Sites Reservoir Project HC Conveyance Facilities – Revised 30% Design Basis of Estimate

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Sites Project Authority

Sites Reservoir Project HC Conveyance Facilities
May 2, 2025

Revised 30% Basis of Estimate

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Executive Summary

Project Overview

The Sites Reservoir Project consists of a large reservoir, ancillary roads, and conveyance facilities. The Sites Project Authority (Authority) decided to segregate the design of these facilities into an HR (Segment H Reservoir) segment that is responsible for the design of the main Sites Reservoir (reservoir) and reservoir features, including Golden Gate Dam, Sites Dam, nine saddle dams, an inlet/outlet (I/O) tunnel south of Golden Gate Dam, as well as relocation of roads displaced by the reservoir. The other segment is known as the HC (Segment H Conveyance) segment and consists of two regulating reservoirs (existing Funks Reservoir and new Terminal Regulating Reservoir), two pumping/generating plants (PGPs), large-diameter pipelines from each PGP to the I/O tunnel, 230-kilovolt (kV) overhead transmission lines, substations and switchyards, a 13.8-kV overhead distribution line, and a large-diameter pipeline to convey water from the Tehama-Colusa Canal (TCC) to the Colusa Basin Drain near Dunnigan, California. Descriptions of each facility are provided in Section 1 and an overall site plan of the project area is provided on Figure ES-1.

Overall Costs

Table ES-1 provides the project's cost estimate classification and who prepared the estimate and when.

Table ES-2 provides a summary of the HC cost estimates as updated in April 2025. This updated estimate includes changes implemented during the March 2025 Value Planning effort; these changes are described in Appendix A. The estimate also includes design and construction contingencies, listed in Appendix B and described further in Section 3.7. The cost estimate does not include non-contract costs which are developed by others. The costs are tied to March 2024 labor and construction costs. Table ES-3 provides the overall cost accuracy ranges.

The cost estimates have been prepared for guidance in project evaluation and implementation from the information available at the time of the estimate. The final costs of the project will depend on actual labor and material costs, competitive market conditions, final project costs, the implementation schedule, and other variable factors. As a result, the final project costs will vary from the estimate presented herein. Refer to Appendix C for a description of the cost classification. Refer to Appendices D through R for the detailed cost estimates.

Table ES-1. Cost Estimate Information

Estimate Classification:	Class 3
Requested By:	Sites Project Authority
Estimated By:	Jacobs
Estimate Date:	April 28, 2025

Purpose of Estimate

The purpose of this estimate of construction costs is to establish an engineer's Opinion of Probable Construction Cost (OPCC) at a 30% level of design development.

Figure ES-1. Project Area Site Plan

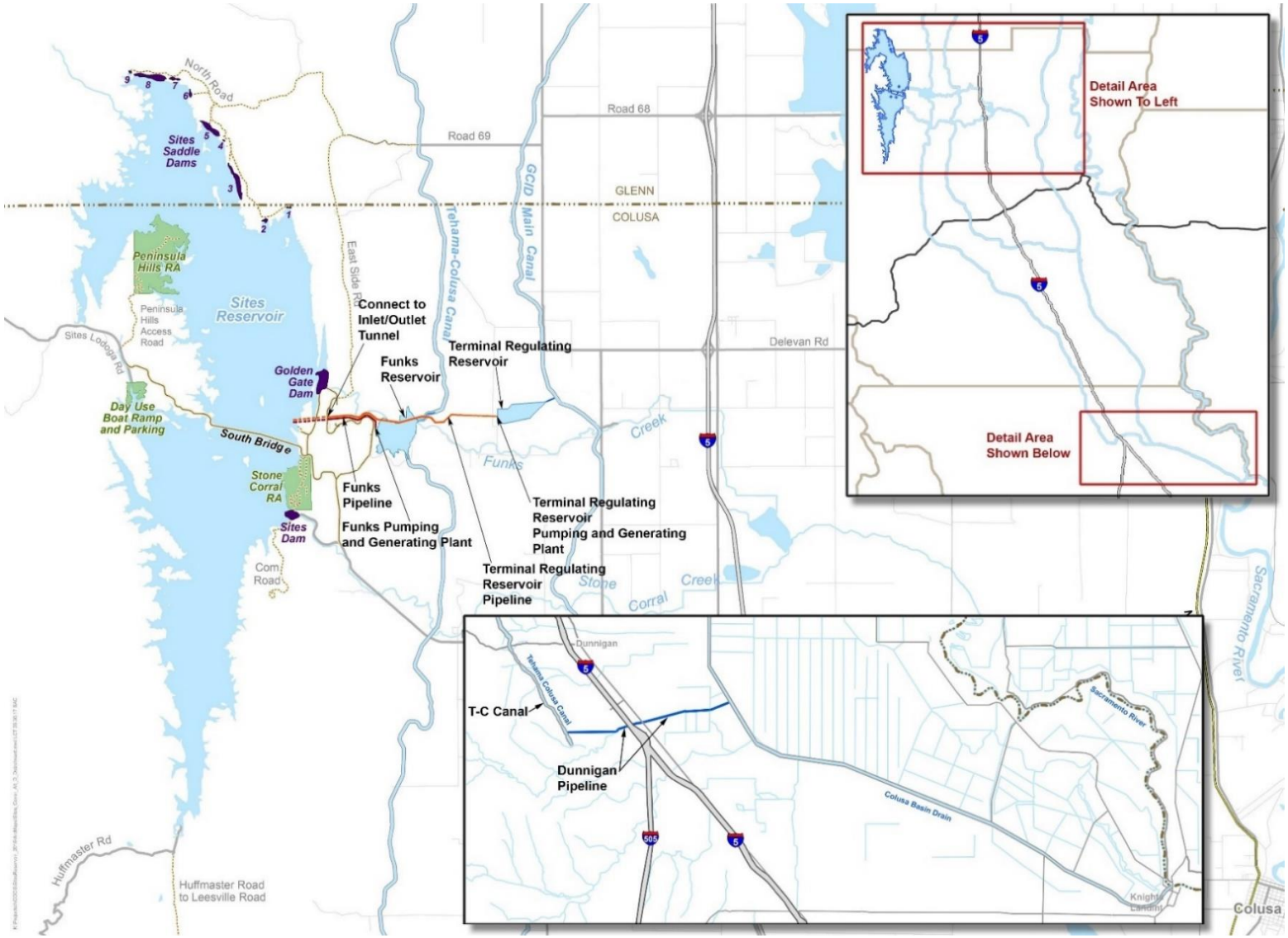

Table ES-2. Overall Costs

Overall Costs Estimate Revision and Cost

Bid Package	Description	Date Completed	Date Updated	Total Project Costs
1	Funks, TRR, Environmental Pipelines	June 3, 2014	April 9, 2025	**$551,400,000**
2	Funks PGP	May 29, 2024	April 17, 2025	**$258,700,000**
3	Funks Reservoir	June 4, 2024	April 18, 2025	**$52,710,000**
4	TRR	June 10, 2024	April 14, 2025	**$247,170,000**
5	TRR PGP	June 12, 2024	April 17, 2025	**$241,600,000**
6	PG&E Point of Interconnection Switchyard	June 12, 2024	April 29,2025	**$46,070,000**
7	230-kV Transmission	June 3, 2024	April 29, 2025	**$37,700,000**
8	Electrical Distribution to I/O Tunnel, Sites Dam, and TRR Check Structures	June 10, 2024	April 29, 2025	**$4,770,000**
9	Funks Substation	May 16, 2024	April 29, 2025	**$34,890,000**
10	TRR Electrical Substation/Switchyard	June 10, 2024	April 29,2025	**$48,610,000**
11	Dunnigan Pipeline	May 23, 2024	April 29, 2025	**$215,280,000**
12[a]	TCCA Red Bluff Pumping Plant Improvements	June 10, 2024	April 21, 2025	**$6,430,000**
13[a]	GCID Main Canal System Improvements	June 10, 2024	April 21, 2025	**$7,600,000**
14[a]	Yolo County Road Repairs Access Roads near Dunnigan	June 7, 2024	April 21, 2025	**$2,025,000**
15[a]	MPG Data Networks	June 7, 2024	April 21, 2025	**$4,120,000**
Total				**$1,759,075,000**

[a] Package has not been updated to the 30% design level

GCID = Glen-Colusa Irrigation District
MPG = Maxwell Pumping and Generating
PG&E = Pacific Gas and Electric Company
TCCA = Tehama-Colusa Canal Authority
TRR = Terminal Regulating Reservoir

Table ES-3. Overall Cost Accuracy Ranges

Bid Package	Description	Low Range (-20%)	Total Project Cost	High Range (+30%)
1	Funks, TRR, Environmental Pipelines	$441,120,000	**$551,400,000**	$716,820,000
2	Funks PGP	$206,960,000	**$258,700,000**	$336,310,000
3	Funks Reservoir	$42,170,000	**$52,710,000**	$68,530,000
4	TRR	$197,740,000	**$247,170,000**	$321,330,000
5	TRR PGP	$193,280,000	**$241,600,000**	$314,080,000
6	PG&E Point of Interconnection Switchyard	$36,860,000	**$46,070,000**	$59,900,000
7	230-kV Transmission	$30,160,000	**$37,700,000**	$49,010,000
8	Electrical Distribution to I/O Tunnel, Sites Dam, and TRR Check Structures	$3,820,000	**$4,770,000**	$6,210,000
9	Funks Substation	$27,920,000	**$34,890,000**	$45,360,000
10	TRR Electrical Substation/Switchyard	$38,890,000	**$48,610,000**	$63,200,000
11	Dunnigan Pipeline	$172,230,000	**$215,280,000**	$279,870,000
12[a]	TCCA Red Bluff Pumping Plant Improvements	$4,510,000	**$6,430,000**	$9,650,000
13[a]	GCID Main Canal System Improvements	$5,320,000	**$7,600,000**	$11,400,000
14[a]	Yolo County Road Repairs Access Roads near Dunnigan	$1,420,000	**$2,025,000**	$3,040,000
15[a]	MPG Data Networks	$2,890,000	**$4,120,000**	$6,180,000
Total		**$1,405,290,000**	**$1,759,075,000**	**$2,290,890,000**

[a] Estimates have an accuracy range of -30% to + 50%

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Acronyms and Abbreviations

°F	degree(s) Fahrenheit
AACE International	Association for the Advancement of Cost Engineering International
ASD	adjustable speed drive
CBD	Colusa Basin Drain
cfs	cubic foot (feet) per second
CIP	cast-in-place
CLSM	controlled low-strength material
CMAR	construction manager at risk
CMU	concrete masonry unit
CR	County Road
DSOD	California Division of Safety of Dams
GCID	Glen-Colusa Irrigation District
HC	Segment H Conveyance; design led by Jacobs
hp	horsepower
HR	Segment H Reservoir; design led by AECOM
HVAC	heating, ventilation, and air conditioning
HX	heat exchanger
I/O	inlet/outlet
kV	kilovolt(s)
MPG	Maxwell Pumping and Generating
MW	megawatt(s)
NFPA	National Fire Protection Association
OPCC	Opinion of Probable Construction Cost
PG&E	Pacific Gas and Electric Company
PGP	Pumping and Generating Plant
POI	Point of Interconnection
project	Sites Reservoir Project

reservoir	Sites Reservoir
TCC	Tehama-Colusa Canal
TCCA	Tehama-Colusa Canal Authority
TRR	Terminal Regulating Reservoir
V	volt(s)
WSE	water surface elevation

1. Facility Descriptions

The Sites Reservoir Project consists of a large reservoir, ancillary roads, and conveyance facilities. The Sites Project Authority decided to segregate the design of these facilities into an HR (Segment H Reservoir) segment that is responsible for the design of the main Sites Reservoir (reservoir) and reservoir features, including Golden Gate Dam, Sites Dam, nine saddle dams, an inlet/outlet (I/O) tunnel south of Golden Gate Dam, as well as relocation of roads displaced by the reservoir. The other segment is known as the HC (Segment H Conveyance) segment and consists of two regulating reservoirs (existing Funks Reservoir and new Terminal Regulating Reservoir [TRR]), two pumping/generating plants (PGPs), large-diameter pipelines from each PGP to the I/O tunnel, 230-kilovolt (kV) overhead transmission lines, substations and switchyards, a 13.8-kV overhead distribution line, and a large-diameter pipeline to convey water from the Tehama-Colusa Canal (TCC) to the Colusa Basin Drain near Dunnigan, California.

The conveyance features included in the conveyance cost estimating effort are listed as follows and in the sequence the cost estimates were grouped and submitted to the client. A site layout of the project features, excluding features from Package 7, and Packages 12 through 15, is found on Figure 1-1, and a site layout of Package 7 is found on Figure 1-2.

- PACKAGES:
  - PACKAGE 1: Funks/TRR/Environmental Water Pipelines
    - Funks Pipeline
    - TRR Pipelines
    - Environmental Water Pipeline
    - Environmental Water Pipeline Dissipation Structure
    - Valve Vault
    - Flow Meter Vault
  - PACKAGE 2: Funks PGP
    - Funks Pumping Plant and Pumping Plant Electrical Room
    - Funks Emergency Dissipation Structure
    - Funks Generating Plant
    - Funks Switchgear Building
    - Funks Chiller Yard
    - Funks Heating, Ventilation, and Air Conditioning (HVAC) Building
    - Funks Fire Water Tank
    - Funks Fire Pumping Plant
    - Funks Surge Control System
    - Admin and Operations Building
    - Maintenance and Storage Building
  - PACKAGE 3: Funks Reservoir
  - PACKAGE 4: TRR
  - PACKAGE 5: TRR PGP
    - TRR Pumping Plant and Pumping Plant Electrical Room
    - TRR Generating Plant
    - TRR Energy Dissipation Structure
    - TRR Switchgear Building

    - TRR Chiller Yard
    - TRR HVAC Building
    - TRR Fire Water Tank
    - TRR Fire Water Pumping Plant
    - TRR Surge Control System
    - Check Structures 1, 2, 3, and 4
    - Maxwell Pumping and Generating (MPG) Access Roads
- PACKAGE 6: Pacific Gas and Electric Company (PG&E) Point of Interconnection (POI) Switchyard
- PACKAGE 7: 230-kV Transmission
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- PACKAGE 9: Funks Substation
- PACKAGE 10: TRR Electrical Substation/Switchyard
- PACKAGE 11: Dunnigan Pipeline
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    - TCC Inlet Structure
    - Colusa Basin Drain (CBD) Discharge Structure
- PACKAGE 12: Tehama-Colusa Canal Authority (TCCA) Red Bluff Pumping Plant Improvements
- PACKAGE 13: Glenn-Colusa Irrigation District (GCID) Main Canal System Improvements
- PACKAGE 14: Yolo County Road Repairs Access Roads near Dunnigan
- PACKAGE 15: MPG Data Networks

It should be noted that packages 12 and 13 are at a 10% design and packages 14 and 15 are at less than a 10% design. These cost estimates are provided for information but are at a Class IV or Class V level.

Figure 1-1. MPG Project Layout

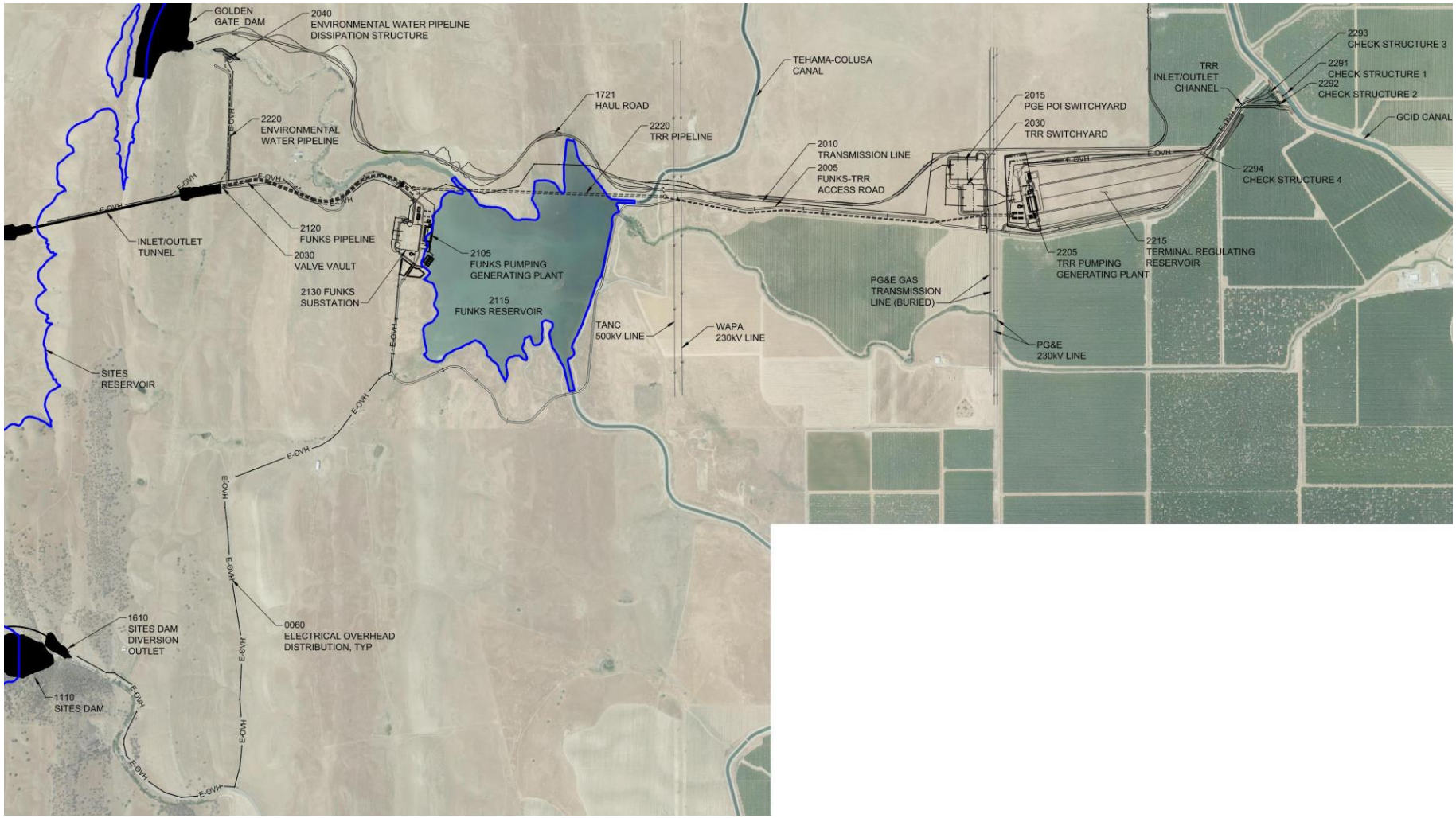
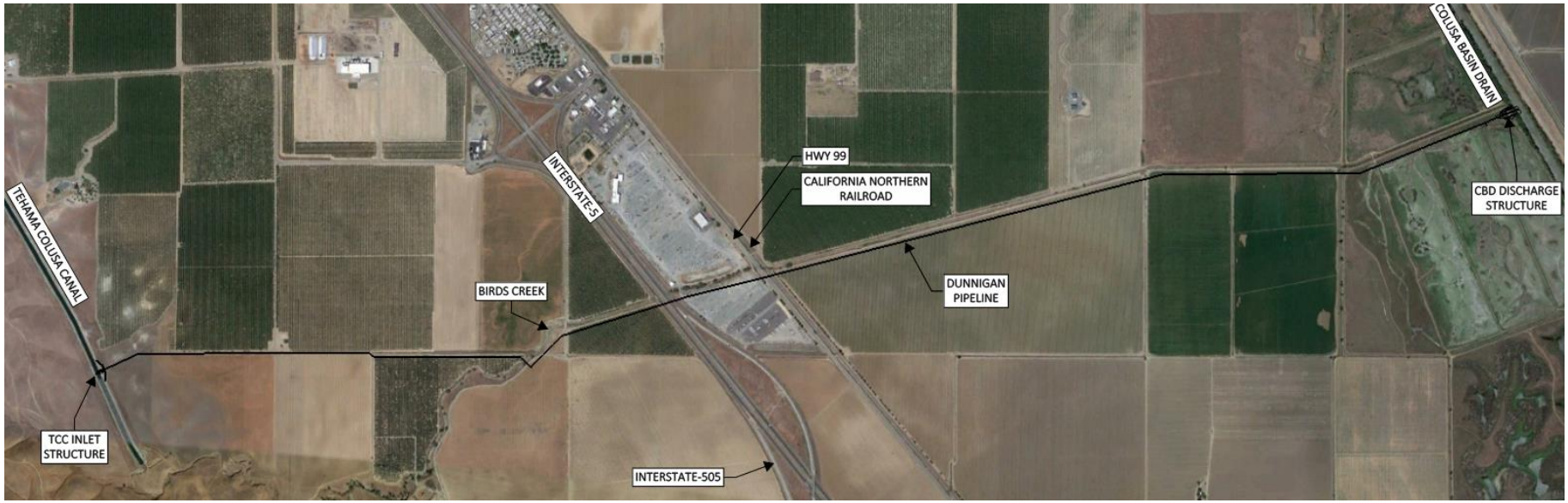


Figure 1-2. Dunnigan Site Layout



1.1 Package 1: Funks/TRR/Environmental Pipelines

1.1.1 Funks Pipelines

The Funks Pipelines consist of two parallel, 144-inch-inside-diameter welded-steel pipelines used to convey water between the Funks PGP and Sites Reservoir at flow ranges described in Table 1-1. The pipelines are referred to as Funks Pipeline (North) and Funks Pipeline (South). These pipelines will connect from the piping manifold at Funks PGP to the proposed 18.5-foot-inside-diameter tunnel connected to the Site Reservoir inlet/outlet structure. From the connection, the pipelines generally run east in parallel with the TRR dual pipelines. The Funks Pipelines diverge from the TRR Pipelines immediately west of Funks Reservoir and run south to the Funks PGP. The approximate length of each pipeline is 4,700 feet.

1.1.2 TRR Pipelines

The TRR Pipelines consist of two parallel, 132-inch-inside-diameter (reduced from the 144-inch-diameter piping shown in the drawings as part of the 2025 Value Planning effort) welded-steel pipelines used to convey water between the TRR PGP and Sites Reservoir at flow ranges described in Table 1-2. The pipelines are referred to as TRR Pipeline (North) and TRR Pipeline (South). These pipelines will connect from the piping manifold at TRR PGP to the proposed 17-foot-inside-diameter tunnel connected to the Sites Reservoir I/O structure. The approximate length of each pipeline is 16,100 feet.

There are two locations where the TRR Pipelines will be installed by tunneling methods: the first crossing is approximately 4,830 feet in length and tunnels under Funks Creek, Funks Reservoir, the ridge on the east side of Funks Reservoir, and the TCC. The second crossing is approximately 460 feet in length and tunnels under a PG&E corridor consisting of two PG&E overhead transmission power lines, and two underground gas transmission lines sized 24 inches in diameter and 36 inches in diameter. The corridor is located on the west side of the TRR.

1.1.3 Environmental Water Pipeline and Energy Dissipation Structure

Just downstream of the piping manifold that connects the TRR Pipelines to the Sites Reservoir inlet/outlet structure, there is a 42-inch-diameter environmental water pipeline that is approximately 2,500 feet long. The pipeline starts from a tee off the TRR Pipeline (North) that is located in the valve vault and discharges into Funks Creek. The capacity of this pipeline is 200 cubic feet per second (cfs); however, most of the time discharge will be limited to between 10 and 100 cfs. This will require the use of three sleeve valves to control flow throughout the anticipated range of flows. This pipeline is not used for construction purposes but is a long-term solution to provide water to Funks Creek just downstream of the proposed Golden Gate Dam.

At the downstream end of the environmental water pipeline, there will be an energy dissipation structure to reduce flow velocity and energy before entering Funks Creek. The dissipation structure will consist of the following:

- Two 24-inch-diameter pipelines that tee off the environmental water pipeline and each include a 16-inch by 14-inch sleeve valve for flow control and a stilling well to dissipate energy before entering Funks Creek.
- One 42-inch-diameter pipeline that includes a 34-inch by 30-inch vertical sleeve valve for flow control and a stilling well to dissipate energy before entering Funks Creek.

1.1.4 Valve Vault and Maxwell Intertie

The valve vault is a reinforced-concrete structure located at the connection of the environmental water pipeline to the TRR (North) Pipeline. The vault will be entirely below grade with hatch access. The structure will house the isolation valves located on TRR Pipelines, Funks Pipelines, and the environmental water pipeline as well as the Maxwell Intertie. The purpose of this vault is to shut off flows in all five pipelines during inspections and maintenance. The Maxwell Intertie uses valving to provide the transfer of water between the Funks Pipelines (that is, the TCC and Funks Reservoir) and the TRR Pipelines (that is, the GCID Main Canal and the TRR). The size of the vault is approximately 53 feet long by 111 feet wide.

The Maxwell Intertie is sized to convey 1,050 cfs and consists of two 78-inch-diameter pipe spools and isolation valves that connect the TRR Pipeline (South) and Funks Pipeline (North). This allows the transfer of water between the TCCA system and the GCID system without Sites Reservoir.

1.1.5 Flow Meter Vault

The flow meter vault is a reinforced-concrete structure located west of the Funks PGP. The vault will house bidirectional flow meters that monitor flow rates in the TRR and Funks Pipelines in any given flow condition, pumping, or gravity. The flow meter vault will be entirely below grade with hatch access. The vault includes ultrasonic flow meters that are able to provide accurate flow measurement in both directions. The size of the vault is approximately 31 feet long by 82 feet wide.

1.2 Package 2: Funks PGP and Plant Facilities

The Funks facilities include a PGP that will be used to pump water from Funks Reservoir to Sites Reservoir and hydroelectric turbines that will be used to generate electricity when flow is released from Sites Reservoir to Funks Reservoir and, ultimately, to the Sacramento River. There will be an emergency dissipation structure as part of this PGP facility that will allow releases back to Funks Reservoir as backup to the Funks Generating Plant and to dissipate Sites Reservoir emergency drawdown flows. Other Funks facilities include the Funks Pumping Plant Electrical Building, Electrical Substation, Switchgear Building, Chiller Yard, HVAC Building, Fire Protection System, Surge Control System, and yard piping. The flow meter vault, Administration and Operations Building, and Maintenance and Storage Building are also located within the Funks PGP footprint; however, these facilities should be noted as overall project features. Table 1-1 lists the hydraulic components of the Funks area.

Table 1-1. Funks Reservoir Hydraulic Criteria

Subject	Criteria
Pumping Plant – Max flow	2,100 cfs
Generating Plant – TCC Maximum Flow, Normal Operation	1,000 cfs (1 at 1,000 cfs each)
Generating Plant – Pumped Storage Scheme Maximum Flow	2,400 (2 at 1,200 cfs each)
Emergency Dissipation Structure – TCC Maximum Flow, Normal Operation	1,000 cfs
Emergency Dissipation Structure – Emergency Drawdown Conditions	Initial Max: 8,200 cfs (4,100 cfs per pipe) Design Max: 8,660 cfs (4,330 cfs per pipe)
WSE Range – Sites Reservoir – Normal Operations	340–500 feet
WSE Range – Emergency Drawdown Conditions	473.2–500 feet

Subject	Criteria
WSE Range – Funks Reservoir	197–205 feet
Dissipation Head Range	126–280 feet

WSE = water surface elevation

1.2.1 Funks Pumping Plant

The cast-in-place (CIP) concrete pumping plant structure will be a primarily below-grade structure with an above-grade electrical room. The below-grade portion consist of 12 pumps in a single row, feeding two 144-inch-diameter Funks Pipelines with 6 pumps per pipe. Each pump has a capacity to pump up to 175 cfs for a total of 1,050 cfs in each 144-inch-diameter Funks Pipeline. For the 30% design, each pump motor was sized to pump up to 8,000 horsepower (hp). Because of the large head fluctuation in the Sites Reservoir levels and resulting pumping heads, all pumps will be controlled by adjustable speed drives (ASDs) to adjust to the variable pumping heads, while staying within the pump operating range and efficiency. In addition, each pump will be equipped with a butterfly valve, check valve, and air valve, for isolation, flow monitoring, and air release.

1.2.2 Funks Pumping Plant – Electrical Building

An electrical building located on top of the pumping plant structure provides environmental and access control to the pump motor ASDs and ancillary equipment for the pumping plant. The building also provides physical protection of this equipment. The building size is about 50 feet wide by 280 feet in length. This building will be placed on top of the pumping unit intakes to save space and be close to the pumping units. The electrical building will be constructed with solid grouted concrete masonry unit (CMU) walls. CMU walls were selected to provide a durable vandal-resistant exterior wall surface.

1.2.3 Funks Generating Plant

The CIP concrete turbine generating structure will consists of two generating units that will include 20-megawatt (MW) turbines (1,200 cfs at 256-foot head), one for each 144-inch-diameter Funks Pipeline entering the plant. The turbines are anticipated to be horizontal Francis style and will discharge water into a draft tube before the water flows into Funks Reservoir. The draft tube discharges are submerged so the turbines will be in an underground structure with a roof. Drainage and dewatering sumps will be connected to the draft tubes that extend up to the deck level to provide, after sealing with stop logs, full dewatering of the unit for inspection purposes. Ninety-inch turbine inlet ball valves will be installed to provide isolation and backup shutoff in case of wicket gate failure.

The structure will include a removable roof hatch to facilitate the removal of the turbines, generators, large valves, and other equipment with a proposed 100-ton above-grade gantry crane.

The Funks Generator Plant will need to be updated at 60% design to mirror the TRR Generator Plant to account for additional HVAC requirements. Forced ventilation will be the primary HVAC system for the generating plant. There is no control room or other area that will require additional HVAC measures.

1.2.4 Funks Emergency Energy Dissipator

The CIP concrete emergency dissipation structure was designed for two purposes: (1) to discharge flow to the TCC when the generating plant is nonoperational, and (2) to discharge flow to meet the emergency

drawdown criteria established with the California Division of Safety of Dams (DSOD) for the dams that form Sites Reservoir.

The two 144-inch-diameter Funks Pipelines will continue past the generating plant and each bifurcate for a total of four 84-inch-diameter pipelines before entering the dissipation structure. The emergency dissipation structure includes four 84-inch fixed-cone valves to dissipate energy before water enters the reservoir. The intent of this selection is to allow flexibility to remove valve trains as the emergency drawdown flow is potentially reduced. Each valve train consists of an 84-inch triple offset ball valve, 84-inch flexible coupling and harness, 12-inch combination air-release/vacuum-relief valve, 8-inch bypass line, and 84-inch fixed-cone valve.

1.2.5 Funks Switchgear Building

The Switchgear Building is planned to house electrical equipment for medium- and low-voltage distribution at Funks PGP. The Funks area buildings and facilities will receive power from the 230-kV Funks Electrical Substation. Two three-winding substation transformers will provide redundant connections between the Switchgear Building and the two 230-kV transmission lines. The Switchgear Building will receive power at 13.8 kV and distribute this power to the following facilities:

1. Generating plant
2. Electrical overhead line to the Sites Reservoir I/O facility and environmental pipeline energy dissipation structure
3. Electrical overhead line to the Sites Dam facility
4. The step-down transformer that serves the Administration and Operations Building and the Maintenance and Storage Building

The Switchgear Building also has step-down transformers for 480 volts (V) power distribution to additional Funks plant facilities.

1.2.6 Central Chilled Water Plant (Funks Chiller Yard and Funks HVAC Building)

The HVAC Building and Chiller Yard are required to provide cooling for the Administration and Operations Building, Maintenance and Storage Building, Funks PGP Electrical Room, and Switchgear Building -year round. The Central Chilled Water Plant will consist of the Chiller Yard and the HVAC Building.

Four air-cooled chillers will be located at the Chiller Yard. Pumps, chemical treatment, heat exchangers, and other equipment related to generating the cooling water loop for ASDs will be in the HVAC Building. The HVAC Building will be constructed with solid grouted CMU walls. Lateral support of the HVAC Building will be provided by steel roof decking and CMU shear walls.

The Central Chilled Water Plant will provide chilled water to the primary chilled water loop with a supply water temperature of 42 degrees Fahrenheit (°F). The primary chilled water loop will circulate between chillers and the heat exchanger (HEX) in the HVAC Building. A secondary chilled water loop will circulate chilled water from energy transfer station to the end uses.

1.2.7 Funks Fire Water Tank and Fire Water Pumping Plant

The project fire protection system consists of a dedicated packaged fire pump system and a fire water storage tank.

The water supply for the required building fire flow and fire suppression systems will be an above-grade steel tank constructed and installed in accordance with National Fire Protection Association (NFPA) 22. The minimum required storage volume is 240,000 gallons, and at this time is assumed to be filled with well water.

A dedicated packaged fire pump system will be provided to meet the various fire flow demands at the Funks site. The packaged system will include a single electric-driven fire pump, along with a jockey pump for system pressure maintenance, tamper switches, test headers, and all piping and valves required for installation and operation by NFPA 20. In addition, the packaged system will be provided in a weatherproof enclosure designed for the project site conditions.

The water supply and therefore the facilities for the water supply for the fire water system have not been decided upon or designed and will be part of the 60% design and construction cost estimate.

1.2.8 Funks Surge Control System

The Funks surge control system consists of eight 52,500-gallon surge tanks (four surge tanks for each 144-inch-diameter Funks pipe). The surge tanks are connected to the 144-inch-diameter Funks pipe via branch pipelines. The surge control system includes surge tank level control enclosures (one for each tank, located next to the tank) and air compressors (located in the Maintenance and Storage Building).

1.2.9 Administration and Operations Building

The Administration and Operations Building is located slightly northwest of the Funks PGP and contains the following spaces:

- Offices (seven)
- Conference room with space for up to 20 people
- Control room with space for two operators
- Storage room
- Electrical and uninterruptible power supply room
- Interconnection room
- Communication and control equipment room
- Kitchenette
- Mechanical room
- Single-occupant restrooms as required by code

The Administration and Operations Building will be constructed above ground with solid grouted CMU walls. Lateral support of the building will be provided by steel roof decking and CMU shear walls. The building will be supported on a concrete slab-on-grade with continuous footings below CMU walls. Roof framing will consist of double pitch open web steel joists to provide a gable-style roof. Roof overhangs will be provided around the roof perimeter.

The Administration and Operations Building will be fully air conditioned throughout.

1.2.10 Maintenance and Storage Building

The Maintenance and Storage Building is located slightly northwest of the Funks PGP and contains the following spaces:

- Truck maintenance room with drive-in maintenance bay sized for a pickup truck
- Storage room with access from truck maintenance room
- Open storage with drive-in bay sized to accommodate a crane truck, and space for compressors
- Kitchenette adjacent to open storage room
- Single-occupant restrooms as required by code
- Storage closet adjacent to open storage room
- Mechanical room

The Maintenance and Storage Building will be constructed with solid grouted CMU walls. Lateral support of the building will be provided by steel roof decking and CMU shear walls. The building will be supported on a concrete slab-on-grade with continuous footings below CMU walls. Roof framing will consist of double pitch open web steel joists to provide a gable-style roof. Roof overhangs will be provided around the roof perimeter.

The Maintenance and Storage Building will be unconditioned with the exception of a restroom and kitchenette that will be insulated and conditioned.

1.3 Package 3: Funks Reservoir

The existing Funks Reservoir is an approximately 200-acre regulating reservoir on the TCC that was created in the mid-1970s when Funks Dam was constructed across Funks Creek, located about 1 mile east of the proposed Sites Reservoir. There are check structures on the TCC just upstream and downstream of the reservoir; therefore, the operational water surface elevation can vary only slightly from the TCC, especially because the reservoir contains no irrigation specific turnouts. The initial volume of the Funks Reservoir was approximately 2,200 acre-feet, but only about 1,100 acre-feet is currently usable storage due to sedimentation.

For this project, the Funks Reservoir will be modified for use as a regulating reservoir for the project. The hydroelectric turbines in the Funks Generating Plant will be used to generate electricity when flow is released from Sites Reservoir to Funks Reservoir and, ultimately, to the Sacramento River. There will be an energy dissipation/emergency drawdown structure as part of the Funks PGP facility that will allow releases back to Funks Reservoir as backup to the generating plant and to dissipate Sites Reservoir emergency drawdown flows.

Modifications to the reservoir will be permanent and temporary. The permanent features are excavation and sediment removal within the reservoir to restore its designed capacity and construction of approach channels for the PGP facilities. Excavation plans include removal of material by both conventional excavation and hydraulic dredging. The grading plan developed for the reservoir excavation and sediment removal will result in the removal of approximately 800,000 cubic yards of in situ (bank) material.

Temporary features of the design include a rockfill cofferdam that will be constructed within the reservoir to facilitate construction of the approach channels and Funks PGP facilities, in addition to stockpile and impoundment areas around the reservoir. Once the Funks PGP approach channel and Funks PGP facilities are complete, the cofferdam will be removed.

1.4 Package 4: Terminal Regulating Reservoir

TRR is a proposed new regulating reservoir that will be located between the TRR I/O channel and the TRR PGP to temporarily store water during the conveyance either up to Sites Reservoir from the GCID canal or down from Sites Reservoir during hydropower generation or discharge back into the GCID canal. The reservoir will require a capacity of approximately 600 acre-feet to store 1,800 cfs of flow over a 4-hour period. This storage capacity requirement results in a reservoir with a bottom elevation at approximately 114 feet and a water surface elevation of 124 feet.

The TRR involves the excavation of approximately 5.5 million cubic yards of material. The lining system that is shown in the drawings was removed from the cost estimate as part of the 2025 Value Planning effort.

1.5 Package 5: TRR PGP and Plant Facilities

The TRR facilities include a PGP that will be used to pump water from TRR to the I/O tunnel leading to Sites Reservoir and the hydroelectric turbines that will be used to generate electricity when flow is released from Sites Reservoir to the TRR and, ultimately, to the GCID canal. There will be an energy dissipation structure as part of this PGP facility that will allow releases back to TRR as backup to the TRR Generating Plant. Other TRR facilities include the TRR Pumping Plant Electrical Room, Electrical Substation and Switchyard, Switchgear Building, Chiller Yard, HVAC Building, Fire Protection System, Surge Control System, and yard piping. The PG&E POI Switchyard is also located within the TRR PGP footprint; however, the Switchyard should be noted as an overall project feature. Table 1-2 lists the hydraulic components of the TRR area.

Table 1-2. Terminal Regulating Reservoir Hydraulic Criteria

Subject	Criteria
Pumping Plant	1,800 cfs (150 cfs per pump)
Generating Plant – TCC Maximum Flow, Normal Operation	1,000 cfs (2 at 500 cfs each) release flow into GCID canal limited to 900 cfs
Generating Plant – Pumped Storage Scheme Maximum Flow	1,200 cfs (2 at 600 cfs each)
Energy Dissipation Structure – Maximum Flow Range	900–1,200 cfs
WSE Range - Sites Reservoir – Normal Operation	340–500 feet
WSE Range - TRR	113–124 feet
Dissipation Head Range	205–366 feet

1.5.1 TRR Pumping Plant

The reinforced-concrete pumping plant structure will be a primarily below-grade structure with an above-grade electrical room. The below-grade portion consists of 12 pumps in a single row, feeding two 132-inch-diameter TRR Pipelines with 6 pumps per pipe. Each pump has a capacity to pump up to 150 cfs for a total of 900 cfs in each TRR Pipeline. For the 30% design, each pump motor was sized to pump up to 9,500 hp. Because of the large head fluctuation in the Sites Reservoir levels and resulting pumping heads, all pumps will be controlled by ASDs to adjust to the variable pumping heads, while staying within the pump operating range and efficiency. In addition, each pump will be equipped with a butterfly valve, check valve, and air valve, for isolation, flow monitoring, and air release.

1.5.2 TRR Pumping Plant – Electrical Building

An electrical building located on top of the pumping plant structure provides environmental and access control to the pump motor ASDs and ancillary equipment for the pumping plant. The building also provides physical protection of this equipment. The building size is about 35 feet wide by 270 feet in length. This building will be placed on top of the pumping unit intakes to save space and be close to the pumping units. The electrical building will be constructed with solid grouted CMU walls. CMU walls were selected to provide a durable vandal-resistant exterior wall surface.

1.5.3 TRR Generating Plant

The CIP concrete turbine generating structure will consists of two generating units that will include 11.5-MW turbines (500 cfs at 290-foot head), one for each 132-inch-diameter TRR Pipeline entering the plant. The turbines are anticipated to be horizontal Francis style and will discharge water into a draft tube before the water flows into TRR. The draft tube discharge requires submergence so the turbines will be in an underground structure with a roof. Drainage and dewatering sumps will be connected to the draft tubes that extend up to deck level to provide, after sealing with stop logs, full dewatering of the unit for inspection purposes. Sixty-inch turbine inlet ball valves will be installed to provide isolation and backup shutoff in case of wicket gate failure.

The structure will include a removable roof hatch to facilitate the removal of the turbines, generators, large valves, and other equipment with a proposed 100-ton above-grade gantry crane.

1.5.4 TRR Energy Dissipation Structure

The CIP concrete energy dissipation structure was designed to discharge flow to the TRR when the generating plant is nonoperational. The two 132-inch-diameter pipelines will continue past the generating plant and each bifurcate for a total of four 42-inch-diameter pipelines before entering the dissipation structure. The dissipation structure consists of four 42-inch vertical sleeve valves, to dissipate energy before water enters TRR, and four 48-inch butterfly valves for isolation.

1.5.5 TRR Switchgear Building

The Switchgear Building is planned to house electrical equipment for medium- and low-voltage distribution at TRR. The TRR area buildings and facilities will receive power from the 230-kV TRR Electrical Substation. Two three-winding substation transformers will provide redundant connections between the Switchgear Building and the two 230-kV transmission lines. The Switchgear Building will receive power at 13.8 kV and distribute this power to the generating plant. The Switchgear Building also has step-down transformers for 480-V power distribution to additional TRR plant facilities.

1.5.6 Central Chilled Water Plant (TRR Chiller Yard and TRR HVAC Building)

The HVAC Building and Chiller Yard are required to provide cooling for the TRR PGP Electrical Building and the Switchgear Building year-round. The Central Chilled Water Plant will consist of the Chiller Yard and the HVAC Building.

Four air-cooled chillers will be located at the Chiller Yard. Pumps, chemical treatment, heat exchangers, and other equipment related to generating the cooling water loop for ASDs will be in the HVAC Building. The HVAC Building will be constructed with solid grouted CMU walls. Lateral support of the HVAC Building will be provided by steel roof decking and CMU shear walls.

The Central Chilled Water Plant will provide chilled water to the primary chilled water loop with a supply water temperature of 42°F. The primary chilled water loop will circulate between chillers and the HEX in the HVAC Building. A secondary chilled water loop will circulate chilled water from the HEX to the end uses.

1.5.7 TRR Fire Water Tank and Fire Water Pumping Plant

The project fire protection system consists of a dedicated packaged fire pump system and a fire water storage tank.

The water supply for the required building fire flow and fire suppression systems will be an above-grade steel tank constructed and installed in accordance with NFPA 22. The minimum required storage volume is 240,000 gallons, and at this time is assumed to be filled by well water.

A dedicated packaged fire pump system will be provided to meet the various fire flow demands at the TRR site. The packaged system will include a single electric-driven fire pump, along with a jockey pump for system pressure maintenance, tamper switches, test headers, and all piping and valves required for installation and operation by NFPA 20. In addition, the packaged system will be provided in a weatherproof enclosure designed for the project site conditions.

The water supply and therefore the facilities for the water supply for the fire water system have not been decided or designed and will be part of the 60% design and construction cost estimate.

1.5.8 TRR Surge Control System

The TRR surge control system consists of eight 65,000-gallon surge tanks (four surge tanks for each 144-inch-diameter TRR pipe). The surge tanks are connected to the 132-inch-diameter TRR pipe via branch pipelines. The surge control system includes surge tank level control enclosures (one for each tank, located next to the tank) and air compressors (located in the HVAC Building).

1.5.9 TRR/GCID Canal Check Structures 1 Through 4 and TRR I/O Channel

The TRR is hydraulically connected to the GCID canal via four water control check structures and one I/O channel located to the west of the TRR as follows:

- Check Structure 1 is located in the GCID canal and consists of two 12-foot-wide Lagemann gates and one 8-foot-wide fabricated slide gate.
- Check Structure 2 is located in the outlet channel west of the GCID canal and consists of eight 8-foot-wide bulkhead gates, four 8-foot-wide fabricated slide gates, and a bridge for vehicle access.
- Check Structure 3 is located in the inlet channel west of the GCID canal and consists of sixteen 8-foot-wide bulkhead gates, eight 8-foot-wide fabricated slide gates, and a bridge for vehicle access.
- The I/O channel is located west of the GCID and east of the TRR and will facilitate water conveyance between the existing GCID canal and the TRR under various operation conditions using Check Structures 2, 3, and 4. The channel is approximately .35 mile in length and ranges from 40 to 60 feet in width.
- Check Structure 4 is located in the TRR I/O channel west of the GCID canal and consists of sixteen 8-foot-wide bulkhead gates, eight 8-foot-wide fabricated slide gates, and a bridge for vehicle access.

1.5.10 Access Roads

Access to the Funks site (PGP and Reservoir) is currently accomplished using the operation and maintenance road along the TCC. Access to the proposed TRR site would be via the access to the Funks complex. A new access road will be required that allows larger equipment and year-round access. It is also anticipated that roads will be constructed within the TRR and Funks Pipeline easements, not only to provide access to the pipelines and electrical power transmission lines, but also to act as secondary access roads to the project facilities.

1.6 Package 6: PG&E Point of Interconnection Switchyard

Power for the project will be sourced from the existing 230-kV electrical PG&E transmission lines that run west of the TRR PGP and TRR Electrical Substation and east of the TRR Switchyard. These transmission lines will be connected to provide power for the project, as well as receive generated electrical power from the hydroelectric turbines via a POI switchyard that will be located north of the TRR Switchyard.

1.7 Package 7: 230-kV Transmission Lines

New 230-kV electrical transmission lines will be installed to provide power for the project, as well as receive generated electrical power from the hydroelectric turbines. Power will be received via the PG&E POI Switchyard. 230-kV overhead circuits will connect the POI to the Funks Substation and will require crossing under existing 230-kV Western Area Power Administration transmission lines and 500-kV Transmission Agency of Northern California transmission lines. 230-kV overhead circuits will also connect the POI to the TRR Switchyard then cross under the existing 230-kV PG&E transmission lines to connect the TRR Substation to the TRR Switchyard. In addition to the circuits supplying power to the project, power can be routed back to the existing PG&E transmission lines via the hydroelectric turbines.

1.8 Package 8: 13.8-kV Electrical Overhead Distribution Lines

Electrical overhead distribution will be used to supply power to facilities remote from Funks PGP and TRR PGP. Two 3-phase, 13.8-kV feeders will be sourced from the Funks Switchgear Building. One of these feeders will supply power to the facilities located at Sites Dam. The other feeder will supply power to the Sites Reservoir I/O structure and associated facilities supporting the Funks and TRR Pipelines. An overhead electrical feeder will also be supplied from the TRR Switchgear Building to supply power to the TRR check structures. Power poles will be placed a minimum of 35 feet from the centerline of the closest pipeline.

The overhead electrical line that will supply the Sites Reservoir I/O structure runs alongside the Funks and TRR Pipelines.

The overhead electrical line that will supply the Sites Dam facility will run alongside and cross an existing electrical overhead line. A preliminary investigation of satellite imagery shows the electrical overhead line running west to the unincorporated community of Sites. Due to direction from Sites Authority, further investigation of this electrical overhead line and a determination of the owning utility has been postponed to the 60% design phase.

1.9 Package 9: Funks Electrical Substation

The Funks Electrical Substation is intended to provide the Funks PGP, Sites Reservoir I/O structure, and Sites Dam with their base load and generation electrical power requirements via two fully

redundant -three winding, 230-kV to 13.8-kV transformers connected to the 13.8-kV TRR Switchgear Building.

1.10 Package 10: TRR Electrical Substation and Switchyard

The TRR Electrical Substation and Switchyard are intended to route and provide the TRR PGP and TRR check structures with their base load and generation electrical power requirements via two fully redundant three-winding, 230-kV to 13.8-kV transformers connected to the 13.8-kV TRR Switchgear Building.

Unlike the Funks layout, where the Funks Switchyard is located within the Funks Substation, the TRR Switchyard and Substation have been separated into their own facilities due to power demands and spatial issues. The TRR substation was placed on the east side of the existing PG&E transmission lines because the 230-kV to 13.8-kV transformers must be within a certain distance to the power demanded at the TRR PGP. However, due to limited space in this area and it was determined the TRR Switchyard will be placed on the west side of the PG&E lines.

1.11 Package 11: Dunnigan Pipeline

The Dunnigan Pipeline and facilities consist of a large-diameter transmission pipeline, an inlet structure at the TCC, and a discharge structure at the CBD.

1.11.1 Dunnigan Pipeline

The Dunnigan Pipeline consists of a 10.5-foot-diameter pipeline, approximately 20,000 feet (3.8 miles) long that will be used to release water from the TCC to the CBD. The concept is to release flow from Sites Reservoir to Funks Reservoir, where the flow will then go south about 40 miles to near the end of the TCC. At this point, flow will be diverted into the Dunnigan Pipeline, where flow will go to the CBD, which flows to the Sacramento River.

1.11.2 Tehama-Colusa Canal Inlet Structure

The TCC inlet structure is a reinforced-concrete structure that will be used to divert water from the existing concrete-lined TCC into the Dunnigan Pipeline. The structure will be placed along the east bank of the canal and conform to the existing slope of the canal.

The inlet structure will include four 8-foot by 8-foot slide gates. Each gate will be electrically operated and have a flow capacity range of 25 to 250 cfs. Temporary bulkhead gates placed in front of the slide gates will be used during times of maintenance or inspections. A trash rack will be provided at the upstream end of the inlet structure and removable grating will be provided at the ground level surface of the structure. The top of the structure is designed only for personnel loads, so the structure is protected from vehicle traffic by a vehicle guardrail.

In addition, a portion of the existing maintenance road along the TCC will need to be reconstructed around the TCC inlet structure.

1.11.3 Colusa Basin Drain Discharge Structure

At the downstream end of the Dunnigan Pipeline, the pipeline will bifurcate into two 84-inch-diameter pipes that will enter the CBD discharge structure. The facility will meter and control flows exiting the Dunnigan Pipeline and entering the CBD using flow meters, full port valves, and vertical sleeve valves. The

structure will dissipate the energy associated with the high pressures in the Dunnigan Pipeline (using two vertical sleeve valves) into stilling wells lined with stainless steel wear plate and transition flows into the low-velocity, unlined CBD while preventing damage to the CBD bed and banks due to erosion or scour. Bulkhead slots will be provided downstream of the stilling wells to allow stop logs or bulkhead gates to be installed to dewater the basins while the CBD contains water.

The structure and its roof will be CIP and made of concrete. The concrete roof will be designed for personnel loads and will be set above the finish grade to provide protection from vehicle traffic. Ladders will be used to access below-grade mechanical appurtenances. Galvanized steel grating sized for personnel loading will be provided over the stilling wells.

1.12 Package 12: TCCA Red Bluff Pumping Plant Improvements

The TCCA Red Bluff Pumping Plant Improvements 10% design construction cost estimate from June 2021 has been updated with current costs. The design was not advanced to a 30% design level. Improvements will include the addition of two 250-cfs pumping units.

1.13 Package 13: GCID Main Canal Improvements

The GCID canal improvement 10% design construction cost estimate from June 2021 has been updated with current costs. The design was not advanced to a 30% design level. Improvements to the GCID Main Canal will include a 3,000-cfs headworks structure just downstream of the Hamilton City Diversion, canal earthwork, and some canal bank gravel road improvements. Potential improvements at the Hamilton City Fish Screen and Pumping Plant are not included.

1.14 Package 14: Yolo County Road Repair near Dunnigan

There are several Yolo County Roads near the Dunnigan Pipeline construction area that will need repair after construction is finished. These include segments of County Road (CR) 7A, CR 8, CR 89A, CR 90, and CR 99W. No design effort has been done on these road segments. An estimate of the level of work required was conducted using Google Earth and Yolo County Road standard cross sections.

1.15 Package 15: Data Communications Network

Redundant overhead and underground fiber optic connections will be provided between PGP sites for high-speed, reliable access to the Internet as well as business, facilities, and control system networks.

Communications between the PGPs and remote sites will be provided by buried fiber optic cable (along proposed pipelines), satellite, or cellular connections for status and control of equipment and/or video surveillance.

Costs have been included for the data communications network installation based on the 30% design.

2. Estimate Classification

This cost estimate prepared is considered a Budget or Class 3 estimate as defined by the Association for the Advancement of Cost Engineering International (AACE International). Refer to Appendix C for more information.

Project feasibility and funding needs must be carefully reviewed before making specific financial decisions to help ensure proper project evaluation and adequate funding. This estimate is based on material, equipment, and labor pricing as of March 2024.

This cost estimate is based on the use of conceptual and stochastic costs and detailed items using separate labor, materials, and equipment costs. The estimate uses parametric costs where design information or details are insufficient to allow a detailed item method. Quotations, allowances, and other costs are as described in Section 3.

3. Basis of Estimate

3.1 Estimate Methodology

This cost estimate is considered a bottom rolled up type estimate with cost items and breakdowns of labor, materials, and equipment.

For the development of this cost estimate, there may be systems that have yet to be defined enough on which to base a scope of work for estimating purposes. Jacobs estimating provides parametric costing based on a unit of measurement (that is, cost per square foot or cost per unit). The cost is assigned per unit and typically is developed by averaging similar projects and analysis of historical costs. Using this approach, estimators strive to generate a basic system design fitting the parameters of the structure and its proposed function.

Finally, pricing is geographically adjusted to reflect local labor and material rates and job site conditions and requirements. As the design process progresses and the details have increased, the parametric costing can be replaced with a detailed takeoff and estimated accordingly.

3.2 Estimate Major Assumptions

The estimate assumes the work will be done using the traditional design-bid-build method on a competitive bid basis and the contractor will have a reasonable amount of time to complete the work. All contractors are equal, with a reasonable project schedule, no overtime, performing the work under a single contract, and no liquidated damages.

The PGP pumps and turbine generators are assumed to be owner-purchased contractor-installed. The estimate includes an allowance for freight and 6% contractor markup on this equipment. The installation of equipment includes full contractor markups.

This estimate should be evaluated for market changes after 90 days of the issue date. It is assumed that much of the fabricated equipment will be shipped from the mainland United States.

General conditions were determined by providing assumed detailed costs based on an assumed construction duration. General conditions include items for supervision, trailers, utilities, and other indirect construction costs needed to supervise the project. A standard 10% general conditions markup was used for Packages 11 and 12 that are at less than 10% design level.

The following is a list of standard materials costs used for all estimates:

- Controlled low-strength material (CLSM) is assumed to be mixed onsite using onsite materials
  - $75 per cubic yard allowance
- Steel pipe:
  - 42-inch-diameter pipe (.25-inch thickness) - $216 per linear foot
  - 132-inch-diameter pipe (.688-inch thickness) - $1,932 per linear foot
  - 144-inch-diameter pipe (.688-inch thickness) - $2,035 per linear foot
- Trench dewatering allowance is based on square foot area of trench bottom with an allowance of $3 per square foot.

- Trench excavation assumptions:
  - 10% of the trenching will require rock excavation.
  - 25% of the trenching will require 18 inches over excavation with imported granular fill for unsuitable material
- In general, all exported excavated materials will be disposed of onsite within 10 miles without dump fees.
- Structural concrete can be purchased and delivered or batched onsite for a unit cost of $220 per cubic yard.
- Reinforcing steel will be purchased and delivered for a unit price of $1,500 per ton ($0.75 per pound).

3.3 Estimate Exclusions

The cost estimate excludes the following costs:

- Remediation of hazardous materials
- Material adjustment allowances above and beyond what is included at the time of the cost estimate

3.4 Project Delivery and Methodology

It is understood that some of the project facilities will be procured using the construction manager at risk (CMAR) method. The CMAR contractor will contract directly with the owner. The CMAR may self-perform or bid out packages of work. Other project facilities such as the Dunnigan Pipeline will be procured using a traditional design, bid, build format. The estimate for all project facilities has been prepared using a design, bid, build approach.

3.4.1 Summary of Cost Progression

For background and comparison, the cost summary in Table 3-1 starts with the 2021 feasibility cost in 2021 dollars at $0.84 billion, then escalated to 2024 dollars (1.22 inflation factor), which brings the estimate to $1.02 billion. Design progression includes quantity changes, unit price changes, and scope changes (1.67 multiplier), which brings the total to $1.40 billion. For example, design progression quantity changes include having an energy dissipater increasing in size for releasing emergency flows set by DSOD at Funks Reservoir (that is, not due to escalation); and scope changes include the addition of seismic joints on the TRR and Funks Pipelines to meet DSOD requirements, and revising the TRR Pipelines to tunnel under Funks Reservoir.

A design contingency evaluation was performed that resulted in a multiplier of 1.03, bringing the total anticipated HR construction cost to $1.75 billion.

The bottom-line estimate is shown in Table 3-1 with the low and high accuracy range (-20%/+30%).

Table 3-1. Summary of Cost Changes from 2021 to 2024

Estimate Item	Increase (Multiplier/ Factor)	Differential Costs ($B)	Estimate Cost ($B)	Notes
2021 Feasibility Cost Estimate			0.84	Total feasibility construction cost with design and construction

Estimate Item	Increase (Multiplier/ Factor)	Differential Costs ($B)	Estimate Cost ($B)	Notes
				contingency without non-contract costs
Escalation	1.22	0.18	1.02	Based on U.S. Bureau of Reclamation Composite Index
Design Progression	1.67	0.68	1.70	Changes in scope, quantities, and unit rates
Contingency Assessment	1.03	0.05	1.75	Design contingency evaluation (increase from 15% to 18%)
Estimated 30% Total Construction Cost		0.91	1.75	AACE International Class 3 (2024 dollars)
Estimated Range – Low (-20%)			1.41	
Estimated Range – High (+30%)			**2.29**	

3.5 Direct Costs

3.5.1 Labor

The estimate has been adjusted for local area labor rates for Colusa County, based upon Department of Industrial Relations 2024 general prevailing wage rates, which have an expiration date of July 31, 2024.

Labor unit prices reflect a burdened rate, including workers compensation, unemployment taxes, fringe benefits, and medical insurance.

It is assumed labor crews will work 5 days a week, 10 hours a day for all HC facilities except tunneling efforts for the TRR pipelines and Dunnigan Pipeline. For tunneling, the labor crews will work in three 8-hour shifts for 24 hours per day, for 7 days a week.

A subsistence rate of $120 per day has been added as a labor resource incentive for labor competition from other competitive construction projects in the area. Labor subsistence is included in the direct labor wage rates.

3.5.2 Material

Materials pricing is national average pricing as determined by RSMeans or other data sources. Quotes for certain items may have been obtained and included in this estimate. Many quotes given for engineering estimates are budgetary and may not reflect actual contractor pricing.

3.5.3 Subcontracts

It is assumed that general contractors will subcontract a portion of the work. Items listed in the cost estimate as subcontractor include all anticipated markups that a general contractor would receive.

3.5.4 Construction Equipment

Equipment items listed in this cost estimate are for the construction equipment necessary for the installation of the work. Equipment rates in this estimate are assumed to be 100% of 2024 Blue Book value.

3.6 Markups, Taxes, and Other Indirect Costs

Table 3-2 provides the markups, taxes, and other indirect costs assumed for this estimate.

Table 3-2. Markups, Taxes, and Other Indirect Costs

Estimate Summary

Item	Unit	Comments
Subcontractor markups	20.00% to 25.00%	Varies by trade.
Materials sales tax	7.25%	Current sales tax rate for Dunnigan, California.
Mobilization/demobilization	3.00%	
Prime contractor overhead	10.00%	Includes home office and construction site overhead.
Prime contractor profit	6.00%	
Bonds and insurance	2.17%	
Contractor contingency	3.00% to 5.00%	Varies based on construction project type. Electrical lines (transmission and distribution) and all three substations (Funks, TRR, and PG&E POI) include 5.00%; all other HC estimates include 3.00%.
Design contingency	18%	Described in Section 3.7.
Escalation		There is no escalation included in this estimate.
Non-contract costs		There are no non-contract costs in this estimate.

3.7 Design Contingency

The 30% cost estimate includes items, quantities, requirements, and constraints that have not been fully identified or are not fully investigated or designed. In later stages of design, the scope of the project also tends to expand as more detail is developed and regulatory agencies undertake more detailed reviews. To account for the items that have not yet been fully developed and the potential for additional unforeseen site conditions identified during the detailed design phase, a design contingency allowance has been included in the 30% cost estimates. The recommended design contingency normally decreases as the project design advances, more information becomes available, project requirements become better defined, and more design detail is captured in the subtotal of construction costs. This contingency would be fully consumed or released by the completion of the procurement documents.

For the 30% estimate, design contingencies were estimated based on a review of the cost drivers, design basis, identification of risks, and probability of risk. Each design package was evaluated during the design contingency process described as follows.

The design basis of each cost driver was reviewed, risks and parameters were established, the risk cost was estimated, and a probability was assigned. Ultimately the risk cost was multiplied by the probability and the product was carried as a design contingency. The design contingencies are summarized in Table 3-3. Appendix B presents the details of the design contingency development.

Table 3-3. Design Contingencies Summary

Category	30% Estimate Cost	Risk Cost[a]	Probability	Contingency (Factored Risk)	Percent of 30% Estimate
	A	B	C	B × C = D	E/A = F
Funks, TRR, and Environmental Pipelines - CLSM processing	$16,210,000	$16,210,000	55%	$8,915,500	55.0%
Dunnigan Pipeline - CLSM processing	$8,945,000	$8,945,000	53%	$4,752,031	53.1%
TRR PGPs - discharge structure depth	$11,295,000	$3,002,625	58%	$1,751,531	15.5%
Funks PGPs - discharge structure depth	$23,425,000	$6,335,311	67%	$4,223,541	18.0%
Dunnigan Pipeline: Discharge structure - discharge structure depth	$9,550,000	$3,880,000	52%	$2,004,667	21.0%
TRR Pipeline: Tunnels under Funks Reservoir - tunnel	$10,840,000	$2,803,700	72%	$2,009,318	18.5%
TRR Pipeline: Tunnels under PG&E corridor at TRR PGP - tunnel	$7,830,000	$2,803,700	61%	$1,705,584	21.8%
Dunnigan Pipeline: Tunnels at I-5, Highway 99, and Railroad - tunnel	$14,850,000	$5,496,360	65%	$3,572,634	24.1%
Funks and TRR Pipelines - trench width	$38,686,500	$7,171,500	74%	$5,276,175	13.6%
TRR Pipelines - trench width	$37,866,000	$13,149,000	66%	$8,734,693	23.1%
Environmental pipeline - trench width	$4,230,000	$168,000	63%	$105,000	2.5%
Dunnigan Pipeline - trench width	$103,285,000	$2,109,000	70%	$1,476,300	1.4%

Category	30% Estimate Cost	Risk Cost[a]	Probability	Contingency (Factored Risk)	Percent of 30% Estimate
Dunnigan Pipeline - implementing Alternative 2 design	$129,500,000	$129,500,000	50%	$64,750,000	50.0%
WAPA - Crossing WAPA power lines with Sites power lines	$27,740,000	$5,681,820	73%	$4,147,729	15.0%
PG&E POI - location of POI	$27,740,000	$40,000,000	63%	$25,200,000	90.8%
Funks PGP - pump bay size	$4,025,000	$2,011,192	55%	$1,106,156	27.5%
TRR PGP - pump bay size	$7,135,000	$1,645,693	55%	$905,131	12.7%
13.8-kV distribution power lines - electrical lines	$3,247,402	$9,697,500	65%	$6,303,375	194.1%
Funks PGP - water supply	$14,500,000	$14,500,000	80%	$11,600,000	80.0%
TRR PGP - water Supply	$8,900,000	$8,900,000	80%	$7,120,000	80.0%
Funks and TRR Pipelines - Funks/TRR connection manifold	$5,364,490	$1,000,000	71%	$708,333	13.2%
All packages - items not individually captured in this table	$1,442,000,000	$139,025,341	64%	$89,150,000	6.2%
All HC Facilities - Total	**$1,442,000,000**	**$424,035,743**		**$255,517,698**	**18%**

[a] Construction cost before contingencies

The following list provides an example of the process that was repeated for each risk in each category. The example illustrates the design contingency development for widening the trench for the TRR and Funks Pipelines.

1. Design basis – 13.8-kV power lines to be installed overhead.
2. Risk and parameter - Environmental and permitting requirements require 13.8-kV power lines to be installed underground.
3. Cost – Additional cost to install 13.8-kV powerlines underground is $9.7M.
4. Probability – The design team members provided initial blind rankings of probability, a review meeting was conducted, rankings were discussed, and adjustments were made to probability rankings as appropriate by the design team members. The average of the probability rankings was used as the estimated probability. In this example we used a 65% probability of occurring.
5. Contingency (factored risk) - Cost of the risk, $9.7M, was multiplied by the probability of the risk occurring of 65%, and $6.3M was carried as part of the design contingency.

The overall design contingency of 18% resulted from this evaluation, as shown in Table 3-3.

3.8 Contractor Contingency

The contractor contingency is intended to cover unforeseen conditions or changes post contract award. It remains under the control of the owner, separate from the bid award. Contractor contingencies vary from 3% to 5% based on the construction project types. Electrical lines (230-kV transmission and 13.8-kV distribution) and all three substations (Funks, TRR, and PG&E POI) include 5.00%; all other HC estimates include 3.00%.

3.9 Escalation Costs

All costs are based on a Cost Data Date of March 2024. Escalation to the midpoint of construction from March 2024 has not been included; this will be provided by others. Escalation will have a significant effect on project costs and will be accounted for by others in the project's financial model. It will be updated as market conditions change, and escalation risk-sharing will be evaluated during the construction contract preparation.

3.10 Non-Contract Costs

The construction estimate for HC facilities do not include an estimated cost for the non-contract costs required for these facilities. The non-contract costs are being separately estimated by others.
Non-contract costs include:

- Project management
- Development and negotiation
- Planning studies and data collection
- Environmental and cultural monitoring during construction
- Native American agreements and activities
- Advance planning for operations
- Design data collection and reporting – geotechnical
- Services to acquire lands and rights (to be in a separate real estate estimate)
- Relocation services before construction
- Consultant/architecture and engineering firms and other external resources
- Engineering, designs, specifications, and cost estimates
- Safety security, and law enforcement plans
- Outstanding permitting activities
- Procurement
- Facilities provided by project partners
- Materials, services, and equipment provided by project partners (if applicable)
- Construction management and other construction related services
- Post-construction/contract closeout

3.11 Market Conditions

During volatile economic conditions, a market conditions amount can be applied to an estimate. This adjustment is made to account for the current volatility in the construction market and/or the location of a project.

However, based on the current construction market and the location of the work proposed in this estimate, a market conditions adjustment was not applied. Indirect costs, contractor overhead and profit, and

contingencies will need to be revisited in future estimates because of changes in market conditions, such as competition from other major water projects in California.

3.12 Cost Resources

The following is a list of the various cost resources used in the development of the cost estimate:

- RSMeans data
- Jacobs historical data
- Vendor quotes where available
- Estimator judgment

3.13 Disclaimer

The opinions of cost (estimates) shown, and any resulting conclusions regarding project financial or economic feasibility or funding requirements, have been prepared for guidance in project evaluation and implementation from the information available at the time the opinion was prepared. The final costs of the project and resulting feasibility will depend on actual labor and material costs, competitive market conditions, actual site conditions, final project scope, implementation schedule, continuity of personnel and engineering, and other variable factors.

The recent increases or decreases in material pricing may have a significant impact that is not predictable and careful review or consideration must be used in the evaluation of material prices. As a result, the final project costs will vary from the opinions of cost presented herein. Because of these factors, project feasibility, benefit/cost ratios, risks, and funding needs must be carefully reviewed before making specific financial decisions or establishing project budgets to help ensure proper project evaluation and adequate funding.

Appendix A
Value Planning Effort

HC Value Engineering Items Implemented for 30% April 2025 Estimate Revision

Bid Package	Package Description	Item Description	Cost Reductions are in relation to June 2024 Basis of Estimate Report Estimated Cost Reduction (nearest $100k)	Risk/Operation Impacts
1	**Funks, TRR, Environmental Pipeline**			
		Replace Victualic Dynamic Movement Joints ($54.4 million) with NW Pipe Infrashield System ($5.1 million) on TRR Pipelines, 250' at each fault location (6 total for 1,500LF of Infrashield System)	$ 49,300,000	TRR Pipelines are no longer carrying emergency drawdown flows and should not be DSOD jurisdictional. Need to verify with DSOD that the TRR pipelines are not jurisdictional. Typically would not provide seismic relief for 2,300 year return interval. Need more geotechnical evaluation to determine if the seismic faults are there and extent and magnitude. Infrashield system will allow for joint movement in siesmic event, meeting DSOD requirement at reduced cost
		Reduce diameter of TRR pipelines from 12.0 feet (144-inch) to 11.0 ft (132-inch) at 1,800 cfs to match Funks pipeline velocities of 9.3 ft/sec at 2,100 cfs	$ 7,900,000	At this flow and diameter max velocity will be 9.5 fps. Estimated savings does not take into account tunnels under Funks Reservoir and under PGE corridor.
		Decrease tunnel size for TRR piplines under PG&E corridor and Funks Reservoir from 18' to 17' diameter.	$ 9,000,000	Reduction in tunnel size assumed equal to reduction in carrier pipe diameter of 1'.
		Revise CLSM quantity used in pipe zone for the TRR?Funks Pipelines to reflect trench sections shown in 30% design. Due to a lack of geotechnical data the 30% estimate conservatively assumed a wide trench along the entire pipeline alignment.	$ 23,600,000	Additional geotech exploration may allow further reduction of CLSM in pipe zone. Current design uses one existing boring showing weak soil characteristics
		Revise trench excavation quantity for the TRR/Funks pipelinesto reflect trench sections shown in 30% design.	$ 23,800,000	Quantities used in estimate reflected a more conservative trench section that was revised during design.
		Revise trench backfill above pipe zone quantity for the TRR/Funks pipelines to reflect trench sections shown in 30% design.	$ 3,100,000	Quantities used in estimate reflected a more conservative trench section that was revised during design.
2	**Funks Pumping and Generating Plant**			
		Reduce pump station slab thickness by 2.5'	$ 3,100,000	To prevent flotation of structure would reduce amount of bays that can be simultaneously dewatered from six to two. Dewatering would be for unusual maintenance activities.
4	**Terminal Regulating Reservoir**			
		Remove liner and underdrain system	$ 21,700,000	Per Geosytnec 30% deisgn BODR. Soils are fine and no need for liner. Limited Risk - in that project has not done full geotech exploration and nearby landowners would have to be educated that there is not a seepage risk.
		Change excavation approach from ripping with dozers and moving with scrapers to excavating with 5CY buckets and hauling with haul trucks. Correct cycle distance from TRR stockpiles at Funks Reservoir from 20 miles to 10 miles	$ 22,800,000	Additional geotech exploration in the TRR will confirm this change.
	Staging and Laydown	Correct cycle distance from TRR to spoils stockpiles at Funks Reservoir from 20 miles to 10 miles	$ 4,100,000	Reducing cycle distance will reduce cycle time. This will reduce hours to complete and associated cost will decrease.
	PGP and Dissipation Structure	Correct cycle distance from TRR to spoils stockpiles at Funks Reservoir from 20 miles to 10 miles	$ 300,000	Reducing cycle distance will reduce cycle time. This will reduce hours to complete and associated cost will decrease.
11	**Dunnigan Pipeline**			
		Revise CLSM quantity used in pipe zone to reflect trench sections shown in 30% design. Due to a lack of geotechnical data the 30% estimate conservatively assumed CLSM around the entiretly of the pipe followed by an additional 1 foot on top.	$ 11,700,000	Additional geotech exploration may allow further reduction of CLSM in pipetrench.
		Revise trench excavation quantity to reflect trench sections shown in 30% design and remove ripping quantity for pipe trench along entire length of pipeline.	$ 7,600,000	Quantities used in estimate reflected a more conservative trench section that was revised during design. Available geotech in this area confirms a ripping is not required prior to trench excavation with a scraper
		Revise trench backfill above pipe zone quantity to reflect trench sections shown in 30% design.	$ 2,700,000	Quantities used in estimate reflected a more conservative trench section that was revised during design.

Appendix B
Design Contingencies Summary

Sites Reservoir: Design Contingency Development
30% Cost Estimate
Sites, CA

Cost Estimate
AACEI Class 3
May 22, 2024

Last revised date: April 1 ,2025

HC - Conveyance Contingency

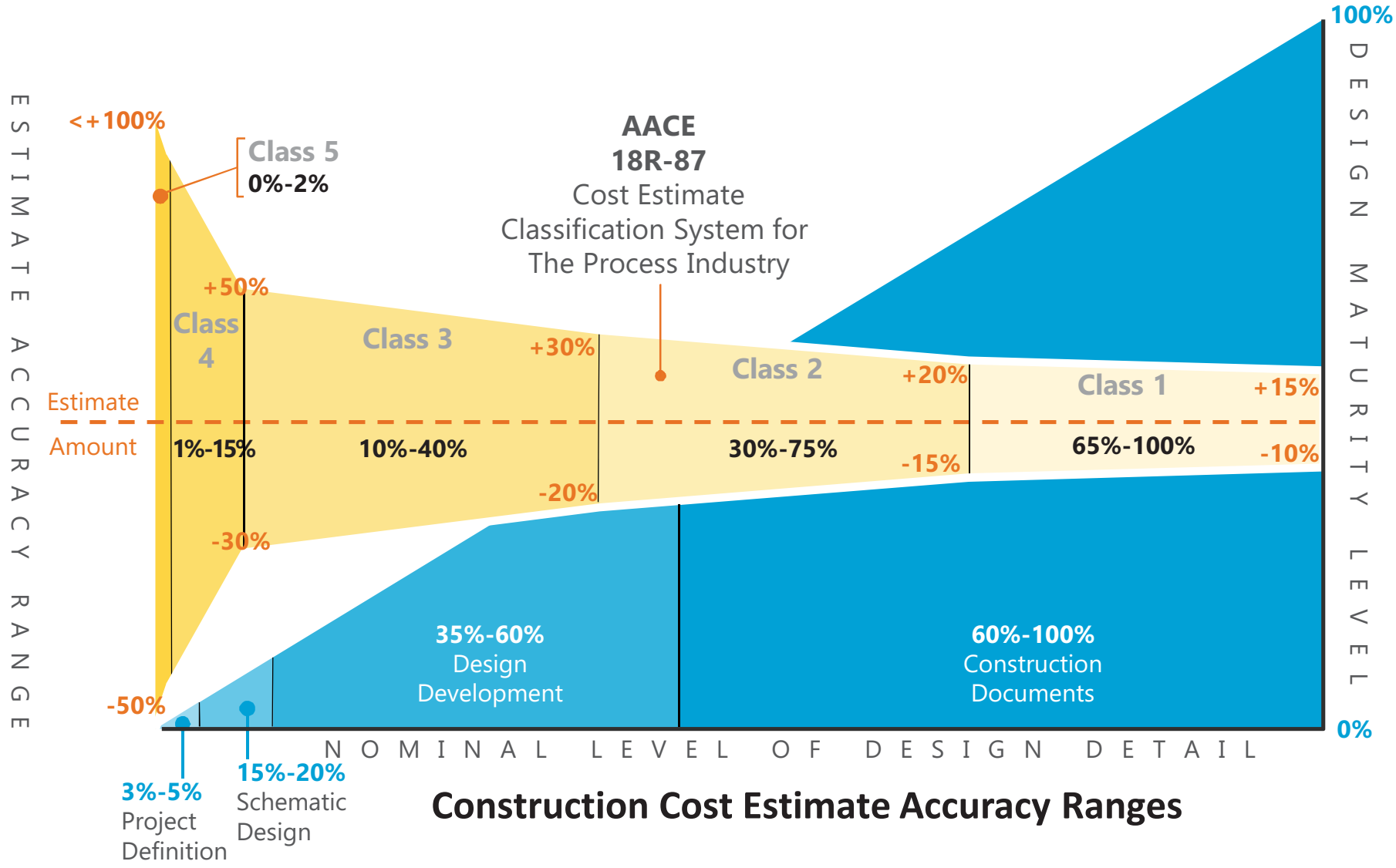
ID	Category	Scope		Risk Description	30% Estimate Cost or Full Risk Cost if not included in 30% Est.	Risk Cost[1]	Probability	Contingency (Factored Risk)	Percent of 30% Estimate	Notes	Geotech or Design Progression?	Risk Probability Scorecard (VH=90%, H=75%, M=50%, L=25%, VL=10%)									
					A	B	D	B x D = E	E / A = F			Pete	Isabel	Kerilyn	Brad	Tom	Wayne	Mark	Andrew	Craig	Average
HC-01	Funks, TRR and Environmental Pipelines	CLSM Processing	Funks, TRR and Environmental Pipelines - CLSM Processing	Estimate assumes native trench material will be acceptable for production of CLSM onsite. Risk assumes CLSM materials must be obtained offsite.	$ 16,210,000	$ 16,210,000	55%	$ 8,915,500	55.0%	Unit price changes from $75 to $150	Geotech	50.00%	75.00%	50.00%	50.00%	75.00%	50.00%	40.00%	50.00%		55%
HC-02	Dunnigan Pipeline	CLSM Processing	Dunnigan Pipeline - CLSM Processing	Estimate assumes native trench material will be acceptable for production of CLSM onsite. Risk assumes CLSM materials must be obtained offsite.	$ 8,945,000	$ 8,945,000	53%	$ 4,752,031	53.1%	Unit price changes from $75 to $150	Geotech	50.00%	75.00%	50.00%	50.00%	75.00%	25.00%	50.00%	50.00%		53%
HC-03A	TRR PGPs	Discharge Structure depth	TRR PGPs - Discharge Structure depth	Future design and/or modeling efforts (i.e., CFD modeling) results in design change to TRR Discharge Structure, increasing depth by 5 feet.	$ 11,295,000	$ 3,002,625	58%	$ 1,751,531	15.5%	15% add to Concrete, 2X Earthwork, 15% add to Process Piping	Design Progression	50.00%	50.00%	75.00%	50.00%		75.00%	50.00%			58%
HC-03B	Funks PGPs	Discharge Structure depth	Funks PGPs - Discharge Structure depth	Future DSOD coordination, future design and/or modeling efforts (i.e., CFD modeling) results in design change to Funks Discharge Structure, increasing depth by 15 feet and width by 25 feet	$ 23,425,000	$ 6,335,311	67%	$ 4,223,541	18.0%	25% add to Concrete, 2X Earthwork, 15% add to Process Piping	Design Progression	75.00%	50.00%	75.00%	75.00%		75.00%	50.00%			67%
HC-04	Dunnigan Pipeline: Discharge Structure	Discharge Structure depth	Dunnigan Pipeline: Discharge Structure - Discharge Structure depth	Future design and/or modeling efforts (i.e., CFD modeling, geotech data) results in design change to Dunnigan Pipeline Discharge Structure increasing depth by 15-ft.	$ 9,550,000	$ 3,880,000	52%	$ 2,004,667	21.0%	Earthwork and Concrete doubles	Design Progression	50.00%	75.00%	50.00%	25.00%		50.00%	60.00%			52%
HC-05	TRR Pipeline: Tunnels under Funks Reservoir	Tunnel	TRR Pipeline: Tunnels under Funks Reservoir - Tunnel	Further geotechnical investigations results in design change (i.e., tunnel needs to be 20-ft lower) to tunnel and shafts.	$ 10,840,000	$ 2,803,700	72%	$ 2,009,318	18.5%	2 shafts to be lowered 20' (1 Launch / 1 Reception). Launch & Reception Shaft @ $140,185 per VLF (per pair)	Geotech	50.00%	75.00%	75.00%			75.00%	75.00%	80.00%		72%
HC-06	TRR Pipeline: Tunnels under PG&E corridor at TRR PGP	Tunnel	TRR Pipeline: Tunnels under PG&E corridor at TRR PGP - Tunnel	Further geotechnical investigations results in design change (i.e., tunnel needs to be 20-ft lower) to tunnel and shafts.	$ 7,830,000	$ 2,803,700	61%	$ 1,705,584	21.8%	2 shafts to be lowered 20' (1 Launch / 1 Reception). Launch & Reception Shaft @ $140,185 per VLF (per pair)	Geotech	50.00%	50.00%	75.00%			75.00%	40.00%	75.00%		61%
HC-07	Dunnigan Pipeline: Tunnels @ I-5, HWY 99 and RR.	Tunnel	Dunnigan Pipeline: Tunnels @ I-5, HWY 99 and RR. - Tunnel	Further geotechnical investigations results in design change (i.e., tunnels need to be 20-ft lower) to tunnel and shafts.	$ 14,850,000	$ 5,496,360	65%	$ 3,572,634	24.1%	4 shafts to be lowered 20' (2 Launch / 2 Reception). Launch & Reception Shaft @ $137,409 per VLF (per pair)	Geotech	50.00%	50.00%	75.00%			75.00%	60.00%	80.00%		65%
HC-08	Funks and TRR Pipelines	Trench Width	Funks and TRR Pipelines - Trench Width	Further geotechnical investigations results in design change to TRR/Funks pipeline trench width. Assume 1500 LF of trench changes from Standard Detail 3123-110A to 3123-110B.	$ 38,686,500	$ 7,171,500	74%	$ 5,276,175	13.6%	3123-110A ($22,771/LF) 3123-110B ($26,771/LF) - $4,000/LF Adder	Geotech	75.00%	90.00%	75.00%	75.00%	75.00%	75.00%	50.00%			74%
HC-09	TRR Pipelines	Trench Width	TRR Pipelines - Trench Width	Further geotechnical investigations results in design change to pipeline trench width. Assume 3000 LF of trench changes from Standard Detail 3123-110C to 3123-110D.	$ 37,866,000	$ 13,149,000	66%	$ 8,734,693	23.1%	3123-110C ($12,622/LF) 3123-110D ($17,005/LF) - $4,383/LF Adder	Geotech	25.00%	75.00%	90.00%	75.00%	75.00%	75.00%	50.00%			66%
HC-10	Environmental Pipeline	Trench Width	Environmental Pipeline - Trench Width	Further geotechnical investigations results in design change to pipeline trench width. Assume 1200 LF of trench width changes from Pipe OD + 18" to Pipe OD x 3.	$ 4,230,000	$ 168,000	63%	$ 105,000	2.5%	Original ($1,739/LF) Revised ($1,885/LF) - $146/LF Adder	Geotech	50.00%	50.00%		75.00%	75.00%	75.00%	50.00%			63%
HC-11	Dunnigan Pipeline	Trench Width	Dunnigan Pipeline - Trench Width	Further geotechnical investigations results in design change to pipeline trench width. Assume 9500 LF of trench width changes from Pipe OD + 18" to Pipe OD x 3.	$ 103,285,000	$ 2,109,000	70%	$ 1,476,300	1.4%	Original ($5,404/LF) Revised ($5,626/LF) - $222/LF Adder	Geotech	50.00%	75.00%	90.00%	75.00%	75.00%	75.00%	50.00%			70%
HC-12	Dunnigan Pipeline	Implementing Alt 2 Design	Dunnigan Pipeline - Implementing Alt 2 Design	Extending Dunnigan Pipeline from the CBD to the Sacramento River (ALT2). Additional 29,500lf of 12' Dia Pipeline. Discharge Structure at the Sacramento River	$ 129,500,000	$ 129,500,000	50%	$ 64,750,000	50.0%	Assume TRR/Funks open trench unit cost ($3,612/LF) for one 12' dia pipeline, an additional $20M for the river discharge structure maintaining a discharge structure at the CBD and an additional $2.5M for trench dewatering.	Design Progression	50.00%					50.00%				
HC-13	WAPA	Crossing WAPA Power Lines with Sites Power Lines	WAPA - Crossing WAPA Power Lines with Sites Power Lines	Coordination with WAPA alters where TRR Pipelines and 230 kv Transmission lines cross WAPA and 500 kv TANC Power Lines. Go 3,000-LF north of 30% design layout.	$ 27,740,000	$ 5,681,820	73%	$ 4,147,729	15.0%	Assumes $10M/mile for transmission lines	Design Progression	90.00%	75.00%	75.00%			75.00%		50.00%		73%
HC-14	PG&E Point of Interconnection (POI)	Location of POI	PG&E Point of Interconnection (POI) - Location of POI	POI to PG&E lines needs to extend from TRR area to near PG&E power plant (4 miles north) resulting in 4 miles of additional power lines for Sites.	$ 27,740,000	$ 40,000,000	63%	$ 25,200,000	90.8%	Assumes $10M/mile for transmission lines	Design Progression	90.00%	50.00%	75.00%			50.00%		50.00%		63%
HC-15	Funks PGP	Pump bay size	Funks PGP - Pump bay size	Future design and/or modeling efforts (i.e. buoyancy/flotation calcuations) results in design change to PGP bays, increasing top slab thickness 1.5 feet (27%).	$ 4,025,000	$ 2,011,192	55%	$ 1,106,156	27.5%	34,088 SF of 3' Thick SOG. $1,062/CY	Design Progression	50.00%	50.00%	75.00%			50.00%	50.00%			55%

ID	Category	Scope		Risk Description	30% Estimate Cost or Full Risk Cost if not included in 30% Est.	Risk Cost[1]	Probability	Contingency (Factored Risk)	Percent of 30% Estimate	Notes	Geotech or Design Progression?	Risk Probability Scorecard (VH=90%, H=75%, M=50%, L=25%, VL=10%)									
					A	B	D	B x D = E	E / A = F			Pete	Isabel	Kerilyn	Brad	Tom	Wayne	Mark	Andrew	Craig	Average
HC-16	TRR PGP	Pump bay size	TRR PGP - Pump bay size	Future design and/or modeling efforts (i.e. buoyancy/flotation calcuations) results in design change to PGP bays, increasing top slab thickness 1.5 feet (27%).	$ 7,135,000	$ 1,645,693	55%	$ 905,131	12.7%	34,088 SF of 6.5' Thick SOG. $869/CY	Design Progression	50.00%	50.00%	75.00%			50.00%	50.00%			55%
HC-17	13.8KV Distribution Power Lines	Electrical Lines	13.8KV Distribution Power Lines - Electrical Lines	Environmental constraints requires all 13.8 KV overhead distribution power lines to be underground. Current estimate is OH.	$ 3,247,402	$ 9,697,500	65%	$ 6,303,375	194.1%	Pkg8 has 32,325 LF of total OH line. To install line underground an additional $300/LF.	Design Progression	90.00%	50.00%	75.00%			75.00%	50.00%		50.00%	65%
HC-18	Funks PGP	Water Supply	Funks PGP - Water Supply	Required to install 600-gpm groundwater well and 18,000-LF of 8-inch-diameter piping for fire tank water, instead of pulling water directly from Funks Reservoir.	$ 14,500,000	$ 14,500,000	80%	$ 11,600,000	80.0%	Assume $800 per LF for 8" Waterline + $100,000 well allowance	Design Progression	50.00%	90.00%	90.00%			90.00%				80%
HC-19	TRR PGP	Water Supply	TRR PGP - Water Supply	Required to install 600-gpm groundwater well and 11,000-LF of 8-inch-diameter piping for fire tank water, instead of pulling water directly from TRR.	$ 8,900,000	$ 8,900,000	80%	$ 7,120,000	80.0%	Assume $800 per LF for 8" Waterline + $100,000 well allowance	Design Progression	50.00%	90.00%	90.00%			90.00%				80%
HC-20	Funks and TRR Pipelines	Funks/TRR Connection Manifold	Funks and TRR Pipelines - Funks/TRR Connection Manifold	Further design and onsite fabrication of manifold increase cost of construction	$ 5,364,490	$ 1,000,000	71%	$ 708,333	13.2%		Design Progression	75.00%	50.00%	75.00%	75.00%	75.00%	75.00%				71%
HC-21	All Packages	Items not individually captured above	All Packages - Items not individually captured above	General contingency for design development uncertainty and unlisted items on all facilities not individually listed above	$ 1,442,000,000	$ 139,025,341	64%	$ 89,150,000	6.2%	Takes 15% of the construction cost of all risks evaluated subtracted from total conveyance construction cost and then multiplies by average of all risk probablities.	Design Progression										
					$ 1,442,000,000	$ 424,035,743		$ 255,517,698	18%	**Design Contingency to be applied at 30% design**											
					$ 515,164,392	$ 285,010,401		$ 166,367,698	32.3%												

1) - Column F is the Construction Cost Before Contingencies

Geotechnical	$ 36,547,236
Design Progression	$ 218,970,463
Construction	$ 45,430,000
Total	$ 300,947,698

Appendix C
AACE International Classification


ESTIMATE ACCURACY RANGE
<+100%
Class 5
0%-2%
AACE
18R-87
Cost Estimate
Classification System for
The Process Industry
+50%
Class 4
Class 3
+30%
Class 2
+20%
Class 1
+15%
Estimate
Amount
1%-15%
10%-40%
30%-75%
65%-100%
-15%
-10%
-20%
-30%
-50%
35%-60%
Design
Development
60%-100%
Construction
Documents
100%
DESIGN MATURITY LEVEL
0%
NOMINAL LEVEL OF DESIGN DETAIL
3%-5%
Project
Definition
15%-20%
Schematic
Design
Construction Cost Estimate Accuracy Ranges

Estimate Class	Class 5		Class 4		Class 3		Class 2		Class 1	
LEVEL OF PROJECT DEFINITION Expressed as a % of complete definition	0% to 2%		1% to 15%		10% to 40%		30% to 70%		50% to 100%	
END USAGE Typical Purpose of Estimate	Concept Screening		Study or Feasibility		Budget Authorization, or Control		Control or Bid / Tender		Check Estimate or Bid / Tender	
METHODOLOGY Typical estimating method	Capacity Factored, Parametric Models, Judgment, or Analogy		Equipment Factored or Parametric Models		Semi-Detailed Unit Costs with Assembly Level Line Items		Detailed Unit Cost with Forced Detailed Take-Off		Detailed Unit Cost with Detailed Take-Off	
EXPECTED ACCURACY RANGE Typical variation in low and high ranges [a]	L: -20% to -50%	H: +30% to +100%	L: -15% to -30%	H: +20% to +50%	L: -10% to -20%	H: +10% to +30%	L: -5% to -15%	H: +5% to +20%	L: -3% to -10%	H: +3% to +15%
PREPARATION EFFORT Typical degree of effort relative to least cost index of 1 [b]	1		2 to 4		3 to 10		4 to 20		5 to 100	
REFINED CLASS DEFINITION	Class 5 estimates are generally prepared based on very limited information, and subsequently have very wide accuracy ranges. As such, some companies and organizations have elected to determine that due to the inherent inaccuracies, such estimates cannot be classified in a conventional and systematic manner. Class 5 estimates, due to the requirements of end use, may be prepared within a very limited amount of time and with very little effort expended - sometimes requiring less than 1 hour to prepare. Often, little more than proposed plant type, location, and capacity are known at the time of estimate preparation.		Class 4 estimates are generally prepared based on very limited information, and subsequently have very wide accuracy ranges. They are typically used for project screening, determination of feasibility, concept evaluation, and preliminary budget approval. Typically, engineering is from 1% to 5% complete, and would comprise at a minimum the following: plant capacity, block schematics, indicated layout, process flow diagrams (PFDs) for main process systems and preliminary engineered process and utility equipment lists. Level of Project Definition Required: 1% to 15% of full project definition.		Class 3 estimates are generally prepared to form the basis for budget authorization, appropriation, and/or funding. As such, they typically form the initial control estimate against which all actual costs and resources will be monitored. Typically, engineering is from 10% to 40% complete, and would comprise at a minimum the following: process flow diagrams, utility flow diagrams, preliminary piping and instrument diagrams, utility flow diagrams, preliminary piping and instrument diagrams, plot plan, developed layout drawings, and essentially complete engineering process and utility equipment lists. Level Of Project Definition Required: 10% to 40% of full project definition.		Class 2 estimates are generally prepared to form a detailed control baseline against which all project work is monitored in terms of cost and progress control. For contractors, this class of estimate is often used as the "bid" estimate to establish contract value. Typically, engineering is from 30% to 70% complete, and would comprise at a minimum the following: Process flow diagrams, utility flow diagrams, piping and instrument flow diagrams, heat and material balances, final plot plan, final layout drawings, complete engineered process and utility equipment lists, single line diagrams for electrical, electrical equipment and motor schedules, vendor quotations, detailed project execution plans, resourcing and work force plans, etc.		Class 1 estimates are generally prepared for discrete parts or sections of the total project rather than generating this level of detail for the entire project. The parts of the project estimated at this level of detail will typically be used by subcontractors for bids, or by owners for check estimates. The updated estimate is often referred to as the current control estimate and becomes the new baseline for cost/schedule control of the project. Class 1 estimates may be prepared for parts of the project to comprise a fair price estimate or bid check estimate to compare against a contractor's bid estimate, or to evaluate/dispute claims. Typically, engineering is from 50% to 100% complete, and would comprise virtually all engineering and design documentation of the project, and complete project execution and commissioning plans. Level for Project Definition Required: 50% to 100% of full project definition.	
END USAGE DEFINED	Class 5 estimates are prepared for any number of strategic business planning purposes, such as but not limited to market studies, assessment of initial viability, evaluation of alternate schemes, project screening, project location studies, evaluation of resource needs and budgeting, long-range capital planning, etc.		Class 4 estimates are prepared for a number of purposes, such as but not limited to, detailed strategic planning, business development, project screening at more developed stages, alternative scheme analysis, confirmation of economic and/or technical feasibility, and preliminary budget approval or approval to proceed to next stage.		Class 3 estimates are typically prepared to support full project funding requests, and become the first of the project phase "control estimate" against which all actual costs and resources will be monitored for variations to the budget. They are used as the project budget until replaced by more detailed estimates. In many owner organizations, a Class 3 estimate may be the last estimate required and could well form the only basis for cost/schedule control.		Class 2 estimates are typically prepared as the detailed control baseline against which all actual costs an resources will now be monitored for variation to the budget, and form a part of the change/variation control program.		Class 1 estimates are typically prepared to form a current control estimate to be used as the final control baseline against which all actual coasts and resources will now be monitored for variations to the budget, and form a part of the change/variation control program. They may be used to evaluate bid checking, to support vendor/contractor negotiations, or for claim evaluations and dispute resolution.	
ESTIMATING METHODS USED	Class 5 estimates virtually always use stochastic estimating methods such as cost/capacity curves and factors, scale of operations factors, Lang factors, Hand factors, Chilton factors, Peters-Timmerhaus factors, Guthrie factors, and other parametric and modeling techniques.		Class 4 estimates virtually always use stochastic estimating methods such as cost/capacity curves and factors, scale of operations factors, Lang factors, Hand factors, Chilton factors, Peters-Timmerhaus factors, Guthrie factors, the Miller method, gross unit costs/ratios, and other parametric and modeling techniques.		Class 3 estimates usually involve more deterministic estimating methods that stochastic methods. They usually involve a high degree of unit cost line items, although these may be at an assembly level of detail rather than individual components. Factoring and other stochastic methods may be used to estimate less-significant areas of the project.		Class 2 estimates always involve a high degree of deterministic estimating methods. Class 2 estimates are prepared in great detail, and often involve tens of thousands of unit cost line items. For those areas of the project still undefined, an assumed level of detailed takeoff (forced detail) may be developed to use as line items in the estimate instead of relying on factoring methods.		Class 1 estimates involve the highest degree of deterministic estimating methods, and require a great amount of effort. Class 1 estimates are prepared in great detail, and thus are usually performed on only the most important or critical areas of the project. All items in the estimate are usually unit cost line items based on actual design quantities.	
EXPECTED ACCURACY RANGE	Typical accuracy ranges for Class 5 estimates are -20% to -50% on the low side, and +30% to +100% on the high side, depending on the technological complexity of the project, appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.		Typical accuracy ranges for Class 4 estimates are -15% to -30% on the low side, and +20% to +50% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.		Typical accuracy ranges for Class 3 estimates are -10% to -20% on the low side, and +10% to +30% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.		Typical accuracy ranges for Class 2 estimates are -5% to -15% on the low side, and +5% to +20% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.		Typical accuracy ranges for Class 1 estimates are -3% to -10% on the low side, and +3% to +15% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.	
EFFORT TO PREPARE (for US$20MM project):	As little as 1 hour or less to prepare to perhaps more than 200 hours, depending on the project and the estimating methodology used.		Typically, as little as 20 hours or less to perhaps more than 300 hours, depending on the project and the estimating methodology used.		Typically, as little as 150 hours or less to perhaps more than 1500 hours, depending on the project and the estimating methodology used.		Typically, as little as 300 hours or less to perhaps more than 3000 hours, depending on the project and the estimating methodology used. Bid Estimates typically require more effort than estimates used for funding or control purposes		Class 1 estimates require the most effort to create, and as such are generally developed for only selected areas of the project, or for bidding purposes. A complete Class 1 estimate may involve as little as 600 hours or less, to perhaps more than 6,000 hours, depending on the project and the estimating methodology used. Bid estimate typically require more effort than estimates used for funding or control purposes.	
ANSI Standard Reference Z94.2-1989 name; Alternate Estimate Names, Terms, Expressions, Synonyms:	Order of Magnitude Estimate; Ratio, ballpark, blue sky, seat-of-pants, ROM, idea study, prospect estimate, concession license estimate, guesstimate, rule-of thumb.		Budget Estimate; Screening, top-down, feasibility, authorization, factored, pre-design, pre-study.		Budget Estimate; Budget, scope, sanction, semi-detailed, authorization, preliminary control, concept study, development, basic engineering phase estimate, target estimate.		Definitive Estimate; Detailed Control, forced detail, execution phase, master control, engineering, bid, tender, change order estimate.		Definitive Estimate; Full detail, release, fall-out, tender, firm price, bottoms-up, final, detailed control, forced detail, execution phase, master control, fair price, definitive, change order estimate.	

Estimate Class	Class 5	Class 4	Class 3	Class 2	Class 1
Estimate Input Checklist and Maturity Index	Class 5	Class 4	Class 3	Class 2	Class 1
GENERAL PROJECT DATA					
Project Scope Description	General	Preliminary	Defined	Defined	Defined
Plant Production / Facility Capacity	Assumed	Preliminary	Defined	Defined	Defined
Plant Location	General	Approximate	Specific	Specific	Specific
Soils & Hydrology	None	Preliminary	Defined	Defined	Defined
Integrated Project Plan	None	Preliminary	Defined	Defined	Defined
Project Master Schedule	None	Preliminary	Defined	Defined	Defined
Escalation Strategy	None	Preliminary	Defined	Defined	Defined
Work Breakdown Structure	None	Preliminary	Defined	Defined	Defined
Project Code of Accounts	None	Preliminary	Defined	Defined	Defined
Contracting Strategy	Assumed	Assumed	Preliminary	Defined	Defined
ENGINEERING DELIVERABLES:	**Class 5**	**Class 4**	**Class 3**	**Class 2**	**Class 1**
Block Flow Diagrams	Started / Preliminary	Preliminary / Complete	Complete	Complete	Complete
Plot Plans		Started	Preliminary / Complete	Complete	Complete
Process Flow Diagrams (PFDs)		Started / Preliminary	Preliminary / Complete	Complete	Complete
Utility Flow Diagrams (UFDs)		Started / Preliminary	Preliminary / Complete	Complete	Complete
Piping & Instrument Diagrams (P&IDS)		Started	Preliminary / Complete	Complete	Complete
Heat and Material Balances		Started	Preliminary / Complete	Complete	Complete
Process Equipment List		Started / Preliminary	Preliminary / Complete	Complete	Complete
Utility Equipment List		Started / Preliminary	Preliminary / Complete	Complete	Complete
Electrical One Line Drawings		Started / Preliminary	Preliminary / Complete	Complete	Complete
Specifications and Datasheets		Started	Preliminary / Complete	Complete	Complete
General Equipment Arrangement Drawings		Started	Preliminary / Complete	Complete	Complete
Spare Parts Lists			Started / Preliminary	Preliminary	Complete
Architectural Details / Schedules		Started	Preliminary / Complete	Complete	Complete
Structural Details		Started	Preliminary / Complete	Complete	Complete
Mechanical Discipline Drawings			Started	Preliminary	Preliminary / Complete
Electrical Discipline Drawings			Started	Preliminary	Preliminary / Complete
System Discipline Drawings			Started	Preliminary	Preliminary / Complete
Civil/Site Discipline Drawings			Started	Preliminary	Preliminary / Complete
Demolition Details		Started	Preliminary / Complete	Complete	Complete

Appendix D
Package 1
Funks/TRR/Environmental Pipelines
Detailed Cost Estimate

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Summary Report

Project Name: Funks TRR Pipeline (MARCH 2024 Costs)
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/09/2025
Class Estimate: Class 3

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
0000	**General Conditions**	***38.00*** **MO**	**982,437.14 /MO**	**37,332,611**
2030	**Valve Vault**	***1.00*** **LS**	**10,468,076.69 /LS**	**10,468,077**
2040	**Environmental Water Pipeline Dissipation Structure**	***1.00*** **LS**	**5,323,175.67 /LS**	**5,323,176**
2041	**Environmental Water Pipeline**	**2,431.00 LF**	**1,158.52 /LF**	**2,816,371**
2120	**Funks/TRR Connection Manifold**	***1.00*** **LS**	**4,536,171.04 /LS**	**4,536,171**
2121	**Funks/TRR Pipeline Open Cut**	**31,490.00 LF**	**6,738.26 /LF**	**212,187,743**
2122	**TRR Pipeline Tunnels**	**10,386.00 LF**	**16,799.11 /LF**	**174,475,552**
2190	**Funks Reservoir Flow Meter Vault**	***1.00*** **LS**	**8,566,218.83 /LS**	**8,566,219**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	136,188,795		1,037,819.234	
Material	241,527,767			
Subcontractor	12,659,653			
Equipment	65,329,704		278,909.936	
Other				
Subtotal W/ Prime Markups	**455,705,919**	**455,705,919**		
Contractor Contingency	13,671,178			3.000 %
Design Contingency	82,027,065			18.000 %
Opinion of Probable Construction Costs	**95,698,243**	**551,404,162**		

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Work Activity Summary Report

Project Name: Funks TRR Pipeline (MARCH 2024 Costs)
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/09/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
0000				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	306,241.51 /LS	306,242
			01.I5.005	GC Labor	1.00 LS	15,687,592.86 /LS	15,687,593
			01.I5.010	Jobsite Office	1.00 LS	1,246,353.80 /LS	1,246,354
			01.I5.011	Temporary Facilities	1.00 LS	3,968,131.07 /LS	3,968,131
			01.I5.012	Temporary Services	1.00 LS	696,859.16 /LS	696,859
			01.I5.013	Travel	1.00 LS	2,711,975.91 /LS	2,711,976
			01.I5.014	Site Cleanup	1.00 LS	852,836.53 /LS	852,837
			01.I5.014A	Site Safety	1.00 LS	2,033,479.47 /LS	2,033,479
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	3,649,564.42 /LS	3,649,564
			01.I5.016	Material Handling	1.00 LS	3,349,327.76 /LS	3,349,328
			01.I5.020	GC Indirect Services & Support	1.00 LS	575,783.97 /LS	575,784
			01.I6.000	Quality Control	1.00 LS	2,254,464.78 /LS	2,254,465
				01.01 Construction Operations	1.00 LS	37,332,611.24 /LS	37,332,611
				01.0 General Requirements	380.00 MO	98,243.71 /MO	37,332,611
				0000 General Conditions	**38.00 MO**	**982,437.14 /MO**	**37,332,611**
2030				**Valve Vault**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.100	Vault Foundation Slab	895.00 CY	942.69 /CY	843,706
				03.18 Cast-In-Place Concrete, Slabs on Grade	895.00 CY	942.69 /CY	843,706
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.102	Vault Concrete Walls	1,030.00 CY	1,704.16 /CY	1,755,282
				03.20 Cast-In-Place Concrete, Straight Walls	1,030.00 CY	1,704.16 /CY	1,755,282
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.00.104	Vault Elevated Slab and Beams	288.00 CY	2,214.19 /CY	637,687
				03.24 Cast-In-Place Concrete, Elevated Slabs	288.00 CY	2,214.19 /CY	637,687
		03.40		Precast Concrete			
			03.02.000	Valve Vault Elevated Slab Pre-Cast Concrete Covers	1,260.00 SF	90.99 /SF	114,645
				03.40 Precast Concrete	1,260.00 SF	90.99 /SF	114,645
				03.0 Concrete Work	2,213.00 CY	1,514.38 /CY	3,351,320
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	174.00 LF	253.48 /LF	44,105
			05.00.002	Ladders	8.00 EA	5,272.19 /EA	42,178
			05.00.004	Metal Grating	743.00 SF	335.45 /SF	249,236
			05.00.006	Access Hatches	7.00 EA	12,552.10 /EA	87,865
				05.00 Metals	1.00 LS	423,383.91 /LS	423,384
				05.0 Metals	1.00 LS	423,383.91 /LS	423,384
	09.0			Finishes			
		09.90		Painting and Coating			
			09.00.000	Valve Vault Painting and Coatings	1.00 LS	153,910.41 /LS	153,910
				09.90 Painting and Coating	1.00 LS	153,910.41 /LS	153,910
				09.0 Finishes	1.00 LS	153,910.41 /LS	153,910
	23.0			HVAC			
		23.00		HVAC			
			23.00.000	Valve Vault HVAC	1.00 LS	82,292.32 /LS	82,292
				23.00 HVAC	1.00 LS	82,292.32 /LS	82,292
				23.0 HVAC	1.00 LS	82,292.32 /LS	82,292
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.000	Electrical	1.00 LS	763,311.69 /LS	763,312
				26.00 Electrical	1.00 LS	763,311.69 /LS	763,312
				26.0 Electrical Work	1.00 LS	763,311.69 /LS	763,312
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.000	Structural Earthworks	16,497.33 CY	81.54 /CY	1,345,115
				31.20 Earthworks, Site	16,497.33 CY	81.54 /CY	1,345,115
				31.0 Earthwork	1.00 LS	1,345,115.22 /LS	1,345,115
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.000	Valve Vault Piping and Appurtenances	1.00 LS	3,733,877.58 /LS	3,733,878
				40.11 Process Pipe, Carbon Steel	212.00 LF	17,612.63 /LF	3,733,878
				40.0 Process Pipe	1.00 LS	3,733,877.58 /LS	3,733,878
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.000	I&C	1.00 LS	614,865.86 /LS	614,866
				40.90 Instrumentation & Controls	1.00 LS	614,865.86 /LS	614,866
				40.9 Instrumentation & Controls	1.00 LS	614,865.86 /LS	614,866
				2030 Valve Vault	**1.00 LS**	**10,468,076.69 /LS**	**10,468,077**
2040				**Environmental Water Pipeline Dissipation Structure**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.000	Slab on Grade @ El 235.00	128.00 CY	982.20 /CY	125,722
			03.00.002	Slab on Grade @ El 202.00	57.00 CY	1,030.50 /CY	58,738

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			03.00.004	Slab on Grade @ El 220.00	51.00 CY	1,019.51 /CY	51,995
				03.18 Cast-In-Place Concrete, Slabs on Grade	236.00 CY	1,001.93 /CY	236,455
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.006	Concrete Walls 2' Thick	608.00 CY	2,074.09 /CY	1,261,049
				03.20 Cast-In-Place Concrete, Straight Walls	608.00 CY	2,074.09 /CY	1,261,049
				03.0 Concrete Work	844.00 CY	1,774.29 /CY	1,497,505
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	175.00 LF	252.79 /LF	44,238
			05.00.002	Ladders	8.00 EA	2,711.95 /EA	21,696
			05.00.004	Metal Grating	154.00 SF	176.04 /SF	27,111
				05.00 Metals	*1.00* LS	93,043.70 /LS	93,044
				05.0 Metals	*1.00* LS	93,043.70 /LS	93,044
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.000	Electrical	*1.00* LS	933,500.80 /LS	933,501
				26.00 Electrical	*1.00* LS	933,500.80 /LS	933,501
				26.0 Electrical Work	*1.00* LS	933,500.80 /LS	933,501
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.000	Structural Earthworks	7,544.00 CY	82.40 /CY	621,647
				31.20 Earthworks, Site	7,544.00 CY	82.40 /CY	621,647
				31.0 Earthwork	*1.00* LS	621,647.46 /LS	621,647
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.002	Environmental Water Discharge Structure Piping and Appurtenances	*1.00* LS	1,784,321.14 /LS	1,784,321
				40.11 Process Pipe, Carbon Steel	*230.00* LF	7,757.92 /LF	1,784,321
				40.0 Process Pipe	*1.00* LS	1,784,321.14 /LS	1,784,321
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.000	I&C	*1.00* LS	373,400.32 /LS	373,400
				40.90 Instrumentation & Controls	*1.00* LS	373,400.32 /LS	373,400
				40.9 Instrumentation & Controls	*1.00* LS	373,400.32 /LS	373,400
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.05.51.0010	Sump Pump	1.00 EA	19,757.52 /EA	19,758
				44.40 Process Equipment - Pumps	1.00 EA	19,757.52 /EA	19,758
				44.0 Pollution and Waste Control Equipment	1.00 EA	19,757.52 /EA	19,758
				2040 Environmental Water Pipeline Dissipation Structure	***1.00*** **LS**	**5,323,175.67 /LS**	**5,323,176**
2041				**Environmental Water Pipeline**			
	33.1			Pipelines			
		33.03		Buried Process Pipe, Carbon Steel			
			33.00.05.EW42	Environmental Pipeline 42" WSP	2,431.00 LF	1,158.52 /LF	2,816,371
				33.03 Buried Process Pipe, Carbon Steel	2,431.00 LF	1,158.52 /LF	2,816,371
				33.1 Pipelines	2,431.00 LF	1,158.52 /LF	2,816,371
				2041 Environmental Water Pipeline	**2,431.00 LF**	**1,158.52 /LF**	**2,816,371**
2120				**Funks/TRR Connection Manifold**			
	33.1			Pipelines			
		33.03		Buried Process Pipe, Carbon Steel			
			33.10.006	Funks/TRR Connection Manifold	146.00 LF	31,069.66 /LF	4,536,171
				33.03 Buried Process Pipe, Carbon Steel	146.00 LF	31,069.66 /LF	4,536,171
				33.1 Pipelines	146.00 LF	31,069.66 /LF	4,536,171
				2120 Funks/TRR Connection Manifold	***1.00*** **LS**	**4,536,171.04 /LS**	**4,536,171**
2121				**Funks/TRR Pipeline Open Cut**			
	32.0			Exterior Improvements			
		32.12		Paving			
			32.00.000	TRR Access Roads	*31,455.00* LF	130.03 /LF	4,089,985
				32.12 Paving	99,819.60 SY	40.97 /SY	4,089,985
				32.0 Exterior Improvements	*1.00* LS	4,089,985.06 /LS	4,089,985
	33.1			Pipelines			
		33.03		Buried Process Pipe, Carbon Steel			
			33.00.05.1a-Funks	Funks Pipeline, Single Pipe Trench, (3123-110)	610.00 LF	5,980.00 /LF	3,647,797
			33.00.05.1a-TRR	TRR Pipeline, Single Pipe Trench, (3123-110)	780.00 LF	5,557.94 /LF	4,335,193
			33.00.05.2c-Funks	Funks Pipeline, Dual Pipe Trench, (3123-110C)	*170.00* LF	11,130.21 /LF	1,892,135
			33.00.05.2c-TRR	TRR Pipeline, Dual Pipe Trench, (3123-110C)	*6,050.00* LF	10,396.06 /LF	62,896,153
			33.00.05.4a	Funks/TRR Pipeline, Quad Pipe Trench, (3123-110A)	*2,380.00* LF	20,377.59 /LF	48,498,652
			33.00.05.4b	Funks/TRR Pipeline, Quad Pipe Trench, (3123-110B)	*1,660.00* LF	23,282.25 /LF	38,648,541
			33.10.008	Funks Pipeline, Seismic Couplings	6.00 EA	7,281,698.54 /EA	43,690,191
			33.10.009	TRR Pipeline, Infrasheild Pipe (Adder to Pipeline - 250' per Fault)	1,500.00 LF	2,992.73 /LF	4,489,095
				33.03 Buried Process Pipe, Carbon Steel	31,490.00 LF	6,608.38 /LF	208,097,758
				33.1 Pipelines	31,490.00 LF	6,608.38 /LF	208,097,758
				2121 Funks/TRR Pipeline Open Cut	**31,490.00 LF**	**6,738.26 /LF**	**212,187,743**
2122				**TRR Pipeline Tunnels**			
	33.1			Pipelines			
		33.60		Trenchless Technology, Tunneling			
			33.10.010	17' Dia. Tunnels (TRR), STA 446+94 to 494+27	9,466.00 LF	15,781.90 /LF	149,391,475
			33.10.012	17' Dia. Tunnels (TRR), STA 555+90 to 560+50	920.00 LF	27,265.30 /LF	25,084,076

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				33.60 Trenchless Technology, Tunneling	10,386.00 LF	16,799.11 /LF	174,475,552
				33.1 Pipelines	10,386.00 LF	16,799.11 /LF	174,475,552
				2122 TRR Pipeline Tunnels	**10,386.00 LF**	**16,799.11 /LF**	**174,475,552**
2190				**Funks Reservoir Flow Meter Vault**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.100	Vault Foundation Slab	422.00 CY	953.68 /CY	402,454
				03.18 Cast-In-Place Concrete, Slabs on Grade	422.00 CY	953.68 /CY	402,454
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.102	Vault Concrete Walls	541.00 CY	1,990.80 /CY	1,077,026
				03.20 Cast-In-Place Concrete, Straight Walls	541.00 CY	1,990.80 /CY	1,077,026
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.00.106	Vault Elevated Slab	106.00 CY	2,106.11 /CY	223,247
				03.24 Cast-In-Place Concrete, Elevated Slabs	106.00 CY	2,106.11 /CY	223,247
				03.0 Concrete Work	1,069.00 CY	1,592.82 /CY	1,702,727
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	254.00 LF	236.06 /LF	59,960
			05.00.002	Ladders	11.00 EA	5,272.19 /EA	57,994
			05.00.004	Metal Grating	864.00 SF	361.05 /SF	311,947
			05.00.006	Access Hatches	4.00 EA	8,499.71 /EA	33,999
				05.00 Metals	*1.00* LS	463,900.13 /LS	463,900
				05.0 Metals	*1.00* LS	463,900.13 /LS	463,900
	09.0			Finishes			
		09.90		Painting and Coating			
			09.00.003	Flow Meter Vault Painting and Coatings	*1.00* LS	153,910.43 /LS	153,910
				09.90 Painting and Coating	*1.00* LS	153,910.43 /LS	153,910
				09.0 Finishes	*1.00* LS	153,910.43 /LS	153,910
	23.0			HVAC			
		23.00		HVAC			
			23.00.002	Flow Meter Vault HVAC	*1.00* LS	76,247.40 /LS	76,247
				23.00 HVAC	*1.00* LS	76,247.40 /LS	76,247
				23.0 HVAC	*1.00* LS	76,247.40 /LS	76,247
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.000	Electrical	*1.00* LS	2,385,158.45 /LS	2,385,158
				26.00 Electrical	*1.00* LS	2,385,158.45 /LS	2,385,158
				26.0 Electrical Work	*1.00* LS	2,385,158.45 /LS	2,385,158
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.000	Structural Earthworks	36,062.00 CY	45.70 /CY	1,647,887
				31.20 Earthworks, Site	36,062.00 CY	45.70 /CY	1,647,887
				31.0 Earthwork	*1.00* LS	1,647,886.73 /LS	1,647,887
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.004	Flow Meter Vault Piping and Appurtenances	*1.00* LS	1,514,054.73 /LS	1,514,055
				40.11 Process Pipe, Carbon Steel	*124.00* LF	12,210.12 /LF	1,514,055
				40.0 Process Pipe	*1.00* LS	1,514,054.73 /LS	1,514,055
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.000	I&C	*1.00* LS	622,333.86 /LS	622,334
				40.90 Instrumentation & Controls	*1.00* LS	622,333.86 /LS	622,334
				40.9 Instrumentation & Controls	*1.00* LS	622,333.86 /LS	622,334
				2190 Funks Reservoir Flow Meter Vault	***1.00*** **LS**	**8,566,218.83 /LS**	**8,566,219**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	136,188,794		1,037,819.234	
Material	241,527,767			
Subcontractor	12,659,654			
Equipment	65,329,704		278,909.936	
Other				
Subtotal W/ Prime Markups	**455,705,919**	**455,705,919**		
Contractor Contingency	13,671,178			3.000 %
Design Contingency	82,027,065			18.000 %
Opinion of Probable Construction Costs	**95,698,243**	**551,404,162**		

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Jacobs

Detail Report
Project Name: Funks TRR Pipeline (MARCH 2024 Costs)
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/09/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
0000					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		General Conditions, Other											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	98.79 /ea	9,879
					Miscellaneous Health & Safety Programs	1.00 ls			150,000	-	-	0	150,000.00 /ls	150,000	197,575.17 /ls	197,575
					Project Environmental Requirements	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	98,787.59 /ls	98,788
					01.01.05.00 General Conditions, Other	*1.00* LS			232,500				232,500.00 /LS	232,500	306,241.51 /LS	306,242
					01.I5.000 General Conditions, Other	***1.00*** **LS**			**232,500**				**232,500.00 /LS**	**232,500**	**306,241.51 /LS**	**306,242**
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Executive	19.00 mo	3,040	592,800	-	-	-	-	31,200.00 /mo	592,800	38,833.63 /mo	737,839
					Assist Project Manager	38.00 mo	6,080	948,480	-	-	-	-	24,960.00 /mo	948,480	31,066.91 /mo	1,180,542
					Project Manager	38.00 MO	6,080	948,480	-	-	-	-	24,960.00 /MO	948,480	31,066.91 /MO	1,180,542
					Superintendent	38.00 mo	6,080	729,600	-	-	-	-	19,200.00 /mo	729,600	23,897.62 /mo	908,110
					Asst Superintendent (2)	76.00 mo	12,160	1,459,200	-	-	-	-	19,200.00 /mo	1,459,200	23,897.62 /mo	1,816,219
					Project Engineer	38.00 mo	6,080	699,200	-	-	-	-	18,400.00 /mo	699,200	22,901.89 /mo	870,272
					Field Engineer (4)	152.00 mo	24,320	2,310,400	-	-	-	-	15,200.00 /mo	2,310,400	18,918.95 /mo	2,875,680
					Admin Asst.	38.00 mo	6,080	395,200	-	-	-	-	10,400.00 /mo	395,200	12,944.54 /mo	491,893
					Scheduling Manager	38.00 mo	6,080	705,280	-	-	-	-	18,560.00 /mo	705,280	23,101.03 /mo	877,839
					Assistant Safety Manager	38.00 mo	6,080	912,000	-	-	-	-	24,000.00 /mo	912,000	29,872.03 /mo	1,135,137
					Safety Manager	9.50 mo	1,520	228,000	-	-	-	-	24,000.00 /mo	228,000	29,872.03 /mo	283,784
					Site Skilled Labor (4)	152.00 mo	24,320	2,675,200	-	-	-	-	17,600.00 /mo	2,675,200	21,906.15 /mo	3,329,735
					01.01.06.01 GC Labor	38.00 MO	107,920	12,603,840					331,680.00 /MO	12,603,840	412,831.39 /MO	15,687,593
					01.I5.005 GC Labor	***1.00*** **LS**	**107,920**	**12,603,840**					**12,603,840.00 /LS**	**12,603,840**	**15,687,592.86 /LS**	**15,687,593**
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,951.49 /ea	3,951
					Telephone/fax monthly cost	38.00 mo		-	19,000	-	-	-	500.00 /mo	19,000	658.58 /mo	25,026
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,171.68 /ea	13,172
					High Speed Connection - Consumption	38.00 mo		-	19,000	-	-	-	500.00 /mo	19,000	658.58 /mo	25,026
					Mobile Phone	38.00 mo		-	0	-	36,100	-	950.00 /mo	36,100	1,182.43 /mo	44,933
					Field Office Demob	3.00 ea	180	19,392	-		-	-	6,464.04 /ea	19,392	8,045.58 /ea	24,137
					Field Office Tear Down	3.00 ea	360	38,784	-		-	-	12,928.08 /ea	38,784	16,091.17 /ea	48,273
					Field Office Set-up	3.00 ea	540	58,176	-		32,400	-	30,192.12 /ea	90,576	37,579.16 /ea	112,737
					Field Office Mob	3.00 ea	180	19,392	-	0	-	-	6,464.04 /ea	19,392	8,045.58 /ea	24,137
					Conference Trailer Rent	38.00 mo		-	71,250	-	-	-	1,875.00 /mo	71,250	2,469.69 /mo	93,848
					Field Office Trailer Rent (60 x 12) (3)	114.00 mo		-	199,500	-	-	-	1,750.00 /mo	199,500	2,305.04 /mo	262,775
					Office Furniture	3.00 ea		-	2,325	-	-	-	775.00 /ea	2,325	1,020.80 /ea	3,062
					Office Furniture - Rental	114.00 mo		-	85,500	-	-	-	750.00 /mo	85,500	987.88 /mo	112,618
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,317.17 /ea	1,317
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	72,444.23 /ea	72,444
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,757.51 /ea	19,758
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	85,615.90 /ea	85,616
					Water Cooler Services	38.00 mo		-	5,510	-	-	-	145.00 /mo	5,510	190.99 /mo	7,258
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,757.51 /ea	19,758
					Printing & Reproduction	38.00 mo		-	65,550	-	-	-	1,725.00 /mo	65,550	2,272.11 /mo	86,340
					Postage & Courier	38.00 mo		-	13,300	-	-	-	350.00 /mo	13,300	461.01 /mo	17,518
					Misc. Supplies	38.00 mo		-	108,300	-	-	-	2,850.00 /mo	108,300	3,753.93 /mo	142,649
					01.01.06.00 Project Office	*1.00* LS	1,260	135,745	753,235		68,500		957,479.84 /LS	957,480	1,246,353.80 /LS	1,246,354
					01.I5.010 Jobsite Office	***1.00*** **LS**	**1,260**	**135,745**	**753,235**		**68,500**		**957,479.84 /LS**	**957,480**	**1,246,353.80 /LS**	**1,246,354**
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Temporary offsite Parking and Laydown Area @ 17,250 per month	38.00 mo		-	655,500		-	-	17,250.00 /mo	655,500	22,721.14 /mo	863,403
					Temporary bussing of workers to site - 3 buses, 2 trips per day	38.00 mo		-	1,179,900		-	-	31,050.00 /mo	1,179,900	40,898.06 /mo	1,554,126
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.88 /sy	71,017
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.88 /sy	4,439
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.88 /sy	8,877
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.63 /lf	23,410
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,871.58 /ea	11,743
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,827.35 /ea	9,655
					Tempoary Warehouse rental	38.00 MO		-	144,400	-	-	-	3,800.00 /MO	144,400	5,005.24 /MO	190,199
					Guard Shack - Rent (2)	76.00 mo		-	91,200	-	-	-	1,200.00 /mo	91,200	1,580.60 /mo	120,126
					Site Security Services	38.00 mo		854,620	-		-	-	22,490.00 /mo	854,620	27,992.58 /mo	1,063,718
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	474.18 /ea	47,418
					01.01.06.02 GC Temporary Facilities & Services	38.00 MO	517	913,679	2,136,400		13,584		80,622.70 /MO	3,063,663	104,424.50 /MO	3,968,131
					01.I5.011 Temporary Facilities	***1.00*** **LS**	**517**	**913,679**	**2,136,400**		**13,584**		**3,063,662.69 /LS**	**3,063,663**	**3,968,131.07 /LS**	**3,968,131**
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	38.00 MO		-	323,000	-	-	-	8,500.00 /MO	323,000	11,195.93 /MO	425,445
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,585.84 /ls	6,586
					Water - Consumption	38.00 mo		-	13,571	0	-	-	357.14 /mo	13,571	470.42 /mo	17,876
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,464.60 /ls	16,465
					Sewer - Septic Service	38.00 mo		63,333		0	-	-	1,666.67 /mo	63,333	2,074.45 /mo	78,829
					Hand Washing Station (3)	114.00 mo		-	18,240		-	-	160.00 /mo	18,240	210.75 /mo	24,025
					Portable Toilets (3)	114.00 mo		-	42,750	0	-	-	375.00 /mo	42,750	493.94 /mo	56,309
					Janitorial Service (3)	114.00 mo		-	54,150	0	-	-	475.00 /mo	54,150	625.65 /mo	71,325
					01.01.06.02 GC Temporary Facilities & Services	38.00 MO		63,333	469,211				14,014.34 /MO	532,545	18,338.40 /MO	696,859
					01.I5.012 Temporary Services	***1.00*** **LS**		**63,333**	**469,211**				**532,544.80 /LS**	**532,545**	**696,859.16 /LS**	**696,859**
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	194.00 mo		-	630,015	-	-		3,247.50 /mo	630,015	4,277.50 /mo	829,835
					Construction Delivery - Air Fare (mgmt 1 flight per month)	194.00 ea		-	72,750	-	-	0	375.00 /ea	72,750	493.94 /ea	95,824

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Business travel - Air Fare	194.00 ea		-	106,700	-	-	0	550.00 /ea	106,700	724.44 /ea	140,542
					Business travel - Hotel	388.00 day		-	52,380	-	-	0	135.00 /day	52,380	177.82 /day	68,993
					Business travel - Rental Car	388.00 day		-	29,100	-	-	0	75.00 /day	29,100	98.79 /day	38,330
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	194.00 mo		-	873,000	-	-		4,500.00 /mo	873,000	5,927.25 /mo	1,149,887
					Temporary housing (4 to share a single family home) Specialty Contractors	38.00 MO		-	171,000	-	-		4,500.00 /MO	171,000	5,927.26 /MO	225,236
					Personnel moving expense for 4 GC Management Staff	8.00 EA		-	44,000	-	-		5,500.00 /EA	44,000	7,244.42 /EA	57,955
					Personnel moving expense for 8 specialty workers	16.00 EA		-	80,000	-	-		5,000.00 /EA	80,000	6,585.84 /EA	105,373
					01.01.06.02 GC Temporary Facilities & Services	**38.00 MO**			**2,058,945**				**54,182.76 /MO**	**2,058,945**	**71,367.79 /MO**	**2,711,976**
					01.I5.013 Travel	***1.00*** **LS**			**2,058,945**				**2,058,945.00 /LS**	**2,058,945**	**2,711,975.91 /LS**	**2,711,976**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	164.00 wk	1,640	148,040	-	-	-	-	902.68 /wk	148,040	1,123.54 /wk	184,260
					Jobiste Daily Cleaning up	164.00 wk	3,280	296,079	26,240	-	-	-	1,965.36 /wk	322,319	2,457.82 /wk	403,083
					Dumpster Rental	38.00 MO		-	45,600	-	-	-	1,200.00 /MO	45,600	1,580.60 /MO	60,063
					Dumpster Pulls	164.00 ea		-	127,100	-	-	-	775.00 /ea	127,100	1,020.81 /ea	167,412
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,019.15 /ls	38,019
					01.01.06.02 GC Temporary Facilities & Services	**38.00 MO**	**5,520**	**472,019**	**201,440**				**17,722.59 /MO**	**673,459**	**22,443.07 /MO**	**852,837**
					01.I5.014 Site Cleanup	***1.00*** **LS**	**5,520**	**472,019**	**201,440**				**673,458.56 /LS**	**673,459**	**852,836.53 /LS**	**852,837**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,858.38 /ls	65,858
					Site Safety Training - non productive time	38.00 MO	17,290	1,560,734		-	-	-	41,071.94 /MO	1,560,734	51,120.92 /MO	1,942,595
					First Aid Consumables	38.00 mo		-	19,000	-	-	-	500.00 /mo	19,000	658.58 /mo	25,026
					01.01.06.02 GC Temporary Facilities & Services	**38.00 MO**	**17,290**	**1,560,734**	**69,000**				**42,887.73 /MO**	**1,629,734**	**53,512.62 /MO**	**2,033,479**
					01.I5.014A Site Safety	***1.00*** **LS**	**17,290**	**1,560,734**	**69,000**				**1,629,733.72 /LS**	**1,629,734**	**2,033,479.47 /LS**	**2,033,479**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	152.00 mo		-	-	-	123,424	-	812.00 /mo	123,424	1,010.67 /mo	153,622
					Yard Pickup Truck (4)	76.00 mo		-		-	61,712	-	812.00 /mo	61,712	1,010.67 /mo	76,811
					Staff Vehicle Fuel	152.00 mo		-	1,330,000	-		-	8,750.00 /mo	1,330,000	11,525.22 /mo	1,751,833
					Water Truck	38.00 mo		-	23,750	-	95,000	-	3,125.00 /mo	118,750	3,934.90 /mo	149,526
					Site Storage Connex boxes	10.00 ea		-	7,500	-	-	-	750.00 /ea	7,500	987.88 /ea	9,879
					Small Tools (~0.5% Labor)	1.00 ls		-	1,125,000	-	-	-	1,125,000.00 /ls	1,125,000	1,481,813.68 /ls	1,481,814
					Ice Machine	38.00 MO		-	9,500	-	-	-	250.00 /MO	9,500	329.29 /MO	12,513
					Coolers & Drinking Cups	38.00 mo		-	3,800	-	-	-	100.00 /mo	3,800	131.72 /mo	5,005
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,561.60 /ea	8,562
					01.01.06.03 GC Equip, Tools, & Consumables	**38.00 MO**			**2,506,050**		**280,136**		**73,320.68 /MO**	**2,786,186**	**96,041.17 /MO**	**3,649,564**
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**2,506,050**		**280,136**		**2,786,186.00 /LS**	**2,786,186**	**3,649,564.42 /LS**	**3,649,564**
			01.I5.016		**Material Handling**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					150 tn Crawler, with Operator	38.00 MO	6,587	857,765	886,540	-	754,110	-	65,747.77 /MO	2,498,415	83,525.55 /MO	3,173,971
					Crane setup and removal	4.00 ea	180	23,441	6,000		35,622	-	16,265.63 /ea	65,063	20,354.05 /ea	81,416
					Crane Pads and Removal (5 m x 5 m)	4.00 ea	240	31,254	26,826		15,832	-	18,478.00 /ea	73,912	23,485.19 /ea	93,941
					01.01.06.03 GC Equip, Tools, & Consumables	**38.00 MO**	**7,007**	**912,460**	**919,366**		**805,564**		**69,404.99 /MO**	**2,637,390**	**88,140.20 /MO**	**3,349,328**
					01.I5.016 Material Handling	***1.00*** **LS**	**7,007**	**912,460**	**919,366**		**805,564**		**2,637,389.60 /LS**	**2,637,390**	**3,349,327.76 /LS**	**3,349,328**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,490.92 /ea	16,491
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	362.22 /ea	7,244
					Construction Photos	38.00 MO		-	13,300	0	-	-	350.00 /MO	13,300	461.01 /MO	17,518
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	32,929.21 /ea	32,929
					Miscellaneous third party testing and inspections	1.00 ls		250,000	-	0	-	-	250,000.00 /ls	250,000	311,166.91 /ls	311,167
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,523.47 /day	190,434
					01.01.06.04 GC Indirect Services & Support	**38.00 MO**	**1,000**	**345,000**	**56,320**		**58,000**		**12,087.37 /MO**	**459,320**	**15,152.21 /MO**	**575,784**
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**345,000**	**56,320**		**58,000**		**459,320.00 /LS**	**459,320**	**575,783.97 /LS**	**575,784**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	38.00 MO	6,587	757,452	-	-	-	-	19,932.95 /MO	757,452	24,809.90 /MO	942,776
					Quality Mgr. (3)	38.00 mo	6,587	1,053,846	-	-	-	-	27,732.80 /mo	1,053,846	34,518.12 /mo	1,311,689
					01-01-06-01 GC Labor	**38.00 MO**	**13,173**	**1,811,299**					**47,665.75 /MO**	**1,811,299**	**59,328.02 /MO**	**2,254,465**
					01.I6.000 Quality Control	***1.00*** **LS**	**13,173**	**1,811,299**					**1,811,298.50 /LS**	**1,811,299**	**2,254,464.78 /LS**	**2,254,465**
					01.01 Construction Operations	***1.00*** **LS**	**153,687**	**18,818,107**	**9,402,467**		**1,225,784**		**29,446,358.71 /LS**	**29,446,359**	**37,332,611.24 /LS**	**37,332,611**
					01.0 General Requirements	**380.00 MO**	**153,687**	**18,818,107**	**9,402,467**		**1,225,784**		**77,490.42 /MO**	**29,446,359**	**98,243.71 /MO**	**37,332,611**
					0000 General Conditions	***38.00*** **MO**	**153,687**	**18,818,107**	**9,402,467**		**1,225,784**		**774,904.18 /MO**	**29,446,359**	**982,437.14 /MO**	**37,332,611**
2030					**Valve Vault**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			03.00.100		**Vault Foundation Slab**											
				03.10.05.42	Cast-In-Place Concrete, Slabs on Grade, 42" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	1,232.00 sfca	113	11,766	2,920	-	-	-	11.92 /sfca	14,686	17.39 /sfca	21,428
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	78.00 ton	1,248	146,019	117,000	-	-	-	3,372.03 /ton	263,019	4,980.22 /ton	388,457
					Reinforcing in place, unloading & sorting, add to above - slabs	78.00 ton	44	5,207	-	-	1,809	-	89.94 /ton	7,016	129.94 /ton	10,135
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	922.00 cy		-	207,450	-	-	-	225.00 /cy	207,450	341.36 /cy	314,736
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	895.00 CY	589	56,382	-	-	5,556	-	69.20 /CY	61,937	99.98 /CY	89,479
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&Mln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	6,903.00 sf	97	8,813	-	-	351	-	1.33 /sf	9,164	1.92 /sf	13,239
					Curing, sprayed membrane curing compound	69.03 csf	12	1,058	1,104	-	-	-	31.33 /csf	2,162	46.42 /csf	3,204
					Fine grading, fine grade for slab on grade, machine	767.00 sy	12	1,275	-	-	821	-	2.73 /sy	2,095	3.95 /sy	3,027

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.05.42 Cast-In-Place Concrete, Slabs on Grade, 42" thick	**895.00 CY**	**2,113**	**230,519**	**328,474**		**8,536**		**634.11 /CY**	**567,529**	**942.69 /CY**	**843,706**
					03.00.100 Vault Foundation Slab	**895.00 CY**	**2,113**	**230,519**	**328,474**		**8,536**		**634.11 /CY**	**567,529**	**942.69 /CY**	**843,706**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**895.00 CY**	**2,113**	**230,519**	**328,474**		**8,536**		**634.11 /CY**	**567,529**	**942.69 /CY**	**843,706**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			03.00.102		**Vault Concrete Walls**											
				03.10.06.42	**Cast-In-Place Concrete, Straight Walls, 42" thick**											
					12' Dia Wall Pipes	8.00 ea	224	23,337	166,400	-	9,533	-	24,908.74 /ea	199,270	37,492.85 /ea	299,943
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	16,750.00 sfca	1,767	188,292	91,288	-	-	-	16.69 /sfca	279,580	24.51 /sfca	410,518
					Form oil, coverage varies greatly, maximum, includes material only	33.50 gal		-	921	-	-	-	27.50 /gal	921	41.72 /gal	1,398
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	90.00 ton	1,440	168,483	135,000	-	-	-	3,372.03 /ton	303,483	4,980.22 /ton	448,219
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	90.00 ton	50	6,008	-	-	2,087	-	89.94 /ton	8,095	129.94 /ton	11,694
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	90.00 ton	55	6,530	-	-	2,268	-	97.76 /ton	8,799	141.24 /ton	12,711
					Concrete, ready mix, regular weight, walls/cols/beams, 5000 psi	1,050.00 cy		-	262,500	-	-	-	250.00 /cy	262,500	379.29 /cy	398,257
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	1,030.00 CY	871	83,366	-	-	9,857	-	90.51 /CY	93,222	130.75 /CY	134,675
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	15,834.00 sf	281	25,712	475	-	-	-	1.65 /sf	26,187	2.39 /sf	37,866
					03.10.06.42 Cast-In-Place Concrete, Straight Walls, 42" thick	**1,030.00 CY**	**4,688**	**501,728**	**656,584**		**23,745**		**1,147.63 /CY**	**1,182,057**	**1,704.16 /CY**	**1,755,282**
					03.00.102 Vault Concrete Walls	**1,030.00 CY**	**4,688**	**501,728**	**656,584**		**23,745**		**1,147.63 /CY**	**1,182,057**	**1,704.16 /CY**	**1,755,282**
					03.20 Cast-In-Place Concrete, Straight Walls	**1,030.00 CY**	**4,688**	**501,728**	**656,584**		**23,745**		**1,147.63 /CY**	**1,182,057**	**1,704.16 /CY**	**1,755,282**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			03.00.104		**Vault Elevated Slab and Beams**											
				03.10.10.16	**Cast-In-Place Concrete, Elevated Decks, 16" thick**											
					Slab shoring	132,844.00 cf	930	100,747	6,642	-	-	-	0.81 /cf	107,389	1.17 /cf	155,623
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	5,883.00 sf	504	53,735	15,296	-	-	-	11.73 /sf	69,031	17.14 /sf	100,836
					Cip concrete forms,elevated slab,box-out for shallow slab openings,over 10 sf (use perimeter),includes shoring,erecting,bracing,stripping and cleaning	410.00 lf	33	3,495	1,812	-	-	-	12.95 /lf	5,307	19.02 /lf	7,799
					C.I.P. concrete forms, elevated slab, edge forms, 7" to 12" high, 3 use, includes shoring, erecting, bracing, stripping and cleaning	437.00 sfca	63	6,580	568	-	-	-	16.36 /sfca	7,148	23.73 /sfca	10,368
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	21.55 ton	345	40,342	32,325	-	-	-	3,372.03 /ton	72,667	4,980.22 /ton	107,324
					Reinforcing in place, unloading & sorting, add to above - decks	21.55 ton	12	1,439	-	-	500	-	89.94 /ton	1,938	129.94 /ton	2,800
					Reinforcing steel, crane cost for handling, maximum, add	21.55 ton	34	4,110	-	-	1,428	-	256.98 /ton	5,538	371.25 /ton	8,000
					Concrete, ready mix, regular weight, elevated decks, 4000 psi	251.00 cy		-	50,200	-	-	-	200.00 /cy	50,200	303.43 /cy	76,162
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	246.00 CY	164	15,725	-	-	1,569	-	70.30 /CY	17,294	101.56 /CY	24,984
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	4,981.00 sf	70	6,359	-	-	254	-	1.33 /sf	6,613	1.92 /sf	9,553
					Curing, sprayed membrane curing compound, elevated decks	49.81 csf	8	763	797	-	-	-	31.33 /csf	1,560	46.42 /csf	2,312
					03.10.10.16 Cast-In-Place Concrete, Elevated Decks, 16" thick	**246.00 CY**	**2,164**	**233,296**	**107,640**		**3,750**		**1,401.16 /CY**	**344,687**	**2,055.94 /CY**	**505,761**
				03.10.11.20	**Cast-In-Place Concrete, Elevated Beams, 20"**											
					C.I.P. concrete forms, beams and girders, interior, plywood, 24" wide, 4 use, includes shoring, erecting, bracing, stripping and cleaning	412.00 sfca	50	5,335	630	-	-	-	14.48 /sfca	5,966	21.03 /sfca	8,664
					Shores, horizontal members, joists and stringers, aluminum, includes erect and strip by hand	18.00 ea	5	523	-	-	-	-	29.05 /ea	523	41.97 /ea	756
					Shores, horizontal members, adjustable beam, steel, includes erect and strip by hand	12.00 ea	4	465	-	-	-	-	38.74 /ea	465	55.96 /ea	672
					Shores, vertical members, to 13' high, includes erect and strip by hand	13.00 ea	4	453	-	-	-	-	34.86 /ea	453	50.37 /ea	655
					Shores, reshoring	138.00 sf	2	172	33	-	-	-	1.49 /sf	205	2.16 /sf	298
					Shores, horizontal, rent for job duration, aluminum joists, @ 2' O.C., per mo.	138.00 flr		-	98	-	-	-	0.71 /flr	98	1.08 /flr	149
					Form oil, coverage varies greatly, maximum, includes material only	1.10 gal		-	30	-	-	-	27.50 /gal	30	41.73 /gal	46
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.75 ton	28	3,276	2,625	-	-	-	3,372.03 /ton	5,901	4,980.22 /ton	8,715
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	1.75 ton	1	117	-	-	41	-	89.94 /ton	157	129.93 /ton	227
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	1.75 ton	1	127	-	-	44	-	97.77 /ton	171	141.25 /ton	247
					Concrete, ready mix, regular weight, walls/cols/beams, 4000 psi	8.00 cy		-	1,600	-	-	-	200.00 /cy	1,600	303.43 /cy	2,427
					Structural concrete, placing, beam, large, elevated, pumped, includes strike off & consolidation, excludes material	7.00 CY	7	686	-	-	89	-	110.72 /CY	775	159.96 /CY	1,120
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	412.00 sf	7	669	12	-	-	-	1.65 /sf	681	2.39 /sf	985
					03.10.11.20 Cast-In-Place Concrete, Elevated Beams, 20"	**7.00 CY**	**109**	**11,823**	**5,029**		**174**		**2,432.24 /CY**	**17,026**	**3,565.87 /CY**	**24,961**
				03.10.11.24	**Cast-In-Place Concrete, Elevated Beams, 24"**											
					C.I.P. concrete forms, beams and girders, interior, plywood, 24" wide, 4 use, includes shoring, erecting, bracing, stripping and cleaning	1,731.00 sfca	210	22,415	2,648	-	-	-	14.48 /sfca	25,064	21.03 /sfca	36,401
					Shores, horizontal members, joists and stringers, aluminum, includes erect and strip by hand	74.43 ea	20	2,162	-	-	-	-	29.05 /ea	2,162	41.97 /ea	3,124
					Shores, horizontal members, adjustable beam, steel, includes erect and strip by hand	48.47 ea	17	1,878	-	-	-	-	38.74 /ea	1,878	55.96 /ea	2,712
					Shores, vertical members, to 13' high, includes erect and strip by hand	51.93 ea	17	1,810	-	-	-	-	34.86 /ea	1,810	50.37 /ea	2,616
					Shores, reshoring	576.42 sf	7	718	138	-	-	-	1.49 /sf	856	2.16 /sf	1,247
					Shores, horizontal, rent for job duration, aluminum joists, @ 2' O.C., per mo.	576.42 flr		-	409	-	-	-	0.71 /flr	409	1.08 /flr	621
					Form oil, coverage varies greatly, maximum, includes material only	4.70 gal		-	129	-	-	-	27.50 /gal	129	41.72 /gal	196
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	7.50 ton	120	14,040	11,250	-	-	-	3,372.03 /ton	25,290	4,980.21 /ton	37,352
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	7.50 ton	4	501	-	-	174	-	89.94 /ton	675	129.94 /ton	975
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	7.50 ton	5	544	-	-	189	-	97.77 /ton	733	141.24 /ton	1,059
					Concrete, ready mix, regular weight, walls/cols/beams, 4000 psi168	36.00 cy		-	7,200	-	-	-	200.00 /cy	7,200	303.43 /cy	10,924
					Structural concrete, placing, beam, large, elevated, pumped, includes strike off & consolidation, excludes material	35.00 CY	36	3,429	-	-	447	-	110.73 /CY	3,875	159.96 /CY	5,599
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	1,731.00 sf	31	2,811	52	-	-	-	1.65 /sf	2,863	2.39 /sf	4,140
					03.10.11.24 Cast-In-Place Concrete, Elevated Beams, 24"	**35.00 CY**	**466**	**50,309**	**21,827**		**810**		**2,084.15 /CY**	**72,945**	**3,056.12 /CY**	**106,964**
					03.00.104 Vault Elevated Slab and Beams	**288.00 CY**	**2,739**	**295,427**	**134,497**		**4,734**		**1,509.23 /CY**	**434,658**	**2,214.19 /CY**	**637,687**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**288.00 CY**	**2,739**	**295,427**	**134,497**		**4,734**		**1,509.23 /CY**	**434,658**	**2,214.19 /CY**	**637,687**
		03.40			**Precast Concrete**											
			03.02.000		**Valve Vault Elevated Slab Pre-Cast Concrete Covers**											
				03.44.41.95	**Precast Concrete - Solid Core Planks - Removable Concrete Covers**											
					Lightweight concrete roof slab, short pieces, 4-3/4" thick	1,260.00 SF	80	8,809	63,000	-	4,387	-	60.47 /SF	76,196	90.99 /SF	114,645
					03.44.41.95 Precast Concrete - Solid Core Planks - Removable Concrete Covers	**1,260.00 SF**	**80**	**8,809**	**63,000**		**4,387**		**60.47 /SF**	**76,196**	**90.99 /SF**	**114,645**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.02.000 Valve Vault Elevated Slab Pre-Cast Concrete Covers	**1,260.00 SF**	**80**	**8,809**	**63,000**		**4,387**		**60.47 /SF**	**76,196**	**90.99 /SF**	**114,645**
					03.40 Precast Concrete	**1,260.00 SF**	**80**	**8,809**	**63,000**		**4,387**		**60.47 /SF**	**76,196**	**90.99 /SF**	**114,645**
					03.0 Concrete Work	**2,213.00 CY**	**9,621**	**1,036,482**	**1,182,555**		**41,403**		**1,021.44 /CY**	**2,260,440**	**1,514.38 /CY**	**3,351,320**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.000		**Hand Railing**											
				05.50.04.10	**Metals, Pipe and Tube Railings**											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	174.00 LF	35	4,348	10,875	-	163	-	88.43 /LF	15,386	132.28 /LF	23,016
					24" Self Closing Gate	8.00 ea	64	7,996	6,000	-	300	-	1,787.07 /ea	14,297	2,636.10 /ea	21,089
					05.50.04.10 Metals, Pipe and Tube Railings	**174.00 LF**	**99**	**12,344**	**16,875**		**463**		**170.59 /LF**	**29,683**	**253.48 /LF**	**44,105**
					05.00.000 Hand Railing	**174.00 LF**	**99**	**12,344**	**16,875**		**463**		**170.59 /LF**	**29,683**	**253.48 /LF**	**44,105**
			05.00.002		**Ladders**											
				05.50.03.20	**Metal Ladders, Steel w/o Cage**											
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage includes walkthrough	8.00 EA	128	15,993	12,000	-	600	-	3,574.14 /EA	28,593	5,272.19 /EA	42,178
					05.50.03.20 Metal Ladders, Steel w/o Cage	**8.00 EA**	**128**	**15,993**	**12,000**		**600**		**3,574.14 /EA**	**28,593**	**5,272.19 /EA**	**42,178**
					05.00.002 Ladders	**8.00 EA**	**128**	**15,993**	**12,000**		**600**		**3,574.14 /EA**	**28,593**	**5,272.19 /EA**	**42,178**
			05.00.004		**Metal Grating**											
				05.50.05.00	**Metals, Gratings**											
					Structural steel member, W6x12, A992 steel, shop fabricated, incl shop primer, bolted connections	10.00 lf	11	1,391	270	-	549	-	221.01 /lf	2,210	321.25 /lf	3,212
					Structural steel member, W8x24, A992 steel, shop fabricated, incl shop primer, bolted connections	50.00 lf	56	6,957	2,175	-	2,743	-	237.51 /lf	11,876	346.28 /lf	17,314
					Structural steel member, W8x31, A992 steel, shop fabricated, incl shop primer, bolted connections	138.00 lf	155	19,202	7,728	-	7,572	-	250.01 /lf	34,502	365.25 /lf	50,404
					Structural steel member, W8x40, A992 steel, shop fabricated, incl shop primer, bolted connections	60.00 lf	67	8,349	5,220	-	3,292	-	281.01 /lf	16,861	412.28 /lf	24,737
					Angles, single or double, floor framing (closure, ledgers, support)	2,080.00 lb	59	7,356	4,098	-	367	-	5.68 /lb	11,821	8.35 /lb	17,374
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	743.00 SF	154	19,181	39,379	-	13,236	-	96.63 /SF	71,796	143.44 /SF	106,576
					Miscellaneous Items and Consumables Allowance	1.00 ls		5,000	10,000	-	5,000	-	20,000.00 /ls	20,000	29,618.34 /ls	29,618
					05.50.05.00 Metals, Gratings	**743.00 SF**	**502**	**67,437**	**68,870**		**32,759**		**227.54 /SF**	**169,065**	**335.45 /SF**	**249,236**
					05.00.004 Metal Grating	**743.00 SF**	**502**	**67,437**	**68,870**		**32,759**		**227.54 /SF**	**169,065**	**335.45 /SF**	**249,236**
			05.00.006		**Access Hatches**											
				05.50.05.20	**Metals, Floor Hatches**											
					Doors, specialty, access, floor, industrial, aluminum, 300 psf L.L., single leaf, 2.5' x 3.5', 100 lb	2.00 EA	8	992	2,650	-	536	-	2,089.07 /EA	4,178	3,114.08 /EA	6,228
					Doors, specialty, access, floor, industrial, aluminum, 150 psf L.L., double leaf, 4' x 8', 295 lb	1.00 EA	8	992	6,000	-	268	-	7,260.14 /EA	7,260	10,923.50 /EA	10,924
					Doors, specialty, access, floor, industrial, aluminum, 150 psf L.L., double leaf, 6' x 8', 442 lb	4.00 EA	32	3,969	34,000	-	1,072	-	9,760.15 /EA	39,041	14,716.42 /EA	58,866
					Miscellaneous Items and Consumables Allowance	1.00 ls		2,000	4,000	-	2,000	-	8,000.00 /ls	8,000	11,847.36 /ls	11,847
					05.50.05.20 Metals, Floor Hatches	**7.00 EA**	**48**	**7,953**	**46,650**		**3,876**		**8,354.12 /EA**	**58,479**	**12,552.10 /EA**	**87,865**
					05.00.006 Access Hatches	**7.00 EA**	**48**	**7,953**	**46,650**		**3,876**		**8,354.12 /EA**	**58,479**	**12,552.10 /EA**	**87,865**
					05.00 Metals	***1.00* LS**	**777**	**103,727**	**144,395**		**37,698**		**285,820.24 /LS**	**285,820**	**423,383.91 /LS**	**423,384**
					05.0 Metals	***1.00* LS**	**777**	**103,727**	**144,395**		**37,698**		**285,820.24 /LS**	**285,820**	**423,383.91 /LS**	**423,384**
	09.0				**Finishes**											
		09.90			**Painting and Coating**											
			09.00.000		**Valve Vault Painting and Coatings**											
				09.00.99.00	**Finishes, Other**											
					Valve Vault and Appurtenances Paintings and Coatings Allowance	1.00 ls	480	43,628	50,000	-	10,400	-	104,027.68 /ls	104,028	153,910.41 /ls	153,910
					09.00.99.00 Finishes, Other	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.41 /LS**	**153,910**
					09.00.000 Valve Vault Painting and Coatings	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.41 /LS**	**153,910**
					09.90 Painting and Coating	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.41 /LS**	**153,910**
					09.0 Finishes	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.41 /LS**	**153,910**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.000		**Valve Vault HVAC**											
				23.00.02.00	**Mechanical, HVAC**											
					Fans,Exhaust Fans 9600 CFM	2.00 ea	50	5,847	50,000	-	2,500	-	29,173.41 /ea	58,347	38,123.70 /ea	76,247
					Electric heating, cabinet unit heaters, ceiling mount, 208 to 480 volt, three pole, 24 kW	1.00 ea	13	1,391	3,275	-	-	-	4,665.89 /ea	4,666	6,044.92 /ea	6,045
					23.00.02.00 Mechanical, HVAC	***1.00* LS**	**63**	**7,238**	**53,275**		**2,500**		**63,012.71 /LS**	**63,013**	**82,292.32 /LS**	**82,292**
					23.00.000 Valve Vault HVAC	***1.00* LS**	**63**	**7,238**	**53,275**		**2,500**		**63,012.71 /LS**	**63,013**	**82,292.32 /LS**	**82,292**
					23.00 HVAC	***1.00* LS**	**63**	**7,238**	**53,275**		**2,500**		**63,012.71 /LS**	**63,013**	**82,292.32 /LS**	**82,292**
					23.0 HVAC	***1.00* LS**	**63**	**7,238**	**53,275**		**2,500**		**63,012.71 /LS**	**63,013**	**82,292.32 /LS**	**82,292**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.00.000		**Electrical**											
				26.00.99.00	**Electrical, Other**											
					Electrical Equipment and Fitout Allowance, Based on Crew, Crew Hours, and Material Allowance	1.00 ls	320	33,381	150,000		21,440	-	204,821.44 /ls	204,821	265,809.64 /ls	265,810
					Site Electrical - Trafo, ductbanks, manholes, cable and FO	1.00 ls	480	50,072	300,000		32,160	-	382,232.16 /ls	382,232	497,502.05 /ls	497,502
					26.00.99.00 Electrical, Other	***1.00* LS**	**800**	**83,454**	**450,000**		**53,600**		**587,053.60 /LS**	**587,054**	**763,311.69 /LS**	**763,312**
					26.00.000 Electrical	***1.00* LS**	**800**	**83,454**	**450,000**		**53,600**		**587,053.60 /LS**	**587,054**	**763,311.69 /LS**	**763,312**
					26.00 Electrical	***1.00* LS**	**800**	**83,454**	**450,000**		**53,600**		**587,053.60 /LS**	**587,054**	**763,311.69 /LS**	**763,312**
					26.0 Electrical Work	***1.00* LS**	**800**	**83,454**	**450,000**		**53,600**		**587,053.60 /LS**	**587,054**	**763,311.69 /LS**	**763,312**
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			31.00.000		**Structural Earthworks**											
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	202.00 cy		-	2,020	0	-	-	10.00 /cy	2,020	13.17 /cy	2,661
					Clearing & grubbing, brush, including stumps	0.25 AC	48	5,174	-	-	5,647	-	43,284.48 /AC	10,821	53,874.80 /AC	13,469
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	202.00 cy	21	2,055	-	-	1,888	-	19.52 /cy	3,943	24.29 /cy	4,907
					31.15.01.00 Site Preparation, Clearing and Grubbing	**0.25 AC**	**69**	**7,229**	**2,020**		**7,534**		**67,134.88 /AC**	**16,784**	**84,146.36 /AC**	**21,037**
				31.15.04.00	**Site Preparation, Erosion Controls**											
					Erosion Controls Allowance	1.00 ls		0	0	50,000	-	-	50,000.00 /ls	50,000	62,233.39 /ls	62,233
					31.15.04.00 Site Preparation, Erosion Controls	***1.00* LS**				**50,000**			**50,000.00 /LS**	**50,000**	**62,233.39 /LS**	**62,233**
				31.16.01.00	**Earthworks, Sheeting and Shoring**											
					Shoring Allowance	11,036.00 SF				717,340	-	-	65.00 /SF	717,340	80.90 /SF	892,850

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.16.01.00 Earthworks, Sheeting and Shoring	**11,036.00 SF**				**717,340**			**65.00 /SF**	**717,340**	**80.90 /SF**	**892,850**
				31.20.06.00	**Earthworks, Sitework, Strip Topsoil**											
					Stripping, strip topsoil, clay, very hard, 400 HP dozer, ideal condtn	65.33 CY	4	432	-	-	1,293	-	26.41 /CY	1,725	32.87 /CY	2,148
					31.20.06.00 Earthworks, Sitework, Strip Topsoil	**65.33 CY**	**4**	**432**			**1,293**		**26.41 /CY**	**1,725**	**32.87 /CY**	**2,148**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	8,950.00 CY	873	96,582	-	-	50,953	-	16.48 /CY	147,535	20.52 /CY	183,632
					Stockpile Excavated Spoils	8,950.00 cy	262	29,781		-	26,416	-	6.28 /cy	56,197	7.82 /cy	69,946
					31.25.01.00 Earthworks, Structural, Excavation	**8,950.00 CY**	**1,135**	**126,362**			**77,369**		**22.76 /CY**	**203,732**	**28.33 /CY**	**253,578**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	302.00 CY	66	6,393	13,439	-	402	-	67.00 /CY	20,235	86.62 /CY	26,160
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**302.00 CY**	**66**	**6,393**	**13,439**		**402**		**67.00 /CY**	**20,235**	**86.62 /CY**	**26,160**
				31.25.03.00	**Earthworks, Structural, Backfill Native Fill**											
					Fill, from stockpile, 130 H.P., 2-1/2 C.Y., 300' haul, spread fill, with front-end loader, excludes compaction	3,590.00 CY	62	6,997	-	-	6,579	-	3.78 /CY	13,576	4.71 /CY	16,897
					Fill from Stockpile	3,590.00 cy	105	11,945		-	10,596	-	6.28 /cy	22,541	7.82 /cy	28,057
					31.25.03.00 Earthworks, Structural, Backfill Native Fill	**3,590.00 CY**	**167**	**18,942**			**17,175**		**10.06 /CY**	**36,117**	**12.52 /CY**	**44,954**
				31.25.03.10	**Earthworks, Structural, Compaction**											
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	3,590.00 CY	62	6,997	-	-	4,004	-	3.06 /CY	11,001	3.81 /CY	13,692
					Compaction, water for, 3000 gallon truck, 3 mile haul	3,590.00 cy	30	3,411	4,272	-	1,771	-	2.63 /cy	9,454	3.36 /cy	12,077
					31.25.03.10 Earthworks, Structural, Compaction	**3,590.00 CY**	**92**	**10,407**	**4,272**		**5,775**		**5.70 /CY**	**20,455**	**7.18 /CY**	**25,769**
				32.40.11.01	**Surface Restorations**											
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	1,210.00 SY	58	5,635	678	-	342	-	5.50 /SY	6,655	6.89 /SY	8,332
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	1,210.00 sy	24	2,522	2,686	-	1,107	-	5.22 /sy	6,315	6.66 /sy	8,055
					32.40.11.01 Surface Restorations	**1,210.00 SY**	**82**	**8,157**	**3,364**		**1,449**		**10.72 /SY**	**12,970**	**13.54 /SY**	**16,387**
					31.00.000 Structural Earthworks	**16,497.33 CY**	**1,614**	**177,923**	**23,095**	**767,340**	**110,999**		**65.43 /CY**	**1,079,357**	**81.54 /CY**	**1,345,115**
					31.20 Earthworks, Site	**16,497.33 CY**	**1,614**	**177,923**	**23,095**	**767,340**	**110,999**		**65.43 /CY**	**1,079,357**	**81.54 /CY**	**1,345,115**
					31.0 Earthwork	***1.00* LS**	**1,614**	**177,923**	**23,095**	**767,340**	**110,999**		**1,079,357.02 /LS**	**1,079,357**	**1,345,115.22 /LS**	**1,345,115**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.000		**Valve Vault Piping and Appurtenances**											
				40.00.99.01	**Process Pipe, Other**											
					Butterfly valve, iron body, Flgd, MTR OPER, 150#, 144"	4.00 ea	448	46,673	728,000	-	9,533	-	196,051.65 /ea	784,207	257,214.16 /ea	1,028,857
					Butterfly valve, iron body, Flgd, MTR OPER, 150#, 78"	2.00 ea	224	23,337	220,000	-	4,767	-	124,051.65 /ea	248,103	162,378.08 /ea	324,756
					Ball valve, Flgd, 10"	4.00 ea	128	13,107	38,400	-	2,400	-	13,476.64 /ea	53,907	17,469.94 /ea	69,880
					Plunger valve, Flgd, 10"	4.00 ea	128	13,107	49,200	-	2,400	-	16,176.64 /ea	64,707	21,026.29 /ea	84,105
					12" CARV With Swivel Outlet	10.00 ea	320	32,766	110,000	-	6,000	-	14,876.64 /ea	148,766	19,313.97 /ea	193,140
					144" Restrained Couplings	4.00 ea	640	65,533	580,000	-	12,000	-	164,383.20 /ea	657,533	215,114.97 /ea	860,460
					Gasket and bolt set, for flanges, 150 lb., 144" pipe size	8.00 ea	128	14,780	42,000	-	-	-	7,097.54 /ea	56,780	9,214.70 /ea	73,718
					Flange, steel, forged steel, weld neck, 150 lb., 144" pipe size, includes 1 weld per joint and weld machine	8.00 ea	576	60,009	90,000	-	28,600	-	22,326.05 /ea	178,608	28,604.14 /ea	228,833
					Piping and Appurtenances	1.00 ls	2,240	233,367	350,000	-	95,332	-	678,698.88 /ls	678,699	870,129.59 /ls	870,130
					40.00.99.01 Process Pipe, Other	***1.00* LS**	**4,832**	**502,679**	**2,207,600**		**161,031**		**2,871,309.75 /LS**	**2,871,310**	**3,733,877.58 /LS**	**3,733,878**
					40.00.000 Valve Vault Piping and Appurtenances	***1.00* LS**	**4,832**	**502,679**	**2,207,600**		**161,031**		**2,871,309.75 /LS**	**2,871,310**	**3,733,877.58 /LS**	**3,733,878**
					40.11 Process Pipe, Carbon Steel	***212.00* LF**	**4,832**	**502,679**	**2,207,600**		**161,031**		**13,543.91 /LF**	**2,871,310**	**17,612.63 /LF**	**3,733,878**
					40.0 Process Pipe	***1.00* LS**	**4,832**	**502,679**	**2,207,600**		**161,031**		**2,871,309.75 /LS**	**2,871,310**	**3,733,877.58 /LS**	**3,733,878**
	40.9				**Instrumentation & Controls**											
		40.90			**Instrumentation & Controls**											
			40.90.000		**I&C**											
				40.90.99.01	**I&C, Other**											
					I&C Allowance, Based on 8% of Total	1.00 ls		0	0	494,000	-	-	494,000.00 /ls	494,000	614,865.86 /ls	614,866
					40.90.99.01 I&C, Other	***1.00* LS**				**494,000**			**494,000.00 /LS**	**494,000**	**614,865.86 /LS**	**614,866**
					40.90.000 I&C	***1.00* LS**				**494,000**			**494,000.00 /LS**	**494,000**	**614,865.86 /LS**	**614,866**
					40.90 Instrumentation & Controls	***1.00* LS**				**494,000**			**494,000.00 /LS**	**494,000**	**614,865.86 /LS**	**614,866**
					40.9 Instrumentation & Controls	***1.00* LS**				**494,000**			**494,000.00 /LS**	**494,000**	**614,865.86 /LS**	**614,866**
					2030 Valve Vault	***1.00* LS**	**18,187**	**1,955,131**	**4,110,919**	**1,261,340**	**417,631**		**7,745,020.85 /LS**	**7,745,021**	**10,468,076.69 /LS**	**10,468,077**
2040					**Environmental Water Pipeline Dissipation Structure**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			03.00.000		**Slab on Grade @ El 235.00**											
				03.10.05.24	**Cast-In-Place Concrete, Slabs on Grade, 24" thick**											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	332.00 sfca	30	3,171	787	-	-	-	11.92 /sfca	3,958	17.39 /sfca	5,775
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.20 ton	179	20,967	16,800	-	-	-	3,372.03 /ton	37,767	4,980.22 /ton	55,778
					Reinforcing in place, unloading & sorting, add to above - slabs	11.20 ton	6	748	-	-	260	-	89.94 /ton	1,007	129.94 /ton	1,455
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	132.00 cy		-	29,700	-	-	-	225.00 /cy	29,700	341.36 /cy	45,060
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	128.00 CY	84	8,064	-	-	795	-	69.20 /CY	8,858	99.98 /CY	12,797
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&Mn val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	1,722.00 sf	24	2,198	-	-	88	-	1.33 /sf	2,286	1.92 /sf	3,303
					Curing, sprayed membrane curing compound	17.22 csf	3	264	276	-	-	-	31.33 /csf	539	46.42 /csf	799
					Fine grading, fine grade for slab on grade, machine	191.33 sy	3	318	-	-	205	-	2.73 /sy	523	3.95 /sy	755
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	**128.00 CY**	**330**	**35,729**	**47,562**		**1,347**		**661.23 /CY**	**84,638**	**982.20 /CY**	**125,722**
					03.00.000 Slab on Grade @ El 235.00	**128.00 CY**	**330**	**35,729**	**47,562**		**1,347**		**661.23 /CY**	**84,638**	**982.20 /CY**	**125,722**
			03.00.002		**Slab on Grade @ El 202.00**											
				03.10.05.36	**Cast-In-Place Concrete, Slabs on Grade, 36" thick**											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	300.00 sfca	27	2,865	711	-	-	-	11.92 /sfca	3,576	17.39 /sfca	5,218

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	80	9,360	7,500	-	-	-	3,372.03 /ton	16,860	4,980.22 /ton	24,901
					Reinforcing in place, unloading & sorting, add to above - slabs	5.00 ton	3	334	-	-	116	-	89.94 /ton	450	129.94 /ton	650
					Reinforcing in place, crane cost for handling, add to above, slabs	5.00 ton	3	363	-	-	126	-	97.76 /ton	489	141.24 /ton	706
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	59.00 cy		-	13,275	-	-	-	225.00 /cy	13,275	341.36 /cy	20,140
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	57.00 CY	38	3,591	-	-	354	-	69.20 /CY	3,945	99.98 /CY	5,699
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&Mn val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	505.00 sf	7	645	-	-	26	-	1.33 /sf	670	1.92 /sf	969
					Curing, sprayed membrane curing compound	5.05 csf	1	77	81	-	-	-	31.33 /csf	158	46.41 /csf	234
					Fine grading, fine grade for slab on grade, machine	56.11 sy	1	93	-	-	60	-	2.73 /sy	153	3.95 /sy	221
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	**57.00 CY**	**160**	**17,328**	**21,567**		**682**		**694.32 /CY**	**39,576**	**1,030.50 /CY**	**58,738**
					03.00.002 Slab on Grade @ El 202.00	**57.00 CY**	**160**	**17,328**	**21,567**		**682**		**694.32 /CY**	**39,576**	**1,030.50 /CY**	**58,738**
			03.00.004		**Slab on Grade @ El 220.00**											
				03.10.05.24	Cast-In-Place Concrete, Slabs on Grade, 24" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	224.00 sfca	20	2,139	531	-	-	-	11.92 /sfca	2,670	17.39 /sfca	3,896
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	4.50 ton	72	8,424	6,750	-	-	-	3,372.03 /ton	15,174	4,980.22 /ton	22,411
					Reinforcing in place, unloading & sorting, add to above - slabs	4.50 ton	3	300	-	-	104	-	89.94 /ton	405	129.93 /ton	585
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	53.00 cy		-	11,925	-	-	-	225.00 /cy	11,925	341.36 /cy	18,092
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	51.00 CY	34	3,213	-	-	317	-	69.20 /CY	3,529	99.97 /CY	5,099
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&Mn val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	678.00 sf	9	866	-	-	35	-	1.33 /sf	900	1.92 /sf	1,300
					Curing, sprayed membrane curing compound	6.78 csf	1	104	108	-	-	-	31.33 /csf	212	46.42 /csf	315
					Fine grading, fine grade for slab on grade, machine	75.33 sy	1	125	-	-	81	-	2.73 /sy	206	3.95 /sy	297
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	**51.00 CY**	**140**	**15,171**	**19,314**		**536**		**686.70 /CY**	**35,022**	**1,019.51 /CY**	**51,995**
					03.00.004 Slab on Grade @ El 220.00	**51.00 CY**	**140**	**15,171**	**19,314**		**536**		**686.70 /CY**	**35,022**	**1,019.51 /CY**	**51,995**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**236.00 CY**	**630**	**68,228**	**88,444**		**2,564**		**674.73 /CY**	**159,236**	**1,001.93 /CY**	**236,455**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			03.00.006		**Concrete Walls 2' Thick**											
				03.10.06.24	Cast-In-Place Concrete, Straight Walls, 24" thick											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	16,416.00 sfca	1,732	184,538	89,467	-	-	-	16.69 /sfca	274,005	24.51 /sfca	402,332
					Form oil, coverage varies greatly, maximum, includes material only	44.00 gal		-	1,210	-	-	-	27.50 /gal	1,210	41.72 /gal	1,836
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	53.25 ton	852	99,686	79,875	-	-	-	3,372.03 /ton	179,561	4,980.22 /ton	265,196
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	53.25 ton	30	3,555	-	-	1,235	-	89.94 /ton	4,789	129.94 /ton	6,919
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	53.25 ton	32	3,864	-	-	1,342	-	97.76 /ton	5,206	141.24 /ton	7,521
					Concrete, ready mix, regular weight, walls/cols/beams, 5000 psi	627.00 cy		-	156,750	-	-	-	250.00 /cy	156,750	379.29 /cy	237,816
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	608.00 CY	514	49,210	-	-	5,818	-	90.51 /CY	55,028	130.75 /CY	79,498
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	16,416.00 sf	292	26,657	492	-	-	-	1.65 /sf	27,150	2.39 /sf	39,258
					Bulkhead Embeds	6.00 ea	192	23,989	30,000	-	900	-	9,148.28 /ea	54,890	13,578.73 /ea	81,472
					1/2" thick SST Wear Plates, Embeded in Concrete Wall Bases	480.00 sf	160	19,991	72,000	-	750	-	193.21 /sf	92,741	290.00 /sf	139,201
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	**608.00 CY**	**3,804**	**411,490**	**429,795**		**10,046**		**1,400.21 /CY**	**851,330**	**2,074.09 /CY**	**1,261,049**
					03.00.006 Concrete Walls 2' Thick	**608.00 CY**	**3,804**	**411,490**	**429,795**		**10,046**		**1,400.21 /CY**	**851,330**	**2,074.09 /CY**	**1,261,049**
					03.20 Cast-In-Place Concrete, Straight Walls	**608.00 CY**	**3,804**	**411,490**	**429,795**		**10,046**		**1,400.21 /CY**	**851,330**	**2,074.09 /CY**	**1,261,049**
					03.0 Concrete Work	**844.00 CY**	**4,434**	**479,718**	**518,238**		**12,610**		**1,197.35 /CY**	**1,010,566**	**1,774.29 /CY**	**1,497,505**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	175.00 LF	35	4,373	10,938	-	164	-	88.43 /LF	15,475	132.28 /LF	23,149
					24" Self Closing Gate	8.00 ea	64	7,996	6,000	-	300	-	1,787.07 /ea	14,297	2,636.10 /ea	21,089
					05.50.04.10 Metals, Pipe and Tube Railings	**175.00 LF**	**99**	**12,369**	**16,938**		**464**		**170.12 /LF**	**29,771**	**252.79 /LF**	**44,238**
					05.00.000 Hand Railing	**175.00 LF**	**99**	**12,369**	**16,938**		**464**		**170.12 /LF**	**29,771**	**252.79 /LF**	**44,238**
			05.00.002		**Ladders**											
				05.50.03.20	Metal Ladders, Steel w/o Cage											
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage includes walkthrough	8.00 EA	64	7,996	6,400	-	300	-	1,837.07 /EA	14,697	2,711.95 /EA	21,696
					05.50.03.20 Metal Ladders, Steel w/o Cage	**8.00 EA**	**64**	**7,996**	**6,400**		**300**		**1,837.07 /EA**	**14,697**	**2,711.95 /EA**	**21,696**
					05.00.002 Ladders	**8.00 EA**	**64**	**7,996**	**6,400**		**300**		**1,837.07 /EA**	**14,697**	**2,711.95 /EA**	**21,696**
			05.00.004		**Metal Grating**											
				05.50.05.00	Metals, Gratings											
					Grating frame, field fabricated	88.00 lf	21	2,568	704	-	-	-	37.18 /lf	3,272	54.29 /lf	4,778
					Grating frame, field fabricated, for each corner, add	16.00 ea		-	160	-	-	-	10.00 /ea	160	15.17 /ea	243
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	154.00 SF	32	3,976	8,162	-	2,743	-	96.63 /SF	14,881	143.44 /SF	22,090
					05.50.05.00 Metals, Gratings	**154.00 SF**	**53**	**6,544**	**9,026**		**2,743**		**118.92 /SF**	**18,313**	**176.04 /SF**	**27,111**
					05.00.004 Metal Grating	**154.00 SF**	**53**	**6,544**	**9,026**		**2,743**		**118.92 /SF**	**18,313**	**176.04 /SF**	**27,111**
					05.00 Metals	***1.00* LS**	**216**	**26,909**	**32,364**		**3,508**		**62,780.78 /LS**	**62,781**	**93,043.70 /LS**	**93,044**
					05.0 Metals	***1.00* LS**	**216**	**26,909**	**32,364**		**3,508**		**62,780.78 /LS**	**62,781**	**93,043.70 /LS**	**93,044**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.00.000		**Electrical**											
				26.00.99.00	Electrical, Other											
					Electrical Allowance, Based on 20% of Total	1.00 ls				750,000	-	-	750,000.00 /ls	750,000	933,500.80 /ls	933,501
					26.00.99.00 Electrical, Other	***1.00* LS**				**750,000**			**750,000.00 /LS**	**750,000**	**933,500.80 /LS**	**933,501**
					26.00.000 Electrical	***1.00* LS**				**750,000**			**750,000.00 /LS**	**750,000**	**933,500.80 /LS**	**933,501**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.00 Electrical	***1.00*** **LS**				**750,000**			**750,000.00 /LS**	**750,000**	**933,500.80 /LS**	**933,501**
					26.0 Electrical Work	***1.00*** **LS**				**750,000**			**750,000.00 /LS**	**750,000**	**933,500.80 /LS**	**933,501**
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			31.00.000		**Structural Earthworks**											
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	122.00 cy		-	1,220		-	-	10.00 /cy	1,220	13.17 /cy	1,607
					Clearing & grubbing, brush, including stumps	0.15 AC	29	3,105	-	-	3,388	-	43,284.47 /AC	6,493	53,874.80 /AC	8,081
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	122.00 cy	13	1,241	-	-	1,140	-	19.52 /cy	2,381	24.29 /cy	2,964
					31.15.01.00 Site Preparation, Clearing and Grubbing	**0.15 AC**	**41**	**4,346**	**1,220**		**4,528**		**67,292.27 /AC**	**10,094**	**84,346.27 /AC**	**12,652**
				31.15.04.00	**Site Preparation, Erosion Controls**											
					Erosion Controls Allowance	1.00 ls				15,000	-	-	15,000.00 /ls	15,000	18,670.00 /ls	18,670
					31.15.04.00 Site Preparation, Erosion Controls	***1.00*** **LS**				**15,000**			**15,000.00 /LS**	**15,000**	**18,670.00 /LS**	**18,670**
				31.16.01.00	**Earthworks, Sheeting and Shoring**											
					Shoring Allowance	5,400.00 SF				351,000	-	-	65.00 /SF	351,000	80.90 /SF	436,878
					31.16.01.00 Earthworks, Sheeting and Shoring	**5,400.00 SF**				**351,000**			**65.00 /SF**	**351,000**	**80.90 /SF**	**436,878**
				31.20.06.00	**Earthworks, Sitework, Strip Topsoil**											
					Stripping, strip topsoil, clay, very hard, 400 HP dozer, ideal condtn	60.00 CY	4	397	-	-	1,188	-	26.41 /CY	1,585	32.87 /CY	1,972
					31.20.06.00 Earthworks, Sitework, Strip Topsoil	**60.00 CY**	**4**	**397**			**1,188**		**26.41 /CY**	**1,585**	**32.87 /CY**	**1,972**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	3,160.00 CY	308	34,100	-	-	17,990	-	16.48 /CY	52,091	20.52 /CY	64,835
					Stockpile Excavated Spoils	3,160.00 cy	92	10,515		-	9,327	-	6.28 /cy	19,842	7.82 /cy	24,696
					31.25.01.00 Earthworks, Structural, Excavation	**3,160.00 CY**	**401**	**44,615**			**27,317**		**22.76 /CY**	**71,932**	**28.33 /CY**	**89,532**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	124.00 CY	27	2,625	5,518	-	165	-	67.00 /CY	8,308	86.62 /CY	10,741
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**124.00 CY**	**27**	**2,625**	**5,518**		**165**		**67.00 /CY**	**8,308**	**86.62 /CY**	**10,741**
				31.25.03.00	**Earthworks, Structural, Backfill Native Fill**											
					Fill, from stockpile, 130 H.P., 2-1/2 C.Y., 300' haul, spread fill, with front-end loader, excludes compaction	2,100.00 CY	36	4,093	-	-	3,849	-	3.78 /CY	7,941	4.71 /CY	9,884
					Fill from Stockpile	2,100.00 cy	61	6,988		-	6,198	-	6.28 /cy	13,186	7.82 /cy	16,412
					31.25.03.00 Earthworks, Structural, Backfill Native Fill	**2,100.00 CY**	**97**	**11,080**			**10,047**		**10.06 /CY**	**21,127**	**12.52 /CY**	**26,296**
				31.25.03.10	**Earthworks, Structural, Compaction**											
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	2,100.00 CY	36	4,093	-	-	2,342	-	3.06 /CY	6,435	3.81 /CY	8,009
					Compaction, water for, 3000 gallon truck, 3 mile haul	2,100.00 cy	18	1,995	2,499	-	1,036	-	2.63 /cy	5,530	3.36 /cy	7,064
					31.25.03.10 Earthworks, Structural, Compaction	**2,100.00 CY**	**54**	**6,088**	**2,499**		**3,378**		**5.70 /CY**	**11,965**	**7.18 /CY**	**15,074**
				32.40.11.01	**Surface Restorations**											
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	726.00 SY	35	3,381	407	-	205	-	5.50 /SY	3,993	6.89 /SY	4,999
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	726.00 sy	14	1,513	1,612	-	664	-	5.22 /sy	3,789	6.66 /sy	4,833
					32.40.11.01 Surface Restorations	**726.00 SY**	**49**	**4,894**	**2,018**		**869**		**10.72 /SY**	**7,782**	**13.54 /SY**	**9,832**
					31.00.000 Structural Earthworks	**7,544.00 CY**	**673**	**74,045**	**11,255**	**366,000**	**47,493**		**66.12 /CY**	**498,793**	**82.40 /CY**	**621,647**
					31.20 Earthworks, Site	**7,544.00 CY**	**673**	**74,045**	**11,255**	**366,000**	**47,493**		**66.12 /CY**	**498,793**	**82.40 /CY**	**621,647**
					31.0 Earthwork	***1.00*** **LS**	**673**	**74,045**	**11,255**	**366,000**	**47,493**		**498,792.91 /LS**	**498,793**	**621,647.46 /LS**	**621,647**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.002		**Environmental Water Discharge Structure Piping and Appurtenances**											
				40.00.99.01	**Process Pipe, Other**											
					Wall Pipe, CS, PExPE, 16"	2.00 ea	6	689	827	-	-	-	758.02 /ea	1,516	973.46 /ea	1,947
					Wall Pipe, CS, PExPE, 24"	2.00 ea	8	918	1,339	-	-	-	1,128.46 /ea	2,257	1,453.10 /ea	2,906
					Wall Pipe, CS, PExPE, 34"	1.00 ea	5	516	1,170	-	-	-	1,686.22 /ea	1,686	2,183.58 /ea	2,184
					42" CS Ell, 90	1.00 ea	9	1,067	3,605	-	-	-	4,672.37 /ea	4,672	6,076.91 /ea	6,077
					42" x 24" CS tee	2.00 ea	19	2,135	7,475	-	-	-	4,804.87 /ea	9,610	6,251.44 /ea	12,503
					Wall Pipe, CS, PExPE, 42"	1.00 ea	5	516	1,565	-	-	-	2,081.45 /ea	2,081	2,704.18 /ea	2,704
					Butterfly valve, iron body, Flgd, MTR OPER, 250#, 24"	2.00 ea	48	5,431	25,840	-	1,200	-	16,235.34 /ea	32,471	21,144.29 /ea	42,289
					24" Mag Meter	2.00 ea	96	10,861	35,800	-	1,200	-	23,930.67 /ea	47,861	31,083.49 /ea	62,167
					42" Ball Valve	1.00 ea	48	5,431	46,400	-	600	-	52,430.67 /ea	52,431	68,622.75 /ea	68,623
					42" Mag Meter	1.00 ea	48	5,431	32,216	-	600	-	38,246.67 /ea	38,247	49,940.07 /ea	49,940
					34 x 30 Vertical Sleeve Valve, Bailey Valve Quote July 31, 2023	1.00 ea	72	8,146	527,000	-	1,800	-	536,946.01 /ea	536,946	706,526.85 /ea	706,527
					16 x 14 Vertical Sleeve Valve, Bailey Valve Quote July 31, 2023	2.00 ea	144	16,292	456,000	-	3,600	-	237,946.01 /ea	475,892	312,693.72 /ea	625,387
					Piping Fittings and Appurtenances	1.00 ls	560	58,342	75,000	-	23,833	-	157,174.72 /ls	157,175	201,067.80 /ls	201,068
					40.00.99.01 Process Pipe, Other	***1.00*** **LS**	**1,067**	**115,775**	**1,214,237**		**32,833**		**1,362,844.83 /LS**	**1,362,845**	**1,784,321.14 /LS**	**1,784,321**
					40.00.002 Environmental Water Discharge Structure Piping and Appurtenances	***1.00*** **LS**	**1,067**	**115,775**	**1,214,237**		**32,833**		**1,362,844.83 /LS**	**1,362,845**	**1,784,321.14 /LS**	**1,784,321**
					40.11 Process Pipe, Carbon Steel	***230.00*** **LF**	**1,067**	**115,775**	**1,214,237**		**32,833**		**5,925.41 /LF**	**1,362,845**	**7,757.92 /LF**	**1,784,321**
					40.0 Process Pipe	***1.00*** **LS**	**1,067**	**115,775**	**1,214,237**		**32,833**		**1,362,844.83 /LS**	**1,362,845**	**1,784,321.14 /LS**	**1,784,321**
	40.9				**Instrumentation & Controls**											
		40.90			**Instrumentation & Controls**											
			40.90.000		**I&C**											
				40.90.99.01	**I&C, Other**											
					I&C Allowance, Based on 8% of Total	1.00 ls				300,000	-	-	300,000.00 /ls	300,000	373,400.32 /ls	373,400
					40.90.99.01 I&C, Other	***1.00*** **LS**				**300,000**			**300,000.00 /LS**	**300,000**	**373,400.32 /LS**	**373,400**
					40.90.000 I&C	***1.00*** **LS**				**300,000**			**300,000.00 /LS**	**300,000**	**373,400.32 /LS**	**373,400**
					40.90 Instrumentation & Controls	***1.00*** **LS**				**300,000**			**300,000.00 /LS**	**300,000**	**373,400.32 /LS**	**373,400**
					40.9 Instrumentation & Controls	***1.00*** **LS**				**300,000**			**300,000.00 /LS**	**300,000**	**373,400.32 /LS**	**373,400**
	44.0				**Pollution and Waste Control Equipment**											
		44.40			**Process Equipment - Pumps**											
			44.05.51.0010		**Sump Pump**											
				44.05.51.00	**Sump Pumps**											
					Sump Pumps w/ Duplex Controls	1.00 EA	8		15,000	-	-	-	15,000.00 /EA	15,000	19,757.52 /EA	19,758
					44.05.51.00 Sump Pumps	**1.00 EA**	**8**		**15,000**				**15,000.00 /EA**	**15,000**	**19,757.52 /EA**	**19,758**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					44.05.51.0010 Sump Pump	**1.00 EA**	**8**		**15,000**				**15,000.00 /EA**	**15,000**	**19,757.52 /EA**	**19,758**
					44.40 Process Equipment - Pumps	**1.00 EA**	**8**		**15,000**				**15,000.00 /EA**	**15,000**	**19,757.52 /EA**	**19,758**
					44.0 Pollution and Waste Control Equipment	**1.00 EA**	**8**		**15,000**				**15,000.00 /EA**	**15,000**	**19,757.52 /EA**	**19,758**
					2040 Environmental Water Pipeline Dissipation Structure	***1.00*** **LS**	**6,398**	**696,447**	**1,791,094**	**1,416,000**	**96,444**		**3,999,984.78 /LS**	**3,999,985**	**5,323,175.67 /LS**	**5,323,176**
2041					**Environmental Water Pipeline**											
	33.1				**Pipelines**											
		33.03			**Buried Process Pipe, Carbon Steel**											
			33.00.05.EW42		**Environmental Pipeline 42" WSP**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Rent trench box 12,000 pounds 10' x 20'	45.00 day		-	-	-	8,815	-	195.88 /day	8,815	243.81 /day	10,971
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	1,193.16 cy		-	89,487	-	-	-	75.00 /cy	89,487	98.79 /cy	117,869
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	1,193.16 cy	318	30,465	-	-	5,709	-	30.32 /cy	36,174	37.74 /cy	45,025
					Excavating, trench or continuous footing, dense hard clay, 3 C.Y. excavator, 14' to 20' deep, excludes sheeting or dewatering	6,223.81 CY	113	12,517	-	-	17,274	-	4.79 /CY	29,790	5.96 /CY	37,079
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	3,928.04 ecy	314	35,725	-	-	4,208	-	10.17 /ecy	39,933	12.65 /ecy	49,703
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	236.35 lcy	38	3,851	4,278	-	446	-	36.28 /lcy	8,575	46.47 /lcy	10,983
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	2,295.33 lcy	471	46,700	-	-	47,507	-	41.04 /lcy	94,207	51.08 /lcy	117,256
					31.00.01.01 Trenching, Backfill, and Compaction	**6,223.81 CY**	**1,254**	**129,258**	**93,765**		**83,957**		**49.32 /CY**	**306,980**	**62.48 /CY**	**388,887**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	1,283.03 cy		-	12,830		-	-	10.00 /cy	12,830	13.17 /cy	16,900
					Clearing & grubbing, brush, including stumps	3.18 AC	305	32,909	-	-	35,913	-	21,642.24 /AC	68,822	26,937.40 /AC	85,661
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	1,283.03 cy	132	13,051	-	-	11,991	-	19.52 /cy	25,042	24.29 /cy	31,169
					31.15.01.00 Site Preparation, Clearing and Grubbing	**3.18 AC**	**437**	**45,961**	**12,830**		**47,904**		**33,551.76 /AC**	**106,695**	**42,053.30 /AC**	**133,730**
				32.40.11.01	**Surface Restorations**											
					Final Grading	15,396.33 SY	246	26,609	-	-	17,136	-	2.84 /SY	43,745	3.54 /SY	54,448
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	15,396.33 sy	739	71,704	8,622	-	4,353	-	5.50 /sy	84,679	6.89 /sy	106,022
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	15,396.33 sy	305	32,087	34,180	-	14,085	-	5.22 /sy	80,351	6.66 /sy	102,489
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	15,396.33 sy	83	8,736	32,640	-	3,835	-	2.94 /sy	45,210	3.81 /sy	58,638
					32.40.11.01 Surface Restorations	**15,396.33 SY**	**1,374**	**139,135**	**75,442**		**39,409**		**16.50 /SY**	**253,986**	**20.89 /SY**	**321,597**
				33.00.05.042	**Buried Pipe, WSP, 42"**											
					42" CS butt weld, 1/4" wall	122.00 ea		-	-	49,166	-	-	403.00 /ea	49,166	501.60 /ea	61,195
					Piping, WSP 0.250" Wt Polyurethane Lined and Coated, 42" diameter	2,431.00 LF	4,862	506,533	525,096	-	120,704	-	474.02 /LF	1,152,333	605.65 /LF	1,472,341
					Dewatering Allowance	15.80 msf				47,400			3,000.00 /msf	47,400	3,734.00 /msf	58,997
					Erosion and Dust Controls Allowance	61.00 DY				305,000			5,000.00 /DY	305,000	6,223.34 /DY	379,624
					33.00.05.042 Buried Pipe, WSP, 42"	**2,431.00 LF**	**4,862**	**506,533**	**525,096**	**401,566**	**120,704**		**639.20 /LF**	**1,553,899**	**811.25 /LF**	**1,972,157**
					33.00.05.EW42 Environmental Pipeline 42" WSP	**2,431.00 LF**	**7,927**	**820,887**	**707,133**	**401,566**	**291,974**		**913.85 /LF**	**2,221,560**	**1,158.52 /LF**	**2,816,371**
					33.03 Buried Process Pipe, Carbon Steel	**2,431.00 LF**	**7,927**	**820,887**	**707,133**	**401,566**	**291,974**		**913.85 /LF**	**2,221,560**	**1,158.52 /LF**	**2,816,371**
					33.1 Pipelines	**2,431.00 LF**	**7,927**	**820,887**	**707,133**	**401,566**	**291,974**		**913.85 /LF**	**2,221,560**	**1,158.52 /LF**	**2,816,371**
					2041 Environmental Water Pipeline	**2,431.00 LF**	**7,927**	**820,887**	**707,133**	**401,566**	**291,974**		**913.85 /LF**	**2,221,560**	**1,158.52 /LF**	**2,816,371**
2120					**Funks/TRR Connection Manifold**											
	33.1				**Pipelines**											
		33.03			**Buried Process Pipe, Carbon Steel**											
			33.10.006		**Funks/TRR Connection Manifold**											
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	293.00 cy		-	2,930		-	-	10.00 /cy	2,930	13.17 /cy	3,859
					Clearing & grubbing, brush, including stumps	0.36 AC	35	3,726	-	-	4,066	-	21,642.25 /AC	7,791	26,937.47 /AC	9,697
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	293.00 cy	30	2,980	-	-	2,738	-	19.52 /cy	5,719	24.29 /cy	7,118
					31.15.01.00 Site Preparation, Clearing and Grubbing	**0.36 AC**	**65**	**6,706**	**2,930**		**6,804**		**45,666.50 /AC**	**16,440**	**57,429.69 /AC**	**20,675**
				32.40.11.01	**Surface Restorations**											
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	1,738.00 SY	83	8,094	973	-	491	-	5.50 /SY	9,559	6.89 /SY	11,968
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	1,738.00 sy	34	3,622	3,858	-	1,590	-	5.22 /sy	9,070	6.66 /sy	11,569
					32.40.11.01 Surface Restorations	**1,738.00 SY**	**118**	**11,716**	**4,832**		**2,081**		**10.72 /SY**	**18,629**	**13.54 /SY**	**23,538**
				33.10.99.01	**Buried Pipe Specials, Other**											
					Butterfly valve, iron body, Flgd, MTR OPER, 150#, 144"	5.00 ea	320	32,766	850,000	-	3,000	-	177,153.28 /ea	885,766	232,821.97 /ea	1,164,110
					Gasket and bolt set, for flanges, 150 lb., 144" pipe size	10.00 ea	160	18,475	52,500	-	-	-	7,097.54 /ea	70,975	9,214.70 /ea	92,147
					Reducer, steel, butt weld, 23' x 17'	2.00 ea	96	10,861	108,800	-	600	-	60,130.80 /ea	120,262	78,786.87 /ea	157,574
					Reducer, steel, butt weld, 17' x 12'	4.00 ea	192	21,723	132,800	-	1,201	-	38,930.80 /ea	155,723	50,862.91 /ea	203,452
					Wye, steel, butt weld, 17' Dia	2.00 ea	96	10,861	116,000	-	600	-	63,730.80 /ea	127,462	83,528.68 /ea	167,057
					Elbow, 45 deg, steel, butt weld, 17' Dia	2.00 ea	96	10,861	64,000	-	600	-	37,730.80 /ea	75,462	49,282.31 /ea	98,565
					Flange, steel, forged steel, weld neck, 150 lb., 144" pipe size, includes 1 weld per joint and weld machine	10.00 ea	720	81,460	112,500	-	4,502	-	19,846.20 /ea	198,462	25,517.55 /ea	255,176
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, 14' to 20' deep, excludes sheeting or dewatering	31,810.00 cy	795	87,963	-	-	85,358	-	5.45 /cy	173,321	6.78 /cy	215,727
					Pipe bedding and zone, CLSM	7,760.00 cy	517	49,534	582,000	-	6,188	-	82.18 /cy	637,722	107.73 /cy	835,948
					Backfill native material	24,270.00 cy	1,820	206,939	0	-	45,890	-	10.42 /cy	252,829	12.97 /cy	314,688
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	7,540.00 cy	773	76,699	-	-	70,465	-	19.52 /cy	147,164	24.29 /cy	183,171
					Load excavated spoils	7,540.00 cy	71	8,036		-	7,128	-	2.01 /cy	15,165	2.50 /cy	18,875
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	24,270.00 cy	243	27,592	-	-	15,791	-	1.79 /cy	43,383	2.22 /cy	53,997
					Compaction, water for, 6000 gallon wagon, 6 mile haul	24,270.00 cy	121	12,036	29,124	-	7,877	-	2.02 /cy	49,037	2.60 /cy	63,147
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	146.00 LF	409	42,589	297,156	-	17,398	-	2,446.19 /LF	357,143	3,192.25 /LF	466,068
					Erosion Controls Allowance	500.00 lf				27,500			55.00 /lf	27,500	68.46 /lf	34,228
					Dewatering Allowance	15.00 msf				135,000			9,000.00 /msf	135,000	11,202.01 /msf	168,030

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					33.10.99.01 Buried Pipe Specials, Other	146.00 LF	6,430	698,398	2,344,880	162,500	266,599		23,783.40 /LF	3,472,377	30,766.84 /LF	4,491,959
					33.10.006 Funks/TRR Connection Manifold	**146.00 LF**	**6,612**	**716,820**	**2,352,641**	**162,500**	**275,485**		**24,023.60 /LF**	**3,507,446**	**31,069.66 /LF**	**4,536,171**
					33.03 Buried Process Pipe, Carbon Steel	146.00 LF	6,612	716,820	2,352,641	162,500	275,485		24,023.60 /LF	3,507,446	31,069.66 /LF	4,536,171
					33.1 Pipelines	146.00 LF	6,612	716,820	2,352,641	162,500	275,485		24,023.60 /LF	3,507,446	31,069.66 /LF	4,536,171
					2120 Funks/TRR Connection Manifold	***1.00*** **LS**	**6,612**	**716,820**	**2,352,641**	**162,500**	**275,485**		**3,507,445.77 /LS**	**3,507,446**	**4,536,171.04 /LS**	**4,536,171**
2121					**Funks/TRR Pipeline Open Cut**											
	32.0				Exterior Improvements											
		32.12			Paving											
			32.00.000		**TRR Access Roads**											
				32.40.04.00	Site Improvements, Access Roads, Gravel											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	80,912.90 SY	647	69,918	-	-	45,029	-	1.42 /SY	114,947	1.77 /SY	143,071
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	34,232.38 cy	685	78,945	-	-	129,061	-	6.08 /cy	208,007	7.56 /cy	258,899
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,18"deep	68,464.80 sy	1,153	126,255	1,369,296	-	89,394	-	23.15 /sy	1,584,945	30.26 /sy	2,072,004
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	80,912.90 sy	555	63,077	-	-	38,221	-	1.25 /sy	101,297	1.56 /sy	126,081
					32.40.04.00 Site Improvements, Access Roads, Gravel	80,912.90 SY	3,040	338,196	1,369,296		301,705		24.83 /SY	2,009,197	32.13 /SY	2,600,056
				32.40.04.90	Site Improvements, Access Roads, Asphalt											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	30,723.50 sy	246	26,549	-	-	17,098	-	1.42 /sy	43,647	1.77 /sy	54,326
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	12,998.38 cy	260	29,976	-	-	49,006	-	6.08 /cy	78,982	7.56 /cy	98,307
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,12"deep	18,906.70 sy	318	34,866	283,601	-	24,686	-	18.15 /sy	343,153	23.68 /sy	447,672
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,18"deep	11,816.70 sy	199	21,791	236,334	-	15,429	-	23.15 /sy	273,554	30.26 /sy	357,618
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	30,723.50 sy	211	23,951	-	-	14,513	-	1.25 /sy	38,464	1.56 /sy	47,875
					Plant-mix asphalt paving, for highways and large paved areas, binder course, 2" thick, no hauling included	18,906.70 SY	262	26,382	139,910	-	9,471	-	9.30 /SY	175,763	12.11 /SY	228,910
					Plant-mix asphalt paving, for highways and large paved areas, wearing course, 2" thick, no hauling included	18,906.70 sy	286	29,362	155,980	-	10,624	-	10.36 /sy	195,967	13.50 /sy	255,222
					32.40.04.90 Site Improvements, Access Roads, Asphalt	18,906.70 SY	1,782	192,877	815,824		140,827		60.80 /SY	1,149,529	78.80 /SY	1,489,929
					32.00.000 TRR Access Roads	***31,455.00*** **LF**	**4,822**	**531,073**	**2,185,120**		**442,532**		**100.42 /LF**	**3,158,726**	**130.03 /LF**	**4,089,985**
					32.12 Paving	99,819.60 SY	4,822	531,073	2,185,120		442,532		31.64 /SY	3,158,726	40.97 /SY	4,089,985
					32.0 Exterior Improvements	***1.00*** **LS**	4,822	531,073	2,185,120		442,532		3,158,725.62 /LS	3,158,726	4,089,985.06 /LS	4,089,985
	33.1				Pipelines											
		33.03			Buried Process Pipe, Carbon Steel											
			33.00.05.1a-Funks		**Funks Pipeline, Single Pipe Trench, (3123-110)**											
				31.00.01.01	Trenching, Backfill, and Compaction											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	3,122.30 cy		-	234,173	-	-	-	75.00 /cy	234,173	98.79 /cy	308,444
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	3,122.30 cy	833	79,722	-	-	14,940	-	30.32 /cy	94,662	37.74 /cy	117,822
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	5,791.83 cy	60	6,656	-	-	9,186	-	2.74 /cy	15,842	3.40 /cy	19,717
					Excavating, trench or continuous footing, dense hard clay, 3 C.Y. excavator, 14' to 20' deep, excludes sheeting or dewatering	15,474.94 CY	281	31,122	-	-	42,949	-	4.79 /CY	74,071	5.96 /CY	92,194
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	1,719.44 CY	165	17,011	7,755	-	12,282	-	21.55 /CY	37,048	27.15 /CY	46,675
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	11,402.54 ecy	912	103,706	-	-	12,214	-	10.17 /ecy	115,919	12.65 /ecy	144,281
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	114.38 lcy	18	1,864	2,070	-	216	-	36.28 /lcy	4,150	46.47 /lcy	5,315
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	5,791.83 lcy	1,188	117,838	-	-	119,875	-	41.04 /lcy	237,713	51.08 /lcy	295,874
					Dewatering Allowance	7.32 msf				21,960			3,000.00 /msf	21,960	3,734.00 /msf	27,333
					Erosion and Dust Controls Allowance	20.00 DY				100,000			5,000.00 /DY	100,000	6,223.34 /DY	124,467
					31.00.01.01 Trenching, Backfill, and Compaction	17,194.38 CY	3,458	357,918	243,997	121,960	211,661		54.41 /CY	935,537	68.75 /CY	1,182,122
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	604.35 cy		-	6,044		-	-	10.00 /cy	6,044	13.17 /cy	7,960
					Clearing & grubbing, brush, including stumps	1.50 AC	144	15,523	-	-	16,940	-	21,642.24 /AC	32,463	26,937.40 /AC	40,406
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	604.35 cy	62	6,148	-	-	5,648	-	19.52 /cy	11,796	24.29 /cy	14,682
					31.15.01.00 Site Preparation, Clearing and Grubbing	1.50 AC	206	21,671	6,044		22,588		33,534.97 /AC	50,302	42,031.99 /AC	63,048
				32.40.11.01	Surface Restorations											
					Final Grading	7,252.22 SY	116	12,534	-	-	8,072	-	2.84 /SY	20,605	3.54 /SY	25,647
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	7,252.22 sy	348	33,775	4,061	-	2,051	-	5.50 /sy	39,887	6.89 /sy	49,940
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	7,252.22 sy	144	15,114	16,100	-	6,634	-	5.22 /sy	37,848	6.66 /sy	48,276
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	7,252.22 sy	39	4,115	15,375	-	1,806	-	2.94 /sy	21,296	3.81 /sy	27,621
					32.40.11.01 Surface Restorations	7,252.22 SY	647	65,537	35,536		18,563		16.50 /SY	119,636	20.89 /SY	151,484
				33.00.05.144 f	Funks - Buried Pipe, WSP, 144"											
					144" CS butt weld, 1/2" wall	31.00 ea	1,558	199,022	15,555		28,656	-	7,846.22 /ea	243,233	9,802.32 /ea	303,872
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	610.00 LF	1,708	177,942	1,241,540	-	72,691	-	2,446.19 /LF	1,492,173	3,192.25 /LF	1,947,271
					33.00.05.144f Funks - Buried Pipe, WSP, 144"	610.00 LF	3,266	376,964	1,257,095		101,346		2,844.93 /LF	1,735,406	3,690.40 /LF	2,251,143
					33.00.05.1a-Funks Funks Pipeline, Single Pipe Trench, (3123-110)	**610.00 LF**	**7,577**	**822,091**	**1,542,672**	**121,960**	**354,158**		**4,657.18 /LF**	**2,840,882**	**5,980.00 /LF**	**3,647,797**
			33.00.05.1a-TRR		**TRR Pipeline, Single Pipe Trench, (3123-110)**											
				31.00.01.01	Trenching, Backfill, and Compaction											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	3,492.39 cy		-	261,929	-	-	-	75.00 /cy	261,929	98.79 /cy	345,005
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	3,492.39 cy	931	89,172	-	-	16,710	-	30.32 /cy	105,882	37.74 /cy	131,788
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	6,373.21 cy	66	7,324	-	-	10,108	-	2.74 /cy	17,432	3.40 /cy	21,697

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Excavating, trench or continuous footing, dense hard clay, 3 C.Y. excavator, 14' to 20' deep, excludes sheeting or dewatering	17,801.88 CY	324	35,801	-	-	49,408	-	4.79 /CY	85,209	5.96 /CY	106,057
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	1,977.99 CY	190	19,569	8,921	-	14,129	-	21.55 /CY	42,619	27.15 /CY	53,693
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	13,406.66 ecy	1,073	121,933	-	-	14,360	-	10.17 /ecy	136,294	12.65 /ecy	169,640
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	135.42 lcy	22	2,207	2,451	-	255	-	36.28 /lcy	4,913	46.47 /lcy	6,293
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	6,373.21 lcy	1,307	129,667	-	-	131,908	-	41.04 /lcy	261,575	51.08 /lcy	325,573
					Dewatering Allowance	8.58 msf				25,740			3,000.00 /msf	25,740	3,734.00 /msf	32,038
					Erosion and Dust Controls Allowance	23.00 DY				115,000			5,000.00 /DY	115,000	6,223.34 /DY	143,137
					31.00.01.01 Trenching, Backfill, and Compaction	**19,779.87 CY**	**3,913**	**405,672**	**273,301**	**140,740**	**236,878**		**53.42 /CY**	**1,056,592**	**67.49 /CY**	**1,334,920**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	751.11 cy		-	7,511		-	-	10.00 /cy	7,511	13.17 /cy	9,893
					Clearing & grubbing, brush, including stumps	1.86 AC	179	19,249	-	-	21,006	-	21,642.24 /AC	40,255	26,937.40 /AC	50,104
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	751.11 cy	77	7,641	-	-	7,020	-	19.52 /cy	14,660	24.29 /cy	18,247
					31.15.01.00 Site Preparation, Clearing and Grubbing	**1.86 AC**	**256**	**26,889**	**7,511**		**28,025**		**33,562.20 /AC**	**62,426**	**42,066.56 /AC**	**78,244**
				32.40.11.01	**Surface Restorations**											
					Final Grading	9,013.33 SY	144	15,577	-	-	10,032	-	2.84 /SY	25,609	3.54 /SY	31,875
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	9,013.33 sy	433	41,977	5,047	-	2,548	-	5.50 /sy	49,573	6.89 /sy	62,068
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	9,013.33 sy	179	18,784	20,010	-	8,245	-	5.22 /sy	47,039	6.66 /sy	59,999
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	9,013.33 sy	49	5,114	19,108	-	2,245	-	2.94 /sy	26,467	3.81 /sy	34,328
					32.40.11.01 Surface Restorations	**9,013.33 SY**	**804**	**81,452**	**44,165**		**23,071**		**16.50 /SY**	**148,688**	**20.89 /SY**	**188,270**
				33.00.05.132t	**TRR -Buried Pipe, WSP, 132"**											
					132" CS butt weld, 1/2" wall	39.00 ea	1,797	229,519	17,938		33,047	-	7,192.41 /ea	280,504	8,985.51 /ea	350,435
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 132" diameter	780.00 LF	2,184	227,533	1,506,590	-	92,949	-	2,342.40 /LF	1,827,072	3,055.54 /LF	2,383,325
					33.00.05.132t TRR -Buried Pipe, WSP, 132"	**780.00 LF**	**3,981**	**457,051**	**1,524,529**		**125,995**		**2,702.02 /LF**	**2,107,576**	**3,504.82 /LF**	**2,733,760**
					33.00.05.1a-TRR TRR Pipeline, Single Pipe Trench, (3123-110)	**780.00 LF**	**8,954**	**971,066**	**1,849,506**	**140,740**	**413,970**		**4,327.28 /LF**	**3,375,282**	**5,557.94 /LF**	**4,335,193**
			33.00.05.2c-Funks		**Funks Pipeline, Dual Pipe Trench, (3123-110C)**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	1,302.33 cy		-	97,675	-	-	-	75.00 /cy	97,675	98.79 /cy	128,654
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	1,302.33 cy	347	33,253	-	-	6,231	-	30.32 /cy	39,484	37.74 /cy	49,144
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	2,798.53 cy	29	3,216	-	-	4,438	-	2.74 /cy	7,654	3.40 /cy	9,527
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	707.98 CY	68	7,004	3,193	-	5,057	-	21.55 /CY	15,255	27.15 /CY	19,218
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	6,371.81 CY	266	30,615	-	-	51,421	-	12.87 /CY	82,036	16.02 /CY	102,108
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	4,281.26 ecy	343	38,938	-	-	4,586	-	10.17 /ecy	43,524	12.65 /ecy	54,173
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	72.01 lcy	12	1,173	1,303	-	136	-	36.28 /lcy	2,612	46.47 /lcy	3,346
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	2,798.53 lcy	574	56,938	-	-	57,922	-	41.04 /lcy	114,860	51.08 /lcy	142,962
					Dewatering Allowance	4.93 msf				14,790			3,000.00 /msf	14,790	3,734.00 /msf	18,409
					Erosion and Dust Controls Allowance	7.00 DY				35,000			5,000.00 /DY	35,000	6,223.34 /DY	43,563
					31.00.01.01 Trenching, Backfill, and Compaction	**7,079.79 CY**	**1,638**	**171,137**	**102,171**	**49,790**	**129,791**		**63.97 /CY**	**452,889**	**80.67 /CY**	**571,104**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	195.19 cy		-	1,952		-	-	10.00 /cy	1,952	13.17 /cy	2,571
					Clearing & grubbing, brush, including stumps	0.48 AC	46	4,967	-	-	5,421	-	21,642.25 /AC	10,388	26,937.40 /AC	12,930
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	195.19 cy	20	1,986	-	-	1,824	-	19.52 /cy	3,810	24.29 /cy	4,742
					31.15.01.00 Site Preparation, Clearing and Grubbing	**0.48 AC**	**66**	**6,953**	**1,952**		**7,245**		**33,645.54 /AC**	**16,150**	**42,172.33 /AC**	**20,243**
				32.40.11.01	**Surface Restorations**											
					Final Grading	2,342.22 SY	37	4,048	-	-	2,607	-	2.84 /SY	6,655	3.54 /SY	8,283
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	2,342.22 sy	112	10,908	1,312	-	662	-	5.50 /sy	12,882	6.89 /sy	16,129
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	2,342.22 sy	46	4,881	5,200	-	2,143	-	5.22 /sy	12,224	6.66 /sy	15,591
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	2,342.22 sy	13	1,329	4,966	-	583	-	2.94 /sy	6,878	3.81 /sy	8,921
					32.40.11.01 Surface Restorations	**2,342.22 SY**	**209**	**21,166**	**11,477**		**5,995**		**16.50 /SY**	**38,638**	**20.89 /SY**	**48,924**
				33.00.05.144f	**Funks - Buried Pipe, WSP, 144"**											
					144" CS butt weld, 1/2" wall	17.00 ea	855	109,141	8,530		15,715	-	7,846.22 /ea	133,386	9,802.32 /ea	166,639
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	340.00 LF	952	99,181	691,900	-	40,516	-	2,445.87 /LF	831,597	3,191.84 /LF	1,085,225
					33.00.05.144f Funks - Buried Pipe, WSP, 144"	**340.00 LF**	**1,807**	**208,322**	**700,430**		**56,231**		**2,838.18 /LF**	**964,983**	**3,681.95 /LF**	**1,251,864**
					33.00.05.2c-Funks Funks Pipeline, Dual Pipe Trench, (3123-110C)	***170.00* LF**	**3,720**	**407,578**	**816,030**	**49,790**	**199,262**		**8,662.71 /LF**	**1,472,661**	**11,130.21 /LF**	**1,892,135**
			33.00.05.2c-TRR		**TRR Pipeline, Dual Pipe Trench, (3123-110C)**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	41,115.48 cy		-	3,083,661	-	-	-	75.00 /cy	3,083,661	98.79 /cy	4,061,699
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	41,115.48 cy	10,964	1,049,806	-	-	196,729	-	30.32 /cy	1,246,535	37.74 /cy	1,551,522
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	86,099.21 cy	895	98,946	-	-	136,549	-	2.74 /cy	235,495	3.40 /cy	293,113
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	22,646.89 CY	2,174	224,052	102,137	-	161,773	-	21.55 /CY	487,963	27.15 /CY	614,757
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	203,821.98 CY	8,493	979,314	-	-	1,644,862	-	12.87 /CY	2,624,176	16.02 /CY	3,266,227
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	140,369.66 ecy	11,230	1,276,656	-	-	150,356	-	10.17 /ecy	1,427,013	12.65 /ecy	1,776,157

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	2,394.79 lcy	383	39,022	43,346	-	4,514	-	36.28 /lcy	86,882	46.47 /lcy	111,282
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	86,099.21 lcy	17,662	1,751,741	-	-	1,782,013	-	41.04 /lcy	3,533,754	51.08 /lcy	4,398,350
					Dewatering Allowance	163.35 msf				490,050			3,000.00 /msf	490,050	3,734.00 /msf	609,949
					Erosion and Dust Controls Allowance	228.00 DY				1,140,000			5,000.00 /DY	1,140,000	6,223.34 /DY	1,418,921
					31.00.01.01 Trenching, Backfill, and Compaction	**226,468.87 CY**	**51,800**	**5,419,537**	**3,229,144**	**1,630,050**	**4,076,798**		**63.39 /CY**	**14,355,529**	**79.93 /CY**	**18,101,977**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	6,722.22 cy		-	67,222		-	-	10.00 /cy	67,222	13.17 /cy	88,543
					Clearing & grubbing, brush, including stumps	16.67 AC	1,600	172,515	-	-	188,261	-	21,642.24 /AC	360,776	26,937.40 /AC	449,046
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	6,722.22 cy	689	68,381	-	-	62,823	-	19.52 /cy	131,203	24.29 /cy	163,304
					31.15.01.00 Site Preparation, Clearing and Grubbing	**16.67 AC**	**2,290**	**240,896**	**67,222**		**251,084**		**33,545.38 /AC**	**559,201**	**42,045.21 /AC**	**700,894**
				32.40.11.01	**Surface Restorations**											
					Final Grading	80,666.67 SY	1,291	139,411	-	-	89,784	-	2.84 /SY	229,195	3.54 /SY	285,272
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	80,666.67 sy	3,872	375,681	45,173	-	22,808	-	5.50 /sy	443,662	6.89 /sy	555,487
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	80,666.67 sy	1,600	168,114	179,080	-	73,794	-	5.22 /sy	420,988	6.66 /sy	536,974
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	80,666.67 sy	436	45,769	171,013	-	20,090	-	2.94 /sy	236,873	3.81 /sy	307,226
					32.40.11.01 Surface Restorations	**80,666.67 SY**	**7,198**	**728,975**	**395,267**		**206,476**		**16.50 /SY**	**1,330,718**	**20.89 /SY**	**1,684,959**
				33.00.05.132t	**TRR -Buried Pipe, WSP, 132"**											
					132" CS butt weld, 1/2" wall	605.00 ea	27,877	3,560,481	278,276		512,650	-	7,192.41 /ea	4,351,407	8,985.51 /ea	5,436,231
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 132" diameter	12,100.00 LF	33,880	3,529,676	23,371,465	-	1,441,894	-	2,342.40 /LF	28,343,035	3,055.54 /LF	36,972,092
					33.00.05.132t TRR -Buried Pipe, WSP, 132"	**12,100.00 LF**	**61,757**	**7,090,158**	**23,649,740**		**1,954,544**		**2,702.02 /LF**	**32,694,442**	**3,504.82 /LF**	**42,408,324**
					33.00.05.2c-TRR TRR Pipeline, Dual Pipe Trench, (3123-110C)	***6,050.00* LF**	**123,045**	**13,479,566**	**27,341,373**	**1,630,050**	**6,488,902**		**8,089.24 /LF**	**48,939,891**	**10,396.06 /LF**	**62,896,153**
			33.00.05.4a		**Funks/TRR Pipeline, Quad Pipe Trench, (3123-110A)**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	31,213.70 cy		-	2,341,028	-	-	-	75.00 /cy	2,341,028	98.79 /cy	3,083,526
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	31,213.70 cy	8,324	796,983	-	-	149,351	-	30.32 /cy	946,334	37.74 /cy	1,177,871
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	69,953.71 cy	727	80,391	-	-	110,943	-	2.74 /cy	191,334	3.40 /cy	238,148
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	15,015.49 CY	1,441	148,552	67,720	-	107,260	-	21.55 /CY	323,532	27.15 /CY	407,600
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	135,139.38 CY	5,631	649,311	-	-	1,090,587	-	12.87 /CY	1,739,898	16.02 /CY	2,165,595
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	80,182.55 ecy	6,415	729,257	-	-	85,887	-	10.17 /ecy	815,144	12.65 /ecy	1,014,584
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	2,065.97 lcy	331	33,664	37,394	-	3,894	-	36.28 /lcy	74,952	46.47 /lcy	96,002
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	69,953.71 lcy	14,350	1,423,251	-	-	1,447,846	-	41.04 /lcy	2,871,098	51.08 /lcy	3,573,563
					Dewatering Allowance	145.18 msf				435,540			3,000.00 /msf	435,540	3,734.00 /msf	542,103
					Erosion and Dust Controls Allowance	115.00 DY				575,000			5,000.00 /DY	575,000	6,223.34 /DY	715,684
					31.00.01.01 Trenching, Backfill, and Compaction	**150,154.87 CY**	**37,218**	**3,861,410**	**2,446,141**	**1,010,540**	**2,995,770**		**68.69 /CY**	**10,313,861**	**86.68 /CY**	**13,014,675**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	3,592.04 cy		-	35,920		-	-	10.00 /cy	35,920	13.17 /cy	47,313
					Clearing & grubbing, brush, including stumps	8.91 AC	855	92,208	-	-	100,624	-	21,642.24 /AC	192,832	26,937.40 /AC	240,012
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	3,592.04 cy	368	36,539	-	-	33,569	-	19.52 /cy	70,109	24.29 /cy	87,262
					31.15.01.00 Site Preparation, Clearing and Grubbing	**8.91 AC**	**1,224**	**128,747**	**35,920**		**134,194**		**33,542.26 /AC**	**298,862**	**42,041.26 /AC**	**374,588**
				32.40.11.01	**Surface Restorations**											
					Final Grading	43,104.44 SY	690	74,495	-	-	47,976	-	2.84 /SY	122,471	3.54 /SY	152,436
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	43,104.44 sy	2,069	200,746	24,138	-	12,188	-	5.50 /sy	237,072	6.89 /sy	296,826
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	43,104.44 sy	855	89,832	95,692	-	39,432	-	5.22 /sy	224,956	6.66 /sy	286,933
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	43,104.44 sy	233	24,457	91,381	-	10,735	-	2.94 /sy	126,573	3.81 /sy	164,167
					32.40.11.01 Surface Restorations	**43,104.44 SY**	**3,846**	**389,530**	**211,212**		**110,331**		**16.50 /SY**	**711,073**	**20.89 /SY**	**900,362**
				33.00.05.132t	**TRR -Buried Pipe, WSP, 132"**											
					132" CS butt weld, 1/2" wall	238.00 ea	10,966	1,400,643	109,470		201,669	-	7,192.36 /ea	1,711,782	8,985.45 /ea	2,138,537
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 132" diameter	4,760.00 LF	13,328	1,388,534	9,194,064	-	567,224	-	2,342.40 /LF	11,149,822	3,055.54 /LF	14,544,393
					33.00.05.132t TRR -Buried Pipe, WSP, 132"	**4,760.00 LF**	**24,294**	**2,789,177**	**9,303,534**		**768,894**		**2,702.02 /LF**	**12,861,605**	**3,504.82 /LF**	**16,682,930**
				33.00.05.144f	**Funks - Buried Pipe, WSP, 144"**											
					144" CS butt weld, 1/2" wall	238.00 ea	11,963	1,527,974	119,424		220,003	-	7,846.22 /ea	1,867,400	9,802.32 /ea	2,332,951
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	4,760.00 LF	13,328	1,388,534	9,686,600	-	567,224	-	2,445.87 /LF	11,642,358	3,191.84 /LF	15,193,146
					33.00.05.144f Funks - Buried Pipe, WSP, 144"	**4,760.00 LF**	**25,291**	**2,916,508**	**9,806,024**		**787,227**		**2,838.18 /LF**	**13,509,759**	**3,681.95 /LF**	**17,526,097**
					33.00.05.4a Funks/TRR Pipeline, Quad Pipe Trench, (3123-110A)	***2,380.00* LF**	**91,873**	**10,085,371**	**21,802,831**	**1,010,540**	**4,796,416**		**15,838.30 /LF**	**37,695,158**	**20,377.59 /LF**	**48,498,652**
			33.00.05.4b		**Funks/TRR Pipeline, Quad Pipe Trench, (3123-110B)**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	36,796.68 cy		-	2,759,751	-	-	-	75.00 /cy	2,759,751	98.79 /cy	3,635,055
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	36,796.68 cy	9,812	939,533	-	-	176,065	-	30.32 /cy	1,115,598	37.74 /cy	1,388,549
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	70,538.01 cy	733	81,063	-	-	111,870	-	2.74 /cy	192,932	3.40 /cy	240,137
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	14,342.09 CY	1,377	141,890	64,683	-	102,450	-	21.55 /CY	309,023	27.15 /CY	389,320
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	129,078.93 CY	5,379	620,192	-	-	1,041,679	-	12.87 /CY	1,661,871	16.02 /CY	2,068,477
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	72,869.94 ecy	5,830	662,749	-	-	78,054	-	10.17 /ecy	740,804	12.65 /ecy	922,054

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	8,161.67 lcy	1,306	132,991	147,726	-	15,384	-	36.28 /lcy	296,101	46.47 /lcy	379,258
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	70,538.01 lcy	14,469	1,435,139	-	-	1,459,940	-	41.04 /lcy	2,895,079	51.08 /lcy	3,603,411
					Dewatering Allowance	144.42 msf				433,260			3,000.00 /msf	433,260	3,734.00 /msf	539,265
					Erosion and Dust Controls Allowance	103.00 DY				515,000			5,000.00 /DY	515,000	6,223.34 /DY	641,004
					31.00.01.01 Trenching, Backfill, and Compaction	**143,421.02 CY**	**38,906**	**4,013,558**	**2,972,160**	**948,260**	**2,985,442**		**76.14 /CY**	**10,919,419**	**96.27 /CY**	**13,806,531**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	2,766.67 cy		-	27,667		-	-	10.00 /cy	27,667	13.17 /cy	36,442
					Clearing & grubbing, brush, including stumps	6.86 AC	659	70,993	-	-	77,473	-	21,642.24 /AC	148,466	26,937.40 /AC	184,791
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	2,766.67 cy	284	28,143	-	-	25,856	-	19.52 /cy	53,999	24.29 /cy	67,211
					31.15.01.00 Site Preparation, Clearing and Grubbing	**6.86 AC**	**942**	**99,136**	**27,667**		**103,329**		**33,546.92 /AC**	**230,132**	**42,047.16 /AC**	**288,444**
				32.40.11.01	**Surface Restorations**											
					Final Grading	33,200.00 SY	531	57,378	-	-	36,952	-	2.84 /SY	94,330	3.54 /SY	117,409
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	33,200.00 sy	1,594	154,619	18,592	-	9,387	-	5.50 /sy	182,598	6.89 /sy	228,622
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	33,200.00 sy	659	69,191	73,704	-	30,371	-	5.22 /sy	173,266	6.66 /sy	221,002
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	33,200.00 sy	179	18,837	70,384	-	8,269	-	2.94 /sy	97,490	3.81 /sy	126,445
					32.40.11.01 Surface Restorations	**33,200.00 SY**	**2,963**	**300,025**	**162,680**		**84,979**		**16.50 /SY**	**547,684**	**20.89 /SY**	**693,479**
				33.00.05.132t	**TRR -Buried Pipe, WSP, 132"**											
					132" CS butt weld, 1/2" wall	166.00 ea	7,649	976,925	76,353		140,661	-	7,192.41 /ea	1,193,940	8,985.51 /ea	1,491,594
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 132" diameter	3,320.00 LF	9,296	968,473	6,412,666	-	395,627	-	2,342.40 /LF	7,776,767	3,055.54 /LF	10,144,409
					33.00.05.132t TRR -Buried Pipe, WSP, 132"	**3,320.00 LF**	**16,945**	**1,945,399**	**6,489,020**		**536,288**		**2,702.02 /LF**	**8,970,707**	**3,504.82 /LF**	**11,636,003**
				33.00.05.144f	**Funks - Buried Pipe, WSP, 144"**											
					144" CS butt weld, 1/2" wall	166.00 ea	8,344	1,065,730	83,295		153,447	-	7,846.22 /ea	1,302,473	9,802.32 /ea	1,627,184
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	3,320.00 LF	9,296	968,473	6,756,200	-	395,627	-	2,445.87 /LF	8,120,300	3,191.84 /LF	10,596,900
					33.00.05.144f Funks - Buried Pipe, WSP, 144"	**3,320.00 LF**	**17,640**	**2,034,203**	**6,839,495**		**549,075**		**2,838.18 /LF**	**9,422,773**	**3,681.95 /LF**	**12,224,085**
					33.00.05.4b Funks/TRR Pipeline, Quad Pipe Trench, (3123-110B)	***1,660.00*** **LF**	**77,395**	**8,392,320**	**16,491,022**	**948,260**	**4,259,113**		**18,126.94 /LF**	**30,090,715**	**23,282.25 /LF**	**38,648,541**
			33.10.008		**Funks Pipeline, Seismic Couplings**											
				33.60.99.00	**Pipeline Specials, Other**											
					150" Dynamic Movement Joint, 70.5' Oval, 20 Pair, Victaulic Quote	2.00 EA	560	58,342	16,824,480	-	23,833	-	8,453,327.36 /EA	16,906,655	11,131,471.16 /EA	22,262,942
					150" Dynamic Movement Joint, 35' Oval, 10 Pair, Victaulic Quote	2.00 EA	560	58,342	9,147,700	-	23,833	-	4,614,937.36 /EA	9,229,875	6,075,667.72 /EA	12,151,335
					150" Dynamic Movement Joint, 35' Oval, 7 Pair, Victaulic Quote	2.00 EA	560	58,342	6,964,666	-	23,833	-	3,523,420.36 /EA	7,046,841	4,637,956.75 /EA	9,275,914
					33.60.99.00 Pipeline Specials, Other	**6.00 EA**	**1,680**	**175,025**	**32,936,846**		**71,499**		**5,530,561.69 /EA**	**33,183,370**	**7,281,698.54 /EA**	**43,690,191**
					33.10.008 Funks Pipeline, Seismic Couplings	**6.00 EA**	**1,680**	**175,025**	**32,936,846**		**71,499**		**5,530,561.69 /EA**	**33,183,370**	**7,281,698.54 /EA**	**43,690,191**
			33.10.009		**TRR Pipeline, Infrasheild Pipe (Adder to Pipeline - 250' per Fault)**											
				33.00.05.144t	**TRR - Buried Pipe, WSP, 144"**											
					NW Pipe Infrasheild Pipe (Adder)	1,500.00 LF		-	2,850,000	-	-	-	1,900.00 /LF	2,850,000	2,502.62 /LF	3,753,928
					144" CS butt weld, 1/2" wall	75.00 ea	3,770	481,500	37,634		69,328	-	7,846.15 /ea	588,461	9,802.23 /ea	735,167
					33.00.05.144t TRR - Buried Pipe, WSP, 144"	**1,500.00 LF**	**3,770**	**481,500**	**2,887,634**		**69,328**		**2,292.31 /LF**	**3,438,461**	**2,992.73 /LF**	**4,489,095**
					33.10.009 TRR Pipeline, Infrasheild Pipe (Adder to Pipeline - 250' per Fault)	**1,500.00 LF**	**3,770**	**481,500**	**2,887,634**		**69,328**		**2,292.31 /LF**	**3,438,461**	**2,992.73 /LF**	**4,489,095**
					33.03 Buried Process Pipe, Carbon Steel	**31,490.00 LF**	**318,014**	**34,814,517**	**105,667,915**	**3,901,340**	**16,652,648**		**5,113.89 /LF**	**161,036,420**	**6,608.38 /LF**	**208,097,758**
					33.1 Pipelines	**31,490.00 LF**	**318,014**	**34,814,517**	**105,667,915**	**3,901,340**	**16,652,648**		**5,113.89 /LF**	**161,036,420**	**6,608.38 /LF**	**208,097,758**
					2121 Funks/TRR Pipeline Open Cut	**31,490.00 LF**	**322,836**	**35,345,590**	**107,853,035**	**3,901,340**	**17,095,180**		**5,214.20 /LF**	**164,195,145**	**6,738.26 /LF**	**212,187,743**
2122					**TRR Pipeline Tunnels**											
	33.1				**Pipelines**											
		33.60			**Trenchless Technology, Tunneling**											
			33.10.010		**17' Dia. Tunnels (TRR), STA 446+94 to 494+27**											
				33.60.01.99	**Pipeline Specials, Tunneling, 204" Dia.**											
					Mobilization	1.00 ls	12,980	992,710	500,000	0	346,774		1,839,484.40 /ls	1,839,484	2,509,745.32 /ls	2,509,745
					Launch Shaft	97.00 vlf	9,347	769,990	3,039,260	11,451	287,362		42,351.16 /vlf	4,108,062	59,219.85 /vlf	5,744,325
					Reception Shaft	55.00 vlf	4,870	401,367	1,489,046	5,307	152,068		37,232.53 /vlf	2,047,789	52,028.22 /vlf	2,861,552
					Turn Under at Launch Shaft	1.00 ls	816	67,589	23,145	0	31,970		122,703.74 /ls	122,704	166,673.76 /ls	166,674
					Assemble 17 Foot TBM	1.00 ls	5,359	450,429	280,320	0	361,874		1,092,622.72 /ls	1,092,623	1,489,537.71 /ls	1,489,538
					Excavate & Support Long Tunnel 17' Dia. - Tunnel A	4,733.00 LF	109,680	9,045,308	3,780,815	23,996	4,331,074		3,630.09 /LF	17,181,193	4,939.17 /LF	23,377,105
					Excavate & Support Long Tunnel 17' Dia. - Tunnel B	4,733.00 LF	109,680	9,045,308	3,780,815		4,331,074		3,625.02 /LF	17,157,197	4,932.36 /LF	23,344,838
					Muck Haul & Dump	115,990.00 cy	2,319	186,836	952,278	1,449,875	125,269		23.40 /cy	2,714,258	32.06 /cy	3,718,815
					Furnish & Install Carrier Pipe Tunnel 17' Dia. - 11' Dia. Carrier - Tunnel A	4,733.00 lf	50,264	4,079,429	12,031,996		1,702,081		3,763.68 /lf	17,813,506	5,245.21 /lf	24,825,567
					Furnish & Install Carrier Pipe Tunnel 17' Dia. - 11' Dia. Carrier - Tunnel B	4,733.00 lf	50,264	4,079,429	12,031,996		1,702,081		3,763.68 /lf	17,813,506	5,245.21 /lf	24,825,567
					Indirects	38.00 MO	82,175	9,931,671	3,623,495				356,714.88 /MO	13,555,165	486,576.23 /MO	18,489,897
					Plant & Equipment	9,466.00 lf					13,369,589		1,412.38 /lf	13,369,589	1,899.18 /lf	17,977,655
					Demobilization	1.00 ls	480	40,085			4,682		44,766.80 /ls	44,767	60,196.48 /ls	60,196
					33.60.01.99 Pipeline Specials, Tunneling, 204" Dia.	**9,466.00 LF**	**438,234**	**39,090,151**	**41,533,166**	**1,490,629**	**26,745,898**		**11,500.09 /LF**	**108,859,845**	**15,781.90 /LF**	**149,391,475**
					33.10.010 17' Dia. Tunnels (TRR), STA 446+94 to 494+27	**9,466.00 LF**	**438,234**	**39,090,151**	**41,533,166**	**1,490,629**	**26,745,898**		**11,500.09 /LF**	**108,859,845**	**15,781.90 /LF**	**149,391,475**
			33.10.012		**17' Dia. Tunnels (TRR), STA 555+90 to 560+50**											
				33.60.01.99	**Pipeline Specials, Tunneling, 204" Dia.**											
					Mobilization	1.00 ls	4,540	347,628	500,000		118,256		965,883.80 /ls	965,884	1,335,042.76 /ls	1,335,043
					Launch Shaft	54.00 vlf	5,113	421,116	1,717,508	6,093	155,071		42,588.69 /vlf	2,299,789	59,573.55 /vlf	3,216,972
					Reception Shaft	58.00 vlf	4,945	407,057	1,698,759	5,466	145,239		38,905.52 /vlf	2,256,520	54,438.44 /vlf	3,157,430
					Turn Under at Launch Shaft	1.00 ls	816	67,589	23,145		31,970		122,704.28 /ls	122,704	166,674.50 /ls	166,675
					Assemble 17 Foot TBM	1.00 ls	5,360	450,508	280,320		361,874		1,092,702.00 /ls	1,092,702	1,489,644.31 /ls	1,489,644
					Excavate & Support Long Tunnel 17' Dia. - Tunnel A	460.00 LF	11,168	934,882	367,278	23,998	468,174		3,900.72 /LF	1,794,333	5,303.06 /LF	2,439,409
					Excavate & Support Long Tunnel 17' Dia. - Tunnel B	460.00 LF	11,168	934,882	367,278		468,174		3,848.55 /LF	1,770,334	5,232.91 /LF	2,407,139
					Muck Haul & Dump	11,272.00 cy	225	18,154	92,543	140,900	12,174		23.40 /cy	263,771	32.06 /cy	361,394
					Furnish & Install Carrier Pipe Tunnel 17' Dia. - 11' Dia. Carrier - Tunnel A	460.00 lf	4,693	381,915	1,186,763		156,000		3,749.30 /lf	1,724,678	5,228.61 /lf	2,405,159
					Furnish & Install Carrier Pipe Tunnel 17' Dia. - 11' Dia. Carrier - Tunnel B	460.00 lf	4,693	381,915	1,186,763		156,000		3,749.30 /lf	1,724,678	5,228.61 /lf	2,405,159
					Indirects	8.00 MO	17,300	2,090,878	762,841	0	0	0	356,714.88 /MO	2,853,719	486,576.23 /MO	3,892,610
					Plant & Equipment	920.00 lf					1,299,390		1,412.38 /lf	1,299,390	1,899.18 /lf	1,747,247

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				33.60.01.99	Pipeline Specials, Tunneling, 204" Dia.											
					Demobilization	1.00 ls	480	40,085			4,682		44,766.80 /ls	44,767	60,196.47 /ls	60,196
					33.60.01.99 Pipeline Specials, Tunneling, 204" Dia.	920.00 LF	70,502	6,476,609	8,183,198	176,457	3,377,004		19,797.03 /LF	18,213,269	27,265.30 /LF	25,084,076
					33.10.012 17' Dia. Tunnels (TRR), STA 555+90 to 560+50	**920.00 LF**	**70,502**	**6,476,609**	**8,183,198**	**176,457**	**3,377,004**		**19,797.03 /LF**	**18,213,269**	**27,265.30 /LF**	**25,084,076**
					33.60 Trenchless Technology, Tunneling	10,386.00 LF	508,736	45,566,761	49,716,364	1,667,087	30,122,902		12,235.04 /LF	127,073,114	16,799.11 /LF	174,475,552
					33.1 Pipelines	10,386.00 LF	508,736	45,566,761	49,716,364	1,667,087	30,122,902		12,235.04 /LF	127,073,114	16,799.11 /LF	174,475,552
					2122 TRR Pipeline Tunnels	**10,386.00 LF**	**508,736**	**45,566,761**	**49,716,364**	**1,667,087**	**30,122,902**		**12,235.04 /LF**	**127,073,114**	**16,799.11 /LF**	**174,475,552**
2190					**Funks Reservoir Flow Meter Vault**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.00.100		**Vault Foundation Slab**											
				03.10.05.42	Cast-In-Place Concrete, Slabs on Grade, 42" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	875.00 sfca	80	8,357	2,074	-	-	-	11.92 /sfca	10,431	17.39 /sfca	15,219
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	37.00 ton	592	69,265	55,500	-	-	-	3,372.03 /ton	124,765	4,980.22 /ton	184,268
					Reinforcing in place, unloading & sorting, add to above - slabs	37.00 ton	21	2,470	-	-	858	-	89.94 /ton	3,328	129.94 /ton	4,808
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	430.00 cy		-	96,750	-	-	-	225.00 /cy	96,750	341.36 /cy	146,786
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	422.00 CY	278	26,584	-	-	2,619	-	69.20 /CY	29,204	99.98 /CY	42,190
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&Mn val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	3,256.00 sf	46	4,157	-	-	166	-	1.33 /sf	4,323	1.92 /sf	6,245
					Curing, sprayed membrane curing compound	32.56 csf	5	499	521	-	-	-	31.33 /csf	1,020	46.42 /csf	1,511
					Fine grading, fine grade for slab on grade, machine	361.78 sy	6	601	-	-	387	-	2.73 /sy	988	3.95 /sy	1,428
					03.10.05.42 Cast-In-Place Concrete, Slabs on Grade, 42" thick	422.00 CY	1,027	111,933	154,845		4,030		641.73 /CY	270,808	953.68 /CY	402,454
					03.00.100 Vault Foundation Slab	**422.00 CY**	**1,027**	**111,933**	**154,845**		**4,030**		**641.73 /CY**	**270,808**	**953.68 /CY**	**402,454**
					03.18 Cast-In-Place Concrete, Slabs on Grade	422.00 CY	1,027	111,933	154,845		4,030		641.73 /CY	270,808	953.68 /CY	402,454
		03.20			Cast-In-Place Concrete, Straight Walls											
			03.00.102		**Vault Concrete Walls**											
				03.10.06.42	Cast-In-Place Concrete, Straight Walls, 42" thick											
					12' Dia Wall Pipes	8.00 ea	224	23,337	166,400	-	9,533	-	24,908.74 /ea	199,270	37,492.85 /ea	299,943
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	9,248.00 sfca	976	103,960	50,402	-	-	-	16.69 /sfca	154,361	24.51 /sfca	226,655
					Form oil, coverage varies greatly, maximum, includes material only	22.25 gal		-	612	-	-	-	27.50 /gal	612	41.72 /gal	928
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	47.50 ton	760	88,922	71,250	-	-	-	3,372.03 /ton	160,172	4,980.22 /ton	236,560
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	47.50 ton	27	3,171	-	-	1,101	-	89.94 /ton	4,272	129.94 /ton	6,172
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	47.50 ton	29	3,447	-	-	1,197	-	97.76 /ton	4,644	141.24 /ton	6,709
					Concrete, ready mix, regular weight, walls/cols/beams, 5000 psi	552.00 cy		-	138,000	-	-	-	250.00 /cy	138,000	379.29 /cy	209,369
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	541.00 CY	457	43,787	-	-	5,177	-	90.51 /CY	48,964	130.75 /CY	70,737
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	8,343.00 sf	148	13,548	250	-	-	-	1.65 /sf	13,798	2.39 /sf	19,952
					03.10.06.42 Cast-In-Place Concrete, Straight Walls, 42" thick	541.00 CY	2,621	280,171	426,914		17,009		1,338.43 /CY	724,093	1,990.80 /CY	1,077,026
					03.00.102 Vault Concrete Walls	**541.00 CY**	**2,621**	**280,171**	**426,914**		**17,009**		**1,338.43 /CY**	**724,093**	**1,990.80 /CY**	**1,077,026**
					03.20 Cast-In-Place Concrete, Straight Walls	541.00 CY	2,621	280,171	426,914		17,009		1,338.43 /CY	724,093	1,990.80 /CY	1,077,026
		03.24			Cast-In-Place Concrete, Elevated Slabs											
			03.00.106		**Vault Elevated Slab**											
				03.10.10.14	Cast-In-Place Concrete, Elevated Decks, 14" thick											
					Slab shoring	59,830.00 cf	419	45,374	2,992	-	-	-	0.81 /cf	48,366	1.17 /cf	70,089
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	2,542.00 sf	218	23,219	6,609	-	-	-	11.73 /sf	29,828	17.14 /sf	43,570
					Cip concrete forms,elevated slab,box-out for shallow slab openings,over 10 sf (use perimeter),includes shoring,erecting,bracing,stripping and cleaning	99.00 lf	8	844	438	-	-	-	12.95 /lf	1,282	19.02 /lf	1,883
					C.I.P. concrete forms, elevated slab, edge forms, 7" to 12" high, 3 use, includes shoring, erecting, bracing, stripping and cleaning	265.00 sfca	38	3,990	345	-	-	-	16.36 /sfca	4,335	23.73 /sfca	6,287
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	9.50 ton	152	17,784	14,250	-	-	-	3,372.03 /ton	32,034	4,980.22 /ton	47,312
					Reinforcing in place, unloading & sorting, add to above - decks	9.50 ton	5	634	-	-	220	-	89.94 /ton	854	129.94 /ton	1,234
					Reinforcing steel, crane cost for handling, maximum, add	9.50 ton	15	1,812	-	-	629	-	256.98 /ton	2,441	371.25 /ton	3,527
					Concrete, ready mix, regular weight, elevated decks, 4000 psi	108.00 cy		-	21,600	-	-	-	200.00 /cy	21,600	303.43 /cy	32,771
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	106.00 CY	71	6,776	-	-	676	-	70.30 /CY	7,452	101.56 /CY	10,766
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	2,438.00 sf	34	3,112	-	-	124	-	1.33 /sf	3,237	1.92 /sf	4,676
					Curing, sprayed membrane curing compound, elevated decks	24.38 csf	4	374	390	-	-	-	31.33 /csf	764	46.41 /csf	1,132
					03.10.10.14 Cast-In-Place Concrete, Elevated Decks, 14" thick	106.00 CY	964	103,919	46,623		1,650		1,435.78 /CY	152,192	2,106.11 /CY	223,247
					03.00.106 Vault Elevated Slab	**106.00 CY**	**964**	**103,919**	**46,623**		**1,650**		**1,435.78 /CY**	**152,192**	**2,106.11 /CY**	**223,247**
					03.24 Cast-In-Place Concrete, Elevated Slabs	106.00 CY	964	103,919	46,623		1,650		1,435.78 /CY	152,192	2,106.11 /CY	223,247
					03.0 Concrete Work	1,069.00 CY	4,612	496,023	628,381		22,689		1,073.05 /CY	1,147,094	1,592.82 /CY	1,702,727
	05.0				Metals											
		05.00			Metals											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	254.00 LF	51	6,347	15,875	-	238	-	88.43 /LF	22,460	132.28 /LF	33,599
					24" Self Closing Gate	10.00 ea	80	9,996	7,500	-	375	-	1,787.07 /ea	17,871	2,636.10 /ea	26,361
					05.50.04.10 Metals, Pipe and Tube Railings	254.00 LF	131	16,343	23,375		613		158.78 /LF	40,331	236.06 /LF	59,960
					05.00.000 Hand Railing	**254.00 LF**	**131**	**16,343**	**23,375**		**613**		**158.78 /LF**	**40,331**	**236.06 /LF**	**59,960**
			05.00.002		**Ladders**											
				05.50.03.20	Metal Ladders, Steel w/o Cage											
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage includes walkthrough	11.00 EA	176	21,990	16,500	-	825	-	3,574.14 /EA	39,316	5,272.19 /EA	57,994
					05.50.03.20 Metal Ladders, Steel w/o Cage	11.00 EA	176	21,990	16,500		825		3,574.14 /EA	39,316	5,272.19 /EA	57,994
					05.00.002 Ladders	**11.00 EA**	**176**	**21,990**	**16,500**		**825**		**3,574.14 /EA**	**39,316**	**5,272.19 /EA**	**57,994**
			05.00.004		**Metal Grating**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				05.50.05.00	Metals, Gratings											
					Column, structural tubing, 4" x 4" x 1/4", incl shop primer, cap & base plate, bolts	16.00 ea	15	1,919	4,352	-	757	-	439.25 /ea	7,028	654.30 /ea	10,469
					Structural steel member, W6x12, A992 steel, shop fabricated, incl shop primer, bolted connections	128.00 lf	143	17,811	3,456	-	7,023	-	221.01 /lf	28,290	321.25 /lf	41,120
					Structural steel member, W8x24, A992 steel, shop fabricated, incl shop primer, bolted connections	111.00 lf	124	15,445	4,829	-	6,090	-	237.51 /lf	26,364	346.28 /lf	38,437
					Structural steel member, W12x22, A992 steel, shop fabricated, incl shop primer, bolted connections	156.00 lf	175	21,707	6,240	-	8,559	-	234.01 /lf	36,506	340.97 /lf	53,192
					Angles, single or double, floor framing (closure, ledgers, support)	1,108.00 lb	31	3,919	2,183	-	196	-	5.68 /lb	6,297	8.35 /lb	9,255
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	864.00 SF	180	22,305	45,792	-	15,392	-	96.63 /SF	83,488	143.44 /SF	123,933
					Miscellaneous Items and Consumables Allowance	1.00 ls		6,000	12,000	-	6,000	-	24,000.00 /ls	24,000	35,542.03 /ls	35,542
					05.50.05.00 Metals, Gratings	**864.00 SF**	**669**	**89,106**	**78,851**		**44,016**		**245.34 /SF**	**211,973**	**361.05 /SF**	**311,947**
					05.00.004 Metal Grating	**864.00 SF**	**669**	**89,106**	**78,851**		**44,016**		**245.34 /SF**	**211,973**	**361.05 /SF**	**311,947**
			05.00.006		**Access Hatches**											
				05.50.05.20	Metals, Floor Hatches											
					Doors, specialty, access, floor, industrial, aluminum, 300 psf L.L., single leaf, 2.5' x 3.5', 100 lb	2.00 EA	8	992	2,650	-	536	-	2,089.07 /EA	4,178	3,114.08 /EA	6,228
					Doors, specialty, access, floor, industrial, aluminum, 150 psf L.L., double leaf, 4' x 6', 222 lb	2.00 EA	16	1,984	12,000	-	536	-	7,260.15 /EA	14,520	10,923.50 /EA	21,847
					Miscellaneous Items and Consumables Allowance	1.00 ls		1,000	2,000	-	1,000	-	4,000.00 /ls	4,000	5,923.68 /ls	5,924
					05.50.05.20 Metals, Floor Hatches	**4.00 EA**	**24**	**3,976**	**16,650**		**2,072**		**5,674.61 /EA**	**22,698**	**8,499.71 /EA**	**33,999**
					05.00.006 Access Hatches	**4.00 EA**	**24**	**3,976**	**16,650**		**2,072**		**5,674.61 /EA**	**22,698**	**8,499.71 /EA**	**33,999**
					05.00 Metals	***1.00* LS**	**999**	**131,415**	**135,376**		**47,527**		**314,318.19 /LS**	**314,318**	**463,900.13 /LS**	**463,900**
					05.0 Metals	***1.00* LS**	**999**	**131,415**	**135,376**		**47,527**		**314,318.19 /LS**	**314,318**	**463,900.13 /LS**	**463,900**
	09.0				**Finishes**											
		09.90			**Painting and Coating**											
			09.00.003		**Flow Meter Vault Painting and Coatings**											
				09.00.99.00	Finishes, Other											
					Flow Meter Vault and Appurtenances Paintings and Coatings Allowance	1.00 ls	480	43,628	50,000	-	10,400	-	104,027.68 /ls	104,028	153,910.43 /ls	153,910
					09.00.99.00 Finishes, Other	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.43 /LS**	**153,910**
					09.00.003 Flow Meter Vault Painting and Coatings	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.43 /LS**	**153,910**
					09.90 Painting and Coating	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.43 /LS**	**153,910**
					09.0 Finishes	***1.00* LS**	**480**	**43,628**	**50,000**		**10,400**		**104,027.68 /LS**	**104,028**	**153,910.43 /LS**	**153,910**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.002		**Flow Meter Vault HVAC**											
				23.00.02.00	Mechanical, HVAC											
					Gravity Ventilator	2.00 ea	50	5,847	50,000	-	2,500	-	29,173.41 /ea	58,347	38,123.70 /ea	76,247
					23.00.02.00 Mechanical, HVAC	***1.00* LS**	**50**	**5,847**	**50,000**		**2,500**		**58,346.82 /LS**	**58,347**	**76,247.40 /LS**	**76,247**
					23.00.002 Flow Meter Vault HVAC	***1.00* LS**	**50**	**5,847**	**50,000**		**2,500**		**58,346.82 /LS**	**58,347**	**76,247.40 /LS**	**76,247**
					23.00 HVAC	***1.00* LS**	**50**	**5,847**	**50,000**		**2,500**		**58,346.82 /LS**	**58,347**	**76,247.40 /LS**	**76,247**
					23.0 HVAC	***1.00* LS**	**50**	**5,847**	**50,000**		**2,500**		**58,346.82 /LS**	**58,347**	**76,247.40 /LS**	**76,247**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.00.000		**Electrical**											
				26.00.99.00	Electrical, Other											
					Electrical Equipment and Fitout Allowance, Based on Crew, Crew Hours, and Material Allowance	1.00 ls	960	100,144	750,000	0	64,320	-	914,464.32 /ls	914,464	1,192,579.23 /ls	1,192,579
					Site Electrical Equipment and Fitout Allowance, Based on Crew, Crew Hours, and Material Allowance	1.00 ls	960	100,144	750,000		64,320	-	914,464.32 /ls	914,464	1,192,579.22 /ls	1,192,579
					26.00.99.00 Electrical, Other	***1.00* LS**	**1,920**	**200,289**	**1,500,000**		**128,640**		**1,828,928.64 /LS**	**1,828,929**	**2,385,158.45 /LS**	**2,385,158**
					26.00.000 Electrical	***1.00* LS**	**1,920**	**200,289**	**1,500,000**		**128,640**		**1,828,928.64 /LS**	**1,828,929**	**2,385,158.45 /LS**	**2,385,158**
					26.00 Electrical	***1.00* LS**	**1,920**	**200,289**	**1,500,000**		**128,640**		**1,828,928.64 /LS**	**1,828,929**	**2,385,158.45 /LS**	**2,385,158**
					26.0 Electrical Work	***1.00* LS**	**1,920**	**200,289**	**1,500,000**		**128,640**		**1,828,928.64 /LS**	**1,828,929**	**2,385,158.45 /LS**	**2,385,158**
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			31.00.000		**Structural Earthworks**											
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	270.00 cy		-	2,700		-	-	10.00 /cy	2,700	13.17 /cy	3,556
					Clearing & grubbing, brush, including stumps	0.33 AC	63	6,830	-	-	7,454	-	43,284.48 /AC	14,284	53,874.82 /AC	17,779
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	270.00 cy	28	2,747	-	-	2,523	-	19.52 /cy	5,270	24.29 /cy	6,559
					31.15.01.00 Site Preparation, Clearing and Grubbing	**0.33 AC**	**91**	**9,577**	**2,700**		**9,977**		**67,435.42 /AC**	**22,254**	**84,527.88 /AC**	**27,894**
				31.15.04.00	Site Preparation, Erosion Controls											
					Erosion Controls Allowance	1.00 ls				10,000	-	-	10,000.00 /ls	10,000	12,446.68 /ls	12,447
					31.15.04.00 Site Preparation, Erosion Controls	***1.00* LS**				**10,000**			**10,000.00 /LS**	**10,000**	**12,446.68 /LS**	**12,447**
				31.16.01.00	Earthworks, Sheeting and Shoring											
					Shoring Allowance	11,036.00 SF				717,340	-	-	65.00 /SF	717,340	80.90 /SF	892,850
					31.16.01.00 Earthworks, Sheeting and Shoring	**11,036.00 SF**				**717,340**			**65.00 /SF**	**717,340**	**80.90 /SF**	**892,850**
				31.20.06.00	Earthworks, Sitework, Strip Topsoil											
					Stripping, strip topsoil, clay, very hard, 400 HP dozer, ideal condtn	180.00 CY	11	1,190	-	-	3,564	-	26.41 /CY	4,754	32.87 /CY	5,917
					31.20.06.00 Earthworks, Sitework, Strip Topsoil	**180.00 CY**	**11**	**1,190**			**3,564**		**26.41 /CY**	**4,754**	**32.87 /CY**	**5,917**
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	16,440.00 CY	1,604	177,408	-	-	93,594	-	16.48 /CY	271,003	20.52 /CY	337,308
					Stockpile Excavated Spoils	7,490.00 cy	219	24,922	0	-	22,107	-	6.28 /cy	47,029	7.82 /cy	58,536
					Stockpile Excavated Spoils	8,950.00 cy	262	29,781		-	26,416	-	6.28 /cy	56,197	7.82 /cy	69,946
					31.25.01.00 Earthworks, Structural, Excavation	**16,440.00 CY**	**2,085**	**232,111**			**142,117**		**22.76 /CY**	**374,229**	**28.33 /CY**	**465,790**
				31.25.02.00	Earthworks, Structural, Import Aggregates (Slab)											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	442.00 CY	96	9,357	19,669	-	589	-	67.00 /CY	29,615	86.62 /CY	38,287
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**442.00 CY**	**96**	**9,357**	**19,669**		**589**		**67.00 /CY**	**29,615**	**86.62 /CY**	**38,287**
				31.25.03.00	Earthworks, Structural, Backfill Native Fill											
					Fill, from stockpile, 130 H.P., 2-1/2 C.Y., 300' haul, spread fill, with front-end loader, excludes compaction	9,500.00 CY	163	18,515	-	-	17,410	-	3.78 /CY	35,925	4.71 /CY	44,714
					Fill from Stockpile	5,910.00 cy	173	19,665	0	-	17,444	-	6.28 /cy	37,109	7.82 /cy	46,188
					Fill from Stockpile	3,590.00 cy	105	11,945		-	10,596	-	6.28 /cy	22,541	7.82 /cy	28,057
					31.25.03.00 Earthworks, Structural, Backfill Native Fill	**9,500.00 CY**	**441**	**50,125**			**45,449**		**10.06 /CY**	**95,575**	**12.52 /CY**	**118,959**
				31.25.03.10	Earthworks, Structural, Compaction											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.25.03.10	**Earthworks, Structural, Compaction**											
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	9,500.00 CY	163	18,515	-	-	10,596	-	3.06 /CY	29,111	3.81 /CY	36,233
					Compaction, water for, 3000 gallon truck, 3 mile haul	9,500.00 cy	81	9,026	11,305	-	4,687	-	2.63 /cy	25,017	3.36 /cy	31,958
					31.25.03.10 Earthworks, Structural, Compaction	**9,500.00 CY**	**243**	**27,541**	**11,305**		**15,282**		**5.70 /CY**	**54,128**	**7.18 /CY**	**68,191**
				32.40.11.01	**Surface Restorations**											
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	1,296.00 SY	62	6,036	726	-	366	-	5.50 /SY	7,128	6.89 /SY	8,925
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	1,296.00 sy	26	2,701	2,877	-	1,186	-	5.22 /sy	6,764	6.66 /sy	8,627
					32.40.11.01 Surface Restorations	**1,296.00 SY**	**88**	**8,737**	**3,603**		**1,552**		**10.72 /SY**	**13,892**	**13.54 /SY**	**17,552**
					31.00.000 Structural Earthworks	**36,062.00 CY**	**3,056**	**338,638**	**37,277**	**727,340**	**218,531**		**36.65 /CY**	**1,321,786**	**45.70 /CY**	**1,647,887**
					31.20 Earthworks, Site	**36,062.00 CY**	**3,056**	**338,638**	**37,277**	**727,340**	**218,531**		**36.65 /CY**	**1,321,786**	**45.70 /CY**	**1,647,887**
					31.0 Earthwork	***1.00* LS**	**3,056**	**338,638**	**37,277**	**727,340**	**218,531**		**1,321,785.82 /LS**	**1,321,786**	**1,647,886.73 /LS**	**1,647,887**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.004		**Flow Meter Vault Piping and Appurtenances**											
				40.00.99.01	**Process Pipe, Other**											
					144" Dia Piping and Appurtenances	1.00 ls	1,680	175,025	435,000	-	71,499	-	681,524.16 /ls	681,524	879,808.62 /ls	879,809
					Flow Meters, Accusonic Quote May 8, 2023	4.00 ea	640	66,763	***408,607***	-	10,400	-	121,442.47 /ea	485,770	158,561.53 /ea	634,246
					40.00.99.01 Process Pipe, Other	***1.00* LS**	**2,320**	**241,788**	**843,607**		**81,899**		**1,167,294.04 /LS**	**1,167,294**	**1,514,054.73 /LS**	**1,514,055**
					40.00.004 Flow Meter Vault Piping and Appurtenances	***1.00* LS**	**2,320**	**241,788**	**843,607**		**81,899**		**1,167,294.04 /LS**	**1,167,294**	**1,514,054.73 /LS**	**1,514,055**
					40.11 Process Pipe, Carbon Steel	***124.00* LF**	**2,320**	**241,788**	**843,607**		**81,899**		**9,413.66 /LF**	**1,167,294**	**12,210.12 /LF**	**1,514,055**
					40.0 Process Pipe	***1.00* LS**	**2,320**	**241,788**	**843,607**		**81,899**		**1,167,294.04 /LS**	**1,167,294**	**1,514,054.73 /LS**	**1,514,055**
	40.9				**Instrumentation & Controls**											
		40.90			**Instrumentation & Controls**											
			40.90.000		**I&C**											
				40.90.99.01	**I&C, Other**											
					I&C Allowance, Based on 8% of Total	1.00 ls		0	0	500,000	-	-	500,000.00 /ls	500,000	622,333.86 /ls	622,334
					40.90.99.01 I&C, Other	***1.00* LS**				**500,000**			**500,000.00 /LS**	**500,000**	**622,333.86 /LS**	**622,334**
					40.90.000 I&C	***1.00* LS**				**500,000**			**500,000.00 /LS**	**500,000**	**622,333.86 /LS**	**622,334**
					40.90 Instrumentation & Controls	***1.00* LS**				**500,000**			**500,000.00 /LS**	**500,000**	**622,333.86 /LS**	**622,334**
					40.9 Instrumentation & Controls	***1.00* LS**				**500,000**			**500,000.00 /LS**	**500,000**	**622,333.86 /LS**	**622,334**
					2190 Funks Reservoir Flow Meter Vault	***1.00* LS**	**13,437**	**1,457,628**	**3,244,641**	**1,227,340**	**512,186**		**6,441,795.03 /LS**	**6,441,795**	**8,566,218.83 /LS**	**8,566,219**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	105,377,371		1,037,819.233	
Material	179,178,296			
Subcontractor	10,037,173			
Equipment	50,037,585		278,909.936	
Other				
Subtotal Direct Costs	**344,630,425**	**344,630,425**		
Material Sales Tax, Dunnigan Ca	12,990,426			7.250 %
Subtotal W/ Sales Tax	**12,990,426**	**357,620,851**		
Concrete Sub OH&P	883,620			20.000 %
Architectural Sub OH&P	174,195			20.000 %
Tunneling Sub Profit	12,707,311			10.000 %
Subtotal w/ Sub Markup	**13,765,126**	**371,385,977**		
Mobilization/Demobilization	11,141,579			3.000 %
Prime Contractor Overhead	38,252,756			10.000 %
Prime Contractor Profit	25,246,819			6.000 %
Bonds & Insurance	9,678,789			2.170 %
Subtotal W/ Prime Markups	**84,319,943**	**455,705,920**		
Contractor Contingency	13,671,178			3.000 %
Design Contingency	82,027,065			18.000 %
Subtotal W/ Contingency	**95,698,243**	**551,404,163**		
Opinion of Probable Construction Costs		**551,404,163**		

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Appendix E
Package 2
Funks PGP Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2000	**General Conditions**	***1.00*** **LS**	**18,552,921.50 /LS**	**18,552,922**
2110	**Sitework**	***1.00*** **LS**	**47,415,564.78 /LS**	**47,415,565**
2145	**Funks PGP Administration and Operations Building**	***1.00*** **LS**	**2,058,084.57 /LS**	**2,058,085**
2150	**Funks PGP Maintenance and Storage Building**	***1.00*** **LS**	**1,189,266.96 /LS**	**1,189,267**
2155	**Funks PGP Pumping Plant**	***1.00*** **LS**	**78,387,364.58 /LS**	**78,387,365**
2160	**Funks PGP Switchgear Building**	***1.00*** **LS**	**9,128,022.87 /LS**	**9,128,023**
2165	**Funks PGP Generating Plant**	***1.00*** **LS**	**25,458,341.97 /LS**	**25,458,342**
2170	**Funks PGP Chiller Yard**	***1.00*** **LS**	**1,597,006.10 /LS**	**1,597,006**
2171	**Funks PGP HVAC Building**	***1.00*** **LS**	**1,957,463.64 /LS**	**1,957,464**
2175	**Funks PGP Emergency Dissipation Structure**	***1.00*** **LS**	**24,789,102.69 /LS**	**24,789,103**
2180	**Funks PGP Fire Water Tank**	***1.00*** **LS**	**1,282,720.77 /LS**	**1,282,721**
2181	**Funks PGP Fire Water Pumping Plant**	***1.00*** **LS**	**449,909.92 /LS**	**449,910**
2185	**Funks PGP Surge Control System**	***1.00*** **LS**	**1,535,663.29 /LS**	**1,535,663**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	74,551,521		506,625.100	
Material	91,787,448			
Subcontractor	13,814,787			
Equipment	9,768,144		148,946.193	
Other	23,879,535			
Subtotal w/ OFCI Equipment	**213,801,435**	**213,801,435**		
Contractor Contingency	6,414,043			3.000 %
Design Contingency	38,484,258			18.000 %
Opinion of Probable Construction Costs	**44,898,301**	**258,699,736**		

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Work Activity Summary Report

Project Name: Funks PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2000				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	309,220.32 /LS	309,220
			01.I5.005	GC Labor	1.00 LS	7,235,841.04 /LS	7,235,841
			01.I5.010	Jobsite Office	1.00 LS	803,006.04 /LS	803,006
			01.I5.011	Temporary Facilities	1.00 LS	1,054,965.74 /LS	1,054,966
			01.I5.012	Temporary Services	1.00 LS	420,767.02 /LS	420,767
			01.I5.013	Travel	1.00 LS	1,883,477.60 /LS	1,883,478
			01.I5.014	Site Cleanup	1.00 LS	560,191.13 /LS	560,191
			01.I5.014A	Site Safety	1.00 LS	1,321,990.05 /LS	1,321,990
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	747,813.72 /LS	747,814
			01.I5.016	Material Handling	1.00 LS	2,201,967.55 /LS	2,201,968
			01.I5.020	GC Indirect Services & Support	1.00 LS	575,151.96 /LS	575,152
			01.I6.000	Quality Control	1.00 LS	1,438,529.33 /LS	1,438,529
				01.01 Construction Operations	24.00 MO	773,038.40 /MO	18,552,922
				01.0 General Requirements	24.00 MO	773,038.40 /MO	18,552,922
				2000 General Conditions	**1.00 LS**	**18,552,921.50 /LS**	**18,552,922**
2110				**Sitework**			
	26.0			Electrical Work			
		26.10		Site Electrical			
			26.02.ADM	Primary to Admin Building from SWGR Building	1.00 LS	131,902.58 /LS	131,903
			26.02.FO	Fiber Network	3,500.00 LF	87.73 /LF	307,069
			26.02.LV	LV UG Conduits	1.00 LS	24,336.38 /LS	24,336
			26.02.OFFSITE	Primary to MH for OH MV by others (Dam/Inlet-Outlet)5	1.00 LS	199,250.99 /LS	199,251
			26.20.DB	Site Ductbanks	1.00 LS	324,198.69 /LS	324,199
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	157,184.98 /LS	157,185
			28.20.AC	Access Control System	1.00 LS	25,149.60 /LS	25,150
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	94,311.00 /LS	94,311
				26.10 Site Electrical	1.00 LS	1,263,403.12 /LS	1,263,403
				26.0 Electrical Work	1.00 LS	1,263,403.12 /LS	1,263,403
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.25.00.0010	Structural Earthworks	1.00 LS	6,448,320.14 /LS	6,448,320
				31.25 Earthworks, Structural	272,100.00 CY	23.70 /CY	6,448,320
				31.0 Earthwork	1.00 LS	6,448,320.14 /LS	6,448,320
	32.0			Exterior Improvements			
		32.12		Paving			
			MOA-32.12.001	Ashphalt Paving	37,513.67 SY	54.42 /SY	2,041,436
				32.12 Paving	37,513.67 SY	54.42 /SY	2,041,436
		32.31		Fencing			
			MOA-32.10.001	Security Fencing	7,614.00 LF	197.95 /LF	1,507,216
				32.31 Fencing	7,614.00 LF	197.95 /LF	1,507,216
		32.50		Site, Improvements			
			MOA-32.15.001	Retaining Walls 1-4	48,620.00 SF	383.88 /SF	18,664,044
				32.50 Site, Improvements	1.00 LS	18,664,043.74 /LS	18,664,044
				32.0 Exterior Improvements	48,620.00 SF	456.86 /SF	22,212,695
	33.0			Utilities			
		33.02		Buried Process Pipe, Ductile Iron			
			MOA-33.25.008	Fire Protection Yard Piping	1,045.00 LF	243.40 /LF	254,350
				33.02 Buried Process Pipe, Ductile Iron	1,045.00 LF	243.40 /LF	254,350
		33.03		Buried Process Pipe, Carbon Steel			
			MOA-33.25.001	144" Dia WSP Yard Piping	2,651.00 LF	5,995.02 /LF	15,892,788
			MOA-33.25.004	126" Dia WSP Yard Piping	134.00 LF	5,665.81 /LF	759,219
			MOA-33.25.006	102" Dia WSP Yard Piping	105.00 LF	5,569.43 /LF	584,790
				33.03 Buried Process Pipe, Carbon Steel	2,890.00 LF	5,964.29 /LF	17,236,797
				33.0 Utilities	3,935.00 LF	4,445.02 /LF	17,491,147
				2110 Sitework	**1.00 LS**	**47,415,564.78 /LS**	**47,415,565**
2145				**Funks PGP Administration and Operations Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.001	6" thick Slab on Grade	68.44 CY	2,504.02 /CY	171,385
				03.18 Cast-In-Place Concrete, Slabs on Grade	68.44 CY	2,504.02 /CY	171,385
				03.0 Concrete Work	68.44 CY	2,504.02 /CY	171,385
	04.0			Masonry - Architectural			
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	2,903.76 SF	73.61 /SF	213,754
				04.21 Concrete Unit Masonry - Exterior	2,903.76 SF	73.61 /SF	213,754
				04.0 Masonry - Architectural	2,903.76 SF	73.61 /SF	213,754
	05.0			Metals			
		05.10		Structural Steel			
			MOA-05.10.001	Steel Roof Joist	0.50 TN	149,010.20 /TN	74,505
				05.10 Structural Steel	1.00 LS	74,505.10 /LS	74,505
				05.0 Metals	1.00 LS	74,505.10 /LS	74,505
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			MOA-07.00.001	Metal Roof	4,379.00 SF	19.59 /SF	85,790

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				07.00 Thermal & Moisture Protection	1.00 LS	85,790.41 /LS	85,790
				07.0 Thermal and Moisture Protection	1.00 LS	85,790.41 /LS	85,790
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	6,618.51 /EA	26,474
			MOA-08.50.001	Exterior Windows	278.00 SF	365.64 /SF	101,647
				08.10 Doors and Frames - Exterior Doors	4.00 EA	32,030.17 /EA	128,121
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	16.00 EA	4,172.87 /EA	66,766
				08.15 Doors and Frames - Interior Doors	16.00 EA	4,172.87 /EA	66,766
				08.0 Openings	20.00 EA	9,744.33 /EA	194,887
	09.0			Finishes			
		09.20		Plaster and Gypsum Board			
			09.00.000	Metal Stud Walls	11,270.00 SF	6.22 /SF	70,150
				09.20 Plaster and Gypsum Board	11,270.00 SF	6.22 /SF	70,150
		09.50		Ceilings			
			09.00.002	Building Ceilings	3,116.00 SF	15.07 /SF	46,971
				09.50 Ceilings	3,116.00 SF	15.07 /SF	46,971
		09.60		Flooring			
			09.00.004	Building Flooring	559.00 SF	72.55 /SF	40,556
				09.60 Flooring	559.00 SF	72.55 /SF	40,556
		09.90		Painting and Coating			
			09.00.006	Building Paintings and Coatings	11,444.00 SF	2.74 /SF	31,348
				09.90 Painting and Coating	11,444.00 SF	2.74 /SF	31,348
				09.0 Finishes	1.00 LS	189,025.54 /LS	189,026
	10.0			Specialties			
		10.00		Specialties			
			MOA-10.00.001	Toilet Specialties	1.00 LS	27,408.60 /LS	27,409
				10.00 Specialties	1.00 LS	27,408.60 /LS	27,409
				10.0 Specialties	1.00 LS	27,408.60 /LS	27,409
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.00.010	Administration and Operations Building, Fire Sprinkler System	3,413.00 SF	23.76 /SF	81,081
				21.00 Fire Sprinkler	1.00 LS	81,081.06 /LS	81,081
				21.0 Fire Suppression	1.00 LS	81,081.06 /LS	81,081
	22.0			Plumbing			
		22.00		Plumbing			
			22.00.00.010	Administration and Operations Building, Plumbing	1.00 LS	59,769.95 /LS	59,770
				22.00 Plumbing	1.00 LS	59,769.95 /LS	59,770
				22.0 Plumbing	1.00 LS	59,769.95 /LS	59,770
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.010	Administration and Operations Building, HVAC	1.00 LS	167,208.08 /LS	167,208
				23.00 HVAC	1.00 LS	167,208.08 /LS	167,208
				23.0 HVAC	1.00 LS	167,208.08 /LS	167,208
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	36,169.59 /LS	36,170
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	13,365.58 /LS	13,366
				26.15 Process Electrical	1.00 LS	49,535.17 /LS	49,535
		26.20		Facility Electrical			
			26.02.LV	LV UG Conduits	1.00 LS	203,044.47 /LS	203,044
			26.05.GRDG	Facility Grounding	1.00 LS	13,771.75 /LS	13,772
			26.25.LTG	Interior Lighting and Control	1.00 LS	77,653.79 /LS	77,654
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	30,346.73 /LS	30,347
			26.30.DEV	Device Outlets	1.00 LS	36,167.70 /LS	36,168
			26.90.LPS	Facility Lightning Protection System	1.00 LS	27,466.76 /LS	27,467
				26.20 Facility Electrical	1.00 LS	388,451.20 /LS	388,451
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	91,671.71 /LS	91,672
				26.25 Electrical Equipment	1.00 LS	91,671.71 /LS	91,672
				26.0 Electrical Work	1.00 LS	529,658.08 /LS	529,658
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.10.COMEQ	Communications Room Equipment	1.00 LS	5,676.40 /LS	5,676
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	168,998.82 /LS	168,999
				27.00 Telecommunications	1.00 LS	174,675.22 /LS	174,675
				27.0 Telecommunications - Network	1.00 LS	174,675.22 /LS	174,675
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	1.00 LS	47,064.43 /LS	47,064
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	41,872.33 /LS	41,872
				28.00 Electronic Safety and Security	1.00 LS	88,936.76 /LS	88,937
				28.0 Electronic Safety and Security	1.00 LS	88,936.76 /LS	88,937
				2145 Funks PGP Administration and Operations Building	1.00 LS	2,058,084.57 /LS	2,058,085
2150				**Funks PGP Maintenance and Storage Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			MOA-03.20.002	8" thick Slab on Grade	134.00 CY	1,286.28 /CY	172,362
				03.18 Cast-In-Place Concrete, Slabs on Grade	134.00 CY	1,286.28 /CY	172,362
				03.0 Concrete Work	134.00 CY	1,286.28 /CY	172,362
	04.0			Masonry - Architectural			
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	3,534.81 SF	45.26 /SF	159,997
				04.21 Concrete Unit Masonry - Exterior	3,534.81 SF	45.26 /SF	159,997
		04.23		Concrete Unit Masonry - Interior			
			MOA-04.23.001	8" thick Interior CMU Wall	744.15 SF	49.86 /SF	37,102
				04.23 Concrete Unit Masonry - Interior	744.15 SF	49.86 /SF	37,102
				04.0 Masonry - Architectural	4,278.97 SF	46.06 /SF	197,098
	05.0			Metals			
		05.10		Structural Steel			
			MOA-05.10.001	Steel Roof Joist	0.65 TN	82,993.11 /TN	53,946
				05.10 Structural Steel	*1.00* LS	53,945.52 /LS	53,946
				05.0 Metals	*1.00* LS	53,945.52 /LS	53,946
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			MOA-07.00.001	Metal Roof	4,272.00 SF	19.38 /SF	82,811
				07.00 Thermal & Moisture Protection	*1.00* LS	82,811.27 /LS	82,811
				07.0 Thermal and Moisture Protection	*1.00* LS	82,811.27 /LS	82,811
	08.0			Openings			
		08.00		Openings			
			MOA-08.10.001	Exterior Doors	2.00 EA	7,347.09 /EA	14,694
				08.00 Openings	*1.00* LS	14,694.17 /LS	14,694
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	6.00 EA	4,610.03 /EA	27,660
				08.10 Doors and Frames - Exterior Doors	6.00 EA	4,610.03 /EA	27,660
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	5.00 EA	3,419.98 /EA	17,100
				08.15 Doors and Frames - Interior Doors	5.00 EA	3,419.98 /EA	17,100
				08.0 Openings	13.00 EA	4,573.40 /EA	59,454
	09.0			Finishes			
		09.20		Plaster and Gypsum Board			
			MOA-09.20.001	3-5/8" thick Interior Metal Stud Wall - Type A	2,134.55 SF	10.75 /SF	22,952
			MOA-09.20.002	3-5/8" thick Interior Metal Stud Wall - Type B	1,176.00 SF	6.21 /SF	7,308
				09.20 Plaster and Gypsum Board	3,310.55 SF	9.14 /SF	30,261
		09.90		Painting and Coating			
			MOA-07.10.001	Paintings and Coatings	4,272.00 SF	3.28 /SF	14,028
				09.90 Painting and Coating	4,272.00 SF	3.28 /SF	14,028
				09.0 Finishes	*1.00* LS	44,288.72 /LS	44,289
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.00.020	Maintenance and Storage Building, Fire Sprinkler System	3,356.00 SF	22.63 /SF	75,962
				21.00 Fire Sprinkler	*1.00* LS	75,961.85 /LS	75,962
				21.0 Fire Suppression	*1.00* LS	75,961.85 /LS	75,962
	22.0			Plumbing			
		22.00		Plumbing			
			22.00.00.020	Maintenance and Storage Building, Plumbing	*1.00* LS	29,203.86 /LS	29,204
				22.00 Plumbing	*1.00* LS	29,203.86 /LS	29,204
				22.0 Plumbing	*1.00* LS	29,203.86 /LS	29,204
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.020	Maintenance and Storage Building, HVAC	*1.00* LS	147,703.58 /LS	147,704
				23.00 HVAC	*1.00* LS	147,703.58 /LS	147,704
				23.0 HVAC	*1.00* LS	147,703.58 /LS	147,704
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.40.EQCON	Facility Equipment Connections and Controls	*1.00* LS	18,402.41 /LS	18,402
				26.15 Process Electrical	*1.00* LS	18,402.41 /LS	18,402
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	*1.00* LS	11,330.82 /LS	11,331
			26.25.LTG	Interior Lighting and Control	*1.00* LS	39,386.05 /LS	39,386
			26.26.EXTLTG	Exterior Lighting and Control	*1.00* LS	25,264.72 /LS	25,265
			26.30.DEV	Device Outlets	*1.00* LS	34,679.71 /LS	34,680
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	50,147.35 /LS	50,147
				26.20 Facility Electrical	*1.00* LS	160,808.65 /LS	160,809
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	*1.00* LS	33,207.65 /LS	33,208
				26.25 Electrical Equipment	*1.00* LS	33,207.65 /LS	33,208
				26.0 Electrical Work	*1.00* LS	212,418.71 /LS	212,419
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	*1.00* LS	72,146.29 /LS	72,146
			28.20.CCTV	Closed Circuit TV and Cameras	*1.00* LS	41,872.32 /LS	41,872
				28.00 Electronic Safety and Security	*1.00* LS	114,018.61 /LS	114,019
				28.0 Electronic Safety and Security	*1.00* LS	114,018.61 /LS	114,019
				2150 Funks PGP Maintenance and Storage Building	*1.00* LS	1,189,266.96 /LS	1,189,267
2155				**Funks PGP Pumping Plant**			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
	03.0			Concrete Work			
		03.13		Cast-In-Place Concrete, Continuous Footings			
			MOA-03.00.001	3'-0" wide, 18" thick Continuous Footing	0.33 CY	1,206.10 /CY	402
				03.13 Cast-In-Place Concrete, Continuous Footings	0.33 CY	1,206.10 /CY	402
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.003	3'-0" thick Mat Slab on Grade	2,369.89 CY	1,202.34 /CY	2,849,424
			MOA-03.20.004	3'-0" thick Inclined Mat Slab on Grade	1,417.67 CY	1,119.24 /CY	1,586,708
				03.18 Cast-In-Place Concrete, Slabs on Grade	3,787.56 CY	1,171.24 /CY	4,436,131
		03.20		Cast-In-Place Concrete, Straight Walls			
			MOA-03.25.001	2'-0" thick CIP Exterior Wall - 38'-0" high	760.00 CY	3,408.36 /CY	2,590,355
			MOA-03.25.002	4'-8" thick CIP Exterior Wall - 41'-0" high	3,390.00 CY	1,815.92 /CY	6,155,980
			MOA-03.25.003	1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay	670.00 CY	2,355.86 /CY	1,578,423
			MOA-03.25.004	2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay	1,355.00 CY	2,014.43 /CY	2,729,556
			MOA-03.25.005	6" thick CIP Interior Wall - 41'-0" high - Intake Bay	136.00 CY	5,076.11 /CY	690,351
			MOA-03.25.006	3'-0" thick CIP Interior Wall - 41'-0" high	5,622.00 CY	1,673.86 /CY	9,410,449
				03.20 Cast-In-Place Concrete, Straight Walls	11,933.00 CY	1,940.43 /CY	23,155,114
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.001	4" thick CIP Concrete Roof Deck	4,327.00 CY	1,572.14 /CY	6,802,641
				03.24 Cast-In-Place Concrete, Elevated Slabs	4,327.00 CY	1,572.14 /CY	6,802,641
				03.0 Concrete Work	20,047.89 CY	1,715.61 /CY	34,394,288
	04.0			Masonry - Architectural			
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	9,908.42 SF	61.27 /SF	607,054
			MOA-04.21.002	8" thick Exterior CMU Wall - uninsulated	2,656.00 SF	58.88 /SF	156,393
				04.21 Concrete Unit Masonry - Exterior	12,564.42 SF	60.76 /SF	763,447
		04.23		Concrete Unit Masonry - Interior			
			MOA-04.23.001	8" thick Interior CMU Wall	1,515.89 SF	45.95 /SF	69,653
				04.23 Concrete Unit Masonry - Interior	1,515.89 SF	45.95 /SF	69,653
				04.0 Masonry - Architectural	14,080.31 SF	59.17 /SF	833,099
	05.0			Metals			
		05.00		Metals			
			05.00.004	Metal Grating	1,138.00 SF	139.85 /SF	159,146
			05.00.010	Trash Racks	1.00 LS	1,812,153.22 /LS	1,812,153
			MOA-05.20.001	Steel Platform	1.00 LS	1,003,099.37 /LS	1,003,099
				05.00 Metals	1.00 LS	2,974,398.81 /LS	2,974,399
				05.0 Metals	1.00 LS	2,974,398.81 /LS	2,974,399
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	116.00 SQ	1,399.68 /SQ	162,363
			MOA-07.00.001	Metal Roof	9,540.00 SF	195.27 /SF	1,862,835
				07.00 Thermal & Moisture Protection	1.00 LS	2,025,198.74 /LS	2,025,199
				07.0 Thermal and Moisture Protection	1.00 LS	2,025,198.74 /LS	2,025,199
	08.0			Openings			
		08.00		Openings			
			MOA-08.10.001	Exterior Doors	4.00 EA	7,347.07 /EA	29,388
				08.00 Openings	1.00 LS	29,388.29 /LS	29,388
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	14.00 EA	5,208.01 /EA	72,912
				08.10 Doors and Frames - Exterior Doors	14.00 EA	5,208.01 /EA	72,912
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	3.00 EA	2,196.37 /EA	6,589
				08.15 Doors and Frames - Interior Doors	3.00 EA	2,196.37 /EA	6,589
				08.0 Openings	21.00 EA	5,185.21 /EA	108,889
	09.0			Finishes			
		09.20		Plaster and Gypsum Board			
			MOA-09.20.001	3-5/8" thick Interior Metal Stud Wall - Type A	436.51 SF	13.20 /SF	5,763
				09.20 Plaster and Gypsum Board	436.51 SF	13.20 /SF	5,763
				09.0 Finishes	1.00 LS	5,762.99 /LS	5,763
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.40.PMP	13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	1.00 LS	20,239,579.32 /LS	20,239,579
				26.15 Process Electrical	1.00 LS	20,239,579.32 /LS	20,239,579
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	1.00 LS	30,462.92 /LS	30,463
			26.25.LTG	Interior Lighting and Control	1.00 LS	140,916.43 /LS	140,916
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	14,715.77 /LS	14,716
			26.30.DEV	Device Outlets	1.00 LS	8,013.68 /LS	8,014
			26.90.LPS	Facility Lightning Protection System	1.00 LS	39,694.25 /LS	39,694
				26.20 Facility Electrical	1.00 LS	233,803.05 /LS	233,803
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	255,783.08 /LS	255,783
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	8,570.70 /LS	8,571
				26.25 Electrical Equipment	1.00 LS	264,353.78 /LS	264,354
				26.0 Electrical Work	1.00 LS	20,737,736.15 /LS	20,737,736
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	69,623.31 /LS	69,623
				27.00 Telecommunications	1.00 LS	69,623.31 /LS	69,623

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				27.0 Telecommunications - Network	1.00 LS	69,623.31 /LS	69,623
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	1.00 LS	61,707.25 /LS	61,707
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	61,368.93 /LS	61,369
				28.00 Electronic Safety and Security	1.00 LS	123,076.18 /LS	123,076
				28.0 Electronic Safety and Security	1.00 LS	123,076.18 /LS	123,076
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.300	Funk PGP, Process Piping	720.00 LF	6,207.59 /LF	4,469,468
				40.11 Process Pipe, Carbon Steel	720.00 LF	6,207.59 /LF	4,469,468
				40.0 Process Pipe	720.00 LF	6,207.59 /LF	4,469,468
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			40.90.I&C	Instrumentation & Control	1.00 LS	236,641.05 /LS	236,641
				40.90 Instrumentation & Controls	1.00 LS	236,641.05 /LS	236,641
				40.9 Instrumentation	1.00 LS	236,641.05 /LS	236,641
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.40.300	Funk PGP, Furnish and Install Pumps	12.00 EA	1,034,098.59 /EA	12,409,183
				44.40 Process Equipment - Pumps	12.00 EA	1,034,098.59 /EA	12,409,183
				44.0 Pollution and Waste Control Equipment	12.00 EA	1,034,098.59 /EA	12,409,183
				2155 Funks PGP Pumping Plant	**1.00 LS**	**78,387,364.58 /LS**	**78,387,365**
2160				**Funks PGP Switchgear Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.002	8" thick Slab on Grade	150.00 CY	1,231.88 /CY	184,782
				03.18 Cast-In-Place Concrete, Slabs on Grade	150.00 CY	1,231.88 /CY	184,782
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.001	4" thick CIP Concrete Roof Deck	2.03 CY	6,756.36 /CY	13,722
				03.24 Cast-In-Place Concrete, Elevated Slabs	2.03 CY	6,756.36 /CY	13,722
		03.27		Cast-In-Place Concrete, Equipment Pads			
			MOA-03.15.001	4" thick Equipment Pad	8.26 CY	1,562.29 /CY	12,903
				03.27 Cast-In-Place Concrete, Equipment Pads	8.26 CY	1,562.29 /CY	12,903
				03.0 Concrete Work	160.29 CY	1,318.90 /CY	211,407
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	35.10 SQ	1,974.78 /SQ	69,315
			MOA-07.00.001	Metal Roof	2,850.00 SF	113.71 /SF	324,064
				07.00 Thermal & Moisture Protection	1.00 LS	393,378.81 /LS	393,379
				07.0 Thermal and Moisture Protection	1.00 LS	393,378.81 /LS	393,379
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	5,677.39 /EA	22,710
				08.10 Doors and Frames - Exterior Doors	4.00 EA	5,677.39 /EA	22,710
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	1.00 EA	2,196.37 /EA	2,196
				08.15 Doors and Frames - Interior Doors	1.00 EA	2,196.37 /EA	2,196
				08.0 Openings	5.00 EA	4,981.18 /EA	24,906
	09.0			Finishes			
		09.20		Plaster and Gypsum Board			
			MOA-09.20.002	3-5/8" thick Interior Metal Stud Wall - Type B	2,110.00 SF	12.90 /SF	27,223
				09.20 Plaster and Gypsum Board	2,110.00 SF	12.90 /SF	27,223
		09.60		Flooring			
			MOA-09.00.001	Floor Finishes	2,783.00 SF	1.04 /SF	2,901
				09.60 Flooring	2,783.00 SF	1.04 /SF	2,901
				09.0 Finishes	1.00 LS	30,123.65 /LS	30,124
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.05.GEN	Generator	1.00 EA	361,686.76 /EA	361,687
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	25,251.78 /LS	25,252
				26.15 Process Electrical	1.00 LS	386,938.54 /LS	386,939
		26.20		Facility Electrical			
			26.02.LV	LV UG Conduits	1.00 LS	400,131.24 /LS	400,131
			26.02.PRI	Primary Feeds fromSubstation	600.00 LF	801.21 /LF	480,724
			26.04.MVBUS	Medium Voltage Overhead Bus Duct 2000A	354.00 LF	4,342.07 /LF	1,537,093
			26.05.GRDG	Facility Grounding	1.00 LS	9,817.24 /LS	9,817
			26.25.LTG	Interior Lighting and Control	1.00 LS	23,087.23 /LS	23,087
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	20,848.33 /LS	20,848
			26.30.DEV	Device Outlets	1.00 LS	28,912.67 /LS	28,913
			26.90.LPS	Facility Lightning Protection System	1.00 LS	37,444.09 /LS	37,444
				26.20 Facility Electrical	1.00 LS	2,538,057.28 /LS	2,538,057
		26.25		Electrical Equipment			
			26.03.LVSWBD	LV Switchboards	1.00 LS	668,197.06 /LS	668,197
			26.03.MVSWGR	MV Switchgear	47,600.00 FA	87.84 /FA	4,181,195
			26.03.SWGREQ	Station Aux Xfmr, Btty	1.00 LS	270,832.80 /LS	270,833
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	246,358.20 /LS	246,358
				26.25 Electrical Equipment	1.00 LS	5,366,583.26 /LS	5,366,583

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				26.0 Electrical Work	1.00 LS	8,291,579.08 /LS	8,291,579
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	16,017.19 /LS	16,017
				27.00 Telecommunications	1.00 LS	16,017.19 /LS	16,017
				27.0 Telecommunications - Network	1.00 LS	16,017.19 /LS	16,017
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	1.00 LS	86,152.33 /LS	86,152
			28.20.AC	Access Control System	1.00 LS	9,760.93 /LS	9,761
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	45,358.44 /LS	45,358
			28.20.ID	Intrusion Detection System	1.00 LS	19,339.32 /LS	19,339
				28.00 Electronic Safety and Security	1.00 LS	160,611.02 /LS	160,611
				28.0 Electronic Safety and Security	1.00 LS	160,611.02 /LS	160,611
				2160 Funks PGP Switchgear Building	**1.00 LS**	**9,128,022.87 /LS**	**9,128,023**
2165				**Funks PGP Generating Plant**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.005	4'-0" thick Mat Slab on Grade	874.00 CY	1,189.95 /CY	1,040,019
				03.18 Cast-In-Place Concrete, Slabs on Grade	874.00 CY	1,189.95 /CY	1,040,019
		03.20		Cast-In-Place Concrete, Straight Walls			
			MOA-03.25.011	1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade	56.00 CY	3,288.04 /CY	184,131
			MOA-03.25.012	3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade	1,660.00 CY	1,674.43 /CY	2,779,556
			MOA-03.25.013	1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	1,082.00 CY	1,748.83 /CY	1,892,231
			MOA-03.25.014	1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	60.00 CY	3,049.91 /CY	182,994
			MOA-03.25.015	2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	24.00 CY	2,023.25 /CY	48,558
			MOA-03.25.016	3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade	263.00 CY	1,674.37 /CY	440,360
				03.20 Cast-In-Place Concrete, Straight Walls	3,145.00 CY	1,757.66 /CY	5,527,830
		03.23		Cast-In-Place Concrete, Columns			
			MOA-03.27.001	2'-6" x 2'-6" CIP Column - CC01; 22'-3" high	67.00 CY	3,741.15 /CY	250,657
			MOA-03.27.002	3'-0" x 3'-0" CIP Column; 30'-4" high	41.00 CY	3,487.28 /CY	142,978
				03.23 Cast-In-Place Concrete, Columns	108.00 CY	3,644.77 /CY	393,635
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.002	4'-0" thick CIP Concrete Roof Deck	1,090.00 CY	1,564.77 /CY	1,705,603
			MOA-03.30.003	2'-0" thick CIP Upper Floor	493.00 CY	2,106.72 /CY	1,038,611
				03.24 Cast-In-Place Concrete, Elevated Slabs	1,583.00 CY	1,733.55 /CY	2,744,213
		03.25		Cast-In-Place Concrete, Elevated Beams			
			MOA-03.26.001	36" x 24" CIP Beam - CB02	24.00 CY	2,183.84 /CY	52,412
			MOA-03.26.002	48" x 36" CIP Beam - CB03	48.00 CY	1,874.43 /CY	89,973
			MOA-03.26.003	36" x 24" CIP Beam - CB04	43.00 CY	2,190.34 /CY	94,185
				03.25 Cast-In-Place Concrete, Elevated Beams	115.00 CY	2,057.13 /CY	236,570
		03.60		Concrete Miscellaneous			
			03.00.200	Lean Concrete Fill	1,400.00 CY	346.02 /CY	484,427
				03.60 Concrete Miscellaneous	1.00 LS	484,426.50 /LS	484,427
				03.0 Concrete Work	7,225.00 CY	1,443.14 /CY	10,426,694
	03.2			Precast Concrete			
		03.40		Precast Concrete			
			03.54.000	Precast Concrete Removable Panels	1,762.00 SF	88.37 /SF	155,705
				03.40 Precast Concrete	1.00 LS	155,705.45 /LS	155,705
				03.2 Precast Concrete	1,762.00 SF	88.37 /SF	155,705
	05.0			Metals			
		05.00		Metals			
			05.50.00.004	Aluminum Grating	630.00 SF	123.26 /SF	77,656
			MOA-05.10.002	Metal Stairs	76.00 RISR	1,720.30 /RISR	130,743
				05.00 Metals	1.00 LS	208,398.33 /LS	208,398
		05.10		Structural Steel			
			MOA-05.10.001	Steel Roof Joist	2.00 TN	16,975.98 /TN	33,952
				05.10 Structural Steel	1.00 LS	33,951.96 /LS	33,952
				05.0 Metals	1.00 LS	242,350.29 /LS	242,350
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.002	Transluscent Panel Roofing	744.00 SF	118.14 /SF	87,898
			MOA-07.00.001	Metal Roof	0.00	/SF	7,988
				07.00 Thermal & Moisture Protection	1.00 LS	95,885.92 /LS	95,886
				07.0 Thermal and Moisture Protection	1.00 LS	95,885.92 /LS	95,886
	08.0			Openings			
		08.00		Openings			
			MOA-08.10.001	Exterior Doors	3.00 EA	27,008.25 /EA	81,025
				08.00 Openings	1.00 LS	81,024.74 /LS	81,025
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	5,208.01 /EA	20,832
				08.10 Doors and Frames - Exterior Doors	4.00 EA	5,208.01 /EA	20,832
				08.0 Openings	7.00 EA	14,550.97 /EA	101,857
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.500	Funk PGP Generating Plant, Fire Suppression	1.00 LS	149,202.89 /LS	149,203
				21.00 Fire Sprinkler	1.00 LS	149,202.89 /LS	149,203
				21.0 Fire Suppression	1.00 LS	149,202.89 /LS	149,203
	23.0			HVAC			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
		23.00		HVAC			
			23.00.00.025	Funks PGP Generating Plant, HVAC	42.75 SF	2,641.29 /SF	112,915
				23.00 HVAC	1.00 LS	112,914.96 /LS	112,915
				23.0 HVAC	1.00 LS	112,914.96 /LS	112,915
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.04.MVVSD	Medium Voltage Variable Speed Drives	1.00 LS	73,066.06 /LS	73,066
			26.40.HYDTURB	13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A	2,320.00 LF	194.98 /LF	452,359
			26.41.HYDTURB	Hyd Turbine Controls Circuits	1,160.00 LF	142.84 /LF	165,697
				26.15 Process Electrical	1.00 LS	691,122.35 /LS	691,122
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	1.00 LS	16,715.58 /LS	16,716
			26.12.SEC	Subfeed from Elec Building	600.00 LF	103.86 /LF	62,314
			26.25.LTG	Interior Lighting and Control	1.00 LS	29,928.60 /LS	29,929
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	9,544.55 /LS	9,545
			26.30.DEV	Device Outlets	1.00 LS	22,534.68 /LS	22,535
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	53,466.56 /LS	53,467
			26.90.LPS	Facility Lightning Protection System	1.00 LS	11,862.30 /LS	11,862
				26.20 Facility Electrical	1.00 LS	206,366.27 /LS	206,366
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	63,620.72 /LS	63,621
				26.25 Electrical Equipment	1.00 LS	63,620.72 /LS	63,621
				26.0 Electrical Work	1.00 LS	961,109.34 /LS	961,109
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.30.COMCDT	Comm Conduit to Admin	1,200.00 LF	72.74 /LF	87,283
				27.00 Telecommunications	1.00 LS	87,282.53 /LS	87,283
				27.0 Telecommunications - Network	1.00 LS	87,282.53 /LS	87,283
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.20.AC	Access Control System	1.00 LS	6,507.29 /LS	6,507
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	11,159.43 /LS	11,159
			28.20.ID	Intrusion Detection System	1.00 LS	14,459.90 /LS	14,460
				28.00 Electronic Safety and Security	1.00 LS	32,126.62 /LS	32,127
				28.0 Electronic Safety and Security	1.00 LS	32,126.62 /LS	32,127
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.500	Funk PGP Generating Plant, Process Piping	631.00 LF	528.55 /LF	333,512
				40.11 Process Pipe, Carbon Steel	631.00 LF	528.55 /LF	333,512
				40.0 Process Pipe	631.00 LF	528.55 /LF	333,512
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			40.90.I&C	Instrumentation & Control	1.00 LS	84,040.05 /LS	84,040
				40.90 Instrumentation & Controls	1.00 LS	84,040.05 /LS	84,040
				40.9 Instrumentation	1.00 LS	84,040.05 /LS	84,040
	48.0			Electrical Power Generation			
		48.10		Electrical Power Generation			
			26.00.000	Hydropower Generators	2.00 EA	6,337,830.35 /EA	12,675,661
				48.10 Electrical Power Generation	2.00 EA	6,337,830.35 /EA	12,675,661
				48.0 Electrical Power Generation	2.00 EA	6,337,830.35 /EA	12,675,661
				2165 Funks PGP Generating Plant	**1.00 LS**	**25,458,341.97 /LS**	**25,458,342**
2170				**Funks PGP Chiller Yard**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.001	6" thick Slab on Grade	75.00 CY	1,204.30 /CY	90,323
				03.18 Cast-In-Place Concrete, Slabs on Grade	75.00 CY	1,204.30 /CY	90,323
		03.27		Cast-In-Place Concrete, Equipment Pads			
			MOA-03.15.002	6" thick Equipment Pad	27.00 CY	1,256.70 /CY	33,931
				03.27 Cast-In-Place Concrete, Equipment Pads	27.00 CY	1,256.70 /CY	33,931
				03.0 Concrete Work	102.00 CY	1,218.17 /CY	124,253
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.050	HVAC Chiller Equipment	1.00 LS	1,266,509.38 /LS	1,266,509
				23.00 HVAC	1.00 LS	1,266,509.38 /LS	1,266,509
				23.0 HVAC	1.00 LS	1,266,509.38 /LS	1,266,509
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	206,243.24 /LS	206,243
				26.20 Facility Electrical	1.00 LS	206,243.24 /LS	206,243
				26.0 Electrical Work	1.00 LS	206,243.24 /LS	206,243
				2170 Funks PGP Chiller Yard	**1.00 LS**	**1,597,006.10 /LS**	**1,597,006**
2171				**Funks PGP HVAC Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.002	8" thick Slab on Grade	41.00 CY	1,040.56 /CY	42,663
				03.18 Cast-In-Place Concrete, Slabs on Grade	41.00 CY	1,040.56 /CY	42,663
				03.0 Concrete Work	41.00 CY	1,040.56 /CY	42,663
	04.0			Masonry - Architectural			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	8,257.14 SF	38.71 /SF	319,665
				04.21 Concrete Unit Masonry - Exterior	8,257.14 SF	38.71 /SF	319,665
				04.0 Masonry - Architectural	8,257.14 SF	38.71 /SF	319,665
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	11.89 SQ	1,898.82 /SQ	22,577
			MOA-07.00.001	Metal Roof	841.00 SF	185.80 /SF	156,261
				07.00 Thermal & Moisture Protection	*1.00* LS	178,838.04 /LS	178,838
				07.0 Thermal and Moisture Protection	*1.00* LS	178,838.04 /LS	178,838
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	1,776.43 /EA	7,106
				08.10 Doors and Frames - Exterior Doors	4.00 EA	1,776.43 /EA	7,106
				08.0 Openings	4.00 EA	1,776.43 /EA	7,106
	09.0			Finishes			
		09.90		Painting and Coating			
			09.00.006	Building Paintings and Coatings	841.00 SF	14.34 /SF	12,057
				09.90 Painting and Coating	841.00 SF	14.34 /SF	12,057
				09.0 Finishes	*1.00* LS	12,056.57 /LS	12,057
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.600	Funk PGP HVAC Building, Fire Suppression	841.00 SF	22.63 /SF	19,036
				21.00 Fire Sprinkler	*1.00* LS	19,035.72 /LS	19,036
				21.0 Fire Suppression	*1.00* LS	19,035.72 /LS	19,036
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.040	HVAC Building, HVAC	841.00 SF	564.52 /SF	474,764
				23.00 HVAC	*1.00* LS	474,764.01 /LS	474,764
				23.0 HVAC	*1.00* LS	474,764.01 /LS	474,764
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	*1.00* LS	107,915.62 /LS	107,916
			26.25.LTG	Interior Lighting and Control	*1.00* LS	170,024.14 /LS	170,024
			26.26.EXTLTG	Exterior Lighting and Control	*1.00* LS	30,346.72 /LS	30,347
			26.30.DEV	Device Outlets	*1.00* LS	97,743.23 /LS	97,743
			26.40.EQCON	Facility Equipment Connections and Controls	*1.00* LS	18,402.39 /LS	18,402
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	50,147.35 /LS	50,147
				26.20 Facility Electrical	*1.00* LS	474,579.45 /LS	474,579
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	*1.00* LS	60,553.29 /LS	60,553
				26.25 Electrical Equipment	*1.00* LS	60,553.29 /LS	60,553
				26.0 Electrical Work	*1.00* LS	535,132.74 /LS	535,133
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.10.COMEQ	Communications Room Equipment	*1.00* LS	175,503.33 /LS	175,503
			27.31.COMCDT	Comm Conduit to MH/HH	*1.00* LS	69,623.33 /LS	69,623
				27.00 Telecommunications	*1.00* LS	245,126.66 /LS	245,127
				27.0 Telecommunications - Network	*1.00* LS	245,126.66 /LS	245,127
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	*1.00* LS	61,707.23 /LS	61,707
			28.20.CCTV	Closed Circuit TV and Cameras	*1.00* LS	61,368.92 /LS	61,369
				28.00 Electronic Safety and Security	*1.00* LS	123,076.15 /LS	123,076
				28.0 Electronic Safety and Security	*1.00* LS	123,076.15 /LS	123,076
				2171 Funks PGP HVAC Building	*1.00* LS	1,957,463.64 /LS	1,957,464
2175				**Funks PGP Emergency Dissipation Structure**			
	03.0			Concrete Work			
		03.11		Cast-In-Place Concrete, Grade Walls			
			MOA-03.05.003	60" thick, 7'-9" high Foundation Wall	222.00 CY	1,420.89 /CY	315,438
			MOA-03.05.005	60" thick, 9'-1" high Foundation Wall	305.00 CY	1,456.12 /CY	444,116
				03.11 Cast-In-Place Concrete, Grade Walls	527.00 CY	1,441.28 /CY	759,554
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.005	4'-0" thick Mat Slab on Grade	2,614.00 CY	1,060.31 /CY	2,771,643
			MOA-03.20.007	4'-0" thick Inclined Mat Slab on Grade	1,250.00 CY	1,104.26 /CY	1,380,330
				03.18 Cast-In-Place Concrete, Slabs on Grade	3,864.00 CY	1,074.53 /CY	4,151,973
		03.20		Cast-In-Place Concrete, Straight Walls			
			MOA-03.25.007	4'-0" thick CIP Exterior Wall - 28'-2" high - below grade	1,820.00 CY	1,438.53 /CY	2,618,125
			MOA-03.25.008	2'-0" thick CIP Interior Wall - 20'-0" high	223.00 CY	2,017.17 /CY	449,829
			MOA-03.25.009	3'-0" thick CIP Interior Wall - 28'-6" high	1,473.00 CY	1,674.12 /CY	2,465,983
			MOA-03.25.010	4'-0" thick CIP Interior Wall - 28'-6" high	700.00 CY	1,508.36 /CY	1,055,852
				03.20 Cast-In-Place Concrete, Straight Walls	4,216.00 CY	1,563.04 /CY	6,589,788
		03.23		Cast-In-Place Concrete, Columns			
			MOA-03.27.003	3'-6" x 4'-0" CIP Column; 20'-6" high	383.00 CY	3,140.88 /CY	1,202,956
				03.23 Cast-In-Place Concrete, Columns	383.00 CY	3,140.88 /CY	1,202,956
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.003	2'-0" thick CIP Upper Floor	882.00 CY	1,991.35 /CY	1,756,370
				03.24 Cast-In-Place Concrete, Elevated Slabs	882.00 CY	1,991.35 /CY	1,756,370

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				03.0 Concrete Work	9,872.00 CY	1,464.81 /CY	14,460,641
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	225.00 LF	189.38 /LF	42,611
			05.00.002	Ladders	135.00 LF	350.60 /LF	47,330
			05.00.004	Metal Grating	940.00 SF	174.77 /SF	164,282
			05.00.015	Metal Grating Platforms	164.00 SF	532.84 /SF	87,386
			05.00.200	SST Energy Dissipators	4.00 EA	978,235.76 /EA	3,912,943
				05.00 Metals	*1.00* LS	4,254,552.02 /LS	4,254,552
				05.0 Metals	*1.00* LS	4,254,552.02 /LS	4,254,552
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	251,516.66 /LS	251,517
				26.20 Facility Electrical	*1.00* LS	251,516.66 /LS	251,517
				26.0 Electrical Work	*1.00* LS	251,516.66 /LS	251,517
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.00.000	Structural Earthworks	76,840.00 CY	31.56 /CY	2,425,145
				31.25 Earthworks, Structural	76,840.00 CY	31.56 /CY	2,425,145
				31.0 Earthwork	*1.00* LS	2,425,145.49 /LS	2,425,145
	34.0			Transportation			
		34.00		Transportation			
			05.00.202	Vehicle Guard Rail	335.00 LF	48.62 /LF	16,287
				34.00 Transportation	*1.00* LS	16,287.14 /LS	16,287
				34.0 Transportation	*1.00* LS	16,287.14 /LS	16,287
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.200	Piping and Appurtenances	*1.00* LS	3,380,960.65 /LS	3,380,961
				40.11 Process Pipe, Carbon Steel	560.00 LF	6,037.43 /LF	3,380,961
				40.0 Process Pipe	560.00 LF	6,037.43 /LF	3,380,961
				2175 Funks PGP Emergency Dissipation Structure	***1.00*** **LS**	**24,789,102.69 /LS**	**24,789,103**
2180				**Funks PGP Fire Water Tank**			
	03.0			Concrete Work			
		03.13		Cast-In-Place Concrete, Continuous Footings			
			MOA-03.00.002	3'-0" wide, 30" thick Curved Continuous Footing	65.00 CY	1,397.30 /CY	90,824
				03.13 Cast-In-Place Concrete, Continuous Footings	65.00 CY	1,397.30 /CY	90,824
				03.0 Concrete Work	65.00 CY	1,397.30 /CY	90,824
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	45,273.41 /LS	45,273
				26.20 Facility Electrical	*1.00* LS	45,273.41 /LS	45,273
				26.0 Electrical Work	*1.00* LS	45,273.41 /LS	45,273
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.25.00.0010	Structural Earthworks	*1.00* LS	14,891.06 /LS	14,891
				31.25 Earthworks, Structural	181.00 CY	82.27 /CY	14,891
				31.0 Earthwork	*1.00* LS	14,891.06 /LS	14,891
	33.0			Utilities			
		33.90		Tanks			
			MOA-33.30.001	50" Dia Aboveground Tank	1.00 EA	1,131,731.90 /EA	1,131,732
				33.90 Tanks	1.00 EA	1,131,731.90 /EA	1,131,732
				33.0 Utilities	*1.00* LF	1,131,731.90 /LF	1,131,732
				2180 Funks PGP Fire Water Tank	***1.00*** **LS**	**1,282,720.77 /LS**	**1,282,721**
2181				**Funks PGP Fire Water Pumping Plant**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.008	12" thick Slab on Grade	9.00 CY	2,047.50 /CY	18,428
				03.18 Cast-In-Place Concrete, Slabs on Grade	9.00 CY	2,047.50 /CY	18,428
				03.0 Concrete Work	9.00 CY	2,047.50 /CY	18,428
	13.0			Buildings Complete			
		13.01		Buildings Complete			
			MOA-13.01.001	Preengineered Metal Building; 20' Eave Height	*1.00* LS	36,766.19 /LS	36,766
				13.01 Buildings Complete	168.00 SF	218.85 /SF	36,766
				13.0 Buildings Complete	*1.00* LS	36,766.19 /LS	36,766
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			44.40.320	Electric Fire Pump	1.00 EA	129,383.82 /EA	129,384
				21.00 Fire Sprinkler	*1.00* LS	129,383.82 /LS	129,384
				21.0 Fire Suppression	*1.00* LS	129,383.82 /LS	129,384
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	265,332.39 /LS	265,332
				26.20 Facility Electrical	*1.00* LS	265,332.39 /LS	265,332
				26.0 Electrical Work	*1.00* LS	265,332.39 /LS	265,332
				2181 Funks PGP Fire Water Pumping Plant	***1.00*** **LS**	**449,909.92 /LS**	**449,910**
2185				**Funks PGP Surge Control System**			
	03.0			Concrete Work			
		03.12		Cast-In-Place Concrete, Pad Footings			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			MOA-03.00.003	**17'-0" x 16'-0" x 2'-0" thick Spread Footing**	**323.00 CY**	**1,345.39 /CY**	**434,560**
				03.12 Cast-In-Place Concrete, Pad Footings	**323.00 CY**	**1,345.39 /CY**	**434,560**
		03.60		**Concrete Miscellaneous**			
			MOA-03.00.004	**14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports**	**63.00 CY**	**2,159.26 /CY**	**136,034**
				03.60 Concrete Miscellaneous	***1.00* LS**	**136,033.56 /LS**	**136,034**
				03.0 Concrete Work	**386.00 CY**	**1,478.22 /CY**	**570,593**
	26.0			**Electrical Work**			
		26.20		**Facility Electrical**			
			26.90.LPS	**Facility Lightning Protection System**	***1.00* LS**	**108,147.39 /LS**	**108,147**
				26.20 Facility Electrical	***1.00* LS**	**108,147.39 /LS**	**108,147**
				26.0 Electrical Work	***1.00* LS**	**108,147.39 /LS**	**108,147**
	43.0			**Process Equipment**			
		43.22		**Process Equipment - Expansion Tanks**			
			40.00.320	**Surge Tanks and Connections**	**8.00 EA**	**107,115.31 /EA**	**856,922**
				43.22 Process Equipment - Expansion Tanks	**8.00 EA**	**107,115.31 /EA**	**856,922**
				43.0 Process Equipment	***1.00* LS**	**856,922.45 /LS**	**856,922**
				2185 Funks PGP Surge Control System	***1.00* LS**	**1,535,663.29 /LS**	**1,535,663**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	74,551,521		506,625.100	
Material	91,787,448			
Subcontractor	13,814,787			
Equipment	9,768,144		148,946.193	
Other	23,879,535			
Subtotal w/ OFCI Equipment	**213,801,435**	**213,801,435**		
Contractor Contingency	6,414,043			3.000 %
Design Contingency	38,484,258			18.000 %
Opinion of Probable Construction Costs	**44,898,301**	**258,699,736**		

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Detail Report
Project Name: Funks PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
2000					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	99.75 /ea	9,975
					Miscellaneous Health & Safety Programs	1.00 ls			150,000	-	-	0	150,000.00 /ls	150,000	199,496.98 /ls	199,497
					Project Environmental Requirements	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	99,748.49 /ls	99,748
					01.01.05.00 General Conditions, Other	*24.00* MO			232,500				9,687.50 /MO	232,500	12,884.18 /MO	309,220
					01.I5.000 General Conditions, Other	*1.00* **LS**			**232,500**				**232,500.00 /LS**	**232,500**	**309,220.32 /LS**	**309,220**
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Executive	12.00 mo	1,920	374,400	-	-	-	-	31,200.00 /mo	374,400	39,233.37 /mo	470,800
					Project Manager	24.00 MO	3,840	599,040	-	-	-	-	24,960.00 /MO	599,040	31,386.70 /MO	753,281
					Superintendent	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	24,143.61 /mo	579,447
					Asst Superintendent (2)	48.00 mo	7,680	921,600	-	-	-	-	19,200.00 /mo	921,600	24,143.61 /mo	1,158,893
					Project Engineer	24.00 mo	3,840	441,600	-	-	-	-	18,400.00 /mo	441,600	23,137.63 /mo	555,303
					Field Engineer (2)	48.00 mo	7,680	729,600	-	-	-	-	15,200.00 /mo	729,600	19,113.69 /mo	917,457
					Admin Asst.	24.00 mo	3,840	249,600	-	-	-	-	10,400.00 /mo	249,600	13,077.79 /mo	313,867
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	30,179.52 /mo	362,154
					Site Skilled Labor (4)	96.00 mo	15,360	1,689,600	-	-	-	-	17,600.00 /mo	1,689,600	22,131.65 /mo	2,124,638
					01.01.06.01 GC Labor	24.00 MO	49,920	5,754,240					239,760.00 /MO	5,754,240	301,493.38 /MO	7,235,841
					01.I5.005 GC Labor	*1.00* **LS**	**49,920**	**5,754,240**					**5,754,240.00 /LS**	**5,754,240**	**7,235,841.04 /LS**	**7,235,841**
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,989.95 /ea	3,990
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.99 /mo	15,960
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,299.80 /ea	13,300
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.99 /mo	15,960
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,194.61 /mo	28,671
					Field Office Demob	2.00 ea	120	12,928	-		-	-	6,464.04 /ea	12,928	8,128.40 /ea	16,257
					Field Office Tear Down	2.00 ea	240	25,856	-		-	-	12,928.08 /ea	25,856	16,256.80 /ea	32,514
					Field Office Set-up	2.00 ea	360	38,784	-		21,600	-	30,192.12 /ea	60,384	37,965.99 /ea	75,932
					Field Office Mob	2.00 ea	120	12,928	-	0	-	-	6,464.04 /ea	12,928	8,128.41 /ea	16,257
					Conference Trailer Rent	24.00 MO		-	45,000	-	-	-	1,875.00 /MO	45,000	2,493.71 /MO	59,849
					Field Office Trailer Rent (60 x 12) (3)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,327.46 /mo	111,718
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,030.74 /ea	2,061
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	997.49 /mo	47,879
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,329.97 /ea	1,330
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	73,148.89 /ea	73,149
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,949.71 /ea	19,950
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	86,448.70 /ea	86,449
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	192.85 /mo	4,628
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,949.71 /ea	19,950
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,294.22 /mo	55,061
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	465.49 /mo	11,172
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,790.44 /mo	90,971
					01.01.06.00 Project Office	24.00 MO	840	90,497	476,230		44,400		25,463.61 /MO	611,127	33,458.58 /MO	803,006
					01.I5.010 Jobsite Office	*1.00* **LS**	**840**	**90,497**	**476,230**		**44,400**		**611,126.56 /LS**	**611,127**	**803,006.04 /LS**	**803,006**
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.97 /sy	71,736
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.97 /sy	4,484
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.97 /sy	8,967
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.78 /lf	23,645
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,931.13 /ea	11,862
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,877.04 /ea	9,754
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	5,053.92 /MO	121,294
					Guard Shack - Rent (2)	48.00 mo		-	57,600	-	-	-	1,200.00 /mo	57,600	1,595.98 /mo	76,607
					Site Security Services	24.00 mo		539,760	-		-	-	22,490.00 /mo	539,760	28,280.72 /mo	678,737
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	478.79 /ea	47,879
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS	517	598,819	214,200		13,584		826,602.69 /LS	826,603	1,054,965.74 /LS	1,054,966
					01.I5.011 Temporary Facilities	*1.00* **LS**	**517**	**598,819**	**214,200**		**13,584**		**826,602.69 /LS**	**826,603**	**1,054,965.74 /LS**	**1,054,966**
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	204,000	-	-	-	8,500.00 /MO	204,000	11,304.83 /MO	271,316
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,649.91 /ls	6,650
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	474.99 /mo	11,400
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,624.75 /ls	16,625
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,095.80 /mo	50,299
					Hand Washing Station (2)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	212.80 /mo	10,214
					Portable Toilets (2)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	498.74 /mo	23,940
					Janitorial Service (2)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	631.74 /mo	30,324
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS		40,000	278,551				318,551.45 /LS	318,551	420,767.02 /LS	420,767
					01.I5.012 Temporary Services	*1.00* **LS**		**40,000**	**278,551**				**318,551.45 /LS**	**318,551**	**420,767.02 /LS**	**420,767**
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	132.00 mo		-	428,670	-	-		3,247.50 /mo	428,670	4,319.11 /mo	570,122
					Construction Delivery - Air Fare (mgmt 1 flight per month)	132.00 ea		-	49,500	-	-	0	375.00 /ea	49,500	498.74 /ea	65,834
					Business travel - Air Fare	132.00 ea		-	72,600	-	-	0	550.00 /ea	72,600	731.49 /ea	96,557
					Business travel - Hotel	240.00 day		-	32,400	-	-	0	135.00 /day	32,400	179.55 /day	43,091
					Business travel - Rental Car	240.00 day		-	18,000	-	-	0	75.00 /day	18,000	99.75 /day	23,940
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	132.00 mo		-	594,000	-	-		4,500.00 /mo	594,000	5,984.91 /mo	790,008
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,984.91 /MO	143,638

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Detail Report
Project Name: Funks PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Personnel moving expense for 4 GC Management Staff	6.00 EA		-	33,000	-	-		5,500.00 /EA	33,000	7,314.89 /EA	43,889
					Personnel moving expense for 8 specialty workers	16.00 EA		-	80,000	-	-		5,000.00 /EA	80,000	6,649.90 /EA	106,398
					01.01.06.02 GC Temporary Facilities & Services	***1.00*** **LS**			**1,416,170**				**1,416,170.00 /LS**	**1,416,170**	**1,883,477.60 /LS**	**1,883,478**
					01.I5.013 Travel	***1.00*** **LS**			**1,416,170**				**1,416,170.00 /LS**	**1,416,170**	**1,883,477.60 /LS**	**1,883,478**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	1,040	93,879	-	-	-	-	902.68 /wk	93,879	1,135.10 /wk	118,051
					Jobiste Daily Cleaning up	104.00 wk	2,080	187,757	16,640	-	-	-	1,965.36 /wk	204,397	2,483.00 /wk	258,232
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,595.98 /MO	38,303
					Dumpster Pulls	104.00 ea		-	80,600	-	-	-	775.00 /ea	80,600	1,030.73 /ea	107,196
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,408.65 /ls	38,409
					01.01.06.02 GC Temporary Facilities & Services	***1.00*** **LS**	**3,720**	**309,536**	**128,540**				**438,076.16 /LS**	**438,076**	**560,191.13 /LS**	**560,191**
					01.I5.014 Site Cleanup	***1.00*** **LS**	**3,720**	**309,536**	**128,540**				**438,076.16 /LS**	**438,076**	**560,191.13 /LS**	**560,191**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,498.98 /ls	66,499
					Site Safety Training - non productive time	24.00 MO	10,920	985,727		-	-	-	41,071.94 /MO	985,727	51,647.14 /MO	1,239,531
					First Aid Consumables	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.99 /mo	15,960
					01.01.06.02 GC Temporary Facilities & Services	***1.00*** **LS**	**10,920**	**985,727**	**62,000**				**1,047,726.56 /LS**	**1,047,727**	**1,321,990.05 /LS**	**1,321,990**
					01.I5.014A Site Safety	***1.00*** **LS**	**10,920**	**985,727**	**62,000**				**1,047,726.56 /LS**	**1,047,727**	**1,321,990.05 /LS**	**1,321,990**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (7.5)	180.00 mo		-	-	-	146,160	-	812.00 /mo	146,160	1,021.07 /mo	183,793
					Yard Pickup Truck (4)	96.00 mo		-		-	77,952	-	812.00 /mo	77,952	1,021.07 /mo	98,023
					Water Truck	24.00 mo		-	15,000	-	60,000	-	3,125.00 /mo	75,000	3,974.94 /mo	95,398
					Site Storage Connex boxes	5.00 ea		-	3,750	-	-	-	750.00 /ea	3,750	997.49 /ea	4,987
					Small Tools (~0.5% Labor)	1.00 ls		-	260,000	-	-	-	260,000.00 /ls	260,000	345,794.77 /ls	345,795
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	332.49 /MO	7,980
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	133.00 /mo	3,192
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,644.87 /ea	8,645
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**			**293,650**		**284,112**		**577,762.00 /LS**	**577,762**	**747,813.72 /LS**	**747,814**
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**293,650**		**284,112**		**577,762.00 /LS**	**577,762**	**747,813.72 /LS**	**747,814**
			01.I5.016		**Material Handling**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					150 tn Crawler, with Operator	24.00 MO	4,160	541,746	559,920	-	476,280	-	65,747.77 /MO	1,577,946	84,367.92 /MO	2,024,830
					Crane setup and removal	4.00 ea	180	23,441	6,000		35,622	-	16,265.63 /ea	65,063	20,562.44 /ea	82,250
					Crane Pads and Removal (5 m x 5 m)	4.00 ea	240	31,254	26,826		15,832	-	18,478.00 /ea	73,912	23,721.94 /ea	94,888
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,201,967.55 /LS**	**2,201,968**
					01.I5.016 Material Handling	***1.00*** **LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,201,967.55 /LS**	**2,201,968**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,651.35 /ea	16,651
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	365.74 /ea	7,315
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	465.49 /MO	11,172
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	33,249.50 /ea	33,250
					Miscellaneous third party testing and inspections	1.00 ls		250,000	-	0	-	-	250,000.00 /ls	250,000	314,369.97 /ls	314,370
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,539.16 /day	192,394
					01.01.06.04 GC Indirect Services & Support	**24.00 MO**	**1,000**	**345,000**	**51,420**		**58,000**		**18,934.17 /MO**	**454,420**	**23,964.67 /MO**	**575,152**
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**345,000**	**51,420**		**58,000**		**454,420.00 /LS**	**454,420**	**575,151.96 /LS**	**575,152**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	25,065.28 /MO	601,567
					Quality Mgr. (3)	24.00 mo	4,160	665,587	-	-	-	-	27,732.80 /mo	665,587	34,873.44 /mo	836,963
					01-01-06-01 GC Labor	**24.00 MO**	**8,320**	**1,143,978**					**47,665.75 /MO**	**1,143,978**	**59,938.72 /MO**	**1,438,529**
					01.I6.000 Quality Control	***1.00*** **LS**	**8,320**	**1,143,978**					**1,143,978.00 /LS**	**1,143,978**	**1,438,529.33 /LS**	**1,438,529**
					01.01 Construction Operations	***24.00*** **MO**	**79,817**	**9,864,237**	**3,746,007**		**927,830**		**605,753.10 /MO**	**14,538,074**	**773,038.40 /MO**	**18,552,922**
					01.0 General Requirements	***24.00*** **MO**	**79,817**	**9,864,237**	**3,746,007**		**927,830**		**605,753.10 /MO**	**14,538,074**	**773,038.40 /MO**	**18,552,922**
					2000 General Conditions	***1.00*** **LS**	**79,817**	**9,864,237**	**3,746,007**		**927,830**		**14,538,074.30 /LS**	**14,538,074**	**18,552,921.50 /LS**	**18,552,922**
2110					**Sitework**											
	26.0				**Electrical Work**											
		26.10			**Site Electrical**											
			26.02.ADM		**Primary to Admin Building from SWGR Building**											
				26.10.02.00	Site Electrical, Buried Conduit											
					Electrical Trench, Backfill, Subcontract	650.00 ft	33	3,415		19,500	-	-	35.25 /ft	22,915	45.91 /ft	29,840
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.00 ton	12	1,387	1,500	-	-	-	2,886.69 /ton	2,887	4,604.72 /ton	4,605
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	1,300.00 LF	65	6,781	4,108	-	-	-	8.38 /LF	10,889	13.27 /LF	17,257
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	7	742	184	-	-	-	115.73 /ea	926	181.91 /ea	1,455
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	5	477	79	-	-	-	69.51 /ea	556	108.98 /ea	872
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	260.00 ea	51	5,292	463	-	-	-	22.13 /ea	5,755	34.60 /ea	8,997
					Electrcl undrgrnd ducts and manholes,hand holes,precast concrete,with concrete cover,4'x4'x4'deep,excludes excavation,backfill and cast place concrete	2.00 ea	29	3,195	3,550	-	281	-	3,513.03 /ea	7,026	5,600.17 /ea	11,200
					26.10.02.00 Site Electrical, Buried Conduit	**1,300.00 LF**	**200**	**21,289**	**9,884**	**19,500**	**281**		**39.20 /LF**	**50,954**	**57.10 /LF**	**74,226**
				26.15.01.00	Process Electrical, Wire/Cable											
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 350 kcmil, in conduit, excl splicing & terminations	21.00 clf	129	13,481	20,685	-	-	-	1,626.95 /clf	34,166	2,605.36 /clf	54,712

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.01.00 Process Electrical, Wire/Cable	**21.00 clf**	**129**	**13,481**	**20,685**				**1,626.95 /clf**	**34,166**	**2,605.36 /clf**	**54,712**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.92 /ea	1,824
					Ground wire, copper wire, bare stranded, 4/0	1.00 clf	3	293	420	-	-	-	712.82 /clf	713	1,140.67 /clf	1,141
					26.15.11.00 Process Electrical, Grounding	**1.00 clf**	**12**	**1,238**	**636**				**1,873.58 /clf**	**1,874**	**2,964.18 /clf**	**2,964**
					26.02.ADM Primary to Admin Building from SWGR Building	***1.00*** **LS**	**341**	**36,007**	**31,205**	**19,500**	**281**		**86,993.24 /LS**	**86,993**	**131,902.58 /LS**	**131,903**
			26.02.FO		**Fiber Network**											
				26.00.99.00	**Electrical, Other**											
					Direct Burial, Armored, Loose Buffer Tube, Multi Mode-24 Fiber	2,500.00 lf	28	2,890	7,000	-	-	-	3.96 /lf	9,890	6.36 /lf	15,911
					Innerduct / Cable Chase - Indoor - Non-Plenum Rated - 1.50" ID	2,500.00 lf	125	13,136	3,550	-	-	-	6.67 /lf	16,686	10.50 /lf	26,246
					Fiber Optic Anaerobic Connector, Multi Mode, ST Type - Epoxy & Polish	288.00 E	89	9,383	1,310	-	-	-	37.13 /E	10,693	58.16 /E	16,749
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**242**	**25,409**	**11,860**				**37,269.30 /LS**	**37,269**	**58,906.05 /LS**	**58,906**
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Electrical Trench, Encase, Backfill, Subcontract	1,100.00 LF	55	5,780		33,000	-	-	35.25 /LF	38,780	45.91 /LF	50,499
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.30 ton	39	4,576	4,950	-	-	-	2,886.69 /ton	9,526	4,604.72 /ton	15,196
					26.10.02.00 Site Electrical, Buried Conduit	**1,100.00 LF**	**94**	**10,356**	**4,950**	**33,000**			**43.91 /LF**	**48,306**	**59.72 /LF**	**65,695**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	2,400.00 LF	120	12,518	7,584	-	-	-	8.38 /LF	20,102	13.27 /LF	31,858
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	24.00 ea	21	2,225	552	-	-	-	115.73 /ea	2,777	181.91 /ea	4,366
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	48.00 ea	27	2,861	475	-	-	-	69.51 /ea	3,336	108.98 /ea	5,231
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	440.00 ea	86	8,956	783	-	-	-	22.13 /ea	9,739	34.60 /ea	15,225
					26.10.03.00 Site Electrical, Duct Bank	**2,400.00 LF**	**255**	**26,561**	**9,394**				**14.98 /LF**	**35,955**	**23.62 /LF**	**56,681**
				26.10.04.00	**Site Electrical, Manholes/Handholes**											
					Elctrc undrgr ducts and manhls,man holes,precast w/iron racks&pulling irons,ci frame and cover,6'10"7",excluds excavtn,backfll and cast place concrete	8.00 EA	249	25,049	34,200	-	10,306	-	8,694.31 /EA	69,554	13,851.14 /EA	110,809
					26.10.04.00 Site Electrical, Manholes/Handholes	**8.00 EA**	**249**	**25,049**	**34,200**		**10,306**		**8,694.31 /EA**	**69,554**	**13,851.14 /EA**	**110,809**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	8.00 ea	12	1,260	288	-	-	-	193.46 /ea	1,548	303.92 /ea	2,431
					Ground wire, copper wire, bare stranded, 4/0	11.00 clf	31	3,221	4,620	-	-	-	712.82 /clf	7,841	1,140.65 /clf	12,547
					26.15.11.00 Process Electrical, Grounding	**11.00 clf**	**43**	**4,481**	**4,908**				**853.52 /clf**	**9,389**	**1,361.69 /clf**	**14,979**
					26.02.FO Fiber Network	**3,500.00 LF**	**882**	**91,855**	**65,313**	**33,000**	**10,306**		**57.28 /LF**	**200,474**	**87.73 /LF**	**307,069**
			26.02.LV		**LV UG Conduits**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Electrical Trench, Backfill, Subcontract	40.00 ft	2	210		1,200	-	-	35.25 /ft	1,410	45.91 /ft	1,836
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.90 ton	23	2,635	2,850	-	-	-	2,886.69 /ton	5,485	4,604.71 /ton	8,749
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	200.00 LF	10	1,043	632	-	-	-	8.38 /LF	1,675	13.27 /LF	2,655
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	7	742	184	-	-	-	115.73 /ea	926	181.91 /ea	1,455
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	5	477	79	-	-	-	69.51 /ea	556	108.98 /ea	872
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	40.00 ea	8	814	71	-	-	-	22.13 /ea	885	34.60 /ea	1,384
					26.10.02.00 Site Electrical, Buried Conduit	**200.00 LF**	**54**	**5,921**	**3,816**	**1,200**			**54.69 /LF**	**10,937**	**84.76 /LF**	**16,951**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Electrcl undrgrnd ducts and manholes,hand holes,precast concrete,with concrete cover,4'x4'x4'deep,excludes excavation,backfill and cast place concrete	1.00 ea	14	1,597	1,775	-	141	-	3,513.03 /ea	3,513	5,600.17 /ea	5,600
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	80.00 LF	8	835	298	-	-	-	14.15 /LF	1,132	22.31 /LF	1,785
					26.10.03.00 Site Electrical, Duct Bank	**80.00 LF**	**22**	**2,432**	**2,073**		**141**		**58.06 /LF**	**4,645**	**92.31 /LF**	**7,385**
					26.02.LV LV UG Conduits	***1.00*** **LS**	**76**	**8,353**	**5,889**	**1,200**	**141**		**15,582.50 /LS**	**15,583**	**24,336.38 /LS**	**24,336**
			26.02.OFFSITE		**Primary to MH for OH MV by others (Dam/Inlet-Outlet)5**											
				26.10.03.00	**Site Electrical, Duct Bank**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	59	6,933	7,500	-	-	-	2,886.69 /ton	14,433	4,604.71 /ton	23,024
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	600.00 LF	30	3,130	1,896	-	-	-	8.38 /LF	5,026	13.27 /LF	7,965
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	28	2,967	736	-	-	-	115.73 /ea	3,703	181.91 /ea	5,821
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	18	1,908	317	-	-	-	69.51 /ea	2,224	108.98 /ea	3,487
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	120.00 ea	23	2,443	214	-	-	-	22.13 /ea	2,656	34.60 /ea	4,152
					26.10.03.00 Site Electrical, Duct Bank	**600.00 LF**	**159**	**17,380**	**10,662**				**46.74 /LF**	**28,043**	**74.08 /LF**	**44,449**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 4/0, in conduit, excl splicing & terminations	78.00 clf	390	40,684	51,480	-	-	-	1,181.59 /clf	92,164	1,888.14 /clf	147,275
					26.15.01.00 Process Electrical, Wire/Cable	**78.00 clf**	**390**	**40,684**	**51,480**				**1,181.59 /clf**	**92,164**	**1,888.14 /clf**	**147,275**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.92 /ea	1,824
					Ground wire, copper wire, bare stranded, 4/0	5.00 clf	14	1,464	2,100	-	-	-	712.82 /clf	3,564	1,140.65 /clf	5,703
					26.15.11.00 Process Electrical, Grounding	**5.00 clf**	**23**	**2,409**	**2,316**				**944.97 /clf**	**4,725**	**1,505.36 /clf**	**7,527**
					26.02.OFFSITE Primary to MH for OH MV by others (Dam/Inlet-Outlet)5	***1.00*** **LS**	**572**	**60,473**	**64,458**				**124,931.15 /LS**	**124,931**	**199,250.99 /LS**	**199,251**
			26.20.DB		**Site Ductbanks**											
				26.00.99.00	**Electrical, Other**											
					In addition to those itemized, lump sum allowance	1.00 ls	1,000	82,570	120,000		-	-	202,570.00 /ls	202,570	324,198.69 /ls	324,199

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.00.99.00 Electrical, Other	*1.00* LS	1,000	82,570	120,000				202,570.00 /LS	202,570	324,198.69 /LS	324,199
					26.20.DB Site Ductbanks	*1.00* **LS**	**1,000**	**82,570**	**120,000**				**202,570.00 /LS**	**202,570**	**324,198.69 /LS**	**324,199**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Site lighting, pole, base, circuit, controls, per each (qty assumed)	25.00 ea		-	-	125,000	-	-	5,000.00 /ea	125,000	6,287.40 /ea	157,185
					26.00.99.00 Electrical, Other	*1.00* LS				125,000			125,000.00 /LS	125,000	157,184.98 /LS	157,185
					26.26.EXTLTG Exterior Lighting and Control	*1.00* **LS**				**125,000**			**125,000.00 /LS**	**125,000**	**157,184.98 /LS**	**157,185**
			28.20.AC		**Access Control System**											
				26.00.99.00	Electrical, Other											
					Gate Operator, with card reader, power and control circuit, per each	2.00 ea		-	-	20,000	-	-	10,000.00 /ea	20,000	12,574.80 /ea	25,150
					26.00.99.00 Electrical, Other	*1.00* LS				20,000			20,000.00 /LS	20,000	25,149.60 /LS	25,150
					28.20.AC Access Control System	*1.00* **LS**				**20,000**			**20,000.00 /LS**	**20,000**	**25,149.60 /LS**	**25,150**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				26.00.99.00	Electrical, Other											
					Cameras, installed on site ltg poles, assumed qty, per each	10.00 ea		-	-	75,000	-	-	7,500.00 /ea	75,000	9,431.10 /ea	94,311
					26.00.99.00 Electrical, Other	*1.00* LS				75,000			75,000.00 /LS	75,000	94,311.00 /LS	94,311
					28.20.CCTV Closed Circuit TV and Cameras	*1.00* **LS**				**75,000**			**75,000.00 /LS**	**75,000**	**94,311.00 /LS**	**94,311**
					26.10 Site Electrical	*1.00* LS	2,873	279,258	286,865	273,700	10,727		850,550.57 /LS	850,551	1,263,403.12 /LS	1,263,403
					26.0 Electrical Work	*1.00* LS	2,873	279,258	286,865	273,700	10,727		850,550.57 /LS	850,551	1,263,403.12 /LS	1,263,403
	31.0				Earthwork											
		31.25			Earthworks, Structural											
			31.25.00.0010		**Structural Earthworks**											
				31.16.01.00	Earthworks, Sheeting and Shoring											
					Sheet Pile Wall	27,450.00 SF				1,235,250			45.00 /SF	1,235,250	56.59 /SF	1,553,302
					31.16.01.00 Earthworks, Sheeting and Shoring	27,450.00 SF				1,235,250			45.00 /SF	1,235,250	56.59 /SF	1,553,302
				31.25.01.00	Earthworks, Structural, Excavation											
					Structural Excavation, excludes sheeting or dewatering	135,000.00 CY	4,500	497,750	-	-	483,005	-	7.26 /CY	980,755	9.14 /CY	1,233,279
					Stockpile Excavated Spoils	135,000.00 cy	2,025	230,217	33,750	-	204,209	-	3.47 /cy	468,176	4.38 /cy	591,169
					31.25.01.00 Earthworks, Structural, Excavation	135,000.00 CY	6,525	727,966	33,750		687,214		10.73 /CY	1,448,931	13.51 /CY	1,824,448
				31.25.02.00	Earthworks, Structural, Import Aggregates (Slab)											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	2,100.00 CY	458	44,455	73,500	-	2,799	-	57.50 /CY	120,754	74.84 /CY	157,174
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	2,100.00 CY	458	44,455	73,500		2,799		57.50 /CY	120,754	74.84 /CY	157,174
				31.25.03.00	Earthworks, Structural, Backfill											
					Backfill, Native material	86,710.00 CY	6,503	739,335		-	163,953	-	10.42 /CY	903,289	13.10 /CY	1,135,867
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	69,370.00 cy	694	78,865	-	-	45,134	-	1.79 /cy	123,999	2.25 /cy	155,926
					Compaction, 4 passes, 13" to 18", 8" lifts, rammer tamper	17,340.00 cy	356	32,367	-	-	3,991	-	2.10 /cy	36,357	2.64 /cy	45,719
					Compaction, water for, 6000 gallon wagon, 6 mile haul	86,710.00 cy	434	43,001	104,052	-	28,143	-	2.02 /cy	175,197	2.63 /cy	227,850
					31.25.03.00 Earthworks, Structural, Backfill	86,710.00 CY	7,986	893,568	104,052		241,222		14.29 /CY	1,238,841	18.05 /CY	1,565,362
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	48,290.00 CY	4,953	491,221	-	-	451,295	-	19.52 /CY	942,516	24.54 /CY	1,185,195
					Load excavated spoils	48,290.00 cy	604	68,625		-	60,872	-	2.68 /cy	129,496	3.37 /cy	162,839
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	48,290.00 CY	5,556	559,845			512,167		22.20 /CY	1,072,012	27.92 /CY	1,348,034
					31.25.00.0010 Structural Earthworks	*1.00* **LS**	**20,526**	**2,225,834**	**211,302**	**1,235,250**	**1,443,402**		**5,115,788.20 /LS**	**5,115,788**	**6,448,320.14 /LS**	**6,448,320**
					31.25 Earthworks, Structural	272,100.00 CY	20,526	2,225,834	211,302	1,235,250	1,443,402		18.80 /CY	5,115,788	23.70 /CY	6,448,320
					31.0 Earthwork	*1.00* LS	20,526	2,225,834	211,302	1,235,250	1,443,402		5,115,788.20 /LS	5,115,788	6,448,320.14 /LS	6,448,320
	32.0				Exterior Improvements											
		32.12			Paving											
			MOA-32.12.001		**Ashphalt Paving**											
				32.40.00.00	Site Improvements, Asphalt Paving											
					Aggregate base course for Asphalt Paving, bank run gravel, spread and compacted, 9" deep	13,229.78 sy	86	10,067	174,633	-	7,857	-	14.55 /sy	192,557	19.26 /sy	254,798
					Asphalt paving, binder course, 2" thick	13,229.78 sy	183	18,461	102,531	-	6,628	-	9.65 /sy	127,619	12.69 /sy	167,912
					Asphalt paving, wearing course, 4" thick	13,229.78 SY	307	31,489	226,891	-	11,393	-	20.39 /SY	269,773	26.89 /SY	355,684
					32.40.00.00 Site Improvements, Asphalt Paving	13,229.78 SY	577	60,017	504,055		25,878		44.59 /SY	589,949	58.84 /SY	778,393
				32.40.02.00	Site Improvements, Paving, Bituminous Asphalt											
					Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	1.00 ea	0	47	37	-	8	-	91.56 /ea	92	117.82 /ea	118
					Signs, stock signs, reflectorized, 18" x 24", excludes posts	1.00 ea	0	47	33	-	8	-	87.06 /ea	87	111.83 /ea	112
					Signs, stock signs, reflectorized, 24" x 24", excludes posts	1.00 ea	0	47	39	-	8	-	93.06 /ea	93	119.82 /ea	120
					Signs, 10'-0", add to above for steel posts, galvanized, upright, bolted	6.00 ea	1	98	327	-	17	-	73.60 /ea	442	96.50 /ea	579
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	13,172.78 SY	105	11,383	-	-	7,331	-	1.42 /SY	18,714	1.79 /SY	23,532
					Fog seal, seal coating, coal tar pitch emulsion, 2 coat, over 10,000 S.Y.	13,172.78 sy	42	4,726	13,436	-	2,454	-	1.57 /sy	20,616	2.04 /sy	26,898
					Fog seal, sealcoating, prepare and clean surface for sealcoating	13,172.78 sy	37	3,462	-	-	569	-	0.31 /sy	4,032	0.38 /sy	5,070
					Base course drainage layers, aggregate base course for roadways and large paved areas, stone base, compacted, 3/4" stone base, to 6" deep	2,061.67 sy	16	1,877	15,463	-	1,737	-	9.25 /sy	19,076	12.18 /sy	25,109
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,8"deep	11,111.11 SY	158	17,303	146,667	-	12,251	-	15.86 /SY	176,220	20.90 /SY	232,227
					Base course drainage layers, for roadways and large paved areas, stabilization fabric, polypropylene, 6 oz./S.Y.	11,111.11 sy	27	2,716	34,222	-	314	-	3.35 /sy	37,252	4.44 /sy	49,325
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	13,172.78 sy	90	10,269	-	-	6,222	-	1.25 /sy	16,491	1.57 /sy	20,738
					Bituminous-stabilized base courses, for roadways and large paved areas, liquid application to gravel base, asphalt emulsion	2,222.22 gal	6	664	15,444	-	345	-	7.40 /gal	16,454	9.81 /gal	21,810
					Bituminous-stabilized base courses, for roadways and large paved areas, prime and seal,cut back asphalt to gravel base, asphalt emulsion	309.25 gal	1	92	2,536	-	48	-	8.65 /gal	2,676	11.48 /gal	3,549
					Plant-mix asphalt paving, for highways and large paved areas, binder course, 3" thick, no hauling included	11,111.11 sy	199	20,056	129,444	-	7,200	-	14.10 /sy	156,701	18.58 /sy	206,433
					Plant-mix asphalt paving, for highways and large paved areas, wearing course, 2" thick, no hauling included	11,111.11 sy	168	17,256	96,667	-	6,243	-	10.81 /sy	120,166	14.23 /sy	158,114
					Asphaltic concrete, parking lots & driveways, binder course, 2" thick, no asphalt hauling included	18,555.00 sf	36	3,668	15,586	-	2,068	-	1.15 /sf	21,322	1.51 /sf	27,942
					Asphaltic concrete, parking lots & driveways, sand finish course, 3/4" thick, no asphalt hauling included	18,555.00 sf	22	2,236	6,865	-	1,261	-	0.56 /sf	10,362	0.73 /sf	13,528
					Cast-in place concrete curbs & gutters, concrete, wood forms, straight, 6" x 18", excludes concrete	6.00 lf	1	61	30	-	-	-	15.28 /lf	92	19.58 /lf	117

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				32.40.02.00	Site Improvements, Paving, Bituminous Asphalt											
					Cast-in place concrete curbs & gutters, concrete, wood forms, radius, 6" x 18", excludes concrete	90.00 lf	22	2,302	486	-	-	-	30.98 /lf	2,788	39.34 /lf	3,541
					Parking barriers, wheel stops, precast conc w/dowels, 6" x 10" x 6'-0"	6.00 ea	2	183	288	-	-	-	78.58 /ea	471	102.29 /ea	614
					Pipe bollards, steel, concrete filled/painted, 8' L x 4' D hole, 6" di	6.00 ea	7	733	2,940	-	85	-	626.35 /ea	3,758	823.14 /ea	4,939
					Painted pavement markings, thermoplastic, white or yellow, 4" wide, less than 6000 L.F.	1,560.00 lf	4	388	1,498	-	166	-	1.32 /lf	2,052	1.72 /lf	2,688
					Painted pavement markings, thermoplastic, white or yellow, 6" wide, less than 6000 L.F.	1,250.00 lf	4	333	1,800	-	143	-	1.82 /lf	2,276	2.39 /lf	2,992
					Painted pavement markings, thermoplastic, white or yellow, arrows	120.00 sf	7	678	347	-	290	-	10.96 /sf	1,315	13.99 /sf	1,679
					Painted pavement markings, thermoplastic, white or yellow, letters	240.00 sf	15	1,357	230	-	580	-	9.03 /sf	2,168	11.43 /sf	2,742
					Pavement markings, parking stall, paint, white, 4" wide	6.00 stll	0	26	38	-	7	-	11.71 /stll	70	15.18 /stll	91
					32.40.02.00 Site Improvements, Paving, Bituminous Asphalt	**24,283.89 SY**	**971**	**102,007**	**484,422**		**49,356**		**26.18 /SY**	**635,785**	**34.37 /SY**	**834,607**
				32.40.05.00	Site Improvements, Curbs and Gutters											
					CIP concrete, curb and gutter, 30" wide	401.00 LF	41	3,979	4,975	-	1,331	-	25.65 /LF	10,285	33.15 /LF	13,294
					32.40.05.00 Site Improvements, Curbs and Gutters	**401.00 LF**	**41**	**3,979**	**4,975**		**1,331**		**25.65 /LF**	**10,285**	**33.15 /LF**	**13,294**
				32.40.11.00	Site Improvements, Other Paving											
					Mowing, mowing brush, light density, tractor with rotary mower	576,159.83 MSF	2,123	265,471	-	-	64,667	-	0.57 /MSF	330,137	0.72 /MSF	415,141
					32.40.11.00 Site Improvements, Other Paving	**576,159.83 MSF**	**2,123**	**265,471**			**64,667**		**0.57 /MSF**	**330,137**	**0.72 /MSF**	**415,141**
					MOA-32.12.001 Ashphalt Paving	**37,513.67 SY**	**3,712**	**431,474**	**993,452**		**141,230**		**41.75 /SY**	**1,566,157**	**54.42 /SY**	**2,041,436**
					32.12 Paving	**37,513.67 SY**	**3,712**	**431,474**	**993,452**		**141,230**		**41.75 /SY**	**1,566,157**	**54.42 /SY**	**2,041,436**
		32.31			Fencing											
			MOA-32.10.001		Security Fencing											
				32.45.02.00	Fencing, Steel Gates & Steel Fence											
					Substation Fence, 3231-411 steel, 2" posts, 6' high	2,865.00 LF	2,636	246,718	519,286	-	103,434	-	303.47 /LF	869,438	394.75 /LF	1,130,949
					Substation Pedestrian Gate, wide = 4-ft, high = 6-ft, single	3.00 ea	90	8,266	14,006	-	-	-	7,424.00 /ea	22,272	9,674.01 /ea	29,022
					Substation Vehicular Gate, wide = 8-ft, high = 6-ft, double	5.00 ea	316	29,142	49,381	-	-	-	15,704.64 /ea	78,523	20,464.30 /ea	102,321
					Vehicular Gate, wide = 8-ft, high = 6-ft, double	2.00 ea	126	11,657	19,753	-	-	-	15,704.63 /ea	31,409	20,464.28 /ea	40,929
					32.45.02.00 Fencing, Steel Gates & Steel Fence	**2,865.00 LF**	**3,168**	**295,782**	**602,426**		**103,434**		**349.61 /LF**	**1,001,642**	**454.88 /LF**	**1,303,221**
				32.45.03.00	Fencing, Security											
					Fence Survey	1.00 ls	33		-	15,000	-	-	15,000.00 /ls	15,000	18,862.19 /ls	18,862
					Security Fence, Chain Link, 8'	4,749.00 LF	617		-	118,725	-	-	25.00 /LF	118,725	31.44 /LF	149,294
					Swing Gate, 8'	8.00 ea	120		-	24,000	-	-	3,000.00 /ea	24,000	3,772.44 /ea	30,180
					Pedestrian Gate, 4'	2.00 ea	8		-	3,000	-	-	1,500.00 /ea	3,000	1,886.22 /ea	3,772
					Fence Security Signage	10.00 ea	10		-	1,500	-	-	150.00 /ea	1,500	188.62 /ea	1,886
					32.45.03.00 Fencing, Security	**4,749.00 LF**	**788**			**162,225**			**34.16 /LF**	**162,225**	**42.96 /LF**	**203,995**
					MOA-32.10.001 Security Fencing	**7,614.00 LF**	**3,957**	**295,782**	**602,426**	**162,225**	**103,434**		**152.86 /LF**	**1,163,867**	**197.95 /LF**	**1,507,216**
					32.31 Fencing	**7,614.00 LF**	**3,957**	**295,782**	**602,426**	**162,225**	**103,434**		**152.86 /LF**	**1,163,867**	**197.95 /LF**	**1,507,216**
		32.50			Site, Improvements											
			MOA-32.15.001		Retaining Walls 1-4											
				03.60.10.00	Concrete Miscellaneous Items											
					4" Temp. shotcrete facing with mesh, 4x4 W4.0xW4.0	11,309.00 sf	724	70,448	55,301	-	16,330	-	12.56 /sf	142,079	16.15 /sf	182,670
					03.60.10.00 Concrete Miscellaneous Items	***1.00* LS**	**724**	**70,448**	**55,301**		**16,330**		**142,078.62 /LS**	**142,079**	**182,670.33 /LS**	**182,670**
				31.20.07.15	Earthworks, Sitework, Borrow											
					Granular fill	4,021.00 tons	457	51,990	211,042	-	14,160	-	68.94 /tons	277,192	90.49 /tons	363,864
					31.20.07.15 Earthworks, Sitework, Borrow	**4,021.00 tons**	**457**	**51,990**	**211,042**		**14,160**		**68.94 /tons**	**277,192**	**90.49 /tons**	**363,864**
				31.30.06.00	Site Specialties, Rock Anchors/Tie-Backs											
					Self-Drilling rock bolts, assumed 20' long, for 2" diam. anchor bar, A1-A2/37 of 176, incl. bearing plates	338.00 EA	16,255	1,743,540	766,395	-	678,248	-	9,432.49 /EA	3,188,183	12,025.56 /EA	4,064,640
					Allow - Welded wire wall anchors, L = 4.8-ft/ea	677.00 ea	4,912	526,899	277,926	-	204,967	-	1,491.57 /ea	1,009,792	1,905.38 /ea	1,289,943
					Self-Drilling rock bolts, assumed 20' long, for 2" diam. anchor bar, A1-A2/37 of 176, incl. bearing plates	62.00 EA	2,982	319,821	140,581	-	124,412	-	9,432.50 /EA	584,815	12,025.56 /EA	745,585
					Allow - Welded wire wall anchors, L = 4.8-ft/ea	123.00 ea	892	95,729	50,495	-	37,239	-	1,491.57 /ea	183,463	1,905.38 /ea	234,362
					Self-Drilling rock bolts, assumed 20' long, for 2" diam. anchor bar, A1-A2/37 of 176, incl. bearing plates	123.00 EA	5,915	634,483	278,895	-	246,818	-	9,432.50 /EA	1,160,197	12,025.56 /EA	1,479,144
					Allow - Welded wire wall anchors, L = 4.8-ft/ea	246.00 ea	1,785	191,458	100,989	-	74,478	-	1,491.57 /ea	366,926	1,905.38 /ea	468,724
					Self-Drilling rock bolts, assumed 20' long, for 2" diam. anchor bar, A1-A2/37 of 176, incl. bearing plates	75.00 EA	3,607	386,880	170,058	-	150,499	-	9,432.50 /EA	707,437	12,025.56 /EA	901,917
					Allow - Welded wire wall anchors, L = 4.8-ft/ea	150.00 ea	1,088	116,743	61,579	-	45,414	-	1,491.57 /ea	223,735	1,905.38 /ea	285,807
					31.30.06.00 Site Specialties, Rock Anchors/Tie-Backs	**598.00 EA**	**37,437**	**4,015,553**	**1,846,920**		**1,562,076**		**12,415.63 /EA**	**7,424,549**	**15,836.33 /EA**	**9,470,123**
				32.45.05.00	Guardrail											
					Metal beam guardrail w/handrail	747.00 LF	657	61,451	56,964	-	13,864	-	177.08 /LF	132,279	228.20 /LF	170,468
					32.45.05.00 Guardrail	**747.00 LF**	**657**	**61,451**	**56,964**		**13,864**		**177.08 /LF**	**132,279**	**228.20 /LF**	**170,468**
				32.50.01.00	Site Improvements, Retaining Walls											
					Big Block Retaining Wall	48,620.00 SF	3,890		-	4,862,000	-	-	100.00 /SF	4,862,000	125.75 /SF	6,113,867
					12" CIP Reinf concrete wall facing includes excavation, backfill, formwork, reinforcing	22,619.00 sf	12,531	1,170,614	525,892	-	152,368	-	81.74 /sf	1,848,874	104.47 /sf	2,363,049
					32.50.01.00 Site Improvements, Retaining Walls	**48,620.00 SF**	**16,421**	**1,170,614**	**525,892**	**4,862,000**	**152,368**		**138.03 /SF**	**6,710,874**	**174.35 /SF**	**8,476,916**
					MOA-32.15.001 Retaining Walls 1-4	**48,620.00 SF**	**55,695**	**5,370,056**	**2,696,119**	**4,862,000**	**1,758,798**		**302.08 /SF**	**14,686,973**	**383.88 /SF**	**18,664,041**
					32.50 Site, Improvements	***1.00* LS**	**55,695**	**5,370,056**	**2,696,119**	**4,862,000**	**1,758,798**		**14,686,972.65 /LS**	**14,686,973**	**18,664,041.23 /LS**	**18,664,041**
					32.0 Exterior Improvements	**48,620.00 SF**	**63,363**	**6,097,312**	**4,291,997**	**5,024,225**	**2,003,462**		**358.23 /SF**	**17,416,996**	**456.86 /SF**	**22,212,692**
	33.0				Utilities											
		33.02			Buried Process Pipe, Ductile Iron											
			MOA-33.25.008		Fire Protection Yard Piping											
				33.00.04.06	Buried Pipe, Ductile Iron, 6"											
					6" pipe, DI, RJ, excav/bkfill included, 350#	140.00 LF	96	11,474	3,315	-	4,576	-	138.32 /LF	19,365	175.65 /LF	24,592
					6" DIP Fitttings Allowance	1.00 ls		2,000	3,000	-	1,000	-	6,000.00 /ls	6,000	7,762.38 /ls	7,762
					33.00.04.06 Buried Pipe, Ductile Iron, 6"	**140.00 LF**	**96**	**13,474**	**6,315**		**5,576**		**181.18 /LF**	**25,365**	**231.10 /LF**	**32,354**
				33.00.04.10	Buried Pipe, Ductile Iron, 10"											
					10" pipe, DI, RJ, excav/bkfill included, 350#	905.00 LF	434	51,921	35,738	-	20,705	-	119.74 /LF	108,365	153.43 /LF	138,857
					10" DIP Fitting Allowance	1.00 ls		6,000	8,000	-	2,000	-	16,000.00 /ls	16,000	20,699.68 /ls	20,700
					Water Utility Distribution Fire Hydrants, two way, 6'-0" depth, 5-1/4" valve, includes mechanical joints, excludes excavation and backfill	2.00 ea	56	5,473	20,000	-	394	-	12,933.16 /ea	25,866	16,988.19 /ea	33,976
					Miscellaneous Items and Consumables Allowance	1.00 ls		9,000	11,000	-	2,000	-	22,000.00 /ls	22,000	28,462.06 /ls	28,462

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					33.00.04.10 Buried Pipe, Ductile Iron, 10"	**905.00 LF**	**490**	**72,394**	**74,738**		**25,099**		**190.31 /LF**	**172,231**	**245.30 /LF**	**221,996**
					MOA-33.25.008 Fire Protection Yard Piping	**1,045.00 LF**	**586**	**85,868**	**81,054**		**30,674**		**189.09 /LF**	**197,596**	**243.40 /LF**	**254,350**
					33.02 Buried Process Pipe, Ductile Iron	**1,045.00 LF**	**586**	**85,868**	**81,054**		**30,674**		**189.09 /LF**	**197,596**	**243.40 /LF**	**254,350**
		33.03			**Buried Process Pipe, Carbon Steel**											
			MOA-33.25.001		**144" Dia WSP Yard Piping**											
				33.00.05.144	**Buried Pipe, Carbon Steel, 144"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	14,909.22 cy	373	41,228	-	-	40,007	-	5.45 /cy	81,235	6.85 /cy	102,151
					Ripping till, boulder clay/hardpan, medium hard, adverse conditions, 300 H.P., dozer with single shank ripper	59,636.90 cy	1,420	161,436	-	-	160,693	-	5.40 /cy	322,129	6.79 /cy	405,071
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	59,636.90 CY	2,485	286,541	-	-	481,275	-	12.87 /CY	767,816	16.19 /CY	965,513
					Trench Stabilization, Geotextile Wrapped	3,676.94 cy	245	27,868	147,077	-	9,270	-	50.10 /cy	184,215	65.90 /cy	242,310
					Pipe bedding and zone, CLSM	20,518.74 cy	1,368	130,977	1,538,906	-	12,846	-	82.01 /cy	1,682,728	108.56 /cy	2,227,567
					Backfill native material	39,314.33 cy	2,949	335,215		-	74,337	-	10.42 /cy	409,551	13.10 /cy	515,002
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	35,229.14 cy	3,613	358,362	-	-	329,235	-	19.52 /cy	687,596	24.54 /cy	864,639
					Load excavated spoils	35,229.14 cy	330	37,548		-	33,306	-	2.01 /cy	70,854	2.53 /cy	89,097
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	39,314.33 cy	393	44,695	-	-	25,579	-	1.79 /cy	70,274	2.25 /cy	88,368
					Compaction, water for, 6000 gallon wagon, 6 mile haul	39,314.33 cy	197	19,497	47,177	-	12,760	-	2.02 /cy	79,434	2.63 /cy	103,307
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	2,651.00 LF	12,371	1,288,870	5,394,785	-	263,255	-	2,620.49 /LF	6,946,910	3,442.75 /LF	9,126,722
					Dewatering Allowance	42.59 msf				127,770			3,000.00 /msf	127,770	3,772.44 /msf	160,668
					Erosion and Dust Controls Allowance	1.00 ls		0	0	150,000	0	0	150,000.00 /ls	150,000	188,621.97 /ls	188,622
					144" Fitting, Elbows	4.00 ea	448	46,673	224,000	-	19,066	-	72,434.95 /ea	289,740	95,145.49 /ea	380,582
					144" Fitting, TEE	2.00 ea	224	23,337	104,000	-	9,533	-	68,434.94 /ea	136,870	89,825.56 /ea	179,651
					144" Fitting, Wye	2.00 ea	224	23,337	120,000	-	9,533	-	76,434.94 /ea	152,870	100,465.40 /ea	200,931
					144" Fitting, Reducer	2.00 ea	112	11,668	24,000	-	4,767	-	20,217.47 /ea	40,435	26,293.06 /ea	52,586
					33.00.05.144 Buried Pipe, Carbon Steel, 144"	**2,651.00 LF**	**26,752**	**2,837,251**	**7,599,945**	**277,770**	**1,485,461**		**4,602.20 /LF**	**12,200,428**	**5,995.02 /LF**	**15,892,788**
					MOA-33.25.001 144" Dia WSP Yard Piping	**2,651.00 LF**	**26,752**	**2,837,251**	**7,599,945**	**277,770**	**1,485,461**		**4,602.20 /LF**	**12,200,428**	**5,995.02 /LF**	**15,892,788**
			MOA-33.25.004		**126" Dia WSP Yard Piping**											
				33.00.05.126	**Buried Pipe, Carbon Steel, 126"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	3,014.46 cy	75	8,336	-	-	8,089	-	5.45 /cy	16,425	6.85 /cy	20,654
					Trench Stabilization, Geotextile Wrapped	185.86 cy	12	1,409	7,434	-	469	-	50.10 /cy	9,312	65.90 /cy	12,248
					Pipe bedding and zone, CLSM	1,037.16 cy	69	6,620	77,787	-	649	-	82.01 /cy	85,057	108.56 /cy	112,597
					Backfill native material	1,987.22 cy	149	16,944		-	3,757	-	10.42 /cy	20,702	13.10 /cy	26,032
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	1,780.73 cy	183	18,114	-	-	16,642	-	19.52 /cy	34,756	24.54 /cy	43,705
					Load excavated spoils	1,780.73 cy	17	1,898		-	1,684	-	2.01 /cy	3,581	2.53 /cy	4,504
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	1,987.22 cy	20	2,259	-	-	1,293	-	1.79 /cy	3,552	2.25 /cy	4,467
					Compaction, water for, 6000 gallon wagon, 6 mile haul	1,987.22 cy	10	986	2,385	-	645	-	2.02 /cy	4,015	2.63 /cy	5,222
					Piping, WSP 0.625" Wt Polyurethane Lined and Coated, 126" diameter	134.00 LF	625	65,148	219,760	-	13,307	-	2,225.49 /LF	298,215	2,917.40 /LF	390,932
					Piping, WSP 126" diameter fittings	1.00 ls	168	17,503	75,000	-	7,150	-	99,652.42 /ls	99,652	130,748.42 /ls	130,748
					Dewatering Allowance	2.15 msf				6,450			3,000.00 /msf	6,450	3,772.43 /msf	8,111
					33.00.05.126 Buried Pipe, Carbon Steel, 126"	**134.00 LF**	**1,328**	**139,217**	**382,366**	**6,450**	**53,684**		**4,341.17 /LF**	**581,717**	**5,665.81 /LF**	**759,219**
					MOA-33.25.004 126" Dia WSP Yard Piping	**134.00 LF**	**1,328**	**139,217**	**382,366**	**6,450**	**53,684**		**4,341.17 /LF**	**581,717**	**5,665.81 /LF**	**759,219**
			MOA-33.25.006		**102" Dia WSP Yard Piping**											
				33.00.05.102	**Buried Pipe, Carbon Steel, 102"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	2,362.08 cy	59	6,532	-	-	6,338	-	5.45 /cy	12,870	6.85 /cy	16,184
					Trench Stabilization, Geotextile Wrapped	145.64 cy	10	1,104	5,825	-	367	-	50.10 /cy	7,296	65.90 /cy	9,597
					Pipe bedding and zone, CLSM	812.70 cy	54	5,188	60,953	-	509	-	82.01 /cy	66,649	108.56 /cy	88,229
					Backfill native material	1,557.15 cy	117	13,277		-	2,944	-	10.42 /cy	16,221	13.10 /cy	20,398
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	1,395.35 cy	143	14,194	-	-	13,040	-	19.52 /cy	27,234	24.54 /cy	34,246
					Load excavated spoils	1,395.35 cy	13	1,487		-	1,319	-	2.01 /cy	2,806	2.53 /cy	3,529
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	1,557.15 cy	16	1,770	-	-	1,013	-	1.79 /cy	2,783	2.25 /cy	3,500
					Compaction, water for, 6000 gallon wagon, 6 mile haul	1,557.15 cy	8	772	1,869	-	505	-	2.02 /cy	3,146	2.63 /cy	4,092
					Piping, WSP Polyurethane Lined and Coated, 102" diameter	105.00 LF	490	51,049	153,300	-	10,427	-	2,045.49 /LF	214,776	2,678.01 /LF	281,191
					Piping, WSP 102" diameter fittings	1.00 ls	168	17,503	65,000	-	7,150	-	89,652.42 /ls	89,652	117,448.61 /ls	117,449
					Dewatering Allowance	1.69 msf				5,070			3,000.00 /msf	5,070	3,772.44 /msf	6,375
					33.00.05.102 Buried Pipe, Carbon Steel, 102"	**105.00 LF**	**1,077**	**112,876**	**286,946**	**5,070**	**43,613**		**4,271.48 /LF**	**448,505**	**5,569.43 /LF**	**584,790**
					MOA-33.25.006 102" Dia WSP Yard Piping	**105.00 LF**	**1,077**	**112,876**	**286,946**	**5,070**	**43,613**		**4,271.48 /LF**	**448,505**	**5,569.43 /LF**	**584,790**
					33.03 Buried Process Pipe, Carbon Steel	**2,890.00 LF**	**29,157**	**3,089,343**	**8,269,258**	**289,290**	**1,582,759**		**4,578.08 /LF**	**13,230,650**	**5,964.29 /LF**	**17,236,797**
					33.0 Utilities	**3,935.00 LF**	**29,744**	**3,175,211**	**8,350,311**	**289,290**	**1,613,433**		**3,412.51 /LF**	**13,428,246**	**4,445.02 /LF**	**17,491,147**
					2110 Sitework	***1.00*** **LS**	**116,506**	**11,777,616**	**13,140,475**	**6,822,465**	**5,071,025**		**36,811,581.11 /LS**	**36,811,581**	**47,415,562.26 /LS**	**47,415,562**
2145					**Funks PGP Administration and Operations Building**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.001		**6" thick Slab on Grade**											
				03.10.05.06	**Cast-In-Place Concrete, Slabs on Grade, 6" thick**											
					Fine grade, for slab on grade, by hand	3,696.00 sf	26	2,339	111	-	-	-	0.66 /sf	2,449	0.97 /sf	3,578
					Fill, gravel subbase, under building slab on grade	205.33 cy	103	9,280	5,749	-	-	-	73.19 /cy	15,029	108.71 /cy	22,322
					Concrete pumping, subcontract, all inclusive price	68.44 CY		-	-	1,711	-	-	25.00 /CY	1,711	36.44 /CY	2,494
					Slab on grade edge forms, up to 6"	285.00 lf	15	1,636	74	-	-	-	6.00 /lf	1,711	8.77 /lf	2,499
					Reinforcing in place, A615 Gr 60, priced per lbs.	8,555.56 lb		-	6,417	3,422	-	-	1.15 /lb	9,839	1.73 /lb	14,805
					Concrete, ready mix, 4500 psi	68.44 cy		-	15,058	-	-	-	220.00 /cy	15,058	336.60 /cy	23,038
					Add for concrete waste, 4500 psi	3.42 cy		-	753	-	-	-	220.00 /cy	753	336.60 /cy	1,152
					4'-4" top width slab mid-rib thickening, 4500 psi, 18" deep x 2'-8" wide bottom, reinforced	51.00 lf	15	1,609	3,927	-	30	-	109.13 /lf	5,566	164.64 /lf	8,397
					5'-8" top width thickened slab edge, 4,500 psi, 18" deep x 2'-8" wide bottom, reinforced	271.00 lf	123	12,827	31,301	-	235	-	163.70 /lf	44,362	246.96 /lf	66,927
					Placing concrete, concrete pump	68.44 cy	100	9,019	-	-	-	-	131.77 /cy	9,019	192.05 /cy	13,145
					Finishing floors, monolithic, trowel finish (machine)	3,696.00 sf	74	6,752	74	-	-	-	1.85 /sf	6,826	2.69 /sf	9,954
					Curing, membrane spray	3,696.00 sf	7	668	148	-	-	-	0.22 /sf	816	0.32 /sf	1,200
					Polyethelene vapor barrier, 10 mil thick	36.96 sq	8	876	392	-	-	-	34.30 /sq	1,268	50.76 /sq	1,876

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.05.06 Cast-In-Place Concrete, Slabs on Grade, 6" thick	**68.44 CY**	**471**	**45,006**	**64,003**	**5,133**	**265**		**1,671.53 /CY**	**114,406**	**2,504.02 /CY**	**171,385**
					MOA-03.20.001 6" thick Slab on Grade	**68.44 CY**	**471**	**45,006**	**64,003**	**5,133**	**265**		**1,671.53 /CY**	**114,406**	**2,504.02 /CY**	**171,385**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**68.44 CY**	**471**	**45,006**	**64,003**	**5,133**	**265**		**1,671.53 /CY**	**114,406**	**2,504.02 /CY**	**171,385**
					03.0 Concrete Work	**68.44 CY**	**471**	**45,006**	**64,003**	**5,133**	**265**		**1,671.53 /CY**	**114,406**	**2,504.02 /CY**	**171,385**
	04.0				**Masonry - Architectural**											
		04.21			**Concrete Unit Masonry - Exterior**											
			MOA-04.21.001		**8" thick Exterior CMU Wall**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Precast window sill, concrete, 4" tapers to 3", 9" wide	90.00 lf	21	2,084	522	-	-	-	28.96 /lf	2,606	41.17 /lf	3,706
					Grout, door frames, 3' x 7' opening, 2.5 C.F. per opening	3.00 opng	2	170	44	-	8	-	74.19 /opng	223	105.49 /opng	316
					Grout, door frames, 6' x 7' opening, 3.5 C.F. per opening	1.00 opng	1	76	21	-	4	-	99.75 /opng	100	141.88 /opng	142
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	725.94 cf	66	7,062	4,283	-	335	-	16.09 /cf	11,680	23.07 /cf	16,750
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	987.28 lb	18	1,811	395	-	-	-	2.23 /lb	2,205	3.17 /lb	3,133
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	725.94 lb	17	1,711	515	-	-	-	3.07 /lb	2,227	4.37 /lb	3,172
					Masonry reinforcing bars, truss type steel joint reinforcing, mill standard galvanized, 12" wide	24.99 clf	10	1,031	612	-	-	-	65.76 /clf	1,643	94.33 /clf	2,357
					Allow - shoring and bracing at CMU walls (percentage wall area)	871.13 sfwa	10	1,085	157	-	-	-	1.43 /sfwa	1,242	2.02 /sfwa	1,759
					Control joint, PVC, cross-shaped for CMU units	150.00 lf	4	442	368	-	-	-	5.40 /lf	810	7.77 /lf	1,166
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	2,903.76 SF	750	76,224	32,612	-	-	-	37.48 /SF	108,835	53.57 /SF	155,548
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	90.00 lf	24	3,006	284	-	150	-	38.22 /lf	3,440	54.02 /lf	4,862
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	20.00 lf	9	1,093	157	-	55	-	65.23 /lf	1,305	92.39 /lf	1,848
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.20 mbf	6	684	235	-	-	-	4,593.00 /mbf	919	6,549.75 /mbf	1,310
					Silicone water repellants, sprayed on CMU, 2 coat	5,807.52 sf	15	1,597	7,201	-	-	-	1.52 /sf	8,799	2.22 /sf	12,906
					Reglet, zinc and copper alloy, 20 ounce	150.00 lf	5	581	431	-	-	-	6.74 /lf	1,012	9.70 /lf	1,455
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	150.00 lf	8	975	788	-	-	-	11.75 /lf	1,762	16.92 /lf	2,538
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	150.00 lf	4	450	104	-	-	-	3.69 /lf	554	5.24 /lf	787
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**2,903.76 SF**	**970**	**100,082**	**48,727**		**552**		**51.44 /SF**	**149,360**	**73.61 /SF**	**213,754**
					MOA-04.21.001 8" thick Exterior CMU Wall	**2,903.76 SF**	**970**	**100,082**	**48,727**		**552**		**51.44 /SF**	**149,360**	**73.61 /SF**	**213,754**
					04.21 Concrete Unit Masonry - Exterior	**2,903.76 SF**	**970**	**100,082**	**48,727**		**552**		**51.44 /SF**	**149,360**	**73.61 /SF**	**213,754**
					04.0 Masonry - Architectural	**2,903.76 SF**	**970**	**100,082**	**48,727**		**552**		**51.44 /SF**	**149,360**	**73.61 /SF**	**213,754**
	05.0				**Metals**											
		05.10			**Structural Steel**											
			MOA-05.10.001		**Steel Roof Joist**											
				05.20.01.00	**Metals, Steel Joists**											
					Open web joists, K series, to 30' span, average cost	0.50 TN		-	-	6,750	-	-	13,500.00 /TN	6,750	16,975.98 /TN	8,488
					Roof truss,using galv metal studs,fink (w) king post type,4:12 pitch,18 x 4"chrds,32'span,excl erectn,bridgng&bracing,fabrication only trusses on-site	20.00 ea	159	17,365	28,092	-	-	-	2,272.87 /ea	45,457	3,300.86 /ea	66,017
					05.20.01.00 Metals, Steel Joists	**0.50 TN**	**159**	**17,365**	**28,092**	**6,750**			**104,414.88 /TN**	**52,207**	**149,010.22 /TN**	**74,505**
					MOA-05.10.001 Steel Roof Joist	**0.50 TN**	**159**	**17,365**	**28,092**	**6,750**			**104,414.88 /TN**	**52,207**	**149,010.22 /TN**	**74,505**
					05.10 Structural Steel	***1.00* LS**	**159**	**17,365**	**28,092**	**6,750**			**52,207.44 /LS**	**52,207**	**74,505.11 /LS**	**74,505**
					05.0 Metals	***1.00* LS**	**159**	**17,365**	**28,092**	**6,750**			**52,207.44 /LS**	**52,207**	**74,505.11 /LS**	**74,505**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Blanket insulation, for walls or ceilings, kraft faced fiberglass, 9" thick, R30, 23" wide	4,379.00 sf	26	2,827	4,379	-	-	-	1.65 /sf	7,206	2.39 /sf	10,460
					Steel roofing panels, on steel frame, flat profile, standard finish, 1-3/4" standing seams, 12" wide, 24 gauge	4,379.00 SF	148	15,699	30,872	-	-	-	10.64 /SF	46,571	15.48 /SF	67,786
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	63.00 lf	3	424	294	-	-	-	11.38 /lf	717	16.36 /lf	1,031
					Gutters, alum, 5" x 6" comb fascia & gutter, .032" thick, enameled	232.00 lf	31	3,770	817	-	-	-	19.77 /lf	4,586	28.08 /lf	6,514
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**4,379.00 SF**	**208**	**22,719**	**36,361**				**13.49 /SF**	**59,080**	**19.59 /SF**	**85,790**
					MOA-07.00.001 Metal Roof	**4,379.00 SF**	**208**	**22,719**	**36,361**				**13.49 /SF**	**59,080**	**19.59 /SF**	**85,790**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**208**	**22,719**	**36,361**				**59,080.23 /LS**	**59,080**	**85,790.42 /LS**	**85,790**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**208**	**22,719**	**36,361**				**59,080.23 /LS**	**59,080**	**85,790.42 /LS**	**85,790**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	3.00 EA	8	872	111	-	-	-	327.56 /EA	983	463.73 /EA	1,391
					Weatherstripping, doors, metal frame, spring type, brz, 6' x 7' door	1.00 EA	3	349	47	-	-	-	395.63 /EA	396	560.23 /EA	560
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	3.00 ea	24	2,976	3,600	-	-	-	2,192.14 /ea	6,576	3,172.40 /ea	9,517
					Doors & Frames, steel, entrance, narrow stile, clear finish, 6'-0" x 7'-0" opening, incl. standard hardware, excl. glass	1.00 ea	12	1,526	2,250	-	-	-	3,776.38 /ea	3,776	5,478.31 /ea	5,478
					Doors, hollow metal, commercial, steel, flush, full panel, hollow core, 1-3/8" thick, 20 ga., 3'-0" x 7'-0"	2.00 ea	2	205	1,556	-	-	-	880.54 /ea	1,761	1,295.75 /ea	2,592
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	3.00 ea	3	291	4,410	-	-	-	1,566.84 /ea	4,701	2,311.88 /ea	6,936
					08.10.01.10 Doors and Frames, Hollow Metal	**4.00 EA**	**52**	**6,219**	**11,974**				**4,548.19 /EA**	**18,193**	**6,618.51 /EA**	**26,474**
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**52**	**6,219**	**11,974**				**4,548.19 /EA**	**18,193**	**6,618.51 /EA**	**26,474**
			MOA-08.50.001		**Exterior Windows**											
				08.50.01.10	**Windows, Metal**											
					Aluminum punched window, 1" insulating glass, fixed, standard colors	278.00 SF	139	17,279	52,248	-	-	-	250.10 /SF	69,528	365.64 /SF	101,647
					08.50.01.10 Windows, Metal	**278.00 SF**	**139**	**17,279**	**52,248**				**250.10 /SF**	**69,528**	**365.64 /SF**	**101,647**
					MOA-08.50.001 Exterior Windows	**278.00 SF**	**139**	**17,279**	**52,248**				**250.10 /SF**	**69,528**	**365.64 /SF**	**101,647**
					08.10 Doors and Frames - Exterior Doors	**4.00 EA**	**191**	**23,498**	**64,222**				**21,930.08 /EA**	**87,720**	**32,030.17 /EA**	**128,121**
		08.15			**Doors and Frames - Interior Doors**											
			MOA-08.15.001		**Interior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Steel frms, knock down, 14 ga., to 8-3/4" throat, to 3'-0" x 7'-0", single	16.00 ea	17	1,859	10,400	-	-	-	766.21 /ea	12,259	1,125.55 /ea	18,009
					Doors, steel, interior, 7'-0" x 3'-0" wide	16.00 EA	40	4,358	28,800	-	-	-	2,072.37 /EA	33,158	3,047.32 /EA	48,757

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					08.10.01.10 Doors and Frames, Hollow Metal	**16.00 EA**	**57**	**6,217**	**39,200**				**2,838.58 /EA**	**45,417**	**4,172.87 /EA**	**66,766**
					MOA-08.15.001 Interior Doors	**16.00 EA**	**57**	**6,217**	**39,200**				**2,838.58 /EA**	**45,417**	**4,172.87 /EA**	**66,766**
					08.15 Doors and Frames - Interior Doors	**16.00 EA**	**57**	**6,217**	**39,200**				**2,838.58 /EA**	**45,417**	**4,172.87 /EA**	**66,766**
					08.0 Openings	**20.00 EA**	**248**	**29,715**	**103,422**				**6,656.88 /EA**	**133,138**	**9,744.33 /EA**	**194,887**
	09.0				**Finishes**											
		09.20			**Plaster and Gypsum Board**											
			09.00.000		**Metal Stud Walls**											
				09.00.99.01	**Finishes, Metal Stud Walls Includes Gypsum Board**											
					3-5/8" Metal studs, galv, 20 ga., 16" oc, non load bearing, >10' ht.	7,289.00 sf	189	20,623	3,645	-	-	-	3.33 /sf	24,268	4.72 /sf	34,421
					Framing, 2x6 fire treated blocking/backing in metal stud partitions	0.03 mbf	8	872	47	-	-	-	30,603.00 /mbf	918	43,185.33 /mbf	1,296
					Studs, drive pins & studs, 1/4" & 3/8" diameter	1.30 c		-	7	-	-	-	5.40 /c	7	7.99 /c	10
					Gypsum wallboard, on walls, fire resistant, taped & finished (level 4 finish), 5/8" thick	11,270.00 SF	160	17,432	5,297	-	-	-	2.02 /SF	22,729	2.87 /SF	32,374
					Stock and scrap - gypsum board, walls	16.00 mh	16	1,456	-	-	-	-	91.00 /mh	1,456	128.08 /mh	2,049
					09.00.99.01 Finishes, Metal Stud Walls Includes Gypsum Board	**11,270.00 SF**	**373**	**40,383**	**8,995**				**4.38 /SF**	**49,378**	**6.22 /SF**	**70,150**
					09.00.000 Metal Stud Walls	**11,270.00 SF**	**373**	**40,383**	**8,995**				**4.38 /SF**	**49,378**	**6.22 /SF**	**70,150**
					09.20 Plaster and Gypsum Board	**11,270.00 SF**	**373**	**40,383**	**8,995**				**4.38 /SF**	**49,378**	**6.22 /SF**	**70,150**
		09.50			**Ceilings**											
			09.00.002		**Building Ceilings**											
				09.50.01.10	**Finishes, Acoustical Panel Ceilings**											
					Blanket insulation, for walls or ceilings, kraft faced mineral fiber, 6" thick, R19	2,942.00 sf	15	1,603	6,796	-	-	-	2.85 /sf	8,399	4.19 /sf	12,314
					Suspended Acoustic Ceiling Tiles, mineral Fiber Tile, lay-in, fine texture, 2' x 2' or 2' x 4', 5/8" thick	2,942.00 sf	38	4,103	7,296	-	-	-	3.87 /sf	11,399	5.63 /sf	16,573
					Acoustic ceiling grid, 2' x 2'	2,942.00 SF	36	3,945	4,913	-	-	-	3.01 /SF	8,858	4.36 /SF	12,824
					Hanging wire, 4' long, 12 gauge	29.42 csf	4	394	33	-	-	-	14.53 /csf	427	20.53 /csf	604
					Seismic bracing, 2-1/2" compression post with 4 bracing wires	20.00 ea	3	349	58	-	-	-	20.31 /ea	406	28.80 /ea	576
					09.50.01.10 Finishes, Acoustical Panel Ceilings	**2,942.00 SF**	**95**	**10,393**	**19,096**				**10.02 /SF**	**29,489**	**14.58 /SF**	**42,890**
				09.50.01.11	**Finishes, Gypsum Board Ceilings**											
					Blanket insulation, for walls or ceilings, kraft faced mineral fiber, 6" thick, R19	174.00 sf	1	95	402	-	-	-	2.85 /sf	497	4.19 /sf	728
					Ceilings, gypsum board, fire rated, finished, screwed to grid, channel or joists, over 8' high, 5/8" thick	174.00 sf	5	493	63	-	-	-	3.19 /sf	556	4.52 /sf	787
					Ceiling/soffit framing to 6" 18 ga. stud, 24" oc., flat	174.00 SF	11	1,213	233	-	-	-	8.31 /SF	1,446	11.80 /SF	2,053
					Studs, drive pins & studs, 1/4" & 3/8" diameter	0.15 c		-	1	-	-	-	5.40 /c	1	8.07 /c	1
					Stock and scrap - gypsum board ceilings	4.00 mh	4	364	-	-	-	-	91.00 /mh	364	128.07 /mh	512
					09.50.01.11 Finishes, Gypsum Board Ceilings	**174.00 SF**	**21**	**2,165**	**699**				**16.46 /SF**	**2,864**	**23.46 /SF**	**4,081**
					09.00.002 Building Ceilings	**3,116.00 SF**	**116**	**12,559**	**19,794**				**10.38 /SF**	**32,353**	**15.07 /SF**	**46,971**
					09.50 Ceilings	**3,116.00 SF**	**116**	**12,559**	**19,794**				**10.38 /SF**	**32,353**	**15.07 /SF**	**46,971**
		09.60			**Flooring**											
			09.00.004		**Building Flooring**											
				09.60.01.00	**Finishes, Flooring, Tile**											
					Ceramic tile, sanitary cove base, mud set, 6" x 4-1/4" h	74.00 lf	16	1,565	485	-	-	-	27.70 /lf	2,050	39.47 /lf	2,921
					Ceramic tile, for floors, specialty type, decorator finish, 4-1/4" x 4-1/4"x 1/2"	163.00 SF	16	1,565	970	-	-	-	15.55 /SF	2,535	22.32 /SF	3,639
					For floor/deck tile in portland cement mortar in lieu of thinset, add	163.00 sf	9	880	-	-	-	-	5.40 /sf	880	7.60 /sf	1,238
					09.60.01.00 Finishes, Flooring, Tile	**163.00 SF**	**41**	**4,011**	**1,455**				**33.53 /SF**	**5,465**	**47.84 /SF**	**7,798**
				09.60.01.20	**Finishes, Resilient Flooring**											
					Cove base, rubber or vinyl, standard colors, 4" h, 0.080" thick	140.00 ea	8	797	470	-	-	-	9.05 /ea	1,267	12.98 /ea	1,818
					Resilient Flooring, rubber, special tile, plain colors, 3/16" thick	396.00 SF	16	1,594	1,085	-	-	-	6.76 /SF	2,679	9.72 /SF	3,849
					09.60.01.20 Finishes, Resilient Flooring	**396.00 SF**	**24**	**2,391**	**1,555**				**9.97 /SF**	**3,946**	**14.31 /SF**	**5,667**
				09.60.01.50	**Finishes, Carpeting**											
					Moldings, base, oak, 3 piece, 4-1/2" x 9/16" thick	1,200.00 lf	44	4,754	3,264	-	-	-	6.68 /lf	8,018	9.60 /lf	11,522
					Carpet Tile, tufted nylon, hard back, 26 oz, 18" x 18"	280.11 SY	80	7,969	2,941	-	-	-	38.95 /SY	10,910	55.58 /SY	15,569
					09.60.01.50 Finishes, Carpeting	**280.11 SY**	**124**	**12,723**	**6,205**				**67.58 /SY**	**18,929**	**96.72 /SY**	**27,091**
					09.00.004 Building Flooring	**559.00 SF**	**189**	**19,125**	**9,215**				**50.70 /SF**	**28,340**	**72.55 /SF**	**40,556**
					09.60 Flooring	**559.00 SF**	**189**	**19,125**	**9,215**				**50.70 /SF**	**28,340**	**72.55 /SF**	**40,556**
		09.90			**Painting and Coating**											
			09.00.006		**Building Paintings and Coatings**											
				09.90.01.00	**Finishes, Architectural Painting**											
					Paints & coatings, miscellaneous interior, trim, wood, paint 3 coats, oil base, brushwork, under 6" wide	1,200.00 lf	30	2,685	600	-	-	-	2.74 /lf	3,285	3.89 /lf	4,667
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	3,000.00 sf	20	1,818	750	-	-	-	0.86 /sf	2,568	1.22 /sf	3,669
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	3,000.00 sf	40	3,636	1,500	-	-	-	1.71 /sf	5,136	2.45 /sf	7,337
					Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 2 coats, smooth finish, spray	11,444.00 SF	56	5,121	5,722	-	-	-	0.95 /SF	10,843	1.37 /SF	15,676
					09.90.01.00 Finishes, Architectural Painting	**11,444.00 SF**	**146**	**13,259**	**8,572**				**1.91 /SF**	**21,831**	**2.74 /SF**	**31,348**
					09.00.006 Building Paintings and Coatings	**11,444.00 SF**	**146**	**13,259**	**8,572**				**1.91 /SF**	**21,831**	**2.74 /SF**	**31,348**
					09.90 Painting and Coating	**11,444.00 SF**	**146**	**13,259**	**8,572**				**1.91 /SF**	**21,831**	**2.74 /SF**	**31,348**
					09.0 Finishes	***1.00* LS**	**824**	**85,325**	**46,577**				**131,901.53 /LS**	**131,902**	**189,025.55 /LS**	**189,026**
	10.0				**Specialties**											
		10.00			**Specialties**											
			MOA-10.00.001		**Toilet Specialties**											
				10.00.07.00	**Specialties Toilet & Bath Accessories**											
					Toilet Accessories, grab bars, straight, satin finish, 2-1/2" diameter x 36" long	2.00 ea	1	87	86	-	-	-	86.58 /ea	173	124.98 /ea	250
					Toilet Accessories, grab bars, straight, satin finish, 2-1/2" diameter x 42" long	2.00 ea	1	97	84	-	-	-	90.42 /ea	181	130.31 /ea	261
					Toilet Accessories, hand dryer, surface mounted, electric, 230 volt, 10 amp	2.00 ea	4	436	1,360	-	-	-	897.90 /ea	1,796	1,313.07 /ea	2,626
					Toilet Accessories, hat & coat strip, stainless steel, 6 hook, 60" long	1.00 ea	0	44	106	-	-	-	149.58 /ea	150	218.22 /ea	218
					Toilet Accessories, mirror, 36" x 24", with stainless steel 3/4" square frame	2.00 ea	1	116	160	-	-	-	138.11 /ea	276	200.18 /ea	400
					Toilet Accessories, soap dispenser, chrome, surface mounted, liquid	2.00 ea	1	87	105	-	-	-	96.08 /ea	192	139.04 /ea	278
					Kitchen cabinets, rule of thumb, wall units, wood or p-lam, min. cost	8.00 lf	5	558	508	-	-	-	133.23 /lf	1,066	192.12 /lf	1,537
					Varities, vanity bases, 2 door, 30" h x 21" d x 30" w	2.00 ea	2	218	1,010	-	-	-	613.95 /ea	1,228	900.74 /ea	1,801
					Custom Cabinets, kitchen base cabinets, hardwood, prefinished, 2 top drawers, 2 doors below, 24" deep, 35" high, 48" wide, excl. countertops	2.00 ea	2	184	1,430	-	-	-	807.23 /ea	1,614	1,188.00 /ea	2,376
					Custom Cabinets, kitchen wall cabinets, hardwood, prefinished, 2 doors, 12" deep, 24" high, 36" wide	2.00 ea	1	154	1,000	-	-	-	576.79 /ea	1,154	848.08 /ea	1,696

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				10.00.07.00	Specialties Toilet & Bath Accessories											
					Cabinets, kitchen, wall cabinets, metal, maximum	3.00 lf	2	209	732	-	-	-	313.73 /lf	941	459.26 /lf	1,378
					Vanity Tops, solid surface, center bowl, 22" x 31"	2.00 ea	2	174	750	-	-	-	462.16 /ea	924	677.66 /ea	1,355
					Hand-washer-dryer module,wall mountd with paper towels,sensor operated	2.00 ea	4	448	7,100	-	-	-	3,773.95 /ea	7,548	5,569.13 /ea	11,138
					Signage Allowance	1.00 ls	4	436	1,000	-	-	-	1,435.79 /ls	1,436	2,093.34 /ls	2,093
					10.00.07.00 Specialties Toilet & Bath Accessories	***1.00* LS**	**30**	**3,248**	**15,431**				**18,678.67 /LS**	**18,679**	**27,408.59 /LS**	**27,409**
					MOA-10.00.001 Toilet Specialties	***1.00* LS**	**30**	**3,248**	**15,431**				**18,678.67 /LS**	**18,679**	**27,408.59 /LS**	**27,409**
					10.00 Specialties	***1.00* LS**	**30**	**3,248**	**15,431**				**18,678.67 /LS**	**18,679**	**27,408.59 /LS**	**27,409**
					10.0 Specialties	***1.00* LS**	**30**	**3,248**	**15,431**				**18,678.67 /LS**	**18,679**	**27,408.59 /LS**	**27,409**
	21.0				Fire Suppression											
		21.00			Fire Sprinkler											
			21.00.00.010		**Administration and Operations Building, Fire Sprinkler System**											
				21.00.10.10	Water-Based Fire-Suppression Systems											
					Wet Fire Sprinkler System Allowance	2,978.00 SF				53,604	-	-	18.00 /SF	53,604	22.63 /SF	67,406
					21.00.10.10 Water-Based Fire-Suppression Systems	***1.00* LS**				**53,604**			**53,604.00 /LS**	**53,604**	**67,405.96 /LS**	**67,406**
				21.00.10.15	Dry-Based Fire-Suppression Systems											
					Dry Fire Sprinkler System Allowance	435.00 SF				10,875	-	-	25.00 /SF	10,875	31.44 /SF	13,675
					21.00.10.15 Dry-Based Fire-Suppression Systems	**435.00 SF**				**10,875**			**25.00 /SF**	**10,875**	**31.44 /SF**	**13,675**
					21.00.00.010 Administration and Operations Building, Fire Sprinkler System	**3,413.00 SF**				**64,479**			**18.89 /SF**	**64,479**	**23.76 /SF**	**81,081**
					21.00 Fire Sprinkler	***1.00* LS**				**64,479**			**64,479.00 /LS**	**64,479**	**81,081.05 /LS**	**81,081**
					21.0 Fire Suppression	***1.00* LS**				**64,479**			**64,479.00 /LS**	**64,479**	**81,081.05 /LS**	**81,081**
	22.0				Plumbing											
		22.00			Plumbing											
			22.00.00.010		**Administration and Operations Building, Plumbing**											
				22.00.01.00	Mechanical, Plumbing											
					Plumbing, Supply, Sewer, Vent, Piping and Appurtenances	1.00 ls	96	11,085	16,000	-	1,680	-	28,765.22 /ls	28,765	37,331.69 /ls	37,332
					Plumbing Fixtures and Appurtenances	1.00 ls	48	5,543	5,000	-	840	-	11,382.61 /ls	11,383	14,675.90 /ls	14,676
					Miscellaneous Items and Consumables Allowance	1.00 ls		2,000	3,000	-	1,000	-	6,000.00 /ls	6,000	7,762.39 /ls	7,762
					22.00.01.00 Mechanical, Plumbing	***1.00* LS**	**144**	**18,628**	**24,000**		**3,520**		**46,147.83 /LS**	**46,148**	**59,769.98 /LS**	**59,770**
					22.00.00.010 Administration and Operations Building, Plumbing	***1.00* LS**	**144**	**18,628**	**24,000**		**3,520**		**46,147.83 /LS**	**46,148**	**59,769.98 /LS**	**59,770**
					22.00 Plumbing	***1.00* LS**	**144**	**18,628**	**24,000**		**3,520**		**46,147.83 /LS**	**46,148**	**59,769.98 /LS**	**59,770**
					22.0 Plumbing	***1.00* LS**	**144**	**18,628**	**24,000**		**3,520**		**46,147.83 /LS**	**46,148**	**59,769.98 /LS**	**59,770**
	23.0				HVAC											
		23.00			HVAC											
			23.00.00.010		**Administration and Operations Building, HVAC**											
				23.00.02.00	Mechanical, HVAC											
					Insulation, pipe covering (price copper tube one size less than I.P.S.), rubber tubing flexible closed cell foam, 1" wall, 3/4" pipe size	800.00 lf	76	6,411	3,352	-	-	-	12.20 /lf	9,763	15.65 /lf	12,519
					Pipe, copper, tubing, solder, 3/4" diameter, type K, includes coupling & clevis hanger assembly 10' O.C.	800.00 lf	80	9,238	6,200	-	-	-	19.30 /lf	15,438	24.83 /lf	19,862
					3/4" Pipe Fittings, Valving, and Appurtenances	1.00 ls		5,000	6,000	-	1,000	-	12,000.00 /ls	12,000	15,524.77 /ls	15,525
					Fan coil unit, chilled water, horizontal unit 4 pipe, 1/2 ton cooling, includes filters and fan speed control, excludes valves	8.00 ea	64	7,278	23,120	-	-	-	3,799.78 /ea	30,398	4,987.67 /ea	39,901
					Fan coil unit, chilled water, horizontal unit 4 pipe, 3/4 ton cooling, includes filters and fan speed control, excludes valves	1.00 ea	8	910	3,190	-	-	-	4,099.78 /ea	4,100	5,386.67 /ea	5,387
					Fan coil unit, chilled water, horizontal unit 4 pipe, 1 ton cooling, includes filters and fan speed control, excludes valves	2.00 ea	16	1,820	7,130	-	-	-	4,474.78 /ea	8,950	5,885.40 /ea	11,771
					Fan coil unit, chilled water, horizontal unit 4 pipe, 2 ton cooling, includes filters and fan speed control, excludes valves	3.00 ea	36	4,094	14,625	-	-	-	6,239.66 /ea	18,719	8,199.69 /ea	24,599
					HVAC Controls Allowance	1.00 ls	48	5,543	7,500	-	-	-	13,042.56 /ls	13,043	16,944.50 /ls	16,945
					Miscellaneous Items and Consumables Allowance	1.00 ls		7,000	8,000	-	1,000	-	16,000.00 /ls	16,000	20,699.67 /ls	20,700
					23.00.02.00 Mechanical, HVAC	***1.00* LS**	**328**	**47,292**	**79,117**		**2,000**		**128,409.28 /LS**	**128,409**	**167,208.06 /LS**	**167,208**
					23.00.00.010 Administration and Operations Building, HVAC	***1.00* LS**	**328**	**47,292**	**79,117**		**2,000**		**128,409.28 /LS**	**128,409**	**167,208.06 /LS**	**167,208**
					23.00 HVAC	***1.00* LS**	**328**	**47,292**	**79,117**		**2,000**		**128,409.28 /LS**	**128,409**	**167,208.06 /LS**	**167,208**
					23.0 HVAC	***1.00* LS**	**328**	**47,292**	**79,117**		**2,000**		**128,409.28 /LS**	**128,409**	**167,208.06 /LS**	**167,208**
	26.0				Electrical Work											
		26.15			Process Electrical											
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	500.00 lf	31	3,210	535	-	-	-	7.49 /lf	3,745	11.74 /lf	5,871
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.24 /lf	2,847
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	18.00 ea	18	1,878	114	-	-	-	110.67 /ea	1,992	172.82 /ea	3,111
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.82 /ea	346
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.63 /ea	355
					26.00.99.00 Electrical, Other	***1.00* LS**	**67**	**6,956**	**1,041**				**7,996.70 /LS**	**7,997**	**12,530.14 /LS**	**12,530**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	16.00 clf	12	1,214	219	-	-	-	89.57 /clf	1,433	140.49 /clf	2,248
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.39 /clf	1,471
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.89 /clf	2,833
					26.15.01.00 Process Electrical, Wire/Cable	**38.00 clf**	**32**	**3,321**	**846**				**109.65 /clf**	**4,167**	**172.39 /clf**	**6,551**
				26.20.05.00	Facility Electrical, HVAC											
					HVAC controls - electrical contractor scope	1.00 LS	50	5,216	5,500	-	-	-	10,715.85 /LS	10,716	17,088.48 /LS	17,088
					26.20.05.00 Facility Electrical, HVAC	***1.00* LS**	**50**	**5,216**	**5,500**				**10,715.85 /LS**	**10,716**	**17,088.48 /LS**	**17,088**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00* LS**	**149**	**15,493**	**7,386**				**22,879.32 /LS**	**22,879**	**36,169.59 /LS**	**36,170**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.10.02.00	Site Electrical, Buried Conduit											
					Electrical Trench, Backfill, Subcontract	40.00 ft	2	210		1,200	-	-	35.25 /ft	1,410	45.91 /ft	1,836
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,604.71 /ton	4,144

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Elctrcl undrgrnd ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	80.00 LF	8	835	298	-	-	-	14.15 /LF	1,132	22.31 /LF	1,785
					26.10.02.00 Site Electrical, Buried Conduit	**80.00 LF**	**21**	**2,293**	**1,648**	**1,200**			**64.25 /LF**	**5,140**	**97.07 /LF**	**7,765**
				26.10.04.00	**Site Electrical, Manholes/Handholes**											
					Electrcl undrgrnd ducts and manholes,hand holes,precast concrete,with concrete cover,4'x4'x4"deep,excludes excavation,backfill and cast place concrete	1.00 EA	14	1,597	1,775	-	141	-	3,513.03 /EA	3,513	5,600.17 /EA	5,600
					26.10.04.00 Site Electrical, Manholes/Handholes	**1.00 EA**	**14**	**1,597**	**1,775**		**141**		**3,513.03 /EA**	**3,513**	**5,600.17 /EA**	**5,600**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**35**	**3,890**	**3,423**	**1,200**	**141**		**8,653.37 /LS**	**8,653**	**13,365.60 /LS**	**13,366**
					26.15 Process Electrical	***1.00*** **LS**	**183**	**19,383**	**10,809**	**1,200**	**141**		**31,532.69 /LS**	**31,533**	**49,535.19 /LS**	**49,535**
		26.20			**Facility Electrical**											
			26.02.LV		**LV UG Conduits**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Electrical Trench, Encase, Backfill, Subcontract	40.00 ft	2	210		1,400	-	-	40.25 /ft	1,610	52.20 /ft	2,088
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.90 ton	23	2,635	2,850	-	-	-	2,886.69 /ton	5,485	4,604.72 /ton	8,749
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	200.00 LF	10	1,043	632	-	-	-	8.38 /LF	1,675	13.27 /LF	2,655
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	7	742	184	-	-	-	115.73 /ea	926	181.91 /ea	1,455
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	5	477	79	-	-	-	69.51 /ea	556	108.98 /ea	872
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	40.00 ea	8	814	71	-	-	-	22.13 /ea	885	34.60 /ea	1,384
					26.10.02.00 Site Electrical, Buried Conduit	**200.00 LF**	**54**	**5,921**	**3,816**	**1,400**			**55.69 /LF**	**11,137**	**86.01 /LF**	**17,203**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Electrcl undrgrnd ducts and manholes,hand holes,precast concrete,with concrete cover,4'x4'x4"deep,excludes excavation,backfill and cast place concrete	1.00 ea	14	1,597	1,775	-	141	-	3,513.03 /ea	3,513	5,600.14 /ea	5,600
					Elctrcl undrgrnd ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	80.00 LF	8	835	298	-	-	-	14.15 /LF	1,132	22.31 /LF	1,785
					26.10.03.00 Site Electrical, Duct Bank	**80.00 LF**	**22**	**2,432**	**2,073**		**141**		**58.06 /LF**	**4,645**	**92.31 /LF**	**7,385**
				26.10.04.00	**Site Electrical, Manholes/Handholes**											
					6' x 8' Transformer Pad w/ Vault, Jensen Precast #PD7296, civil sub	1.00 EA	16	1,681		1,000	-	-	2,681.46 /EA	2,681	3,876.32 /EA	3,876
					26.10.04.00 Site Electrical, Manholes/Handholes	**1.00 EA**	**16**	**1,681**		**1,000**			**2,681.46 /EA**	**2,681**	**3,876.32 /EA**	**3,876**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, 600 kcmil, type XHHW, in raceway	7.00 clf	43	4,494	14,875	-	-	-	2,766.95 /clf	19,369	4,463.53 /clf	31,245
					26.15.01.00 Process Electrical, Wire/Cable	**7.00 clf**	**43**	**4,494**	**14,875**				**2,766.95 /clf**	**19,369**	**4,463.53 /clf**	**31,245**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.92 /ea	1,824
					Ground wire, copper wire, bare stranded, 4/0	1.00 clf	3	293	420	-	-	-	712.82 /clf	713	1,140.68 /clf	1,141
					26.15.11.00 Process Electrical, Grounding	**1.00 clf**	**12**	**1,238**	**636**				**1,873.58 /clf**	**1,874**	**2,964.19 /clf**	**2,964**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, oil-filled, 15 kV with taps, 480 V secondary 3 phase, 750 kVA, pad mounted	1.00 EA	53	5,885	80,000	-	518	-	86,403.27 /EA	86,403	140,371.35 /EA	140,371
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**53**	**5,885**	**80,000**		**518**		**86,403.27 /EA**	**86,403**	**140,371.35 /EA**	**140,371**
					26.02.LV LV UG Conduits	***1.00*** **LS**	**200**	**21,651**	**101,400**	**2,400**	**659**		**126,109.47 /LS**	**126,109**	**203,044.46 /LS**	**203,044**
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	2.00 lf	1	52	106	-	-	-	78.98 /lf	158	126.84 /lf	254
					Copper Bus Bar Supports	3.00 E	3	313	145	-	-	-	152.62 /E	458	241.20 /E	724
					Grounding rod, copper clad, 10' long, 5/8" diameter	6.00 ea	10	1,089	195	-	-	-	213.92 /ea	1,284	335.53 /ea	2,013
					Ground wire, copper wire, bare stranded, 4/0	4.00 clf	11	1,171	1,680	-	-	-	712.82 /clf	2,851	1,140.66 /clf	4,563
					Exothermic weld	24.00 ea	36	3,755	227	-	-	-	165.93 /ea	3,982	259.11 /ea	6,219
					26.15.11.00 Process Electrical, Grounding	**4.00 clf**	**61**	**6,380**	**2,353**				**2,183.21 /clf**	**8,733**	**3,442.94 /clf**	**13,772**
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**61**	**6,380**	**2,353**				**8,732.83 /LS**	**8,733**	**13,771.76 /LS**	**13,772**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	800.00 lf	80	8,345	4,120	-	-	-	15.58 /lf	12,465	24.64 /lf	19,713
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	48.00 ea	19	2,003	162	-	-	-	45.10 /ea	2,165	70.48 /ea	3,383
					Outlet boxes, pressed steel, cover	48.00 ea	6	626	37	-	-	-	13.81 /ea	663	21.56 /ea	1,035
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.50 /ea	1,572
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**112**	**11,716**	**4,574**				**16,290.28 /LS**	**16,290**	**25,703.41 /LS**	**25,703**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	24.00 clf	17	1,821	329	-	-	-	89.57 /clf	2,150	140.49 /clf	3,372
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	8.00 clf	6	668	164	-	-	-	103.95 /clf	832	163.39 /clf	1,307
					26.15.01.00 Process Electrical, Wire/Cable	**32.00 clf**	**24**	**2,488**	**493**				**93.16 /clf**	**2,981**	**146.22 /clf**	**4,679**
				26.20.03.00	**Facility Electrical, Lighting**											
					Interior Light	42.00 E	84	8,763	12,600	-	-	-	508.63 /E	21,363	813.94 /E	34,185
					LED Strip Light, hdwe	12.00 ea	17	1,757	1,320	-	-	-	256.41 /ea	3,077	407.33 /ea	4,888
					Emergency ballast, material only, interior, factory installed in fixture	18.00 ea		-	2,736	-	-	-	152.00 /ea	2,736	247.76 /ea	4,460
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	6.00 ea	6	626	420	-	-	-	174.32 /ea	1,046	276.57 /ea	1,659
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	42.00 ea	11	1,095	229	-	-	-	31.53 /ea	1,324	49.50 /ea	2,079
					26.20.03.00 Facility Electrical, Lighting	***1.00*** **LS**	**117**	**12,241**	**17,305**				**29,545.68 /LS**	**29,546**	**47,271.43 /LS**	**47,271**
					26.25.LTG Interior Lighting and Control	***1.00*** **LS**	**254**	**26,445**	**22,372**				**48,817.20 /LS**	**48,817**	**77,653.78 /LS**	**77,654**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.74 /lf	4,110
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.48 /ea	846
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.56 /ea	259
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**28**	**2,904**	**424**				**3,328.21 /LS**	**3,328**	**5,214.36 /LS**	**5,214**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.49 /clf	1,686

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.01.00 Process Electrical, Wire/Cable	**12.00 clf**	**9**	**910**	**164**				**89.57 /clf**	**1,075**	**140.49 /clf**	**1,686**
				26.15.07.00	**Lighting**											
					LED Area Light	12.00 E	24	2,504	***6,000***	-	-	-	708.63 /E	8,504	1,139.93 /E	13,679
					Wallpack Photocell	12.00 E	24	2,504	3,600	-	-	-	508.63 /E	6,104	813.94 /E	9,767
					26.15.07.00 Lighting	***1.00* LS**	**48**	**5,007**	**9,600**				**14,607.22 /LS**	**14,607**	**23,446.44 /LS**	**23,446**
					26.26.EXTLTG Exterior Lighting and Control	***1.00* LS**	**85**	**8,822**	**10,189**				**19,010.23 /LS**	**19,010**	**30,346.71 /LS**	**30,347**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	900.00 lf	90	9,389	4,635	-	-	-	15.58 /lf	14,024	24.64 /lf	22,177
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	36.00 ea	24	2,504	792	-	-	-	91.54 /ea	3,296	144.17 /ea	5,190
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.50 /ea	1,572
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.49 /ea	1,458
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.94 /ea	1,091
					26.00.99.00 Electrical, Other	***1.00* LS**	**126**	**13,172**	**6,733**				**19,904.36 /LS**	**19,904**	**31,488.76 /LS**	**31,489**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	24.00 clf	17	1,821	329	-	-	-	89.57 /clf	2,150	140.49 /clf	3,372
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	8.00 clf	6	668	164	-	-	-	103.95 /clf	832	163.39 /clf	1,307
					26.15.01.00 Process Electrical, Wire/Cable	**32.00 clf**	**24**	**2,488**	**493**				**93.16 /clf**	**2,981**	**146.22 /clf**	**4,679**
					26.30.DEV Device Outlets	***1.00* LS**	**150**	**15,660**	**7,225**				**22,885.60 /LS**	**22,886**	**36,167.70 /LS**	**36,168**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.91 /hr	4,527
					26.00.99.00 Electrical, Other	***1.00* LS**	**16**	**1,669**	**800**		**400**		**2,869.07 /LS**	**2,869**	**4,526.53 /LS**	**4,527**
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	11.00 ea	11	1,147	286	-	-	-	130.32 /ea	1,433	204.85 /ea	2,253
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	550.00 lf	22	2,295	1,749	-	-	-	7.35 /lf	4,044	11.68 /lf	6,425
					LPS design and certification, misc mat and labor	1.00 LS	24	2,504	2,500	5,000	-	-	10,003.61 /LS	10,004	14,261.66 /LS	14,262
					26.15.10.00 Process Electrical, Lightning Protection	***1.00* LS**	**57**	**5,946**	**4,535**	**5,000**			**15,481.07 /LS**	**15,481**	**22,940.23 /LS**	**22,940**
					26.90.LPS Facility Lightning Protection System	***1.00* LS**	**73**	**7,615**	**5,335**	**5,000**	**400**		**18,350.14 /LS**	**18,350**	**27,466.76 /LS**	**27,467**
					26.20 Facility Electrical	***1.00* LS**	**822**	**86,573**	**148,874**	**7,400**	**1,059**		**243,905.47 /LS**	**243,905**	**388,451.17 /LS**	**388,451**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	4	371	138	-	-	-	12.73 /lf	509	20.08 /lf	803
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.15 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.76 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.56 /ea	81
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.90 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.49 /ea	131
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.41 /ea	181
					Switchboards, main circuit breaker, 3 pole, 4 wire, 277/480 volt, 800 amp	1.00 ea	15	1,605	13,500	-	-	-	15,104.88 /ea	15,105	24,504.29 /ea	24,504
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	20	2,086	2,125	-	-	-	4,211.34 /ea	4,211	6,713.14 /ea	6,713
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,365.72 /ea	11,366
					Uninterruptible power supply, charger, inverter, and alarm 1 phase, 120 V, 5 kVA, incl 10 minutes battery	1.00 ea	48	5,325	7,100	-	492	-	12,916.86 /ea	12,917	20,632.48 /ea	20,632
					26.00.99.00 Electrical, Other	***1.00* LS**	**118**	**12,625**	**27,169**		**492**		**40,286.37 /LS**	**40,286**	**64,714.98 /LS**	**64,715**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	1.00 clf	1	128	55	-	-	-	182.89 /clf	183	288.81 /clf	289
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	1.00 clf	2	157	78	-	-	-	234.96 /clf	235	371.58 /clf	372
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	4.00 clf	8	835	636	-	-	-	367.64 /clf	1,471	584.11 /clf	2,336
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	1.50 clf	5	569	578	-	-	-	764.33 /clf	1,147	1,218.34 /clf	1,828
					26.15.01.00 Process Electrical, Wire/Cable	**7.50 clf**	**16**	**1,689**	**1,346**				**404.65 /clf**	**3,035**	**643.25 /clf**	**4,824**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, low operating temperature (80 Deg. C), 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	11,300	-	-	-	13,684.39 /EA	13,684	22,132.42 /EA	22,132
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**23**	**2,384**	**11,300**				**13,684.39 /EA**	**13,684**	**22,132.42 /EA**	**22,132**
					26.20.DIST Electrical Distribution Equipment	***1.00* LS**	**157**	**16,699**	**39,815**		**492**		**57,005.65 /LS**	**57,006**	**91,671.74 /LS**	**91,672**
					26.25 Electrical Equipment	***1.00* LS**	**157**	**16,699**	**39,815**		**492**		**57,005.65 /LS**	**57,006**	**91,671.74 /LS**	**91,672**
					26.0 Electrical Work	***1.00* LS**	**1,162**	**122,655**	**199,497**	**8,600**	**1,691**		**332,443.81 /LS**	**332,444**	**529,658.10 /LS**	**529,658**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.10.COMEQ		**Communications Room Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	12	1,284	214	-	-	-	7.49 /lf	1,498	11.74 /lf	2,348
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.48 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.56 /ea	86
					Duplex receptacle, grounded, 120 volt, 20 amp	4.00 ea	1	124	43	-	-	-	41.56 /ea	166	65.50 /ea	262
					26.00.99.00 Electrical, Other	***1.00* LS**	**16**	**1,627**	**273**				**1,899.76 /LS**	**1,900**	**2,978.63 /LS**	**2,979**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	6.50 clf	5	493	89	-	-	-	89.57 /clf	582	140.49 /clf	913
					26.15.01.00 Process Electrical, Wire/Cable	**6.50 clf**	**5**	**493**	**89**				**89.57 /clf**	**582**	**140.49 /clf**	**913**
				26.15.03.00	**Process Electrical, Cable Tray**											
					Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 12" wide, to 15' elevation, incl fittings & supports	30.00 LF	6	582	539	-	-	-	37.36 /LF	1,121	59.49 /LF	1,785
					26.15.03.00 Process Electrical, Cable Tray	**30.00 LF**	**6**	**582**	**539**				**37.36 /LF**	**1,121**	**59.49 /LF**	**1,785**
					27.10.COMEQ Communications Room Equipment	***1.00* LS**	**26**	**2,702**	**901**				**3,602.67 /LS**	**3,603**	**5,676.39 /LS**	**5,676**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.15.01.00	**Process Electrical, Wire/Cable**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.01.00	Process Electrical, Wire/Cable											
					Closet Distribution Frame (CDF), 7 feet tall, 19 inches wide	4.00 E	64	6,726	10,000	-	-	-	4,181.46 /E	16,726	6,693.78 /E	26,775
					Network Equipment Allowance	1.00 LS	80	8,407	50,000	-	-	-	58,407.28 /LS	58,407	94,593.18 /LS	94,593
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	130.00 clf	80	8,345	1,261	-	-	-	73.90 /clf	9,606	115.79 /clf	15,053
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	130.00 clf	149	15,499	3,900	-	-	-	149.22 /clf	19,399	234.58 /clf	30,496
					26.15.01.00 Process Electrical, Wire/Cable	**260.00 clf**	**373**	**38,977**	**65,161**				**400.53 /clf**	**104,138**	**641.99 /clf**	**166,917**
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, copper wire, bare stranded, 4/0	1.55 clf	4	452	649	-	-	-	712.82 /clf	1,101	1,140.67 /clf	1,762
					Water pipe ground clamps, heavy duty, bronze, 1-1/4" to 2" diameter	1.50 ea	2	156	47	-	-	-	135.32 /ea	203	212.99 /ea	319
					26.15.11.00 Process Electrical, Grounding	**1.55 clf**	**6**	**609**	**695**				**844.20 /clf**	**1,304**	**1,347.46 /clf**	**2,082**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00* LS**	**378**	**39,586**	**65,856**				**105,442.28 /LS**	**105,442**	**168,998.80 /LS**	**168,999**
					27.00 Telecommunications	***1.00* LS**	**404**	**42,288**	**66,757**				**109,044.95 /LS**	**109,045**	**174,675.19 /LS**	**174,675**
					27.0 Telecommunications - Network	***1.00* LS**	**404**	**42,288**	**66,757**				**109,044.95 /LS**	**109,045**	**174,675.19 /LS**	**174,675**
	28.0				Electronic Safety and Security											
		28.00			Electronic Safety and Security											
			28.10.FA		Fire Alarm System											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	800.00 lf	49	5,136	856	-	-	-	7.49 /lf	5,992	11.74 /lf	9,394
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	24.00 ea	10	1,001	144	-	-	-	47.73 /ea	1,145	74.77 /ea	1,794
					Outlet boxes, pressed steel, covers, blank, 4" square	24.00 ea	3	313	48	-	-	-	15.04 /ea	361	23.57 /ea	566
					Devices/Panel	1.00 ls	72	7,511	12,000	-	-	-	19,510.82 /ls	19,511	31,257.72 /ls	31,258
					26.00.99.00 Electrical, Other	***1.00* LS**	**134**	**13,961**	**13,048**				**27,008.82 /LS**	**27,009**	**43,011.69 /LS**	**43,012**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	35.00 clf	22	2,247	340	-	-	-	73.90 /clf	2,586	115.79 /clf	4,053
					26.15.01.00 Process Electrical, Wire/Cable	**35.00 clf**	**22**	**2,247**	**340**				**73.90 /clf**	**2,586**	**115.79 /clf**	**4,053**
					28.10.FA Fire Alarm System	***1.00* LS**	**155**	**16,208**	**13,388**				**29,595.15 /LS**	**29,595**	**47,064.45 /LS**	**47,064**
			28.20.CCTV		Closed Circuit TV and Cameras											
				28.35.01.00	Electronic Safety and Security											
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	80	8,345	10,000	10,000	-	-	28,345.36 /LS	28,345	41,872.32 /LS	41,872
					28.35.01.00 Electronic Safety and Security	**1.00 LS**	**80**	**8,345**	**10,000**	**10,000**			**28,345.36 /LS**	**28,345**	**41,872.32 /LS**	**41,872**
					28.20.CCTV Closed Circuit TV and Cameras	**1.00 LS**	**80**	**8,345**	**10,000**	**10,000**			**28,345.36 /LS**	**28,345**	**41,872.32 /LS**	**41,872**
					28.00 Electronic Safety and Security	***1.00* LS**	**235**	**24,553**	**23,388**	**10,000**			**57,940.51 /LS**	**57,941**	**88,936.77 /LS**	**88,937**
					28.0 Electronic Safety and Security	***1.00* LS**	**235**	**24,553**	**23,388**	**10,000**			**57,940.51 /LS**	**57,941**	**88,936.77 /LS**	**88,937**
					2145 Funks PGP Administration and Operations Building	***1.00* LS**	**5,184**	**558,876**	**735,372**	**94,962**	**8,028**		**1,397,237.27 /LS**	**1,397,237**	**2,058,084.57 /LS**	**2,058,085**
2150					**Funks PGP Maintenance and Storage Building**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.002		8" thick Slab on Grade											
				03.10.05.08	Cast-In-Place Concrete, Slabs on Grade, 8" thick											
					Fine grade, for slab on grade, by hand	3,358.00 sf	24	2,125	101	-	-	-	0.66 /sf	2,225	0.97 /sf	3,251
					Fill, gravel subbase, under building slab on grade	124.37 cy	62	5,621	3,482	-	-	-	73.19 /cy	9,103	108.71 /cy	13,520
					Concrete pumping, subcontract, all inclusive price	82.91 cy		-	-	2,073	-	-	25.00 /cy	2,073	36.44 /cy	3,021
					Slab on grade edge forms, 7" to 12"	166.00 sf	30	3,237	166	-	-	-	20.50 /sf	3,403	29.95 /sf	4,972
					Waterstop, hydro-flex	249.00 lf	1	135	996	-	-	-	4.54 /lf	1,131	6.91 /lf	1,720
					Concrete, ready mix, 4500 psi	134.00 CY		-	29,480	-	-	-	220.00 /CY	29,480	336.60 /CY	45,104
					Add for concrete waste, 4500 psi	4.00 cy		-	880	-	-	-	220.00 /cy	880	336.60 /cy	1,346
					Placing concrete, concrete pump	134.00 cy	195	17,657	-	-	-	-	131.77 /cy	17,657	192.05 /cy	25,734
					Finishing floors, monolithic, trowel finish (machine)	3,358.00 sf	67	6,135	67	-	-	-	1.85 /sf	6,202	2.69 /sf	9,044
					Curing, membrane spray	3,358.00 sf	7	607	134	-	-	-	0.22 /sf	741	0.32 /sf	1,090
					Polyethelene vapor barrier, 10 mil thick	33.58 sq	7	796	356	-	-	-	34.30 /sq	1,152	50.76 /sq	1,705
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	12.00 ton	192	22,464	18,000	-	-	-	3,372.03 /ton	40,464	5,023.42 /ton	60,281
					Reinforcing in place, unloading & sorting, add to above - slabs	12.00 ton	7	801	-	-	278	-	89.94 /ton	1,079	131.09 /ton	1,573
					03.10.05.08 Cast-In-Place Concrete, Slabs on Grade, 8" thick	**134.00 CY**	**592**	**59,577**	**53,663**	**2,073**	**278**		**862.62 /CY**	**115,591**	**1,286.28 /CY**	**172,362**
					MOA-03.20.002 8" thick Slab on Grade	**134.00 CY**	**592**	**59,577**	**53,663**	**2,073**	**278**		**862.62 /CY**	**115,591**	**1,286.28 /CY**	**172,362**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**134.00 CY**	**592**	**59,577**	**53,663**	**2,073**	**278**		**862.62 /CY**	**115,591**	**1,286.28 /CY**	**172,362**
					03.0 Concrete Work	**134.00 CY**	**592**	**59,577**	**53,663**	**2,073**	**278**		**862.62 /CY**	**115,591**	**1,286.28 /CY**	**172,362**
	04.0				Masonry - Architectural											
		04.21			Concrete Unit Masonry - Exterior											
			MOA-04.21.001		8" thick Exterior CMU Wall											
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Grout, door frames, 3' x 7' opening, 2.5 C.F. per opening	2.00 opng	1	113	30	-	5	-	74.19 /opng	148	105.50 /opng	211
					Grout, door frames, 6' x 7' opening, 3.5 C.F. per opening	2.00 opng	1	151	41	-	7	-	99.76 /opng	200	141.88 /opng	284
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	883.70 cf	81	8,597	5,214	-	408	-	16.09 /cf	14,219	23.07 /cf	20,391
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	1,201.84 lb	21	2,204	481	-	-	-	2.23 /lb	2,685	3.17 /lb	3,814
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	883.70 lb	20	2,083	627	-	-	-	3.07 /lb	2,711	4.37 /lb	3,861
					Allow - shoring and bracing at CMU walls (percentage wall area)	1,060.44 sfwa	12	1,321	191	-	-	-	1.43 /sfwa	1,511	2.02 /sfwa	2,141
					Control joint, PVC, cross-shaped for CMU units	120.00 lf	3	354	294	-	-	-	5.40 /lf	648	7.77 /lf	933
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	3,534.81 SF	471	47,919	20,502	-	-	-	19.36 /SF	68,421	27.66 /SF	97,787
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	120.00 lf	32	4,008	378	-	200	-	38.22 /lf	4,586	54.02 /lf	6,482
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	38.00 lf	17	2,077	298	-	104	-	65.23 /lf	2,479	92.39 /lf	3,511
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.16 mbf	5	547	188	-	-	-	4,593.00 /mbf	735	6,549.81 /mbf	1,048
					Silicone water repellants, sprayed on CMU, 2 coat	7,069.63 sf	19	1,945	8,766	-	-	-	1.52 /sf	10,711	2.22 /sf	15,711
					Reglet, zinc and copper alloy, 20 ounce	120.00 lf	4	465	344	-	-	-	6.74 /lf	809	9.70 /lf	1,164
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	120.00 lf	6	780	630	-	-	-	11.75 /lf	1,410	16.92 /lf	2,030
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	120.00 lf	3	360	83	-	-	-	3.69 /lf	443	5.24 /lf	629
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**3,534.81 SF**	**698**	**72,923**	**38,067**		**724**		**31.60 /SF**	**111,715**	**45.26 /SF**	**159,997**
					MOA-04.21.001 8" thick Exterior CMU Wall	**3,534.81 SF**	**698**	**72,923**	**38,067**		**724**		**31.60 /SF**	**111,715**	**45.26 /SF**	**159,997**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					04.21 Concrete Unit Masonry - Exterior	**3,534.81 SF**	**698**	**72,923**	**38,067**		**724**		**31.60 /SF**	**111,715**	**45.26 /SF**	**159,997**
		04.23			**Concrete Unit Masonry - Interior**											
			MOA-04.23.001		**8" thick Interior CMU Wall**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Grouting, interior door frame, average 3.0 cf/opening (single & pair)	3.00 opng	2	227	62	-	11	-	99.76 /opng	299	141.89 /opng	426
					Grout, C476. interior CMU cells/cores, bond beams and lintels	186.04 cf	17	1,810	1,098	-	86	-	16.09 /cf	2,993	23.07 /cf	4,293
					Reinforcing, steel bars A615, average #4 bar, interior CMU	439.05 lb	8	805	312	-	-	-	2.54 /lb	1,117	3.63 /lb	1,594
					Joint reinforcing, regular truss, to 12" wide, mill galv, interior CMU	5.70 clf	2	235	140	-	-	-	65.76 /clf	375	94.33 /clf	538
					Control joint, average cost, interior or core CMU walls	200.00 lf	4	413	1,000	-	-	-	7.06 /lf	1,413	10.30 /lf	2,061
					Glazed CMU, unreinforced, hollow, double face, 8x16x8 - Interior	744.15 SF	99	10,088	7,851	-	-	-	24.11 /SF	17,939	34.69 /SF	25,817
					Angle framing, structural steel, 2-1/2"x2-1/2"x1/4", field fabricated, incl cutting & welding	8.00 lf	3	334	32	-	17	-	47.89 /lf	383	67.69 /lf	542
					Lightweight framing, channel, field fab, avg. 8 lbs/lf	40.00 lb	2	240	40	-	12	-	7.30 /lb	292	10.35 /lb	414
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 6"	0.06 mbf	2	261	95	-	-	-	5,933.00 /mbf	356	8,465.00 /mbf	508
					Caulking and sealants, butyl based, bulk, in place, 154 LF per gallon, 1/4" x 1/2"	200.00 lf	6	573	70	-	-	-	3.22 /lf	643	4.55 /lf	910
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**744.15 SF**	**145**	**14,986**	**10,698**		**125**		**34.68 /SF**	**25,810**	**49.86 /SF**	**37,102**
					MOA-04.23.001 8" thick Interior CMU Wall	**744.15 SF**	**145**	**14,986**	**10,698**		**125**		**34.68 /SF**	**25,810**	**49.86 /SF**	**37,102**
					04.23 Concrete Unit Masonry - Interior	**744.15 SF**	**145**	**14,986**	**10,698**		**125**		**34.68 /SF**	**25,810**	**49.86 /SF**	**37,102**
					04.0 Masonry - Architectural	**4,278.97 SF**	**843**	**87,910**	**48,765**		**850**		**32.14 /SF**	**137,525**	**46.06 /SF**	**197,099**
	05.0				**Metals**											
		05.10			**Structural Steel**											
			MOA-05.10.001		**Steel Roof Joist**											
				05.20.01.00	**Metals, Steel Joists**											
					Open web joists, K series, to 30' span, average cost	0.65 TN		-	-	8,775	-	-	13,500.00 /TN	8,775	16,975.97 /TN	11,034
					Roof truss,using galv metal studs,fink (w) king post type,4:12 pitch,18 x 4"chrds,32'span,excl erectn,bridgng&bracing,fabrication only trusses on-site	13.00 ea	104	11,287	18,260	-	-	-	2,272.87 /ea	29,547	3,300.86 /ea	42,911
					05.20.01.00 Metals, Steel Joists	**0.65 TN**	**104**	**11,287**	**18,260**	**8,775**			**58,957.43 /TN**	**38,322**	**82,993.08 /TN**	**53,946**
					MOA-05.10.001 Steel Roof Joist	**0.65 TN**	**104**	**11,287**	**18,260**	**8,775**			**58,957.43 /TN**	**38,322**	**82,993.08 /TN**	**53,946**
					05.10 Structural Steel	***1.00* LS**	**104**	**11,287**	**18,260**	**8,775**			**38,322.33 /LS**	**38,322**	**53,945.50 /LS**	**53,946**
					05.0 Metals	***1.00* LS**	**104**	**11,287**	**18,260**	**8,775**			**38,322.33 /LS**	**38,322**	**53,945.50 /LS**	**53,946**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Blanket insulation, for walls or ceilings, kraft faced fiberglass, 9" thick, R30, 23" wide	4,272.00 sf	25	2,758	4,272	-	-	-	1.65 /sf	7,030	2.39 /sf	10,204
					Steel roofing panels, on steel frame, flat profile, standard finish, 1-3/4" standing seams, 12" wide, 24 gauge	4,272.00 SF	144	15,315	30,118	-	-	-	10.64 /SF	45,433	15.48 /SF	66,129
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	75.00 lf	4	504	350	-	-	-	11.38 /lf	854	16.36 /lf	1,227
					Gutters, alum, 5" x 6" comb fascia & gutter, .032" thick, enameled	187.00 lf	25	3,038	658	-	-	-	19.77 /lf	3,697	28.08 /lf	5,251
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**4,272.00 SF**	**198**	**21,616**	**35,397**				**13.35 /SF**	**57,013**	**19.38 /SF**	**82,811**
					MOA-07.00.001 Metal Roof	**4,272.00 SF**	**198**	**21,616**	**35,397**				**13.35 /SF**	**57,013**	**19.38 /SF**	**82,811**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**198**	**21,616**	**35,397**				**57,013.23 /LS**	**57,013**	**82,811.30 /LS**	**82,811**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**198**	**21,616**	**35,397**				**57,013.23 /LS**	**57,013**	**82,811.30 /LS**	**82,811**
	08.0				**Openings**											
		08.00			**Openings**											
			MOA-08.10.001		**Exterior Doors**											
				08.30.01.20	**Specialty Doors and Frames, Coiling Doors**											
					Doors, rolling service, steel, manual, 20 gauge, 12' x 12' high, incl. hardware	2.00 ea	27	3,307	2,500	-	-	-	2,903.58 /ea	5,807	4,177.35 /ea	8,355
					Doors, rolling service, steel, manual, for 18 gauge doors, add	288.00 sf		-	513	-	-	-	1.78 /sf	513	2.63 /sf	759
					Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jambs, add	48.00 lf		-	108	-	-	-	2.25 /lf	108	3.33 /lf	160
					Doors, rolling service, steel, manual, for weatherstripping, hood, extruded rubber, add	24.00 lf		-	708	-	-	-	29.50 /lf	708	43.66 /lf	1,048
					Doors, rolling service, steel, manual, motor operators for, to 14' x 14' opening	2.00 EA	6	794	2,200	-	-	-	1,496.86 /EA	2,994	2,186.55 /EA	4,373
					08.30.01.20 Specialty Doors and Frames, Coiling Doors	**2.00 EA**	**33**	**4,101**	**6,029**				**5,064.76 /EA**	**10,130**	**7,347.08 /EA**	**14,694**
					MOA-08.10.001 Exterior Doors	**2.00 EA**	**33**	**4,101**	**6,029**				**5,064.76 /EA**	**10,130**	**7,347.08 /EA**	**14,694**
					08.00 Openings	***1.00* LS**	**33**	**4,101**	**6,029**				**10,129.51 /LS**	**10,130**	**14,694.15 /LS**	**14,694**
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	2.00 opng	5	581	74	-	-	-	327.57 /opng	655	463.73 /opng	927
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	2.00 ea	16	1,984	2,400	-	-	-	2,192.15 /ea	4,384	3,172.40 /ea	6,345
					Doors & Frames, steel, entrance, narrow stile, clear finish, 6'-0" x 7'-0" opening, incl. standard hardware, excl. glass	2.00 ea	25	3,053	4,500	-	-	-	3,776.38 /ea	7,553	5,478.30 /ea	10,957
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	6.00 EA	5	581	5,820	-	-	-	1,066.84 /EA	6,401	1,571.88 /EA	9,431
					08.10.01.10 Doors and Frames, Hollow Metal	**6.00 EA**	**51**	**6,199**	**12,794**				**3,165.54 /EA**	**18,993**	**4,610.03 /EA**	**27,660**
					MOA-08.10.001 Exterior Doors	**6.00 EA**	**51**	**6,199**	**12,794**				**3,165.54 /EA**	**18,993**	**4,610.03 /EA**	**27,660**
					08.10 Doors and Frames - Exterior Doors	**6.00 EA**	**51**	**6,199**	**12,794**				**3,165.54 /EA**	**18,993**	**4,610.03 /EA**	**27,660**
		08.15			**Doors and Frames - Interior Doors**											
			MOA-08.15.001		**Interior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Doors, steel, interior, 7'-0" x 3'-0" wide	5.00 EA	15	1,634	10,000	-	-	-	2,326.84 /EA	11,634	3,419.99 /EA	17,100
					08.10.01.10 Doors and Frames, Hollow Metal	**5.00 EA**	**15**	**1,634**	**10,000**				**2,326.84 /EA**	**11,634**	**3,419.99 /EA**	**17,100**
					MOA-08.15.001 Interior Doors	**5.00 EA**	**15**	**1,634**	**10,000**				**2,326.84 /EA**	**11,634**	**3,419.99 /EA**	**17,100**
					08.15 Doors and Frames - Interior Doors	**5.00 EA**	**15**	**1,634**	**10,000**				**2,326.84 /EA**	**11,634**	**3,419.99 /EA**	**17,100**
					08.0 Openings	**13.00 EA**	**99**	**11,934**	**28,823**				**3,135.15 /EA**	**40,757**	**4,573.40 /EA**	**59,454**
	09.0				**Finishes**											
		09.20			**Plaster and Gypsum Board**											
			MOA-09.20.001		**3-5/8" thick Interior Metal Stud Wall - Type A**											
				09.00.99.00	**Finishes, Other**											
					2-1/2" Metal studs, galv, 25 ga., 24" oc, non load brng, >10' ht.	2,134.55 SF	28	3,102	256	-	-	-	1.57 /SF	3,358	2.22 /SF	4,746
					Pack void between top track and flutes and seal both sides	150.00 lf	8	817	88	-	-	-	6.03 /lf	905	8.53 /lf	1,280
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	4,269.09 sf	88	9,602	2,305	-	-	-	2.79 /sf	11,908	3.96 /sf	16,927

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					09.00.99.00 Finishes, Other	**2,134.55 SF**	**124**	**13,522**	**2,649**				**7.58 /SF**	**16,171**	**10.75 /SF**	**22,952**
					MOA-09.20.001 3-5/8" thick Interior Metal Stud Wall - Type A	**2,134.55 SF**	**124**	**13,522**	**2,649**				**7.58 /SF**	**16,171**	**10.75 /SF**	**22,952**
			MOA-09.20.002		**3-5/8" thick Interior Metal Stud Wall - Type B**											
				09.00.99.00	**Finishes, Other**											
					Blanket insulation, for walls or ceilings, unfaced fiberglass, 3-1/2" thick, R13, 23" wide	588.00 sf	3	320	347	-	-	-	1.13 /sf	667	1.64 /sf	964
					3-5/8" Metal studs, galv, 25 ga., 24" oc, non load brng, >10' ht.	588.00 sf	8	865	82	-	-	-	1.61 /sf	948	2.28 /sf	1,340
					Pack void between top track and flutes and seal both sides	40.00 lf	2	218	23	-	-	-	6.03 /lf	241	8.53 /lf	341
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	1,176.00 SF	24	2,645	635	-	-	-	2.79 /SF	3,280	3.96 /SF	4,663
					09.00.99.00 Finishes, Other	**1,176.00 SF**	**37**	**4,049**	**1,088**				**4.37 /SF**	**5,136**	**6.21 /SF**	**7,308**
					MOA-09.20.002 3-5/8" thick Interior Metal Stud Wall - Type B	**1,176.00 SF**	**37**	**4,049**	**1,088**				**4.37 /SF**	**5,136**	**6.21 /SF**	**7,308**
					09.20 Plaster and Gypsum Board	**3,310.55 SF**	**161**	**17,570**	**3,737**				**6.44 /SF**	**21,307**	**9.14 /SF**	**30,261**
		09.90			**Painting and Coating**											
			MOA-07.10.001		**Paintings and Coatings**											
				09.00.99.00	**Finishes, Other**											
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	4,272.00 SF	28	2,589	427	-	-	-	0.71 /SF	3,016	1.00 /SF	4,276
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	4,272.00 sf	57	5,177	1,666	-	-	-	1.60 /sf	6,843	2.28 /sf	9,752
					09.00.99.00 Finishes, Other	**4,272.00 SF**	**85**	**7,766**	**2,093**				**2.31 /SF**	**9,859**	**3.28 /SF**	**14,028**
					MOA-07.10.001 Paintings and Coatings	**4,272.00 SF**	**85**	**7,766**	**2,093**				**2.31 /SF**	**9,859**	**3.28 /SF**	**14,028**
					09.90 Painting and Coating	**4,272.00 SF**	**85**	**7,766**	**2,093**				**2.31 /SF**	**9,859**	**3.28 /SF**	**14,028**
					09.0 Finishes	***1.00* LS**	**247**	**25,336**	**5,830**				**31,166.36 /LS**	**31,166**	**44,288.72 /LS**	**44,289**
	21.0				**Fire Suppression**											
		21.00			**Fire Sprinkler**											
			21.00.00.020		**Maintenance and Storage Building, Fire Sprinkler System**											
				21.00.10.10	**Water-Based Fire-Suppression Systems**											
					Wet Fire Sprinkler System Allowance	3,356.00 SF				60,408	-	-	18.00 /SF	60,408	22.63 /SF	75,962
					21.00.10.10 Water-Based Fire-Suppression Systems	***1.00* LS**				**60,408**			**60,408.00 /LS**	**60,408**	**75,961.84 /LS**	**75,962**
					21.00.00.020 Maintenance and Storage Building, Fire Sprinkler System	**3,356.00 SF**				**60,408**			**18.00 /SF**	**60,408**	**22.63 /SF**	**75,962**
					21.00 Fire Sprinkler	***1.00* LS**				**60,408**			**60,408.00 /LS**	**60,408**	**75,961.84 /LS**	**75,962**
					21.0 Fire Suppression	***1.00* LS**				**60,408**			**60,408.00 /LS**	**60,408**	**75,961.84 /LS**	**75,962**
	22.0				**Plumbing**											
		22.00			**Plumbing**											
			22.00.00.020		**Maintenance and Storage Building, Plumbing**											
				22.00.01.00	**Mechanical, Plumbing**											
					Plumbing, Supply, Sewer, Vent, Piping and Appurtenances	1.00 ls	48	5,543	4,000	-	840	-	10,382.61 /ls	10,383	13,345.93 /ls	13,346
					Plumbing Fixtures and Appurtenances	1.00 ls	48	5,543	3,500	-	280	-	9,322.61 /ls	9,323	11,976.74 /ls	11,977
					Miscellaneous Items and Consumables Allowance	1.00 ls		1,000	1,500	-	500	-	3,000.00 /ls	3,000	3,881.18 /ls	3,881
					22.00.01.00 Mechanical, Plumbing	***1.00* LS**	**96**	**12,085**	**9,000**		**1,620**		**22,705.22 /LS**	**22,705**	**29,203.85 /LS**	**29,204**
					22.00.00.020 Maintenance and Storage Building, Plumbing	***1.00* LS**	**96**	**12,085**	**9,000**		**1,620**		**22,705.22 /LS**	**22,705**	**29,203.85 /LS**	**29,204**
					22.00 Plumbing	***1.00* LS**	**96**	**12,085**	**9,000**		**1,620**		**22,705.22 /LS**	**22,705**	**29,203.85 /LS**	**29,204**
					22.0 Plumbing	***1.00* LS**	**96**	**12,085**	**9,000**		**1,620**		**22,705.22 /LS**	**22,705**	**29,203.85 /LS**	**29,204**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.00.020		**Maintenance and Storage Building, HVAC**											
				23.00.02.00	**Mechanical, HVAC**											
					HVAC Allowance, Includes Ventilator, Boiler, Pumps, and Unit Heaters	1.00 ls				117,460	-	-	117,460.00 /ls	117,460	147,703.61 /ls	147,704
					23.00.02.00 Mechanical, HVAC	***1.00* LS**				**117,460**			**117,460.00 /LS**	**117,460**	**147,703.61 /LS**	**147,704**
					23.00.00.020 Maintenance and Storage Building, HVAC	***1.00* LS**				**117,460**			**117,460.00 /LS**	**117,460**	**147,703.61 /LS**	**147,704**
					23.00 HVAC	***1.00* LS**				**117,460**			**117,460.00 /LS**	**117,460**	**147,703.61 /LS**	**147,704**
					23.0 HVAC	***1.00* LS**				**117,460**			**117,460.00 /LS**	**117,460**	**147,703.61 /LS**	**147,704**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.74 /lf	3,523
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.24 /lf	2,847
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.82 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.82 /ea	346
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.63 /ea	355
					26.00.99.00 Electrical, Other	***1.00* LS**	**40**	**4,212**	**738**				**4,949.45 /LS**	**4,949**	**7,762.15 /LS**	**7,762**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	4.50 clf	3	341	62	-	-	-	89.57 /clf	403	140.49 /clf	632
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.39 /clf	1,471
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.89 /clf	2,833
					26.15.01.00 Process Electrical, Wire/Cable	**26.50 clf**	**23**	**2,449**	**688**				**118.37 /clf**	**3,137**	**186.24 /clf**	**4,935**
				26.20.05.00	**Facility Electrical, HVAC**											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,704.91 /LS	5,705
					26.20.05.00 Facility Electrical, HVAC	***1.00* LS**			**3,500**				**3,500.00 /LS**	**3,500**	**5,704.91 /LS**	**5,705**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00* LS**	**64**	**6,660**	**4,926**				**11,586.20 /LS**	**11,586**	**18,402.38 /LS**	**18,402**
					26.15 Process Electrical	***1.00* LS**	**64**	**6,660**	**4,926**				**11,586.20 /LS**	**11,586**	**18,402.38 /LS**	**18,402**
		26.20			**Facility Electrical**											
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	1.00 lf	0	26	53	-	-	-	78.98 /lf	79	126.85 /lf	127
					Copper Bus Bar Supports	2.00 E	2	209	97	-	-	-	152.62 /E	305	241.20 /E	482
					Grounding rod, copper clad, 10' long, 5/8" diameter	6.00 ea	10	1,089	195	-	-	-	213.92 /ea	1,284	335.53 /ea	2,013
					Ground wire, copper wire, bare stranded, 4/0	4.00 clf	11	1,171	1,680	-	-	-	712.82 /clf	2,851	1,140.65 /clf	4,563
					Exothermic weld	16.00 ea	24	2,504	151	-	-	-	165.93 /ea	2,655	259.11 /ea	4,146

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.11.00 Process Electrical, Grounding	**4.00 clf**	**48**	**4,998**	**2,176**				**1,793.46 /clf**	**7,174**	**2,832.71 /clf**	**11,331**
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**48**	**4,998**	**2,176**				**7,173.83 /LS**	**7,174**	**11,330.85 /LS**	**11,331**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	450.00 lf	45	4,694	2,318	-	-	-	15.58 /lf	7,012	24.64 /lf	11,089
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	72.00 ea	29	3,004	243	-	-	-	45.10 /ea	3,247	70.48 /ea	5,075
					Outlet boxes, pressed steel, covers, blank, 4" square	72.00 ea	9	939	55	-	-	-	13.81 /ea	994	21.56 /ea	1,553
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**83**	**8,637**	**2,616**				**11,253.03 /LS**	**11,253**	**17,715.99 /LS**	**17,716**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	10.00 clf	7	759	137	-	-	-	89.57 /clf	896	140.49 /clf	1,405
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	4.00 clf	3	334	82	-	-	-	103.95 /clf	416	163.39 /clf	654
					26.15.01.00 Process Electrical, Wire/Cable	**14.00 clf**	**10**	**1,092**	**219**				**93.68 /clf**	**1,311**	**147.03 /clf**	**2,058**
				26.20.03.00	**Facility Electrical, Lighting**											
					LED Strip Light, hdwe	34.00 ea	48	4,978	3,740	-	-	-	256.41 /ea	8,718	407.33 /ea	13,849
					Emergency ballast, material only, interior, factory installed in fixture	12.00 ea		-	1,824	-	-	-	152.00 /ea	1,824	247.76 /ea	2,973
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	4.00 ea	4	417	280	-	-	-	174.32 /ea	697	276.57 /ea	1,106
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	34.00 ea	9	887	185	-	-	-	31.53 /ea	1,072	49.50 /ea	1,683
					26.20.03.00 Facility Electrical, Lighting	***1.00*** **LS**	**60**	**6,282**	**6,029**				**12,311.19 /LS**	**12,311**	**19,611.55 /LS**	**19,612**
					26.25.LTG Interior Lighting and Control	***1.00*** **LS**	**153**	**16,012**	**8,864**				**24,875.70 /LS**	**24,876**	**39,386.02 /LS**	**39,386**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	250.00 lf	15	1,605	268	-	-	-	7.49 /lf	1,872	11.74 /lf	2,936
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.48 /ea	846
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.56 /ea	259
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**22**	**2,262**	**317**				**2,579.26 /LS**	**2,579**	**4,040.14 /LS**	**4,040**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.49 /clf	1,686
					26.15.01.00 Process Electrical, Wire/Cable	**12.00 clf**	**9**	**910**	**164**				**89.57 /clf**	**1,075**	**140.49 /clf**	**1,686**
				26.15.07.00	**Lighting**											
					LED Area Light	10.00 E	20	2,086	5,000	-	-	-	708.63 /E	7,086	1,139.93 /E	11,399
					Wallpack Photocell	10.00 E	20	2,086	3,000	-	-	-	508.63 /E	5,086	813.94 /E	8,139
					26.15.07.00 Lighting	***1.00*** **LS**	**40**	**4,173**	**8,000**				**12,172.68 /LS**	**12,173**	**19,538.71 /LS**	**19,539**
					26.26.EXTLTG Exterior Lighting and Control	***1.00*** **LS**	**70**	**7,345**	**8,482**				**15,826.74 /LS**	**15,827**	**25,264.75 /LS**	**25,265**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	900.00 lf	90	9,389	4,635	-	-	-	15.58 /lf	14,024	24.64 /lf	22,177
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	28.00 ea	19	1,947	616	-	-	-	91.54 /ea	2,563	144.17 /ea	4,037
					Duplex receptacle, grounded, 120 volt, 20 amp	16.00 ea	5	495	170	-	-	-	41.56 /ea	665	65.50 /ea	1,048
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.49 /ea	1,458
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.94 /ea	1,091
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**119**	**12,368**	**6,471**				**18,839.53 /LS**	**18,840**	**29,811.36 /LS**	**29,811**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	30.00 clf	22	2,276	411	-	-	-	89.57 /clf	2,687	140.49 /clf	4,215
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	4.00 clf	3	334	82	-	-	-	103.95 /clf	416	163.39 /clf	654
					26.15.01.00 Process Electrical, Wire/Cable	**34.00 clf**	**25**	**2,610**	**493**				**91.26 /clf**	**3,103**	**143.19 /clf**	**4,868**
					26.30.DEV Device Outlets	***1.00*** **LS**	**144**	**14,978**	**6,964**				**21,942.35 /LS**	**21,942**	**34,679.69 /LS**	**34,680**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.91 /hr	4,527
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,669**	**800**		**400**		**2,869.07 /LS**	**2,869**	**4,526.52 /LS**	**4,527**
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	50.00 ea	50	5,216	1,300	-	-	-	130.32 /ea	6,516	204.85 /ea	10,243
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	1,650.00 lf	41	4,303	5,247	-	-	-	5.79 /lf	9,550	9.25 /lf	15,254
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.81 /LS	20,124
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**126**	**13,170**	**11,547**	**5,000**			**29,717.03 /LS**	**29,717**	**45,620.83 /LS**	**45,621**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**142**	**14,839**	**12,347**	**5,000**	**400**		**32,586.10 /LS**	**32,586**	**50,147.35 /LS**	**50,147**
					26.20 Facility Electrical	***1.00*** **LS**	**558**	**58,172**	**38,833**	**5,000**	**400**		**102,404.72 /LS**	**102,405**	**160,808.66 /LS**	**160,809**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	4	371	138	-	-	-	12.73 /lf	509	20.08 /lf	803
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.15 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.76 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.56 /ea	81
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.88 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.49 /ea	131
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.40 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,365.74 /ea	11,366
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,077.18 /ea	13,077
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**63**	**6,590**	**9,619**				**16,208.78 /LS**	**16,209**	**25,942.24 /LS**	**25,942**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.25 clf	0	32	14	-	-	-	182.92 /clf	46	288.84 /clf	72
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.15 clf	0	24	12	-	-	-	235.00 /clf	35	371.73 /clf	56
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	1.00 clf	2	209	159	-	-	-	367.63 /clf	368	584.10 /clf	584
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	0.60 clf	2	228	231	-	-	-	764.33 /clf	459	1,218.35 /clf	731
					26.15.01.00 Process Electrical, Wire/Cable	**2.00 clf**	**5**	**492**	**415**				**453.61 /clf**	**907**	**721.54 /clf**	**1,443**
				26.25.06.00	**Transformers, Dry Type**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.25.06.00	Transformers, Dry Type											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 30 kVA	1.00 EA	18	1,855	1,800	-	-	-	3,654.52 /EA	3,655	5,822.32 /EA	5,822
					26.25.06.00 Transformers, Dry Type	1.00 EA	18	1,855	1,800				3,654.52 /EA	3,655	5,822.32 /EA	5,822
					26.20.DIST Electrical Distribution Equipment	1.00 LS	86	8,936	11,835				20,770.51 /LS	20,771	33,207.64 /LS	33,208
					26.25 Electrical Equipment	1.00 LS	86	8,936	11,835				20,770.51 /LS	20,771	33,207.64 /LS	33,208
					26.0 Electrical Work	1.00 LS	707	73,769	55,593	5,000	400		134,761.43 /LS	134,761	212,418.68 /LS	212,419
	28.0				Electronic Safety and Security											
		28.00			Electronic Safety and Security											
			28.10.FA		Fire Alarm System											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	650.00 lf	40	4,173	696	-	-	-	7.49 /lf	4,868	11.74 /lf	7,633
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.48 /ea	4,229
					Outlet boxes, pressed steel, covers, blank, 4" square	60.00 ea	8	782	46	-	-	-	13.81 /ea	829	21.56 /ea	1,294
					Devices/panel	1.00 ls	64	6,676	8,500	-	-	-	15,176.29 /ls	15,176	24,253.03 /ls	24,253
					26.00.99.00 Electrical, Other	1.00 LS	136	14,135	9,444				23,578.86 /LS	23,579	37,408.30 /LS	37,408
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.79 /clf	34,738
					26.15.01.00 Process Electrical, Wire/Cable	300.00 clf	185	19,259	2,910				73.90 /clf	22,169	115.79 /clf	34,738
					28.10.FA Fire Alarm System	1.00 LS	320	33,393	12,354				45,747.38 /LS	45,747	72,146.30 /LS	72,146
			28.20.CCTV		Closed Circuit TV and Cameras											
				28.35.01.00	Electronic Safety and Security											
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	80	8,345	10,000	10,000	-	-	28,345.36 /LS	28,345	41,872.32 /LS	41,872
					28.35.01.00 Electronic Safety and Security	1.00 LS	80	8,345	10,000	10,000			28,345.36 /LS	28,345	41,872.32 /LS	41,872
					28.20.CCTV Closed Circuit TV and Cameras	1.00 LS	80	8,345	10,000	10,000			28,345.36 /LS	28,345	41,872.32 /LS	41,872
					28.00 Electronic Safety and Security	1.00 LS	400	41,739	22,354	10,000			74,092.74 /LS	74,093	114,018.62 /LS	114,019
					28.0 Electronic Safety and Security	1.00 LS	400	41,739	22,354	10,000			74,092.74 /LS	74,093	114,018.62 /LS	114,019
					2150 Funks PGP Maintenance and Storage Building	1.00 LS	3,287	345,253	277,684	203,716	3,148		829,801.83 /LS	829,802	1,189,266.96 /LS	1,189,267
2155					**Funks PGP Pumping Plant**											
	03.0				Concrete Work											
		03.13			Cast-In-Place Concrete, Continuous Footings											
			MOA-03.00.001		3'-0" wide, 18" thick Continuous Footing											
				03.10.02.18	Cast-In-Place Concrete, Continuous Footings, 18" thick											
					Fine grade, for slab on grade, by hand	6.00 sf	0	4	0	-	-	-	0.66 /sf	4	0.97 /sf	6
					Fill, gravel subbase, under building slab on grade	0.11 cy	0	5	3	-	-	-	73.24 /cy	8	108.74 /cy	12
					Concrete pumping, subcontract, all inclusive price	0.33 cy		-	-	8	-	-	25.00 /cy	8	36.49 /cy	12
					Forms in place, continuous footing, sides	6.00 sf	1	65	6	-	-	-	11.83 /sf	71	17.32 /sf	104
					Reinforcing in place, A615 Gr 60, priced per lbs.	41.67 lb		-	31	17	-	-	1.15 /lb	48	1.73 /lb	72
					Concrete, ready mix, 4500 psi	0.33 CY		-	73	-	-	-	220.00 /CY	73	336.61 /CY	112
					Add for concrete waste, 4500 psi	0.02 cy		-	4	-	-	-	220.00 /cy	4	336.47 /cy	6
					Placing concrete, concrete pump	0.33 cy	0	44	-	-	-	-	131.60 /cy	44	191.83 /cy	64
					Finishing footings, screed finish	6.00 sf	0	8	-	-	-	-	1.37 /sf	8	2.00 /sf	12
					Curing, membrane spray	6.00 sf	0	1	0	-	-	-	0.22 /sf	1	0.32 /sf	2
					03.10.02.18 Cast-In-Place Concrete, Continuous Footings, 18" thick	0.33 CY	1	127	118	25			809.97 /CY	270	1,206.16 /CY	402
					MOA-03.00.001 3'-0" wide, 18" thick Continuous Footing	0.33 CY	1	127	118	25			809.97 /CY	270	1,206.16 /CY	402
					03.13 Cast-In-Place Concrete, Continuous Footings	0.33 CY	1	127	118	25			809.97 /CY	270	1,206.16 /CY	402
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.003		3'-0" thick Mat Slab on Grade											
				03.10.05.66	Cast-In-Place Concrete, Slabs on Grade, 66" thick											
					Fine grade, for slab on grade, by hand	21,329.00 sf	149	13,495	640	-	-	-	0.66 /sf	14,135	0.97 /sf	20,648
					Fill, gravel subbase, under building slab on grade	1,579.93 cy	790	71,404	44,238	-	-	-	73.19 /cy	115,642	108.71 /cy	171,753
					Concrete pumping, subcontract, all inclusive price	2,369.89 cy		-	-	59,247	-	-	25.00 /cy	59,247	36.44 /cy	86,352
					Base slab edge forms, 36" to 48"	3,777.00 sf	944	102,301	5,099	-	-	-	28.44 /sf	107,400	41.54 /sf	156,903
					Base slab sump forms	64.00 sf	16	1,733	80	-	-	-	28.34 /sf	1,813	41.39 /sf	2,649
					Starter wall form	2,568.00 sf	385	41,733	2,568	-	-	-	17.25 /sf	44,301	25.22 /sf	64,754
					Keyway form	1,259.00 lf	189	20,460	630	-	-	-	16.75 /lf	21,090	24.45 /lf	30,783
					Expansion joint material, closed cell neoprene, 1"	16,500.00 sf	495	53,629	99,000	-	-	-	9.25 /sf	152,629	13.92 /sf	229,631
					Waterstop, hydro-flex	1,259.00 lf	6	682	5,036	-	-	-	4.54 /lf	5,718	6.91 /lf	8,699
					Concrete, ready mix, 4500 psi	2,369.89 CY		-	521,376	-	-	-	220.00 /CY	521,376	336.60 /CY	797,694
					Add for concrete waste, 4500 psi	118.49 cy		-	26,068	-	-	-	220.00 /cy	26,068	336.60 /cy	39,883
					Finishing floors, monolithic, trowel finish (machine)	21,329.00 sf	427	38,965	427	-	-	-	1.85 /sf	39,391	2.69 /sf	57,443
					Construction Joint Prep.	4,500.00 sf	360	32,540	225	-	-	-	7.28 /sf	32,765	10.62 /sf	47,771
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	2,000.00 lf		-	-	6,000	-	-	3.00 /lf	6,000	4.37 /lf	8,745
					Contraction Joint Option, Slabs, Preformed Joint	2,000.00 lf		-	4,000	-	-	-	2.00 /lf	4,000	3.06 /lf	6,120
					Curing, membrane spray	21,329.00 sf	43	3,856	853	-	-	-	0.22 /sf	4,709	0.32 /sf	6,925
					Perimeter insulation, polystyrene, 2" thick, R8	3,777.00 sf	45		2,191	-	-	-	0.58 /sf	2,191	0.89 /sf	3,352
					Polyethelene vapor barrier, 10 mil thick	213.29 sq	47	5,055	2,261	-	-	-	34.30 /sq	7,316	50.76 /sq	10,827
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	207.38 ton	3,318	388,222	311,070	-	-	-	3,372.03 /ton	699,292	5,023.42 /ton	1,041,757
					Reinforcing in place, unloading & sorting, add to above - slabs	207.38 ton	116	13,844	-	-	4,809	-	89.94 /ton	18,652	131.09 /ton	27,186
					Reinforcing steel, crane cost for handling, average, add	207.38 ton	126	15,048	-	-	5,227	-	97.76 /ton	20,274	142.49 /ton	29,550
					03.10.05.66 Cast-In-Place Concrete, Slabs on Grade, 66" thick	2,369.89 CY	7,457	802,967	1,025,760	65,247	10,035		803.42 /CY	1,904,010	1,202.34 /CY	2,849,424
					MOA-03.20.003 3'-0" thick Mat Slab on Grade	2,369.89 CY	7,457	802,967	1,025,760	65,247	10,035		803.42 /CY	1,904,010	1,202.34 /CY	2,849,424
			MOA-03.20.004		3'-0" thick Inclined Mat Slab on Grade											
				03.10.05.66	Cast-In-Place Concrete, Slabs on Grade, 66" thick											
					Fine grade, for slab on grade, by hand	12,759.00 sf	89	8,073	383	-	-	-	0.66 /sf	8,456	0.97 /sf	12,352
					Fill, gravel subbase, under building slab on grade	945.11 cy	473	42,714	26,463	-	-	-	73.19 /cy	69,177	108.71 /cy	102,743
					Concrete pumping, subcontract, all inclusive price	1,417.67 cy		-	-	35,442	-	-	25.00 /cy	35,442	36.44 /cy	51,656
					Base slab edge forms, 36" to 48"	1,926.00 sf	482	52,166	2,600	-	-	-	28.44 /sf	54,766	41.54 /sf	80,009
					Starter wall form	1,284.00 sf	193	20,866	1,284	-	-	-	17.25 /sf	22,150	25.22 /sf	32,377
					Keyway form	642.00 lf	96	10,433	321	-	-	-	16.75 /lf	10,754	24.45 /lf	15,697
					Expansion joint material, closed cell neoprene, 1"	3,531.00 sf	106	11,477	21,186	-	-	-	9.25 /sf	32,663	13.92 /sf	49,141
					Waterstop, PVC, center bulb, 9" wide	642.00 lf	51	5,564	1,926	-	-	-	11.67 /lf	7,490	17.22 /lf	11,057

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.66	**Cast-In-Place Concrete, Slabs on Grade, 66" thick**											
					Concrete, ready mix, 4500 psi	1,417.67 CY		-	311,887	-	-	-	220.00 /CY	311,887	336.60 /CY	477,181
					Add for concrete waste, 4500 psi	70.88 cy		-	15,594	-	-	-	220.00 /cy	15,594	336.60 /cy	23,858
					Finishing floors, monolithic, trowel finish (machine)	12,759.00 sf	255	23,309	255	-	-	-	1.85 /sf	23,564	2.69 /sf	34,362
					Construction Joint Prep.	1,926.00 sf	154	13,927	96	-	-	-	7.28 /sf	14,023	10.62 /sf	20,446
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	642.00 lf		-	-	1,926	-	-	3.00 /lf	1,926	4.37 /lf	2,807
					Contraction Joint Option, Slabs, Preformed Joint	642.00 lf		-	1,284	-	-	-	2.00 /lf	1,284	3.06 /lf	1,965
					Curing, membrane spray	12,759.00 sf	26	2,307	510	-	-	-	0.22 /sf	2,817	0.32 /sf	4,143
					Perimeter insulation, polystyrene, 2" thick, R8	3,531.00 sf	42		2,048	-	-	-	0.58 /sf	2,048	0.89 /sf	3,133
					Polyethelene vapor barrier, 10 mil thick	127.59 sq	28	3,024	1,352	-	-	-	34.30 /sq	4,377	50.76 /sq	6,477
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	124.09 ton	1,985	232,300	186,135	-	-	-	3,372.03 /ton	418,435	5,023.42 /ton	623,356
					Reinforcing in place, unloading & sorting, add to above - slabs	124.09 ton	69	8,284	-	-	2,877	-	89.94 /ton	11,161	131.09 /ton	16,267
					Reinforcing steel, crane cost for handling, average, add	124.09 ton	76	9,004	-	-	3,128	-	97.76 /ton	12,132	142.49 /ton	17,682
					03.10.05.66 Cast-In-Place Concrete, Slabs on Grade, 66" thick	**1,417.67 CY**	**4,125**	**443,448**	**573,325**	**37,368**	**6,005**		**747.81 /CY**	**1,060,146**	**1,119.24 /CY**	**1,586,708**
					MOA-03.20.004 3'-0" thick Inclined Mat Slab on Grade	**1,417.67 CY**	**4,125**	**443,448**	**573,325**	**37,368**	**6,005**		**747.81 /CY**	**1,060,146**	**1,119.24 /CY**	**1,586,708**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**3,787.56 CY**	**11,582**	**1,246,415**	**1,599,085**	**102,615**	**16,040**		**782.60 /CY**	**2,964,156**	**1,171.24 /CY**	**4,436,131**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			MOA-03.25.001		**2'-0" thick CIP Exterior Wall - 38'-0" high**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	760.00 cy		-	-	19,000	-	-	25.00 /cy	19,000	36.44 /cy	27,692
					Forms in place, structural walls, > 16' high, hand set	20,520.00 sf	3,488	377,937	27,702	-	-	-	19.77 /sf	405,639	28.91 /sf	593,219
					Add labor for setting embedded frames	6,336.00 lf	6,336	686,449	-	-	-	-	108.34 /lf	686,449	157.90 /lf	1,000,485
					Form Pipe Penetrations, 4" - 8"	1.00 ea	2	217	-	-	-	-	216.68 /ea	217	315.80 /ea	316
					Form Pipe Penetrations, 10" - 14"	1.00 ea	4	379	-	-	-	-	379.19 /ea	379	552.67 /ea	553
					Form Pipe Penetrations, 16" - 18"	1.00 ea	5	488	-	-	-	-	487.53 /ea	488	710.57 /ea	711
					Form Pipe Penetrations, 20" - 24"	1.00 ea	6	596	-	-	-	-	595.88 /ea	596	868.47 /ea	868
					Form Pipe Penetrations, 30" - 36"	1.00 ea	12	1,300	-	-	-	-	1,300.09 /ea	1,300	1,894.86 /ea	1,895
					Form Pipe Penetrations, 42" - 54"	1.00 ea	16	1,733	-	-	-	-	1,733.46 /ea	1,733	2,526.48 /ea	2,526
					Form Pipe Penetrations, 60" and greater	5.00 ea	120	13,001	-	-	-	-	2,600.18 /ea	13,001	3,789.72 /ea	18,949
					Expansion joint material, closed cell neoprene, 1"	1,520.00 sf	46	4,940	9,120	-	-	-	9.25 /sf	14,060	13.92 /sf	21,154
					Waterstop, hydro-flex	270.00 lf	1	146	1,080	-	-	-	4.54 /lf	1,226	6.91 /lf	1,866
					Concrete, ready mix, 4500 psi	760.00 CY		-	167,200	-	-	-	220.00 /CY	167,200	336.60 /CY	255,813
					Add for concrete waste, 4500 psi	38.00 cy		-	8,360	-	-	-	220.00 /cy	8,360	336.60 /cy	12,791
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	760.00 cy	839	75,830	-	-	-	-	99.78 /cy	75,830	145.42 /cy	110,521
					Patch & plug tieholes	20,520.00 sf	308	27,822	410	-	-	-	1.38 /sf	28,232	2.01 /sf	41,178
					Sack rub	20,520.00 sf	821	74,191	616	-	-	-	3.65 /sf	74,807	5.32 /sf	109,074
					Construction Joint Prep.	1,520.00 sf	122	10,991	76	-	-	-	7.28 /sf	11,067	10.62 /sf	16,136
					Curing, membrane spray	20,520.00 sf	41	3,710	821	-	-	-	0.22 /sf	4,530	0.32 /sf	6,662
					Below grade dampproofing, Bituminous Asphalt	10,260.00 sf		-	10,260	-	-	-	1.00 /sf	10,260	1.53 /sf	15,698
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	66.50 ton	1,064	124,490	99,750	-	-	-	3,372.03 /ton	224,240	5,023.42 /ton	334,057
					Reinforcing in place, unloading & sorting, add to above - slabs	66.50 ton	37	4,439	-	-	1,542	-	89.94 /ton	5,981	131.09 /ton	8,718
					Reinforcing steel, crane cost for handling, average, add	66.50 ton	40	4,825	-	-	1,676	-	97.76 /ton	6,501	142.49 /ton	9,476
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**760.00 CY**	**13,307**	**1,413,484**	**325,395**	**19,000**	**3,218**		**2,317.23 /CY**	**1,761,097**	**3,408.36 /CY**	**2,590,355**
					MOA-03.25.001 2'-0" thick CIP Exterior Wall - 38'-0" high	**760.00 CY**	**13,307**	**1,413,484**	**325,395**	**19,000**	**3,218**		**2,317.23 /CY**	**1,761,097**	**3,408.36 /CY**	**2,590,355**
			MOA-03.25.002		**4'-8" thick CIP Exterior Wall - 41'-0" high**											
				03.10.00.54	**Concrete, Cast-in-Place, Grade Walls, 54" Thick**											
					Concrete pumping, subcontract, all inclusive price	3,390.00 cy		-	-	84,750	-	-	25.00 /cy	84,750	36.44 /cy	123,521
					Forms in place, structural walls, > 16' high, hand set	40,672.00 sf	6,914	749,096	54,907	-	-	-	19.77 /sf	804,003	28.91 /sf	1,175,799
					Add labor for setting embedded frames	6,336.00 lf	6,336	686,449	-	-	-	-	108.34 /lf	686,449	157.90 /lf	1,000,485
					Form Pipe Penetrations, 4" - 8"	1.00 ea	2	217	-	-	-	-	216.68 /ea	217	315.82 /ea	316
					Form Pipe Penetrations, 10" - 14"	1.00 ea	4	379	-	-	-	-	379.19 /ea	379	552.67 /ea	553
					Form Pipe Penetrations, 16" - 18"	1.00 ea	5	488	-	-	-	-	487.53 /ea	488	710.56 /ea	711
					Form Pipe Penetrations, 20" - 24"	1.00 ea	6	596	-	-	-	-	595.88 /ea	596	868.48 /ea	868
					Form Pipe Penetrations, 30" - 36"	1.00 ea	12	1,300	-	-	-	-	1,300.09 /ea	1,300	1,894.86 /ea	1,895
					Form Pipe Penetrations, 42" - 54"	1.00 ea	16	1,733	-	-	-	-	1,733.46 /ea	1,733	2,526.48 /ea	2,526
					Form Pipe Penetrations, 60" and greater	5.00 ea	120	13,001	-	-	-	-	2,600.18 /ea	13,001	3,789.72 /ea	18,949
					Expansion joint material, closed cell neoprene, 1"	9,225.00 sf	277	29,983	55,350	-	-	-	9.25 /sf	85,333	13.92 /sf	128,385
					Waterstop, PVC, center bulb, 9" wide	496.00 lf	40	4,299	1,488	-	-	-	11.67 /lf	5,787	17.22 /lf	8,542
					Concrete, ready mix, 4500 psi	3,390.00 CY		-	745,800	-	-	-	220.00 /CY	745,800	336.60 /CY	1,141,059
					Add for concrete waste, 4500 psi	102.00 cy		-	22,440	-	-	-	220.00 /cy	22,440	336.60 /cy	34,333
					Placing concrete, concrete pump, for structural wall >24" thick	3,390.00 cy	3,742	338,242	-	-	-	-	99.78 /cy	338,242	145.42 /cy	492,981
					Patch & plug tieholes	40,672.00 sf	610	55,145	813	-	-	-	1.38 /sf	55,958	2.01 /sf	81,617
					Sack rub	40,672.00 sf	1,627	147,052	1,220	-	-	-	3.65 /sf	148,272	5.32 /sf	216,192
					Construction Joint Prep.	9,225.00 sf	738	66,707	461	-	-	-	7.28 /sf	67,168	10.62 /sf	97,930
					Curing, membrane spray	40,672.00 sf	81	7,353	1,627	-	-	-	0.22 /sf	8,979	0.32 /sf	13,205
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	305.10 ton	4,882	571,157	457,650	-	-	-	3,372.03 /ton	1,028,807	5,023.42 /ton	1,532,645
					Reinforcing in place, unloading & sorting, add to above - slabs	305.10 ton	171	20,367	-	-	7,074	-	89.94 /ton	27,442	131.09 /ton	39,996
					Reinforcing steel, crane cost for handling, average, add	305.10 ton	186	22,138	-	-	7,690	-	97.76 /ton	29,828	142.49 /ton	43,474
					03.10.00.54 Concrete, Cast-in-Place, Grade Walls, 54" Thick	**3,390.00 CY**	**25,767**	**2,715,701**	**1,341,757**	**84,750**	**14,764**		**1,226.25 /CY**	**4,156,972**	**1,815.92 /CY**	**6,155,980**
					MOA-03.25.002 4'-8" thick CIP Exterior Wall - 41'-0" high	**3,390.00 CY**	**25,767**	**2,715,701**	**1,341,757**	**84,750**	**14,764**		**1,226.25 /CY**	**4,156,972**	**1,815.92 /CY**	**6,155,980**
			MOA-03.25.003		**1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.18	**Concrete, Cast-in-Place, Grade Walls, 18" Wide**											
					Concrete pumping, subcontract, all inclusive price	670.00 cy		-	-	16,750	-	-	25.00 /cy	16,750	36.44 /cy	24,413
					Forms in place, structural walls, > 16' high, hand set	24,108.00 sf	4,098	444,020	32,546	-	-	-	19.77 /sf	476,566	28.91 /sf	696,945
					Concrete, ready mix, 4500 psi	670.00 CY		-	147,400	-	-	-	220.00 /CY	147,400	336.60 /CY	225,519
					Add for concrete waste, 4500 psi	21.00 cy		-	4,620	-	-	-	220.00 /cy	4,620	336.60 /cy	7,069
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	670.00 cy	740	66,850	-	-	-	-	99.78 /cy	66,850	145.42 /cy	97,433
					Patch & plug tieholes	24,108.00 sf	362	32,686	482	-	-	-	1.38 /sf	33,169	2.01 /sf	48,378
					Stone rub	24,108.00 sf	1,205	108,955	723	-	-	-	4.55 /sf	109,678	6.63 /sf	159,906
					Curing, membrane spray	24,108.00 sf	48	4,358	964	-	-	-	0.22 /sf	5,323	0.32 /sf	7,827
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	58.70 ton	939	109,888	88,050	-	-	-	3,372.03 /ton	197,938	5,023.42 /ton	294,875

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.00.18	Concrete, Cast-in-Place, Grade Walls, 18" Wide											
					Reinforcing in place, unloading & sorting, add to above - slabs	58.70 ton	33	3,919	-	-	1,361	-	89.94 /ton	5,280	131.09 /ton	7,695
					Reinforcing steel, crane cost for handling, average, add	58.70 ton	36	4,259	-	-	1,479	-	97.76 /ton	5,739	142.49 /ton	8,364
					03.10.00.18 Concrete, Cast-in-Place, Grade Walls, 18" Wide	**670.00 CY**	**7,461**	**774,936**	**274,786**	**16,750**	**2,841**		**1,595.99 /CY**	**1,069,312**	**2,355.86 /CY**	**1,578,423**
					MOA-03.25.003 1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay	**670.00 CY**	**7,461**	**774,936**	**274,786**	**16,750**	**2,841**		**1,595.99 /CY**	**1,069,312**	**2,355.86 /CY**	**1,578,423**
			MOA-03.25.004		**2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.24	Concrete, Cast-in-Place, Grade Walls, 24" Thick											
					Concrete pumping, subcontract, all inclusive price	1,354.52 cy		-	-	33,863	-	-	25.00 /cy	33,863	36.44 /cy	49,355
					Forms in place, structural walls, > 16' high, hand set	36,572.00 sf	6,217	673,582	49,372	-	-	-	19.77 /sf	722,954	28.91 /sf	1,057,271
					Concrete, ready mix, 4500 psi	1,355.00 CY		-	298,100	-	-	-	220.00 /CY	298,100	336.60 /CY	456,087
					Add for concrete waste, 4500 psi	41.00 cy		-	9,020	-	-	-	220.00 /cy	9,020	336.60 /cy	13,800
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	1,354.52 cy	1,495	135,149	-	-	-	-	99.78 /cy	135,149	145.42 /cy	196,977
					Patch & plug tieholes	36,572.00 sf	549	49,586	731	-	-	-	1.38 /sf	50,317	2.01 /sf	73,389
					Stone rub	36,572.00 sf	1,829	165,285	1,097	-	-	-	4.55 /sf	166,382	6.63 /sf	242,579
					Curing, membrane spray	36,572.00 sf	73	6,611	1,463	-	-	-	0.22 /sf	8,074	0.32 /sf	11,874
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	118.60 ton	1,898	222,023	177,900	-	-	-	3,372.03 /ton	399,923	5,023.42 /ton	595,777
					Reinforcing in place, unloading & sorting, add to above - slabs	118.60 ton	66	7,917	-	-	2,750	-	89.94 /ton	10,667	131.09 /ton	15,547
					Reinforcing steel, crane cost for handling, average, add	118.60 ton	72	8,606	-	-	2,989	-	97.76 /ton	11,595	142.49 /ton	16,899
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**1,355.00 CY**	**12,199**	**1,268,759**	**537,684**	**33,863**	**5,739**		**1,362.39 /CY**	**1,846,045**	**2,014.43 /CY**	**2,729,556**
					MOA-03.25.004 2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay	**1,355.00 CY**	**12,199**	**1,268,759**	**537,684**	**33,863**	**5,739**		**1,362.39 /CY**	**1,846,045**	**2,014.43 /CY**	**2,729,556**
			MOA-03.25.005		**6" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.06	Concrete, Cast-in-Place, Grade Walls, 6" Wide											
					Concrete pumping, subcontract, all inclusive price	136.00 cy		-	-	3,400	-	-	25.00 /cy	3,400	36.44 /cy	4,955
					Forms in place, structural walls, > 16' high, hand set	14,596.00 sf	2,481	268,829	19,705	-	-	-	19.77 /sf	288,533	28.91 /sf	421,960
					Concrete, ready mix, 4500 psi	136.00 CY		-	29,920	-	-	-	220.00 /CY	29,920	336.60 /CY	45,777
					Add for concrete waste, 4500 psi	5.00 cy		-	1,100	-	-	-	220.00 /cy	1,100	336.60 /cy	1,683
					Placing concrete, concrete pump, for structural wall to 12" thick	136.00 cy	164	14,799	-	-	-	-	108.81 /cy	14,799	158.59 /cy	21,569
					Patch & plug tieholes	14,596.00 sf	219	19,790	292	-	-	-	1.38 /sf	20,082	2.01 /sf	29,290
					Stone rub	14,596.00 sf	730	65,966	438	-	-	-	4.55 /sf	66,404	6.63 /sf	96,814
					Curing, membrane spray	14,596.00 sf	29	2,639	584	-	-	-	0.22 /sf	3,222	0.32 /sf	4,739
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	12.00 ton	192	22,464	18,000	-	-	-	3,372.03 /ton	40,464	5,023.42 /ton	60,281
					Reinforcing in place, unloading & sorting, add to above - slabs	12.00 ton	7	801	-	-	278	-	89.94 /ton	1,079	131.09 /ton	1,573
					Reinforcing steel, crane cost for handling, average, add	12.00 ton	7	871	-	-	302	-	97.76 /ton	1,173	142.49 /ton	1,710
					03.10.00.06 Concrete, Cast-in-Place, Grade Walls, 6" Wide	**136.00 CY**	**3,829**	**396,158**	**70,038**	**3,400**	**581**		**3,457.18 /CY**	**470,177**	**5,076.11 /CY**	**690,351**
					MOA-03.25.005 6" thick CIP Interior Wall - 41'-0" high - Intake Bay	**136.00 CY**	**3,829**	**396,158**	**70,038**	**3,400**	**581**		**3,457.18 /CY**	**470,177**	**5,076.11 /CY**	**690,351**
			MOA-03.25.006		**3'-0" thick CIP Interior Wall - 41'-0" high**											
				03.10.00.36	Concrete, Cast-in-Place, Grade Walls, 36" Wide											
					Concrete pumping, subcontract, all inclusive price	5,622.00 cy		-	-	140,550	-	-	25.00 /cy	140,550	36.44 /cy	204,849
					Forms in place, structural walls, > 16' high, hand set	101,188.00 sf	17,202	1,863,678	136,604	-	-	-	19.77 /sf	2,000,281	28.91 /sf	2,925,274
					Concrete, ready mix, 4500 psi	5,622.00 CY		-	1,236,840	-	-	-	220.00 /CY	1,236,840	336.60 /CY	1,892,340
					Add for concrete waste, 4500 psi	170.00 cy		-	37,400	-	-	-	220.00 /cy	37,400	336.60 /cy	57,221
					Placing concrete, concrete pump, for structural wall >24" thick	5,622.00 cy	6,206	560,943	-	-	-	-	99.78 /cy	560,943	145.42 /cy	817,563
					Patch & plug tieholes	101,188.00 sf	1,518	137,194	2,024	-	-	-	1.38 /sf	139,218	2.01 /sf	203,054
					Stone rub	101,188.00 sf	5,059	457,314	3,036	-	-	-	4.55 /sf	460,350	6.63 /sf	671,171
					Curing, membrane spray	101,188.00 sf	202	18,293	4,048	-	-	-	0.22 /sf	22,340	0.32 /sf	32,854
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	492.00 ton	7,872	921,040	738,000	-	-	-	3,372.03 /ton	1,659,040	5,023.42 /ton	2,471,522
					Reinforcing in place, unloading & sorting, add to above - slabs	492.00 ton	276	32,844	-	-	11,408	-	89.94 /ton	44,252	131.09 /ton	64,497
					Reinforcing steel, crane cost for handling, average, add	492.00 ton	299	35,700	-	-	12,400	-	97.76 /ton	48,100	142.49 /ton	70,105
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**5,622.00 CY**	**38,634**	**4,027,005**	**2,157,951**	**140,550**	**23,808**		**1,129.37 /CY**	**6,349,314**	**1,673.86 /CY**	**9,410,449**
					MOA-03.25.006 3'-0" thick CIP Interior Wall - 41'-0" high	**5,622.00 CY**	**38,634**	**4,027,005**	**2,157,951**	**140,550**	**23,808**		**1,129.37 /CY**	**6,349,314**	**1,673.86 /CY**	**9,410,449**
					03.20 Cast-In-Place Concrete, Straight Walls	**11,933.00 CY**	**101,197**	**10,596,043**	**4,707,610**	**298,313**	**50,951**		**1,311.73 /CY**	**15,652,917**	**1,940.43 /CY**	**23,155,114**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.001		**4" thick CIP Concrete Roof Deck**											
				03.10.11.48	Cast-In-Place Concrete, Elevated Deck, 48"											
					Concrete pumping, subcontract, all inclusive price	4,327.00 cy		-	-	108,175	-	-	25.00 /cy	108,175	36.44 /cy	157,663
					Forms in place, elevated slab, soffit	29,202.00 sf	5,840	632,755	36,503	-	-	-	22.92 /sf	669,257	33.49 /sf	978,075
					Forms in place, elevated slab, edge form	3,024.00 sf	756	81,906	3,780	-	-	-	28.34 /sf	85,686	41.39 /sf	125,159
					Slab shoring	1,197,282.00 cf	8,381	908,003	59,864	-	-	-	0.81 /cf	967,867	1.18 /cf	1,414,987
					Concrete, ready mix, 4500 psi	4,327.00 CY		-	951,940	-	-	-	220.00 /CY	951,940	336.60 /CY	1,456,449
					Add for concrete waste, 4500 psi	130.00 cy		-	28,600	-	-	-	220.00 /cy	28,600	336.60 /cy	43,757
					Placing concrete, concrete pump, for elevated slab over 12" thick	4,327.00 cy	4,244	383,632	-	-	-	-	88.66 /cy	383,632	129.22 /cy	559,135
					Curing, membrane spray	29,202.00 sf	58	5,279	1,168	-	-	-	0.22 /sf	6,447	0.32 /sf	9,481
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	379.00 ton	6,064	709,500	568,500	-	-	-	3,372.03 /ton	1,278,000	5,023.42 /ton	1,903,876
					Reinforcing in place, unloading & sorting, add to above - slabs	379.00 ton	212	25,300	-	-	8,788	-	89.94 /ton	34,089	131.09 /ton	49,683
					Reinforcing steel, crane cost for handling, average, add	379.00 ton	231	27,501	-	-	9,552	-	97.76 /ton	37,053	142.49 /ton	54,004
					Concrt frshng,floors,basic frshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	29,202.00 sf	379	34,560	-	-	-	-	1.18 /sf	34,560	1.72 /sf	50,371
					03.10.11.48 Cast-In-Place Concrete, Elevated Deck, 48"	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,572.14 /CY**	**6,802,641**
					MOA-03.30.001 4" thick CIP Concrete Roof Deck	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,572.14 /CY**	**6,802,641**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,572.14 /CY**	**6,802,641**
					03.0 Concrete Work	**20,047.89 CY**	**138,946**	**14,651,021**	**7,957,168**	**509,128**	**85,332**		**1,157.36 /CY**	**23,202,648**	**1,715.61 /CY**	**34,394,288**
	04.0				**Masonry - Architectural**											
		04.21			**Concrete Unit Masonry - Exterior**											
			MOA-04.21.001		**8" thick Exterior CMU Wall**											
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Grout, door frames, 3' x 7' opening, 2.5 C.F. per opening	12.00 opng	6	681	177	-	32	-	74.19 /opng	890	105.49 /opng	1,266
					Grout, door frames, 6' x 7' opening, 3.5 C.F. per opening	2.00 opng	1	151	41	-	7	-	99.76 /opng	200	141.89 /opng	284
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	4,541.39 cf	415	44,179	26,794	-	2,097	-	16.09 /cf	73,071	23.07 /cf	104,788
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	3,368.86 lb	60	6,178	1,348	-	-	-	2.23 /lb	7,526	3.17 /lb	10,690

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	2,477.10 lb	57	5,840	1,759	-	-	-	3.07 /lb	7,599	4.37 /lb	10,822
					Allow - shoring and bracing at CMU walls (percentage wall area)	2,972.53 sfwa	34	3,702	535	-	-	-	1.43 /sfwa	4,237	2.02 /sfwa	6,002
					Control joint, PVC, cross-shaped for CMU units	1,200.00 lf	34	3,536	2,940	-	-	-	5.40 /lf	6,476	7.77 /lf	9,328
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	9,908.42 SF	1,321	134,321	57,469	-	-	-	19.36 /SF	191,790	27.66 /SF	274,107
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	1,073.00 lf	229	23,189	7,726	-	-	-	28.81 /lf	30,915	41.07 /lf	44,072
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	200.00 lf	53	6,680	630	-	333	-	38.22 /lf	7,644	54.02 /lf	10,804
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	32.00 lf	14	1,749	251	-	87	-	65.23 /lf	2,088	92.39 /lf	2,956
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.27 mbf	8	913	314	-	-	-	4,593.00 /mbf	1,226	6,549.78 /mbf	1,749
					Silicone water repellants, sprayed on CMU, 2 coat	19,816.83 sf	53	5,451	24,573	-	-	-	1.52 /sf	30,024	2.22 /sf	44,040
					Reglet, zinc and copper alloy, 20 ounce	3,000.00 lf	107	11,623	8,610	-	-	-	6.74 /lf	20,233	9.70 /lf	29,101
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	3,000.00 lf	160	19,497	15,750	-	-	-	11.75 /lf	35,247	16.92 /lf	50,751
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	1,200.00 lf	35	3,601	828	-	-	-	3.69 /lf	4,429	5.24 /lf	6,293
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**9,908.42 SF**	**2,588**	**271,291**	**149,744**		**2,558**		**42.75 /SF**	**423,592**	**61.27 /SF**	**607,054**
					MOA-04.21.001 8" thick Exterior CMU Wall	**9,908.42 SF**	**2,588**	**271,291**	**149,744**		**2,558**		**42.75 /SF**	**423,592**	**61.27 /SF**	**607,054**
			MOA-04.21.002		**8" thick Exterior CMU Wall - uninsulated**											
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	664.00 cf	61	6,459	3,918	-	307	-	16.09 /cf	10,684	23.07 /cf	15,321
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	903.04 lb	16	1,656	361	-	-	-	2.23 /lb	2,017	3.17 /lb	2,865
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	664.00 lb	15	1,565	471	-	-	-	3.07 /lb	2,037	4.37 /lb	2,901
					Masonry reinforcing bars, truss type steel joint reinforcing, mill standard galvanized, 12" wide	19.92 clf	8	822	488	-	-	-	65.76 /clf	1,310	94.33 /clf	1,879
					Allow - shoring and bracing at CMU walls (percentage wall area)	796.80 sfwa	9	992	143	-	-	-	1.43 /sfwa	1,136	2.02 /sfwa	1,609
					Control joint, PVC, cross-shaped for CMU units	450.00 lf	13	1,326	1,103	-	-	-	5.40 /lf	2,429	7.77 /lf	3,498
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	2,656.00 SF	354	36,005	15,405	-	-	-	19.36 /SF	51,410	27.66 /SF	73,476
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	664.00 lf	142	14,350	4,781	-	-	-	28.81 /lf	19,131	41.07 /lf	27,273
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	150.00 lf	40	5,010	473	-	250	-	38.22 /lf	5,733	54.02 /lf	8,103
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.20 mbf	6	684	235	-	-	-	4,593.00 /mbf	919	6,549.80 /mbf	1,310
					Silicone water repellants, sprayed on CMU, 2 coat	5,312.00 sf	14	1,461	6,587	-	-	-	1.52 /sf	8,048	2.22 /sf	11,805
					Reglet, zinc and copper alloy, 20 ounce	150.00 lf	5	581	431	-	-	-	6.74 /lf	1,012	9.70 /lf	1,455
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	150.00 lf	8	975	788	-	-	-	11.75 /lf	1,762	16.92 /lf	2,538
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	450.00 lf	13	1,350	311	-	-	-	3.69 /lf	1,661	5.24 /lf	2,360
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**2,656.00 SF**	**705**	**73,238**	**35,493**		**557**		**41.15 /SF**	**109,287**	**58.88 /SF**	**156,393**
					MOA-04.21.002 8" thick Exterior CMU Wall - uninsulated	**2,656.00 SF**	**705**	**73,238**	**35,493**		**557**		**41.15 /SF**	**109,287**	**58.88 /SF**	**156,393**
					04.21 Concrete Unit Masonry - Exterior	**12,564.42 SF**	**3,292**	**344,528**	**185,236**		**3,115**		**42.41 /SF**	**532,879**	**60.76 /SF**	**763,447**
		04.23			**Concrete Unit Masonry - Interior**											
			MOA-04.23.001		**8" thick Interior CMU Wall**											
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Structural concrete,ready mix,normal weight,1:2 mix topping,includes sand,portland cement and water,delivered,excludes all additives and treatments	2.00 cy		-	440	-	-	-	220.00 /cy	440	325.60 /cy	651
					Grouting, interior door frame, average 3.0 cf/opening (single & pair)	3.00 opng	2	227	62	-	11	-	99.76 /opng	299	141.89 /opng	426
					Grout, C476. interior CMU cells/cores, bond beams and lintels	378.97 cf	35	3,687	2,236	-	175	-	16.09 /cf	6,098	23.07 /cf	8,744
					Reinforcing, steel bars A615, average #4 bar, interior CMU	894.38 lb	16	1,640	635	-	-	-	2.54 /lb	2,275	3.63 /lb	3,248
					Joint reinforcing, regular truss, to 12" wide, mill galv, interior CMU	11.90 clf	5	491	292	-	-	-	65.76 /clf	783	94.33 /clf	1,123
					Control joint, average cost, interior or core CMU walls	120.00 lf	2	248	600	-	-	-	7.06 /lf	848	10.30 /lf	1,236
					Glazed CMU, unreinforced, hollow, single face, 8x16x8 - Interior	1,515.89 SF	196	19,887	10,763	-	-	-	20.22 /SF	30,649	28.97 /SF	43,919
					Angle framing, structural steel, 2-1/2"x2-1/2"x1/4", field fabricated, incl cutting & welding	120.00 lf	40	5,010	486	-	250	-	47.89 /lf	5,746	67.69 /lf	8,123
					Lightweight framing, channel, field fab, avg. 8 lbs/lf	60.00 lb	3	361	59	-	18	-	7.30 /lb	438	10.35 /lb	621
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 6"	0.12 mbf	5	523	189	-	-	-	5,932.90 /mbf	712	8,464.75 /mbf	1,016
					Caulking and sealants, butyl based, bulk, in place, 154 LF per gallon, 1/4" x 1/2"	120.00 lf	3	344	42	-	-	-	3.22 /lf	386	4.55 /lf	546
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**1,515.89 SF**	**306**	**32,416**	**15,803**		**454**		**32.11 /SF**	**48,673**	**45.95 /SF**	**69,653**
					MOA-04.23.001 8" thick Interior CMU Wall	**1,515.89 SF**	**306**	**32,416**	**15,803**		**454**		**32.11 /SF**	**48,673**	**45.95 /SF**	**69,653**
					04.23 Concrete Unit Masonry - Interior	**1,515.89 SF**	**306**	**32,416**	**15,803**		**454**		**32.11 /SF**	**48,673**	**45.95 /SF**	**69,653**
					04.0 Masonry - Architectural	**14,080.31 SF**	**3,599**	**376,945**	**201,040**		**3,568**		**41.30 /SF**	**581,553**	**59.17 /SF**	**833,099**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.004		**Metal Grating**											
				05.50.05.00	Metals, Gratings											
					Floor grating, steel, galvy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	1,138.00 SF	236	29,378	60,314	-	20,273	-	96.63 /SF	109,965	139.85 /SF	159,146
					05.50.05.00 Metals, Gratings	**1,138.00 SF**	**236**	**29,378**	**60,314**		**20,273**		**96.63 /SF**	**109,965**	**139.85 /SF**	**159,146**
					05.00.004 Metal Grating	**1,138.00 SF**	**236**	**29,378**	**60,314**		**20,273**		**96.63 /SF**	**109,965**	**139.85 /SF**	**159,146**
			05.00.010		**Trash Racks**											
				05.00.99.00	Metals, Other											
					WF (or HP/S) trash rack beams, A36, avg cost/ton, moment/non-moment	22.20 ton	480	59,781	48,840	-	12,174	-	5,441.18 /ton	120,794	7,817.86 /ton	173,556
					1/2" x 4" Epoxy Coated Trash Rack Bars	16,800.00 lf	1,344	167,925	252,000	-	6,303	-	25.37 /lf	426,228	36.80 /lf	618,177
					Touchup Epoxy Coating	144.00 ea	2,304	285,737	288,000	-	74,880	-	4,504.29 /ea	648,617	6,484.69 /ea	933,796
					Miscellaneous Items and Consumables Allowance	1.00 ls		20,000	30,000	-	10,000	-	60,000.00 /ls	60,000	86,623.81 /ls	86,624
					05.00.99.00 Metals, Other	***1.00* LS**	**4,128**	**533,443**	**618,840**		**103,356**		**1,255,639.50 /LS**	**1,255,640**	**1,812,153.24 /LS**	**1,812,153**
					05.00.010 Trash Racks	***1.00* LS**	**4,128**	**533,443**	**618,840**		**103,356**		**1,255,639.50 /LS**	**1,255,640**	**1,812,153.24 /LS**	**1,812,153**
			MOA-05.20.001		**Steel Platform**											
				05.10.01.00	Metals, Structural Steel											
					Lightweight framing, for steel platform channel, field fab, C8 x 11.5	36.00 TON	927	116,299	162,000	-	67,067	-	9,593.50 /TON	345,366	13,828.90 /TON	497,841
					Avg cost, grout base plates, non-shrink, non-metallic, to 2" deep	192.00 sf	61	5,612	3,514	-	-	-	47.53 /sf	9,126	68.22 /sf	13,099
					Miscellaneous Items and Consumables Allowance	1.00 ls		12,000	18,000	-	5,000	-	35,000.00 /ls	35,000	50,566.79 /ls	50,567
					05.10.01.00 Metals, Structural Steel	**36.00 TON**	**989**	**133,911**	**183,514**		**72,067**		**10,819.21 /TON**	**389,492**	**15,597.40 /TON**	**561,506**
				05.50.03.20	Metal Ladders, Steel w/o Cage											
					Ladder, steel, bolted to concrete, without cage	144.00 LF	58	7,054	4,320	-	-	-	78.98 /LF	11,374	113.34 /LF	16,321
					05.50.03.20 Metal Ladders, Steel w/o Cage	**144.00 LF**	**58**	**7,054**	**4,320**				**78.98 /LF**	**11,374**	**113.34 /LF**	**16,321**
				05.50.04.20	Metals, Handrailing											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				05.50.04.20	Metals, Handrailing											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	724.00 LF	145	18,092	45,250	-	679	-	88.43 /LF	64,021	128.99 /LF	93,389
					24" Self Closing Gate	6.00 ea	48	5,997	4,500	-	225	-	1,787.07 /ea	10,722	2,569.64 /ea	15,418
					05.50.04.20 Metals, Handrailing	724.00 LF	193	24,089	49,750		904		103.24 /LF	74,743	150.29 /LF	108,807
				05.50.05.00	Metals, Gratings											
					Floor grating, aluminum, 1 1/2" x 1/8" x 2"	2,730.00 SF	191	23,402	54,600	-	-	-	28.57 /SF	78,002	41.66 /SF	113,745
					Grating frame, aluminum, 1 1/2" to 2" deep	724.00 lf	101	12,412	8,688	-	-	-	29.14 /lf	21,100	41.89 /lf	30,328
					05.50.05.00 Metals, Gratings	2,730.00 SF	292	35,814	63,288				36.30 /SF	99,102	52.77 /SF	144,073
				05.50.05.20	Metals, Floor Hatches											
					Doors, specialty, access, floor, industrial, aluminum, 150 psf L.L., double leaf, 6' x 8', 442 lb	10.00 EA	80	9,921	85,000	-	2,680	-	9,760.14 /EA	97,601	14,353.46 /EA	143,535
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	6,000	-	2,000	-	12,000.00 /ls	12,000	17,324.76 /ls	17,325
					05.50.05.20 Metals, Floor Hatches	10.00 EA	80	13,921	91,000		4,680		10,960.14 /EA	109,601	16,085.93 /EA	160,859
				05.50.99.00	Ladder Fall Protection											
					Ladder fall protection device	144.00 LF	36	4,409	3,600	-	-	-	55.61 /LF	8,009	80.09 /LF	11,533
					05.50.99.00 Ladder Fall Protection	144.00 LF	36	4,409	3,600				55.61 /LF	8,009	80.09 /LF	11,533
					MOA-05.20.001 Steel Platform	***1.00*** **LS**	**1,647**	**219,198**	**395,472**		**77,651**		**692,320.85 /LS**	**692,321**	**1,003,099.35 /LS**	**1,003,099**
					05.00 Metals	***1.00*** LS	6,012	782,020	1,074,626		201,280		2,057,925.30 /LS	2,057,925	2,974,398.81 /LS	2,974,399
					05.0 Metals	***1.00*** LS	6,012	782,020	1,074,626		201,280		2,057,925.30 /LS	2,057,925	2,974,398.81 /LS	2,974,399
	07.0				Thermal and Moisture Protection											
		07.00			Thermal & Moisture Protection											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	Thermal & Moisture Protection, Membrane Roofing											
					Framing, miscellaneous wood blocking/backing for sheet metal	1.40 mbf	45	4,881	2,380	-	-	-	5,186.34 /mbf	7,261	7,422.92 /mbf	10,392
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	9,540.00 bf	120	12,378	19,080	-	-	-	3.30 /bf	31,458	4.79 /bf	45,660
					Cants, mineral or fiber, trapezoidal, 1" x 4" x 48"	270.00 lf	7	686	103	-	-	-	2.92 /lf	788	4.14 /lf	1,117
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	116.00 SQ	186	19,256	16,356	-	897	-	314.73 /SQ	36,508	453.20 /SQ	52,571
					Coping, galvanized steel, 24 gauge, 16" wall	684.00 lf	93	10,135	2,777	-	-	-	18.88 /lf	12,912	26.86 /lf	18,374
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	103.00 lf	6	693	480	-	-	-	11.38 /lf	1,173	16.36 /lf	1,685
					Reglet, galvanized steel, in concrete parapet, 24 gauge	1,300.00 lf	46	5,036	3,653	-	-	-	6.68 /lf	8,689	9.61 /lf	12,494
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	1,300.00 lf	69	8,449	2,535	-	-	-	8.45 /lf	10,984	12.03 /lf	15,644
					Roof Hatches, with curb, 1" fiberglass insulation, galvanized steel curb & cover, 2'-6" x 8'	1.00 ea	5	516	2,500	-	-	-	3,016.02 /ea	3,016	4,426.23 /ea	4,426
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	116.00 SQ	576	62,029	49,864		897		972.32 /SQ	112,789	1,399.68 /SQ	162,363
					07.00.000 TPO Membrane Roofing	**116.00 SQ**	**576**	**62,029**	**49,864**		**897**		**972.32 /SQ**	**112,789**	**1,399.68 /SQ**	**162,363**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	Thermal & Moisture Protection, Metal Roofing											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	9.44 ton	58	7,235	99,120	-	2,101	-	11,488.99 /ton	108,456	16,931.77 /ton	159,836
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	94.40 ton	687	85,504	991,200	-	24,830	-	11,668.80 /ton	1,101,535	17,184.85 /ton	1,622,250
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	9,540.00 SF	71	8,870	31,387	-	333	-	4.25 /SF	40,590	6.23 /SF	59,405
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	6,500.00 sf	43	3,939	650	-	-	-	0.71 /sf	4,589	1.00 /sf	6,506
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	6,500.00 sf	87	7,877	2,535	-	-	-	1.60 /sf	10,412	2.28 /sf	14,839
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	9,540.00 SF	946	113,426	1,124,892		27,264		132.66 /SF	1,265,582	195.27 /SF	1,862,835
					MOA-07.00.001 Metal Roof	**9,540.00 SF**	**946**	**113,426**	**1,124,892**		**27,264**		**132.66 /SF**	**1,265,582**	**195.27 /SF**	**1,862,835**
					07.00 Thermal & Moisture Protection	***1.00*** LS	1,522	175,454	1,174,755		28,161		1,378,370.68 /LS	1,378,371	2,025,198.76 /LS	2,025,199
					07.0 Thermal and Moisture Protection	***1.00*** LS	1,522	175,454	1,174,755		28,161		1,378,370.68 /LS	1,378,371	2,025,198.76 /LS	2,025,199
	08.0				Openings											
		08.00			Openings											
			MOA-08.10.001		**Exterior Doors**											
				08.30.01.20	Specialty Doors and Frames, Coiling Doors											
					Doors, rolling service, steel, manual, 20 gauge, 12' x 10' high, incl. hardware	4.00 EA	53	6,614	5,000	-	-	-	2,903.57 /EA	11,614	4,177.35 /EA	16,709
					Doors, rolling service, steel, manual, for 18 gauge doors, add	576.00 sf		-	1,025	-	-	-	1.78 /sf	1,025	2.63 /sf	1,517
					Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jambs, add	96.00 lf		-	216	-	-	-	2.25 /lf	216	3.33 /lf	320
					Doors, rolling service, steel, manual, for weatherstripping, hood, extruded rubber, add	48.00 lf		-	1,416	-	-	-	29.50 /lf	1,416	43.66 /lf	2,096
					Doors, rolling service, steel, manual, motor operators for, to 14' x 14' opening	4.00 ea	13	1,587	4,400	-	-	-	1,496.86 /ea	5,987	2,186.54 /ea	8,746
					08.30.01.20 Specialty Doors and Frames, Coiling Doors	4.00 EA	66	8,202	12,057				5,064.75 /EA	20,259	7,347.07 /EA	29,388
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**66**	**8,202**	**12,057**				**5,064.75 /EA**	**20,259**	**7,347.07 /EA**	**29,388**
					08.00 Openings	***1.00*** LS	66	8,202	12,057				20,259.00 /LS	20,259	29,388.29 /LS	29,388
		08.10			Doors and Frames - Exterior Doors											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	Doors and Frames, Hollow Metal											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	14.00 opng	37	4,068	518	-	-	-	327.56 /opng	4,586	463.72 /opng	6,492
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	14.00 EA	112	13,890	16,800	-	-	-	2,192.14 /EA	30,690	3,172.40 /EA	44,414
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	14.00 ea	12	1,356	13,580	-	-	-	1,066.84 /ea	14,936	1,571.89 /ea	22,006
					08.10.01.10 Doors and Frames, Hollow Metal	14.00 EA	162	19,314	30,898				3,586.55 /EA	50,212	5,208.01 /EA	72,912
					MOA-08.10.001 Exterior Doors	**14.00 EA**	**162**	**19,314**	**30,898**				**3,586.55 /EA**	**50,212**	**5,208.01 /EA**	**72,912**
					08.10 Doors and Frames - Exterior Doors	14.00 EA	162	19,314	30,898				3,586.55 /EA	50,212	5,208.01 /EA	72,912
		08.15			Doors and Frames - Interior Doors											
			MOA-08.15.001		**Interior Doors**											
				08.10.01.10	Doors and Frames, Hollow Metal											
					Doors, steel, interior, 7'-0" x 3'-0" wide	3.00 EA	11	1,187	3,323	-	-	-	1,503.44 /EA	4,510	2,196.37 /EA	6,589
					08.10.01.10 Doors and Frames, Hollow Metal	3.00 EA	11	1,187	3,323				1,503.44 /EA	4,510	2,196.37 /EA	6,589
					MOA-08.15.001 Interior Doors	**3.00 EA**	**11**	**1,187**	**3,323**				**1,503.44 /EA**	**4,510**	**2,196.37 /EA**	**6,589**
					08.15 Doors and Frames - Interior Doors	3.00 EA	11	1,187	3,323				1,503.44 /EA	4,510	2,196.37 /EA	6,589
					08.0 Openings	21.00 EA	239	28,703	46,278				3,570.53 /EA	74,981	5,185.21 /EA	108,889
	09.0				Finishes											
		09.20			Plaster and Gypsum Board											
			MOA-09.20.001		**3-5/8" thick Interior Metal Stud Wall - Type A**											
				09.00.99.00	Finishes, Other											
					Blanket insulation, for walls or ceilings, unfaced fiberglass, 3-1/2" thick, R13, 23" wide	436.51 SF	2	238	258	-	-	-	1.13 /SF	495	1.64 /SF	716

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				09.00.99.00	Finishes, Other											
					2-1/2" Metal studs, galv, 20 ga., 24" oc, non load brng, >10' ht.	436.51 sf	7	792	87	-	-	-	2.02 /sf	880	2.85 /sf	1,244
					Pack void between top track and flutes and seal both sides	40.00 lf	2	218	23	-	-	-	6.03 /lf	241	8.53 /lf	341
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	873.02 sf	18	1,964	471	-	-	-	2.79 /sf	2,435	3.96 /sf	3,461
					09.00.99.00 Finishes, Other	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.20 /SF**	**5,763**
					MOA-09.20.001 3-5/8" thick Interior Metal Stud Wall - Type A	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.20 /SF**	**5,763**
					09.20 Plaster and Gypsum Board	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.20 /SF**	**5,763**
					09.0 Finishes	***1.00* LS**	**29**	**3,212**	**840**				**4,051.29 /LS**	**4,051**	**5,762.97 /LS**	**5,763**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.40.PMP		**13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A**											
				26.00.99.00	**Electrical, Other**											
					Pump Drive, 8000HP including Transformer, including rigging sub	12.00 E	4,800	500,722	11,836,740	66,000	12,000	-	1,034,621.80 /E	12,415,462	1,681,266.28 /E	20,175,195
					26.00.99.00 Electrical, Other	***1.00* LS**	**4,800**	**500,722**	**11,836,740**	**66,000**	**12,000**		**12,415,461.60 /LS**	**12,415,462**	**20,175,195.32 /LS**	**20,175,195**
				26.10.03.00	**Site Electrical, Duct Bank**											
					PVC conduit, schedule 40, 4" diameter, to 15' H, incl terminations, fittings, & support	600.00 LF	150	15,648	3,450	-	-	-	31.83 /LF	19,098	49.99 /LF	29,994
					PVC conduit elbows, 4" diameter, to 15' H	12.00 ea	12	1,231	276	-	-	-	125.58 /ea	1,507	197.25 /ea	2,367
					PVC conduit, field bends, 45 Deg. to 90 Deg., 4" diameter	12.00 ea	12	1,252	-	-	-	-	104.32 /ea	1,252	162.47 /ea	1,950
					PVC adapters, 4" diameter, to 15' H	24.00 ea	12	1,252	115	-	-	-	56.96 /ea	1,367	89.06 /ea	2,137
					26.10.03.00 Site Electrical, Duct Bank	**600.00 LF**	**186**	**19,382**	**3,841**				**38.71 /LF**	**23,223**	**60.75 /LF**	**36,448**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Hi-Pot Test 15 KV	12.00 E	24	2,504	-	2,400	-	-	408.63 /E	4,904	576.44 /E	6,917
					Cable terminations, indoor, insulation diameter range, 15 kV, .525" to 1.025", pad mount	36.00 ea	90	9,389	3,924	-	-	-	369.79 /ea	13,313	583.85 /ea	21,018
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00* LS**	**114**	**11,892**	**3,924**	**2,400**			**18,216.14 /LS**	**18,216**	**27,935.77 /LS**	**27,936**
					26.40.PMP 13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	***1.00* LS**	**5,100**	**531,996**	**11,844,505**	**68,400**	**12,000**		**12,456,901.00 /LS**	**12,456,901**	**20,239,579.34 /LS**	**20,239,579**
					26.15 Process Electrical	***1.00* LS**	**5,100**	**531,996**	**11,844,505**	**68,400**	**12,000**		**12,456,901.00 /LS**	**12,456,901**	**20,239,579.34 /LS**	**20,239,579**
		26.20			**Facility Electrical**											
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	20.00 lf	5	522	1,058	-	-	-	78.98 /lf	1,580	126.84 /lf	2,537
					Copper Bus Bar Supports	20.00 E	20	2,086	966	-	-	-	152.62 /E	3,052	241.20 /E	4,824
					Grounding rod, copper clad, 10' long, 5/8" diameter	12.00 ea	21	2,177	390	-	-	-	213.92 /ea	2,567	335.53 /ea	4,026
					Ground wire, copper wire, bare stranded, 4/0	9.00 clf	25	2,635	3,780	-	-	-	712.82 /clf	6,415	1,140.65 /clf	10,266
					Exothermic weld	34.00 ea	51	5,320	321	-	-	-	165.93 /ea	5,641	259.11 /ea	8,810
					26.15.11.00 Process Electrical, Grounding	**9.00 clf**	**122**	**12,741**	**6,515**				**2,139.54 /clf**	**19,256**	**3,384.77 /clf**	**30,463**
					26.05.GRDG Facility Grounding	***1.00* LS**	**122**	**12,741**	**6,515**				**19,255.83 /LS**	**19,256**	**30,462.92 /LS**	**30,463**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,800.00 lf	180	18,777	9,270	-	-	-	15.58 /lf	28,047	24.64 /lf	44,355
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	144.00 ea	58	6,009	485	-	-	-	45.10 /ea	6,494	70.48 /ea	10,149
					Outlet boxes, pressed steel, covers, blank, 4" square	144.00 ea	18	1,878	111	-	-	-	13.81 /ea	1,989	21.56 /ea	3,105
					26.00.99.00 Electrical, Other	***1.00* LS**	**256**	**26,663**	**9,866**				**36,529.59 /LS**	**36,530**	**57,609.41 /LS**	**57,609**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	72.00 clf	52	5,462	986	-	-	-	89.57 /clf	6,449	140.49 /clf	10,115
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	24.00 clf	19	2,003	492	-	-	-	103.95 /clf	2,495	163.39 /clf	3,921
					26.15.01.00 Process Electrical, Wire/Cable	**96.00 clf**	**72**	**7,465**	**1,478**				**93.16 /clf**	**8,944**	**146.22 /clf**	**14,037**
				26.20.03.00	**Facility Electrical, Lighting**											
					LED Strip Light, hdwe	120.00 ea	168	17,569	13,200	-	-	-	256.41 /ea	30,769	407.33 /ea	48,879
					Emergency ballast, material only, interior, factory installed in fixture	36.00 ea		-	5,472	-	-	-	152.00 /ea	5,472	247.76 /ea	8,919
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	20.00 ea	20	2,086	1,400	-	-	-	174.32 /ea	3,486	276.57 /ea	5,531
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	120.00 ea	30	3,130	654	-	-	-	31.53 /ea	3,784	49.50 /ea	5,940
					26.20.03.00 Facility Electrical, Lighting	***1.00* LS**	**218**	**22,785**	**20,726**				**43,511.03 /LS**	**43,511**	**69,270.18 /LS**	**69,270**
					26.25.LTG Interior Lighting and Control	***1.00* LS**	**546**	**56,914**	**32,071**				**88,984.33 /LS**	**88,984**	**140,916.42 /LS**	**140,916**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.74 /lf	4,110
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.48 /ea	846
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.56 /ea	259
					26.00.99.00 Electrical, Other	***1.00* LS**	**28**	**2,904**	**424**				**3,328.21 /LS**	**3,328**	**5,214.38 /LS**	**5,214**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.49 /clf	1,686
					26.15.01.00 Process Electrical, Wire/Cable	**12.00 clf**	**9**	**910**	**164**				**89.57 /clf**	**1,075**	**140.49 /clf**	**1,686**
				26.15.07.00	**Lighting**											
					LED Area Light	4.00 E	8	835	***2,000***	-	-	-	708.64 /E	2,835	1,139.94 /E	4,560
					Wallpack Photocell	4.00 E	8	835	1,200	-	-	-	508.64 /E	2,035	813.94 /E	3,256
					26.15.07.00 Lighting	***1.00* LS**	**16**	**1,669**	**3,200**				**4,869.08 /LS**	**4,869**	**7,815.50 /LS**	**7,816**
					26.26.EXTLTG Exterior Lighting and Control	***1.00* LS**	**53**	**5,484**	**3,789**				**9,272.09 /LS**	**9,272**	**14,715.77 /LS**	**14,716**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	20	2,086	1,030	-	-	-	15.58 /lf	3,116	24.64 /lf	4,928
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	6.00 ea	4	417	132	-	-	-	91.55 /ea	549	144.18 /ea	865
					Duplex receptacle, grounded, 120 volt, 20 amp	4.00 ea	1	124	43	-	-	-	41.56 /ea	166	65.50 /ea	262
					Duplex receptacle, ground fault interrupting, 20 amp	2.00 ea	1	62	90	-	-	-	75.91 /ea	152	121.49 /ea	243
					WP cover	6.00 ea	1	83	255	-	-	-	56.41 /ea	338	90.94 /ea	546
					26.00.99.00 Electrical, Other	***1.00* LS**	**27**	**2,773**	**1,550**				**4,322.11 /LS**	**4,322**	**6,843.94 /LS**	**6,844**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	6.00 clf	4	455	82	-	-	-	89.57 /clf	537	140.49 /clf	843
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	2.00 clf	2	167	41	-	-	-	103.96 /clf	208	163.39 /clf	327

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.01.00 Process Electrical, Wire/Cable	**8.00 clf**	**6**	**622**	**123**				**93.16 /clf**	**745**	**146.22 /clf**	**1,170**
					26.30.DEV Device Outlets	***1.00*** **LS**	**33**	**3,395**	**1,673**				**5,067.42 /LS**	**5,067**	**8,013.67 /LS**	**8,014**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	40.00 hr	40	4,173	2,000	-	1,000	-	179.32 /hr	7,173	282.91 /hr	11,316
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**40**	**4,173**	**2,000**		**1,000**		**7,172.68 /LS**	**7,173**	**11,316.31 /LS**	**11,316**
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	40.00 ea	40	4,173	1,040	-	-	-	130.32 /ea	5,213	204.85 /ea	8,194
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	6.50 lf	0	17	21	-	-	-	5.79 /lf	38	9.25 /lf	60
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.80 /LS	20,124
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**75**	**7,841**	**6,061**	**5,000**			**18,901.40 /LS**	**18,901**	**28,377.95 /LS**	**28,378**
					26.90.LPS Facility Lightning Protection System	**1.00 LS**	**115**	**12,013**	**8,061**	**5,000**	**1,000**		**26,074.08 /LS**	**26,074**	**39,694.26 /LS**	**39,694**
					26.20 Facility Electrical	***1.00*** **LS**	**868**	**90,546**	**52,108**	**5,000**	**1,000**		**148,653.75 /LS**	**148,654**	**233,803.04 /LS**	**233,803**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	160.00 lf	14	1,484	554	-	-	-	12.73 /lf	2,037	20.08 /lf	3,213
					Flexible metallic conduit, steel, 1-1/2" diameter	12.00 lf	2	200	31	-	-	-	19.24 /lf	231	30.15 /lf	362
					Flexible metallic conduit, steel, 2" diameter	12.00 lf	2	250	39	-	-	-	24.09 /lf	289	37.76 /lf	453
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	4.00 ea	1	104	98	-	-	-	50.58 /ea	202	80.55 /ea	322
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	4.00 ea	1	145	104	-	-	-	62.29 /ea	249	98.90 /ea	396
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	4.00 ea	1	145	184	-	-	-	82.29 /ea	329	131.49 /ea	526
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	4.00 ea	2	185	268	-	-	-	113.36 /ea	453	181.42 /ea	726
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	4.00 ea	80	8,345	8,500	-	-	-	4,211.34 /ea	16,845	6,713.14 /ea	26,853
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	4.00 ea	114	11,922	16,500	-	-	-	7,105.49 /ea	28,422	11,365.71 /ea	45,463
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	4.00 ea	114	11,922	20,700	-	-	-	8,155.49 /ea	32,622	13,077.19 /ea	52,309
					Uninterruptible power supply, charger, inverter, and alarm 1 phase, 120 V, 5 kVA, incl 10 minutes battery	4.00 ea	190	21,299	28,400	-	1,968	-	12,916.86 /ea	51,667	20,632.50 /ea	82,530
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**523**	**56,003**	**75,377**		**1,968**		**133,347.96 /LS**	**133,348**	**213,151.60 /LS**	**213,152**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	1.00 clf	1	128	55	-	-	-	182.89 /clf	183	288.79 /clf	289
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.60 clf	1	94	47	-	-	-	234.97 /clf	141	371.60 /clf	223
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	4.00 clf	8	835	636	-	-	-	367.64 /clf	1,471	584.11 /clf	2,336
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	2.40 clf	9	910	924	-	-	-	764.33 /clf	1,834	1,218.35 /clf	2,924
					26.15.01.00 Process Electrical, Wire/Cable	**8.00 clf**	**19**	**1,968**	**1,661**				**453.60 /clf**	**3,629**	**721.53 /clf**	**5,772**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	4.00 EA	91	9,538	13,500	-	-	-	5,759.39 /EA	23,038	9,214.82 /EA	36,859
					26.25.06.00 Transformers, Dry Type	**4.00 EA**	**91**	**9,538**	**13,500**				**5,759.39 /EA**	**23,038**	**9,214.82 /EA**	**36,859**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**633**	**67,508**	**90,538**		**1,968**		**160,014.32 /LS**	**160,014**	**255,783.09 /LS**	**255,783**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	50.00 lf	3	321	54	-	-	-	7.49 /lf	374	11.74 /lf	587
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	50.00 lf	3	363	90	-	-	-	9.06 /lf	453	14.24 /lf	712
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**7**	**684**	**144**				**827.32 /LS**	**827**	**1,298.94 /LS**	**1,299**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	2.00 clf	1	152	27	-	-	-	89.57 /clf	179	140.49 /clf	281
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	2.00 clf	2	167	41	-	-	-	103.96 /clf	208	163.40 /clf	327
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	2.00 clf	2	209	68	-	-	-	138.32 /clf	277	217.89 /clf	436
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	1.00 ea	1	104	6	-	-	-	110.67 /ea	111	172.83 /ea	173
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	1.00 ea	1	104	6	-	-	-	110.67 /ea	111	172.83 /ea	173
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	1.00 ea	1	104	9	-	-	-	113.62 /ea	114	177.63 /ea	178
					26.15.01.00 Process Electrical, Wire/Cable	**6.00 clf**	**8**	**840**	**158**				**166.44 /clf**	**999**	**261.14 /clf**	**1,567**
				26.20.05.00	**Facility Electrical, HVAC**											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,704.92 /LS	5,705
					26.20.05.00 Facility Electrical, HVAC	***1.00*** **LS**			**3,500**				**3,500.00 /LS**	**3,500**	**5,704.92 /LS**	**5,705**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00*** **LS**	**15**	**1,524**	**3,802**				**5,325.95 /LS**	**5,326**	**8,570.69 /LS**	**8,571**
					26.25 Electrical Equipment	***1.00*** **LS**	**648**	**69,032**	**94,340**		**1,968**		**165,340.27 /LS**	**165,340**	**264,353.78 /LS**	**264,354**
					26.0 Electrical Work	***1.00*** **LS**	**6,616**	**691,574**	**11,990,953**	**73,400**	**14,968**		**12,770,895.02 /LS**	**12,770,895**	**20,737,736.16 /LS**	**20,737,736**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,604.73 /ton	4,144
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	800.00 LF	80	8,345	2,976	-	-	-	14.15 /LF	11,321	22.31 /LF	17,849
					26.10.02.00 Site Electrical, Buried Conduit	**800.00 LF**	**91**	**9,593**	**4,326**				**17.40 /LF**	**13,919**	**27.49 /LF**	**21,993**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	130.00 clf	80	8,345	1,261	-	-	-	73.90 /clf	9,606	115.79 /clf	15,053
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	130.00 clf	149	15,499	3,900	-	-	-	149.22 /clf	19,399	234.58 /clf	30,496
					26.15.01.00 Process Electrical, Wire/Cable	**260.00 clf**	**229**	**23,844**	**5,161**				**111.56 /clf**	**29,005**	**175.19 /clf**	**45,549**
				26.15.11.00	**Process Electrical, Grounding**											
					Ground wire, copper wire, bare stranded, 4/0	1.55 clf	4	452	649	-	-	-	712.82 /clf	1,101	1,140.65 /clf	1,762
					Water pipe ground clamps, heavy duty, bronze, 1-1/4" to 2" diameter	1.50 ea	2	156	47	-	-	-	135.32 /ea	203	213.02 /ea	320
					26.15.11.00 Process Electrical, Grounding	**1.55 clf**	**6**	**609**	**695**				**844.20 /clf**	**1,304**	**1,347.47 /clf**	**2,082**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**325**	**34,046**	**10,182**				**44,228.56 /LS**	**44,229**	**69,623.34 /LS**	**69,623**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					27.00 Telecommunications	***1.00*** **LS**	**325**	**34,046**	**10,182**				**44,228.56 /LS**	**44,229**	**69,623.34 /LS**	**69,623**
					27.0 Telecommunications - Network	***1.00*** **LS**	**325**	**34,046**	**10,182**				**44,228.56 /LS**	**44,229**	**69,623.34 /LS**	**69,623**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.74 /lf	21,371
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.48 /ea	4,229
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.57 /ea	173
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	52.00 ea	7	678	86	-	-	-	14.70 /ea	764	23.01 /ea	1,197
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**144**	**14,970**	**2,242**				**17,211.58 /LS**	**17,212**	**26,969.23 /LS**	**26,969**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.79 /clf	34,738
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.79 /clf**	**34,738**
					28.10.FA Fire Alarm System	***1.00*** **LS**	**328**	**34,228**	**5,152**				**39,380.10 /LS**	**39,380**	**61,707.23 /LS**	**61,707**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	200	20,863	10,000	10,000	-	-	40,863.40 /LS	40,863	61,368.92 /LS	61,369
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,368.92 /LS**	**61,369**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,368.92 /LS**	**61,369**
					28.00 Electronic Safety and Security	***1.00*** **LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**123,076.15 /LS**	**123,076**
					28.0 Electronic Safety and Security	***1.00*** **LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**123,076.15 /LS**	**123,076**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.300		**Funk PGP, Process Piping**											
				40.10.02.60	**Process Pipe, Carbon Steel, 60"**											
					Elbow, steel, butt weld, 60° Dia	21.00 ea	756	85,533	199,500	-	4,727	-	13,798.10 /ea	289,760	18,039.58 /ea	378,831
					Piping, pipe, WSP, plain end, welded, 60" diameter, excludes excavation or backfill	720.00 LF	1,080	112,517	302,400	-	53,624	-	650.75 /LF	468,541	848.76 /LF	611,105
					Butterfly Valves	14.00 ea	336	38,015	1,190,000	-	21,840	-	89,275.34 /ea	1,249,855	118,424.44 /ea	1,657,942
					Check Valves	13.00 ea	312	35,299	455,000	-	20,280	-	39,275.34 /ea	510,579	51,925.45 /ea	675,031
					Dismantling Joints	13.00 ea	312	35,299	481,000	-	20,280	-	41,275.34 /ea	536,579	54,585.40 /ea	709,610
					ARV, Complete	13.00 ea	416	42,596	45,500		6,760		7,296.64 /ea	94,856	9,429.13 /ea	122,579
					Miscellaneous Items Allowance	1.00 ls				250,000			250,000.00 /ls	250,000	314,369.98 /ls	314,370
					40.10.02.60 Process Pipe, Carbon Steel, 60"	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,207.59 /LF**	**4,469,468**
					40.00.300 Funk PGP, Process Piping	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,207.59 /LF**	**4,469,468**
					40.11 Process Pipe, Carbon Steel	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,207.59 /LF**	**4,469,468**
					40.0 Process Pipe	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,207.59 /LF**	**4,469,468**
	40.9				**Instrumentation**											
		40.90			**Instrumentation & Controls**											
			40.90.I&C		**Instrumentation & Control**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	80.00 clf	49	5,136	776	-	-	-	73.90 /clf	5,912	115.79 /clf	9,263
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	15.00 clf	17	1,788	450	-	-	-	149.22 /clf	2,238	234.58 /clf	3,519
					26.15.01.00 Process Electrical, Wire/Cable	**95.00 clf**	**66**	**6,924**	**1,226**				**85.79 /clf**	**8,150**	**134.55 /clf**	**12,782**
				40.90.99.01	**Instrumentation Allowance**											
					Pump I&C Components	12.00 ea	600	49,542	90,000		-	-	11,628.50 /ea	139,542	18,654.90 /ea	223,859
					40.90.99.01 Instrumentation Allowance	***1.00*** **LS**	**600**	**49,542**	**90,000**				**139,542.00 /LS**	**139,542**	**223,858.85 /LS**	**223,859**
					40.90.I&C Instrumentation & Control	***1.00*** **LS**	**666**	**56,466**	**91,226**				**147,691.90 /LS**	**147,692**	**236,641.04 /LS**	**236,641**
					40.90 Instrumentation & Controls	***1.00*** **LS**	**666**	**56,466**	**91,226**				**147,691.90 /LS**	**147,692**	**236,641.04 /LS**	**236,641**
					40.9 Instrumentation	***1.00*** **LS**	**666**	**56,466**	**91,226**				**147,691.90 /LS**	**147,692**	**236,641.04 /LS**	**236,641**
	44.0				**Pollution and Waste Control Equipment**											
		44.40			**Process Equipment - Pumps**											
			44.40.300		**Funk PGP, Furnish and Install Pumps**											
				44.05.42.06	**Vertical Turbine Pump: 8000 hp**											
					Functional Testing, Pumps, >1000 hp	12.00 ea	384	40,486	1,200	-	-	-	3,473.86 /ea	41,686	4,375.55 /ea	52,507
					Align Pump & Motor, >1000 hp	12.00 ea	480	50,608	-	33,600	-	-	7,017.32 /ea	84,208	8,824.14 /ea	105,890
					Vibration Testing, Pumps, >1000 hp	12.00 ea	192	20,243	-	16,800	-	-	3,086.93 /ea	37,043	3,881.75 /ea	46,581
					Sleeved anchor bolts - Large	144.00 ea	144	15,182	4,032	-	-	-	133.43 /ea	19,214	169.82 /ea	24,454
					Anchor bolts for leveling pump cans	48.00 ea	192	20,243	7,200	-	-	-	571.73 /ea	27,443	729.82 /ea	35,031
					Non-Shrink Machine Grout	192.00 cuft	182	19,231	14,208	-	-	-	174.16 /cuft	33,439	224.37 /cuft	43,079
					Grease, Oil, and Lube Pumps, >1000 hp	13.00 ea	208	21,930	1,950	-	-	-	1,836.93 /ea	23,880	2,320.77 /ea	30,170
					FURNISH Vertical Turbine Pump, SS, 8000 hp	12.00 EA		-		-	-	0	0.01 /EA	0	1,005,955.96 /EA	12,071,472
					44.05.42.06 Vertical Turbine Pump: 8000 hp	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,034,098.59 /EA**	**12,409,183**
					44.40.300 Funk PGP, Furnish and Install Pumps	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,034,098.59 /EA**	**12,409,183**
					44.40 Process Equipment - Pumps	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,034,098.59 /EA**	**12,409,183**
					44.0 Pollution and Waste Control Equipment	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,034,098.59 /EA**	**12,409,183**
					2155 Funks PGP Pumping Plant	***1.00*** **LS**	**163,477**	**17,391,715**	**25,264,210**	**892,928**	**460,820**	**0**	**44,009,673.01 /LS**	**44,009,673**	**78,387,364.60 /LS**	**78,387,365**
2160					**Funks PGP Switchgear Building**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.002		**8" thick Slab on Grade**											
				03.10.05.08	**Cast-In-Place Concrete, Slabs on Grade, 8" thick**											
					Fine grade, for slab on grade, by hand	2,989.00 sf	21	1,891	90	-	-	-	0.66 /sf	1,981	0.97 /sf	2,894
					Fill, gravel subbase, under building slab on grade	112.00 cy	56	5,062	3,136	-	-	-	73.19 /cy	8,198	108.71 /cy	12,175
					Concrete pumping, subcontract, all inclusive price	150.00 cy		-	-	3,750	-	-	25.00 /cy	3,750	36.44 /cy	5,466
					Slab on grade edge forms, 7" to 12"	148.00 sf	27	2,886	148	-	-	-	20.50 /sf	3,034	29.95 /sf	4,433
					Concrete, ready mix, 4500 psi	150.00 CY		-	33,000	-	-	-	220.00 /CY	33,000	336.60 /CY	50,489
					Add for concrete waste, 4500 psi	5.00 cy		-	1,100	-	-	-	220.00 /cy	1,100	336.60 /cy	1,683
					Placing concrete, concrete pump	150.00 cy	219	19,765	-	-	-	-	131.77 /cy	19,765	192.05 /cy	28,807
					Finishing floors, monolithic, trowel finish (machine)	2,989.00 sf	60	5,460	60	-	-	-	1.85 /sf	5,520	2.69 /sf	8,050

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.08	Cast-In-Place Concrete, Slabs on Grade, 8" thick											
					Curing, membrane spray	2,989.00 sf	6	540	120	-	-	-	0.22 /sf	660	0.32 /sf	970
					Polyethelene vapor barrier, 10 mil thick	29.89 sq	7	708	317	-	-	-	34.30 /sq	1,025	50.76 /sq	1,517
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	13.25 ton	212	24,804	19,875	-	-	-	3,372.03 /ton	44,679	5,023.42 /ton	66,560
					Reinforcing in place, unloading & sorting, add to above - slabs	13.25 ton	7	885	-	-	307	-	89.94 /ton	1,192	131.09 /ton	1,737
					03.10.05.08 Cast-In-Place Concrete, Slabs on Grade, 8" thick	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,231.88 /CY**	**184,782**
					MOA-03.20.002 8" thick Slab on Grade	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,231.88 /CY**	**184,782**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,231.88 /CY**	**184,782**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.001		**4" thick CIP Concrete Roof Deck**											
				03.10.10.03.5	**Cast-In-Place Concrete, Elevated Decks, 3.5" thick**											
					Concrete pumping, subcontract, all inclusive price	2.03 cy		-	-	51	-	-	25.00 /cy	51	36.44 /cy	74
					Forms in place, elevated slab, soffit	188.00 sf	38	4,074	235	-	-	-	22.92 /sf	4,309	33.49 /sf	6,297
					Forms in place, elevated slab, edge form	16.04 sf	4	435	20	-	-	-	28.34 /sf	455	41.39 /sf	664
					Slab shoring	1,880.00 cf	13	1,426	94	-	-	-	0.81 /cf	1,520	1.18 /cf	2,222
					Reinforcing in place, A615 Gr 60, priced per lbs.	274.17 lb		-	411	110	-	-	1.90 /lb	521	2.88 /lb	789
					Concrete, ready mix, 4500 psi	2.03 CY		-	457	-	-	-	225.00 /CY	457	344.26 /CY	699
					Add for concrete waste, 4500 psi	0.10 cy		-	23	-	-	-	225.00 /cy	23	344.22 /cy	35
					Placing concrete, concrete pump, for elevated slab to 12" thick	2.03 cy	2	189	-	-	-	-	93.19 /cy	189	135.81 /cy	276
					Curing, membrane spray	188.00 sf	0	34	8	-	-	-	0.22 /sf	42	0.32 /sf	61
					Structural concrete,ready mix,normal weight,1:2 mix topping,includes sand,portland cement and water,delivered,excludes all additives and treatments	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	188.00 sf	3	240	-	-	10	-	1.33 /sf	250	1.93 /sf	364
					Structural steel member, 100-ton project, 1 to 2 story building, W8x24, A992 steel, shop fabricated, incl shop primer, bolted connections	17.00 lf	2	215	740	-	85	-	61.14 /lf	1,039	92.26 /lf	1,568
					03.10.10.03.5 Cast-In-Place Concrete, Elevated Decks, 3.5" thick	**2.03 CY**	**62**	**6,612**	**2,427**	**160**	**94**		**4,576.20 /CY**	**9,294**	**6,756.37 /CY**	**13,722**
					MOA-03.30.001 4" thick CIP Concrete Roof Deck	**2.03 CY**	**62**	**6,612**	**2,427**	**160**	**94**		**4,576.20 /CY**	**9,294**	**6,756.37 /CY**	**13,722**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**2.03 CY**	**62**	**6,612**	**2,427**	**160**	**94**		**4,576.20 /CY**	**9,294**	**6,756.37 /CY**	**13,722**
		03.27			**Cast-In-Place Concrete, Equipment Pads**											
			MOA-03.15.001		**4" thick Equipment Pad**											
				03.10.13.04	**Cast-In-Place Concrete, Equipment Pads, 4" thick**											
					Fine grade, for slab on grade, by hand	669.00 sf	5	423	20	-	-	-	0.66 /sf	443	0.97 /sf	648
					Concrete pumping, subcontract, all inclusive price	8.26 cy		-	-	206	-	-	25.00 /cy	206	36.44 /cy	301
					Edge forms, housekeeping pads, up to 6"	245.00 lf	13	1,407	64	-	-	-	6.00 /lf	1,471	8.77 /lf	2,148
					Wire welded fabric, 6 x 6 - W1.4 x W1.4	669.00 sf	7	783	54	-	-	-	1.25 /sf	836	1.83 /sf	1,223
					Concrete, ready mix, 4500 psi	8.26 CY		-	1,817	-	-	-	220.00 /CY	1,817	336.60 /CY	2,780
					Add for concrete waste, 4500 psi	0.41 cy		-	91	-	-	-	220.00 /cy	91	336.61 /cy	139
					Placing concrete, concrete pump	8.26 cy	12	1,088	-	-	-	-	131.77 /cy	1,088	192.05 /cy	1,586
					Finish housekeeping pads	669.00 sf	27	2,444	20	-	-	-	3.68 /sf	2,464	5.37 /sf	3,593
					Curing, membrane spray	669.00 sf	1	121	27	-	-	-	0.22 /sf	148	0.32 /sf	217
					Polyethelene vapor barrier, 6 mil thick	6.69 sq	1	159	24	-	-	-	27.33 /sq	183	40.10 /sq	268
					03.10.13.04 Cast-In-Place Concrete, Equipment Pads, 4" thick	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,562.29 /CY**	**12,903**
					MOA-03.15.001 4" thick Equipment Pad	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,562.29 /CY**	**12,903**
					03.27 Cast-In-Place Concrete, Equipment Pads	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,562.29 /CY**	**12,903**
					03.0 Concrete Work	**160.29 CY**	**742**	**75,040**	**62,388**	**4,117**	**402**		**885.56 /CY**	**141,946**	**1,318.90 /CY**	**211,407**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	**Thermal & Moisture Protection, Membrane Roofing**											
					Ladder, shop fabricated, aluminum, 20" W, bolted to concrete, incl cage	15.00 vlf	10	1,199	2,595	-	45	-	255.97 /vlf	3,839	372.81 /vlf	5,592
					Framing, miscellaneous wood blocking/backing for sheet metal	1.40 mbf	45	4,881	2,380	-	-	-	5,186.34 /mbf	7,261	7,422.91 /mbf	10,392
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	2,850.00 bf	36	3,698	5,700	-	-	-	3.30 /bf	9,398	4.79 /bf	13,641
					Cants, mineral or fiber, trapezoidal, 1" x 4" x 48"	70.00 lf	2	178	27	-	-	-	2.92 /lf	204	4.14 /lf	290
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	35.10 SQ	56	5,827	4,949	-	271	-	314.73 /SQ	11,047	453.20 /SQ	15,907
					Coping, galvanized steel, 24 gauge, 16" wall	220.00 lf	30	3,260	893	-	-	-	18.88 /lf	4,153	26.86 /lf	5,910
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	30.00 lf	2	202	140	-	-	-	11.38 /lf	342	16.36 /lf	491
					Reglet, galvanized steel, in concrete parapet, 24 gauge	440.00 lf	16	1,704	1,236	-	-	-	6.68 /lf	2,941	9.61 /lf	4,229
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	440.00 lf	23	2,860	858	-	-	-	8.45 /lf	3,718	12.03 /lf	5,295
					Roof Hatches, with curb, 1" fiberglass insulation, galvanized steel curb & cover, 2'-6" x 8'	1.00 ea	5	516	2,500	-	-	-	3,016.02 /ea	3,016	4,426.24 /ea	4,426
					Drains, scupper flr, oblique stn, C.I., 8"x12" top, 5" & 6" pipe size	2.00 ea	2	256	1,880	-	-	-	1,067.97 /ea	2,136	1,571.30 /ea	3,143
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	**35.10 SQ**	**226**	**24,580**	**23,158**		**316**		**1,369.07 /SQ**	**48,054**	**1,974.78 /SQ**	**69,315**
					07.00.000 TPO Membrane Roofing	**35.10 SQ**	**226**	**24,580**	**23,158**		**316**		**1,369.07 /SQ**	**48,054**	**1,974.78 /SQ**	**69,315**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	1.60 ton	10	1,226	16,800	-	356	-	11,488.99 /ton	18,382	16,931.78 /ton	27,091
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	16.00 ton	116	14,492	168,000	-	4,209	-	11,668.80 /ton	186,701	17,184.85 /ton	274,958
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	2,850.00 SF	21	2,650	9,377	-	99	-	4.25 /SF	12,126	6.23 /SF	17,747
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	1,300.00 sf	9	788	130	-	-	-	0.71 /sf	918	1.00 /sf	1,301
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	1,300.00 sf	17	1,575	507	-	-	-	1.60 /sf	2,082	2.28 /sf	2,968
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**2,850.00 SF**	**173**	**20,732**	**194,814**		**4,664**		**77.27 /SF**	**220,209**	**113.71 /SF**	**324,064**
					MOA-07.00.001 Metal Roof	**2,850.00 SF**	**173**	**20,732**	**194,814**		**4,664**		**77.27 /SF**	**220,209**	**113.71 /SF**	**324,064**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**399**	**45,312**	**217,972**		**4,980**		**268,263.78 /LS**	**268,264**	**393,378.81 /LS**	**393,379**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**399**	**45,312**	**217,972**		**4,980**		**268,263.78 /LS**	**268,264**	**393,378.81 /LS**	**393,379**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	3.00 opng	8	872	111	-	-	-	327.56 /opng	983	463.72 /opng	1,391
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	3.00 EA	24	2,976	3,600	-	-	-	2,192.14 /EA	6,576	3,170.40 /EA	9,517

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				08.10.01.10	Doors and Frames, Hollow Metal											
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	3.00 ea	3	291	2,910	-	-	-	1,066.84 /ea	3,201	1,571.89 /ea	4,716
					08.10.01.10 Doors and Frames, Hollow Metal	3.00 EA	35	4,139	6,621				3,586.55 /EA	10,760	5,208.01 /EA	15,624
				08.30.01.20	Specialty Doors and Frames, Coiling Doors											
					Doors, rolling service, steel, manual, 20 gauge, 10' x 12' high, incl. hardware	1.00 EA	13	1,654	1,250	-	-	-	2,903.57 /EA	2,904	4,177.33 /EA	4,177
					Doors, rolling service, steel, manual, for 18 gauge doors, add	120.00 sf		-	214	-	-	-	1.78 /sf	214	2.63 /sf	316
					Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jambs, add	24.00 lf		-	54	-	-	-	2.25 /lf	54	3.33 /lf	80
					Doors, rolling service, steel, manual, for weatherstripping, hood, extruded rubber, add	10.00 lf		-	295	-	-	-	29.50 /lf	295	43.66 /lf	437
					Doors, rolling service, steel, manual, motor operators for, jack shaft type, over 14' x 14' opening	1.00 ea	3	397	1,025	-	-	-	1,421.86 /ea	1,422	2,075.56 /ea	2,076
					08.30.01.20 Specialty Doors and Frames, Coiling Doors	1.00 EA	17	2,050	2,838				4,888.03 /EA	4,888	7,085.53 /EA	7,086
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**51**	**6,189**	**9,459**				**3,911.92 /EA**	**15,648**	**5,677.39 /EA**	**22,710**
					08.10 Doors and Frames - Exterior Doors	4.00 EA	51	6,189	9,459				3,911.92 /EA	15,648	5,677.39 /EA	22,710
		08.15			Doors and Frames - Interior Doors											
			MOA-08.15.001		**Interior Doors**											
				08.10.01.10	Doors and Frames, Hollow Metal											
					Doors, steel, interior, 7'-0" x 3'-0" wide	1.00 EA	4	396	1,108	-	-	-	1,503.44 /EA	1,503	2,196.37 /EA	2,196
					08.10.01.10 Doors and Frames, Hollow Metal	1.00 EA	4	396	1,108				1,503.44 /EA	1,503	2,196.37 /EA	2,196
					MOA-08.15.001 Interior Doors	**1.00 EA**	**4**	**396**	**1,108**				**1,503.44 /EA**	**1,503**	**2,196.37 /EA**	**2,196**
					08.15 Doors and Frames - Interior Doors	1.00 EA	4	396	1,108				1,503.44 /EA	1,503	2,196.37 /EA	2,196
					08.0 Openings	5.00 EA	55	6,585	10,566				3,430.22 /EA	17,151	4,981.18 /EA	24,906
	09.0				Finishes											
		09.20			Plaster and Gypsum Board											
			MOA-09.20.002		**3-5/8" thick Interior Metal Stud Wall - Type B**											
				09.00.99.00	Finishes, Other											
					Blanket insulation, for walls or ceilings, unfaced fiberglass, 3-1/2" thick, R13, 23" wide	2,110.00 SF	11	1,149	1,245	-	-	-	1.13 /SF	2,394	1.64 /SF	3,460
					Metal stud partition, non-load bearing, galvanized, 10' high, 2-1/2" wide, 20 gauge, 24" O.C., includes top & bottom track	2,110.00 sf	28	3,065	971	-	-	-	1.91 /sf	4,036	2.73 /sf	5,750
					Pack void between top track and flutes and seal both sides	150.00 lf	8	817	88	-	-	-	6.03 /lf	905	8.53 /lf	1,280
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	4,220.00 sf	87	9,492	2,279	-	-	-	2.79 /sf	11,771	3.96 /sf	16,732
					09.00.99.00 Finishes, Other	2,110.00 SF	133	14,523	4,582				9.05 /SF	19,105	12.90 /SF	27,223
					MOA-09.20.002 3-5/8" thick Interior Metal Stud Wall - Type B	**2,110.00 SF**	**133**	**14,523**	**4,582**				**9.05 /SF**	**19,105**	**12.90 /SF**	**27,223**
					09.20 Plaster and Gypsum Board	2,110.00 SF	133	14,523	4,582				9.05 /SF	19,105	12.90 /SF	27,223
		09.60			Flooring											
			MOA-09.00.001		**Floor Finishes**											
				09.60.01.20	Finishes, Resilient Flooring											
					Cove base, rubber or vinyl, standard colors, 6" h, 0.080" thick	238.00 lf	6	602	369	-	-	-	4.08 /lf	971	5.86 /lf	1,394
					Paints & coatings, miscellaneous interior, floors, concrete/wood, oil base, primer/sealer coat, roller	2,783.00 SF	9	778	278	-	-	-	0.38 /SF	1,057	0.54 /SF	1,507
					09.60.01.20 Finishes, Resilient Flooring	2,783.00 SF	15	1,381	647				0.73 /SF	2,028	1.04 /SF	2,901
					MOA-09.00.001 Floor Finishes	**2,783.00 SF**	**15**	**1,381**	**647**				**0.73 /SF**	**2,028**	**1.04 /SF**	**2,901**
					09.60 Flooring	2,783.00 SF	15	1,381	647				0.73 /SF	2,028	1.04 /SF	2,901
					09.0 Finishes	*1.00* LS	148	15,904	5,229				21,133.17 /LS	21,133	30,123.63 /LS	30,124
	26.0				Electrical Work											
		26.15			Process Electrical											
			26.05.GEN		**Generator**											
				26.25.07.05	Electrical Equipment, Generators - 500 KW											
					Circuit breaker, 3 pole, 600 volt, 800 amp, enclosed (NEMA 1) additional main	1.00 ea	24	2,504	8,700	-	-	-	11,203.61 /ea	11,204	18,080.14 /ea	18,080
					Generator set,diesel,3 phase 4 wire,277/480 v,500 kw,incl battery,charger,muffler,automatic transfer switch&day tank,excl conduit,wiring,& concrete	1.00 EA	120	13,419	185,000	15,000	1,476	-	214,894.67 /EA	214,895	343,606.62 /EA	343,607
					26.25.07.05 Electrical Equipment, Generators - 500 KW	1.00 EA	144	15,922	193,700	15,000	1,476		226,098.28 /EA	226,098	361,686.76 /EA	361,687
					26.05.GEN Generator	**1.00 EA**	**144**	**15,922**	**193,700**	**15,000**	**1,476**		**226,098.28 /EA**	**226,098**	**361,686.76 /EA**	**361,687**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.74 /lf	3,523
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.24 /lf	2,847
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.83 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.82 /ea	346
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.64 /ea	355
					26.00.99.00 Electrical, Other	*1.00* LS	40	4,212	738				4,949.45 /LS	4,949	7,762.17 /LS	7,762
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	9.00 clf	7	683	123	-	-	-	89.57 /clf	806	140.49 /clf	1,264
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	4.00 clf	3	334	82	-	-	-	103.95 /clf	416	163.39 /clf	654
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	8.00 clf	8	835	272	-	-	-	138.32 /clf	1,107	217.89 /clf	1,743
					26.15.01.00 Process Electrical, Wire/Cable	21.00 clf	18	1,851	477				110.88 /clf	2,328	174.34 /clf	3,661
				26.20.05.00	Facility Electrical, HVAC											
					HVAC controls - electrical contractor scope	1.00 LS	50	5,216	3,500	-	-	-	8,715.85 /LS	8,716	13,828.51 /LS	13,829
					26.20.05.00 Facility Electrical, HVAC	*1.00* LS	50	5,216	3,500				8,715.85 /LS	8,716	13,828.51 /LS	13,829
					26.40.EQCON Facility Equipment Connections and Controls	***1.00*** **LS**	**108**	**11,279**	**4,715**				**15,993.75 /LS**	**15,994**	**25,251.79 /LS**	**25,252**
					26.15 Process Electrical	*1.00* LS	252	27,201	198,415	15,000	1,476		242,092.03 /LS	242,092	386,938.55 /LS	386,939
		26.20			Facility Electrical											
			26.02.LV		**LV UG Conduits**											
				26.10.03.00	Site Electrical, Duct Bank											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	59	6,933	7,500	-	-	-	2,886.69 /ton	14,433	4,604.71 /ton	23,024
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	600.00 LF	30	3,130	1,896	-	-	-	8.38 /LF	5,026	13.27 /LF	7,965
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	28	2,967	736	-	-	-	115.73 /ea	3,703	181.91 /ea	5,821

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.10.03.00	Site Electrical, Duct Bank											
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	18	1,908	317	-	-	-	69.51 /ea	2,224	108.98 /ea	3,487
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	120.00 ea	23	2,443	214	-	-	-	22.13 /ea	2,656	34.60 /ea	4,152
					26.10.03.00 Site Electrical, Duct Bank	600.00 LF	159	17,380	10,662				46.74 /LF	28,043	74.08 /LF	44,449
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, 600 kcmil, type XHHW, in raceway	78.00 clf	480	50,072	165,750	-	-	-	2,766.95 /clf	215,822	4,463.53 /clf	348,156
					26.15.01.00 Process Electrical, Wire/Cable	78.00 clf	480	50,072	165,750				2,766.95 /clf	215,822	4,463.53 /clf	348,156
				26.15.11.00	Process Electrical, Grounding											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.92 /ea	1,824
					Ground wire, copper wire, bare stranded, 4/0	5.00 clf	14	1,464	2,100	-	-	-	712.82 /clf	3,564	1,140.65 /clf	5,703
					26.15.11.00 Process Electrical, Grounding	5.00 clf	23	2,409	2,316				944.97 /clf	4,725	1,505.36 /clf	7,527
					26.02.LV LV UG Conduits	***1.00*** **LS**	**662**	**69,861**	**178,728**				**248,589.68 /LS**	**248,590**	**400,131.22 /LS**	**400,131**
			26.02.PRI		**Primary Feeds fromSubstation**											
				26.10.03.00	Site Electrical, Duct Bank											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	59	6,933	7,500	-	-	-	2,886.69 /ton	14,433	4,604.71 /ton	23,024
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	600.00 LF	30	3,130	1,896	-	-	-	8.38 /LF	5,026	13.27 /LF	7,965
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	28	2,967	736	-	-	-	115.73 /ea	3,703	181.91 /ea	5,821
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	18	1,908	317	-	-	-	69.51 /ea	2,224	108.98 /ea	3,487
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	120.00 ea	23	2,443	214	-	-	-	22.13 /ea	2,656	34.60 /ea	4,152
					26.10.03.00 Site Electrical, Duct Bank	600.00 LF	159	17,380	10,662				46.74 /LF	28,043	74.08 /LF	44,449
				26.15.01.00	Process Electrical, Wire/Cable											
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 4/0, in conduit, excl splicing & terminations	78.00 clf	390	40,684	51,480	-	-	-	1,181.59 /clf	92,164	1,888.14 /clf	147,275
					26.15.01.00 Process Electrical, Wire/Cable	78.00 clf	390	40,684	51,480				1,181.59 /clf	92,164	1,888.14 /clf	147,275
				26.15.11.00	Process Electrical, Grounding											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.92 /ea	1,824
					Ground wire, copper wire, bare stranded, 4/0	5.00 clf	14	1,464	2,100	-	-	-	712.82 /clf	3,564	1,140.65 /clf	5,703
					26.15.11.00 Process Electrical, Grounding	5.00 clf	23	2,409	2,316				944.97 /clf	4,725	1,505.36 /clf	7,527
				31.20.07.15	Earthworks, Sitework, Borrow											
					Concrete (red) envelope/encasement, poured neat	363.33 CY	727	66,606	28,158	-	130	-	261.18 /CY	94,895	412.40 /CY	149,838
					End bulkheads, plywood, concrete envelope/encasement	320.00 sf	38	4,001	234	-	-	-	13.23 /sf	4,235	20.66 /sf	6,613
					31.20.07.15 Earthworks, Sitework, Borrow	0.00	765	70,608	28,392		130		/tons	99,130	/tons	156,451
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	1,253.50 CY	21	2,443	-	-	16,494	-	15.11 /CY	18,937	23.53 /CY	29,493
					31.20.09.10 Earthworks, Sitework, Backfill	1,253.50 CY	21	2,443			16,494		15.11 /CY	18,937	23.53 /CY	29,493
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 1/4 mile round trip, 5.0 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	1,670.95 CY	69	6,800	-	-	3,558	-	6.20 /CY	10,358	9.65 /CY	16,132
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	1,670.95 CY	69	6,800			3,558		6.20 /CY	10,358	9.65 /CY	16,132
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	1,453.33 CY	78	8,574	-	-	42,404	-	35.08 /CY	50,977	54.63 /CY	79,396
					31.25.01.00 Earthworks, Structural, Excavation	1,453.33 CY	78	8,574			42,404		35.08 /CY	50,977	54.63 /CY	79,396
					26.02.PRI Primary Feeds fromSubstation	**600.00 LF**	**1,505**	**148,897**	**92,850**		**62,586**		**507.22 /LF**	**304,333**	**801.21 /LF**	**480,724**
			26.04.MVBUS		**Medium Voltage Overhead Bus Duct 2000A**											
				26.00.99.00	Electrical, Other											
					Cable terminations, indoor, insulation diameter range, 15 kV, .975" to 1.570", pad mount	93.00 ea	124	12,935	21,297	-	-	-	368.09 /ea	34,232	589.89 /ea	54,860
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	40.00 hr	40	4,173	2,000	-	1,000	-	179.32 /hr	7,173	282.91 /hr	11,316
					Threaded rod, steel, painted, 1/2" diameter	768.00 lf	44	4,578	5,184	-	-	-	12.71 /lf	9,762	20.29 /lf	15,580
					Nuts, galvanized steel, 1/2" diameter	16.00 c		-	744	-	-	-	46.50 /c	744	75.79 /c	1,213
					Channels, steel, 1-1/2" x 1-1/2"	896.00 lf	102	10,682	3,297	-	-	-	15.60 /lf	13,979	24.57 /lf	22,012
					Spring nuts, steel channel, long, 1/2"	1,024.00 ea	102	10,682	850	-	-	-	11.26 /ea	11,532	17.60 /ea	18,022
					26.00.99.00 Electrical, Other	***1.00*** **LS**	413	43,050	33,372		1,000		77,422.34 /LS	77,422	123,003.23 /LS	123,003
				26.15.04.00	Process Electrical, Bus Duct											
					Bus duct, copper, 3 pole 3 wire, 2000 amp	354.00 LF	472	49,238	531,000	-	-	-	1,639.09 /LF	580,238	2,661.60 /LF	942,206
					Bus duct, copper, 3 pole 3 wire, elbow, 2000 amp V	17.00 ea	136	14,187	85,000	-	-	-	5,834.54 /ea	99,187	9,449.67 /ea	160,644
					Bus duct, copper, 3 pole 3 wire, elbow, 2000 amp H	8.00 ea	64	6,676	40,000	-	-	-	5,834.54 /ea	46,676	9,449.67 /ea	75,597
					Bus duct fittings, flange, wall, with vapor barrier, 2000 amp	6.00 ea	24	2,504	5,100	-	-	-	1,267.27 /ea	7,604	2,035.37 /ea	12,212
					Bus duct fittings, switchboard stub, 3 pole, 3 wire, 2000 amp	6.00 ea	40	4,173	30,000	-	-	-	5,695.45 /ea	34,173	9,233.04 /ea	55,398
					Substation feeder ducbank terminal enclosure	6.00 ea	40	4,173	30,000	-	-	-	5,695.45 /ea	34,173	9,233.04 /ea	55,398
					Bus duct fittings, hanger, spring type, 2000 amp	128.00 ea	171	17,803	19,200	-	-	-	289.09 /ea	37,003	461.13 /ea	59,024
					26.15.04.00 Process Electrical, Bus Duct	354.00 LF	947	98,753	740,300				2,370.21 /LF	839,053	3,843.17 /LF	1,360,481
				26.25.03.00	Electrical Equipment, Switchgear - General											
					Hi-Pot Test 15 KV	93.00 E	186	19,403	-	18,600	-	-	408.63 /E	38,003	576.44 /E	53,609
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00*** **LS**	186	19,403		18,600			38,002.96 /LS	38,003	53,608.84 /LS	53,609
					26.04.MVBUS Medium Voltage Overhead Bus Duct 2000A	**354.00 LF**	**1,545**	**161,207**	**773,672**	**18,600**	**1,000**		**2,696.27 /LF**	**954,479**	**4,342.07 /LF**	**1,537,093**
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	Process Electrical, Grounding											
					Copper Bus Bar .25"x 3.0"	10.00 lf	3	261	529	-	-	-	78.98 /lf	790	126.84 /lf	1,268
					Copper Bus Bar Supports	6.00 E	6	626	290	-	-	-	152.62 /E	916	241.20 /E	1,447
					Ground wire, copper wire, bare stranded, 4/0	3.50 clf	10	1,025	1,470	-	-	-	712.82 /clf	2,495	1,140.66 /clf	3,992
					Exothermic weld	12.00 ea	18	1,878	113	-	-	-	165.93 /ea	1,991	259.11 /ea	3,109
					26.15.11.00 Process Electrical, Grounding	3.50 clf	36	3,789	2,402				1,768.99 /clf	6,191	2,804.93 /clf	9,817
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**36**	**3,789**	**2,402**				**6,191.47 /LS**	**6,191**	**9,817.26 /LS**	**9,817**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	Electrical, Other											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	250.00 lf	25	2,608	1,288	-	-	-	15.58 /lf	3,895	24.64 /lf	6,160
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	20.00 ea	8	835	67	-	-	-	45.10 /ea	902	70.48 /ea	1,410
					Outlet boxes, pressed steel, covers, blank, 4" square	20.00 ea	3	261	15	-	-	-	13.81 /ea	276	21.56 /ea	431
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**36**	**3,703**	**1,370**				**5,073.56 /LS**	**5,074**	**8,001.30 /LS**	**8,001**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	7.00 clf	5	531	96	-	-	-	89.57 /clf	627	140.49 /clf	983
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	2.00 clf	2	167	41	-	-	-	103.96 /clf	208	163.40 /clf	327
					26.15.01.00 Process Electrical, Wire/Cable	**9.00 clf**	**7**	**698**	**137**				**92.76 /clf**	**835**	**145.58 /clf**	**1,310**
				26.20.03.00	Facility Electrical, Lighting											
					LED Strip Light, hdwe	24.00 ea	34	3,514	2,640	-	-	-	256.41 /ea	6,154	407.33 /ea	9,776
					Emergency ballast, material only, interior, factory installed in fixture	8.00 ea		-	1,216	-	-	-	152.00 /ea	1,216	247.76 /ea	1,982
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	3.00 ea	3	313	210	-	-	-	174.32 /ea	523	276.58 /ea	830
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	24.00 ea	6	626	131	-	-	-	31.53 /ea	757	49.50 /ea	1,188
					26.20.03.00 Facility Electrical, Lighting	***1.00*** **LS**	**43**	**4,453**	**4,197**				**8,649.49 /LS**	**8,649**	**13,775.67 /LS**	**13,776**
					26.25.LTG Interior Lighting and Control	***1.00*** **LS**	**85**	**8,854**	**5,704**				**14,557.93 /LS**	**14,558**	**23,087.21 /LS**	**23,087**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	250.00 lf	15	1,605	268	-	-	-	7.49 /lf	1,872	11.74 /lf	2,936
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	8.00 ea	3	334	27	-	-	-	45.10 /ea	361	70.48 /ea	564
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.56 /ea	173
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**20**	**2,043**	**301**				**2,343.63 /LS**	**2,344**	**3,671.94 /LS**	**3,672**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	11.00 clf	8	835	151	-	-	-	89.57 /clf	985	140.49 /clf	1,545
					26.15.01.00 Process Electrical, Wire/Cable	**11.00 clf**	**8**	**835**	**151**				**89.57 /clf**	**985**	**140.49 /clf**	**1,545**
				26.15.07.00	Lighting											
					LED Area Light	8.00 E	16	1,669	***4,000***	-	-	-	708.63 /E	5,669	1,139.93 /E	9,119
					Wallpack Photocell	8.00 E	16	1,669	2,400	-	-	-	508.63 /E	4,069	813.94 /E	6,512
					26.15.07.00 Lighting	***1.00*** **LS**	**32**	**3,338**	**6,400**				**9,738.14 /LS**	**9,738**	**15,630.96 /LS**	**15,631**
					26.26.EXTLTG Exterior Lighting and Control	***1.00*** **LS**	**60**	**6,216**	**6,851**				**13,067.01 /LS**	**13,067**	**20,848.33 /LS**	**20,848**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	700.00 lf	70	7,302	3,605	-	-	-	15.58 /lf	10,907	24.64 /lf	17,249
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	24.00 ea	16	1,669	528	-	-	-	91.54 /ea	2,197	144.17 /ea	3,460
					Duplex receptacle, grounded, 120 volt, 20 amp	12.00 ea	4	371	128	-	-	-	41.56 /ea	499	65.50 /ea	786
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.49 /ea	1,458
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.94 /ea	1,091
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**95**	**9,880**	**5,311**				**15,190.77 /LS**	**15,191**	**24,044.34 /LS**	**24,044**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	30.00 clf	22	2,276	411	-	-	-	89.57 /clf	2,687	140.49 /clf	4,215
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	4.00 clf	3	334	82	-	-	-	103.95 /clf	416	163.39 /clf	654
					26.15.01.00 Process Electrical, Wire/Cable	**34.00 clf**	**25**	**2,610**	**493**				**91.26 /clf**	**3,103**	**143.19 /clf**	**4,868**
					26.30.DEV Device Outlets	***1.00*** **LS**	**120**	**12,490**	**5,804**				**18,293.59 /LS**	**18,294**	**28,912.67 /LS**	**28,913**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	40.00 hr	40	4,173	2,000	-	1,000	-	179.32 /hr	7,173	282.91 /hr	11,316
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**40**	**4,173**	**2,000**		**1,000**		**7,172.68 /LS**	**7,173**	**11,316.29 /LS**	**11,316**
				26.15.10.00	Process Electrical, Lightning Protection											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	9.00 ea	9	939	234	-	-	-	130.32 /ea	1,173	204.85 /ea	1,844
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	450.00 lf	11	1,174	1,431	-	-	-	5.79 /lf	2,605	9.25 /lf	4,160
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.81 /LS	20,124
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**55**	**5,764**	**6,665**	**5,000**			**17,428.52 /LS**	**17,429**	**26,127.80 /LS**	**26,128**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**95**	**9,936**	**8,665**	**5,000**	**1,000**		**24,601.20 /LS**	**24,601**	**37,444.09 /LS**	**37,444**
					26.20 Facility Electrical	***1.00*** **LS**	**4,109**	**421,250**	**1,074,677**	**23,600**	**64,586**		**1,584,112.40 /LS**	**1,584,112**	**2,538,057.28 /LS**	**2,538,057**
		26.25			Electrical Equipment											
			26.03.LVSWBD		**LV Switchboards**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	80.00 hr	80	8,345	4,000	-	2,000	-	179.32 /hr	14,345	282.91 /hr	22,633
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**80**	**8,345**	**4,000**		**2,000**		**14,345.36 /LS**	**14,345**	**22,632.61 /LS**	**22,633**
				26.25.03.00	Electrical Equipment, Switchgear - General											
					LV SWBD-A	6,600.00 FA	165	17,212	165,000	-	4,125	-	28.23 /FA	186,337	45.78 /FA	302,179
					LV SWBD-B	7,500.00 FA	188	19,559	187,500	-	4,688	-	28.23 /FA	211,747	45.78 /FA	343,385
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00*** **LS**	**353**	**36,772**	**352,500**		**8,813**		**398,084.25 /LS**	**398,084**	**645,564.45 /LS**	**645,564**
					26.03.LVSWBD LV Switchboards	***1.00*** **LS**	**433**	**45,117**	**356,500**		**10,813**		**412,429.61 /LS**	**412,430**	**668,197.06 /LS**	**668,197**
			26.03.MVSWGR		**MV Switchgear**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	80.00 hr	80	8,345	4,000	-	2,000	-	179.32 /hr	14,345	282.91 /hr	22,633
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**80**	**8,345**	**4,000**		**2,000**		**14,345.36 /LS**	**14,345**	**22,632.62 /LS**	**22,633**
				26.25.03.00	Electrical Equipment, Switchgear - General											
					MV SWGR-A	16,800.00 FA	420	43,813	907,200	-	10,500	-	57.23 /FA	961,513	93.05 /FA	1,563,309
					MV SWGR-B	15,600.00 FA	390	40,684	904,800	-	9,750	-	61.23 /FA	955,234	99.57 /FA	1,553,355
					MV SWGR-C	7,600.00 FA	190	19,820	410,400	-	4,750	-	57.23 /FA	434,970	93.05 /FA	707,211
					MV SWGR-C paralleling relays	7,600.00 FA	76	7,928	106,400	-	1,900	-	15.29 /FA	116,228	24.83 /FA	188,737
					Control Panels	5.00 EA	320	33,381	50,000	-	8,000	-	18,276.29 /EA	91,381	29,189.95 /EA	145,950
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00*** **LS**	**1,396**	**145,627**	**2,378,800**		**34,900**		**2,559,326.53 /LS**	**2,559,327**	**4,158,562.58 /LS**	**4,158,563**
					26.03.MVSWGR MV Switchgear	**47,600.00 FA**	**1,476**	**153,972**	**2,382,800**		**36,900**		**54.07 /FA**	**2,573,672**	**87.84 /FA**	**4,181,195**
			26.03.SWGREQ		**Station Aux Xfmr, Btty**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	24.00 hr	24	2,504	1,200	-	600	-	179.32 /hr	4,304	282.91 /hr	6,790

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**24**	**2,504**	**1,200**		**600**		**4,303.61 /LS**	**4,304**	**6,789.79 /LS**	**6,790**
				26.25.01.00	**Station Equipment**											
					Control batteries	50.00 kah	200	21,389	27,000	-	8,504	-	1,137.86 /kah	56,893	1,811.34 /kah	90,567
					Conversion equipment, station service transformers	1.00 ea	10	1,069	105,000	-	425	-	106,494.65 /ea	106,495	173,475.77 /ea	173,476
					26.25.01.00 Station Equipment	***1.00*** **LS**	**210**	**22,458**	**132,000**		**8,929**		**163,387.68 /LS**	**163,388**	**264,043.01 /LS**	**264,043**
					26.03.SWGREQ Station Aux Xfmr, Btty	***1.00*** **LS**	**234**	**24,962**	**133,200**		**9,529**		**167,691.29 /LS**	**167,691**	**270,832.80 /LS**	**270,833**
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	4	371	138	-	-	-	12.73 /lf	509	20.08 /lf	803
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.16 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.76 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.56 /ea	81
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.88 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.49 /ea	131
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.41 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	20	2,086	2,125	-	-	-	4,211.34 /ea	4,211	6,713.15 /ea	6,713
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,365.71 /ea	11,366
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,077.19 /ea	13,077
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**83**	**8,676**	**11,744**				**20,420.12 /LS**	**20,420**	**32,655.38 /LS**	**32,655**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.25 clf	0	32	14	-	-	-	182.92 /clf	46	288.84 /clf	72
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.15 clf	0	24	12	-	-	-	235.00 /clf	35	371.73 /clf	56
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	1.00 clf	2	209	159	-	-	-	367.63 /clf	368	584.10 /clf	584
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	0.60 clf	2	228	231	-	-	-	764.33 /clf	459	1,218.33 /clf	731
					26.15.01.00 Process Electrical, Wire/Cable	**2.00 clf**	**5**	**492**	**415**				**453.61 /clf**	**907**	**721.54 /clf**	**1,443**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, 3 phase 15 kV primary 277/480 volt secondary, 1500 kVA	2.00 EA	148	16,566	113,000	-	1,458	-	65,512.00 /EA	131,024	106,129.87 /EA	212,260
					26.25.06.00 Transformers, Dry Type	**2.00 EA**	**148**	**16,566**	**113,000**		**1,458**		**65,512.00 /EA**	**131,024**	**106,129.87 /EA**	**212,260**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**236**	**25,734**	**125,160**		**1,458**		**152,351.33 /LS**	**152,351**	**246,358.19 /LS**	**246,358**
					26.25 Electrical Equipment	***1.00*** **LS**	**2,379**	**249,785**	**2,997,659**		**58,700**		**3,306,144.12 /LS**	**3,306,144**	**5,366,583.25 /LS**	**5,366,583**
					26.0 Electrical Work	***1.00*** **LS**	**6,739**	**698,235**	**4,270,751**	**38,600**	**124,762**		**5,132,348.55 /LS**	**5,132,349**	**8,291,579.08 /LS**	**8,291,579**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				31.20.07.15	**Earthworks, Sitework, Borrow**											
					Concrete (red) envelope/encasement, poured neat	8.90 CY	18	1,632	690	-	16	-	262.62 /CY	2,338	414.64 /CY	3,692
					End bulkheads, plywood, concrete envelope/encasement	1.07 sf	0	13	1	-	-	-	13.23 /sf	14	20.67 /sf	22
					31.20.07.15 Earthworks, Sitework, Borrow	**0.00**	**18**	**1,645**	**691**		**16**		**/tons**	**2,352**	**/tons**	**3,714**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	116.05 CY	2	226	-	-	3,054	-	28.26 /CY	3,280	44.02 /CY	5,109
					31.20.09.10 Earthworks, Sitework, Backfill	**116.05 CY**	**2**	**226**			**3,054**		**28.26 /CY**	**3,280**	**44.02 /CY**	**5,109**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	9.87 CY	1	98	-	-	105	-	20.57 /CY	203	32.03 /CY	316
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**9.87 CY**	**1**	**98**			**105**		**20.57 /CY**	**203**	**32.03 /CY**	**316**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	125.92 CY	7	743	-	-	3,674	-	35.08 /CY	4,417	54.63 /CY	6,879
					31.25.01.00 Earthworks, Structural, Excavation	**125.92 CY**	**7**	**743**			**3,674**		**35.08 /CY**	**4,417**	**54.63 /CY**	**6,879**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**28**	**2,712**	**691**		**6,849**		**10,251.88 /LS**	**10,252**	**16,017.18 /LS**	**16,017**
					27.00 Telecommunications	***1.00*** **LS**	**28**	**2,712**	**691**		**6,849**		**10,251.88 /LS**	**10,252**	**16,017.18 /LS**	**16,017**
					27.0 Telecommunications - Network	***1.00*** **LS**	**28**	**2,712**	**691**		**6,849**		**10,251.88 /LS**	**10,252**	**16,017.18 /LS**	**16,017**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.74 /lf	21,371
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.48 /ea	846
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.56 /ea	259
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**118**	**12,341**	**1,997**				**14,337.79 /LS**	**14,338**	**22,475.61 /LS**	**22,476**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.79 /clf	34,738
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.79 /clf**	**34,738**
				28.35.01.00	**Electronic Safety and Security**											
					Detection Systems, fire alarm control panel, alarm device, excluding wires & conduits	12.00 ea	12	1,252	2,760	-	-	-	334.32 /ea	4,012	537.37 /ea	6,448
					Detection Systems, fire alarm control panel, actuating device, excluding wires & conduits	4.00 ea	4	417	1,360	-	-	-	444.32 /ea	1,777	716.67 /ea	2,867
					Detection Systems, fire alarm control panel, addressable without voice, up to 200 points, excluding wires & conduits, inluding vendor design, startup	1.00 ea	14	1,460	4,575	2,500	-	-	8,535.26 /ea	8,535	12,875.19 /ea	12,875
					Detection Systems, fire alarm control panel, battery & rack, excluding wires & conduits	1.00 ea	2	209	460	-	-	-	668.63 /ea	669	1,074.72 /ea	1,075
					Detection Systems, fire alarm control panel, battery & rack, automatic charger, excluding wires & conduits	1.00 ea	1	104	525	-	-	-	629.32 /ea	629	1,018.21 /ea	1,018
					Detection Systems, visual alarm, ADA type, excluding wires & conduits	12.00 ea	14	1,495	1,428	-	-	-	243.56 /ea	2,923	387.96 /ea	4,656
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**47**	**4,937**	**11,108**	**2,500**			**18,544.97 /LS**	**18,545**	**28,938.75 /LS**	**28,939**
					28.10.FA Fire Alarm System	***1.00*** **LS**	**350**	**36,536**	**16,015**	**2,500**			**55,051.28 /LS**	**55,051**	**86,152.36 /LS**	**86,152**
			28.20.AC		**Access Control System**											
				28.35.01.00	**Electronic Safety and Security**											
					Card reader - all in allowance per each (incl circuit, cards, CX)	3.00 ea	36	3,755	2,400	-	-	-	2,051.80 /ea	6,155	3,253.64 /ea	9,761

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**36**	**3,755**	**2,400**				**6,155.41 /LS**	**6,155**	**9,760.92 /LS**	**9,761**
					28.20.AC Access Control System	***1.00*** **LS**	**36**	**3,755**	**2,400**				**6,155.41 /LS**	**6,155**	**9,760.92 /LS**	**9,761**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Closed circuit television system (CCTV), industrial quality, for additional camera stations, add	1.00 ea	3	309	690	-	-	-	999.09 /ea	999	1,606.09 /ea	1,606
					Closed circuit television system (CCTV), industrial quality, for weatherproof camera station, add	1.00 ea	6	642	540	-	-	-	1,181.95 /ea	1,182	1,880.03 /ea	1,880
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	80	8,345	10,000	10,000	-	-	28,345.36 /LS	28,345	41,872.32 /LS	41,872
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**89**	**9,296**	**11,230**	**10,000**			**30,526.40 /LS**	**30,526**	**45,358.44 /LS**	**45,358**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**89**	**9,296**	**11,230**	**10,000**			**30,526.40 /LS**	**30,526**	**45,358.44 /LS**	**45,358**
			28.20.ID		**Intrusion Detection System**											
				28.35.01.00	**Electronic Safety and Security**											
					Securitized door, all-in allowance per each (incl circuit, devices, CX)	3.00 ea	60	6,259	3,000	-	-	-	3,086.34 /ea	9,259	4,879.41 /ea	14,638
					Door controller (all-in cost including vendor program and startup)	1.00 ea	5	522	2,000	500	-	-	3,021.59 /ea	3,022	4,701.06 /ea	4,701
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**65**	**6,781**	**5,000**	**500**			**12,280.61 /LS**	**12,281**	**19,339.30 /LS**	**19,339**
					28.20.ID Intrusion Detection System	***1.00*** **LS**	**65**	**6,781**	**5,000**	**500**			**12,280.61 /LS**	**12,281**	**19,339.30 /LS**	**19,339**
					28.00 Electronic Safety and Security	***1.00*** **LS**	**540**	**56,369**	**34,645**	**13,000**			**104,013.70 /LS**	**104,014**	**160,611.02 /LS**	**160,611**
					28.0 Electronic Safety and Security	***1.00*** **LS**	**540**	**56,369**	**34,645**	**13,000**			**104,013.70 /LS**	**104,014**	**160,611.02 /LS**	**160,611**
					2160 Funks PGP Switchgear Building	***1.00*** **LS**	**8,651**	**900,156**	**4,602,243**	**55,717**	**136,993**		**5,695,108.62 /LS**	**5,695,109**	**9,128,022.85 /LS**	**9,128,023**
2165					**Funks PGP Generating Plant**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.005		**4'-0" thick Mat Slab on Grade**											
				03.10.05.48	**Cast-In-Place Concrete, Slabs on Grade, 48" thick**											
					Fine grade, for slab on grade, by hand	5,898.00 sf	41	3,732	177	-	-	-	0.66 /sf	3,909	0.97 /sf	5,710
					Fill, gravel subbase, under building slab on grade	436.89 cy	218	19,745	12,233	-	-	-	73.19 /cy	31,978	108.71 /cy	47,494
					Concrete pumping, subcontract, all inclusive price	874.00 cy		-	-	21,850	-	-	25.00 /cy	21,850	36.44 /cy	31,846
					Base slab edge forms, 36" to 48"	1,356.00 sf	339	36,728	1,831	-	-	-	28.44 /sf	38,558	41.54 /sf	56,331
					Base slab sump forms	128.00 sf	32	3,467	160	-	-	-	28.34 /sf	3,627	41.39 /sf	5,298
					Keyway form	339.00 lf	51	5,509	170	-	-	-	16.75 /lf	5,679	24.45 /lf	8,289
					Expansion joint material, closed cell neoprene, 1"	1,356.00 sf	41	4,407	8,136	-	-	-	9.25 /sf	12,543	13.92 /sf	18,871
					Waterstop, PVC, center bulb, 9" wide	339.00 lf	27	2,938	1,017	-	-	-	11.67 /lf	3,955	17.22 /lf	5,838
					Concrete, ready mix, 4500 psi	874.00 CY		-	192,280	-	-	-	220.00 /CY	192,280	336.60 /CY	294,185
					Add for concrete waste, 4500 psi	27.00 cy		-	5,940	-	-	-	220.00 /cy	5,940	336.60 /cy	9,088
					Placing concrete, concrete pump, for base slab 36" to 48"	874.00 cy	857	77,489	-	-	-	-	88.66 /cy	77,489	129.22 /cy	112,938
					Finishing floors, monolithic, trowel finish (machine)	5,898.00 sf	118	10,775	118	-	-	-	1.85 /sf	10,893	2.69 /sf	15,884
					Construction Joint Prep.	1,356.00 sf	108	9,805	68	-	-	-	7.28 /sf	9,873	10.62 /sf	14,395
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	339.00 lf		-	-	1,017	-	-	3.00 /lf	1,017	4.37 /lf	1,482
					Contraction Joint Option, Slabs, Preformed Joint	339.00 lf		-	678	-	-	-	2.00 /lf	678	3.06 /lf	1,037
					Curing, membrane spray	5,898.00 sf	12	1,066	236	-	-	-	0.22 /sf	1,302	0.32 /sf	1,915
					Perimeter insulation, polystyrene, 2" thick, R8	1,356.00 sf	16		786	-	-	-	0.58 /sf	786	0.89 /sf	1,203
					Polyethelene vapor barrier, 10 mil thick	58.98 sq	13	1,398	625	-	-	-	34.30 /sq	2,023	50.76 /sq	2,994
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	76.50 ton	1,224	143,210	114,750	-	-	-	3,372.03 /ton	257,960	5,023.42 /ton	384,292
					Reinforcing in place, unloading & sorting, add to above - slabs	76.50 ton	43	5,107	-	-	1,774	-	89.94 /ton	6,881	131.09 /ton	10,028
					Reinforcing steel, crane cost for handling, average, add	76.50 ton	47	5,551	-	-	1,928	-	97.76 /ton	7,479	142.49 /ton	10,900
					03.10.05.48 Cast-In-Place Concrete, Slabs on Grade, 48" thick	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,189.95 /CY**	**1,040,019**
					MOA-03.20.005 4'-0" thick Mat Slab on Grade	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,189.95 /CY**	**1,040,019**
		03.18			**Cast-In-Place Concrete, Slabs on Grade**	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,189.95 /CY**	**1,040,019**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			MOA-03.25.011		**1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade**											
				03.10.00.12	**Concrete, Cast-in-Place, Grade Walls, 12" Wide**											
					Concrete pumping, subcontract, all inclusive price	56.00 cy		-	-	1,400	-	-	25.00 /cy	1,400	36.44 /cy	2,040
					Forms in place, structural walls, > 8' to 16' high, hand set	2,995.95 sf	599	64,917	3,745	-	-	-	22.92 /sf	68,662	33.49 /sf	100,345
					Concrete, ready mix, 4500 psi	56.00 CY		-	12,320	-	-	-	220.00 /CY	12,320	336.60 /CY	18,849
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump, for structural wall to 12" thick	56.00 cy	67	6,094	-	-	-	-	108.81 /cy	6,094	158.59 /cy	8,881
					Patch & plug tieholes	2,995.95 sf	45	4,062	60	-	-	-	1.38 /sf	4,122	2.01 /sf	6,012
					Stone rub	2,995.95 sf	150	13,540	90	-	-	-	4.55 /sf	13,630	6.63 /sf	19,872
					Curing, membrane spray	2,995.95 sf	6	542	120	-	-	-	0.22 /sf	661	0.32 /sf	973
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	80	9,360	7,500	-	-	-	3,372.03 /ton	16,860	5,023.42 /ton	25,117
					Reinforcing in place, unloading & sorting, add to above - slabs	5.00 ton	3	334	-	-	116	-	89.94 /ton	450	131.09 /ton	655
					Reinforcing steel, crane cost for handling, average, add	5.00 ton	3	363	-	-	126	-	97.76 /ton	489	142.49 /ton	712
					03.10.00.12 Concrete, Cast-in-Place, Grade Walls, 12" Wide	**56.00 CY**	**953**	**99,211**	**24,275**	**1,400**	**242**		**2,234.42 /CY**	**125,127**	**3,288.05 /CY**	**184,131**
					MOA-03.25.011 1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade	**56.00 CY**	**953**	**99,211**	**24,275**	**1,400**	**242**		**2,234.42 /CY**	**125,127**	**3,288.05 /CY**	**184,131**
			MOA-03.25.012		**3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	1,660.00 cy		-	-	41,500	-	-	25.00 /cy	41,500	36.44 /cy	60,485
					Forms in place, structural walls, > 16' high, hand set	29,872.50 sf	5,078	550,191	40,328	-	-	-	19.77 /sf	590,519	28.91 /sf	863,593
					Concrete, ready mix, 4500 psi	1,660.00 CY		-	365,200	-	-	-	220.00 /CY	365,200	336.60 /CY	558,749
					Add for concrete waste, 4500 psi	50.00 cy		-	11,000	-	-	-	220.00 /cy	11,000	336.60 /cy	16,830
					Placing concrete, concrete pump, for structural wall >24" thick	1,660.00 cy	1,832	165,629	-	-	-	-	99.78 /cy	165,629	145.42 /cy	241,401
					Patch & plug tieholes	29,872.50 sf	448	40,502	597	-	-	-	1.38 /sf	41,100	2.01 /sf	59,945
					Stone rub	29,872.50 sf	1,494	135,007	896	-	-	-	4.55 /sf	135,903	6.63 /sf	198,142
					Curing, membrane spray	29,872.50 sf	60	5,400	1,195	-	-	-	0.22 /sf	6,595	0.32 /sf	9,699
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	145.50 ton	2,328	272,381	218,250	-	-	-	3,372.03 /ton	490,631	5,023.42 /ton	730,907
					Reinforcing in place, unloading & sorting, add to above - slabs	145.50 ton	81	9,713	-	-	3,374	-	89.94 /ton	13,087	131.09 /ton	19,074
					Reinforcing steel, crane cost for handling, average, add	145.50 ton	89	10,558	-	-	3,667	-	97.76 /ton	14,225	142.49 /ton	20,732
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**1,660.00 CY**	**11,410**	**1,189,381**	**637,466**	**41,500**	**7,041**		**1,129.75 /CY**	**1,875,388**	**1,674.43 /CY**	**2,779,556**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					MOA-03.25.012 3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade	**1,660.00 CY**	**11,410**	**1,189,381**	**637,466**	**41,500**	**7,041**		**1,129.75 /CY**	**1,875,388**	**1,674.43 /CY**	**2,779,556**
			MOA-03.25.013		**1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	1,082.00 cy		-	-	27,050	-	-	25.00 /cy	27,050	36.44 /cy	39,425
					Forms in place, structural walls, > 16' high, hand set	21,584.30 sf	3,669	397,539	29,139	-	-	-	19.77 /sf	426,678	28.91 /sf	623,987
					Concrete, ready mix, 4500 psi	1,082.00 CY		-	238,040	-	-	-	220.00 /CY	238,040	336.60 /CY	364,196
					Add for concrete waste, 4500 psi	33.00 cy		-	7,260	-	-	-	220.00 /cy	7,260	336.60 /cy	11,108
					Placing concrete, concrete pump, for structural wall to 12" thick	60.00 cy	72	6,529	-	-	-	-	108.81 /cy	6,529	158.59 /cy	9,516
					Placing concrete, concrete pump, for structural wall >24" thick	1,022.00 cy	1,128	101,971	-	-	-	-	99.78 /cy	101,971	145.42 /cy	148,621
					Patch & plug tieholes	21,584.30 sf	324	29,265	432	-	-	-	1.38 /sf	29,696	2.01 /sf	43,313
					Stone rub	21,584.30 sf	1,079	97,549	648	-	-	-	4.55 /sf	98,197	6.63 /sf	143,167
					Curing, membrane spray	21,584.30 sf	43	3,902	863	-	-	-	0.22 /sf	4,765	0.32 /sf	7,008
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	94.75 ton	1,516	177,375	142,125	-	-	-	3,372.03 /ton	319,500	5,023.42 /ton	475,969
					Reinforcing in place, unloading & sorting, add to above - slabs	94.75 ton	53	6,325	-	-	2,197	-	89.94 /ton	8,522	131.09 /ton	12,421
					Reinforcing steel, crane cost for handling, average, add	94.75 ton	58	6,875	-	-	2,388	-	97.76 /ton	9,263	142.49 /ton	13,501
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**1,082.00 CY**	**7,943**	**827,330**	**418,506**	**27,050**	**4,585**		**1,180.66 /CY**	**1,277,472**	**1,748.83 /CY**	**1,892,231**
					MOA-03.25.013 1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**1,082.00 CY**	**7,943**	**827,330**	**418,506**	**27,050**	**4,585**		**1,180.66 /CY**	**1,277,472**	**1,748.83 /CY**	**1,892,231**
			MOA-03.25.014		**1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	60.00 cy		-	-	1,500	-	-	25.00 /cy	1,500	36.44 /cy	2,186
					Forms in place, structural walls, > 16' high, hand set	3,202.50 sf	544	58,984	4,323	-	-	-	19.77 /sf	63,307	28.91 /sf	92,582
					Concrete, ready mix, 4500 psi	60.00 CY		-	13,200	-	-	-	220.00 /CY	13,200	336.60 /CY	20,196
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump, for structural wall to 12" thick	60.00 cy	72	6,529	-	-	-	-	108.81 /cy	6,529	158.59 /cy	9,516
					Patch & plug tieholes	3,202.50 sf	48	4,342	64	-	-	-	1.38 /sf	4,406	2.01 /sf	6,426
					Stone rub	3,202.50 sf	160	14,474	96	-	-	-	4.55 /sf	14,570	6.63 /sf	21,242
					Curing, membrane spray	3,202.50 sf	6	579	128	-	-	-	0.22 /sf	707	0.32 /sf	1,040
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.50 ton	88	10,296	8,250	-	-	-	3,372.03 /ton	18,546	5,023.42 /ton	27,629
					Reinforcing in place, unloading & sorting, add to above - slabs	5.50 ton	3	367	-	-	128	-	89.94 /ton	495	131.09 /ton	721
					Reinforcing steel, crane cost for handling, average, add	5.50 ton	3	399	-	-	139	-	97.76 /ton	538	142.49 /ton	784
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**60.00 CY**	**926**	**95,969**	**26,502**	**1,500**	**266**		**2,070.62 /CY**	**124,237**	**3,049.91 /CY**	**182,994**
					MOA-03.25.014 1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**60.00 CY**	**926**	**95,969**	**26,502**	**1,500**	**266**		**2,070.62 /CY**	**124,237**	**3,049.91 /CY**	**182,994**
			MOA-03.25.015		**2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	24.00 cy		-	-	600	-	-	25.00 /cy	600	36.44 /cy	874
					Forms in place, structural walls, > 16' high, hand set	630.00 sf	107	11,603	851	-	-	-	19.77 /sf	12,454	28.91 /sf	18,213
					Concrete, ready mix, 4500 psi	24.00 CY		-	5,280	-	-	-	220.00 /CY	5,280	336.60 /CY	8,078
					Add for concrete waste, 4500 psi	1.00 cy		-	220	-	-	-	220.00 /cy	220	336.59 /cy	337
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	24.00 cy	26	2,395	-	-	-	-	99.78 /cy	2,395	145.42 /cy	3,490
					Patch & plug tieholes	630.00 sf	9	854	13	-	-	-	1.38 /sf	867	2.01 /sf	1,264
					Stone rub	630.00 sf	32	2,847	19	-	-	-	4.55 /sf	2,866	6.63 /sf	4,179
					Curing, membrane spray	630.00 sf	1	114	25	-	-	-	0.22 /sf	139	0.32 /sf	205
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.25 ton	36	4,212	3,375	-	-	-	3,372.03 /ton	7,587	5,023.42 /ton	11,303
					Reinforcing in place, unloading & sorting, add to above - slabs	2.25 ton	1	150	-	-	52	-	89.94 /ton	202	131.09 /ton	295
					Reinforcing steel, crane cost for handling, average, add	2.25 ton	1	163	-	-	57	-	97.76 /ton	220	142.49 /ton	321
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**24.00 CY**	**214**	**22,339**	**9,782**	**600**	**109**		**1,367.91 /CY**	**32,830**	**2,023.25 /CY**	**48,558**
					MOA-03.25.015 2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**24.00 CY**	**214**	**22,339**	**9,782**	**600**	**109**		**1,367.91 /CY**	**32,830**	**2,023.25 /CY**	**48,558**
			MOA-03.25.016		**3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	263.00 cy		-	-	6,575	-	-	25.00 /cy	6,575	36.44 /cy	9,583
					Forms in place, structural walls, > 16' high, hand set	4,725.00 sf	803	87,025	6,379	-	-	-	19.77 /sf	93,404	28.91 /sf	136,596
					Concrete, ready mix, 4500 psi	263.00 CY		-	57,860	-	-	-	220.00 /CY	57,860	336.60 /CY	88,525
					Add for concrete waste, 4500 psi	8.00 cy		-	1,760	-	-	-	220.00 /cy	1,760	336.60 /cy	2,693
					Placing concrete, concrete pump, for structural wall >24" thick	263.00 cy	290	26,241	-	-	-	-	99.78 /cy	26,241	145.42 /cy	38,246
					Patch & plug tieholes	4,725.00 sf	71	6,406	95	-	-	-	1.38 /sf	6,501	2.01 /sf	9,482
					Stone rub	4,725.00 sf	236	21,354	142	-	-	-	4.55 /sf	21,496	6.63 /sf	31,340
					Curing, membrane spray	4,725.00 sf	9	854	189	-	-	-	0.22 /sf	1,043	0.32 /sf	1,534
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	23.10 ton	370	43,244	34,650	-	-	-	3,372.03 /ton	77,894	5,023.42 /ton	116,041
					Reinforcing in place, unloading & sorting, add to above - slabs	23.10 ton	13	1,542	-	-	536	-	89.94 /ton	2,078	131.09 /ton	3,028
					Reinforcing steel, crane cost for handling, average, add	23.10 ton	14	1,676	-	-	582	-	97.76 /ton	2,258	142.49 /ton	3,292
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**263.00 CY**	**1,807**	**188,343**	**101,074**	**6,575**	**1,118**		**1,129.70 /CY**	**297,110**	**1,674.37 /CY**	**440,360**
					MOA-03.25.016 3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade	**263.00 CY**	**1,807**	**188,343**	**101,074**	**6,575**	**1,118**		**1,129.70 /CY**	**297,110**	**1,674.37 /CY**	**440,360**
					03.20 Cast-In-Place Concrete, Straight Walls	**3,145.00 CY**	**23,253**	**2,422,573**	**1,217,605**	**78,625**	**13,361**		**1,186.70 /CY**	**3,732,164**	**1,757.66 /CY**	**5,527,830**
		03.23			**Cast-In-Place Concrete, Columns**											
			MOA-03.27.001		**2'-6" x 2'-6" CIP Column - CC01; 22'-3" high**											
				03.10.09.30	**Cast-In-Place Concrete, Columns, 30"**											
					Concrete pumping, subcontract, all inclusive price	67.00 cy		-	-	1,675	-	-	25.00 /cy	1,675	36.44 /cy	2,441
					Forms in place, columns, rectangular, over 18" sq.	2,892.50 sf	579	62,675	4,339	-	-	-	23.17 /sf	67,014	33.88 /sf	97,986
					Forms in place, column capitals, rectangular	117.00 sf	23	2,535	176	-	-	-	23.17 /sf	2,711	33.88 /sf	3,963
					Concrete, ready mix, 4500 psi	67.00 CY		-	14,740	-	-	-	220.00 /CY	14,740	336.60 /CY	22,552
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump	67.00 cy	98	8,828	-	-	-	-	131.77 /cy	8,828	192.05 /cy	12,867
					Stone rub	2,892.50 sf	145	13,073	87	-	-	-	4.55 /sf	13,159	6.63 /sf	19,186
					Curing, membrane spray	2,892.50 sf	6	523	116	-	-	-	0.22 /sf	639	0.32 /sf	939
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	17.00 ton	272	31,825	25,500	-	-	-	3,372.03 /ton	57,325	5,023.42 /ton	85,398
					Reinforcing in place, unloading & sorting, add to above - slabs	17.00 ton	10	1,135	-	-	394	-	89.94 /ton	1,529	131.09 /ton	2,229
					Reinforcing steel, crane cost for handling, average, add	17.00 ton	10	1,234	-	-	428	-	97.76 /ton	1,662	142.49 /ton	2,422
					03.10.09.30 Cast-In-Place Concrete, Columns, 30"	**67.00 CY**	**1,142**	**121,827**	**45,397**	**1,675**	**823**		**2,533.16 /CY**	**169,722**	**3,741.15 /CY**	**250,657**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					MOA-03.27.001 2'-6" x 2'-6" CIP Column - CC01; 22'-3" high	**67.00 CY**	**1,142**	**121,827**	**45,397**	**1,675**	**823**		**2,533.16 /CY**	**169,722**	**3,741.15 /CY**	**250,657**
			MOA-03.27.002		**3'-0" x 3'-0" CIP Column; 30'-4" high**											
				03.10.09.36	**Cast-In-Place Concrete, Columns, 36"**											
					Concrete pumping, subcontract, all inclusive price	41.00 cy		-	-	1,025	-	-	25.00 /cy	1,025	36.44 /cy	1,494
					Forms in place, columns, rectangular, over 18" sq.	1,455.84 sf	291	31,545	2,184	-	-	-	23.17 /sf	33,729	33.88 /sf	49,318
					Forms in place, column capitals, rectangular	42.00 sf	8	910	63	-	-	-	23.17 /sf	973	33.88 /sf	1,423
					Concrete, ready mix, 4500 psi	41.00 CY		-	9,020	-	-	-	220.00 /CY	9,020	336.60 /CY	13,800
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump	41.00 cy	60	5,403	-	-	-	-	131.77 /cy	5,403	192.05 /cy	7,874
					Stone rub	1,455.84 sf	73	6,580	44	-	-	-	4.55 /sf	6,623	6.63 /sf	9,656
					Curing, membrane spray	1,455.84 sf	3	263	58	-	-	-	0.22 /sf	321	0.32 /sf	473
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.00 ton	176	20,592	16,500	-	-	-	3,372.03 /ton	37,092	5,023.42 /ton	55,258
					Reinforcing in place, unloading & sorting, add to above - slabs	11.00 ton	6	734	-	-	255	-	89.94 /ton	989	131.09 /ton	1,442
					Reinforcing steel, crane cost for handling, average, add	11.00 ton	7	798	-	-	277	-	97.76 /ton	1,075	142.49 /ton	1,567
					03.10.09.36 Cast-In-Place Concrete, Columns, 36"	**41.00 CY**	**624**	**66,826**	**28,309**	**1,025**	**532**		**2,358.33 /CY**	**96,692**	**3,487.28 /CY**	**142,978**
					MOA-03.27.002 3'-0" x 3'-0" CIP Column; 30'-4" high	**41.00 CY**	**624**	**66,826**	**28,309**	**1,025**	**532**		**2,358.33 /CY**	**96,692**	**3,487.28 /CY**	**142,978**
					03.23 Cast-In-Place Concrete, Columns	**108.00 CY**	**1,766**	**188,653**	**73,705**	**2,700**	**1,355**		**2,466.79 /CY**	**266,413**	**3,644.77 /CY**	**393,636**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.002		**4'-0" thick CIP Concrete Roof Deck**											
				03.10.10.48	**Cast-In-Place Concrete, Elevated Deck, 48"**											
					Concrete pumping, subcontract, all inclusive price	1,090.00 cy		-	-	27,250	-	-	25.00 /cy	27,250	36.44 /cy	39,716
					Forms in place, elevated slab, soffit	7,356.00 sf	1,471	159,391	9,195	-	-	-	22.92 /sf	168,586	33.49 /sf	246,378
					Forms in place, elevated slab, edge form	1,676.00 sf	419	45,395	2,095	-	-	-	28.34 /sf	47,490	41.39 /sf	69,367
					Slab shoring	235,392.00 cf	1,648	178,518	11,770	-	-	-	0.81 /cf	190,288	1.18 /cf	278,194
					Expansion Board, asphalt impregnated fiber, 1"	1,680.00 sf	50	5,460	1,260	-	-	-	4.00 /sf	6,720	5.88 /sf	9,886
					Waterstop, hydro-flex	419.00 lf	2	227	1,676	-	-	-	4.54 /lf	1,903	6.91 /lf	2,895
					Concrete, ready mix, 4500 psi	1,090.00 CY		-	239,800	-	-	-	220.00 /CY	239,800	336.60 /CY	366,889
					Add for concrete waste, 4500 psi	33.00 cy		-	7,260	-	-	-	220.00 /cy	7,260	336.60 /cy	11,108
					Placing concrete, concrete pump, for elevated slab over 12" thick	1,090.00 cy	1,069	96,639	-	-	-	-	88.66 /cy	96,639	129.22 /cy	140,850
					Construction Joint Prep.	1,680.00 sf	134	12,148	84	-	-	-	7.28 /sf	12,232	10.62 /sf	17,834
					Curing, membrane spray	7,356.00 sf	15	1,330	294	-	-	-	0.22 /sf	1,624	0.32 /sf	2,388
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	95.50 ton	1,528	178,779	143,250	-	-	-	3,372.03 /ton	322,029	5,023.42 /ton	479,737
					Reinforcing in place, unloading & sorting, add to above - slabs	95.50 ton	53	6,375	-	-	2,214	-	89.94 /ton	8,590	131.09 /ton	12,519
					Reinforcing steel, crane cost for handling, average, add	95.50 ton	58	6,930	-	-	2,407	-	97.76 /ton	9,337	142.49 /ton	13,608
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	7,356.00 sf	103	9,391	-	-	375	-	1.33 /sf	9,766	1.93 /sf	14,233
					03.10.10.48 Cast-In-Place Concrete, Elevated Deck, 48"	**1,090.00 CY**	**6,551**	**700,584**	**416,684**	**27,250**	**4,996**		**1,054.60 /CY**	**1,149,514**	**1,564.77 /CY**	**1,705,603**
					MOA-03.30.002 4'-0" thick CIP Concrete Roof Deck	**1,090.00 CY**	**6,551**	**700,584**	**416,684**	**27,250**	**4,996**		**1,054.60 /CY**	**1,149,514**	**1,564.77 /CY**	**1,705,603**
			MOA-03.30.003		**2'-0" thick CIP Upper Floor**											
				03.10.10.24	**Cast-In-Place Concrete, Elevated Decks, 24" thick**											
					Concrete pumping, subcontract, all inclusive price	493.00 cy		-	-	12,325	-	-	25.00 /cy	12,325	36.44 /cy	17,963
					Forms in place, elevated slab, soffit	6,644.00 sf	1,329	143,964	8,305	-	-	-	22.92 /sf	152,269	33.49 /sf	222,530
					Forms in place, elevated slab, edge form	794.00 sf	199	21,506	993	-	-	-	28.34 /sf	22,498	41.39 /sf	32,863
					Slab shoring	225,896.00 cf	1,581	171,317	11,295	-	-	-	0.81 /cf	182,611	1.18 /cf	266,971
					Expansion joint material, closed cell neoprene, 1"	794.00 sf	24	2,581	4,764	-	-	-	9.25 /sf	7,345	13.92 /sf	11,050
					Concrete, ready mix, 4500 psi	493.00 CY		-	108,460	-	-	-	220.00 /CY	108,460	336.60 /CY	165,942
					Add for concrete waste, 4500 psi	15.00 cy		-	3,300	-	-	-	220.00 /cy	3,300	336.60 /cy	5,049
					Placing concrete, concrete pump, for elevated slab over 12" thick	493.00 cy	484	43,709	-	-	-	-	88.66 /cy	43,709	129.22 /cy	63,706
					Construction Joint Prep.	794.00 sf	64	5,742	40	-	-	-	7.28 /sf	5,781	10.62 /sf	8,429
					Curing, membrane spray	6,644.00 sf	13	1,201	266	-	-	-	0.22 /sf	1,467	0.32 /sf	2,157
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	43.25 ton	692	80,965	64,875	-	-	-	3,372.03 /ton	145,840	5,023.42 /ton	217,263
					Reinforcing in place, unloading & sorting, add to above - slabs	43.25 ton	24	2,887	-	-	1,003	-	89.94 /ton	3,890	131.09 /ton	5,670
					Reinforcing steel, crane cost for handling, average, add	43.25 ton	26	3,138	-	-	1,090	-	97.76 /ton	4,228	142.49 /ton	6,163
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	6,644.00 sf	93	8,482	-	-	338	-	1.33 /sf	8,820	1.93 /sf	12,855
					03.10.10.24 Cast-In-Place Concrete, Elevated Decks, 24" thick	**493.00 CY**	**4,528**	**485,491**	**202,297**	**12,325**	**2,431**		**1,425.04 /CY**	**702,544**	**2,106.72 /CY**	**1,038,611**
					MOA-03.30.003 2'-0" thick CIP Upper Floor	**493.00 CY**	**4,528**	**485,491**	**202,297**	**12,325**	**2,431**		**1,425.04 /CY**	**702,544**	**2,106.72 /CY**	**1,038,611**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**1,583.00 CY**	**11,080**	**1,186,075**	**618,981**	**39,575**	**7,427**		**1,169.97 /CY**	**1,852,058**	**1,733.55 /CY**	**2,744,213**
		03.25			**Cast-In-Place Concrete, Elevated Beams**											
			MOA-03.26.001		**36" x 24" CIP Beam - CB02**											
				03.10.11.36	**Cast-In-Place Concrete, Elevated Beams, 36"**											
					Concrete pumping, subcontract, all inclusive price	24.00 cy		-	-	600	-	-	25.00 /cy	600	36.44 /cy	874
					Forms in place, monolithic beam, bottom	216.00 sf	43	4,680	324	-	-	-	23.17 /sf	5,004	33.88 /sf	7,317
					Forms in place, monolithic beam, sides	648.00 sf	97	10,531	810	-	-	-	17.50 /sf	11,341	25.60 /sf	16,588
					Concrete, ready mix, 4500 psi	24.00 CY		-	5,280	-	-	-	220.00 /CY	5,280	336.60 /CY	8,078
					Add for concrete waste, 4500 psi	1.20 cy		-	264	-	-	-	220.00 /cy	264	336.60 /cy	404
					Placing concrete, concrete pump, for elevated slab to 12" thick	24.00 cy	25	2,237	-	-	-	-	93.19 /cy	2,237	135.82 /cy	3,260
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	48	5,616	4,500	-	-	-	3,372.03 /ton	10,116	5,023.42 /ton	15,070
					Reinforcing in place, unloading & sorting, add to above - slabs	3.00 ton	2	200	-	-	70	-	89.94 /ton	270	131.10 /ton	393
					Reinforcing steel, crane cost for handling, average, add	3.00 ton	2	218	-	-	76	-	97.76 /ton	293	142.49 /ton	427
					03.10.11.36 Cast-In-Place Concrete, Elevated Beams, 36"	**24.00 CY**	**217**	**23,482**	**11,178**	**600**	**145**		**1,475.20 /CY**	**35,405**	**2,183.84 /CY**	**52,412**
					MOA-03.26.001 36" x 24" CIP Beam - CB02	**24.00 CY**	**217**	**23,482**	**11,178**	**600**	**145**		**1,475.20 /CY**	**35,405**	**2,183.84 /CY**	**52,412**
			MOA-03.26.002		**48" x 36" CIP Beam - CB03**											
				03.10.11.48	**Cast-In-Place Concrete, Elevated Deck, 48"**											
					Concrete pumping, subcontract, all inclusive price	48.00 cy		-	-	1,200	-	-	25.00 /cy	1,200	36.44 /cy	1,749
					Forms in place, monolithic beam, bottom	324.00 sf	65	7,021	486	-	-	-	23.17 /sf	7,507	33.88 /sf	10,976
					Forms in place, monolithic beam, sides	864.00 sf	130	14,041	1,080	-	-	-	17.50 /sf	15,121	25.60 /sf	22,117
					Concrete, ready mix, 4500 psi	48.00 CY		-	10,560	-	-	-	220.00 /CY	10,560	336.60 /CY	16,157
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump, for elevated slab to 12" thick	48.00 cy	49	4,473	-	-	-	-	93.19 /cy	4,473	135.82 /cy	6,519
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	6.00 ton	96	11,232	9,000	-	-	-	3,372.03 /ton	20,232	5,023.42 /ton	30,141

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.11.48	Cast-In-Place Concrete, Elevated Deck, 48"											
					Reinforcing in place, unloading & sorting, add to above - slabs	6.00 ton	3	401	-	-	139	-	89.94 /ton	540	131.09 /ton	787
					Reinforcing steel, crane cost for handling, average, add	6.00 ton	4	435	-	-	151	-	97.76 /ton	587	142.49 /ton	855
					03.10.11.48 Cast-In-Place Concrete, Elevated Deck, 48"	48.00 CY	347	37,603	21,566	1,200	290		1,263.73 /CY	60,659	1,874.43 /CY	89,973
					MOA-03.26.002 48" x 36" CIP Beam - CB03	48.00 CY	347	37,603	21,566	1,200	290		1,263.73 /CY	60,659	1,874.43 /CY	89,973
			MOA-03.26.003		36" x 24" CIP Beam - CB04											
				03.10.11.36	Cast-In-Place Concrete, Elevated Beams, 36"											
					Concrete pumping, subcontract, all inclusive price	43.00 cy		-	-	1,075	-	-	25.00 /cy	1,075	36.44 /cy	1,567
					Forms in place, monolithic beam, bottom	384.00 sf	77	8,321	576	-	-	-	23.17 /sf	8,897	33.88 /sf	13,008
					Forms in place, monolithic beam, sides	1,152.00 sf	173	18,721	1,440	-	-	-	17.50 /sf	20,161	25.60 /sf	29,489
					Concrete, ready mix, 4500 psi	43.00 CY		-	9,460	-	-	-	220.00 /CY	9,460	336.60 /CY	14,474
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump, for elevated slab to 12" thick	43.00 cy	44	4,007	-	-	-	-	93.19 /cy	4,007	135.82 /cy	5,840
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.50 ton	88	10,296	8,250	-	-	-	3,372.03 /ton	18,546	5,023.42 /ton	27,629
					Reinforcing in place, unloading & sorting, add to above - slabs	5.50 ton	3	367	-	-	128	-	89.94 /ton	495	131.09 /ton	721
					Reinforcing steel, crane cost for handling, average, add	5.50 ton	3	399	-	-	139	-	97.76 /ton	538	142.49 /ton	784
					03.10.11.36 Cast-In-Place Concrete, Elevated Beams, 36"	43.00 CY	388	42,111	20,166	1,075	266		1,479.50 /CY	63,619	2,190.34 /CY	94,185
					MOA-03.26.003 36" x 24" CIP Beam - CB04	43.00 CY	388	42,111	20,166	1,075	266		1,479.50 /CY	63,619	2,190.34 /CY	94,185
					03.25 Cast-In-Place Concrete, Elevated Beams	115.00 CY	952	103,196	52,910	2,875	702		1,388.54 /CY	159,682	2,057.13 /CY	236,570
		03.60			Concrete Miscellaneous											
			03.00.200		Lean Concrete Fill											
				03.10.16.00	Cast-In-Place Concrete, Fill/Topping/Grouting											
					Lean Concrete,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	1,400.00 CY		-	210,000	-	-	-	150.00 /CY	210,000	229.50 /CY	321,296
					Lean concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	1,400.00 cy	1,461	93,636	-	-	18,290	-	79.95 /cy	111,927	116.52 /cy	163,131
					03.10.16.00 Cast-In-Place Concrete, Fill/Topping/Grouting	1,400.00 CY	1,461	93,636	210,000		18,290		229.95 /CY	321,927	346.02 /CY	484,426
					03.00.200 Lean Concrete Fill	1,400.00 CY	1,461	93,636	210,000		18,290		229.95 /CY	321,927	346.02 /CY	484,426
					03.60 Concrete Miscellaneous	*1.00* LS	1,461	93,636	210,000		18,290		321,926.57 /LS	321,927	484,426.49 /LS	484,426
					03.0 Concrete Work	7,225.00 CY	41,698	4,325,060	2,512,405	146,642	44,837		972.86 /CY	7,028,944	1,443.14 /CY	10,426,694
	03.2				Precast Concrete											
		03.40			Precast Concrete											
			03.54.000		Precast Concrete Removable Panels											
				03.54.03.00	Concrete Miscellaneous, Precast Concrete Panels											
					Precast concrete removable slab, 18" thick	1,762.00 SF	240	26,426	56,384	-	10,968	-	53.22 /SF	93,779	79.89 /SF	140,768
					Miscellaneous Items and Consumables Allowance	1.00 ls		3,000	5,000	-	2,000	-	10,000.00 /ls	10,000	14,937.30 /ls	14,937
					03.54.03.00 Concrete Miscellaneous, Precast Concrete Panels	1,762.00 SF	240	29,426	61,384		12,968		58.90 /SF	103,779	88.37 /SF	155,705
					03.54.000 Precast Concrete Removable Panels	1,762.00 SF	240	29,426	61,384		12,968		58.90 /SF	103,779	88.37 /SF	155,705
					03.40 Precast Concrete	*1.00* LS	240	29,426	61,384		12,968		103,778.52 /LS	103,779	155,705.46 /LS	155,705
					03.2 Precast Concrete	1,762.00 SF	240	29,426	61,384		12,968		58.90 /SF	103,779	88.37 /SF	155,705
	05.0				Metals											
		05.00			Metals											
			05.50.00.004		Aluminum Grating											
				05.50.05.00	Metals, Gratings											
					Grating frame, aluminum, 1" to 1-1/2" D, field fabricated	626.00 lf	72	8,873	3,161	-	-	-	19.22 /lf	12,034	27.42 /lf	17,167
					Floor grating, aluminum, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	630.00 SF	20	2,519	38,115	-	95	-	64.65 /SF	40,728	95.38 /SF	60,088
					Floor grating, aluminum, field fabricated from panels, for curved cuts, add	48.00 lf		-	271	-	-	-	5.65 /lf	271	8.36 /lf	401
					05.50.05.00 Metals, Gratings	630.00 SF	92	11,391	41,548		95		84.18 /SF	53,034	123.26 /SF	77,656
					05.50.00.004 Aluminum Grating	630.00 SF	92	11,391	41,548		95		84.18 /SF	53,034	123.26 /SF	77,656
			MOA-05.10.002		Metal Stairs											
				05.50.02.20	Metal Stairs, Metal Grating Stairs											
					Stair, shop fabricated, steel, 4'-0" W, incl pipe railing, stringers, grating treads w/ safety nosing, per riser	76.00 RISR	320	39,982	34,200	-	1,501	-	995.83 /RISR	75,683	1,434.23 /RISR	109,001
					Landing, Metal Grating	80.00 sf	64	7,996	6,800	-	300	-	188.71 /sf	15,097	271.76 /sf	21,741
					05.50.02.20 Metal Stairs, Metal Grating Stairs	76.00 RISR	384	47,979	41,000		1,801		1,194.46 /RISR	90,779	1,720.30 /RISR	130,743
					MOA-05.10.002 Metal Stairs	76.00 RISR	384	47,979	41,000		1,801		1,194.46 /RISR	90,779	1,720.30 /RISR	130,743
					05.00 Metals	*1.00* LS	476	59,370	82,548		1,895		143,812.81 /LS	143,813	208,398.33 /LS	208,398
		05.10			Structural Steel											
			MOA-05.10.001		Steel Roof Joist											
				05.20.01.00	Metals, Steel Joists											
					Open web joists, K series, to 30' span, average cost	2.00 TN		-	-	27,000	-	-	13,500.00 /TN	27,000	16,975.98 /TN	33,952
					05.20.01.00 Metals, Steel Joists	2.00 TN				27,000			13,500.00 /TN	27,000	16,975.98 /TN	33,952
					MOA-05.10.001 Steel Roof Joist	2.00 TN				27,000			13,500.00 /TN	27,000	16,975.98 /TN	33,952
					05.10 Structural Steel	*1.00* LS				27,000			27,000.00 /LS	27,000	33,951.96 /LS	33,952
					05.0 Metals	*1.00* LS	476	59,370	82,548	27,000	1,895		170,812.81 /LS	170,813	242,350.29 /LS	242,350
	07.0				Thermal and Moisture Protection											
		07.00			Thermal & Moisture Protection											
			07.00.002		Transluscent Panel Roofing											
				07.00.99.00	Thermal & Moisture Protection, Other											
					Transluscent Roof Panels	744.00 SF	256	27,246	33,480	-	-	-	81.62 /SF	60,726	118.14 /SF	87,898
					07.00.99.00 Thermal & Moisture Protection, Other	744.00 SF	256	27,246	33,480				81.62 /SF	60,726	118.14 /SF	87,898
					07.00.002 Transluscent Panel Roofing	744.00 SF	256	27,246	33,480				81.62 /SF	60,726	118.14 /SF	87,898
			MOA-07.00.001		Metal Roof											
				07.60.02.00	Thermal & Moisture Protection, Metal Roofing											
					Coping, galvanized steel, 24 gauge, 16" wall	156.00 lf	21	2,311	633	-	-	-	18.88 /lf	2,945	26.86 /lf	4,191
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	40.00 lf	2	269	186	-	-	-	11.38 /lf	455	16.36 /lf	654
					Drains, scupper flr, oblique stn, C.I., 8"x12" top, 5" & 6" pipe size	2.00 ea	2	256	1,880	-	-	-	1,067.97 /ea	2,136	1,571.30 /ea	3,143
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	0.00	26	2,836	2,700				/SF	5,536	/SF	7,988

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					MOA-07.00.001 Metal Roof	**0.00**	**26**	**2,836**	**2,700**				**/SF**	**5,536**	**/SF**	**7,988**
					07.00 Thermal & Moisture Protection	***1.00*** **LS**	**282**	**30,083**	**36,180**				**66,262.32 /LS**	**66,262**	**95,885.91 /LS**	**95,886**
					07.0 Thermal and Moisture Protection	***1.00*** **LS**	**282**	**30,083**	**36,180**				**66,262.32 /LS**	**66,262**	**95,885.91 /LS**	**95,886**
	08.0				**Openings**											
		08.00			**Openings**											
			MOA-08.10.001		**Exterior Doors**											
				08.30.01.10	**Specialty Doors and Frames, Access Doors**											
					6' x 8' Galvanized Steel Sidewalk Door	1.00 EA	32	3,969	24,000	-	280	-	28,248.58 /EA	28,249	41,499.31 /EA	41,499
					Bilco Hatch 60" x 60"	1.00 EA	16	1,984	11,400	-	280	-	13,664.29 /EA	13,664	20,058.70 /EA	20,059
					Bilco Hatch 48" x 72"	1.00 EA	16	1,984	11,000	-	280	-	13,264.29 /EA	13,264	19,466.72 /EA	19,467
					08.30.01.10 Specialty Doors and Frames, Access Doors	**3.00 EA**	**64**	**7,937**	**46,400**		**840**		**18,392.39 /EA**	**55,177**	**27,008.24 /EA**	**81,025**
					MOA-08.10.001 Exterior Doors	**3.00 EA**	**64**	**7,937**	**46,400**		**840**		**18,392.39 /EA**	**55,177**	**27,008.24 /EA**	**81,025**
					08.00 Openings	***1.00*** **LS**	**64**	**7,937**	**46,400**		**840**		**55,177.16 /LS**	**55,177**	**81,024.73 /LS**	**81,025**
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	4.00 opng	11	1,162	148	-	-	-	327.57 /opng	1,310	463.73 /opng	1,855
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	4.00 EA	32	3,969	4,800	-	-	-	2,192.15 /EA	8,769	3,172.40 /EA	12,690
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	4.00 ea	4	387	3,880	-	-	-	1,066.84 /ea	4,267	1,571.89 /ea	6,288
					08.10.01.10 Doors and Frames, Hollow Metal	**4.00 EA**	**46**	**5,518**	**8,828**				**3,586.55 /EA**	**14,346**	**5,208.01 /EA**	**20,832**
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**46**	**5,518**	**8,828**				**3,586.55 /EA**	**14,346**	**5,208.01 /EA**	**20,832**
					08.10 Doors and Frames - Exterior Doors	**4.00 EA**	**46**	**5,518**	**8,828**				**3,586.55 /EA**	**14,346**	**5,208.01 /EA**	**20,832**
					08.0 Openings	**7.00 EA**	**110**	**13,455**	**55,228**		**840**		**9,931.91 /EA**	**69,523**	**14,550.97 /EA**	**101,857**
	21.0				**Fire Suppression**											
		21.00			**Fire Sprinkler**											
			21.00.500		**Funk PGP Generating Plant, Fire Suppression**											
				21.00.10.10	**Water-Based Fire-Suppression Systems**											
					6" Fire Protection Piping	400.00 lf	240	27,153	26,000	-	1,501	-	136.64 /lf	54,654	210.69 /lf	84,275
					6" Fire Protection Wet Standpipe Down	4.00 ea	48	5,431	11,200	-	300	-	4,232.70 /ea	16,931	6,583.71 /ea	26,335
					Fittings and Valving Allowance	1.00 ls		5,500	7,500	-	2,000	-	15,000.00 /ls	15,000	23,155.94 /ls	23,156
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	5,000	-	1,000	-	10,000.00 /ls	10,000	15,437.31 /ls	15,437
					21.00.10.10 Water-Based Fire-Suppression Systems	***1.00*** **LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,202.90 /LS**	**149,203**
					21.00.500 Funk PGP Generating Plant, Fire Suppression	***1.00*** **LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,202.90 /LS**	**149,203**
					21.00 Fire Sprinkler	***1.00*** **LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,202.90 /LS**	**149,203**
					21.0 Fire Suppression	***1.00*** **LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,202.90 /LS**	**149,203**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.00.025		**Funks PGP Generating Plant, HVAC**											
				23.00.02.00	**Mechanical, HVAC**											
					Metal Ductwork, spiral preformed, steel, galvanized, straight lengths, 30" diameter	120.00 lf	64	7,724	7,800	-	560	-	134.03 /lf	16,084	173.25 /lf	20,790
					Metal Ductwork, spiral preformed, steel, galvanized, elbow, 45 Deg., 30" diameter	2.00 ea	8	965	600	-	-	-	782.73 /ea	1,565	1,006.02 /ea	2,012
					Metal Ductwork, spiral preformed, steel, galvanized, elbow, 90 Deg., 30" diameter	1.00 ea	4	483	350	-	-	-	832.73 /ea	833	1,072.53 /ea	1,073
					Metal Ductwork, spiral preformed, steel, galvanized, reducing coupling	2.00 ea	4	483	500	-	-	-	491.37 /ea	983	636.01 /ea	1,272
					Intake Plenum	1.00 ea	16	1,931	3,500	-	-	-	5,430.91 /ea	5,431	7,083.01 /ea	7,083
					Supply Fan, 7500 CFM	1.00 ea	32	3,742	15,000	-	280	-	19,021.95 /ea	19,022	25,007.22 /ea	25,007
					Exhaust Fan, 7500 CFM	1.00 ea	32	3,742	15,000	-	280	-	19,021.95 /ea	19,022	25,007.23 /ea	25,007
					Louver, aluminum, extruded, with screen, mill finish, fixed blade, continuous line, stormproof	42.75 SF	24	2,925	6,413	-	280	-	224.96 /SF	9,617	293.76 /SF	12,558
					Miscellaneous Items and Consumables Allowance	1.00 ls		5,000	7,000	-	2,000	-	14,000.00 /ls	14,000	18,112.22 /ls	18,112
					23.00.02.00 Mechanical, HVAC	**0.00**	**184**	**26,994**	**56,163**		**3,400**		**/LS**	**86,557**	**/LS**	**112,915**
					23.00.00.025 Funks PGP Generating Plant, HVAC	**42.75 SF**	**184**	**26,994**	**56,163**		**3,400**		**2,024.72 /SF**	**86,557**	**2,641.29 /SF**	**112,915**
					23.00 HVAC	***1.00*** **LS**	**184**	**26,994**	**56,163**		**3,400**		**86,556.59 /LS**	**86,557**	**112,914.95 /LS**	**112,915**
					23.0 HVAC	***1.00*** **LS**	**184**	**26,994**	**56,163**		**3,400**		**86,556.59 /LS**	**86,557**	**112,914.95 /LS**	**112,915**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.04.MVVSD		**Medium Voltage Variable Speed Drives**											
				26.00.99.00	**Electrical, Other**											
					Electrical Contractor startup assistance per hour	40.00 hr	400	41,727	4,000	-	1,000	-	1,168.17 /hr	46,727	1,826.65 /hr	73,066
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**400**	**41,727**	**4,000**		**1,000**		**46,726.80 /LS**	**46,727**	**73,066.05 /LS**	**73,066**
					26.04.MVVSD Medium Voltage Variable Speed Drives	***1.00*** **LS**	**400**	**41,727**	**4,000**		**1,000**		**46,726.80 /LS**	**46,727**	**73,066.05 /LS**	**73,066**
			26.40.HYDTURB		**13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A**											
				26.00.99.00	**Electrical, Other**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	36	4,160	4,500	-	-	-	2,886.69 /ton	8,660	4,604.71 /ton	13,814
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	80.00 lf	40	4,173	5,000	-	-	-	114.66 /lf	9,173	183.11 /lf	14,649
					Rigid galvanized steel plastic coated conduit elbows, 4" diameter, to 15' high	16.00 ea	48	5,007	3,136	-	-	-	508.95 /ea	8,143	806.89 /ea	12,910
					Rigid galvanized steel plastic coated conduit couplings, 4" diameter, to 15' high	16.00 ea	4	371	920	-	-	-	80.68 /ea	1,291	129.83 /ea	2,077
					Flexible metallic conduit, sealtite, 4" diameter	24.00 lf	16	1,667	480	-	-	-	89.48 /lf	2,147	140.81 /lf	3,379
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 4" diameter	8.00 ea	8	835	1,304	-	-	-	267.32 /ea	2,139	428.16 /ea	3,425
					Flexible metallic conduit, coupling sealtite to rigid, 4" diameter	8.00 ea	8	835	1,584	-	-	-	302.32 /ea	2,419	485.21 /ea	3,882
					Electrical Contractor startup assistance per hour	40.00 hr	400	41,727	4,000	-	1,000	-	1,168.17 /hr	46,727	1,826.65 /hr	73,066
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**559**	**58,774**	**20,924**		**1,000**		**80,698.15 /LS**	**80,698**	**127,202.73 /LS**	**127,203**
				26.10.03.00	**Site Electrical, Duct Bank**											
					PVC conduit, schedule 40, 4" diameter, to 15' H, incl terminations, fittings, & support	2,320.00 LF	580	60,504	13,340	-	-	-	31.83 /LF	73,844	49.99 /LF	115,977
					PVC conduit elbows, 4" diameter, to 15' H	16.00 ea	16	1,641	368	-	-	-	125.58 /ea	2,009	197.25 /ea	3,156
					PVC conduit, field bends, 45 Deg. to 90 Deg., 4" diameter	16.00 ea	16	1,669	-	-	-	-	104.32 /ea	1,669	162.47 /ea	2,600
					PVC adapters, 4" diameter, to 15' H	16.00 ea	8	835	77	-	-	-	56.96 /ea	911	89.06 /ea	1,425
					26.10.03.00 Site Electrical, Duct Bank	**2,320.00 LF**	**620**	**64,649**	**13,785**				**33.81 /LF**	**78,433**	**53.09 /LF**	**123,158**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Cable terminations, indoor, insulation diameter range, 15 kV, .525" to 1.025", pad mount	48.00 ea	120	12,518	5,232	-	-	-	369.79 /ea	17,750	583.85 /ea	28,025

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 4/0, in conduit, excl splicing & terminations	78.00 clf	390	40,684	51,480	-	-	-	1,181.59 /clf	92,164	1,888.14 /clf	147,275
					26.15.01.00 Process Electrical, Wire/Cable	**78.00 clf**	**510**	**53,202**	**56,712**				**1,409.15 /clf**	**109,914**	**2,247.44 /clf**	**175,300**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Hi-Pot Test 15 KV	8.00 EA	16	1,669	-	1,600	-	-	408.63 /EA	3,269	576.44 /EA	4,612
					26.25.03.00 Electrical Equipment, Switchgear - General	**0.00**	**16**	**1,669**		**1,600**			**/LS**	**3,269**	**/LS**	**4,612**
				31.20.07.15	**Earthworks, Sitework, Borrow**											
					Concrete (red) envelope/encasement, poured neat	29.63 CY	59	5,432	2,296	-	53	-	262.62 /CY	7,781	414.64 /CY	12,286
					End bulkheads, plywood, concrete envelope/encasement	60.00 sf	7	750	44	-	-	-	13.23 /sf	794	20.66 /sf	1,240
					31.20.07.15 Earthworks, Sitework, Borrow	**0.00**	**66**	**6,182**	**2,340**		**53**		**/tons**	**8,575**	**/tons**	**13,526**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	70.00 CY	1	136	-	-	1,842	-	28.26 /CY	1,979	44.02 /CY	3,082
					31.20.09.10 Earthworks, Sitework, Backfill	**70.00 CY**	**1**	**136**			**1,842**		**28.26 /CY**	**1,979**	**44.02 /CY**	**3,082**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	70.00 CY	7	694	-	-	745	-	20.57 /CY	1,440	32.03 /CY	2,242
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**70.00 CY**	**7**	**694**			**745**		**20.57 /CY**	**1,440**	**32.03 /CY**	**2,242**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	59.26 CY	3	350	-	-	1,729	-	35.08 /CY	2,079	54.63 /CY	3,237
					31.25.01.00 Earthworks, Structural, Excavation	**59.26 CY**	**3**	**350**			**1,729**		**35.08 /CY**	**2,079**	**54.63 /CY**	**3,237**
					26.40.HYDTURB 13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A	**2,320.00 LF**	**1,783**	**185,656**	**93,761**	**1,600**	**5,370**		**123.44 /LF**	**286,386**	**194.98 /LF**	**452,359**
			26.41.HYDTURB		**Hyd Turbine Controls Circuits**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	9	954	900	-	-	-	46.34 /lf	1,854	73.81 /lf	2,952
					Rigid galvanized steel plastic coated conduit elbows, 2" diameter, to 15' high	8.00 ea	8	835	336	-	-	-	146.32 /ea	1,171	230.93 /ea	1,847
					Rigid galvanized steel plastic coated conduit couplings, 2" diameter, to 15' high	8.00 ea	1	126	115	-	-	-	30.10 /ea	241	47.92 /ea	383
					Flexible metallic conduit, sealtite, 2" diameter	12.00 lf	3	334	52	-	-	-	32.12 /lf	385	50.33 /lf	604
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 2" diameter	4.00 ea	2	167	102	-	-	-	67.23 /ea	269	106.56 /ea	426
					Flexible metallic conduit, coupling sealtite to rigid, 2" diameter	4.00 ea	3	334	126	-	-	-	114.95 /ea	460	181.32 /ea	725
					Electrical Contractor startup assistance per hour	40.00 hr	400	41,727	4,000	-	1,000	-	1,168.17 /hr	46,727	1,826.65 /hr	73,066
					1.00 **26.00.99.00 Electrical, Other**	***1.00*** **LS**	**426**	**44,476**	**5,630**		**1,000**		**51,106.00 /LS**	**51,106**	**80,004.76 /LS**	**80,005**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	36	4,160	4,500	-	-	-	2,886.69 /ton	8,660	4,604.71 /ton	13,814
					PVC conduit, schedule 40, 2" diameter, to 15' H, incl terminations, fittings, & support	1,160.00 LF	103	10,756	3,898	-	-	-	12.63 /LF	14,654	19.92 /LF	23,106
					PVC conduit elbows, 2" diameter, to 15' H	8.00 ea	4	361	28	-	-	-	48.63 /ea	389	76.00 /ea	608
					PVC conduit, field bends, 45 Deg. to 90 Deg., 2" diameter	8.00 ea	3	334	-	-	-	-	41.73 /ea	334	64.99 /ea	520
					PVC adapters, 2" diameter, to 15' H	8.00 ea	2	247	11	-	-	-	32.30 /ea	258	50.41 /ea	403
					26.10.03.00 Site Electrical, Duct Bank	**1,160.00 LF**	**148**	**15,858**	**8,437**				**20.94 /LF**	**24,295**	**33.15 /LF**	**38,451**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	120.00 clf	74	7,703	1,164	-	-	-	73.90 /clf	8,867	115.79 /clf	13,895
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	48.00 clf	55	5,723	1,440	-	-	-	149.22 /clf	7,163	234.58 /clf	11,260
					26.15.01.00 Process Electrical, Wire/Cable	**168.00 clf**	**129**	**13,426**	**2,604**				**95.42 /clf**	**16,030**	**149.73 /clf**	**25,155**
				31.20.07.15	**Earthworks, Sitework, Borrow**											
					Concrete (red) envelope/encasement, poured neat	29.63 CY	59	5,432	2,296	-	53	-	262.62 /CY	7,781	414.64 /CY	12,286
					End bulkheads, plywood, concrete envelope/encasement	60.00 sf	7	750	44	-	-	-	13.23 /sf	794	20.66 /sf	1,240
					31.20.07.15 Earthworks, Sitework, Borrow	**0.00**	**66**	**6,182**	**2,340**		**53**		**/tons**	**8,575**	**/tons**	**13,526**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	70.00 CY	1	136	-	-	1,842	-	28.26 /CY	1,979	44.02 /CY	3,082
					31.20.09.10 Earthworks, Sitework, Backfill	**70.00 CY**	**1**	**136**			**1,842**		**28.26 /CY**	**1,979**	**44.02 /CY**	**3,082**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	70.00 CY	7	694	-	-	745	-	20.57 /CY	1,440	32.03 /CY	2,242
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**70.00 CY**	**7**	**694**			**745**		**20.57 /CY**	**1,440**	**32.03 /CY**	**2,242**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	59.26 CY	3	350	-	-	1,729	-	35.08 /CY	2,079	54.63 /CY	3,237
					31.25.01.00 Earthworks, Structural, Excavation	**59.26 CY**	**3**	**350**			**1,729**		**35.08 /CY**	**2,079**	**54.63 /CY**	**3,237**
					26.41.HYDTURB Hyd Turbine Controls Circuits	**1,160.00 LF**	**781**	**81,122**	**19,012**		**5,370**		**90.95 /LF**	**105,503**	**142.84 /LF**	**165,697**
					26.15 Process Electrical	***1.00*** **LS**	**2,964**	**308,505**	**116,773**	**1,600**	**11,739**		**438,616.48 /LS**	**438,616**	**691,122.34 /LS**	**691,122**
		26.20			**Facility Electrical**											
			26.05.GRDG		**Facility Grounding**											
				01.01.06.03	**GC Equip, Tools, & Consumables**											
					Rent trencher chain boom gas oper walking 12 HP	2.00 day		-	-	-	314	-	156.95 /day	314	244.46 /day	489
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**					**314**		**313.90 /LS**	**314**	**488.91 /LS**	**489**
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	2.00 lf	1	52	106	-	-	-	78.98 /lf	158	126.84 /lf	254
					Copper Bus Bar Supports	2.00 E	2	209	97	-	-	-	152.62 /E	305	241.20 /E	482
					Grounding rod, copper clad, 15' long, 3/4" diameter	6.00 ea	12	1,252	330	-	-	-	263.63 /ea	1,582	414.59 /ea	2,488
					Ground wire, copper wire, bare stranded, 4/0	4.00 clf	11	1,171	1,680	-	-	-	712.82 /clf	2,851	1,140.65 /clf	4,563
					Water pipe ground clamps, heavy duty, bronze, 2-1/2" to 3" diameter	1.00 ea	1	139	61	-	-	-	199.59 /ea	200	315.24 /ea	315
					Exothermic weld	24.00 ea	36	3,755	227	-	-	-	165.93 /ea	3,982	259.11 /ea	6,219
					Exothermic weld, mold reusable for above	6.00 ea		-	846	-	-	-	141.00 /ea	846	229.83 /ea	1,379
					Protective boxes at grade level, round, concrete, 12" long, incl breather slots	2.00 ea	1	104	224	-	-	-	164.16 /ea	328	263.81 /ea	528
					26.15.11.00 Process Electrical, Grounding	***4.00*** **clf**	**64**	**6,683**	**3,570**				**2,563.10 /clf**	**10,252**	**4,056.67 /clf**	**16,227**
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**64**	**6,683**	**3,570**		**314**		**10,566.29 /LS**	**10,566**	**16,715.60 /LS**	**16,716**
			26.12.SEC		**Subfeed from Elec Building**											
				26.10.02.00	**Site Electrical, Buried Conduit**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.10.02.00	Site Electrical, Buried Conduit											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.00 ton	12	1,387	1,500	-	-	-	2,886.69 /ton	2,887	4,604.69 /ton	4,605
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	600.00 LF	60	6,259	2,232	-	-	-	14.15 /LF	8,491	22.31 /LF	13,386
					26.10.02.00 Site Electrical, Buried Conduit	**600.00 LF**	**72**	**7,646**	**3,732**				**18.96 /LF**	**11,378**	**29.99 /LF**	**17,991**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	20.00 clf	73	7,587	7,700	-	-	-	764.33 /clf	15,287	1,218.35 /clf	24,367
					26.15.01.00 Process Electrical, Wire/Cable	**20.00 clf**	**73**	**7,587**	**7,700**				**764.33 /clf**	**15,287**	**1,218.35 /clf**	**24,367**
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, copper wire, bare stranded, 4/0	6.50 clf	18	1,903	2,730	-	-	-	712.82 /clf	4,633	1,140.66 /clf	7,414
					26.15.11.00 Process Electrical, Grounding	**6.50 clf**	**18**	**1,903**	**2,730**				**712.82 /clf**	**4,633**	**1,140.66 /clf**	**7,414**
				31.20.07.15	Earthworks, Sitework, Borrow											
					Concrete (red) envelope/encasement, poured neat	15.00 CY	30	2,750	1,163	-	27	-	262.62 /CY	3,939	414.64 /CY	6,220
					End bulkheads, plywood, concrete envelope/encasement	24.00 sf	3	300	18	-	-	-	13.23 /sf	318	20.67 /sf	496
					31.20.07.15 Earthworks, Sitework, Borrow	**0.00**	**33**	**3,050**	**1,180**		**27**		**/tons**	**4,257**	**/tons**	**6,716**
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	50.00 CY	1	97	-	-	1,316	-	28.27 /CY	1,413	44.02 /CY	2,201
					31.20.09.10 Earthworks, Sitework, Backfill	**50.00 CY**	**1**	**97**			**1,316**		**28.27 /CY**	**1,413**	**44.02 /CY**	**2,201**
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	50.00 CY	5	496	-	-	532	-	20.57 /CY	1,028	32.03 /CY	1,602
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**50.00 CY**	**5**	**496**			**532**		**20.57 /CY**	**1,028**	**32.03 /CY**	**1,602**
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	37.04 CY	2	219	-	-	1,081	-	35.08 /CY	1,299	54.63 /CY	2,024
					31.25.01.00 Earthworks, Structural, Excavation	**37.04 CY**	**2**	**219**			**1,081**		**35.08 /CY**	**1,299**	**54.63 /CY**	**2,024**
					26.12.SEC Subfeed from Elec Building	**600.00 LF**	**204**	**20,998**	**15,342**		**2,956**		**65.49 /LF**	**39,295**	**103.86 /LF**	**62,314**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	500.00 lf	50	5,216	2,575	-	-	-	15.58 /lf	7,791	24.64 /lf	12,321
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	25.00 ea	10	1,043	84	-	-	-	45.10 /ea	1,127	70.48 /ea	1,762
					Outlet boxes, pressed steel, covers, blank, 4" square	24.00 ea	3	313	18	-	-	-	13.81 /ea	331	21.56 /ea	518
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	1.00 ea	0	13	2	-	-	-	14.70 /ea	15	23.04 /ea	23
					Toggle switch, quiet type, single pole, 20 amp	1.00 ea	0	31	3	-	-	-	34.37 /ea	34	53.77 /ea	54
					26.00.99.00 Electrical, Other	***1.00* LS**	**63**	**6,616**	**2,683**				**9,298.77 /LS**	**9,299**	**14,677.15 /LS**	**14,677**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	16.00 clf	12	1,214	219	-	-	-	89.57 /clf	1,433	140.49 /clf	2,248
					26.15.01.00 Process Electrical, Wire/Cable	**16.00 clf**	**12**	**1,214**	**219**				**89.57 /clf**	**1,433**	**140.49 /clf**	**2,248**
				26.20.03.00	Facility Electrical, Lighting											
					LED Strip Light, hdwe	24.00 ea	34	3,514	2,640	-	-	-	256.41 /ea	6,154	407.33 /ea	9,776
					Emergency ballast, material only, interior, factory installed in fixture	6.00 ea		-	912	-	-	-	152.00 /ea	912	247.76 /ea	1,487
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	2.00 ea	2	209	140	-	-	-	174.32 /ea	349	276.58 /ea	553
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	24.00 ea	6	626	131	-	-	-	31.53 /ea	757	49.50 /ea	1,188
					26.20.03.00 Facility Electrical, Lighting	***1.00* LS**	**42**	**4,348**	**3,823**				**8,171.17 /LS**	**8,171**	**13,003.59 /LS**	**13,004**
					26.25.LTG Interior Lighting and Control	***1.00* LS**	**117**	**12,178**	**6,725**				**18,903.01 /LS**	**18,903**	**29,928.60 /LS**	**29,929**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	80.00 lf	5	514	86	-	-	-	7.49 /lf	599	11.74 /lf	939
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.48 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.57 /ea	86
					26.00.99.00 Electrical, Other	***1.00* LS**	**7**	**733**	**102**				**834.79 /LS**	**835**	**1,307.57 /LS**	**1,308**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	3.00 clf	2	228	41	-	-	-	89.57 /clf	269	140.49 /clf	421
					26.15.01.00 Process Electrical, Wire/Cable	**3.00 clf**	**2**	**228**	**41**				**89.57 /clf**	**269**	**140.49 /clf**	**421**
				26.15.07.00	Lighting											
					LED Area Light	4.00 E	8	835	***2,000***	-	-	-	708.64 /E	2,835	1,139.93 /E	4,560
					Wallpack Photocell	4.00 E	8	835	1,200	-	-	-	508.64 /E	2,035	813.94 /E	3,256
					26.15.07.00 Lighting	***1.00* LS**	**16**	**1,669**	**3,200**				**4,869.08 /LS**	**4,869**	**7,815.49 /LS**	**7,815**
					26.26.EXTLTG Exterior Lighting and Control	***1.00* LS**	**25**	**2,629**	**3,343**				**5,972.57 /LS**	**5,973**	**9,544.54 /LS**	**9,545**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	500.00 lf	57	5,961	5,000	-	-	-	21.92 /lf	10,961	34.87 /lf	17,434
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	8.00 ea	5	556	176	-	-	-	91.55 /ea	732	144.18 /ea	1,153
					Duplex receptacle, ground fault interrupting, 20 amp	8.00 ea	2	247	360	-	-	-	75.91 /ea	607	121.49 /ea	972
					WP cover	8.00 ea	1	111	340	-	-	-	56.41 /ea	451	90.94 /ea	727
					26.00.99.00 Electrical, Other	***1.00* LS**	**66**	**6,876**	**5,876**				**12,751.87 /LS**	**12,752**	**20,286.79 /LS**	**20,287**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	16.00 clf	12	1,214	219	-	-	-	89.57 /clf	1,433	140.49 /clf	2,248
					26.15.01.00 Process Electrical, Wire/Cable	**16.00 clf**	**12**	**1,214**	**219**				**89.57 /clf**	**1,433**	**140.49 /clf**	**2,248**
					26.30.DEV Device Outlets	***1.00* LS**	**78**	**8,090**	**6,095**				**14,184.94 /LS**	**14,185**	**22,534.67 /LS**	**22,535**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.20.05.00	Facility Electrical, HVAC											
					Allowance for HVAC circuit, connection, controls	200.00 HR	200	20,863	10,000	-	3,000	-	169.32 /HR	33,863	267.33 /HR	53,467
					26.20.05.00 Facility Electrical, HVAC	***1.00* LS**	**200**	**20,863**	**10,000**		**3,000**		**33,863.40 /LS**	**33,863**	**53,466.57 /LS**	**53,467**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00* LS**	**200**	**20,863**	**10,000**		**3,000**		**33,863.40 /LS**	**33,863**	**53,466.57 /LS**	**53,467**
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	Process Electrical, Lightning Protection											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	10.00 ea	10	1,043	260	-	-	-	130.32 /ea	1,303	204.85 /ea	2,049

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Detail Report
Project Name: Funks PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.10.00	Process Electrical, Lightning Protection											
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	400.00 lf	10	1,043	1,272	-	-	-	5.79 /lf	2,315	9.25 /lf	3,698
					LPS design and certification, misc mat and labor	1.00 LS	16	1,669	1,000	1,500	-	-	4,169.07 /LS	4,169	6,115.74 /LS	6,116
					26.15.10.00 Process Electrical, Lightning Protection	*1.00* LS	36	3,755	2,532	1,500			7,787.41 /LS	7,787	11,862.29 /LS	11,862
					26.90.LPS Facility Lightning Protection System	*1.00* **LS**	**36**	**3,755**	**2,532**	**1,500**			**7,787.41 /LS**	**7,787**	**11,862.29 /LS**	**11,862**
					26.20 Facility Electrical	*1.00* LS	723	75,196	47,607	1,500	6,270		130,572.96 /LS	130,573	206,366.27 /LS	206,366
		26.25			Electrical Equipment											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	100.00 lf	18	1,855	1,905	-	-	-	37.60 /lf	3,760	59.93 /lf	5,993
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.15 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.76 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.57 /ea	81
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.86 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.50 /ea	132
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.40 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,365.74 /ea	11,366
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,077.18 /ea	13,077
					Uninterruptible power supply, charger, inverter, and alarm 1 phase, 120 V, 5 kVA, incl 10 minutes battery	1.00 ea	48	5,325	7,100	-	492	-	12,916.86 /ea	12,917	20,632.51 /ea	20,633
					26.00.99.00 Electrical, Other	*1.00* LS	125	13,398	18,486		492		32,375.86 /LS	32,376	51,764.98 /LS	51,765
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.70 clf	1	90	38	-	-	-	182.89 /clf	128	288.79 /clf	202
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.70 clf	1	110	54	-	-	-	234.96 /clf	164	371.56 /clf	260
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	2.00 clf	4	417	318	-	-	-	367.64 /clf	735	584.11 /clf	1,168
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	2.00 clf	7	759	770	-	-	-	764.34 /clf	1,529	1,218.36 /clf	2,437
					26.15.01.00 Process Electrical, Wire/Cable	5.40 clf	13	1,376	1,180				473.41 /clf	2,556	753.18 /clf	4,067
				26.25.06.00	Transformers, Dry Type											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	2,500	-	-	-	4,884.39 /EA	4,884	7,788.58 /EA	7,789
					26.25.06.00 Transformers, Dry Type	1.00 EA	23	2,384	2,500				4,884.39 /EA	4,884	7,788.58 /EA	7,789
					26.20.DIST Electrical Distribution Equipment	*1.00* **LS**	**161**	**17,158**	**22,166**		**492**		**39,816.68 /LS**	**39,817**	**63,620.73 /LS**	**63,621**
					26.25 Electrical Equipment	*1.00* LS	161	17,158	22,166		492		39,816.68 /LS	39,817	63,620.73 /LS	63,621
					26.0 Electrical Work	*1.00* LS	3,848	400,859	186,546	3,100	18,501		609,006.12 /LS	609,006	961,109.34 /LS	961,109
	27.0				Telecommunications - Network											
		27.00			Telecommunications											
			27.30.COMCDT		**Comm Conduit to Admin**											
				26.10.02.00	Site Electrical, Buried Conduit											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,604.72 /ton	4,144
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	1,200.00 LF	120	12,518	4,464	-	-	-	14.15 /LF	16,982	22.31 /LF	26,773
					26.10.02.00 Site Electrical, Buried Conduit	1,200.00 LF	131	13,766	5,814				16.32 /LF	19,580	25.76 /LF	30,917
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, copper wire, bare stranded, 4/0	13.00 clf	36	3,807	5,460	-	-	-	712.82 /clf	9,267	1,140.65 /clf	14,828
					26.15.11.00 Process Electrical, Grounding	13.00 clf	36	3,807	5,460				712.82 /clf	9,267	1,140.65 /clf	14,828
				31.20.07.15	Earthworks, Sitework, Borrow											
					Concrete (red) envelope/encasement, poured neat	40.00 CY	80	7,333	3,100	-	72	-	262.62 /CY	10,505	414.64 /CY	16,586
					End bulkheads, plywood, concrete envelope/encasement	75.00 sf	9	938	55	-	-	-	13.23 /sf	993	20.66 /sf	1,550
					31.20.07.15 Earthworks, Sitework, Borrow	0.00	89	8,271	3,155		72		/tons	11,497	/tons	18,135
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	180.00 CY	3	351	-	-	4,737	-	28.26 /CY	5,088	44.02 /CY	7,924
					31.20.09.10 Earthworks, Sitework, Backfill	180.00 CY	3	351			4,737		28.26 /CY	5,088	44.02 /CY	7,924
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	180.00 CY	18	1,785	-	-	1,916	-	20.57 /CY	3,702	32.03 /CY	5,765
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	180.00 CY	18	1,785			1,916		20.57 /CY	3,702	32.03 /CY	5,765
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	177.78 CY	9	1,049	-	-	5,187	-	35.08 /CY	6,236	54.63 /CY	9,712
					31.25.01.00 Earthworks, Structural, Excavation	177.78 CY	9	1,049			5,187		35.08 /CY	6,236	54.63 /CY	9,712
					27.30.COMCDT Comm Conduit to Admin	**1,200.00 LF**	**287**	**29,028**	**14,429**		**11,912**		**46.14 /LF**	**55,369**	**72.74 /LF**	**87,283**
					27.00 Telecommunications	*1.00* LS	287	29,028	14,429		11,912		55,369.22 /LS	55,369	87,282.54 /LS	87,283
					27.0 Telecommunications - Network	*1.00* LS	287	29,028	14,429		11,912		55,369.22 /LS	55,369	87,282.54 /LS	87,283
	28.0				Electronic Safety and Security											
		28.00			Electronic Safety and Security											
			28.20.AC		**Access Control System**											
				28.35.01.00	Electronic Safety and Security											
					Card reader - all in allowance per each (incl circuit, cards, CX)	2.00 ea	24	2,504	1,600	-	-	-	2,051.81 /ea	4,104	3,253.65 /ea	6,507
					28.35.01.00 Electronic Safety and Security	*1.00* LS	24	2,504	1,600				4,103.61 /LS	4,104	6,507.29 /LS	6,507
					28.20.AC Access Control System	*1.00* **LS**	**24**	**2,504**	**1,600**				**4,103.61 /LS**	**4,104**	**6,507.29 /LS**	**6,507**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	Electronic Safety and Security											
					Closed circuit television system (CCTV), industrial quality, for additional camera stations, add	2.00 ea	6	618	1,380	-	-	-	999.09 /ea	1,998	1,606.08 /ea	3,212
					Closed circuit television system (CCTV), industrial quality, for weatherproof camera station, add	2.00 ea	12	1,284	1,080	-	-	-	1,181.95 /ea	2,364	1,880.02 /ea	3,760
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	8	835	1,000	1,000	-	-	2,834.54 /LS	2,835	4,187.23 /LS	4,187
					28.35.01.00 Electronic Safety and Security	*1.00* LS	26	2,737	3,460	1,000			7,196.61 /LS	7,197	11,159.42 /LS	11,159
					28.20.CCTV Closed Circuit TV and Cameras	*1.00* **LS**	**26**	**2,737**	**3,460**	**1,000**			**7,196.61 /LS**	**7,197**	**11,159.42 /LS**	**11,159**
			28.20.ID		**Intrusion Detection System**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				28.35.01.00	Electronic Safety and Security											
					Securitized door, all-in allowance per each (incl circuit, devices, CX)	2.00 ea	40	4,173	2,000	-	-	-	3,086.34 /ea	6,173	4,879.42 /ea	9,759
					Door controller (all-in cost including vendor program and startup)	1.00 ea	5	522	2,000	500	-	-	3,021.59 /ea	3,022	4,701.07 /ea	4,701
					28.35.01.00 Electronic Safety and Security	*1.00* LS	45	4,694	4,000	500			9,194.27 /LS	9,194	14,459.90 /LS	14,460
					28.20.ID Intrusion Detection System	***1.00*** **LS**	**45**	**4,694**	**4,000**	**500**			**9,194.27 /LS**	**9,194**	**14,459.90 /LS**	**14,460**
					28.00 Electronic Safety and Security	*1.00* LS	95	9,934	9,060	1,500			20,494.49 /LS	20,494	32,126.61 /LS	32,127
					28.0 Electronic Safety and Security	*1.00* LS	95	9,934	9,060	1,500			20,494.49 /LS	20,494	32,126.61 /LS	32,127
	40.0				Process Pipe											
		40.11			Process Pipe, Carbon Steel											
			40.00.500		**Funk PGP Generating Plant, Process Piping**											
				40.00.99.80	Process Pipe, Small Bore Piping											
					Small Bore Piping and Valving Allowance	400.00 LF	240	27,153	30,000	-	1,501	-	146.64 /LF	58,654	189.83 /LF	75,931
					40.00.99.80 Process Pipe, Small Bore Piping	400.00 LF	240	27,153	30,000		1,501		146.64 /LF	58,654	189.83 /LF	75,931
				40.10.02.08	Process Pipe, 8" RW											
					Pipe, WSP, 8" diameter, schedule 40	200.00 LF	166	18,726	21,800	-	1,035	-	207.81 /LF	41,561	269.22 /LF	53,843
					8" Dia Wall Pipes	4.00 ea	24	2,715	10,000	-	150	-	3,216.35 /ea	12,865	4,225.74 /ea	16,903
					8" WSP Fittings	20.00 ea	120	13,577	10,000	-	750	-	1,216.35 /ea	24,327	1,565.79 /ea	31,316
					Sump Pump Allowance	2.00 ea	48	5,431	10,000	-	300	-	7,865.40 /ea	15,731	10,253.08 /ea	20,506
					Miscellaneous Items and Consumables Allowance	1.00 ls		5,000	7,000	-	2,000	-	14,000.00 /ls	14,000	18,112.23 /ls	18,112
					40.10.02.08 Process Pipe, 8" RW	200.00 LF	358	45,449	58,800		4,235		542.42 /LF	108,485	703.40 /LF	140,680
				40.10.02.90	Process Pipe, 90" RW											
					Piping, WSP 90° diameter Wall Pipe	31.00 LF	145	15,072	38,750	-	3,078	-	1,835.49 /LF	56,900	2,398.71 /LF	74,360
					Concrete Pipe Collar	2.00 ea	96	9,777	10,000	-	1,131	-	10,453.84 /ea	20,908	13,508.00 /ea	27,016
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	6,000	-	2,000	-	12,000.00 /ls	12,000	15,524.76 /ls	15,525
					40.10.02.90 Process Pipe, 90" RW	31.00 LF	241	28,848	54,750		6,209		2,897.02 /LF	89,808	3,770.99 /LF	116,901
					40.00.500 Funk PGP Generating Plant, Process Piping	**631.00 LF**	**838**	**101,451**	**143,550**		**11,945**		**407.20 /LF**	**256,946**	**528.55 /LF**	**333,512**
					40.11 Process Pipe, Carbon Steel	631.00 LF	838	101,451	143,550		11,945		407.20 /LF	256,946	528.55 /LF	333,512
					40.0 Process Pipe	631.00 LF	838	101,451	143,550		11,945		407.20 /LF	256,946	528.55 /LF	333,512
	40.9				Instrumentation											
		40.90			Instrumentation & Controls											
			40.90.I&C		**Instrumentation & Control**											
				40.90.99.01	Instrumentation Allowance											
					Generator I&C Components	2.00 ea	400	33,028	20,000		-	-	26,514.00 /ea	53,028	42,020.02 /ea	84,040
					40.90.99.01 Instrumentation Allowance	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	84,040.04 /LS	84,040
					40.90.I&C Instrumentation & Control	***1.00*** **LS**	**400**	**33,028**	**20,000**				**53,028.00 /LS**	**53,028**	**84,040.04 /LS**	**84,040**
					40.90 Instrumentation & Controls	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	84,040.04 /LS	84,040
					40.9 Instrumentation	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	84,040.04 /LS	84,040
	48.0				Electrical Power Generation											
		48.10			Electrical Power Generation											
			26.00.000		**Hydropower Generators**											
				26.00.99.00	Electrical, Other											
					Installation of Francis Turbines	2.00 ea	2,560	284,907	300,000	-	87,746	-	336,326.56 /ea	672,653	433,798.89 /ea	867,598
					Furnish Francis Turbines	2.00 EA		0	0	-	0	0	0.01 /EA	0	5,904,031.46 /EA	11,808,063
					26.00.99.00 Electrical, Other	*1.00* LS	2,560	284,907	300,000		87,746	0	672,653.14 /LS	672,653	12,675,660.70 /LS	12,675,661
					26.00.000 Hydropower Generators	**2.00 EA**	**2,560**	**284,907**	**300,000**		**87,746**	**0**	**336,326.57 /EA**	**672,653**	**6,337,830.35 /EA**	**12,675,661**
					48.10 Electrical Power Generation	2.00 EA	2,560	284,907	300,000		87,746	0	336,326.57 /EA	672,653	6,337,830.35 /EA	12,675,661
					48.0 Electrical Power Generation	2.00 EA	2,560	284,907	300,000		87,746	0	336,326.57 /EA	672,653	6,337,830.35 /EA	12,675,661
					2165 Funks PGP Generating Plant	***1.00*** **LS**	**51,306**	**5,385,680**	**3,527,192**	**178,242**	**198,846**	**0**	**9,289,959.99 /LS**	**9,289,960**	**25,458,341.99 /LS**	**25,458,342**
2170					**Funks PGP Chiller Yard**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.001		**6" thick Slab on Grade**											
				03.10.05.06	Cast-In-Place Concrete, Slabs on Grade, 6" thick											
					Fine grade, for slab on grade, by hand	4,031.00 sf	28	2,551	121	-	-	-	0.66 /sf	2,671	0.97 /sf	3,902
					Fill, gravel subbase, under building slab on grade	75.00 cy	38	3,390	2,100	-	-	-	73.19 /cy	5,490	108.71 /cy	8,153
					Concrete pumping, subcontract, all inclusive price	75.00 cy		-	-	1,875	-	-	25.00 /cy	1,875	36.44 /cy	2,733
					Slab on grade edge forms, up to 6"	368.00 lf	20	2,113	96	-	-	-	6.00 /lf	2,209	8.77 /lf	3,226
					Reinforcing in place, A615 Gr 60, priced per lbs.	10,077.50 lb		-	7,558	4,031	-	-	1.15 /lb	11,589	1.73 /lb	17,439
					Concrete, ready mix, 4500 psi	75.00 CY		-	16,500	-	-	-	220.00 /CY	16,500	336.60 /CY	25,245
					Add for concrete waste, 4500 psi	3.00 cy		-	660	-	-	-	220.00 /cy	660	336.59 /cy	1,010
					Placing concrete, concrete pump	75.00 cy	109	9,883	-	-	-	-	131.77 /cy	9,883	192.05 /cy	14,404
					Finishing floors, monolithic, trowel finish (machine)	4,031.00 sf	81	7,364	81	-	-	-	1.85 /sf	7,445	2.69 /sf	10,856
					Curing, membrane spray	4,031.00 sf	8	729	161	-	-	-	0.22 /sf	890	0.32 /sf	1,309
					Polyethelene vapor barrier, 10 mil thick	40.31 sq	9	955	427	-	-	-	34.30 /sq	1,383	50.76 /sq	2,046
					03.10.05.06 Cast-In-Place Concrete, Slabs on Grade, 6" thick	75.00 CY	292	26,984	27,704	5,906			807.92 /CY	60,594	1,204.30 /CY	90,323
					MOA-03.20.001 6" thick Slab on Grade	**75.00 CY**	**292**	**26,984**	**27,704**	**5,906**			**807.92 /CY**	**60,594**	**1,204.30 /CY**	**90,323**
					03.18 Cast-In-Place Concrete, Slabs on Grade	75.00 CY	292	26,984	27,704	5,906			807.92 /CY	60,594	1,204.30 /CY	90,323
		03.27			Cast-In-Place Concrete, Equipment Pads											
			MOA-03.15.002		**6" thick Equipment Pad**											
				03.10.13.06	Cast-In-Place Concrete, Equipment Pads, 6" thick											
					Fine grade, for slab on grade, by hand	1,409.00 sf	10	892	42	-	-	-	0.66 /sf	934	0.97 /sf	1,364
					Concrete pumping, subcontract, all inclusive price	27.00 cy		-	-	675	-	-	25.00 /cy	675	36.44 /cy	984
					Edge forms, housekeeping pads, up to 6"	480.00 lf	25	2,756	125	-	-	-	6.00 /lf	2,881	8.77 /lf	4,208
					Reinforcing in place, A615 Gr 60, priced per lbs.	2,217.87 lb		-	1,663	887	-	-	1.15 /lb	2,551	1.73 /lb	3,838
					Concrete, ready mix, 4500 psi	27.00 CY		-	5,940	-	-	-	220.00 /CY	5,940	336.60 /CY	9,088
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.59 /cy	673
					Placing concrete, concrete pump	27.00 cy	39	3,558	-	-	-	-	131.77 /cy	3,558	192.05 /cy	5,185
					Finish housekeeping pads	1,409.00 sf	56	5,148	42	-	-	-	3.68 /sf	5,190	5.37 /sf	7,568
					Curing, membrane spray	1,409.00 sf	3	255	56	-	-	-	0.22 /sf	311	0.32 /sf	457
					Polyethelene vapor barrier, 6 mil thick	14.09 sq	3	334	51	-	-	-	27.33 /sq	385	40.10 /sq	565

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.13.06 Cast-In-Place Concrete, Equipment Pads, 6" thick	27.00 CY	137	12,942	8,360	1,562			846.84 /CY	22,865	1,256.70 /CY	33,931
					MOA-03.15.002 6" thick Equipment Pad	27.00 CY	137	12,942	8,360	1,562			846.84 /CY	22,865	1,256.70 /CY	33,931
					03.27 Cast-In-Place Concrete, Equipment Pads	27.00 CY	137	12,942	8,360	1,562			846.84 /CY	22,865	1,256.70 /CY	33,931
					03.0 Concrete Work	102.00 CY	429	39,926	36,064	7,468			818.22 /CY	83,458	1,218.17 /CY	124,253
	23.0				HVAC											
		23.00			HVAC											
			23.00.00.050		HVAC Chiller Equipment											
				23.73.13.00	HVAC Equipment											
					Water chiller, centrifugal liquid chiller, packaged unit, water cooled, Allowance	1.00 ea	492	56,847	835,500	-	*5,000*	-	897,347.26 /ea	897,347	1,188,969.89 /ea	1,188,970
					Chillers Interconnecting Pipe, Fittings, and Valving	340.00 lf	204	23,080	32,300	-	4,420	-	175.88 /lf	59,800	228.06 /lf	77,539
					23.73.13.00 HVAC Equipment	*1.00* LS	696	79,928	867,800		9,420		957,147.62 /LS	957,148	1,266,509.38 /LS	1,266,509
					23.00.00.050 HVAC Chiller Equipment	*1.00* LS	696	79,928	867,800		9,420		957,147.62 /LS	957,148	1,266,509.38 /LS	1,266,509
					23.00 HVAC	*1.00* LS	696	79,928	867,800		9,420		957,147.62 /LS	957,148	1,266,509.38 /LS	1,266,509
					23.0 HVAC	*1.00* LS	696	79,928	867,800		9,420		957,147.62 /LS	957,148	1,266,509.38 /LS	1,266,509
	26.0				Electrical Work											
		26.20			Facility Electrical											
			26.90.LPS		Facility Lightning Protection System											
				26.15.10.00	Process Electrical, Lightning Protection											
					Elec Distribution and LCP Circuits	1.00 LS	35	3,651	5,000	100,000	-	-	108,651.10 /LS	108,651	139,584.40 /LS	139,584
					Grounding/LPS	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.83 /LS	20,124
					Yard ighting	1.00 LS	35	3,651	5,000	10,000	-	-	18,651.10 /LS	18,651	26,411.21 /LS	26,411
					Receptacles	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.80 /LS	20,124
					26.15.10.00 Process Electrical, Lightning Protection	*1.00* LS	140	14,604	20,000	120,000			154,604.40 /LS	154,604	206,243.24 /LS	206,243
					26.90.LPS Facility Lightning Protection System	*1.00* LS	140	14,604	20,000	120,000			154,604.40 /LS	154,604	206,243.24 /LS	206,243
					26.20 Facility Electrical	*1.00* LS	140	14,604	20,000	120,000			154,604.40 /LS	154,604	206,243.24 /LS	206,243
					26.0 Electrical Work	*1.00* LS	140	14,604	20,000	120,000			154,604.40 /LS	154,604	206,243.24 /LS	206,243
					2170 Funks PGP Chiller Yard	*1.00* LS	1,265	134,458	923,864	127,468	9,420		1,195,210.35 /LS	1,195,210	1,597,006.10 /LS	1,597,006
2171					Funks PGP HVAC Building											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.002		8" thick Slab on Grade											
				03.10.05.08	Cast-In-Place Concrete, Slabs on Grade, 8" thick											
					Fine grade, for slab on grade, by hand	960.00 sf	7	607	29	-	-	-	0.66 /sf	636	0.97 /sf	929
					Fill, gravel subbase, under building slab on grade	17.78 cy	9	803	498	-	-	-	73.19 /cy	1,301	108.71 /cy	1,933
					Concrete pumping, subcontract, all inclusive price	23.70 cy		-	-	593	-	-	25.00 /cy	593	36.44 /cy	864
					Slab on grade edge forms, 7" to 12"	82.67 sf	15	1,612	83	-	-	-	20.50 /sf	1,695	29.95 /sf	2,476
					Reinforcing in place, A615 Gr 60, priced per lbs.	6,200.00 lb		-	4,650	2,480	-	-	1.15 /lb	7,130	1.73 /lb	10,729
					Concrete, ready mix, 4500 psi	41.00 CY		-	9,020	-	-	-	220.00 /CY	9,020	336.60 /CY	13,800
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump	41.00 cy	60	5,402	-	-	-	-	131.77 /cy	5,402	192.05 /cy	7,874
					Finishing floors, monolithic, trowel finish (machine)	960.00 sf	19	1,754	19	-	-	-	1.85 /sf	1,773	2.69 /sf	2,585
					Curing, membrane spray	960.00 sf	2	174	38	-	-	-	0.22 /sf	212	0.32 /sf	312
					Polyethelene vapor barrier, 10 mil thick	9.60 sq	2	228	102	-	-	-	34.30 /sq	329	50.76 /sq	487
					03.10.05.08 Cast-In-Place Concrete, Slabs on Grade, 8" thick	41.00 CY	113	10,580	14,879	3,073			695.89 /CY	28,531	1,040.56 /CY	42,663
					MOA-03.20.002 8" thick Slab on Grade	41.00 CY	113	10,580	14,879	3,073			695.89 /CY	28,531	1,040.56 /CY	42,663
					03.18 Cast-In-Place Concrete, Slabs on Grade	41.00 CY	113	10,580	14,879	3,073			695.89 /CY	28,531	1,040.56 /CY	42,663
					03.0 Concrete Work	41.00 CY	113	10,580	14,879	3,073			695.89 /CY	28,531	1,040.56 /CY	42,663
	04.0				Masonry - Architectural											
		04.21			Concrete Unit Masonry - Exterior											
			MOA-04.21.001		8" thick Exterior CMU Wall											
				04.00.02.08	Masonry Concrete Masonry Units, 8"											
					Grout, door frames, 3' x 7' opening, 2.5 C.F. per opening	3.00 opng	2	170	44	-	8	-	74.19 /opng	223	105.49 /opng	316
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	2,807.43 lb	50	5,148	1,123	-	-	-	2.23 /lb	6,271	3.17 /lb	8,908
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	2,064.29 lb	47	4,867	1,466	-	-	-	3.07 /lb	6,332	4.37 /lb	9,019
					Allow - shoring and bracing at CMU walls (percentage wall area)	2,477.14 sfwa	28	3,085	446	-	-	-	1.43 /sfwa	3,531	2.02 /sfwa	5,002
					Control joint, PVC, cross-shaped for CMU units	560.00 lf	16	1,650	1,372	-	-	-	5.40 /lf	3,022	7.77 /lf	4,353
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	8,257.14 SF	1,101	111,936	47,891	-	-	-	19.36 /SF	159,827	27.66 /SF	228,426
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	327.00 lf	70	7,067	2,354	-	-	-	28.81 /lf	9,421	41.07 /lf	13,431
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	40.00 lf	11	1,336	126	-	67	-	38.22 /lf	1,529	54.02 /lf	2,161
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	24.00 lf	10	1,312	188	-	65	-	65.23 /lf	1,566	92.39 /lf	2,217
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.13 mbf	4	455	156	-	-	-	4,593.00 /mbf	611	6,549.62 /mbf	871
					Silicone water repellants, sprayed on CMU, 2 coat	16,514.28 sf	44	4,543	20,478	-	-	-	1.52 /sf	25,020	2.22 /sf	36,700
					Reglet, zinc and copper alloy, 20 ounce	200.00 lf	7	775	574	-	-	-	6.74 /lf	1,349	9.70 /lf	1,940
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	200.00 lf	11	1,300	1,050	-	-	-	11.75 /lf	2,350	16.92 /lf	3,383
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	560.00 lf	16	1,680	386	-	-	-	3.69 /lf	2,067	5.24 /lf	2,937
					04.00.02.08 Masonry Concrete Masonry Units, 8"	8,257.14 SF	1,417	145,323	77,655		140		27.02 /SF	223,119	38.71 /SF	319,665
					MOA-04.21.001 8" thick Exterior CMU Wall	8,257.14 SF	1,417	145,323	77,655		140		27.02 /SF	223,119	38.71 /SF	319,665
					04.21 Concrete Unit Masonry - Exterior	8,257.14 SF	1,417	145,323	77,655		140		27.02 /SF	223,119	38.71 /SF	319,665
					04.0 Masonry - Architectural	8,257.14 SF	1,417	145,323	77,655		140		27.02 /SF	223,119	38.71 /SF	319,665
	07.0				Thermal and Moisture Protection											
		07.00			Thermal & Moisture Protection											
			07.00.000		TPO Membrane Roofing											
				07.50.02.00	Thermal & Moisture Protection, Membrane Roofing											
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	841.00 bf	11	1,091	1,682	-	-	-	3.30 /bf	2,773	4.79 /bf	4,025
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	11.89 SQ	19	1,974	1,676	-	92	-	314.73 /SQ	3,742	453.20 /SQ	5,388
					Coping, galvanized steel, 24 gauge, 16" wall	116.00 lf	16	1,719	471	-	-	-	18.88 /lf	2,190	26.86 /lf	3,116
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	32.00 lf	2	215	149	-	-	-	11.38 /lf	364	16.36 /lf	524
					Reglet, galvanized steel, in concrete parapet, 24 gauge	440.00 lf	16	1,704	1,236	-	-	-	6.68 /lf	2,941	9.61 /lf	4,229
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	440.00 lf	23	2,860	858	-	-	-	8.45 /lf	3,718	12.03 /lf	5,295

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	11.89 SQ	86	9,563	6,073		92		1,322.78 /SQ	15,728	1,898.82 /SQ	22,577
					07.00.000 TPO Membrane Roofing	**11.89 SQ**	**86**	**9,563**	**6,073**		**92**		**1,322.78 /SQ**	**15,728**	**1,898.82 /SQ**	**22,577**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	Thermal & Moisture Protection, Metal Roofing											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	0.80 ton	5	613	8,400	-	178	-	11,488.98 /ton	9,191	16,931.76 /ton	13,545
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	8.00 ton	58	7,246	84,000	-	2,104	-	11,668.80 /ton	93,350	17,184.85 /ton	137,479
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	841.00 SF	6	782	2,767	-	29	-	4.25 /SF	3,578	6.23 /SF	5,237
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	841.00 SF	69	8,641	95,167		2,312		126.18 /SF	106,120	185.80 /SF	156,261
					MOA-07.00.001 Metal Roof	**841.00 SF**	**69**	**8,641**	**95,167**		**2,312**		**126.18 /SF**	**106,120**	**185.80 /SF**	**156,261**
					07.00 Thermal & Moisture Protection	*1.00* LS	156	18,204	101,240		2,404		121,847.67 /LS	121,848	178,838.02 /LS	178,838
					07.0 Thermal and Moisture Protection	*1.00* LS	156	18,204	101,240		2,404		121,847.67 /LS	121,848	178,838.02 /LS	178,838
	08.0				Openings											
		08.10			Doors and Frames - Exterior Doors											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	Doors and Frames, Hollow Metal											
					Weatherstripping, doors, wood frame, spring type, brz, 6' x 7' door	2.00 opng	2	249	56	-	-	-	152.53 /opng	305	216.71 /opng	433
					Steel frames, knock down, 14 ga., to 8-3/4" throat, to 6070, pair	2.00 ea	3	291	1,250	-	-	-	770.27 /ea	1,541	1,129.46 /ea	2,259
					Doors, commercial, steel, insulated, full panel, 18 ga., 3'-0" x 7'-0" x 1-3/4" thick	4.00 EA	4	465	2,540	-	-	-	751.21 /EA	3,005	1,103.35 /EA	4,413
					08.10.01.10 Doors and Frames, Hollow Metal	4.00 EA	9	1,004	3,846				1,212.61 /EA	4,850	1,776.43 /EA	7,106
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**9**	**1,004**	**3,846**				**1,212.61 /EA**	**4,850**	**1,776.43 /EA**	**7,106**
					08.10 Doors and Frames - Exterior Doors	4.00 EA	9	1,004	3,846				1,212.61 /EA	4,850	1,776.43 /EA	7,106
					08.0 Openings	4.00 EA	9	1,004	3,846				1,212.61 /EA	4,850	1,776.43 /EA	7,106
	09.0				Finishes											
		09.90			Painting and Coating											
			09.00.006		**Building Paintings and Coatings**											
				09.00.99.00	Finishes, Other											
					HVAC Building Paintings and Coatings Allowancce	841.00 SF	32	2,909	*5,000*	-	400	-	9.88 /SF	8,309	14.34 /SF	12,057
					09.00.99.00 Finishes, Other	841.00 SF	32	2,909	5,000		400		9.88 /SF	8,309	14.34 /SF	12,057
					09.00.006 Building Paintings and Coatings	**841.00 SF**	**32**	**2,909**	**5,000**		**400**		**9.88 /SF**	**8,309**	**14.34 /SF**	**12,057**
					09.90 Painting and Coating	841.00 SF	32	2,909	5,000		400		9.88 /SF	8,309	14.34 /SF	12,057
					09.0 Finishes	*1.00* LS	32	2,909	5,000		400		8,308.52 /LS	8,309	12,056.57 /LS	12,057
	21.0				Fire Suppression											
		21.00			Fire Sprinkler											
			21.00.600		**Funk PGP HVAC Building, Fire Suppression**											
				21.00.10.10	Water-Based Fire-Suppression Systems											
					HVAC Building Fire Suppression System Allowance	841.00 SF				15,138	-	-	18.00 /SF	15,138	22.63 /SF	19,036
					21.00.10.10 Water-Based Fire-Suppression Systems	0.00				15,138			/LS	15,138	/LS	19,036
					21.00.600 Funk PGP HVAC Building, Fire Suppression	**841.00 SF**				**15,138**			**18.00 /SF**	**15,138**	**22.63 /SF**	**19,036**
					21.00 Fire Sprinkler	*1.00* LS				15,138			15,138.00 /LS	15,138	19,035.73 /LS	19,036
					21.0 Fire Suppression	*1.00* LS				15,138			15,138.00 /LS	15,138	19,035.73 /LS	19,036
	23.0				HVAC											
		23.00			HVAC											
			23.00.00.040		**HVAC Building, HVAC**											
				23.00.02.00	Mechanical, HVAC											
					HVAC Building, HVAC Allowance	841.00 SF				29,435	-	-	35.00 /SF	29,435	44.01 /SF	37,014
					23.00.02.00 Mechanical, HVAC	0.00				29,435			/LS	29,435	/LS	37,014
				23.00.20.10	HVAC, Piping											
					Piping,ductile iron pipe,mechanical joint,fittings,4"diameter	15.00 LF	2	205	1,515	-	15	-	115.67 /LF	1,735	152.77 /LF	2,292
					Piping,ductile iron pipe,mechanical joint,fittings,6"diameter	95.00 LF	17	1,625	11,400	-	117	-	138.33 /LF	13,142	182.65 /LF	17,352
					Piping,ductile iron pipe,mechanical joint,fittings,8"diameter	12.00 LF	3	246	2,028	-	18	-	191.00 /LF	2,292	252.43 /LF	3,029
					Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, 4" diameter	6.00 ea	9	831	1,548	-	-	-	396.47 /ea	2,379	517.25 /ea	3,104
					Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, 6" diameter	28.00 ea	53	4,846	11,480	-	-	-	583.08 /ea	16,326	762.94 /ea	21,362
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 4" diameter	2.00 ea	4	415	1,110	-	-	-	762.64 /ea	1,525	999.24 /ea	1,998
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 6" diameter	12.00 ea	34	3,117	11,580	-	-	-	1,224.72 /ea	14,697	1,610.03 /ea	19,320
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 8" diameter	6.00 ea	24	2,309	8,100	-	166	-	1,762.54 /ea	10,575	2,314.23 /ea	13,885
					Piping, fitting, reducer, ductile iron, mechanical joint, 8" x 6" diameter	1.00 ea	2	235	545	-	17	-	796.99 /ea	797	1,041.70 /ea	1,042
					Piping, fitting, reducer, ductile iron, mechanical joint, 8" x 4" diameter	2.00 ea	5	470	1,090	-	34	-	796.99 /ea	1,594	1,041.72 /ea	2,083
					23.00.20.10 HVAC, Piping	122.00 LF	152	14,300	50,396		366		533.29 /LF	65,062	700.55 /LF	85,468
				23.00.20.20	HVAC, Pumps											
					Functional Testing, Pumps, 5-20 hp	8.00 ea	16	1,687	400	-	-	-	260.87 /ea	2,087	331.66 /ea	2,653
					Align Pump & Motor, 5-20 hp	8.00 ea	24	2,530	-	4,200	-	-	841.30 /ea	6,730	1,057.92 /ea	8,463
					Vibration Testing, Pumps, 5-20 hp	8.00 ea	8	843	-	1,400	-	-	280.43 /ea	2,243	352.64 /ea	2,821
					Sleeved anchor bolts - Small	32.00 ea	10	1,012	384	-	-	-	43.63 /ea	1,396	55.73 /ea	1,783
					Non-Shrink Machine Grout	16.00 cuft	15	1,603	1,184	-	-	-	174.16 /cuft	2,787	224.37 /cuft	3,590
					Grease, Oil, and Lube Pumps, 5-20 hp	8.00 ea	16	1,687	600	-	-	-	285.87 /ea	2,287	364.91 /ea	2,919
					FURNISH Horizontal End-Suction Centrifugal Pump, 5 hp	6.00 EA		-	75,000	-	-	-	12,500.00 /EA	75,000	16,624.75 /EA	99,748
					FURNISH Horizontal End-Suction Centrifugal Pump, 7.5 hp	2.00 EA		-	38,000	-	-	-	19,000.00 /EA	38,000	25,269.62 /EA	50,539
					Set pump assembly, 5 - 20 hp	8.00 ea	256	26,991	200	-	-	-	3,398.86 /ea	27,191	4,275.81 /ea	34,206
					Variable frequency drives, custom-engineered, 460 volt, 5 HP motor size	6.00 ea	86	8,941	26,400	-	-	-	5,890.24 /ea	35,341	7,725.86 /ea	46,355
					Variable frequency drives, custom-engineered, 460 volt, 7.5 HP motor size	2.00 ea	34	3,551	7,450	-	-	-	5,500.61 /ea	11,001	7,186.97 /ea	14,374
					23.00.20.20 HVAC, Pumps	8.00 EA	465	48,846	149,618	5,600			25,508.00 /EA	204,064	33,431.71 /EA	267,454
				23.00.20.45	HVAC, Chemical Treatment/Filtration System											
					Chemical Treatment/Filtration System Allowance	1.00 ls	120	13,577	50,000	-	1,000	-	64,576.68 /ls	64,577	84,828.87 /ls	84,829
					23.00.20.45 HVAC, Chemical Treatment/Filtration System	*1.00* LS	120	13,577	50,000		1,000		64,576.68 /LS	64,577	84,828.87 /LS	84,829
					23.00.00.040 HVAC Building, HVAC	**841.00 SF**	**736**	**76,722**	**250,014**	**35,035**	**1,366**		**431.79 /SF**	**363,137**	**564.52 /SF**	**474,764**
					23.00 HVAC	*1.00* LS	736	76,722	250,014	35,035	1,366		363,137.40 /LS	363,137	474,763.98 /LS	474,764
					23.0 HVAC	*1.00* LS	736	76,722	250,014	35,035	1,366		363,137.40 /LS	363,137	474,763.98 /LS	474,764
	26.0				Electrical Work											
		26.20			Facility Electrical											
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	Process Electrical, Grounding											
					Copper Bus Bar .25"x 3.0"	20.00 lf	5	522	1,058	-	-	-	78.98 /lf	1,580	126.84 /lf	2,537

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.11.00	Process Electrical, Grounding											
					Copper Bus Bar Supports	20.00 E	20	2,086	966	-	-	-	152.62 /E	3,052	241.20 /E	4,824
					Ground wire, copper wire, bare stranded, 4/0	35.00 clf	98	10,249	14,700	-	-	-	712.82 /clf	24,949	1,140.65 /clf	39,923
					Exothermic weld	234.00 ea	351	36,615	2,211	-	-	-	165.93 /ea	38,827	259.11 /ea	60,632
					26.15.11.00 Process Electrical, Grounding	**35.00 clf**	**474**	**49,472**	**18,935**				**1,954.49 /clf**	**68,407**	**3,083.30 /clf**	**107,916**
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**474**	**49,472**	**18,935**				**68,407.19 /LS**	**68,407**	**107,915.63 /LS**	**107,916**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	2,600.00 lf	260	27,122	13,390	-	-	-	15.58 /lf	40,512	24.64 /lf	64,068
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	150.00 ea	60	6,259	506	-	-	-	45.10 /ea	6,765	70.48 /ea	10,572
					Outlet boxes, pressed steel, covers, blank, 4" square	150.00 ea	19	1,956	116	-	-	-	13.81 /ea	2,071	21.56 /ea	3,235
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**339**	**35,337**	**14,011**				**49,348.38 /LS**	**49,348**	**77,874.91 /LS**	**77,875**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.49 /clf	11,239
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	10.00 clf	8	835	205	-	-	-	103.95 /clf	1,040	163.39 /clf	1,634
					26.15.01.00 Process Electrical, Wire/Cable	**90.00 clf**	**66**	**6,904**	**1,301**				**91.17 /clf**	**8,205**	**143.04 /clf**	**12,873**
				26.20.03.00	Facility Electrical, Lighting											
					LED Strip Light, hdwe	150.00 ea	211	21,961	16,500	-	-	-	256.41 /ea	38,461	407.33 /ea	61,099
					Emergency ballast, material only, interior, factory installed in fixture	30.00 ea		-	4,560	-	-	-	152.00 /ea	4,560	247.76 /ea	7,433
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	12.00 ea	12	1,252	840	-	-	-	174.32 /ea	2,092	276.57 /ea	3,319
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	150.00 ea	38	3,912	818	-	-	-	31.53 /ea	4,729	49.50 /ea	7,425
					26.20.03.00 Facility Electrical, Lighting	***1.00*** **LS**	**260**	**27,125**	**22,718**				**49,842.66 /LS**	**49,843**	**79,275.96 /LS**	**79,276**
					26.25.LTG Interior Lighting and Control	***1.00*** **LS**	**665**	**69,366**	**38,030**				**107,395.93 /LS**	**107,396**	**170,024.14 /LS**	**170,024**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.74 /lf	4,110
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.48 /ea	846
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.56 /ea	259
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**28**	**2,904**	**424**				**3,328.21 /LS**	**3,328**	**5,214.36 /LS**	**5,214**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.49 /clf	1,686
					26.15.01.00 Process Electrical, Wire/Cable	**12.00 clf**	**9**	**910**	**164**				**89.57 /clf**	**1,075**	**140.49 /clf**	**1,686**
				26.15.07.00	Lighting											
					LED Area Light	12.00 E	24	2,504	***6,000***	-	-	-	708.63 /E	8,504	1,139.94 /E	13,679
					Wallpack Photocell	12.00 E	24	2,504	3,600	-	-	-	508.63 /E	6,104	813.94 /E	9,767
					26.15.07.00 Lighting	***1.00*** **LS**	**48**	**5,007**	**9,600**				**14,607.22 /LS**	**14,607**	**23,446.45 /LS**	**23,446**
					26.26.EXTLTG Exterior Lighting and Control	***1.00*** **LS**	**85**	**8,822**	**10,189**				**19,010.23 /LS**	**19,010**	**30,346.71 /LS**	**30,347**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	3,000.00 lf	300	31,295	15,450	-	-	-	15.58 /lf	46,745	24.64 /lf	73,925
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	36.00 ea	24	2,504	792	-	-	-	91.54 /ea	3,296	144.17 /ea	5,190
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.50 /ea	1,572
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.49 /ea	1,458
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.94 /ea	1,091
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**336**	**35,078**	**17,548**				**52,625.93 /LS**	**52,626**	**83,236.04 /LS**	**83,236**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.49 /clf	11,239
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	20.00 clf	16	1,669	410	-	-	-	103.95 /clf	2,079	163.39 /clf	3,268
					26.15.01.00 Process Electrical, Wire/Cable	**100.00 clf**	**74**	**7,738**	**1,506**				**92.44 /clf**	**9,244**	**145.07 /clf**	**14,507**
					26.30.DEV Device Outlets	***1.00*** **LS**	**410**	**42,817**	**19,054**				**61,870.35 /LS**	**61,870**	**97,743.23 /LS**	**97,743**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.74 /lf	3,523
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.24 /lf	2,847
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.82 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.82 /ea	346
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.63 /ea	355
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**40**	**4,212**	**738**				**4,949.45 /LS**	**4,949**	**7,762.14 /LS**	**7,762**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	4.50 clf	3	341	62	-	-	-	89.57 /clf	403	140.49 /clf	632
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.39 /clf	1,471
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.89 /clf	2,833
					26.15.01.00 Process Electrical, Wire/Cable	**26.50 clf**	**23**	**2,449**	**688**				**118.37 /clf**	**3,137**	**186.24 /clf**	**4,935**
				26.20.05.00	Facility Electrical, HVAC											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,704.92 /LS	5,705
					26.20.05.00 Facility Electrical, HVAC	***1.00*** **LS**			**3,500**				**3,500.00 /LS**	**3,500**	**5,704.92 /LS**	**5,705**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00*** **LS**	**64**	**6,660**	**4,926**				**11,586.20 /LS**	**11,586**	**18,402.38 /LS**	**18,402**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.91 /hr	4,527
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,669**	**800**		**400**		**2,869.07 /LS**	**2,869**	**4,526.52 /LS**	**4,527**
				26.15.10.00	Process Electrical, Lightning Protection											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	50.00 ea	50	5,216	1,300	-	-	-	130.32 /ea	6,516	204.85 /ea	10,243
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	1,650.00 lf	41	4,303	5,247	-	-	-	5.79 /lf	9,550	9.25 /lf	15,254
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,123.81 /LS	20,124
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**126**	**13,170**	**11,547**	**5,000**			**29,717.03 /LS**	**29,717**	**45,620.84 /LS**	**45,621**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**142**	**14,839**	**12,347**	**5,000**	**400**		**32,586.10 /LS**	**32,586**	**50,147.36 /LS**	**50,147**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.20 Facility Electrical	***1.00*** **LS**	**1,840**	**191,976**	**103,480**	**5,000**	**400**		**300,856.00 /LS**	**300,856**	**474,579.45 /LS**	**474,579**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	4	371	138	-	-	-	12.73 /lf	509	20.08 /lf	803
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.15 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.76 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.56 /ea	81
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.88 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.50 /ea	132
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.41 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	20	2,086	2,125	-	-	-	4,211.34 /ea	4,211	6,713.14 /ea	6,713
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,365.70 /ea	11,366
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,077.21 /ea	13,077
					Uninterruptible power supply, charger, inverter, and alarm 1 phase, 120 V, 5 kVA, incl 10 minutes battery	1.00 ea	48	5,325	7,100	-	492	-	12,916.86 /ea	12,917	20,632.50 /ea	20,633
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**131**	**14,001**	**18,844**		**492**		**33,336.98 /LS**	**33,337**	**53,287.89 /LS**	**53,288**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.25 clf	0	32	14	-	-	-	182.92 /clf	46	288.88 /clf	72
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.15 clf	0	24	12	-	-	-	235.00 /clf	35	371.60 /clf	56
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	1.00 clf	2	209	159	-	-	-	367.63 /clf	368	584.09 /clf	584
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	0.60 clf	2	228	231	-	-	-	764.33 /clf	459	1,218.35 /clf	731
					26.15.01.00 Process Electrical, Wire/Cable	**2.00 clf**	**5**	**492**	**415**				**453.61 /clf**	**907**	**721.53 /clf**	**1,443**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 30 kVA	1.00 EA	18	1,855	1,800	-	-	-	3,654.52 /EA	3,655	5,822.34 /EA	5,822
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**18**	**1,855**	**1,800**				**3,654.52 /EA**	**3,655**	**5,822.34 /EA**	**5,822**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**153**	**16,347**	**21,060**		**492**		**37,898.71 /LS**	**37,899**	**60,553.29 /LS**	**60,553**
					26.25 Electrical Equipment	***1.00*** **LS**	**153**	**16,347**	**21,060**		**492**		**37,898.71 /LS**	**37,899**	**60,553.29 /LS**	**60,553**
					26.0 Electrical Work	***1.00*** **LS**	**1,994**	**208,323**	**124,539**	**5,000**	**892**		**338,754.71 /LS**	**338,755**	**535,132.74 /LS**	**535,133**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.10.COMEQ		**Communications Room Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	12	1,284	214	-	-	-	7.49 /lf	1,498	11.74 /lf	2,348
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.49 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.57 /ea	86
					Duplex receptacle, grounded, 120 volt, 20 amp	4.00 ea	1	124	43	-	-	-	41.56 /ea	166	65.50 /ea	262
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,627**	**273**				**1,899.76 /LS**	**1,900**	**2,978.65 /LS**	**2,979**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Closet Distribution Frame (CDF), 7 feet tall, 19 inches wide	1.00 E	16	1,681	2,500	-	-	-	4,181.04 /E	4,181	6,693.14 /E	6,693
					Network Equipment Allowance	1.00 LS	200	21,018	80,000	-	-	-	101,018.20 /LS	101,018	163,133.80 /LS	163,134
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	6.50 clf	5	493	89	-	-	-	89.57 /clf	582	140.49 /clf	913
					26.15.01.00 Process Electrical, Wire/Cable	**6.50 clf**	**221**	**23,192**	**82,589**				**16,274.06 /clf**	**105,781**	**26,267.71 /clf**	**170,740**
				26.15.03.00	**Process Electrical, Cable Tray**											
					Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 12" wide, to 15' elevation, incl fittings & supports	30.00 LF	6	582	539	-	-	-	37.36 /LF	1,121	59.49 /LF	1,785
					26.15.03.00 Process Electrical, Cable Tray	**30.00 LF**	**6**	**582**	**539**				**37.36 /LF**	**1,121**	**59.49 /LF**	**1,785**
					27.10.COMEQ Communications Room Equipment	***1.00*** **LS**	**242**	**25,401**	**83,401**				**108,801.91 /LS**	**108,802**	**175,503.35 /LS**	**175,503**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,604.70 /ton	4,144
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	800.00 LF	80	8,345	2,976	-	-	-	14.15 /LF	11,321	22.31 /LF	17,849
					26.10.02.00 Site Electrical, Buried Conduit	**800.00 LF**	**91**	**9,593**	**4,326**				**17.40 /LF**	**13,919**	**27.49 /LF**	**21,993**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	130.00 clf	80	8,345	1,261	-	-	-	73.90 /clf	9,606	115.79 /clf	15,053
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	130.00 clf	149	15,499	3,900	-	-	-	149.22 /clf	19,399	234.58 /clf	30,496
					26.15.01.00 Process Electrical, Wire/Cable	**260.00 clf**	**229**	**23,844**	**5,161**				**111.56 /clf**	**29,005**	**175.19 /clf**	**45,549**
				26.15.11.00	**Process Electrical, Grounding**											
					Ground wire, copper wire, bare stranded, 4/0	1.55 clf	4	452	649	-	-	-	712.82 /clf	1,101	1,140.67 /clf	1,762
					Water pipe ground clamps, heavy duty, bronze, 1-1/4" to 2" diameter	1.50 ea	2	156	47	-	-	-	135.32 /ea	203	213.00 /ea	320
					26.15.11.00 Process Electrical, Grounding	**1.55 clf**	**6**	**609**	**695**				**844.20 /clf**	**1,304**	**1,347.46 /clf**	**2,082**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**325**	**34,046**	**10,182**				**44,228.56 /LS**	**44,229**	**69,623.31 /LS**	**69,623**
					27.00 Telecommunications	***1.00*** **LS**	**567**	**59,447**	**93,583**				**153,030.47 /LS**	**153,030**	**245,126.66 /LS**	**245,127**
					27.0 Telecommunications - Network	***1.00*** **LS**	**567**	**59,447**	**93,583**				**153,030.47 /LS**	**153,030**	**245,126.66 /LS**	**245,127**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.74 /lf	21,371
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.48 /ea	4,229
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.56 /ea	173
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	52.00 ea	7	678	86	-	-	-	14.70 /ea	764	23.01 /ea	1,197
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**144**	**14,970**	**2,242**				**17,211.58 /LS**	**17,212**	**26,969.24 /LS**	**26,969**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.79 /clf	34,738

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.79 /clf**	**34,738**
					28.10.FA Fire Alarm System	***1.00* LS**	**328**	**34,228**	**5,152**				**39,380.10 /LS**	**39,380**	**61,707.24 /LS**	**61,707**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	200	20,863	10,000	10,000	-	-	40,863.40 /LS	40,863	61,368.93 /LS	61,369
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,368.93 /LS**	**61,369**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00* LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,368.93 /LS**	**61,369**
					28.00 Electronic Safety and Security	***1.00* LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**123,076.17 /LS**	**123,076**
					28.0 Electronic Safety and Security	***1.00* LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**123,076.17 /LS**	**123,076**
					2171 Funks PGP HVAC Building	***1.00* LS**	**5,553**	**577,605**	**685,908**	**68,246**	**5,202**		**1,336,961.01 /LS**	**1,336,961**	**1,957,463.65 /LS**	**1,957,464**
2175					**Funks PGP Emergency Dissipation Structure**											
	03.0				**Concrete Work**											
		03.11			**Cast-In-Place Concrete, Grade Walls**											
			MOA-03.05.003		**60" thick, 7'-9" high Foundation Wall**											
				03.10.00.60	**Concrete, Cast-in-Place, Grade Walls, 60" Thick**											
					Concrete pumping, subcontract, all inclusive price	222.00 cy		-	-	5,550	-	-	25.00 /cy	5,550	36.44 /cy	8,089
					Forms in place, walls, < 8' high, hand set	2,390.10 sf	359	38,842	2,390	-	-	-	17.25 /sf	41,232	25.22 /sf	60,268
					Concrete, ready mix, 4500 psi	222.00 CY		-	48,840	-	-	-	220.00 /CY	48,840	336.60 /CY	74,724
					Add for concrete waste, 4500 psi	7.00 cy		-	1,540	-	-	-	220.00 /cy	1,540	336.60 /cy	2,356
					Placing concrete, concrete pump	222.00 cy	324	29,252	-	-	-	-	131.77 /cy	29,252	192.05 /cy	42,635
					Patch & plug tieholes	2,390.10 sf	36	3,241	48	-	-	-	1.38 /sf	3,288	2.01 /sf	4,796
					Stone rub	2,390.10 sf	120	10,802	72	-	-	-	4.55 /sf	10,874	6.63 /sf	15,853
					Curing, membrane spray	2,390.10 sf	5	432	96	-	-	-	0.22 /sf	528	0.32 /sf	776
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	20.00 ton	320	37,441	30,000	-	-	-	3,372.03 /ton	67,441	5,023.42 /ton	100,468
					Reinforcing in place, unloading & sorting, add to above - slabs	20.00 ton	11	1,335	-	-	464	-	89.94 /ton	1,799	131.09 /ton	2,622
					Reinforcing steel, crane cost for handling, average, add	20.00 ton	12	1,451	-	-	504	-	97.76 /ton	1,955	142.49 /ton	2,850
					03.10.00.60 Concrete, Cast-in-Place, Grade Walls, 60" Thick	**222.00 CY**	**1,186**	**122,796**	**82,985**	**5,550**	**968**		**956.30 /CY**	**212,299**	**1,420.89 /CY**	**315,438**
					MOA-03.05.003 60" thick, 7'-9" high Foundation Wall	**222.00 CY**	**1,186**	**122,796**	**82,985**	**5,550**	**968**		**956.30 /CY**	**212,299**	**1,420.89 /CY**	**315,438**
			MOA-03.05.005		**60" thick, 9'-1" high Foundation Wall**											
				03.10.00.60	**Concrete, Cast-in-Place, Grade Walls, 60" Thick**											
					Concrete pumping, subcontract, all inclusive price	305.00 cy		-	-	7,625	-	-	25.00 /cy	7,625	36.44 /cy	11,113
					Forms in place, structural walls, > 8' to 16' high, hand set	3,288.05 sf	658	71,246	4,110	-	-	-	22.92 /sf	75,356	33.49 /sf	110,128
					Concrete, ready mix, 4500 psi	305.00 CY		-	67,100	-	-	-	220.00 /CY	67,100	336.60 /CY	102,662
					Add for concrete waste, 4500 psi	10.00 cy		-	2,200	-	-	-	220.00 /cy	2,200	336.59 /cy	3,366
					Placing concrete, concrete pump, for structural wall >24" thick	305.00 cy	337	30,432	-	-	-	-	99.78 /cy	30,432	145.42 /cy	44,354
					Patch & plug tieholes	3,288.05 sf	49	4,458	66	-	-	-	1.38 /sf	4,524	2.01 /sf	6,598
					Stone rub	3,288.05 sf	164	14,860	99	-	-	-	4.55 /sf	14,959	6.63 /sf	21,809
					Curing, membrane spray	3,288.05 sf	7	594	132	-	-	-	0.22 /sf	726	0.32 /sf	1,068
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	27.00 ton	432	50,545	40,500	-	-	-	3,372.03 /ton	91,045	5,023.42 /ton	135,632
					Reinforcing in place, unloading & sorting, add to above - slabs	27.00 ton	15	1,802	-	-	626	-	89.94 /ton	2,428	131.09 /ton	3,539
					Reinforcing steel, crane cost for handling, average, add	27.00 ton	16	1,959	-	-	681	-	97.76 /ton	2,640	142.49 /ton	3,847
					03.10.00.60 Concrete, Cast-in-Place, Grade Walls, 60" Thick	**305.00 CY**	**1,678**	**175,897**	**114,206**	**7,625**	**1,307**		**980.44 /CY**	**299,034**	**1,456.12 /CY**	**444,116**
					MOA-03.05.005 60" thick, 9'-1" high Foundation Wall	**305.00 CY**	**1,678**	**175,897**	**114,206**	**7,625**	**1,307**		**980.44 /CY**	**299,034**	**1,456.12 /CY**	**444,116**
					03.11 Cast-In-Place Concrete, Grade Walls	**527.00 CY**	**2,864**	**298,693**	**197,191**	**13,175**	**2,274**		**970.27 /CY**	**511,333**	**1,441.28 /CY**	**759,554**
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.005		**4'-0" thick Mat Slab on Grade**											
				03.10.05.48	**Cast-In-Place Concrete, Slabs on Grade, 48" thick**											
					Fine grade, for slab on grade, by hand	17,640.00 sf	123	11,161	529	-	-	-	0.66 /sf	11,690	0.97 /sf	17,077
					Fill, gravel subbase, under building slab on grade	1,306.67 cy	653	59,054	36,587	-	-	-	73.19 /cy	95,641	108.71 /cy	142,047
					Concrete pumping, subcontract, all inclusive price	2,614.00 cy		-	-	65,350	-	-	25.00 /cy	65,350	36.44 /cy	95,246
					Base slab edge forms, 36" to 48"	2,252.00 sf	563	60,996	3,040	-	-	-	28.44 /sf	64,036	41.54 /sf	93,552
					Keyway form	563.00 lf	84	9,149	282	-	-	-	16.75 /lf	9,431	24.45 /lf	13,766
					Expansion joint material, closed cell neoprene, 1"	2,252.00 sf	68	7,320	13,512	-	-	-	9.25 /sf	20,832	13.92 /sf	31,341
					Waterstop, hydro-flex	563.00 lf	3	305	2,252	-	-	-	4.54 /lf	2,557	6.91 /lf	3,890
					Concrete, ready mix, 4500 psi	2,614.00 CY		-	575,080	-	-	-	220.00 /CY	575,080	336.60 /CY	879,861
					Add for concrete waste, 4500 psi	79.00 cy		-	17,380	-	-	-	220.00 /cy	17,380	336.60 /cy	26,591
					Placing concrete, concrete pump, for base slab 36" to 48"	2,614.00 cy	2,564	231,757	-	-	-	-	88.66 /cy	231,757	129.22 /cy	337,781
					Finishing floors, monolithic, trowel finish (machine)	17,640.00 sf	353	32,225	353	-	-	-	1.85 /sf	32,578	2.69 /sf	47,508
					Construction Joint Prep.	2,252.00 sf	180	16,284	113	-	-	-	7.28 /sf	16,397	10.62 /sf	23,907
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	563.00 lf		-	-	1,689	-	-	3.00 /lf	1,689	4.37 /lf	2,462
					Contraction Joint Option, Slabs, Preformed Joint	563.00 lf		-	1,126	-	-	-	2.00 /lf	1,126	3.06 /lf	1,723
					Curing, membrane spray	17,640.00 sf	35	3,189	706	-	-	-	0.22 /sf	3,895	0.32 /sf	5,727
					Perimeter insulation, polystyrene, 2" thick, R8	2,252.00 sf	27		1,306	-	-	-	0.58 /sf	1,306	0.89 /sf	1,998
					Polyethelene vapor barrier, 10 mil thick	176.40 sq	39	4,181	1,870	-	-	-	34.30 /sq	6,051	50.76 /sq	8,954
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	196.00 ton	3,136	366,918	294,000	-	-	-	3,372.03 /ton	660,918	5,023.42 /ton	984,590
					Reinforcing in place, unloading & sorting, add to above - slabs	196.00 ton	110	13,084	-	-	4,545	-	89.94 /ton	17,629	131.09 /ton	25,694
					Reinforcing steel, crane cost for handling, average, add	196.00 ton	119	14,222	-	-	4,940	-	97.76 /ton	19,162	142.49 /ton	27,928
					03.10.05.48 Cast-In-Place Concrete, Slabs on Grade, 48" thick	**2,614.00 CY**	**8,058**	**829,846**	**948,135**	**67,039**	**9,485**		**709.45 /CY**	**1,854,505**	**1,060.31 /CY**	**2,771,643**
					MOA-03.20.005 4'-0" thick Mat Slab on Grade	**2,614.00 CY**	**8,058**	**829,846**	**948,135**	**67,039**	**9,485**		**709.45 /CY**	**1,854,505**	**1,060.31 /CY**	**2,771,643**
			MOA-03.20.007		**4'-0" thick Inclined Mat Slab on Grade**											
				03.10.05.48	**Cast-In-Place Concrete, Slabs on Grade, 48" thick**											
					Fine grade, for slab on grade, by hand	8,432.00 sf	59	5,335	253	-	-	-	0.66 /sf	5,588	0.97 /sf	8,163
					Fill, gravel subbase, under building slab on grade	625.00 cy	313	28,247	17,500	-	-	-	73.19 /cy	45,747	108.71 /cy	67,943
					Concrete pumping, subcontract, all inclusive price	1,250.00 cy		-	-	31,250	-	-	25.00 /cy	31,250	36.44 /cy	45,546
					Base slab edge forms, 36" to 48"	1,716.00 sf	429	46,478	2,317	-	-	-	28.44 /sf	48,795	41.54 /sf	71,286
					Keyway form	429.00 lf	64	6,972	215	-	-	-	16.75 /lf	7,186	24.45 /lf	10,489
					Expansion joint material, closed cell neoprene, 1"	1,716.00 sf	51	5,577	10,296	-	-	-	9.25 /sf	15,873	13.92 /sf	23,882
					Waterstop, PVC, center bulb, 9" wide	429.00 lf	34	3,718	1,287	-	-	-	11.67 /lf	5,005	17.22 /lf	7,388
					Concrete, ready mix, 4500 psi	1,250.00 CY		-	275,000	-	-	-	220.00 /CY	275,000	336.60 /CY	420,744
					Add for concrete waste, 4500 psi	38.00 cy		-	8,360	-	-	-	220.00 /cy	8,360	336.60 /cy	12,791

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.48	**Cast-In-Place Concrete, Slabs on Grade, 48" thick**											
					Placing concrete, concrete pump, for base slab 36" to 48"	1,250.00 cy	1,226	110,825	-	-	-	-	88.66 /cy	110,825	129.22 /cy	161,525
					Finishing floors, monolithic, trowel finish (machine)	8,432.00 sf	169	15,404	169	-	-	-	1.85 /sf	15,573	2.69 /sf	22,709
					Construction Joint Prep.	1,716.00 sf	137	12,409	86	-	-	-	7.28 /sf	12,494	10.62 /sf	18,217
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	429.00 lf		-	-	1,287	-	-	3.00 /lf	1,287	4.37 /lf	1,876
					Contraction Joint Option, Slabs, Preformed Joint	429.00 lf		-	858	-	-	-	2.00 /lf	858	3.06 /lf	1,313
					Curing, membrane spray	8,432.00 sf	17	1,524	337	-	-	-	0.22 /sf	1,862	0.32 /sf	2,738
					Perimeter insulation, polystyrene, 2" thick, R8	1,716.00 sf	21		995	-	-	-	0.58 /sf	995	0.89 /sf	1,523
					Polyethelene vapor barrier, 10 mil thick	84.32 sq	19	1,999	894	-	-	-	34.30 /sq	2,892	50.76 /sq	4,280
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	94.00 ton	1,504	175,971	141,000	-	-	-	3,372.03 /ton	316,971	5,023.42 /ton	472,201
					Reinforcing in place, unloading & sorting, add to above - slabs	94.00 ton	53	6,275	-	-	2,180	-	89.94 /ton	8,455	131.09 /ton	12,323
					Reinforcing steel, crane cost for handling, average, add	94.00 ton	57	6,821	-	-	2,369	-	97.76 /ton	9,190	142.49 /ton	13,394
					03.10.05.48 Cast-In-Place Concrete, Slabs on Grade, 48" thick	**1,250.00 CY**	**4,153**	**427,554**	**459,566**	**32,537**	**4,549**		**739.36 /CY**	**924,206**	**1,104.26 /CY**	**1,380,330**
					MOA-03.20.007 4'-0" thick Inclined Mat Slab on Grade	**1,250.00 CY**	**4,153**	**427,554**	**459,566**	**32,537**	**4,549**		**739.36 /CY**	**924,206**	**1,104.26 /CY**	**1,380,330**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**3,864.00 CY**	**12,210**	**1,257,401**	**1,407,700**	**99,576**	**14,033**		**719.13 /CY**	**2,778,710**	**1,074.53 /CY**	**4,151,973**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			MOA-03.25.007		**4'-0" thick CIP Exterior Wall - 28'-2" high - below grade**											
				03.10.00.48	**Concrete, Cast-in-Place, Grade Walls, 48" Thick**											
					Concrete pumping, subcontract, all inclusive price	1,820.00 cy		-	-	45,500	-	-	25.00 /cy	45,500	36.44 /cy	66,315
					Forms in place, structural walls, > 16' high, hand set	24,564.24 sf	4,176	452,423	33,162	-	-	-	19.77 /sf	485,585	28.91 /sf	710,135
					Concrete, ready mix, 4500 psi	1,820.00 CY		-	400,400	-	-	-	220.00 /CY	400,400	336.60 /CY	612,604
					Add for concrete waste, 4500 psi	55.00 cy		-	12,100	-	-	-	220.00 /cy	12,100	336.60 /cy	18,513
					Placing concrete, concrete pump, for structural wall >24" thick	1,820.00 cy	2,009	181,593	-	-	-	-	99.78 /cy	181,593	145.42 /cy	264,668
					Patch & plug tieholes	24,564.24 sf	368	33,305	491	-	-	-	1.38 /sf	33,796	2.01 /sf	49,293
					Stone rub	24,564.24 sf	1,228	111,017	737	-	-	-	4.55 /sf	111,754	6.63 /sf	162,932
					Curing, membrane spray	24,564.24 sf	49	4,441	983	-	-	-	0.22 /sf	5,423	0.32 /sf	7,975
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	137.00 ton	2,192	256,468	205,500	-	-	-	3,372.03 /ton	461,968	5,023.42 /ton	688,208
					Reinforcing in place, unloading & sorting, add to above - slabs	137.00 ton	77	9,146	-	-	3,177	-	89.94 /ton	12,322	131.09 /ton	17,959
					Reinforcing steel, crane cost for handling, average, add	137.00 ton	83	9,941	-	-	3,453	-	97.76 /ton	13,394	142.49 /ton	19,521
					03.10.00.48 Concrete, Cast-in-Place, Grade Walls, 48" Thick	**1,820.00 CY**	**10,183**	**1,058,334**	**653,373**	**45,500**	**6,630**		**969.14 /CY**	**1,763,836**	**1,438.53 /CY**	**2,618,125**
					MOA-03.25.007 4'-0" thick CIP Exterior Wall - 28'-2" high - below grade	**1,820.00 CY**	**10,183**	**1,058,334**	**653,373**	**45,500**	**6,630**		**969.14 /CY**	**1,763,836**	**1,438.53 /CY**	**2,618,125**
			MOA-03.25.008		**2'-0" thick CIP Interior Wall - 20'-0" high**											
				03.10.00.20	**Concrete, Cast-in-Place, Grade Walls, 20" Wide**											
					Concrete pumping, subcontract, all inclusive price	223.00 cy		-	-	5,575	-	-	25.00 /cy	5,575	36.44 /cy	8,125
					Forms in place, structural walls, > 16' high, hand set	6,000.00 sf	1,020	110,508	8,100	-	-	-	19.77 /sf	118,608	28.91 /sf	173,456
					Concrete, ready mix, 4500 psi	223.00 CY		-	49,060	-	-	-	220.00 /CY	49,060	336.60 /CY	75,061
					Add for concrete waste, 4500 psi	7.00 cy		-	1,540	-	-	-	220.00 /cy	1,540	336.59 /cy	2,356
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	223.00 cy	246	22,250	-	-	-	-	99.78 /cy	22,250	145.42 /cy	32,429
					Patch & plug tieholes	6,000.00 sf	90	8,135	120	-	-	-	1.38 /sf	8,255	2.01 /sf	12,040
					Stone rub	6,000.00 sf	300	27,117	180	-	-	-	4.55 /sf	27,297	6.63 /sf	39,797
					Curing, membrane spray	6,000.00 sf	12	1,085	240	-	-	-	0.22 /sf	1,325	0.32 /sf	1,948
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	19.75 ton	316	36,973	29,625	-	-	-	3,372.03 /ton	66,598	5,023.42 /ton	99,213
					Reinforcing in place, unloading & sorting, add to above - slabs	19.75 ton	11	1,318	-	-	458	-	89.94 /ton	1,776	131.09 /ton	2,589
					Reinforcing steel, crane cost for handling, average, add	19.75 ton	12	1,433	-	-	498	-	97.76 /ton	1,931	142.49 /ton	2,814
					03.10.00.20 Concrete, Cast-in-Place, Grade Walls, 20" Wide	**223.00 CY**	**2,007**	**208,818**	**88,865**	**5,575**	**956**		**1,364.19 /CY**	**304,214**	**2,017.17 /CY**	**449,829**
					MOA-03.25.008 2'-0" thick CIP Interior Wall - 20'-0" high	**223.00 CY**	**2,007**	**208,818**	**88,865**	**5,575**	**956**		**1,364.19 /CY**	**304,214**	**2,017.17 /CY**	**449,829**
			MOA-03.25.009		**3'-0" thick CIP Interior Wall - 28'-6" high**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	1,473.00 cy		-	-	36,825	-	-	25.00 /cy	36,825	36.44 /cy	53,672
					Forms in place, structural walls, > 16' high, hand set	26,505.00 sf	4,506	488,168	35,782	-	-	-	19.77 /sf	523,950	28.91 /sf	766,241
					Concrete, ready mix, 4500 psi	1,473.00 CY		-	324,060	-	-	-	220.00 /CY	324,060	336.60 /CY	495,805
					Add for concrete waste, 4500 psi	45.00 cy		-	9,900	-	-	-	220.00 /cy	9,900	336.60 /cy	15,147
					Placing concrete, concrete pump, for structural wall >24" thick	1,473.00 cy	1,626	146,971	-	-	-	-	99.78 /cy	146,971	145.42 /cy	214,207
					Patch & plug tieholes	26,505.00 sf	398	35,936	530	-	-	-	1.38 /sf	36,467	2.01 /sf	53,188
					Stone rub	26,505.00 sf	1,325	119,788	795	-	-	-	4.55 /sf	120,583	6.63 /sf	175,805
					Curing, membrane spray	26,505.00 sf	53	4,792	1,060	-	-	-	0.22 /sf	5,852	0.32 /sf	8,606
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	129.00 ton	2,064	241,492	193,500	-	-	-	3,372.03 /ton	434,992	5,023.42 /ton	648,021
					Reinforcing in place, unloading & sorting, add to above - slabs	129.00 ton	72	8,612	-	-	2,991	-	89.94 /ton	11,603	131.09 /ton	16,911
					Reinforcing steel, crane cost for handling, average, add	129.00 ton	79	9,360	-	-	3,251	-	97.76 /ton	12,612	142.49 /ton	18,381
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**1,473.00 CY**	**10,122**	**1,055,119**	**565,627**	**36,825**	**6,242**		**1,129.54 /CY**	**1,663,813**	**1,674.12 /CY**	**2,465,983**
					MOA-03.25.009 3'-0" thick CIP Interior Wall - 28'-6" high	**1,473.00 CY**	**10,122**	**1,055,119**	**565,627**	**36,825**	**6,242**		**1,129.54 /CY**	**1,663,813**	**1,674.12 /CY**	**2,465,983**
			MOA-03.25.010		**4'-0" thick CIP Interior Wall - 28'-6" high**											
				03.10.00.48	**Concrete, Cast-in-Place, Grade Walls, 48" Thick**											
					Concrete pumping, subcontract, all inclusive price	700.00 cy		-	-	17,500	-	-	25.00 /cy	17,500	36.44 /cy	25,506
					Forms in place, structural walls, > 16' high, hand set	9,438.00 sf	1,604	173,829	12,741	-	-	-	19.77 /sf	186,570	28.91 /sf	272,846
					Concrete, ready mix, 4500 psi	700.00 CY		-	154,000	-	-	-	220.00 /CY	154,000	336.60 /CY	235,617
					Add for concrete waste, 4500 psi	21.00 cy		-	4,620	-	-	-	220.00 /cy	4,620	336.60 /cy	7,069
					Placing concrete, concrete pump, for structural wall >24" thick	700.00 cy	773	69,843	-	-	-	-	99.78 /cy	69,843	145.42 /cy	101,795
					Patch & plug tieholes	9,438.00 sf	142	12,796	189	-	-	-	1.38 /sf	12,985	2.01 /sf	18,939
					Stone rub	9,438.00 sf	472	42,655	283	-	-	-	4.55 /sf	42,938	6.63 /sf	62,601
					Curing, membrane spray	9,438.00 sf	19	1,706	378	-	-	-	0.22 /sf	2,084	0.32 /sf	3,064
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	62.00 ton	992	116,066	93,000	-	-	-	3,372.03 /ton	209,066	5,023.42 /ton	311,452
					Reinforcing in place, unloading & sorting, add to above - slabs	62.00 ton	35	4,139	-	-	1,438	-	89.94 /ton	5,576	131.09 /ton	8,128
					Reinforcing steel, crane cost for handling, average, add	62.00 ton	38	4,499	-	-	1,563	-	97.76 /ton	6,061	142.49 /ton	8,834
					03.10.00.48 Concrete, Cast-in-Place, Grade Walls, 48" Thick	**700.00 CY**	**4,074**	**425,533**	**265,211**	**17,500**	**3,000**		**1,016.06 /CY**	**711,244**	**1,508.36 /CY**	**1,055,852**
					MOA-03.25.010 4'-0" thick CIP Interior Wall - 28'-6" high	**700.00 CY**	**4,074**	**425,533**	**265,211**	**17,500**	**3,000**		**1,016.06 /CY**	**711,244**	**1,508.36 /CY**	**1,055,852**
					03.20 Cast-In-Place Concrete, Straight Walls	**4,216.00 CY**	**26,386**	**2,747,804**	**1,573,075**	**105,400**	**16,828**		**1,053.87 /CY**	**4,443,107**	**1,563.04 /CY**	**6,589,788**
		03.23			**Cast-In-Place Concrete, Columns**											
			MOA-03.27.003		**3'-6" x 4'-0" CIP Column; 20'-6" high**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.09.48	Cast-In-Place Concrete, Columns, 48"											
					Concrete pumping, subcontract, all inclusive price	383.00 cy		-	-	9,575	-	-	25.00 /cy	9,575	36.44 /cy	13,955
					Forms in place, columns, rectangular, over 18" sq.	11,070.00 sf	2,214	239,867	16,605	-	-	-	23.17 /sf	256,472	33.88 /sf	375,007
					Forms in place, column capitals, rectangular	648.00 sf	130	14,041	972	-	-	-	23.17 /sf	15,013	33.88 /sf	21,952
					Concrete, ready mix, 4500 psi	383.00 CY		-	84,260	-	-	-	220.00 /CY	84,260	336.60 /CY	128,916
					Add for concrete waste, 4500 psi	12.00 cy		-	2,640	-	-	-	220.00 /cy	2,640	336.60 /cy	4,039
					Placing concrete, concrete pump	383.00 cy	558	50,467	-	-	-	-	131.77 /cy	50,467	192.05 /cy	73,554
					Stone rub	11,070.00 sf	554	50,030	332	-	-	-	4.55 /sf	50,362	6.63 /sf	73,426
					Curing, membrane spray	11,070.00 sf	22	2,001	443	-	-	-	0.22 /sf	2,444	0.32 /sf	3,594
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	96.00 ton	1,536	179,715	144,000	-	-	-	3,372.03 /ton	323,715	5,023.42 /ton	482,248
					Reinforcing in place, unloading & sorting, add to above - slabs	96.00 ton	54	6,409	-	-	2,226	-	89.94 /ton	8,635	131.09 /ton	12,585
					Reinforcing steel, crane cost for handling, average, add	96.00 ton	58	6,966	-	-	2,420	-	97.76 /ton	9,385	142.49 /ton	13,679
					03.10.09.48 Cast-In-Place Concrete, Columns, 48"	**383.00 CY**	**5,126**	**549,496**	**249,252**	**9,575**	**4,646**		**2,122.63 /CY**	**812,968**	**3,140.88 /CY**	**1,202,956**
					MOA-03.27.003 3'-6" x 4'-0" CIP Column; 20'-6" high	**383.00 CY**	**5,126**	**549,496**	**249,252**	**9,575**	**4,646**		**2,122.63 /CY**	**812,968**	**3,140.88 /CY**	**1,202,956**
					03.23 Cast-In-Place Concrete, Columns	**383.00 CY**	**5,126**	**549,496**	**249,252**	**9,575**	**4,646**		**2,122.63 /CY**	**812,968**	**3,140.88 /CY**	**1,202,956**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.003		**2'-0" thick CIP Upper Floor**											
				03.10.10.24	Cast-In-Place Concrete, Elevated Decks, 24" thick											
					Concrete pumping, subcontract, all inclusive price	882.00 cy		-	-	22,050	-	-	25.00 /cy	22,050	36.44 /cy	32,137
					Forms in place, elevated slab, soffit	11,894.00 sf	2,379	257,722	14,868	-	-	-	22.92 /sf	272,589	33.49 /sf	398,371
					Forms in place, elevated slab, edge form	1,022.00 sf	256	27,681	1,278	-	-	-	28.34 /sf	28,959	41.39 /sf	42,299
					Slab shoring	362,767.00 cf	2,539	275,118	18,138	-	-	-	0.81 /cf	293,256	1.18 /cf	428,730
					Concrete, ready mix, 4500 psi	882.00 CY		-	194,040	-	-	-	220.00 /CY	194,040	336.60 /CY	296,877
					Add for concrete waste, 4500 psi	27.00 cy		-	5,940	-	-	-	220.00 /cy	5,940	336.60 /cy	9,088
					Placing concrete, concrete pump, for elevated slab over 12" thick	882.00 cy	865	78,198	-	-	-	-	88.66 /cy	78,198	129.22 /cy	113,972
					Curing, membrane spray	11,894.00 sf	24	2,150	476	-	-	-	0.22 /sf	2,626	0.32 /sf	3,862
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	77.50 ton	1,240	145,082	116,250	-	-	-	3,372.03 /ton	261,332	5,023.42 /ton	389,315
					Reinforcing in place, unloading & sorting, add to above - slabs	77.50 ton	43	5,174	-	-	1,797	-	89.94 /ton	6,971	131.09 /ton	10,160
					Reinforcing steel, crane cost for handling, average, add	77.50 ton	47	5,623	-	-	1,953	-	97.76 /ton	7,577	142.49 /ton	11,043
					Concrt fnshng,floors,basic fnshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	11,894.00 sf	154	14,076	-	-	-	-	1.18 /sf	14,076	1.72 /sf	20,516
					03.10.10.24 Cast-In-Place Concrete, Elevated Decks, 24" thick	**882.00 CY**	**7,547**	**810,825**	**350,989**	**22,050**	**3,750**		**1,346.50 /CY**	**1,187,614**	**1,991.35 /CY**	**1,756,370**
					MOA-03.30.003 2'-0" thick CIP Upper Floor	**882.00 CY**	**7,547**	**810,825**	**350,989**	**22,050**	**3,750**		**1,346.50 /CY**	**1,187,614**	**1,991.35 /CY**	**1,756,370**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**882.00 CY**	**7,547**	**810,825**	**350,989**	**22,050**	**3,750**		**1,346.50 /CY**	**1,187,614**	**1,991.35 /CY**	**1,756,370**
					03.0 Concrete Work	**9,872.00 CY**	**54,134**	**5,664,218**	**3,778,208**	**249,776**	**41,532**		**985.99 /CY**	**9,733,733**	**1,464.81 /CY**	**14,460,641**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	225.00 LF	45	5,622	14,063	-	211	-	88.43 /LF	19,896	128.99 /LF	29,023
					36" Self Closing Gate	5.00 ea	40	4,998	4,250	-	188	-	1,887.07 /ea	9,435	2,717.64 /ea	13,588
					05.50.04.10 Metals, Pipe and Tube Railings	**225.00 LF**	**85**	**10,620**	**18,313**		**399**		**130.36 /LF**	**29,331**	**189.38 /LF**	**42,611**
					05.00.000 Hand Railing	**225.00 LF**	**85**	**10,620**	**18,313**		**399**		**130.36 /LF**	**29,331**	**189.38 /LF**	**42,611**
			05.00.002		**Ladders**											
				05.50.03.20	Metal Ladders, Steel w/o Cage											
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage	135.00 LF	128	15,993	16,200	-	600	-	242.91 /LF	32,793	350.60 /LF	47,330
					05.50.03.20 Metal Ladders, Steel w/o Cage	**135.00 LF**	**128**	**15,993**	**16,200**		**600**		**242.91 /LF**	**32,793**	**350.60 /LF**	**47,330**
					05.00.002 Ladders	**135.00 LF**	**128**	**15,993**	**16,200**		**600**		**242.91 /LF**	**32,793**	**350.60 /LF**	**47,330**
			05.00.004		**Metal Grating**											
				05.50.05.00	Metals, Gratings											
					Structural steel member, W8x24, A992 steel, shop fabricated, incl shop primer, bolted connections	70.00 lf	32	3,976	3,045	-	2,743	-	139.49 /lf	9,764	199.48 /lf	13,963
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	940.00 SF	195	24,267	49,820	-	16,746	-	96.63 /SF	90,832	139.85 /SF	131,456
					Miscellaneous Bridging and Bracing	1.00 ls				15,000	-	-	15,000.00 /ls	15,000	18,862.19 /ls	18,862
					05.50.05.00 Metals, Gratings	**940.00 SF**	**227**	**28,242**	**52,865**	**15,000**	**19,489**		**122.97 /SF**	**115,596**	**174.77 /SF**	**164,282**
					05.00.004 Metal Grating	**940.00 SF**	**227**	**28,242**	**52,865**	**15,000**	**19,489**		**122.97 /SF**	**115,596**	**174.77 /SF**	**164,282**
			05.00.015		**Metal Grating Platforms**											
				05.50.02.50	Metals, Elevated Platforms, Complete											
					Column, structural tubing, 3" x 3" x 1/4", incl shop primer, cap & base plate, bolts	16.00 ea	15	1,919	4,352	-	757	-	439.25 /ea	7,028	637.96 /ea	10,207
					Structural steel member, W8x31, A992 steel, shop fabricated, incl shop primer, bolted connections	108.00 lf	48	5,963	6,048	-	1,372	-	123.92 /lf	13,383	178.47 /lf	19,275
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage	32.00 vlf	32	3,998	2,720	-	75	-	212.29 /vlf	6,793	304.95 /vlf	9,759
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	108.00 lf	22	2,699	6,750	-	101	-	88.43 /lf	9,550	128.99 /lf	13,931
					Grating frame, perimeter, field fabricated	108.00 lf	12	1,531	545	-	-	-	19.22 /lf	2,076	27.42 /lf	2,962
					Grating frame, Perimeter, for each corner, add	16.00 ea		-	78	-	-	-	4.89 /ea	78	7.24 /ea	116
					Floor grating, steel, galvy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	164.00 SF	20	2,536	7,872	-	1,000	-	69.56 /SF	11,407	101.38 /SF	16,626
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	6,000	-	-	-	10,000.00 /ls	10,000	14,509.80 /ls	14,510
					05.50.02.50 Metals, Elevated Platforms, Complete	**164.00 SF**	**150**	**22,646**	**34,366**		**3,305**		**367.78 /SF**	**60,316**	**532.84 /SF**	**87,386**
					05.00.015 Metal Grating Platforms	**164.00 SF**	**150**	**22,646**	**34,366**		**3,305**		**367.78 /SF**	**60,316**	**532.84 /SF**	**87,386**
			05.00.200		**SST Energy Dissipators**											
				05.00.99.00	Metals, Other											
					SST Energy Dissipators, Includes Saddles, Allowance	4.00 EA	2,240	161,149	2,400,000	-	95,332	-	664,120.16 /EA	2,656,481	978,235.76 /EA	3,912,943
					05.00.99.00 Metals, Other	***1.00* LS**	**2,240**	**161,149**	**2,400,000**		**95,332**		**2,656,480.64 /LS**	**2,656,481**	**3,912,943.06 /LS**	**3,912,943**
					05.00.200 SST Energy Dissipators	**4.00 EA**	**2,240**	**161,149**	**2,400,000**		**95,332**		**664,120.16 /EA**	**2,656,481**	**978,235.76 /EA**	**3,912,943**
					05.00 Metals	***1.00* LS**	**2,830**	**238,650**	**2,521,743**	**15,000**	**119,124**		**2,894,517.86 /LS**	**2,894,518**	**4,254,552.05 /LS**	**4,254,552**
					05.0 Metals	***1.00* LS**	**2,830**	**238,650**	**2,521,743**	**15,000**	**119,124**		**2,894,517.86 /LS**	**2,894,518**	**4,254,552.05 /LS**	**4,254,552**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.10.00	Process Electrical, Lightning Protection											
					Lghting - interior/exterior	1.00 LS	35	3,651	5,000	40,000	-	-	48,651.10 /LS	48,651	64,135.60 /LS	64,136
					Instrumentation connections	1.00 LS	35	3,651	5,000	20,000	-	-	28,651.10 /LS	28,651	38,986.02 /LS	38,986
					Elec Distribution and Fac Circuits	1.00 LS	35	3,651	5,000	50,000	-	-	58,651.10 /LS	58,651	76,710.41 /LS	76,710
					Receptacles	1.00 LS	35	3,651	5,000	10,000	-	-	18,651.10 /LS	18,651	26,411.20 /LS	26,411
					Grounding/LPS	1.00 LS	35	3,651	5,000	25,000	-	-	33,651.10 /LS	33,651	45,273.42 /LS	45,273
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,516.65 /LS**	**251,517**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,516.65 /LS**	**251,517**
					26.20 Facility Electrical	***1.00*** **LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,516.65 /LS**	**251,517**
					26.0 Electrical Work	***1.00*** **LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,516.65 /LS**	**251,517**
	31.0				**Earthwork**											
		31.25			**Earthworks, Structural**											
			31.00.000		**Structural Earthworks**											
				31.16.01.00	**Earthworks, Sheeting and Shoring**											
					Sheeting and Shoring	10,500.00 SF		0	0	472,500	0	0	45.00 /SF	472,500	56.59 /SF	594,159
					31.16.01.00 Earthworks, Sheeting and Shoring	**10,500.00 SF**				**472,500**			**45.00 /SF**	**472,500**	**56.59 /SF**	**594,159**
				31.19.03.20	**Removal and Control of Water**											
					Removal and Control of Water Allowance	6.00 MO				270,000	-	-	45,000.00 /MO	270,000	56,586.60 /MO	339,520
					31.19.03.20 Removal and Control of Water	**6.00 MO**				**270,000**			**45,000.00 /MO**	**270,000**	**56,586.60 /MO**	**339,520**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	40,000.00 CY	3,902	279,368	-	-	227,723	-	12.68 /CY	507,091	15.94 /CY	637,656
					Stockpile Excavated Spoils	40,000.00 cy	1,171	133,097		-	118,061	-	6.28 /cy	251,159	7.90 /cy	315,827
					31.25.01.00 Earthworks, Structural, Excavation	**40,000.00 CY**	**5,073**	**412,465**			**345,784**		**18.96 /CY**	**758,249**	**23.84 /CY**	**953,483**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	1,060.00 CY	231	22,439	47,170	-	1,413	-	67.00 /CY	71,022	87.48 /CY	92,728
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**1,060.00 CY**	**231**	**22,439**	**47,170**		**1,413**		**67.00 /CY**	**71,022**	**87.48 /CY**	**92,728**
				31.25.03.00	**Earthworks, Structural, Backfill**											
					Fill, from stockpile, 130 H.P., 2-1/2 C.Y., 300' haul, spread fill, with front-end loader, excludes compaction	17,000.00 CY	291	33,132	-	-	31,154	-	3.78 /CY	64,286	4.76 /CY	80,839
					Fill from Stockpile	17,000.00 cy	498	56,566		-	50,176	-	6.28 /cy	106,742	7.90 /cy	134,226
					31.25.03.00 Earthworks, Structural, Backfill	**17,000.00 CY**	**789**	**89,698**			**81,331**		**10.06 /CY**	**171,029**	**12.65 /CY**	**215,065**
				31.25.03.02	**Earthworks, Structural, Sand Fill**											
					Sand Fill, Includes Compaction	1,780.00 CY	119	12,926	62,300	-	6,212	-	45.75 /CY	81,438	60.07 /CY	106,923
					31.25.03.02 Earthworks, Structural, Sand Fill	**1,780.00 CY**	**119**	**12,926**	**62,300**		**6,212**		**45.75 /CY**	**81,438**	**60.07 /CY**	**106,923**
				31.25.03.10	**Earthworks, Structural, Compaction**											
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	17,000.00 CY	291	33,132	-	-	18,961	-	3.06 /CY	52,093	3.85 /CY	65,506
					Compaction, water for, 3000 gallon truck, 3 mile haul	17,000.00 cy	144	16,151	20,230	-	8,387	-	2.63 /cy	44,768	3.40 /cy	57,761
					31.25.03.10 Earthworks, Structural, Compaction	**17,000.00 CY**	**435**	**49,283**	**20,230**		**27,348**		**5.70 /CY**	**96,861**	**7.25 /CY**	**123,267**
					31.00.000 Structural Earthworks	**76,840.00 CY**	**6,648**	**586,811**	**129,700**	**742,500**	**462,087**		**25.00 /CY**	**1,921,098**	**31.56 /CY**	**2,425,146**
					31.25 Earthworks, Structural	**76,840.00 CY**	**6,648**	**586,811**	**129,700**	**742,500**	**462,087**		**25.00 /CY**	**1,921,098**	**31.56 /CY**	**2,425,146**
					31.0 Earthwork	***1.00*** **LS**	**6,648**	**586,811**	**129,700**	**742,500**	**462,087**		**1,921,098.13 /LS**	**1,921,098**	**2,425,145.51 /LS**	**2,425,146**
	34.0				**Transportation**											
		34.00			**Transportation**											
			05.00.202		**Vehicle Guard Rail**											
				32.50.02.00	**Site Improvements, Guard Rails**											
					Vehicle guide rails, corrugated steel, galvanized steel posts, steel posts 6'-3" O.C, 6" x 8" posts	335.00 LF	13	1,286	10,553	-	219	-	35.99 /LF	12,058	47.54 /LF	15,927
					Vehicle guide rails, corrugated steel, galvanized steel posts, install wrap around end section	2.00 ea	1	131	126	-	22	-	139.39 /ea	279	179.85 /ea	360
					32.50.02.00 Site Improvements, Guard Rails	**335.00 LF**	**14**	**1,417**	**10,679**		**241**		**36.83 /LF**	**12,337**	**48.62 /LF**	**16,287**
					05.00.202 Vehicle Guard Rail	**335.00 LF**	**14**	**1,417**	**10,679**		**241**		**36.83 /LF**	**12,337**	**48.62 /LF**	**16,287**
					34.00 Transportation	***1.00*** **LS**	**14**	**1,417**	**10,679**		**241**		**12,336.53 /LS**	**12,337**	**16,287.11 /LS**	**16,287**
					34.0 Transportation	***1.00*** **LS**	**14**	**1,417**	**10,679**		**241**		**12,336.53 /LS**	**12,337**	**16,287.11 /LS**	**16,287**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.200		**Piping and Appurtenances**											
				40.00.99.01	**Process Pipe, Other**											
					Triple Offset Ball Valve, Flgd, MTR OPER, 84"	4.00 ea	448	46,673	700,000	-	9,533	-	189,051.65 /ea	756,207	250,416.15 /ea	1,001,665
					Cone Valve, 84"	4.00 ea	448	46,673	360,000	-	9,533	-	104,051.65 /ea	416,207	137,367.86 /ea	549,471
					12" CARV With Swivel Outlet	4.00 ea	128	9,058	42,000	-	2,400	-	13,364.57 /ea	53,458	17,566.92 /ea	70,268
					Gasket and bolt set, for flanges, 84" pipe size	12.00 ea	192	22,170	39,000	-	-	-	5,097.54 /ea	61,170	6,645.67 /ea	79,748
					Flange, steel, forged steel, weld neck, 84" pipe size, includes 1 weld per joint and weld machine	12.00 ea	864	90,013	120,000	-	42,899	-	21,076.05 /ea	252,913	27,227.71 /ea	326,732
					Flex Coupling w/ Harness, 84" pipe size	4.00 ea	288	30,004	380,000	-	14,300	-	106,076.05 /ea	424,304	140,276.00 /ea	561,104
					8" RW Piping, Fittings, and Appurtenances	400.00 LF	540	44,701	88,000	-	6,300	-	347.50 /LF	139,001	452.93 /LF	181,171
					Piping, pipe, WSP, plain end, welded, 84" diameter, excludes excavation or backfill	160.00 LF	1,120	116,684	192,000	-	47,666	-	2,227.18 /LF	356,349	2,887.64 /LF	462,022
					Miscellaneous Items and Consumables Allowance	1.00 ls		28,750	57,500	-	28,750	-	115,000.00 /ls	115,000	148,778.94 /ls	148,779
					40.00.99.01 Process Pipe, Other	***1.00*** **LS**	**4,028**	**434,728**	**1,978,500**		**161,381**		**2,574,609.30 /LS**	**2,574,609**	**3,380,960.66 /LS**	**3,380,961**
					40.00.200 Piping and Appurtenances	***1.00*** **LS**	**4,028**	**434,728**	**1,978,500**		**161,381**		**2,574,609.30 /LS**	**2,574,609**	**3,380,960.66 /LS**	**3,380,961**
					40.11 Process Pipe, Carbon Steel	**560.00 LF**	**4,028**	**434,728**	**1,978,500**		**161,381**		**4,597.52 /LF**	**2,574,609**	**6,037.43 /LF**	**3,380,961**
					40.0 Process Pipe	**560.00 LF**	**4,028**	**434,728**	**1,978,500**		**161,381**		**4,597.52 /LF**	**2,574,609**	**6,037.43 /LF**	**3,380,961**
					2175 Funks PGP Emergency Dissipation Structure	***1.00*** **LS**	**67,828**	**6,944,080**	**8,443,830**	**1,152,276**	**784,366**		**17,324,550.75 /LS**	**17,324,551**	**24,789,102.69 /LS**	**24,789,103**
2180					**Funks PGP Fire Water Tank**											
	03.0				**Concrete Work**											
		03.13			**Cast-In-Place Concrete, Continuous Footings**											
			MOA-03.00.002		**3'-0" wide, 30" thick Curved Continuous Footing**											
				03.10.02.30	**Cast-In-Place Concrete, Continuous Footings, 30" thick**											
					Fine grade, for slab on grade, by hand	696.00 sf	5	440	21	-	-	-	0.66 /sf	461	0.97 /sf	674
					Fill, gravel subbase, under building slab on grade	12.89 cy	6	583	361	-	-	-	73.19 /cy	943	108.71 /cy	1,401
					Concrete pumping, subcontract, all inclusive price	65.00 cy		-	-	1,625	-	-	25.00 /cy	1,625	36.44 /cy	2,368
					Forms in place, continuous footing, sides	1,160.00 sf	116	12,568	1,160	-	-	-	11.83 /sf	13,728	17.32 /sf	20,092
					Concrete, ready mix, 4500 psi	65.00 CY		-	14,300	-	-	-	220.00 /CY	14,300	336.60 /CY	21,879

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.02.30	Cast-In-Place Concrete, Continuous Footings, 30" thick											
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.60 /cy	673
					Placing concrete, concrete pump	65.00 cy	95	8,565	-	-	-	-	131.77 /cy	8,565	192.05 /cy	12,483
					Finishing footings, screed finish	696.00 sf	10	954	-	-	-	-	1.37 /sf	954	2.00 /sf	1,390
					Curing, membrane spray	696.00 sf	1	126	28	-	-	-	0.22 /sf	154	0.32 /sf	226
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.75 ton	92	10,764	8,625	-	-	-	3,372.03 /ton	19,389	5,023.42 /ton	28,885
					Reinforcing in place, unloading & sorting, add to above - slabs	5.75 ton	3	384	-	-	133	-	89.94 /ton	517	131.09 /ton	754
					03.10.02.30 Cast-In-Place Concrete, Continuous Footings, 30" thick	65.00 CY	329	34,383	24,935	1,625	133		939.63 /CY	61,076	1,397.30 /CY	90,824
					MOA-03.00.002 3'-0" wide, 30" thick Curved Continuous Footing	**65.00 CY**	**329**	**34,383**	**24,935**	**1,625**	**133**		**939.63 /CY**	**61,076**	**1,397.30 /CY**	**90,824**
					03.13 Cast-In-Place Concrete, Continuous Footings	65.00 CY	329	34,383	24,935	1,625	133		939.63 /CY	61,076	1,397.30 /CY	90,824
					03.0 Concrete Work	65.00 CY	329	34,383	24,935	1,625	133		939.63 /CY	61,076	1,397.30 /CY	90,824
	26.0				Electrical Work											
		26.20			Facility Electrical											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	Process Electrical, Lightning Protection											
					Grounding/LPS	1.00 LS	35	3,651	5,000	25,000	-	-	33,651.10 /LS	33,651	45,273.40 /LS	45,273
					26.15.10.00 Process Electrical, Lightning Protection	*1.00* LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,273.40 /LS	45,273
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**35**	**3,651**	**5,000**	**25,000**			**33,651.10 /LS**	**33,651**	**45,273.40 /LS**	**45,273**
					26.20 Facility Electrical	*1.00* LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,273.40 /LS	45,273
					26.0 Electrical Work	*1.00* LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,273.40 /LS	45,273
	31.0				Earthwork											
		31.25			Earthworks, Structural											
			31.25.00.0010		**Structural Earthworks**											
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	82.00 CY	7	709	-	-	150	-	10.47 /CY	858	13.16 /CY	1,079
					31.25.01.00 Earthworks, Structural, Excavation	82.00 CY	7	709			150		10.47 /CY	858	13.16 /CY	1,079
				31.25.03.00	Earthworks, Structural, Backfill											
					3" Oil Sand Layer	17.00 CY	32	3,259	765	-	283	-	253.33 /CY	4,307	321.82 /CY	5,471
					Prepare Subgrade	389.00 sf	24	2,444	0	-	283	-	7.01 /sf	2,727	8.82 /sf	3,429
					Compaction, 4 passes, 18" wide, 12" lifts, walk behind, vibrating plate	389.00 cy	11	1,011	-	-	207	-	3.13 /cy	1,218	3.94 /cy	1,532
					31.25.03.00 Earthworks, Structural, Backfill	17.00 CY	67	6,714	765		773		485.42 /CY	8,252	613.66 /CY	10,432
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling and disposal, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	82.00 CY	8	834	820	-	766	-	29.52 /CY	2,420	37.84 /CY	3,103
					Load excavated spoils	82.00 cy	1	117		-	103	-	2.68 /cy	220	3.37 /cy	277
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	82.00 CY	9	951	820		870		32.20 /CY	2,640	41.22 /CY	3,380
					31.25.00.0010 Structural Earthworks	***1.00*** **LS**	**83**	**8,374**	**1,585**		**1,792**		**11,750.60 /LS**	**11,751**	**14,891.06 /LS**	**14,891**
					31.25 Earthworks, Structural	181.00 CY	83	8,374	1,585		1,792		64.92 /CY	11,751	82.27 /CY	14,891
					31.0 Earthwork	*1.00* LS	83	8,374	1,585		1,792		11,750.60 /LS	11,751	14,891.06 /LS	14,891
	33.0				Utilities											
		33.90			Tanks											
			MOA-33.30.001		**50" Dia Aboveground Tank**											
				44.05.76.02	Horizontal Bulk Chemical Storage Tank: >5000 gal											
					Aboveground water utility storage tanks, steel, ground level, ht./diam. less than 1, 750,000 gallons, excl. foundation	1.00 EA		-	-	900,000	-		900,000.00 /EA	900,000	1,131,731.89 /EA	1,131,732
					44.05.76.02 Horizontal Bulk Chemical Storage Tank: >5000 gal	1.00 EA				900,000			900,000.00 /EA	900,000	1,131,731.89 /EA	1,131,732
					MOA-33.30.001 50" Dia Aboveground Tank	**1.00 EA**				**900,000**			**900,000.00 /EA**	**900,000**	**1,131,731.89 /EA**	**1,131,732**
					33.90 Tanks	1.00 EA				900,000			900,000.00 /EA	900,000	1,131,731.89 /EA	1,131,732
					33.0 Utilities	*1.00* LF				900,000			900,000.00 /LF	900,000	1,131,731.89 /LF	1,131,732
					2180 Funks PGP Fire Water Tank	***1.00*** **LS**	**447**	**46,408**	**31,520**	**926,625**	**1,925**		**1,006,477.42 /LS**	**1,006,477**	**1,282,720.75 /LS**	**1,282,721**
2181					**Funks PGP Fire Water Pumping Plant**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.008		**12" thick Slab on Grade**											
				03.10.05.12	Cast-In-Place Concrete, Slab on Grade, 12" thick											
					Fine grade, for slab on grade, by hand	239.00 sf	2	151	7	-	-	-	0.66 /sf	158	0.97 /sf	231
					Fill, gravel subbase, under building slab on grade	5.90 cy	3	267	165	-	-	-	73.19 /cy	432	108.71 /cy	641
					Concrete pumping, subcontract, all inclusive price	9.00 cy		-	-	225	-	-	25.00 /cy	225	36.44 /cy	328
					Base slab sump forms	128.00 sf	32	3,467	160	-	-	-	28.34 /sf	3,627	41.39 /sf	5,298
					Slab on grade edge forms, 7" to 12"	68.00 sf	12	1,326	68	-	-	-	20.50 /sf	1,394	29.95 /sf	2,037
					Concrete, ready mix, 4500 psi	9.00 CY		-	1,980	-	-	-	220.00 /CY	1,980	336.60 /CY	3,029
					Add for concrete waste, 4500 psi	0.50 cy		-	110	-	-	-	220.00 /cy	110	336.58 /cy	168
					Placing concrete, concrete pump	9.00 cy	13	1,186	-	-	-	-	131.76 /cy	1,186	192.04 /cy	1,728
					Finishing floors, monolithic, trowel finish (machine)	239.00 sf	5	437	5	-	-	-	1.85 /sf	441	2.69 /sf	644
					Curing, membrane spray	239.00 sf	0	43	10	-	-	-	0.22 /sf	53	0.32 /sf	78
					Polyethelene vapor barrier, 10 mil thick	2.39 sq	1	57	25	-	-	-	34.30 /sq	82	50.77 /sq	121
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	0.80 ton	13	1,498	1,200	-	-	-	3,372.04 /ton	2,698	5,023.41 /ton	4,019
					Reinforcing in place, unloading & sorting, add to above - slabs	0.80 ton	0	53	-	-	19	-	89.94 /ton	72	131.08 /ton	105
					03.10.05.12 Cast-In-Place Concrete, Slab on Grade, 12" thick	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,047.50 /CY	18,428
					MOA-03.20.008 12" thick Slab on Grade	**9.00 CY**	**81**	**8,484**	**3,730**	**225**	**19**		**1,384.21 /CY**	**12,458**	**2,047.50 /CY**	**18,428**
					03.18 Cast-In-Place Concrete, Slabs on Grade	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,047.50 /CY	18,428
					03.0 Concrete Work	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,047.50 /CY	18,428
	13.0				Buildings Complete											
		13.01			Buildings Complete											
			MOA-13.01.001		**Preengineered Metal Building; 20' Eave Height**											
				13.00.01.00	Metal Building Systems - Pre-Engineered											
					Pre-engnrd bldg, rigid frame, 20' wide, 14' eave ht	168.00 SF		-	-	3,192	-	-	19.00 /SF	3,192	23.89 /SF	4,014
					Pre-engnrd eave overhang, 2' w/ soffit	2.00 lf		-	-	60	-	-	30.00 /lf	60	37.72 /lf	75
					Pre-engnrd entrance canopy, 4' x 4'	1.00 ea		-	-	350	-	-	350.00 /ea	350	440.13 /ea	440

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				13.00.01.00	Metal Building Systems - Pre-Engineered											
					Pre-engnrd H.M. door, 3' x 7', average	1.00 ea		-	-	500	-	-	500.00 /ea	500	628.74 /ea	629
					Pre-engnrd H.M. double door, 6' x 7' opening	1.00 pr		-	-	1,000	-	-	1,000.00 /pr	1,000	1,257.48 /pr	1,257
					Pre-engnrd door frame (only), for openings 3' x 7'	1.00 ea		-	-	300	-	-	300.00 /ea	300	377.24 /ea	377
					Pre-engnrd flashings (corner, eave, rake, and ridge)	68.00 lf		-	-	476	-	-	7.00 /lf	476	8.80 /lf	599
					Pre-engnrd inulation, 4" thick, R-13	1,200.00 sf		-	-	960	-	-	0.80 /sf	960	1.01 /sf	1,207
					Pre-engnrd windows, 6' x 4'	4.00 ea		-	-	2,500	-	-	625.00 /ea	2,500	785.93 /ea	3,144
					Pre-engnrd skylightes, fiberglass panels	50.00 sf		-	-	550	-	-	11.00 /sf	550	13.83 /sf	692
					Pre-engnrd roof vents, 20" dia. w/ birdscreen	2.00 ea		-	-	650	-	-	325.00 /ea	650	408.69 /ea	817
					Pre-engnrd continuous roof vent, 10' long x 12" wide	68.00 ea		-	-	18,700	-	-	275.00 /ea	18,700	345.81 /ea	23,515
					13.00.01.00 Metal Building Systems - Pre-Engineered	**168.00 SF**				**29,238**			**174.04 /SF**	**29,238**	**218.85 /SF**	**36,766**
					MOA-13.01.001 Preengineered Metal Building; 20' Eave Height	***1.00* LS**				**29,238**			**29,238.00 /LS**	**29,238**	**36,766.20 /LS**	**36,766**
					13.01 Buildings Complete	**168.00 SF**				**29,238**			**174.04 /SF**	**29,238**	**218.85 /SF**	**36,766**
					13.0 Buildings Complete	***1.00* LS**				**29,238**			**29,238.00 /LS**	**29,238**	**36,766.20 /LS**	**36,766**
	21.0				**Fire Suppression**											
		21.00			**Fire Sprinkler**											
			44.40.320		**Electric Fire Pump**											
				44.05.40.26	**Electric Fire Pump**											
					Furnish and Install Fire Water Pump Allowance	1.00 EA	48	5,431	50,000	-	560	-	55,990.67 /EA	55,991	88,029.82 /EA	88,030
					Process Piping, Fittings, and Valving Allowance	1.00 ls	48	5,431	20,000	-	1,040	-	26,470.67 /ls	26,471	41,354.00 /ls	41,354
					44.05.40.26 Electric Fire Pump	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**129,383.82 /EA**	**129,384**
					44.40.320 Electric Fire Pump	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**129,383.82 /EA**	**129,384**
					21.00 Fire Sprinkler	***1.00* LS**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /LS**	**82,461**	**129,383.82 /LS**	**129,384**
					21.0 Fire Suppression	***1.00* LS**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /LS**	**82,461**	**129,383.82 /LS**	**129,384**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Elec Distribution and Pump/FCP Circuits	1.00 LS	35	3,651	5,000	200,000	-	-	208,651.10 /LS	208,651	265,332.38 /LS	265,332
					26.15.10.00 Process Electrical, Lightning Protection	***1.00* LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,332.38 /LS**	**265,332**
					26.90.LPS Facility Lightning Protection System	***1.00* LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,332.38 /LS**	**265,332**
					26.20 Facility Electrical	***1.00* LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,332.38 /LS**	**265,332**
					26.0 Electrical Work	***1.00* LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,332.38 /LS**	**265,332**
					2181 Funks PGP Fire Water Pumping Plant	***1.00* LS**	**212**	**22,997**	**78,730**	**229,463**	**1,619**		**332,808.31 /LS**	**332,808**	**449,909.92 /LS**	**449,910**
2185					**Funks PGP Surge Control System**											
	03.0				**Concrete Work**											
		03.12			**Cast-In-Place Concrete, Pad Footings**											
			MOA-03.00.003		**17'-0" x 16'-0" x 2'-0" thick Spread Footing**											
				03.10.01.24A	**Cast-In-Place Concrete, Spread Footings, 24" thick**											
					Fine grade, for slab on grade, by hand	4,352.00 sf	30	2,754	131	-	-	-	0.66 /sf	2,884	0.97 /sf	4,213
					Fill, gravel subbase, under building slab on grade	161.19 cy	81	7,285	4,513	-	-	-	73.19 /cy	11,798	108.71 /cy	17,522
					Concrete pumping, subcontract, all inclusive price	323.00 cy		-	-	8,075	-	-	25.00 /cy	8,075	36.44 /cy	11,769
					Forms in place, column footings	2,112.00 sf	422	45,763	2,112	-	-	-	22.67 /sf	47,875	33.11 /sf	69,930
					Concrete, ready mix, 4500 psi	323.00 CY		-	71,060	-	-	-	220.00 /CY	71,060	336.60 /CY	108,720
					Add for concrete waste, 4500 psi	10.00 cy		-	2,200	-	-	-	220.00 /cy	2,200	336.60 /cy	3,366
					Placing concrete, concrete pump	323.00 cy	471	42,561	-	-	-	-	131.77 /cy	42,561	192.05 /cy	62,031
					Finishing footings, screed finish	4,352.00 sf	65	5,963	-	-	-	-	1.37 /sf	5,963	2.00 /sf	8,691
					Curing, membrane spray	4,352.00 sf	9	787	174	-	-	-	0.22 /sf	961	0.32 /sf	1,413
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	28.50 ton	456	53,353	42,750	-	-	-	3,372.03 /ton	96,103	5,023.42 /ton	143,167
					Reinforcing in place, unloading & sorting, add to above - slabs	28.50 ton	16	1,903	-	-	661	-	89.94 /ton	2,563	131.09 /ton	3,736
					03.10.01.24A Cast-In-Place Concrete, Spread Footings, 24" thick	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,345.39 /CY**	**434,560**
					MOA-03.00.003 17'-0" x 16'-0" x 2'-0" thick Spread Footing	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,345.39 /CY**	**434,560**
					03.12 Cast-In-Place Concrete, Pad Footings	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,345.39 /CY**	**434,560**
		03.60			**Concrete Miscellaneous**											
			MOA-03.00.004		**14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports**											
				03.10.03.36	**Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide**											
					Fine grade, for slab on grade, by hand	560.00 sf	4	354	17	-	-	-	0.66 /sf	371	0.97 /sf	542
					Concrete pumping, subcontract, all inclusive price	63.00 cy		-	-	1,575	-	-	25.00 /cy	1,575	36.44 /cy	2,296
					Edge forms, housekeeping pads >6" Deep	1,584.00 sf	396	42,903	2,376	-	-	-	28.59 /sf	45,279	41.77 /sf	66,166
					Concrete, ready mix, 4500 psi	63.00 CY		-	13,860	-	-	-	220.00 /CY	13,860	336.60 /CY	21,206
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.59 /cy	673
					Placing concrete, concrete pump	63.00 cy	92	8,301	-	-	-	-	131.77 /cy	8,301	192.05 /cy	12,099
					Finish housekeeping pads	560.00 sf	22	2,046	17	-	-	-	3.68 /sf	2,063	5.37 /sf	3,008
					Curing, membrane spray	560.00 sf	1	101	22	-	-	-	0.22 /sf	124	0.32 /sf	182
					Polyethelene vapor barrier, 6 mil thick	5.60 sq	1	133	20	-	-	-	27.33 /sq	153	40.10 /sq	225
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.75 ton	92	10,764	8,625	-	-	-	3,372.03 /ton	19,389	5,023.42 /ton	28,885
					Reinforcing in place, unloading & sorting, add to above - slabs	5.75 ton	3	384	-	-	133	-	89.94 /ton	517	131.09 /ton	754
					03.10.03.36 Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide	**63.00 CY**	**612**	**64,987**	**25,377**	**1,575**	**133**		**1,461.47 /CY**	**92,072**	**2,159.26 /CY**	**136,034**
					MOA-03.00.004 14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports	**63.00 CY**	**612**	**64,987**	**25,377**	**1,575**	**133**		**1,461.47 /CY**	**92,072**	**2,159.26 /CY**	**136,034**
					03.60 Concrete Miscellaneous	***1.00* LS**	**612**	**64,987**	**25,377**	**1,575**	**133**		**92,072.42 /LS**	**92,072**	**136,033.55 /LS**	**136,034**
					03.0 Concrete Work	**386.00 CY**	**2,162**	**225,354**	**148,317**	**9,650**	**794**		**995.12 /CY**	**384,115**	**1,478.22 /CY**	**570,593**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Elec Distribution and FP Circuits	1.00 LS	35	3,651	5,000	75,000	-	-	83,651.10 /LS	83,651	108,147.42 /LS	108,147
					26.15.10.00 Process Electrical, Lightning Protection	***1.00* LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,147.42 /LS**	**108,147**
					26.90.LPS Facility Lightning Protection System	***1.00* LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,147.42 /LS**	**108,147**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.20 Facility Electrical	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,147.42 /LS**	**108,147**
					26.0 Electrical Work	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,147.42 /LS**	**108,147**
	43.0				**Process Equipment**											
		43.22			**Process Equipment - Expansion Tanks**											
			40.00.320		**Surge Tanks and Connections**											
				43.05.36.00	**Expansion Tanks**											
					Surge Tanks and Piping Connections	8.00 EA	896	93,347	520,000	-	38,133	-	81,434.95 /EA	651,480	107,115.30 /EA	856,922
					43.05.36.00 Expansion Tanks	**8.00 EA**	**896**	**93,347**	**520,000**		**38,133**		**81,434.95 /EA**	**651,480**	**107,115.30 /EA**	**856,922**
					40.00.320 Surge Tanks and Connections	**8.00 EA**	**896**	**93,347**	**520,000**		**38,133**		**81,434.95 /EA**	**651,480**	**107,115.30 /EA**	**856,922**
					43.22 Process Equipment - Expansion Tanks	**8.00 EA**	**896**	**93,347**	**520,000**		**38,133**		**81,434.95 /EA**	**651,480**	**107,115.30 /EA**	**856,922**
					43.0 Process Equipment	***1.00*** **LS**	**896**	**93,347**	**520,000**		**38,133**		**651,479.56 /LS**	**651,480**	**856,922.42 /LS**	**856,922**
					2185 Funks PGP Surge Control System	***1.00*** **LS**	**3,093**	**322,352**	**673,317**	**84,650**	**38,927**		**1,119,246.05 /LS**	**1,119,246**	**1,535,663.29 /LS**	**1,535,663**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	54,271,432		506,625.100	
Material	62,130,352			
Subcontractor	10,836,758			
Equipment	7,648,148		148,946.193	
Other				
Subtotal Direct Costs	**134,886,690**	**134,886,690**		
Material Sales Tax, Dunnigan Ca	4,504,451			7.250 %
Subtotal W/ Sales Tax	**4,504,451**	**139,391,141**		
Concrete Work OH&P	8,202,137			20.000 %
Architectural (Div 6-12) OH&P	1,313,144			15.000 %
Mechanical Work OH&P	44,762			25.000 %
Electrical Work OH&P	6,179,888			30.000 %
Instruments & Controls OH&P	60,216			30.000 %
Subtotal w/ Sub Markup	**15,800,147**	**155,191,288**		
Mobilization/Demobilization	4,655,739			3.000 %
Prime Contractor Home OfficeOH	15,519,129			10.000 %
Prime Contractor Profit	10,521,969			6.000 %
Bonds & Insurance	4,033,772			2.170 %
Subtotal w/ Prime Markups	**34,730,609**	**189,921,897**		
OFCI Equip. - Vertical Turbine Pumps	10,043,094			
OFCI Equip. - Hydropower Generators	11,470,000			
Contractor MU on OFCI Equip	1,290,786			6.000 %
Freight Allowance	1,075,655			5.000 %
Subtotal w/ OFCI Equipment	**23,879,535**	**213,801,432**		
Contractor Contingency	6,414,043			3.000 %
Design Contingency	38,484,258			18.000 %
Subtotal w/ Contingency	**44,898,301**	**258,699,733**		
Opinion of Probable Construction Costs		**258,699,733**		

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Appendix F
Package 3
Funks Reservoir Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2100	**General Conditions**	***1.00*** **LS**	**6,370,239.76 /LS**	**6,370,240**
2115	**Funks Reservoir**	***1.00*** **LS**	**20,636,582.98 /LS**	**20,636,583**
2120	**Funks Reservoir, Construct PGP Cofferdam**	***1.00*** **LS**	**5,968,801.58 /LS**	**5,968,802**
2130	**Funks Reservoir, Funks PGP Approach Channels**	***1.00*** **LS**	**8,092,833.61 /LS**	**8,092,834**
2140	**Funks Reservoir, Sediment Impoundment**	***1.00*** **LS**	**3,801,612.82 /LS**	**3,801,613**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	20,050,858		142,307.576	
Material	8,106,731			
Subcontractor	153,578			
Equipment	16,558,903		197,983.076	
Other				
Subtotal w/ Prime Markups	**44,870,070**	**44,870,070**		
Design Contingency	7,841,372			18.000 %
Opinion of Probable Constrctuion Costs	**7,841,372**	**52,711,442**		
Total		***52,711,442***		

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Work Activity Summary Report

Project Name: Funks Reservoir
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2100				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.00.204	Funks Reservoir, Dewatering/Erosion Controls/Dust Abatement	18.00 MO	74,792.73 /MO	1,346,269
			01.I5.000	General Conditions, Other	1.00 LS	9,756.91 /LS	9,757
			01.I5.005	GC Labor	1.00 LS	1,921,052.99 /LS	1,921,053
			01.I5.010	Jobsite Office	1.00 LS	564,445.62 /LS	564,446
			01.I5.011	Temporary Facilities	1.00 LS	540,043.39 /LS	540,043
			01.I5.012	Temporary Services	1.00 LS	173,824.69 /LS	173,825
			01.I5.013	Travel	1.00 LS	519,662.42 /LS	519,662
			01.I5.014	Site Cleanup	1.00 LS	170,264.85 /LS	170,265
			01.I5.014A	Site Safety	1.00 LS	76,754.31 /LS	76,754
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	170,035.97 /LS	170,036
			01.I5.020	GC Indirect Services & Support	1.00 LS	252,109.72 /LS	252,110
			01.I6.000	Quality Control	1.00 LS	440,748.77 /LS	440,749
				01.01 Construction Operations	18.00 MO	343,609.37 /MO	6,184,969
				01.0 General Requirements	18.00 MO	343,609.37 /MO	6,184,969
				2100 General Conditions	1.00 LS	6,184,968.70 /LS	6,184,969
2115				**Funks Reservoir**			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.107	Funks Reservoir, Prepare Access/Haul Roads and Stockpile Areas	184,000.00 CY	13.22 /CY	2,431,710
			31.00.108	Funks Reservoir, Sediment Removal	440,000.00 CY	22.63 /CY	9,955,439
			31.00.110	Funks Reservoir, Reservoir Excavation	660,000.00 CY	11.57 /CY	7,639,021
				31.20 Earthworks, Site	1,284,000.00 CY	15.60 /CY	20,026,170
				31.0 Earthwork	1,284,000.00 CY	15.60 /CY	20,026,170
				2115 Funks Reservoir	1.00 LS	20,026,170.13 /LS	20,026,170
2120				**Funks Reservoir, Construct PGP Cofferdam**			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.114	Funks Reservoir, Construct PGP Cofferdam	106,665.00 CY	50.98 /CY	5,437,380
			31.00.118	Funks Reservoir, Remove PGP Cofferdam	29,920.00 CY	12.00 /CY	358,995
				31.20 Earthworks, Site	136,585.00 CY	42.44 /CY	5,796,375
				31.0 Earthwork	136,585.00 CY	42.44 /CY	5,796,375
				2120 Funks Reservoir, Construct PGP Cofferdam	1.00 LS	5,796,375.00 /LS	5,796,375
2130				**Funks Reservoir, Funks PGP Approach Channels**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.10.05.0030	Slab on Grade, 30" Thick	649.00 CY	924.95 /CY	600,294
			03.10.05.0036	Slab on Grade, 36" Thick	1,712.00 CY	903.28 /CY	1,546,412
				03.18 Cast-In-Place Concrete, Slabs on Grade	2,361.00 CY	909.24 /CY	2,146,706
				03.0 Concrete Work	2,361.00 CY	909.24 /CY	2,146,706
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.120	Funks Reservoir, Funks PGP Approach Channels	81,400.00 CY	35.73 /CY	2,908,400
				31.20 Earthworks, Site	81,400.00 CY	35.73 /CY	2,908,400
		31.30		Site Specialties			
			31.23.120	Waterway Bank Protection, Rip Rap	10,412.00 SY	269.94 /SY	2,810,606
				31.30 Site Specialties	1.00 LS	2,810,605.84 /LS	2,810,606
				31.0 Earthwork	81,400.00 CY	70.26 /CY	5,719,005
				2130 Funks Reservoir, Funks PGP Approach Channels	1.00 LS	7,865,711.10 /LS	7,865,711
2140				**Funks Reservoir, Sediment Impoundment**			
	05.0			Metals			
		05.50		Metal Fabrications			
			05.00.99.0010	Metals, Riser Weir and Aluminum Walkway	1.00 LS	102,769.65 /LS	102,770
				05.50 Metal Fabrications	1.00 LS	102,769.65 /LS	102,770
				05.0 Metals	1.00 LS	102,769.65 /LS	102,770
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.00.122	Funks Reservoir, Sediment Impoundment	1.00 LS	2,214,509.77 /LS	2,214,510
				31.20 Earthworks, Site	81,000.00 CY	27.34 /CY	2,214,510
		31.30		Site Specialties			
			31.23.120	Waterway Bank Protection, Rip Rap	2,030.00 SY	269.94 /SY	547,987
				31.30 Site Specialties	1.00 LS	547,986.53 /LS	547,987
				31.0 Earthwork	81,000.00 CY	34.10 /CY	2,762,496
	33.0			Utilities			
		33.07		Buried Process Pipe, HDPE			
			33.00.09.DP16	16-Inch Dia HDPE Dredge Pipeline	3,500.00 LF	112.00 /LF	391,987
			33.00.09.DP24	24-Inch Dia HDPE Dredge Pipeline	1,900.00 LF	124.13 /LF	235,850
				33.07 Buried Process Pipe, HDPE	5,400.00 LF	116.27 /LF	627,838
				33.0 Utilities	5,400.00 LF	116.27 /LF	627,838
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.05.53.0010	600 HP High Head Booster Pump	1.00 EA	196,846.98 /EA	196,847
				44.40 Process Equipment - Pumps	1.00 EA	196,846.98 /EA	196,847
				44.0 Pollution and Waste Control Equipment	1.00 EA	196,846.98 /EA	196,847

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				2140 Funks Reservoir, Sediment Impoundment	***1.00*** **LS**	**3,689,950.56 /LS**	**3,689,951**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	19,460,619		142,307.576	
Material	7,884,680			
Subcontractor	149,032			
Equipment	16,068,845		197,983.076	
Other				
Subtotal w/ Prime Markups	**43,563,176**	**43,563,176**		
Contractor Contingency	1,306,895			3.000 %
Design Contingency	7,841,372			18.000 %
Opinion of Probable Constrctuion Costs	**9,148,267**	**52,711,443**		
Total		***52,711,443***		

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Detail Report
Project Name: Funks Reservoir
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/18/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
2100					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.00.204		**Funks Reservoir, Dewatering/Erosion Controls/Dust Abatement**											
				01.01.05.00	General Conditions, Other											
					Funks Reservoir, Dewatering/Erosion Controls/Dust Abatement Allowance	18.00 MO		*270,000*	*270,000*	-	*540,000*	-	60,000.00 /MO	1,080,000	74,792.73 /MO	1,346,269
					01.01.05.00 General Conditions, Other	18.00 MO		270,000	270,000		540,000		60,000.00 /MO	1,080,000	74,792.73 /MO	1,346,269
					01.00.204 Funks Reservoir, Dewatering/Erosion Controls/Dust Abatement	**18.00 MO**		**270,000**	**270,000**		**540,000**		**60,000.00 /MO**	**1,080,000**	**74,792.73 /MO**	**1,346,269**
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	97.57 /ea	9,757
					01.01.05.00 General Conditions, Other	*18.00* MO			7,500				416.67 /MO	7,500	542.05 /MO	9,757
					01.I5.000 General Conditions, Other	***1.00*** **LS**			**7,500**				**7,500.00 /LS**	**7,500**	**9,756.91 /LS**	**9,757**
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Manager	9.00 MO	1,440	224,640	-	-	-	-	24,960.00 /MO	224,640	30,661.37 /MO	275,952
					Superintendent	18.00 mo	2,880	345,600	-	-	-	-	19,200.00 /mo	345,600	23,585.67 /mo	424,542
					Field Engineer (2)	18.00 mo	2,880	273,600	-	-	-	-	15,200.00 /mo	273,600	18,671.99 /mo	336,096
					Admin Asst.	18.00 mo	2,880	187,200	-	-	-	-	10,400.00 /mo	187,200	12,775.57 /mo	229,960
					Safety Manager	9.00 mo	1,440	216,000	-	-	-	-	24,000.00 /mo	216,000	29,482.09 /mo	265,339
					Site Skilled Labor (2)	18.00 mo	2,880	316,800	-	-	-	-	17,600.00 /mo	316,800	21,620.20 /mo	389,164
					01.01.06.01 GC Labor	9.00 MO	14,400	1,563,840					173,760.00 /MO	1,563,840	213,450.33 /MO	1,921,053
					01.I5.005 GC Labor	***1.00*** **LS**	**14,400**	**1,563,840**					**1,563,840.00 /LS**	**1,563,840**	**1,921,052.99 /LS**	**1,921,053**
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,902.76 /ea	3,903
					Telephone/fax monthly cost	18.00 mo		-	9,000	-	-	-	500.00 /mo	9,000	650.46 /mo	11,708
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,009.20 /ea	13,009
					High Speed Connection - Consumption	18.00 mo		-	9,000	-	-	-	500.00 /mo	9,000	650.46 /mo	11,708
					Mobile Phone	18.00 mo		-	0	-	17,100	-	950.00 /mo	17,100	1,167.00 /mo	21,006
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	7,940.58 /ea	7,941
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	15,881.11 /ea	15,881
					Field Office Set-up	1.00 ea	180	19,392	-		10,800	-	30,192.12 /ea	30,192	37,088.61 /ea	37,089
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	7,940.57 /ea	7,941
					Field Office Trailer Rent (60 x 12) (3)	36.00 mo		-	63,000	-	-	-	1,750.00 /mo	63,000	2,276.61 /mo	81,958
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,008.21 /ea	2,016
					Office Furniture - Rental	36.00 mo		-	27,000	-	-	-	750.00 /mo	27,000	975.69 /mo	35,125
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,300.91 /ea	1,301
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	71,550.62 /ea	71,551
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,513.82 /ea	19,514
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	84,559.81 /ea	84,560
					Water Cooler Services	18.00 mo		-	2,610	-	-	-	145.00 /mo	2,610	188.63 /mo	3,395
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,513.81 /ea	19,514
					Printing & Reproduction	18.00 mo		-	31,050	-	-	-	1,725.00 /mo	31,050	2,244.09 /mo	40,394
					Postage & Courier	18.00 mo		-	6,300	-	-	-	350.00 /mo	6,300	455.32 /mo	8,196
					Misc. Supplies	18.00 mo		-	51,300	-	-	-	2,850.00 /mo	51,300	3,707.62 /mo	66,737
					01.01.06.00 Project Office	***1.00*** LS	420	45,248	364,810		27,900		437,958.28 /LS	437,958	564,445.62 /LS	564,446
					01.I5.010 Jobsite Office	***1.00*** **LS**	**420**	**45,248**	**364,810**		**27,900**		**437,958.28 /LS**	**437,958**	**564,445.62 /LS**	**564,446**
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.76 /sy	70,105
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.76 /sy	4,382
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.76 /sy	8,763
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.45 /lf	23,112
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,796.08 /ea	11,592
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,764.34 /ea	9,529
					Tempoary Warehouse rental	18.00 MO		-	68,400	-	-	-	3,800.00 /MO	68,400	4,943.50 /MO	88,983
					Guard Shack - Rent (2)	18.00 mo		-	21,600	-	-	-	1,200.00 /mo	21,600	1,561.10 /mo	28,100
					Site Security Services	18.00 mo		202,410	-		-	-	11,245.00 /mo	202,410	13,813.59 /mo	248,645
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	468.33 /ea	46,833
					01.01.06.02 GC Temporary Facilities & Services	18.00 MO	517	261,469	155,400		13,584		23,914.04 /MO	430,453	30,002.41 /MO	540,043
					01.I5.011 Temporary Facilities	***1.00*** **LS**	**517**	**261,469**	**155,400**		**13,584**		**430,452.69 /LS**	**430,453**	**540,043.39 /LS**	**540,043**
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	18.00 MO		-	45,000	-	-	-	2,500.00 /MO	45,000	3,252.30 /MO	58,541
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,504.60 /ls	6,505
					Water - Consumption	18.00 mo		-	6,429	0	-	-	357.14 /mo	6,429	464.62 /mo	8,363
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,261.50 /ls	16,262
					Sewer - Septic Service	18.00 mo		30,000		0	-	-	1,666.67 /mo	30,000	2,047.37 /mo	36,853
					Hand Washing Station (3)	36.00 mo		-	5,760		-	-	160.00 /mo	5,760	208.15 /mo	7,493
					Portable Toilets (3)	36.00 mo		-	13,500	0	-	-	375.00 /mo	13,500	487.85 /mo	17,562
					Janitorial Service (3)	36.00 mo		-	17,100	0	-	-	475.00 /mo	17,100	617.94 /mo	22,246
					01.01.06.02 GC Temporary Facilities & Services	18.00 MO		30,000	105,289				7,516.03 /MO	135,289	9,656.93 /MO	173,825
					01.I5.012 Temporary Services	***1.00*** **LS**		**30,000**	**105,289**				**135,288.59 /LS**	**135,289**	**173,824.69 /LS**	**173,825**
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	27.00 mo		-	87,683	-	-		3,247.50 /mo	87,683	4,224.74 /mo	114,068
					Construction Delivery - Air Fare (mgmt 1 flight per month)	27.00 ea		-	10,125	-	-	0	375.00 /ea	10,125	487.85 /ea	13,172
					Business travel - Air Fare	27.00 ea		-	14,850	-	-	0	550.00 /ea	14,850	715.51 /ea	19,319
					Business travel - Hotel	180.00 day		-	24,300	-	-	0	135.00 /day	24,300	175.62 /day	31,612
					Business travel - Rental Car	180.00 day		-	13,500	-	-	0	75.00 /day	13,500	97.57 /day	17,562
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	27.00 mo		-	121,500	-	-		4,500.00 /mo	121,500	5,854.14 /mo	158,062
					Temporary housing (4 to share a single family home) Specialty Contractors	18.00 MO		-	81,000	-	-		4,500.00 /MO	81,000	5,854.14 /MO	105,375
					Personnel moving expense for 4 GC Management Staff	3.00 EA		-	16,500	-	-		5,500.00 /EA	16,500	7,155.06 /EA	21,465

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Personnel moving expense for 8 specialty workers	6.00 EA		-	30,000	-	-		5,000.00 /EA	30,000	6,504.60 /EA	39,028
					01.01.06.02 GC Temporary Facilities & Services	18.00 MO			399,458				22,192.08 /MO	399,458	28,870.13 /MO	519,662
					01.I5.013 Travel	***1.00*** **LS**			**399,458**				**399,457.50 /LS**	**399,458**	**519,662.42 /LS**	**519,662**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	78.00 wk	780	70,409	-	-	-	-	902.68 /wk	70,409	1,108.87 /wk	86,492
					Dumpster Rental	18.00 MO		-	21,600	-	-	-	1,200.00 /MO	21,600	1,561.11 /MO	28,100
					Dumpster Pulls	18.00 ea		-	13,950	-	-	-	775.00 /ea	13,950	1,008.21 /ea	18,148
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	37,525.23 /ls	37,525
					01.01.06.02 GC Temporary Facilities & Services	18.00 MO	1,380	98,309	38,050				7,575.50 /MO	136,359	9,459.16 /MO	170,265
					01.I5.014 Site Cleanup	***1.00*** **LS**	**1,380**	**98,309**	**38,050**				**136,359.04 /LS**	**136,359**	**170,264.85 /LS**	**170,265**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,046.02 /ls	65,046
					First Aid Consumables	18.00 MO		-	9,000	-	-	-	500.00 /MO	9,000	650.46 /MO	11,708
					01.01.06.02 GC Temporary Facilities & Services	18.00 MO			59,000				3,277.78 /MO	59,000	4,264.13 /MO	76,754
					01.I5.014A Site Safety	***1.00*** **LS**			**59,000**				**59,000.00 /LS**	**59,000**	**76,754.31 /LS**	**76,754**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	27.00 mo		-	-	-	21,924	-	812.00 /mo	21,924	997.48 /mo	26,932
					Yard Pickup Truck (4)	27.00 mo		-		-	21,924	-	812.00 /mo	21,924	997.48 /mo	26,932
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	975.70 /ea	1,951
					Small Tools (~0.5% Labor)	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	97,569.03 /ls	97,569
					Ice Machine	18.00 MO		-	4,500	-	-	-	250.00 /MO	4,500	325.23 /MO	5,854
					Coolers & Drinking Cups	18.00 mo		-	1,800	-	-	-	100.00 /mo	1,800	130.09 /mo	2,342
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,455.99 /ea	8,456
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			89,300		43,848		133,148.00 /LS	133,148	170,035.97 /LS	170,036
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**89,300**		**43,848**		**133,148.00 /LS**	**133,148**	**170,035.97 /LS**	**170,036**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,287.52 /ea	16,288
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	357.75 /ea	7,155
					Construction Photos	18.00 MO		-	6,300	0	-	-	350.00 /MO	6,300	455.32 /MO	8,196
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	32,523.02 /ea	32,523
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,503.59 /day	187,948
					01.01.06.04 GC Indirect Services & Support	18.00 MO	1,000	95,000	49,320		58,000		11,240.00 /MO	202,320	14,006.10 /MO	252,110
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**95,000**	**49,320**		**58,000**		**202,320.00 /LS**	**202,320**	**252,109.72 /LS**	**252,110**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	18.00 MO	3,120	358,793	-	-	-	-	19,932.95 /MO	358,793	24,486.04 /MO	440,749
					01-01-06-01 GC Labor	18.00 MO	3,120	358,793					19,932.95 /MO	358,793	24,486.04 /MO	440,749
					01.I6.000 Quality Control	***1.00*** **LS**	**3,120**	**358,793**					**358,793.10 /LS**	**358,793**	**440,748.77 /LS**	**440,749**
					01.01 Construction Operations	***18.00*** MO	20,837	2,722,659	1,538,126		683,332		274,673.18 /MO	4,944,117	343,609.37 /MO	6,184,969
					01.0 General Requirements	***18.00*** MO	20,837	2,722,659	1,538,126		683,332		274,673.18 /MO	4,944,117	343,609.37 /MO	6,184,969
					2100 General Conditions	***1.00*** **LS**	**20,837**	**2,722,659**	**1,538,126**		**683,332**		**4,944,117.20 /LS**	**4,944,117**	**6,184,968.70 /LS**	**6,184,969**
2115					**Funks Reservoir**											
	31.0				Earthwork											
		31.20			Earthworks, Site											
			31.00.107		**Funks Reservoir, Prepare Access/Haul Roads and Stockpile Areas**											
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul per C.Y.	184,000.00 CY	2,925	332,535	-	-	343,699	-	3.68 /CY	676,235	4.51 /CY	830,701
					Load excavated spoils	184,000.00 cy	1,380	156,889		-	139,165	-	1.61 /cy	296,053	1.98 /cy	363,678
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	184,000.00 cy	2,453	243,331	-	-	665,239	-	4.94 /cy	908,570	6.07 /cy	1,116,106
					Stockpile Management	184,000.00 cy	460	52,296			46,388		0.54 /cy	98,684	0.66 /cy	121,226
					31.15.01.00 Site Preparation, Clearing and Grubbing	184,000.00 CY	7,218	785,052			1,194,491		10.76 /CY	1,979,542	13.22 /CY	2,431,710
					31.00.107 Funks Reservoir, Prepare Access/Haul Roads and Stockpile Areas	**184,000.00 CY**	**7,218**	**785,052**			**1,194,491**		**10.76 /CY**	**1,979,542**	**13.22 /CY**	**2,431,710**
			31.00.108		**Funks Reservoir, Sediment Removal**											
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Load excavated spoils	220,000.00 Cy	1,650	187,584		-	166,393	-	1.61 /Cy	353,977	1.98 /Cy	434,832
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	220,000.00 cy	2,933	290,940	-	-	795,394	-	4.94 /cy	1,086,334	6.07 /cy	1,334,474
					Stockpile Management	220,000.00 cy	550	62,528			55,464		0.54 /cy	117,992	0.66 /cy	144,944
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	220,000.00 Cy	5,133	541,052			1,017,251		7.08 /Cy	1,558,303	8.70 /Cy	1,914,251
				35.00.20.04	Hydraulic Dredging											
					Dredging, mobilization and demobilization, add to below	1.00 ls	960	100,886	-	-	78,239	-	179,124.96 /ls	179,125	220,040.76 /ls	220,041
					Hydraulic dredging, pumped to shore dump, hydraulic method	220,000.00 CY	33,000	3,553,198	-	-	1,497,529	-	22.96 /CY	5,050,727	28.20 /CY	6,204,416
					Moving/Drying Dredging Spoils, Stockpile Area Construction and Maintenance Allowance	220,000.00 CY	6,600	750,336	220,000	-	332,785	-	5.92 /CY	1,303,122	7.35 /CY	1,616,731
					35.00.20.04 Hydraulic Dredging	440,000.00 CY	40,560	4,404,420	220,000		1,908,553		14.85 /CY	6,532,974	18.28 /CY	8,041,188
					31.00.108 Funks Reservoir, Sediment Removal	**440,000.00 CY**	**45,693**	**4,945,472**	**220,000**		**2,925,804**		**18.39 /CY**	**8,091,276**	**22.63 /CY**	**9,955,439**
			31.00.110		**Funks Reservoir, Reservoir Excavation**											
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Ripping till, boulder clay/hardpan, medium hard, adverse conditions, 300 H.P., dozer with single shank ripper	660,000.00 cy	1,238	140,688	-	-	186,720	-	0.50 /cy	327,408	0.61 /cy	402,195
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	660,000.00 CY	5,082	585,995	-	-	984,238	-	2.38 /CY	1,570,233	2.92 /CY	1,928,907
					Load excavated spoils	660,000.00 cy	4,950	562,752		-	499,178	-	1.61 /cy	1,061,930	1.98 /cy	1,304,497
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	660,000.00 cy	8,800	872,819	-	-	2,386,182	-	4.94 /cy	3,259,001	6.07 /cy	4,003,423

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	660,000.00 CY	20,070	2,162,255			4,056,317		9.42 /CY	6,218,572	11.57 /CY	7,639,021
					31.00.110 Funks Reservoir, Reservoir Excavation	660,000.00 CY	20,070	2,162,255			4,056,317		9.42 /CY	6,218,572	11.57 /CY	7,639,021
					31.20 Earthworks, Site	1,284,000.00 CY	72,981	7,892,778	220,000		8,176,612		12.69 /CY	16,289,391	15.60 /CY	20,026,170
					31.0 Earthwork	1,284,000.00 CY	72,981	7,892,778	220,000		8,176,612		12.69 /CY	16,289,391	15.60 /CY	20,026,170
					2115 Funks Reservoir	1.00 LS	72,981	7,892,778	220,000		8,176,612		16,289,390.57 /LS	16,289,391	20,026,170.13 /LS	20,026,170
2120					Funks Reservoir, Construct PGP Cofferdam											
	31.0				Earthwork											
		31.20			Earthworks, Site											
			31.00.114		Funks Reservoir, Construct PGP Cofferdam											
				31.20.07.12	Earthworks, Sitework, Excavating Berm Foundation											
					Ripping till, boulder clay/hardpan, medium hard, adverse conditions, 300 H.P., dozer with single shank ripper	44,000.00 cy	83	9,379	-	-	12,448	-	0.50 /cy	21,827	0.61 /cy	26,813
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	44,000.00 CY	339	39,066	-	-	65,616	-	2.38 /CY	104,682	2.92 /CY	128,594
					Load excavated spoils	44,000.00 cy	330	37,517		-	33,279	-	1.61 /cy	70,795	1.98 /cy	86,966
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	44,000.00 cy	587	58,188	-	-	159,079	-	4.94 /cy	217,267	6.07 /cy	266,895
					31.20.07.12 Earthworks, Sitework, Excavating Berm Foundation	44,000.00 CY	1,338	144,150			270,421		9.42 /CY	414,571	11.57 /CY	509,268
				31.20.07.15	Earthworks, Sitework, Borrow											
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	5,000.00 Cy	39	4,439	-	-	7,456	-	2.38 /Cy	11,896	2.92 /Cy	14,613
					Grading deadpool area w/dozer	5,000.00 sy	35	3,979	-	-	4,142	-	1.62 /sy	8,121	2.00 /sy	9,976
					Load excavated spoils	5,000.00 cy	38	4,263		-	3,782	-	1.61 /cy	8,045	1.98 /cy	9,883
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	5,000.00 cy	67	6,612	-	-	18,077	-	4.94 /cy	24,689	6.07 /cy	30,329
					31.20.07.15 Earthworks, Sitework, Borrow	5,000.00 Cy	178	19,294			33,457		10.55 /Cy	52,751	12.96 /Cy	64,801
				31.20.09.40	Earthworks, Sitework, Embankments/Berms											
					Construct cofferdam embankment w/200 HP dozer, Rock Fill	58,410.00 CY	4,381	498,036	-	-	514,756	-	17.34 /CY	1,012,791	21.30 /CY	1,244,134
					Rockfill Purchase and Delivery	58,410.00 cy			1,752,300	-		-	30.00 /cy	1,752,300	39.03 /cy	2,279,603
					Construct cofferdam embankment w/200 HP dozer, Earth Fill	4,255.00 CY	485	55,146	-	-	56,998	-	26.36 /CY	112,144	32.38 /CY	137,760
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	62,665.00 cy	836	82,872	-	-	226,561	-	4.94 /cy	309,432	6.07 /cy	380,113
					Compaction, water for, 3000 gallon truck, 3 mile haul	4,255.00 cy	34	3,816		-	1,982	-	1.36 /cy	5,798	1.67 /cy	7,122
					Compaction, structural, common fill, 8" lifts, sheepsfoot	4,255.00 cy	38	4,354	-	-	2,492	-	1.61 /cy	6,845	1.98 /cy	8,409
					Grade cofferdam top/sideslopes	16,433.33 sy	200	22,737	-	-	17,626	-	2.46 /sy	40,363	3.02 /sy	49,583
					Geosynthetic soil stabilization, geotextile fabric, non-woven, 120 lb. tensile strength, between rock and earth fill includes scarifying and compaction	5,683.33 sy	36	3,310	7,218	-	-	-	1.85 /sy	10,528	2.37 /sy	13,456
					Geosynthetic soil stabilization, geotextile fabric, non-woven, 120 lb. tensile strength, liner system, includes scarifying and compaction	15,950.00 sy	102	9,289	20,257	-	-	-	1.85 /sy	29,545	2.37 /sy	37,763
					Pond and reservoir liners, membrane lining systems HDPE, 100,000 S.F. or more, 60 mil thick, per M.S.F.	143.55 msf	2,153	219,289	81,824	-	38,051	-	2,362.69 /msf	339,164	2,943.70 /msf	422,568
					Anchor Trench Excavation and Backfill W/ Earthfill	1,800.00 lf	240	24,442		-	2,827	-	15.15 /lf	27,269	18.61 /lf	33,498
					Anchor Trench Excavation and Backfill W/ CLSM, includes hauloff of excavated spils.	3,700.00 lf	493	50,241	94,350	-	5,812	-	40.65 /lf	150,403	51.78 /lf	191,599
					31.20.09.40 Earthworks, Sitework, Embankments/Berms	62,665.00 CY	8,999	973,532	1,955,948		867,103		60.59 /CY	3,796,583	76.69 /CY	4,805,606
				32.40.04.00	Site Improvements, Paving, Gravel Road											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	2,610.00 SY	21	2,255	-	-	1,453	-	1.42 /SY	3,708	1.75 /SY	4,555
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,8"deep	500.00 cy	44	4,818	30,000	-	3,411	-	76.46 /cy	38,229	98.27 /cy	49,136
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	2,610.00 sy	18	2,035	-	-	1,233	-	1.25 /sy	3,268	1.54 /sy	4,014
					32.40.04.00 Site Improvements, Paving, Gravel Road	2,610.00 SY	83	9,108	30,000		6,096		17.32 /SY	45,204	22.11 /SY	57,705
					31.00.114 Funks Reservoir, Construct PGP Cofferdam	106,665.00 CY	10,597	1,146,084	1,985,948		1,177,078		40.40 /CY	4,309,110	50.98 /CY	5,437,380
			31.00.118		Funks Reservoir, Remove PGP Cofferdam											
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	29,920.00 CY	230	26,565	-	-	44,619	-	2.38 /CY	71,184	2.92 /CY	87,444
					Grading area w/dozer	15,500.00 sy	109	12,335	-	-	12,840	-	1.62 /sy	25,175	2.00 /sy	30,926
					Load excavated spoils	29,920.00 cy	224	25,511		-	22,629	-	1.61 /cy	48,141	1.98 /cy	59,137
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	29,920.00 cy	399	39,568	-	-	108,174	-	4.94 /cy	147,741	6.07 /cy	181,489
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	29,920.00 CY	962	103,979			188,262		9.77 /CY	292,241	12.00 /CY	358,995
					31.00.118 Funks Reservoir, Remove PGP Cofferdam	29,920.00 CY	962	103,979			188,262		9.77 /CY	292,241	12.00 /CY	358,995
					31.20 Earthworks, Site	136,585.00 CY	11,559	1,250,063	1,985,948		1,365,340		33.69 /CY	4,601,351	42.44 /CY	5,796,375
					31.0 Earthwork	136,585.00 CY	11,559	1,250,063	1,985,948		1,365,340		33.69 /CY	4,601,351	42.44 /CY	5,796,375
					2120 Funks Reservoir, Construct PGP Cofferdam	1.00 LS	11,559	1,250,063	1,985,948		1,365,340		4,601,351.18 /LS	4,601,351	5,796,375.00 /LS	5,796,375
2130					Funks Reservoir, Funks PGP Approach Channels											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.10.05.0030		Slab on Grade, 30" Thick											
				03.10.05.30	Cast-In-Place Concrete, Slabs on Grade, 30" thick											
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	260.00 cy		-	7,670	-	-	-	29.50 /cy	7,670	44.28 /cy	11,512
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	1,075.00 sfca	106	11,045	1,043	-	-	-	11.24 /sfca	12,088	16.13 /sfca	17,342
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	58.60 ton	938	109,701	87,900	-	-	-	3,372.03 /ton	197,601	4,925.43 /ton	288,630
					Reinforcing in place, unloading & sorting, add to above - slabs	58.60 ton	33	3,912	-	-	1,359	-	89.94 /ton	5,271	128.48 /ton	7,529
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	669.00 cy		-	147,180	-	-	-	220.00 /cy	147,180	330.20 /cy	220,905
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	649.00 CY	225	21,497	-	-	3,163	-	38.00 /CY	24,660	54.28 /CY	35,225
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&vln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	7,000.00 sf	98	8,937	-	-	356	-	1.33 /sf	9,293	1.90 /sf	13,274
					Curing, sprayed membrane curing compound	70.00 csf	12	1,073	872	-	-	-	27.78 /csf	1,944	40.58 /csf	2,840
					Fine grading, fine grade for slab on grade, machine	777.78 sy	12	1,292	-	-	832	-	2.73 /sy	2,125	3.90 /sy	3,035

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.05.30 Cast-In-Place Concrete, Slabs on Grade, 30" thick	**649.00 CY**	**1,422**	**157,458**	**244,664**		**5,710**		**628.40 /CY**	**407,832**	**924.95 /CY**	**600,294**
					03.10.05.0030 Slab on Grade, 30" Thick	**649.00 CY**	**1,422**	**157,458**	**244,664**		**5,710**		**628.40 /CY**	**407,832**	**924.95 /CY**	**600,294**
			03.10.05.0036		**Slab on Grade, 36" Thick**											
				03.10.05.36	**Cast-In-Place Concrete, Slabs on Grade, 36" thick**											
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	575.00 cy		-	16,963	-	-	-	29.50 /cy	16,963	44.28 /cy	25,459
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	2,790.00 sfca	274	28,666	2,706	-	-	-	11.24 /sfca	31,373	16.13 /sfca	45,010
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	150.00 ton	2,400	280,805	225,000	-	-	-	3,372.03 /ton	505,805	4,925.43 /ton	738,814
					Reinforcing in place, unloading & sorting, add to above - slabs	150.00 ton	84	10,013	-	-	3,478	-	89.94 /ton	13,492	128.48 /ton	19,272
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	1,765.00 cy		-	388,300	-	-	-	220.00 /cy	388,300	330.20 /cy	582,807
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	1,712.00 CY	592	56,708	-	-	8,343	-	38.00 /CY	65,051	54.28 /CY	92,920
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	15,400.00 sf	216	19,660	-	-	784	-	1.33 /sf	20,444	1.90 /sf	29,203
					Curing, sprayed membrane curing compound	154.00 csf	26	2,360	1,917	-	-	-	27.78 /csf	4,277	40.58 /csf	6,249
					Fine grading, fine grade for slab on grade, machine	1,711.11 sy	26	2,843	-	-	1,831	-	2.73 /sy	4,675	3.90 /sy	6,677
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	**1,712.00 CY**	**3,618**	**401,057**	**634,886**		**14,436**		**613.54 /CY**	**1,050,379**	**903.28 /CY**	**1,546,412**
					03.10.05.0036 Slab on Grade, 36" Thick	**1,712.00 CY**	**3,618**	**401,057**	**634,886**		**14,436**		**613.54 /CY**	**1,050,379**	**903.28 /CY**	**1,546,412**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**2,361.00 CY**	**5,041**	**558,514**	**879,550**		**20,146**		**617.62 /CY**	**1,458,211**	**909.24 /CY**	**2,146,706**
					03.0 Concrete Work	**2,361.00 CY**	**5,041**	**558,514**	**879,550**		**20,146**		**617.62 /CY**	**1,458,211**	**909.24 /CY**	**2,146,706**
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			31.00.120		**Funks Reservoir, Funks PGP Approach Channels**											
				31.20.07.10	**Earthworks, Sitework, Excavating Bulk Measure**											
					Ripping till, boulder clay/hardpan, medium hard, adverse conditions, 300 H.P., dozer with single shank ripper	81,400.00 cy	153	17,352	-	-	23,029	-	0.50 /cy	40,380	0.61 /cy	49,604
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	81,400.00 CY	627	72,273	-	-	121,389	-	2.38 /CY	193,662	2.92 /CY	237,899
					Load excavated spoils	81,400.00 cy	611	69,406		-	61,565	-	1.61 /cy	130,971	1.98 /cy	160,888
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	81,400.00 cy	1,085	107,648	-	-	294,296	-	4.94 /cy	401,943	6.07 /cy	493,756
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	**81,400.00 CY**	**2,475**	**266,678**			**500,279**		**9.42 /CY**	**766,957**	**11.57 /CY**	**942,146**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Load excavated spoils	81,400.00 Cy	611	69,406		-	61,565	-	1.61 /Cy	130,971	1.98 /Cy	160,888
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	81,400.00 cy	1,085	107,648	-	-	294,296	-	4.94 /cy	401,943	6.07 /cy	493,756
					Stockpile Management	81,400.00 cy	204	23,135			20,522		0.54 /cy	43,657	0.66 /cy	53,629
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**81,400.00 Cy**	**1,899**	**200,189**			**376,383**		**7.08 /Cy**	**576,572**	**8.70 /Cy**	**708,273**
				31.30.06.00	**Site Specialties, Slab Anchors**											
					Slab Anchors, 16' Bond Length	230.00 EA	1,380	125,574	276,000	-	85,560	-	2,117.98 /EA	487,134	2,688.76 /EA	618,416
					Boring for Slab Anchors to 4.5" Dia, 16' Bond Length	230.00 ea	2,760	296,046	-	-	172,746	-	2,038.22 /ea	468,792	2,503.80 /ea	575,873
					Load excavated spoils	57.00 cy	0	49	0	-	43	-	1.61 /cy	92	1.98 /cy	113
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, excld loadng	57.00 cy	1	75	-	-	206	-	4.94 /cy	281	6.07 /cy	346
					Miscellaneous Items and Consumables Allowance	1.00 ls		20,000	25,000	-	5,000	-	50,000.00 /ls	50,000	63,233.53 /ls	63,234
					31.30.06.00 Site Specialties, Slab Anchors	**230.00 EA**	**4,141**	**441,744**	**301,000**		**263,555**		**4,375.21 /EA**	**1,006,299**	**5,469.48 /EA**	**1,257,981**
					31.00.120 Funks Reservoir, Funks PGP Approach Channels	**81,400.00 CY**	**8,516**	**908,612**	**301,000**		**1,140,217**		**28.87 /CY**	**2,349,828**	**35.73 /CY**	**2,908,400**
					31.20 Earthworks, Site	**81,400.00 CY**	**8,516**	**908,612**	**301,000**		**1,140,217**		**28.87 /CY**	**2,349,828**	**35.73 /CY**	**2,908,400**
		31.30			**Site Specialties**											
			31.23.120		**Waterway Bank Protection, Rip Rap**											
				35.15.00.16	**Waterway Bank Protection, Rip Rap**											
					Rip Rap Bedding, gravel fill, compacted, 12" deep	4,000.00 cy	873	84,676	154,000	-	5,331	-	61.00 /cy	244,007	77.73 /cy	310,908
					Geosynthetic soil stabilization, geotextile fabric, non-woven, 120 lb. tensile strength, includes scarifying and compaction	10,412.00 sy	67	6,064	13,223	-	-	-	1.85 /sy	19,287	2.37 /sy	24,651
					Rip-rap and rock lining, random, broken stone, machine placed for slope protection, not grouted	10,412.00 SY	11,001	1,107,210	426,892	-	455,524	-	191.09 /SY	1,989,626	237.71 /SY	2,475,046
					35.15.00.16 Waterway Bank Protection, Rip Rap	**10,412.00 SY**	**11,941**	**1,197,950**	**594,115**		**460,855**		**216.38 /SY**	**2,252,920**	**269.94 /SY**	**2,810,606**
					31.23.120 Waterway Bank Protection, Rip Rap	**10,412.00 SY**	**11,941**	**1,197,950**	**594,115**		**460,855**		**216.38 /SY**	**2,252,920**	**269.94 /SY**	**2,810,606**
					31.30 Site Specialties	***1.00* LS**	**11,941**	**1,197,950**	**594,115**		**460,855**		**2,252,919.62 /LS**	**2,252,920**	**2,810,605.84 /LS**	**2,810,606**
					31.0 Earthwork	**81,400.00 CY**	**20,456**	**2,106,561**	**895,115**		**1,601,071**		**56.54 /CY**	**4,602,748**	**70.26 /CY**	**5,719,005**
					2130 Funks Reservoir, Funks PGP Approach Channels	***1.00* LS**	**25,497**	**2,665,076**	**1,774,666**		**1,621,217**		**6,060,958.85 /LS**	**6,060,959**	**7,865,711.10 /LS**	**7,865,711**
2140					**Funks Reservoir, Sediment Impoundment**											
	05.0				**Metals**											
		05.50			**Metal Fabrications**											
			05.00.99.0010		**Metals, Riser Weir and Aluminum Walkway**											
				05.00.99.02	**Metals, Riser Weir and Aluminum Walkway**											
					Riser Weir Foundation Slab, Complete	34.00 cy				21,760	-	-	640.00 /cy	21,760	786.19 /cy	26,730
					Riser Weir Metal Structure, Complete	3.40 tn				25,500	-	-	7,500.00 /tn	25,500	9,213.16 /tn	31,325
					Aluminum Walkway and Supports Allowance	1,040.00 sf				36,400	-	-	35.00 /sf	36,400	42.99 /sf	44,715
					05.00.99.02 Metals, Riser Weir and Aluminum Walkway	***1.00* LS**				**83,660**			**83,660.00 /LS**	**83,660**	**102,769.65 /LS**	**102,770**
					05.00.99.0010 Metals, Riser Weir and Aluminum Walkway	***1.00* LS**				**83,660**			**83,660.00 /LS**	**83,660**	**102,769.65 /LS**	**102,770**
					05.50 Metal Fabrications	***1.00* LS**				**83,660**			**83,660.00 /LS**	**83,660**	**102,769.65 /LS**	**102,770**
					05.0 Metals	***1.00* LS**				**83,660**			**83,660.00 /LS**	**83,660**	**102,769.65 /LS**	**102,770**
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			31.00.122		**Funks Reservoir, Sediment Impoundment**											
				31.20.07.15	**Earthworks, Sitework, Borrow**											
					Excavate material at deadpool area for levee embankments, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer	81,000.00 Cy	624	71,918	-	-	120,793	-	2.38 /Cy	192,710	2.92 /Cy	236,729
					Load excavated spoils	81,000.00 cy	608	69,065		-	61,263	-	1.61 /cy	130,328	1.98 /cy	160,097

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.20.07.15	Earthworks, Sitework, Borrow											
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, exclds loadng	81,000.00 cy	1,080	107,119	-	-	292,850	-	4.94 /cy	399,968	6.07 /cy	491,329
					31.20.07.15 Earthworks, Sitework, Borrow	81,000.00 Cy	2,311	248,101			474,905		8.93 /Cy	723,007	10.96 /Cy	888,156
				31.20.09.40	Earthworks, Sitework, Embankments/Berms											
					Construct cofferdam embankment w/200 HP dozer	81,000.00 CY	1,215	138,130	-	-	142,767	-	3.47 /CY	280,897	4.26 /CY	345,060
					Load excavated spoils	81,000.00 cy	608	69,065		-	61,263	-	1.61 /cy	130,328	1.98 /cy	160,097
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,on-site disposal, exclds loadng	81,000.00 cy	1,080	107,119	-	-	292,850	-	4.94 /cy	399,968	6.07 /cy	491,329
					Compaction, water for, 3000 gallon truck, 3 mile haul	81,000.00 cy	648	72,647		-	37,721	-	1.36 /cy	110,368	1.67 /cy	135,578
					Compaction, structural, common fill, 8" lifts, sheepsfoot	81,000.00 cy	729	82,878	-	-	47,431	-	1.61 /cy	130,309	1.98 /cy	160,074
					Grade cofferdam top/sideslopes	11,340.00 sy	138	15,690	-	-	12,163	-	2.46 /sy	27,853	3.02 /sy	34,215
					31.20.09.40 Earthworks, Sitework, Embankments/Berms	81,000.00 CY	4,418	485,529			594,194		13.33 /CY	1,079,723	16.37 /CY	1,326,354
					31.00.122 Funks Reservoir, Sediment Impoundment	***1.00*** **LS**	**6,729**	**733,630**			**1,069,100**		**1,802,729.53 /LS**	**1,802,730**	**2,214,509.77 /LS**	**2,214,510**
					31.20 Earthworks, Site	81,000.00 CY	6,729	733,630			1,069,100		22.26 /CY	1,802,730	27.34 /CY	2,214,510
		31.30			Site Specialties											
			31.23.120		**Waterway Bank Protection, Rip Rap**											
				35.15.00.16	Waterway Bank Protection, Rip Rap											
					Rip Rap Bedding, gravel fill, compacted, 12" deep	780.00 cy	170	16,512	30,030	-	1,040	-	61.00 /cy	47,581	77.73 /cy	60,627
					Geosynthetic soil stabilization, geotextile fabric, non-woven, 120 lb. tensile strength, includes scarifying and compaction	2,030.00 sy	13	1,182	2,578	-	-	-	1.85 /sy	3,760	2.37 /sy	4,806
					Rip-rap and rock lining, random, broken stone, machine placed for slope protection, not grouted	2,030.00 SY	2,145	215,870	83,230	-	88,812	-	191.09 /SY	387,912	237.71 /SY	482,553
					35.15.00.16 Waterway Bank Protection, Rip Rap	2,030.00 SY	2,328	233,564	115,838		89,852		216.38 /SY	439,254	269.94 /SY	547,987
					31.23.120 Waterway Bank Protection, Rip Rap	**2,030.00 SY**	**2,328**	**233,564**	**115,838**		**89,852**		**216.38 /SY**	**439,254**	**269.94 /SY**	**547,987**
					31.30 Site Specialties	***1.00*** **LS**	2,328	233,564	115,838		89,852		439,253.73 /LS	439,254	547,986.53 /LS	547,987
					31.0 Earthwork	81,000.00 CY	9,057	967,194	115,838		1,158,951		27.68 /CY	2,241,983	34.10 /CY	2,762,496
	33.0				Utilities											
		33.07			Buried Process Pipe, HDPE											
			33.00.09.DP16		**16-Inch Dia HDPE Dredge Pipeline**											
				33.00.09.16	Buried Pipe, HDPE, 16"											
					16-Inch Dia HDPE Dredge Pipeline	3,500.00 LF	1,400	139,482	77,000	-	41,892	-	73.82 /LF	258,374	92.28 /LF	322,974
					Pipeline Fittings and Holddown	1.00 ls		15,000	20,000	-	5,000	-	40,000.00 /ls	40,000	50,586.82 /ls	50,587
					Miscellaneous Items and Consumables Allowance	1.00 ls				15,000		-	15,000.00 /ls	15,000	18,426.31 /ls	18,426
					33.00.09.16 Buried Pipe, HDPE, 16"	3,500.00 LF	1,400	154,482	97,000	15,000	46,892		89.54 /LF	313,374	112.00 /LF	391,987
					33.00.09.DP16 16-Inch Dia HDPE Dredge Pipeline	**3,500.00 LF**	**1,400**	**154,482**	**97,000**	**15,000**	**46,892**		**89.54 /LF**	**313,374**	**112.00 /LF**	**391,987**
			33.00.09.DP24		**24-Inch Dia HDPE Dredge Pipeline**											
				33.00.09.24	Buried Pipe, HDPE, 24"											
					24-Inch Dia HDPE Dredge Pipeline	1,900.00 LF	760	75,719	46,550	-	22,741	-	76.32 /LF	145,010	95.53 /LF	181,508
					Excavation and Backfill for Discharge Piping, Includes CLSM Backfill	1.00 ls	120	12,221	7,500	-	1,414	-	21,134.60 /ls	21,135	26,505.93 /ls	26,506
					Rip Rap at Pipe Discharge	103.00 sy				22,660		-	220.00 /sy	22,660	270.25 /sy	27,836
					33.00.09.24 Buried Pipe, HDPE, 24"	1,900.00 LF	880	87,940	54,050	22,660	24,155		99.37 /LF	188,805	124.13 /LF	235,850
					33.00.09.DP24 24-Inch Dia HDPE Dredge Pipeline	**1,900.00 LF**	**880**	**87,940**	**54,050**	**22,660**	**24,155**		**99.37 /LF**	**188,805**	**124.13 /LF**	**235,850**
					33.07 Buried Process Pipe, HDPE	5,400.00 LF	2,280	242,422	151,050	37,660	71,047		93.00 /LF	502,179	116.27 /LF	627,838
					33.0 Utilities	5,400.00 LF	2,280	242,422	151,050	37,660	71,047		93.00 /LF	502,179	116.27 /LF	627,838
	44.0				Pollution and Waste Control Equipment											
		44.40			Process Equipment - Pumps											
			44.05.53.0010		**600 HP High Head Booster Pump**											
				44.05.53.00	600 HP High Head Booster Pump											
					Furnish and Install 600 HP Booster Pump, Allowance	1.00 EA	96	10,861	140,000	-	1,120	-	151,981.34 /EA	151,981	196,846.98 /EA	196,847
					44.05.53.00 600 HP High Head Booster Pump	1.00 EA	96	10,861	140,000		1,120		151,981.34 /EA	151,981	196,846.98 /EA	196,847
					44.05.53.0010 600 HP High Head Booster Pump	**1.00 EA**	**96**	**10,861**	**140,000**		**1,120**		**151,981.34 /EA**	**151,981**	**196,846.98 /EA**	**196,847**
					44.40 Process Equipment - Pumps	1.00 EA	96	10,861	140,000		1,120		151,981.34 /EA	151,981	196,846.98 /EA	196,847
					44.0 Pollution and Waste Control Equipment	1.00 EA	96	10,861	140,000		1,120		151,981.34 /EA	151,981	196,846.98 /EA	196,847
					2140 Funks Reservoir, Sediment Impoundment	***1.00*** **LS**	**11,433**	**1,220,477**	**406,888**	**121,320**	**1,231,118**		**2,979,803.25 /LS**	**2,979,803**	**3,689,950.56 /LS**	**3,689,951**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	15,751,053		142,307.576	
Material	5,925,628			
Subcontractor	121,320			
Equipment	13,077,620		197,983.076	
Other				
Subtotal Direct Costs	**34,875,621**	**34,875,621**		
Material Sales Tax, Dunnigan Ca	429,608			7.250 %
Subtotal w/ Sales Tax	**429,608**	**35,305,229**		
Concrete Sub OH&P	291,642			20.000 %
Architectural (Div 6-12) OH&P				20.000 %
Subtotal w/ Sub Markup	**291,642**	**35,596,871**		
Mobilization/Demobilization	1,067,906			3.000 %
Prime Contractor Home OfficeOH	3,559,687			10.000 %
Prime Contractor Profit	2,413,468			6.000 %
Bonds & Insurance	925,243			2.170 %
Subtotal w/ Prime Markups	**7,966,304**	**43,563,175**		
Contractor Contingency	1,306,895			3.000 %
Design Contingency	7,841,372			18.000 %
Subtotal w/ Contingency	**9,148,267**	**52,711,442**		
Opinion of Probable Constrctuion Costs		**52,711,442**		
Total		***52,711,442***		

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Appendix G
Package 4
Terminal Regulating Reservoir Detailed Cost Estimate

Summary Report

Project Name: TRR Reservoir (MARCH 2024 Costs)
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R02 - 04/14/2025
Class Estimate: 3

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2215.01	**General Conditions**	***1.00*** **LS**	**22,882,454.74 /LS**	**22,882,455**
2215.02	**Reservoir Excavation**	**5,869,000.00 CY**	**23.15 /CY**	**135,883,651**
2215.04	**Service Road**	**13,300.00 SY**	**89.64 /SY**	**1,192,159**
2215.05	**Gunite V-Ditch**	**2,300.00 SY**	**53.36 /SY**	**122,724**
2215.06	**PGP and Dissipation Structure Concrete Aprons**	***1.00*** **LS**	**10,640,577.80 /LS**	**10,640,578**
2215.12	**Preloading, Surcharge Earthfill**	**22,500.00 CY**	**125.87 /CY**	**2,831,991**
2215.14	**U-Channel**	***2,324.00*** **LF**	**11,619.89 /LF**	**27,004,635**
2215.16	**Access Road and Parking**	**10,800.00 SY**	**70.21 /SY**	**758,317**
2215.18	**Earthen Channel**	***340.00*** **LF**	**2,338.42 /LF**	**795,064**
2215.20	**Siphon**	**330.00 LF**	**4,938.30 /LF**	**1,629,638**
2215.22	**Lateral Canal**	***820.00*** **LF**	**650.68 /LF**	**533,555**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	71,368,253		496,920.434	
Material	30,232,667			
Subcontractor	3,092,503			
Equipment	99,581,346		288,950.824	
Other				
Subtotal w/ Prime Markups	**204,274,769**	**204,274,769**		
Contratcor Contingency	6,128,243			3.000 %
Design Contingency	36,769,458			18.000 %
Opinion of Probable Construction Costs	**42,897,701**	**247,172,470**		

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2215.01				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.00.700	TRR Reservoir, Dewatering/Erosion Controls/Dust Abatement	24.00 MO	75,010.70 /MO	1,800,257
			01.I5.000	General Conditions, Other	*1.00* LS	303,308.65 /LS	303,309
			01.I5.005	GC Labor	*1.00* LS	7,477,479.17 /LS	7,477,479
			01.I5.010	Jobsite Office	*1.00* LS	787,467.16 /LS	787,467
			01.I5.011	Temporary Facilities	*1.00* LS	2,546,186.21 /LS	2,546,186
			01.I5.012	Temporary Services	*1.00* LS	412,667.32 /LS	412,667
			01.I5.013	Travel	*1.00* LS	1,847,469.22 /LS	1,847,469
			01.I5.014	Site Cleanup	*1.00* LS	549,052.31 /LS	549,052
			01.I5.014A	Site Safety	*1.00* LS	1,295,349.96 /LS	1,295,350
			01.I5.015	GC Equip, Tools, & Consumables	*1.00* LS	1,731,866.51 /LS	1,731,867
			01.I5.016	Material Handling	*1.00* LS	2,158,312.08 /LS	2,158,312
			01.I5.020	GC Indirect Services & Support	*1.00* LS	563,597.61 /LS	563,598
			01.I6.000	Quality Control	*1.00* LS	1,409,441.83 /LS	1,409,442
				01.01 Construction Operations	*24.00* MO	953,435.61 /MO	22,882,455
				01.0 General Requirements	*24.00* MO	953,435.61 /MO	22,882,455
				2215.01 General Conditions	*1.00* LS	22,882,454.74 /LS	22,882,455
2215.02				**Reservoir Excavation**			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			2215.002	Reservoir Excavation	5,869,000.00 CY	23.15 /CY	135,883,651
				31.20 Earthworks, Site	5,869,000.00 CY	23.15 /CY	135,883,651
				31.0 Earthwork	5,869,000.00 CY	23.15 /CY	135,883,651
				2215.02 Reservoir Excavation	**5,869,000.00 CY**	**23.15 /CY**	**135,883,651**
2215.04				**Service Road**			
	32.0			Exterior Improvements			
		32.12		Paving			
			2215.004	Service Road	13,300.00 SY	89.64 /SY	1,192,159
				32.12 Paving	13,300.00 SY	89.64 /SY	1,192,159
				32.0 Exterior Improvements	*1.00* LS	1,192,159.19 /LS	1,192,159
				2215.04 Service Road	**13,300.00 SY**	**89.64 /SY**	**1,192,159**
2215.05				**Gunite V-Ditch**			
	32.0			Exterior Improvements			
		32.12		Paving			
			2215.005	Gunite V-Ditch	2,300.00 SY	53.36 /SY	122,724
				32.12 Paving	2,300.00 SY	53.36 /SY	122,724
				32.0 Exterior Improvements	*1.00* LS	122,724.23 /LS	122,724
				2215.05 Gunite V-Ditch	**2,300.00 SY**	**53.36 /SY**	**122,724**
2215.06				**PGP and Dissipation Structure Concrete Aprons**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			2215.006	PGP and Dissipation Structure Concrete Aprons	11,770.00 CY	815.32 /CY	9,596,308
				03.18 Cast-In-Place Concrete, Slabs on Grade	11,770.00 CY	815.32 /CY	9,596,308
				03.0 Concrete Work	11,770.00 CY	815.32 /CY	9,596,308
	31.0			Earthwork			
		31.20		Earthworks, Site			
			2215.0061	PGP and Dissipation Structure Concrete Aprons - Earthwork	8,800.00 CY	18.23 /CY	160,417
				31.20 Earthworks, Site	8,800.00 CY	18.23 /CY	160,417
				31.0 Earthwork	8,800.00 CY	18.23 /CY	160,417
	33.0			Utilities			
		33.05		Buried Process Pipe, PVC/CPVC			
			2215.0062	PGP and Dissipation Structure Concrete Aprons - Underdrain	510.00 LF	1,733.05 /LF	883,853
				33.05 Buried Process Pipe, PVC/CPVC	510.00 LF	1,733.05 /LF	883,853
				33.0 Utilities	510.00 LF	1,733.05 /LF	883,853
				2215.06 PGP and Dissipation Structure Concrete Aprons	*1.00* LS	10,640,577.80 /LS	10,640,578
2215.12				**Preloading, Surcharge Earthfill**			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			2215.012	Preloading, Surcharge Earthfill	22,500.00 CY	125.87 /CY	2,831,991
				31.20 Earthworks, Site	22,500.00 CY	125.87 /CY	2,831,991
				31.0 Earthwork	22,500.00 CY	125.87 /CY	2,831,991
				2215.12 Preloading, Surcharge Earthfill	**22,500.00 CY**	**125.87 /CY**	**2,831,991**
2215.14				**U-Channel**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			2215.014	U-Channel	15,675.00 CY	810.66 /CY	12,707,083
				03.18 Cast-In-Place Concrete, Slabs on Grade	15,675.00 CY	810.66 /CY	12,707,083
		03.20		Cast-In-Place Concrete, Straight Walls			
			2215.014	U-Channel	6,050.00 CY	1,675.14 /CY	10,134,590
				03.20 Cast-In-Place Concrete, Straight Walls	6,050.00 CY	1,675.14 /CY	10,134,590
				03.0 Concrete Work	21,725.00 CY	1,051.40 /CY	22,841,673
	31.0			Earthwork			
		31.20		Earthworks, Site			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			2215.014	U-Channel	264,300.00 CY	15.75 /CY	4,162,962
				31.20 Earthworks, Site	264,300.00 CY	15.75 /CY	4,162,962
				31.0 Earthwork	264,300.00 CY	15.75 /CY	4,162,962
				2215.14 U-Channel	*2,324.00* LF	11,619.89 /LF	27,004,635
2215.16				Access Road and Parking			
	32.0			Exterior Improvements			
		31.40		Paving			
			2215.016	Access Road and Parking	10,800.00 SY	70.21 /SY	758,317
				31.40 Paving	10,800.00 SY	70.21 /SY	758,317
				32.0 Exterior Improvements	*1.00* LS	758,316.69 /LS	758,317
				2215.16 Access Road and Parking	10,800.00 SY	70.21 /SY	758,317
2215.18				Earthen Channel			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			2215.018	Earthen Channel	*340.00* LF	2,338.42 /LF	795,064
				31.20 Earthworks, Site	32,920.00 CY	24.15 /CY	795,064
				31.0 Earthwork	32,920.00 CY	24.15 /CY	795,064
				2215.18 Earthen Channel	*340.00* LF	2,338.42 /LF	795,064
2215.20				Siphon			
	33.0			Utilities			
		33.10		Buried Piping			
			2215.020	Siphon	330.00 LF	4,938.30 /LF	1,629,638
				33.10 Buried Piping	330.00 LF	4,938.30 /LF	1,629,638
				33.0 Utilities	330.00 LF	4,938.30 /LF	1,629,638
				2215.20 Siphon	330.00 LF	4,938.30 /LF	1,629,638
2215.22				Lateral Canal			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			2215.022	Lateral Canal	*820.00* LF	650.68 /LF	533,555
				31.20 Earthworks, Site	22,080.00 CY	24.16 /CY	533,555
				31.0 Earthwork	22,080.00 CY	24.16 /CY	533,555
				2215.22 Lateral Canal	*820.00* LF	650.68 /LF	533,555

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	71,368,253		496,920.434	
Material	30,232,667			
Subcontractor	3,092,503			
Equipment	99,581,346		288,950.824	
Other				
Subtotal w/ Prime Markups	**204,274,769**	**204,274,769**		
Contratcor Contingency	6,128,243			3.000 %
Design Contingency	36,769,458			18.000 %
Opinion of Probable Construction Costs	**42,897,701**	**247,172,470**		

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Detail Report
Project Name: TRR Reservoir (MARCH 2024 Costs)
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R02 - 04/14/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
2215.01					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.00.700		TRR Reservoir, Dewatering/Erosion Controls/Dust Abatement											
				01.01.05.00	General Conditions, Other											
					TRR Reservoir, Dewatering/Erosion Controls/Dust Abatement Allowance	24.00 MO		360,000	360,000	-	720,000	-	60,000.00 /MO	1,440,000	75,010.70 /MO	1,800,257
					01.01.05.00 General Conditions, Other	24.00 MO		360,000	360,000		720,000		60,000.00 /MO	1,440,000	75,010.70 /MO	1,800,257
					01.00.700 TRR Reservoir, Dewatering/Erosion Controls/Dust Abatement	**24.00 MO**		**360,000**	**360,000**		**720,000**		**60,000.00 /MO**	**1,440,000**	**75,010.70 /MO**	**1,800,257**
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	97.84 /ea	9,784
					Miscellaneous Health & Safety Programs	1.00 ls			150,000	-	-	0	150,000.00 /ls	150,000	195,682.98 /ls	195,683
					Project Environmental Requirements	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	97,841.51 /ls	97,842
					01.01.05.00 General Conditions, Other	*24.00* MO			232,500				9,687.50 /MO	232,500	12,637.86 /MO	303,309
					01.I5.000 General Conditions, Other	***1.00*** **LS**			**232,500**				**232,500.00 /LS**	**232,500**	**303,308.65 /LS**	**303,309**
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Executive	12.00 mo	1,920	374,400	-	-	-	-	31,200.00 /mo	374,400	38,440.06 /mo	461,281
					Assist Project Manager	24.00 mo	3,840	599,040	-	-	-	-	24,960.00 /mo	599,040	30,752.05 /mo	738,049
					Project Manager	24.00 MO	3,840	599,040	-	-	-	-	24,960.00 /MO	599,040	30,752.05 /MO	738,049
					Superintendent	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	23,655.42 /mo	567,730
					Asst Superintendent (2)	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	23,655.42 /mo	567,730
					Project Engineer	24.00 mo	3,840	441,600	-	-	-	-	18,400.00 /mo	441,600	22,669.78 /mo	544,075
					Field Engineer (4)	48.00 mo	7,680	729,600	-	-	-	-	15,200.00 /mo	729,600	18,727.21 /mo	898,906
					Admin Asst.	24.00 mo	3,840	249,600	-	-	-	-	10,400.00 /mo	249,600	12,813.35 /mo	307,521
					Scheduling Manager	24.00 mo	3,840	445,440	-	-	-	-	18,560.00 /mo	445,440	22,866.91 /mo	548,806
					Assistant Safety Manager	24.00 mo	3,840	576,000	-	-	-	-	24,000.00 /mo	576,000	29,569.28 /mo	709,663
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	29,569.28 /mo	354,831
					Site Skilled Labor (4)	48.00 mo	7,680	844,800	-	-	-	-	17,600.00 /mo	844,800	21,684.14 /mo	1,040,839
					01.01.06.01 GC Labor	24.00 MO	49,920	6,069,120					252,880.00 /MO	6,069,120	311,561.63 /MO	7,477,479
					01.I5.005 GC Labor	***1.00*** **LS**	**49,920**	**6,069,120**					**6,069,120.00 /LS**	**6,069,120**	**7,477,479.17 /LS**	**7,477,479**
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,913.65 /ea	3,914
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	652.28 /mo	15,655
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,045.53 /ea	13,046
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	652.28 /mo	15,655
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,170.45 /mo	28,091
					Field Office Demob	2.00 ea	120	12,928	-		-	-	6,464.04 /ea	12,928	7,964.05 /ea	15,928
					Field Office Tear Down	2.00 ea	240	25,856	-		-	-	12,928.08 /ea	25,856	15,928.09 /ea	31,856
					Field Office Set-up	2.00 ea	360	38,784	-		21,600	-	30,192.12 /ea	60,384	37,198.30 /ea	74,397
					Field Office Mob	2.00 ea	120	12,928	-	0	-	-	6,464.04 /ea	12,928	7,964.04 /ea	15,928
					Conference Trailer Rent	24.00 mo		-	45,000	-	-	-	1,875.00 /mo	45,000	2,446.04 /mo	58,705
					Field Office Trailer Rent (60 x 12) (3)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,282.97 /mo	109,582
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,011.04 /ea	2,022
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	978.42 /mo	46,964
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,304.55 /ea	1,305
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	71,750.42 /ea	71,750
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,568.29 /ea	19,568
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	84,795.98 /ea	84,796
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	189.16 /mo	4,540
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,568.29 /ea	19,568
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,250.35 /mo	54,009
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	456.59 /mo	10,958
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,717.98 /mo	89,231
					01.01.06.00 Project Office	***1.00*** LS	840	90,497	476,230		44,400		611,126.56 /LS	611,127	787,467.16 /LS	787,467
					01.I5.010 Jobsite Office	***1.00*** **LS**	**840**	**90,497**	**476,230**		**44,400**		**611,126.56 /LS**	**611,127**	**787,467.16 /LS**	**787,467**
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Temporary offsite Parking and Laydown Area @ 17,250 per month	24.00 mo		-	414,000		-	-	17,250.00 /mo	414,000	22,503.54 /mo	540,085
					Temporary bussing of workers to site - 3 buses, 2 trips per day	24.00 mo		-	745,200		-	-	31,050.00 /mo	745,200	40,506.38 /mo	972,153
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.79 /sy	70,309
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.79 /sy	4,394
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.79 /sy	8,789
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.49 /lf	23,179
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,812.95 /ea	11,626
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,778.43 /ea	9,557
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	4,957.30 /MO	118,975
					Guard Shack - Rent (2)	48.00 mo		-	57,600	-	-	-	1,200.00 /mo	57,600	1,565.46 /mo	75,142
					Site Security Services	24.00 mo		539,760	-		-	-	22,490.00 /mo	539,760	27,708.88 /mo	665,013
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	469.64 /ea	46,964
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	517	598,819	1,373,400		13,584		82,741.78 /MO	1,985,803	106,091.09 /MO	2,546,186
					01.I5.011 Temporary Facilities	***1.00*** **LS**	**517**	**598,819**	**1,373,400**		**13,584**		**1,985,802.69 /LS**	**1,985,803**	**2,546,186.21 /LS**	**2,546,186**
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	204,000	-	-	-	8,500.00 /MO	204,000	11,088.70 /MO	266,129
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,522.77 /ls	6,523
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	465.91 /mo	11,182
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,306.91 /ls	16,307
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,053.42 /mo	49,282
					Hand Washing Station (3)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	208.73 /mo	10,019
					Portable Toilets (3)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	489.21 /mo	23,482
					Janitorial Service (3)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	619.66 /mo	29,744

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Detail Report
Project Name: TRR Reservoir (MARCH 2024 Costs)
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R02 - 04/14/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	**01.01.06.02 GC Temporary Facilities & Services**	**24.00 MO**		**40,000**	**278,551**				**13,272.98 /MO**	**318,551**	**17,194.47 /MO**	**412,667**
					01.I5.012 Temporary Services	***1.00* LS**		**40,000**	**278,551**				**318,551.45 /LS**	**318,551**	**412,667.32 /LS**	**412,667**
			01.I5.013		**Travel**											
				01.01.06.02	**GC Temporary Facilities & Services**											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	132.00 mo		-	428,670	-	-		3,247.50 /mo	428,670	4,236.54 /mo	559,223
					Construction Delivery - Air Fare (mgmt 1 flight per month)	132.00 ea		-	49,500	-	-	0	375.00 /ea	49,500	489.21 /ea	64,575
					Business travel - Air Fare	132.00 ea		-	72,600	-	-	0	550.00 /ea	72,600	717.50 /ea	94,711
					Business travel - Hotel	240.00 day		-	32,400	-	-	0	135.00 /day	32,400	176.11 /day	42,268
					Business travel - Rental Car	240.00 day		-	18,000	-	-	0	75.00 /day	18,000	97.84 /day	23,482
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	132.00 mo		-	594,000	-	-		4,500.00 /mo	594,000	5,870.49 /mo	774,905
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,870.49 /MO	140,892
					Personnel moving expense for 4 GC Management Staff	6.00 EA		-	33,000	-	-		5,500.00 /EA	33,000	7,175.04 /EA	43,050
					Personnel moving expense for 8 specialty workers	16.00 EA		-	80,000	-	-		5,000.00 /EA	80,000	6,522.77 /EA	104,364
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**			**1,416,170**				**59,007.08 /MO**	**1,416,170**	**76,977.88 /MO**	**1,847,469**
					01.I5.013 Travel	***1.00* LS**			**1,416,170**				**1,416,170.00 /LS**	**1,416,170**	**1,847,469.22 /LS**	**1,847,469**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	**GC Temporary Facilities & Services**											
					Office Daily Cleaning up	104.00 wk	1,040	93,879	-	-	-	-	902.68 /wk	93,879	1,112.15 /wk	115,664
					Jobiste Daily Cleaning up	104.00 wk	2,080	187,757	16,640	-	-	-	1,965.36 /wk	204,397	2,433.03 /wk	253,035
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,565.46 /MO	37,571
					Dumpster Pulls	104.00 ea		-	80,600	-	-	-	775.00 /ea	80,600	1,011.03 /ea	105,147
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	37,635.66 /ls	37,636
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**	**3,720**	**309,536**	**128,540**				**18,253.17 /MO**	**438,076**	**22,877.18 /MO**	**549,052**
					01.I5.014 Site Cleanup	***1.00* LS**	**3,720**	**309,536**	**128,540**				**438,076.16 /LS**	**438,076**	**549,052.31 /LS**	**549,052**
			01.I5.014A		**Site Safety**											
				01.01.06.02	**GC Temporary Facilities & Services**											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,227.68 /ls	65,228
					Site Safety Training - non productive time	24.00 MO	10,920	985,727		-	-	-	41,071.94 /MO	985,727	50,602.82 /MO	1,214,468
					First Aid Consumables	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	652.28 /mo	15,655
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**	**10,920**	**985,727**	**62,000**				**43,655.27 /MO**	**1,047,727**	**53,972.92 /MO**	**1,295,350**
					01.I5.014A Site Safety	***1.00* LS**	**10,920**	**985,727**	**62,000**				**1,047,726.56 /LS**	**1,047,727**	**1,295,349.96 /LS**	**1,295,350**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	**GC Equip, Tools, & Consumables**											
					Staff Vehicles (4)	96.00 mo		-	-	-	77,952	-	812.00 /mo	77,952	1,000.43 /mo	96,041
					Yard Pickup Truck (4)	96.00 mo		-		-	77,952	-	812.00 /mo	77,952	1,000.43 /mo	96,041
					Staff Vehicle Fuel	96.00 mo		-	840,000	-		-	8,750.00 /mo	840,000	11,414.84 /mo	1,095,825
					Water Truck	24.00 mo		-	15,000	-	60,000	-	3,125.00 /mo	75,000	3,895.48 /mo	93,492
					Site Storage Connex boxes	5.00 ea		-	3,750	-	-	-	750.00 /ea	3,750	978.41 /ea	4,892
					Small Tools (~0.5% Labor)	1.00 ls		-	250,000	-	-	-	250,000.00 /ls	250,000	326,138.33 /ls	326,138
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	326.14 /MO	7,827
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	130.46 /mo	3,131
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,479.60 /ea	8,480
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00* LS**			**1,123,650**		**215,904**		**1,339,554.00 /LS**	**1,339,554**	**1,731,866.51 /LS**	**1,731,867**
					01.I5.015 GC Equip, Tools, & Consumables	***1.00* LS**			**1,123,650**		**215,904**		**1,339,554.00 /LS**	**1,339,554**	**1,731,866.51 /LS**	**1,731,867**
			01.I5.016		**Material Handling**											
				01.01.06.03	**GC Equip, Tools, & Consumables**											
					150 tn Crawler, with Operator	24.00 MO	4,160	541,746	559,920	-	476,280	-	65,747.77 /MO	1,577,946	82,696.18 /MO	1,984,708
					Crane setup and removal	4.00 ea	180	23,441	6,000		35,622	-	16,265.63 /ea	65,063	20,148.86 /ea	80,595
					Crane Pads and Removal (5 m x 5 m)	4.00 ea	240	31,254	26,826		15,832	-	18,478.00 /ea	73,912	23,252.10 /ea	93,008
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00* LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,158,312.08 /LS**	**2,158,312**
					01.I5.016 Material Handling	***1.00* LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,158,312.08 /LS**	**2,158,312**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	**GC Indirect Services & Support**											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,333.02 /ea	16,333
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	358.75 /ea	7,175
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	456.59 /MO	10,958
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	32,613.83 /ea	32,614
					Miscellaneous third party testing and inspections	1.00 ls		250,000	-	0	-	-	250,000.00 /ls	250,000	308,013.32 /ls	308,013
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,508.03 /day	188,504
					01.01.06.04 GC Indirect Services & Support	**24.00 MO**	**1,000**	**345,000**	**51,420**		**58,000**		**18,934.17 /MO**	**454,420**	**23,483.23 /MO**	**563,598**
					01.I5.020 GC Indirect Services & Support	***1.00* LS**	**1,000**	**345,000**	**51,420**		**58,000**		**454,420.00 /LS**	**454,420**	**563,597.61 /LS**	**563,598**
			01.I6.000		**Quality Control**											
				01-01-06-01	**GC Labor**											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	24,558.46 /MO	589,403
					Quality Mgr. (3)	24.00 mo	4,160	665,587	-	-	-	-	27,732.80 /mo	665,587	34,168.29 /mo	820,039
					01-01-06-01 GC Labor	**24.00 MO**	**8,320**	**1,143,978**					**47,665.75 /MO**	**1,143,978**	**58,726.74 /MO**	**1,409,442**
					01.I6.000 Quality Control	***1.00* LS**	**8,320**	**1,143,978**					**1,143,978.00 /LS**	**1,143,978**	**1,409,441.83 /LS**	**1,409,442**
					01.01 Construction Operations	***24.00* MO**	**79,817**	**10,539,117**	**6,095,207**		**1,579,622**		**758,914.43 /MO**	**18,213,946**	**953,435.61 /MO**	**22,882,455**
					01.0 General Requirements	***24.00* MO**	**79,817**	**10,539,117**	**6,095,207**		**1,579,622**		**758,914.43 /MO**	**18,213,946**	**953,435.61 /MO**	**22,882,455**
					2215.01 General Conditions	***1.00* LS**	**79,817**	**10,539,117**	**6,095,207**		**1,579,622**		**18,213,946.30 /LS**	**18,213,946**	**22,882,454.74 /LS**	**22,882,455**
2215.02					**Reservoir Excavation**											
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			2215.002		**Reservoir Excavation**											
				31.20.07.10	**Earthworks, Sitework, Excavating Bulk Measure**											
					Final Grading	424,900.00 sy	6,798	734,329	-	-	472,924	-	2.84 /sy	1,207,253	3.50 /sy	1,487,400
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 10% excavation Volume	590,000.00 CY	19,667	2,175,340	-	-	2,110,912	-	7.26 /CY	4,286,252	8.95 /CY	5,280,890
					Excavating, large volume projects, 200,000 plus B.C.Y., 6 C.Y. bucket, excavator, 100% fill factor, with truck loading	5,279,000.00 CY	63,348	7,421,134	-	-	20,698,326	-	5.33 /CY	28,119,459	6.56 /CY	34,644,672
					Load excavated spoils	5,869,000.00 cy	70,428	8,250,546		-	23,011,645	-	5.33 /cy	31,262,191	6.56 /cy	38,516,685

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,20 mph,exclds loadng eqpmnt	5,869,000.00 lcy	85,993	8,529,097	-	-	23,317,516	-	5.43 /lcy	31,846,613	6.69 /lcy	39,236,724
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	5,869,000.00 CY	246,234	27,110,446			69,611,321		16.48 /CY	96,721,768	20.30 /CY	119,166,371
				31.20.09.50	Earthworks, Sitework, Stockpile Site											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	5,869,000.00 lcy	58,690	6,672,290	-	-	6,896,344	-	2.31 /lcy	13,568,634	2.85 /lcy	16,717,280
					31.20.09.50 Earthworks, Sitework, Stockpile Site	5,869,000.00 lcy	58,690	6,672,290			6,896,344		2.31 /lcy	13,568,634	2.85 /lcy	16,717,280
					2215.002 Reservoir Excavation	**5,869,000.00 CY**	**304,924**	**33,782,736**			**76,507,666**		**18.79 /CY**	**110,290,402**	**23.15 /CY**	**135,883,651**
					31.20 Earthworks, Site	5,869,000.00 CY	304,924	33,782,736			76,507,666		18.79 /CY	110,290,402	23.15 /CY	135,883,651
					31.0 Earthwork	5,869,000.00 CY	304,924	33,782,736			76,507,666		18.79 /CY	110,290,402	23.15 /CY	135,883,651
					2215.02 Reservoir Excavation	**5,869,000.00 CY**	**304,924**	**33,782,736**			**76,507,666**		**18.79 /CY**	**110,290,402**	**23.15 /CY**	**135,883,651**
2215.04					**Service Road**											
	32.0				Exterior Improvements											
		32.12			Paving											
			2215.004		**Service Road**											
				32.40.04.90	Site Improvements, Access Roads, Asphalt											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	13,300.00 sy	133	14,366	-	-	9,252	-	1.78 /sy	23,618	2.19 /sy	29,099
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,8"deep	13,300.00 sy	378	41,435	175,560	-	29,237	-	18.51 /sy	246,232	23.77 /sy	316,099
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	13,300.00 sy	91	10,368	-	-	6,282	-	1.25 /sy	16,651	1.54 /sy	20,515
					Plant-mix asphalt paving, for highways and large paved areas, 4" thick	13,300.00 SY	283	28,443	399,000	-	10,211	-	32.91 /SY	437,654	42.72 /SY	568,141
					32.40.04.90 Site Improvements, Access Roads, Asphalt	13,300.00 SY	885	94,612	574,560		54,983		54.45 /SY	724,155	70.21 /SY	933,853
				32.45.01.00	Fencing, Chain Link											
					Fence,chain link industrial,galvanized steel,3 strands barb wire,2"posts @ 10'oc,9ga wire,6'high,schedule 40,includes excavation,& concrete	6,000.00 LF	600	56,150	135,000	-	10,561	-	33.62 /LF	201,711	43.05 /LF	258,306
					32.45.01.00 Fencing, Chain Link	6,000.00 LF	600	56,150	135,000		10,561		33.62 /LF	201,711	43.05 /LF	258,306
					2215.004 Service Road	**13,300.00 SY**	**1,485**	**150,762**	**709,560**		**65,544**		**69.61 /SY**	**925,866**	**89.64 /SY**	**1,192,159**
					32.12 Paving	13,300.00 SY	1,485	150,762	709,560		65,544		69.61 /SY	925,866	89.64 /SY	1,192,159
					32.0 Exterior Improvements	*1.00* LS	1,485	150,762	709,560		65,544		925,865.88 /LS	925,866	1,192,159.19 /LS	1,192,159
					2215.04 Service Road	**13,300.00 SY**	**1,485**	**150,762**	**709,560**		**65,544**		**69.61 /SY**	**925,866**	**89.64 /SY**	**1,192,159**
2215.05					**Gunite V-Ditch**											
	32.0				Exterior Improvements											
		32.12			Paving											
			2215.005		**Gunite V-Ditch**											
				32.40.05.00	Site Improvements, Gunite V-Ditch											
					Fine grading, for V-Ditch	2,300.00 SY	23	2,484	-	-	1,600	-	1.78 /SY	4,084	2.19 /SY	5,032
					Gunite V-Ditch	380.00 cy	192	18,384	70,300	-	2,705	-	240.50 /cy	91,388	309.72 /cy	117,692
					32.40.05.00 Site Improvements, Gunite V-Ditch	2,300.00 SY	215	20,868	70,300		4,305		41.51 /SY	95,473	53.36 /SY	122,724
					2215.005 Gunite V-Ditch	**2,300.00 SY**	**215**	**20,868**	**70,300**		**4,305**		**41.51 /SY**	**95,473**	**53.36 /SY**	**122,724**
					32.12 Paving	2,300.00 SY	215	20,868	70,300		4,305		41.51 /SY	95,473	53.36 /SY	122,724
					32.0 Exterior Improvements	*1.00* LS	215	20,868	70,300		4,305		95,472.73 /LS	95,473	122,724.23 /LS	122,724
					2215.05 Gunite V-Ditch	**2,300.00 SY**	**215**	**20,868**	**70,300**		**4,305**		**41.51 /SY**	**95,473**	**53.36 /SY**	**122,724**
2215.06					**PGP and Dissipation Structure Concrete Aprons**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			2215.006		**PGP and Dissipation Structure Concrete Aprons**											
				03.10.05.16	Cast-In-Place Concrete, Slabs on Grade, 16" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	2,700.00 sfca	266	27,742	2,619	-	-	-	11.24 /sfca	30,361	16.17 /sfca	43,668
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	883.00 ton	14,128	1,653,004	1,324,500	-	-	-	3,372.03 /ton	2,977,504	4,937.68 /ton	4,359,971
					Reinforcing in place, unloading & sorting, add to above - slabs	883.00 ton	494	58,945	-	-	20,475	-	89.94 /ton	79,420	128.80 /ton	113,734
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	883.00 ton	537	64,071	-	-	22,255	-	97.76 /ton	86,326	140.00 /ton	123,624
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	12,123.00 cy		-	2,667,060	-	-	-	220.00 /cy	2,667,060	331.00 /cy	4,012,734
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	11,770.00 CY	4,072	389,869	-	-	57,356	-	38.00 /CY	447,225	54.41 /CY	640,450
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	110,160.00 sf	1,542	140,636	-	-	5,608	-	1.33 /sf	146,244	1.90 /sf	209,429
					Curing, sprayed membrane curing compound	1,101.60 csf	186	16,883	13,715	-	-	-	27.78 /csf	30,598	40.68 /csf	44,812
					Fine grading, fine grade for slab on grade, machine	12,240.00 sy	188	20,340	-	-	13,099	-	2.73 /sy	33,439	3.91 /sy	47,887
					03.10.05.16 Cast-In-Place Concrete, Slabs on Grade, 16" thick	11,770.00 CY	21,413	2,371,490	4,007,894		118,793		552.10 /CY	6,498,177	815.32 /CY	9,596,308
					2215.006 PGP and Dissipation Structure Concrete Aprons	**11,770.00 CY**	**21,413**	**2,371,490**	**4,007,894**		**118,793**		**552.10 /CY**	**6,498,177**	**815.32 /CY**	**9,596,308**
					03.18 Cast-In-Place Concrete, Slabs on Grade	11,770.00 CY	21,413	2,371,490	4,007,894		118,793		552.10 /CY	6,498,177	815.32 /CY	9,596,308
					03.0 Concrete Work	11,770.00 CY	21,413	2,371,490	4,007,894		118,793		552.10 /CY	6,498,177	815.32 /CY	9,596,308
	31.0				Earthwork											
		31.20			Earthworks, Site											
			2215.0061		**PGP and Dissipation Structure Concrete Aprons - Earthwork**											
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering	8,800.00 CY	220	24,334	-	-	23,614	-	5.45 /CY	47,948	6.71 /CY	59,075
					Load excavated spoils	8,800.00 cy	66	7,503		-	6,656	-	1.61 /cy	14,159	1.98 /cy	17,445
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,20 mph,exclds loadng eqpmnt	8,800.00 lcy	129	12,789	-	-	34,962	-	5.43 /lcy	47,751	6.69 /lcy	58,832
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	8,800.00 CY	415	44,626			65,232		12.48 /CY	109,858	15.38 /CY	135,351
				31.20.09.50	Earthworks, Sitework, Stockpile Site											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	8,800.00 lcy	88	10,004	-	-	10,340	-	2.31 /lcy	20,345	2.85 /lcy	25,066
					31.20.09.50 Earthworks, Sitework, Stockpile Site	8,800.00 lcy	88	10,004			10,340		2.31 /lcy	20,345	2.85 /lcy	25,066
					2215.0061 PGP and Dissipation Structure Concrete Aprons - Earthwork	**8,800.00 CY**	**503**	**54,631**			**75,572**		**14.80 /CY**	**130,203**	**18.23 /CY**	**160,417**
					31.20 Earthworks, Site	8,800.00 CY	503	54,631			75,572		14.80 /CY	130,203	18.23 /CY	160,417

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.0 Earthwork	8,800.00 CY	503	54,631			75,572		14.80 /CY	130,203	18.23 /CY	160,417
	33.0				Utilities											
		33.05			Buried Process Pipe, PVC/CPVC											
			2215.0062		PGP and Dissipation Structure Concrete Aprons - Underdrain											
				33.00.01.50	Buried Pipe, Underdrain System											
					Fill, drain rock fill, under floor slabs, alternate pricing method, 6" deep	8,980.00 cy	2,694	271,588	345,730	-	56,160	-	75.00 /cy	673,478	95.19 /cy	854,826
					12" PVC perforated pipe, subdrainage system/foundation drain	510.00 LF	77	7,422	7,650	-	451	-	30.44 /LF	15,523	38.59 /LF	19,680
					Miscellaneous Items and Consumables	1.00 ls	48	4,657	2,500	-	283	-	7,439.96 /ls	7,440	9,347.68 /ls	9,348
					33.00.01.50 Buried Pipe, Underdrain System	510.00 LF	2,819	283,667	355,880		56,893		1,365.57 /LF	696,441	1,733.05 /LF	883,853
					2215.0062 PGP and Dissipation Structure Concrete Aprons - Underdrain	510.00 LF	2,819	283,667	355,880		56,893		1,365.57 /LF	696,441	1,733.05 /LF	883,853
					33.05 Buried Process Pipe, PVC/CPVC	510.00 LF	2,819	283,667	355,880		56,893		1,365.57 /LF	696,441	1,733.05 /LF	883,853
					33.0 Utilities	510.00 LF	2,819	283,667	355,880		56,893		1,365.57 /LF	696,441	1,733.05 /LF	883,853
					2215.06 PGP and Dissipation Structure Concrete Aprons	*1.00* LS	24,734	2,709,788	4,363,774		251,258		7,324,820.27 /LS	7,324,820	10,640,577.80 /LS	10,640,578
2215.12					Preloading, Surcharge Earthfill											
	31.0				Earthwork											
		31.20			Earthworks, Site											
			2215.012		Preloading, Surcharge Earthfill											
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Remove Preloading Fill	22,500.00 cy	1,313	132,315		-	46,904	-	7.97 /cy	179,219	9.81 /cy	220,808
					Load excavated spoils	22,500.00 cy	169	19,185		-	17,017	-	1.61 /cy	36,202	1.98 /cy	44,603
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 2 mile,25 mph,exclds loadng eqpmnt	22,500.00 CY	375	37,194	-	-	101,684	-	6.17 /CY	138,878	7.60 /CY	171,105
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	22,500.00 CY	1,856	188,694			165,605		15.75 /CY	354,299	19.40 /CY	436,516
				31.20.09.50	Earthworks, Sitework, Stockpile Site											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	22,500.00 lcy	225	25,580	-	-	26,439	-	2.31 /lcy	52,018	2.85 /lcy	64,089
					31.20.09.50 Earthworks, Sitework, Stockpile Site	22,500.00 lcy	225	25,580			26,439		2.31 /lcy	52,018	2.85 /lcy	64,089
				31.41.01.00	Site Specialties, Site Preloading Surcharge											
					Fill, for Perloading, Placed	22,500.00 Cy	1,313	132,315		-	46,904	-	7.97 /Cy	179,219	9.81 /Cy	220,808
					Compaction, water for, 3000 gallon truck, 3 mile haul	22,500.00 cy	180	20,180		-	10,478	-	1.36 /cy	30,658	1.68 /cy	37,772
					Vertical Drains	140,200.00 lf				1,682,400		-	12.00 /lf	1,682,400	14.78 /lf	2,072,806
					31.41.01.00 Site Specialties, Site Preloading Surcharge	22,500.00 Cy	1,493	152,495		1,682,400	57,382		84.10 /Cy	1,892,277	103.62 /Cy	2,331,386
					2215.012 Preloading, Surcharge Earthfill	22,500.00 CY	3,574	366,769		1,682,400	249,426		102.16 /CY	2,298,595	125.87 /CY	2,831,991
					31.20 Earthworks, Site	22,500.00 CY	3,574	366,769		1,682,400	249,426		102.16 /CY	2,298,595	125.87 /CY	2,831,991
					31.0 Earthwork	22,500.00 CY	3,574	366,769		1,682,400	249,426		102.16 /CY	2,298,595	125.87 /CY	2,831,991
					2215.12 Preloading, Surcharge Earthfill	22,500.00 CY	3,574	366,769		1,682,400	249,426		102.16 /CY	2,298,595	125.87 /CY	2,831,991
2215.14					U-Channel											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			2215.014		U-Channel											
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	4,600.00 sfca	452	47,264	4,462	-	-	-	11.24 /sfca	51,726	16.17 /sfca	74,397
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1,175.00 ton	18,800	2,199,638	1,762,500	-	-	-	3,372.03 /ton	3,962,138	4,937.68 /ton	5,801,773
					Reinforcing in place, unloading & sorting, add to above - slabs	1,175.00 ton	658	78,438	-	-	27,245	-	89.94 /ton	105,683	128.80 /ton	151,344
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	16,458.75 cy		-	3,620,925	-	-	-	220.00 /cy	3,620,925	331.00 /cy	5,447,875
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	15,675.00 CY	5,423	519,218	-	-	76,385	-	38.00 /CY	595,603	54.41 /CY	852,935
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&vln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	136,800.00 sf	1,914	174,646	-	-	6,965	-	1.33 /sf	181,610	1.90 /sf	260,075
					Curing, sprayed membrane curing compound	1,410.00 csf	237	21,609	17,555	-	-	-	27.78 /csf	39,164	40.68 /csf	57,357
					Fine grading, fine grade for slab on grade, machine	15,675.00 sy	241	26,048	-	-	16,776	-	2.73 /sy	42,824	3.91 /sy	61,326
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	15,675.00 CY	27,726	3,066,861	5,405,442		127,370		548.62 /CY	8,599,672	810.66 /CY	12,707,083
					2215.014 U-Channel	15,675.00 CY	27,726	3,066,861	5,405,442		127,370		548.62 /CY	8,599,672	810.66 /CY	12,707,083
					03.18 Cast-In-Place Concrete, Slabs on Grade	15,675.00 CY	27,726	3,066,861	5,405,442		127,370		548.62 /CY	8,599,672	810.66 /CY	12,707,083
		03.20			Cast-In-Place Concrete, Straight Walls											
			2215.014		U-Channel											
				03.10.06.24	Cast-In-Place Concrete, Straight Walls, 24" thick											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	163,360.00 sfca	17,233	1,836,384	890,312	-	-	-	16.69 /sfca	2,726,696	24.30 /sfca	3,969,321
					Form oil, coverage varies greatly, maximum, includes material only	432.00 gal		-	11,880	-	-	-	27.50 /gal	11,880	41.38 /gal	17,874
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	605.00 ton	9,680	1,132,579	907,500	-	-	-	3,372.03 /ton	2,040,079	4,937.68 /ton	2,987,296
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	605.00 ton	339	40,387	-	-	14,028	-	89.94 /ton	54,416	128.80 /ton	77,926
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	605.00 ton	368	43,899	-	-	15,248	-	97.76 /ton	59,148	140.00 /ton	84,702
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	6,352.50 cy		-	1,397,550	-	-	-	220.00 /cy	1,397,550	331.00 /cy	2,102,688
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	6,050.00 CY	3,227	308,950	-	-	45,451	-	58.58 /CY	354,401	83.89 /CY	507,522
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	163,360.00 sf	2,904	265,274	4,901	-	-	-	1.65 /sf	270,175	2.37 /sf	387,260
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	6,050.00 CY	33,751	3,627,474	3,212,143		74,728		1,142.87 /CY	6,914,344	1,675.14 /CY	10,134,590
					2215.014 U-Channel	6,050.00 CY	33,751	3,627,474	3,212,143		74,728		1,142.87 /CY	6,914,344	1,675.14 /CY	10,134,590
					03.20 Cast-In-Place Concrete, Straight Walls	6,050.00 CY	33,751	3,627,474	3,212,143		74,728		1,142.87 /CY	6,914,344	1,675.14 /CY	10,134,590
					03.0 Concrete Work	21,725.00 CY	61,477	6,694,334	8,617,584		202,098		714.11 /CY	15,514,017	1,051.40 /CY	22,841,673
	31.0				Earthwork											
		31.20			Earthworks, Site											
			2215.014		U-Channel											
				01.01.05.01	General Conditions, Other											
					Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.75 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	15,000.00 CY	1,091	108,205	-	-	99,398	-	13.84 /CY	207,603	17.05 /CY	255,778

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					01.01.05.01 General Conditions, Other	**15,000.00 CY**	**1,091**	**108,205**			**99,398**		**13.84 /CY**	**207,603**	**17.05 /CY**	**255,778**
				31.20.07.10	**Earthworks, Sitework, Excavating Bulk Measure**											
					Subgrade Prep and Final Grading of U-Channel Bottom and Slopes	15,111.11 sy	504	54,408	-	-	35,040	-	5.92 /sy	89,447	7.29 /sy	110,204
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering	165,000.00 CY	4,125	456,270	-	-	442,755	-	5.45 /CY	899,025	6.71 /CY	1,107,647
					Load excavated spoils	165,000.00 cy	1,238	140,688		-	124,794	-	1.61 /cy	265,483	1.98 /cy	327,089
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 2 mile,25 mph,exclds loadng eqpmnt	80,700.00 cy	1,345	133,402	-	-	364,706	-	6.17 /cy	498,109	7.60 /cy	613,696
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	**165,000.00 CY**	**7,211**	**784,768**			**967,295**		**10.62 /CY**	**1,752,064**	**13.08 /CY**	**2,158,636**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Fill, native fill, Screened and Placed	84,300.00 CY	4,918	495,742	421,500	-	175,734	-	12.97 /CY	1,092,976	16.34 /CY	1,377,163
					Compaction, water for, 3000 gallon truck, 3 mile haul	84,300.00 cy	674	75,606		-	39,258	-	1.36 /cy	114,864	1.68 /cy	141,519
					31.20.09.10 Earthworks, Sitework, Backfill	**84,300.00 CY**	**5,592**	**571,348**	**421,500**		**214,992**		**14.33 /CY**	**1,207,840**	**18.02 /CY**	**1,518,682**
				31.20.09.50	**Earthworks, Sitework, Stockpile Site**											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	80,700.00 lcy	807	91,745	-	-	94,826	-	2.31 /lcy	186,572	2.85 /lcy	229,866
					31.20.09.50 Earthworks, Sitework, Stockpile Site	**80,700.00 lcy**	**807**	**91,745**			**94,826**		**2.31 /lcy**	**186,572**	**2.85 /lcy**	**229,866**
					2215.014 U-Channel	**264,300.00 CY**	**14,701**	**1,556,067**	**421,500**		**1,376,512**		**12.69 /CY**	**3,354,078**	**15.75 /CY**	**4,162,962**
					31.20 Earthworks, Site	**264,300.00 CY**	**14,701**	**1,556,067**	**421,500**		**1,376,512**		**12.69 /CY**	**3,354,078**	**15.75 /CY**	**4,162,962**
					31.0 Earthwork	**264,300.00 CY**	**14,701**	**1,556,067**	**421,500**		**1,376,512**		**12.69 /CY**	**3,354,078**	**15.75 /CY**	**4,162,962**
					2215.14 U-Channel	***2,324.00* LF**	**76,178**	**8,250,401**	**9,039,084**		**1,578,610**		**8,118.80 /LF**	**18,868,095**	**11,619.89 /LF**	**27,004,635**
2215.16					**Access Road and Parking**											
	32.0				**Exterior Improvements**											
		31.40			**Paving**											
			2215.016		**Access Road and Parking**											
				32.40.04.90	**Site Improvements, Access Roads, Asphalt**											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	10,800.00 sy	108	11,666	-	-	7,513	-	1.78 /sy	19,179	2.19 /sy	23,629
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base	10,800.00 sy	307	33,647	142,560	-	23,741	-	18.51 /sy	199,948	23.77 /sy	256,682
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	10,800.00 sy	74	8,419	-	-	5,102	-	1.25 /sy	13,521	1.54 /sy	16,658
					Plant-mix asphalt paving, for highways and large paved areas, 4" thick	10,800.00 SY	230	23,097	324,000	-	8,292	-	32.91 /SY	355,388	42.72 /SY	461,347
					32.40.04.90 Site Improvements, Access Roads, Asphalt	**10,800.00 SY**	**719**	**76,828**	**466,560**		**44,648**		**54.45 /SY**	**588,036**	**70.21 /SY**	**758,317**
					2215.016 Access Road and Parking	**10,800.00 SY**	**719**	**76,828**	**466,560**		**44,648**		**54.45 /SY**	**588,036**	**70.21 /SY**	**758,317**
					31.40 Paving	**10,800.00 SY**	**719**	**76,828**	**466,560**		**44,648**		**54.45 /SY**	**588,036**	**70.21 /SY**	**758,317**
					32.0 Exterior Improvements	***1.00* LS**	**719**	**76,828**	**466,560**		**44,648**		**588,035.52 /LS**	**588,036**	**758,316.69 /LS**	**758,317**
					2215.16 Access Road and Parking	**10,800.00 SY**	**719**	**76,828**	**466,560**		**44,648**		**54.45 /SY**	**588,036**	**70.21 /SY**	**758,317**
2215.18					**Earthen Channel**											
	31.0				**Earthwork**											
		31.20			**Earthworks, Site**											
			2215.018		**Earthen Channel**											
				03.00.99.01	**Concrete, Channel Lining**											
					Fine grading channel bottom and slopes, for Concrete Lining	2,183.00 sy	22	2,358	-	-	1,519	-	1.78 /sy	3,877	2.19 /sy	4,776
					Reinforced Concrete Lining	240.00 CY	320	30,640	52,800	32,400	4,508	-	501.45 /CY	120,347	633.76 /CY	152,102
					03.00.99.01 Concrete, Channel Lining	**240.00 CY**	**342**	**32,998**	**52,800**	**32,400**	**6,026**		**517.60 /CY**	**124,224**	**653.66 /CY**	**156,878**
				31.20.07.10	**Earthworks, Sitework, Excavating Bulk Measure**											
					Subgrade Prep and Final Grading	15,111.11 sy	504	54,408	-	-	35,040	-	5.92 /sy	89,447	7.29 /sy	110,204
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering	27,280.00 CY	682	75,437	-	-	73,202	-	5.45 /CY	148,639	6.71 /CY	183,131
					Load excavated spoils	27,280.00 cy	205	23,260		-	20,633	-	1.61 /cy	43,893	1.98 /cy	54,079
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 2 mile,25 mph,exclds loadng eqpmnt	21,880.00 cy	365	36,169	-	-	98,882	-	6.17 /cy	135,051	7.60 /cy	166,390
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	**27,280.00 CY**	**1,755**	**189,274**			**227,756**		**15.29 /CY**	**417,030**	**18.83 /CY**	**513,803**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Fill, native fill, Placed	5,400.00 CY	315	31,756		-	11,257	-	7.97 /CY	43,013	9.81 /CY	52,994
					Compaction, water for, 3000 gallon truck, 3 mile haul	5,400.00 cy	43	4,843		-	2,515	-	1.36 /cy	7,358	1.68 /cy	9,065
					31.20.09.10 Earthworks, Sitework, Backfill	**5,400.00 CY**	**358**	**36,599**			**13,772**		**9.33 /CY**	**50,371**	**11.49 /CY**	**62,059**
				31.20.09.50	**Earthworks, Sitework, Stockpile Site**											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	21,880.00 lcy	219	24,875	-	-	25,710	-	2.31 /lcy	50,585	2.85 /lcy	62,323
					31.20.09.50 Earthworks, Sitework, Stockpile Site	**21,880.00 lcy**	**219**	**24,875**			**25,710**		**2.31 /lcy**	**50,585**	**2.85 /lcy**	**62,323**
					2215.018 Earthen Channel	***340.00* LF**	**2,674**	**283,745**	**52,800**	**32,400**	**273,264**		**1,888.85 /LF**	**642,209**	**2,338.42 /LF**	**795,064**
					31.20 Earthworks, Site	**32,920.00 CY**	**2,674**	**283,745**	**52,800**	**32,400**	**273,264**		**19.51 /CY**	**642,209**	**24.15 /CY**	**795,064**
					31.0 Earthwork	**32,920.00 CY**	**2,674**	**283,745**	**52,800**	**32,400**	**273,264**		**19.51 /CY**	**642,209**	**24.15 /CY**	**795,064**
					2215.18 Earthen Channel	***340.00* LF**	**2,674**	**283,745**	**52,800**	**32,400**	**273,264**		**1,888.85 /LF**	**642,209**	**2,338.42 /LF**	**795,064**
2215.20					**Siphon**											
	33.0				**Utilities**											
		33.10			**Buried Piping**											
			2215.020		**Siphon**											
				31.16.01.00	**Earthworks, Sheeting and Shoring**											
					Siphone Sheet Pile Shoring	16,000.00 SF				720,000	-	-	45.00 /SF	720,000	55.44 /SF	887,078
					31.16.01.00 Earthworks, Sheeting and Shoring	**16,000.00 SF**				**720,000**			**45.00 /SF**	**720,000**	**55.44 /SF**	**887,078**
				31.20.07.10	**Earthworks, Sitework, Excavating Bulk Measure**											
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering	5,610.00 CY	140	15,513	-	-	15,054	-	5.45 /CY	30,567	6.71 /CY	37,660
					Load excavated spoils	5,610.00 cy	42	4,783		-	4,243	-	1.61 /cy	9,026	1.98 /cy	11,121
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 2 mile,25 mph,exclds loadng eqpmnt	650.00 cy	11	1,074	-	-	2,938	-	6.17 /cy	4,012	7.60 /cy	4,943
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	**5,610.00 CY**	**193**	**21,371**			**22,234**		**7.77 /CY**	**43,605**	**9.58 /CY**	**53,724**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Fill, native fill, Placed, Between Sheet Piles and Above Siphon	4,960.00 CY	289	29,168		-	10,340	-	7.97 /CY	39,508	9.81 /CY	48,676
					Compaction, water for, 3000 gallon truck, 3 mile haul	4,960.00 cy	40	4,448		-	2,310	-	1.36 /cy	6,758	1.68 /cy	8,327
					31.20.09.10 Earthworks, Sitework, Backfill	**4,960.00 CY**	**329**	**33,617**			**12,650**		**9.33 /CY**	**46,266**	**11.49 /CY**	**57,003**
				31.20.09.50	**Earthworks, Sitework, Stockpile Site**											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	650.00 lcy	7	739	-	-	764	-	2.31 /lcy	1,503	2.85 /lcy	1,851

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.20.09.50 Earthworks, Sitework, Stockpile Site	650.00 lcy	7	739			764		2.31 /lcy	1,503	2.85 /lcy	1,851
				31.25.02.02	Earthworks, Structural, Import Aggregates (Sand)											
					Fill, Sand Bedding for Siphon compacted	46.00 CY	28	2,823	1,840	-	1,001	-	123.12 /CY	5,664	154.59 /CY	7,111
					31.25.02.02 Earthworks, Structural, Import Aggregates (Sand)	46.00 CY	28	2,823	1,840		1,001		123.12 /CY	5,664	154.59 /CY	7,111
				33.00.20.07	Buried Pipe, Precast Concrete Box Culvert, 7' width											
					Public Storm Utility Drainage Piping, concrete, box culvert, precast, base price, 8' long, 6' x 7', excludes excavation or backfill	330.00 LF	240	24,540	396,000	-	13,473	-	1,315.19 /LF	434,013	1,707.38 /LF	563,437
					Concrete Wing Walls	67.00 lf				48,240	-	-	720.00 /lf	48,240	887.08 /lf	59,434
					33.00.20.07 Buried Pipe, Precast Concrete Box Culvert, 7' width	330.00 LF	240	24,540	396,000	48,240	13,473		1,461.37 /LF	482,253	1,887.49 /LF	622,871
					2215.020 Siphon	330.00 LF	797	83,090	397,840	768,240	50,121		3,937.24 /LF	1,299,290	4,938.30 /LF	1,629,638
					33.10 Buried Piping	330.00 LF	797	83,090	397,840	768,240	50,121		3,937.24 /LF	1,299,290	4,938.30 /LF	1,629,638
					33.0 Utilities	330.00 LF	797	83,090	397,840	768,240	50,121		3,937.24 /LF	1,299,290	4,938.30 /LF	1,629,638
					2215.20 Siphon	**330.00 LF**	**797**	**83,090**	**397,840**	**768,240**	**50,121**		**3,937.24 /LF**	**1,299,290**	**4,938.30 /LF**	**1,629,638**
2215.22					**Lateral Canal**											
	31.0				Earthwork											
		31.20			Earthworks, Site											
			2215.022		**Lateral Canal**											
				03.00.99.01	Concrete, Channel Lining											
					Fine grading channel bottom and slopes, for Concrete Inlet/Outlet Transition	1,818.88 sy	18	1,965	-	-	1,265	-	1.78 /sy	3,230	2.19 /sy	3,979
					Reinforced Concrete Inlet/Outlet Transition	200.00 CY	267	25,533	44,000	27,000	3,756	-	501.45 /CY	100,289	633.76 /CY	126,752
					03.00.99.01 Concrete, Channel Lining	200.00 CY	285	27,498	44,000	27,000	5,022		517.60 /CY	103,519	653.66 /CY	130,731
				31.20.07.10	Earthworks, Sitework, Excavating Bulk Measure											
					Subgrade Prep and Final Grading	9,506.64 sy	317	34,229	-	-	22,044	-	5.92 /sy	56,273	7.29 /sy	69,331
					Excavating, common earth, 2-1/2 C.Y. excavator, excludes dewatering	17,160.00 CY	429	47,452	-	-	46,047	-	5.45 /CY	93,499	6.71 /CY	115,195
					Load excavated spoils	17,160.00 cy	129	14,632		-	12,979	-	1.61 /cy	27,610	1.98 /cy	34,017
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 2 mile,25 mph,exclds loadng eqpmnt	12,440.00 cy	207	20,564	-	-	56,220	-	6.17 /cy	76,784	7.60 /cy	94,602
					31.20.07.10 Earthworks, Sitework, Excavating Bulk Measure	17,160.00 CY	1,082	116,876			137,289		14.81 /CY	254,165	18.25 /CY	313,145
				31.20.09.10	Earthworks, Sitework, Backfill											
					Fill, native fill, Placed	4,720.00 CY	275	27,757		-	9,839	-	7.97 /CY	37,596	9.81 /CY	46,321
					Compaction, water for, 3000 gallon truck, 3 mile haul	4,720.00 cy	38	4,233		-	2,198	-	1.36 /cy	6,431	1.68 /cy	7,924
					31.20.09.10 Earthworks, Sitework, Backfill	4,720.00 CY	313	31,990			12,038		9.33 /CY	44,028	11.49 /CY	54,244
				31.20.09.50	Earthworks, Sitework, Stockpile Site											
					Backfill, bulk, up to 300' haul, dozer backfilling, excludes compaction	12,440.00 lcy	124	14,143	-	-	14,618	-	2.31 /lcy	28,760	2.85 /lcy	35,434
					31.20.09.50 Earthworks, Sitework, Stockpile Site	12,440.00 lcy	124	14,143			14,618		2.31 /lcy	28,760	2.85 /lcy	35,434
					2215.022 Lateral Canal	***820.00*** **LF**	**1,804**	**190,507**	**44,000**	**27,000**	**168,966**		**524.97 /LF**	**430,473**	**650.68 /LF**	**533,555**
					31.20 Earthworks, Site	22,080.00 CY	1,804	190,507	44,000	27,000	168,966		19.50 /CY	430,473	24.16 /CY	533,555
					31.0 Earthwork	22,080.00 CY	1,804	190,507	44,000	27,000	168,966		19.50 /CY	430,473	24.16 /CY	533,555
					2215.22 Lateral Canal	***820.00*** **LF**	**1,804**	**190,507**	**44,000**	**27,000**	**168,966**		**524.97 /LF**	**430,473**	**650.68 /LF**	**533,555**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	56,454,611		496,920.434	
Material	21,239,126			
Subcontractor	2,510,040			
Equipment	80,773,429		288,950.824	
Other				
Subtotal Direct Costs	**160,977,206**	**160,977,206**		
Material Sales Tax, Dunnigan Ca	1,539,837			7.250 %
Subtotal W/ Sales Tax	**1,539,837**	**162,517,043**		
Concrete Sub OH&P	4,402,439			20.000 %
Architectural Sub OH&P				20.000 %
Subtotal w/ Sub Markup	**4,402,439**	**166,919,482**		
Mobilization/Demobilization	5,007,584			3.000 %
Prime Contractor Overhead	16,691,948			10.000 %
Prime Contractor Profit	11,317,141			6.000 %
Bonds & Insurance	4,338,615			2.170 %
Subtotal w/ Prime Markups	**37,355,288**	**204,274,770**		
Contratcor Contingency	6,128,243			3.000 %
Design Contingency	36,769,458			18.000 %
Subtotal w/ Contingency	**42,897,701**	**247,172,471**		
Opinion of Probable Construction Costs		**247,172,471**		

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Appendix H
Package 5
TRR PGP Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2000	**General Conditions**	***1.00*** **LS**	**18,530,749.37 /LS**	**18,530,749**
2005	**Funks-TRR Access Road**	***1.00*** **LS**	**9,964,511.44 /LS**	**9,964,511**
2201	**Sitework**	***1.00*** **LS**	**34,610,865.10 /LS**	**34,610,865**
2210	**13.8kV OH to Check Structures 1, 4**	***1.00*** **LS**	**573,594.40 /LS**	**573,594**
2255	**TRR PGP Pumping Plant**	***1.00*** **LS**	**72,155,875.83 /LS**	**72,155,876**
2260	**TRR PGP Switchgear Building**	***1.00*** **LS**	**9,103,159.08 /LS**	**9,103,159**
2265	**TRR PGP Generating Plant**	***1.00*** **LS**	**26,521,211.74 /LS**	**26,521,212**
2270	**TRR PGP Chiller Yard**	***1.00*** **LS**	**1,663,701.29 /LS**	**1,663,701**
2271	**TRR PGP HVAC Building**	***1.00*** **LS**	**1,948,654.56 /LS**	**1,948,655**
2275	**TRR PGP Energy Dissipation Structure**	***1.00*** **LS**	**11,377,192.19 /LS**	**11,377,192**
2280	**TRR PGP Fire Water Tank**	***1.00*** **LS**	**1,281,185.78 /LS**	**1,281,186**
2281	**TRR PGP Fire Water Pumping Plant**	***1.00*** **LS**	**428,787.01 /LS**	**428,787**
2285	**TRR PGP Surge Control System**	***1.00*** **LS**	**2,383,717.13 /LS**	**2,383,717**
2291	**TRR Check Structure 1**	***1.00*** **LS**	**1,751,598.31 /LS**	**1,751,598**
2292	**TRR Check Structure 2**	***1.00*** **LS**	**1,896,793.02 /LS**	**1,896,793**
2293	**TRR Check Structure 3**	***1.00*** **LS**	**2,716,438.14 /LS**	**2,716,438**
2294	**TRR Check Structure 4**	***1.00*** **LS**	**2,764,835.29 /LS**	**2,764,835**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	72,841,193		483,909.778	
Material	87,182,045			
Subcontractor	6,034,281			
Equipment	9,735,816		144,043.413	
Other	23,879,535			
Subtotal w/ OFCI Equipment	**199,672,870**	**199,672,870**		
Contractor Contingency	5,990,186			3.000 %
Design Contingency	35,941,117			18.000 %
Opinion of Probable Construction Costs	**41,931,303**	**241,604,173**		

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Work Activity Summary Report
Project Name: TRR PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/17/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
2000				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	308,865.74 /LS	308,866
			01.I5.005	GC Labor	1.00 LS	7,227,065.20 /LS	7,227,065
			01.I5.010	Jobsite Office	1.00 LS	802,073.99 /LS	802,074
			01.I5.011	Temporary Facilities	1.00 LS	1,053,705.10 /LS	1,053,705
			01.I5.012	Temporary Services	1.00 LS	420,281.20 /LS	420,281
			01.I5.013	Travel	1.00 LS	1,881,317.79 /LS	1,881,318
			01.I5.014	Site Cleanup	1.00 LS	559,523.00 /LS	559,523
			01.I5.014A	Site Safety	1.00 LS	1,320,392.18 /LS	1,320,392
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	746,932.56 /LS	746,933
			01.I5.016	Material Handling	1.00 LS	2,199,349.07 /LS	2,199,349
			01.I5.020	GC Indirect Services & Support	1.00 LS	574,458.92 /LS	574,459
			01.I6.000	Quality Control	1.00 LS	1,436,784.62 /LS	1,436,785
				01.01 Construction Operations	24.00 MO	772,114.56 /MO	18,530,749
				01.0 General Requirements	24.00 MO	772,114.56 /MO	18,530,749
				2000 General Conditions	**1.00 LS**	**18,530,749.37 /LS**	**18,530,749**
2005				**Funks-TRR Access Road**			
	31.0			Earthwork			
		31.20		Earthworks, Site			
			31.05.000	Funks-TRR Access Road	1.00 LS	9,964,511.44 /LS	9,964,511
				31.20 Earthworks, Site	1.00 LS	9,964,511.44 /LS	9,964,511
				31.0 Earthwork	1.00 LS	9,964,511.44 /LS	9,964,511
				2005 Funks-TRR Access Road	**1.00 LS**	**9,964,511.44 /LS**	**9,964,511**
2201				**Sitework**			
	26.0			Electrical Work			
		26.10		Site Electrical			
			26.02.FO	Fiber Network	3,500.00 LF	87.65 /LF	306,763
			26.02.LV	LV UG Conduits	1.00 LS	24,312.60 /LS	24,313
			26.02.OFFSITE	Primary to MH for OH MV by others (Dam/Inlet-Outlet)5	1.00 LS	199,060.47 /LS	199,060
			26.20.DB	Site Ductbanks	1.00 LS	323,889.75 /LS	323,890
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	156,994.35 /LS	156,994
			28.20.AC	Access Control System	1.00 LS	25,119.09 /LS	25,119
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	94,196.61 /LS	94,197
				26.10 Site Electrical	1.00 LS	1,130,336.03 /LS	1,130,336
				26.0 Electrical Work	1.00 LS	1,130,336.03 /LS	1,130,336
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.25.00.0010	Structural Earthworks	1.00 LS	6,440,518.02 /LS	6,440,518
				31.25 Earthworks, Structural	272,100.00 CY	23.67 /CY	6,440,518
		31.30		Site Specialties			
			32.05.002	Soil Nail Wall/Ret Wall (D4/MPG-2205-C-3001), Detail 52 of 203	14,250.00 SF	558.34 /SF	7,956,407
				31.30 Site Specialties	1.00 LS	7,956,407.03 /LS	7,956,407
				31.0 Earthwork	1.00 LS	14,396,925.05 /LS	14,396,925
	32.0			Exterior Improvements			
		31.40		Paving			
			32.05.000	4" Asphalt & 12" Aggregate Base (access road - AC pavement)	33,298.30 SY	98.12 /SY	3,267,144
				31.40 Paving	33,298.30 SY	98.12 /SY	3,267,144
		31.45		Fencing			
			32.05.004	Misc Site Improvements	1.00 LS	2,487,780.17 /LS	2,487,780
				31.45 Fencing	6,151.00 LF	404.45 /LF	2,487,780
				32.0 Exterior Improvements	1.00 LS	5,754,924.57 /LS	5,754,925
	33.0			Utilities			
		33.02		Buried Process Pipe, Ductile Iron			
			MOA-33.25.008	Fire Protection Yard Piping	1,678.00 LF	245.20 /LF	411,449
				33.02 Buried Process Pipe, Ductile Iron	1,678.00 LF	245.20 /LF	411,449
		33.03		Buried Process Pipe, Carbon Steel			
			MOA-33.25.001	144" Dia WSP Yard Piping	1,321.00 LF	6,080.57 /LF	8,032,433
			MOA-33.25.006	90" Dia WSP Yard Piping	830.00 LF	4,545.01 /LF	3,772,356
			MOA-33.25.106	60" Dia WSP Yard Piping	350.00 LF	3,178.41 /LF	1,112,443
				33.03 Buried Process Pipe, Carbon Steel	2,501.00 LF	5,164.83 /LF	12,917,231
				33.0 Utilities	4,179.00 LF	3,189.44 /LF	13,328,679
				2201 Sitework	**1.00 LS**	**34,610,865.10 /LS**	**34,610,865**
2210				**13.8kV OH to Check Structures 1, 4**			
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	573,594.40 /LS	573,594
				26.15 Process Electrical	1.00 LS	573,594.40 /LS	573,594
				26.0 Electrical Work	1.00 LS	573,594.40 /LS	573,594
				2210 13.8kV OH to Check Structures 1, 4	**1.00 LS**	**573,594.40 /LS**	**573,594**
2255				**TRR PGP Pumping Plant**			
	03.0			Concrete Work			
		03.13		Cast-In-Place Concrete, Continuous Footings			
			MOA-03.00.001	3'-0" wide, 18" thick Continuous Footing	0.33 CY	1,204.89 /CY	401
				03.13 Cast-In-Place Concrete, Continuous Footings	0.33 CY	1,204.89 /CY	401
		03.18		Cast-In-Place Concrete, Slabs on Grade			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			03.08.010	Slab on Grade, 18" Thick	323.00 CY	977.63 /CY	315,774
			MOA-03.20.003	6'-6" thick Mat Slab on Grade	5,135.00 CY	973.05 /CY	4,996,613
			MOA-03.20.004	6'-6" thick Inclined Mat Slab on Grade	3,072.00 CY	929.67 /CY	2,855,934
				03.18 Cast-In-Place Concrete, Slabs on Grade	8,530.00 CY	957.60 /CY	8,168,321
		03.20		Cast-In-Place Concrete, Straight Walls			
			MOA-03.25.001	2'-0" thick CIP Exterior Wall - 38'-0" high	760.00 CY	3,404.83 /CY	2,587,669
			MOA-03.25.002	4'-8" thick CIP Exterior Wall - 41'-0" high	3,390.00 CY	1,814.05 /CY	6,149,641
			MOA-03.25.003	1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay	670.00 CY	2,353.42 /CY	1,576,792
			MOA-03.25.004	2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay	1,355.00 CY	2,012.35 /CY	2,726,740
			MOA-03.25.005	6" thick CIP Interior Wall - 41'-0" high - Intake Bay	136.00 CY	5,070.84 /CY	689,634
			MOA-03.25.006	3'-0" thick CIP Interior Wall - 41'-0" high	5,622.00 CY	1,672.14 /CY	9,400,765
				03.20 Cast-In-Place Concrete, Straight Walls	11,933.00 CY	1,938.43 /CY	23,131,241
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.001	4'-0" thick CIP Concrete Roof Deck	4,327.00 CY	1,570.52 /CY	6,795,648
				03.24 Cast-In-Place Concrete, Elevated Slabs	4,327.00 CY	1,570.52 /CY	6,795,648
		03.27		Cast-In-Place Concrete, Equipment Pads			
			03.08.011	Concrete Equipment Pads	16.00 CY	1,331.43 /CY	21,303
				03.27 Cast-In-Place Concrete, Equipment Pads	16.00 CY	1,331.43 /CY	21,303
				03.0 Concrete Work	24,806.33 CY	1,536.58 /CY	38,116,915
	04.0			Masonry - Architectural			
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	9,908.42 SF	87.08 /SF	862,799
			MOA-04.21.002	8" thick Exterior CMU Wall - uninsulated	2,656.00 SF	58.82 /SF	156,226
				04.21 Concrete Unit Masonry - Exterior	12,564.42 SF	81.10 /SF	1,019,025
		04.23		Concrete Unit Masonry - Interior			
			MOA-04.23.001	8" thick Interior CMU Wall	1,515.89 SF	64.97 /SF	98,490
				04.23 Concrete Unit Masonry - Interior	1,515.89 SF	64.97 /SF	98,490
				04.0 Masonry - Architectural	14,080.31 SF	79.37 /SF	1,117,515
	05.0			Metals			
		05.00		Metals			
			05.00.004	Metal Grating	1,138.00 SF	139.70 /SF	158,979
			05.00.010	Trash Racks	*1.00* LS	1,810,238.24 /LS	1,810,238
			MOA-05.20.001	Steel Platform	*1.00* LS	1,002,043.50 /LS	1,002,044
				05.00 Metals	*1.00* LS	2,971,260.26 /LS	2,971,260
				05.0 Metals	*1.00* LS	2,971,260.26 /LS	2,971,260
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	116.00 SQ	1,398.20 /SQ	162,191
			MOA-07.00.001	Metal Roof	9,540.00 SF	195.06 /SF	1,860,905
				07.00 Thermal & Moisture Protection	*1.00* LS	2,023,096.59 /LS	2,023,097
				07.0 Thermal and Moisture Protection	*1.00* LS	2,023,096.59 /LS	2,023,097
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	18.00 EA	6,170.20 /EA	111,064
				08.10 Doors and Frames - Exterior Doors	18.00 EA	6,170.20 /EA	111,064
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	3.00 EA	2,194.08 /EA	6,582
				08.15 Doors and Frames - Interior Doors	3.00 EA	2,194.08 /EA	6,582
				08.0 Openings	21.00 EA	5,602.18 /EA	117,646
	09.0			Finishes			
		09.20		Plaster and Gypsum Board			
			MOA-09.20.001	3-5/8" thick Interior Metal Stud Wall - Type A	436.51 SF	13.19 /SF	5,757
				09.20 Plaster and Gypsum Board	436.51 SF	13.19 /SF	5,757
				09.0 Finishes	*1.00* LS	5,756.80 /LS	5,757
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.04.MVVSD	Medium Voltage Variable Speed Drives	*1.00* LS	8,673,525.55 /LS	8,673,526
			26.40.EQCON	Facility Equipment Connections and Controls	*1.00* LS	18,384.74 /LS	18,385
			26.40.PMP	13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	*1.00* LS	626,230.70 /LS	626,231
			26.41.PMP	8000HP Pump Process Control Circuits and Connections	1,440.00 LF	68.01 /LF	97,933
				26.15 Process Electrical	*1.00* LS	9,416,073.84 /LS	9,416,074
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	*1.00* LS	94,246.59 /LS	94,247
			26.25.LTG	Interior Lighting and Control	*1.00* LS	169,860.37 /LS	169,860
			26.26.EXTLTG	Exterior Lighting and Control	*1.00* LS	86,842.90 /LS	86,843
			26.30.DEV	Device Outlets	*1.00* LS	97,648.84 /LS	97,649
			26.40.PMP	13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	*1.00* LS	27,132.88 /LS	27,133
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	50,097.66 /LS	50,098
				26.20 Facility Electrical	*1.00* LS	525,829.24 /LS	525,829
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	*1.00* LS	320,312.08 /LS	320,312
				26.25 Electrical Equipment	*1.00* LS	320,312.08 /LS	320,312
				26.0 Electrical Work	*1.00* LS	10,262,215.16 /LS	10,262,215
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	*1.00* LS	101,651.05 /LS	101,651
			28.20.AC	Access Control System	*1.00* LS	22,753.60 /LS	22,754
			28.20.CCTV	Closed Circuit TV and Cameras	*1.00* LS	103,099.88 /LS	103,100

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			28.20.ID	Intrusion Detection System	1.00 LS	48,212.28 /LS	48,212
				28.00 Electronic Safety and Security	1.00 LS	275,716.81 /LS	275,717
				28.0 Electronic Safety and Security	1.00 LS	275,716.81 /LS	275,717
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.300	Funk PGP, Process Piping	720.00 LF	6,200.39 /LF	4,464,282
				40.11 Process Pipe, Carbon Steel	720.00 LF	6,200.39 /LF	4,464,282
				40.0 Process Pipe	720.00 LF	6,200.39 /LF	4,464,282
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			26.40.90	I&C	1.00 LS	304,275.40 /LS	304,275
			40.90.I&C	Instrumentation & Control	1.00 LS	223,646.04 /LS	223,646
				40.90 Instrumentation & Controls	1.00 LS	527,921.44 /LS	527,921
				40.9 Instrumentation	1.00 LS	527,921.44 /LS	527,921
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.40.300	Funk PGP, Furnish and Install Pumps	12.00 EA	1,022,795.90 /EA	12,273,551
				44.40 Process Equipment - Pumps	12.00 EA	1,022,795.90 /EA	12,273,551
				44.0 Pollution and Waste Control Equipment	12.00 EA	1,022,795.90 /EA	12,273,551
				2255 TRR PGP Pumping Plant	**1.00 LS**	**72,155,875.83 /LS**	**72,155,876**
2260				**TRR PGP Switchgear Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.002	8" thick Slab on Grade	150.00 CY	1,230.62 /CY	184,593
				03.18 Cast-In-Place Concrete, Slabs on Grade	150.00 CY	1,230.62 /CY	184,593
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.001	4'-0" thick CIP Concrete Roof Deck	2.03 CY	6,741.36 /CY	13,692
				03.24 Cast-In-Place Concrete, Elevated Slabs	2.03 CY	6,741.36 /CY	13,692
		03.27		Cast-In-Place Concrete, Equipment Pads			
			MOA-03.15.001	4" thick Equipment Pad	8.26 CY	1,560.67 /CY	12,890
				03.27 Cast-In-Place Concrete, Equipment Pads	8.26 CY	1,560.67 /CY	12,890
				03.0 Concrete Work	160.29 CY	1,317.45 /CY	211,174
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	35.10 SQ	1,972.69 /SQ	69,241
			MOA-07.00.001	Metal Roof	2,850.00 SF	113.59 /SF	323,728
				07.00 Thermal & Moisture Protection	1.00 LS	392,969.67 /LS	392,970
				07.0 Thermal and Moisture Protection	1.00 LS	392,969.67 /LS	392,970
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	6,225.84 /EA	24,903
				08.10 Doors and Frames - Exterior Doors	4.00 EA	6,225.84 /EA	24,903
		08.15		Doors and Frames - Interior Doors			
			MOA-08.15.001	Interior Doors	1.00 EA	2,194.08 /EA	2,194
				08.15 Doors and Frames - Interior Doors	1.00 EA	2,194.08 /EA	2,194
				08.0 Openings	5.00 EA	5,419.49 /EA	27,097
	09.0			Finishes			
		09.00		Finishes - Miscellaneous			
			MOA-09.00.001	Floor Finishes	2,783.00 SF	1.04 /SF	2,898
				09.00 Finishes - Miscellaneous	2,783.00 SF	1.04 /SF	2,898
		09.20		Plaster and Gypsum Board			
			MOA-09.20.002	3-5/8" thick Interior Metal Stud Wall - Type B	2,110.00 SF	13.07 /SF	27,568
				09.20 Plaster and Gypsum Board	2,110.00 SF	13.07 /SF	27,568
				09.0 Finishes	1.00 LS	30,465.76 /LS	30,466
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.02.PRI	Primary Feeds fromSubstation	1,840.00 LF	426.29 /LF	784,364
			26.04.MVBUS	Medium Voltage Overhead Bus Duct 2000A	1.00 LS	1,728,300.34 /LS	1,728,300
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	511,728.56 /LS	511,729
			26.20.GEN	Generator	1.00 LS	484,488.68 /LS	484,489
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	37,973.10 /LS	37,973
				26.15 Process Electrical	1.00 LS	3,546,855.12 /LS	3,546,855
		26.20		Facility Electrical			
			26.04.MVBUS	Medium Voltage Overhead Bus Duct 2000A	1.00 LS	11,305.38 /LS	11,305
			26.05.GRDG	Facility Grounding	1.00 LS	94,246.61 /LS	94,247
			26.25.LTG	Interior Lighting and Control	1.00 LS	169,860.35 /LS	169,860
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	8,841.30 /LS	8,841
			26.30.DEV	Device Outlets	1.00 LS	97,648.84 /LS	97,649
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	18,384.73 /LS	18,385
			26.90.LPS	Facility Lightning Protection System	1.00 LS	50,097.67 /LS	50,098
				26.20 Facility Electrical	1.00 LS	450,384.88 /LS	450,385
		26.25		Electrical Equipment			
			26.03.MVSWGR	MV Switchgear	42,400.00 FA	86.99 /FA	3,688,219
			26.03.SWGREQ	Station Aux Xfmr, Btty	1.00 LS	361,057.54 /LS	361,058
				26.25 Electrical Equipment	1.00 LS	4,049,276.48 /LS	4,049,276
				26.0 Electrical Work	1.00 LS	8,046,516.48 /LS	8,046,516
	27.0			Telecommunications - Network			
		27.00		Telecommunications			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			27.10.COMEQ	Communications Room Equipment	1.00 LS	71,634.20 /LS	71,634
			27.31.COMCDT	Comm Conduit to MH/HH	1.00 LS	47,584.30 /LS	47,584
				27.00 Telecommunications	1.00 LS	119,218.50 /LS	119,219
				27.0 Telecommunications - Network	1.00 LS	119,218.50 /LS	119,219
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	1.00 LS	101,651.04 /LS	101,651
			28.20.AC	Access Control System	1.00 LS	22,753.61 /LS	22,754
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	103,099.88 /LS	103,100
			28.20.ID	Intrusion Detection System	1.00 LS	48,212.28 /LS	48,212
				28.00 Electronic Safety and Security	1.00 LS	275,716.81 /LS	275,717
				28.0 Electronic Safety and Security	1.00 LS	275,716.81 /LS	275,717
				2260 TRR PGP Switchgear Building	**1.00 LS**	**9,103,159.08 /LS**	**9,103,159**
2265				**TRR PGP Generating Plant**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.005	4'-0" thick Mat Slab on Grade	874.00 CY	1,188.74 /CY	1,038,956
				03.18 Cast-In-Place Concrete, Slabs on Grade	874.00 CY	1,188.74 /CY	1,038,956
		03.20		Cast-In-Place Concrete, Straight Walls			
			MOA-03.25.011	1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade	56.00 CY	3,284.64 /CY	183,940
			MOA-03.25.012	3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade	1,660.00 CY	1,672.71 /CY	2,776,696
			MOA-03.25.013	1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	1,082.00 CY	1,747.03 /CY	1,890,283
			MOA-03.25.014	1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	60.00 CY	3,046.75 /CY	182,805
			MOA-03.25.015	2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	24.00 CY	2,021.17 /CY	48,508
			MOA-03.25.016	3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade	263.00 CY	1,672.65 /CY	439,907
				03.20 Cast-In-Place Concrete, Straight Walls	3,145.00 CY	1,755.85 /CY	5,522,138
		03.23		Cast-In-Place Concrete, Columns			
			MOA-03.27.001	2'-6" x 2'-6" CIP Column - CC01; 22'-3" high	67.00 CY	3,737.29 /CY	250,398
			MOA-03.27.002	3'-0" x 3'-0" CIP Column; 30'-4" high	41.00 CY	3,483.68 /CY	142,831
				03.23 Cast-In-Place Concrete, Columns	108.00 CY	3,641.01 /CY	393,229
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.002	4'-0" thick CIP Concrete Roof Deck	1,090.00 CY	1,563.16 /CY	1,703,850
			MOA-03.30.003	2'-0" thick CIP Upper Floor	493.00 CY	2,104.54 /CY	1,037,539
				03.24 Cast-In-Place Concrete, Elevated Slabs	1,583.00 CY	1,731.77 /CY	2,741,389
		03.25		Cast-In-Place Concrete, Elevated Beams			
			MOA-03.26.001	36" x 24" CIP Beam - CB02	24.00 CY	2,181.59 /CY	52,358
			MOA-03.26.002	48" x 36" CIP Beam - CB03	48.00 CY	1,872.50 /CY	89,880
			MOA-03.26.003	36" x 24" CIP Beam - CB04	43.00 CY	2,188.09 /CY	94,088
				03.25 Cast-In-Place Concrete, Elevated Beams	115.00 CY	2,055.01 /CY	236,326
		03.35		Concrete Miscellaneous			
			03.00.200	Lean Concrete Fill	1,400.00 CY	393.76 /CY	551,264
				03.35 Concrete Miscellaneous	1,400.00 CY	393.76 /CY	551,264
				03.0 Concrete Work	7,225.00 CY	1,450.98 /CY	10,483,303
	03.2			Precast Concrete			
		03.40		Precast Concrete			
			03.54.000	Precast Concrete Removable Panels	1,762.00 SF	76.50 /SF	134,791
				03.40 Precast Concrete	1.00 LS	134,791.48 /LS	134,791
				03.2 Precast Concrete	1,762.00 SF	76.50 /SF	134,791
	05.0			Metals			
		05.00		Metals			
			05.50.00.004	Aluminum Grating	630.00 SF	123.13 /SF	77,575
			MOA-05.10.002	Metal Stairs	76.00 RISR	1,718.48 /RISR	130,604
				05.00 Metals	1.00 LS	208,178.99 /LS	208,179
		05.10		Structural Steel			
			MOA-05.10.001	Steel Roof Joist	2.00 TN	16,955.38 /TN	33,911
				05.10 Structural Steel	1.00 LS	33,910.77 /LS	33,911
				05.0 Metals	1.00 LS	242,089.76 /LS	242,090
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	28.60 SQ	1,339.95 /SQ	38,323
			07.00.002	Transluscent Panel Roofing	744.00 SF	118.02 /SF	87,806
			MOA-07.00.001	Metal Roof	1,860.00 SF	133.71 /SF	248,695
				07.00 Thermal & Moisture Protection	1.00 LS	374,823.52 /LS	374,824
				07.0 Thermal and Moisture Protection	1.00 LS	374,823.52 /LS	374,824
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	7.00 EA	14,535.82 /EA	101,751
				08.10 Doors and Frames - Exterior Doors	7.00 EA	14,535.82 /EA	101,751
				08.0 Openings	7.00 EA	14,535.82 /EA	101,751
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.500	Funk PGP Generating Plant, Fire Suppression	1.00 LS	149,055.58 /LS	149,056
				21.00 Fire Sprinkler	1.00 LS	149,055.58 /LS	149,056
				21.0 Fire Suppression	1.00 LS	149,055.58 /LS	149,056
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.025	Funks PGP Generating Plant, HVAC	1,482.00 SF	334.76 /SF	496,111
				23.00 HVAC	1.00 LS	496,111.43 /LS	496,111

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				23.0 HVAC	1.00 LS	496,111.43 /LS	496,111
	26.0			Electrical Work			
		26.00		Electrical			
			26.40.90	I&C	1.00 LS	133,234.85 /LS	133,235
				26.00 Electrical	1.00 LS	133,234.85 /LS	133,235
		26.15		Process Electrical			
			26.00.000	Hydropower Generators	2.00 EA	534,183.92 /EA	1,068,368
			26.05.GRDG	Facility Grounding	1.00 LS	15,308.25 /LS	15,308
			26.12.SEC	Subfeed from Elec Building	600.00 LF	103.76 /LF	62,254
			26.40.HYDTURB	13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A	2,320.00 LF	194.79 /LF	451,922
			26.41.HYDTURB	Hyd Turbine Controls Circuits	1,160.00 LF	142.70 /LF	165,537
				26.15 Process Electrical	1.00 LS	1,763,388.75 /LS	1,763,389
		26.20		Facility Electrical			
			26.25.LTG	Interior Lighting and Control	1.00 LS	29,899.80 /LS	29,900
			26.26.EXTLTG	Exterior Lighting and Control	1.00 LS	2,376.61 /LS	2,377
			26.30.DEV	Device Outlets	1.00 LS	22,513.03 /LS	22,513
			26.40.EQCON	Facility Equipment Connections and Controls	1.00 LS	53,414.93 /LS	53,415
			26.90.LPS	Facility Lightning Protection System	1.00 LS	11,850.42 /LS	11,850
				26.20 Facility Electrical	1.00 LS	120,054.79 /LS	120,055
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	42,947.21 /LS	42,947
				26.25 Electrical Equipment	1.00 LS	42,947.21 /LS	42,947
				26.0 Electrical Work	1.00 LS	2,059,625.60 /LS	2,059,626
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.30.COMCDT	Comm Conduit to Admin	1,200.00 LF	72.67 /LF	87,198
				27.00 Telecommunications	1.00 LS	87,198.07 /LS	87,198
				27.0 Telecommunications - Network	1.00 LS	87,198.07 /LS	87,198
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.20.AC	Access Control System	1.00 LS	6,501.02 /LS	6,501
			28.20.CCTV	Closed Circuit TV and Cameras	1.00 LS	11,148.46 /LS	11,148
			28.20.ID	Intrusion Detection System	1.00 LS	14,445.88 /LS	14,446
				28.00 Electronic Safety and Security	1.00 LS	32,095.36 /LS	32,095
				28.0 Electronic Safety and Security	1.00 LS	32,095.36 /LS	32,095
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.500	Funk PGP Generating Plant, Process Piping	631.00 LF	527.92 /LF	333,120
				40.11 Process Pipe, Carbon Steel	631.00 LF	527.92 /LF	333,120
				40.0 Process Pipe	631.00 LF	527.92 /LF	333,120
	40.9			Instrumentation			
		26.15		Process Electrical			
			40.90.I&C	Instrumentation & Control	1.00 LS	83,959.16 /LS	83,959
				26.15 Process Electrical	1.00 LS	83,959.16 /LS	83,959
				40.9 Instrumentation	1.00 LS	83,959.16 /LS	83,959
	48.0			Electrical Power Generation			
		48.10		Electrical Power Generation			
			26.00.000	Hydropower Generators	2.00 EA	5,971,644.05 /EA	11,943,288
				48.10 Electrical Power Generation	2.00 EA	5,971,644.05 /EA	11,943,288
				48.0 Electrical Power Generation	2.00 EA	5,971,644.05 /EA	11,943,288
				2265 TRR PGP Generating Plant	**1.00 LS**	**26,521,211.74 /LS**	**26,521,212**
2270				**TRR PGP Chiller Yard**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.001	6" thick Slab on Grade	75.00 CY	1,203.07 /CY	90,230
				03.18 Cast-In-Place Concrete, Slabs on Grade	75.00 CY	1,203.07 /CY	90,230
		03.27		Cast-In-Place Concrete, Equipment Pads			
			MOA-03.15.002	6" thick Equipment Pad	27.00 CY	1,255.40 /CY	33,896
				03.27 Cast-In-Place Concrete, Equipment Pads	27.00 CY	1,255.40 /CY	33,896
				03.0 Concrete Work	102.00 CY	1,216.92 /CY	124,126
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.050	HVAC Chiller Equipment	1.00 LS	1,265,049.63 /LS	1,265,050
				23.00 HVAC	1.00 LS	1,265,049.63 /LS	1,265,050
				23.0 HVAC	1.00 LS	1,265,049.63 /LS	1,265,050
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	206,007.44 /LS	206,007
				26.20 Facility Electrical	1.00 LS	206,007.44 /LS	206,007
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	68,518.02 /LS	68,518
				26.25 Electrical Equipment	1.00 LS	68,518.02 /LS	68,518
				26.0 Electrical Work	1.00 LS	274,525.46 /LS	274,525
				2270 TRR PGP Chiller Yard	**1.00 LS**	**1,663,701.29 /LS**	**1,663,701**
2271				**TRR PGP HVAC Building**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			MOA-03.20.002	8" thick Slab on Grade	51.00 CY	1,013.74 /CY	51,701
				03.18 Cast-In-Place Concrete, Slabs on Grade	51.00 CY	1,013.74 /CY	51,701
				03.0 Concrete Work	51.00 CY	1,013.74 /CY	51,701
	04.0			Masonry - Architectural			
		04.21		Concrete Unit Masonry - Exterior			
			MOA-04.21.001	8" thick Exterior CMU Wall	2,654.72 SF	45.62 /SF	121,110
				04.21 Concrete Unit Masonry - Exterior	2,654.72 SF	45.62 /SF	121,110
				04.0 Masonry - Architectural	2,654.72 SF	45.62 /SF	121,110
	07.0			Thermal and Moisture Protection			
		07.00		Thermal & Moisture Protection			
			07.00.000	TPO Membrane Roofing	15.36 SQ	1,262.53 /SQ	19,392
			MOA-07.00.001	Metal Roof	1,127.59 SF	140.02 /SF	157,882
				07.00 Thermal & Moisture Protection	*1.00* LS	177,274.45 /LS	177,274
				07.0 Thermal and Moisture Protection	*1.00* LS	177,274.45 /LS	177,274
	08.0			Openings			
		08.10		Doors and Frames - Exterior Doors			
			MOA-08.10.001	Exterior Doors	4.00 EA	1,774.58 /EA	7,098
				08.10 Doors and Frames - Exterior Doors	4.00 EA	1,774.58 /EA	7,098
				08.0 Openings	4.00 EA	1,774.58 /EA	7,098
	09.0			Finishes			
		09.90		Painting and Coating			
			09.00.006	Building Paintings and Coatings	1,127.59 SF	14.32 /SF	16,148
				09.90 Painting and Coating	*1.00* LS	16,148.13 /LS	16,148
				09.0 Finishes	*1.00* LS	16,148.13 /LS	16,148
	21.0			Fire Suppression			
		21.00		Fire Sprinkler			
			21.00.600	Funk PGP HVAC Building, Fire Suppression	1,127.59 SF	22.61 /SF	25,492
				21.00 Fire Sprinkler	*1.00* LS	25,491.64 /LS	25,492
				21.0 Fire Suppression	*1.00* LS	25,491.64 /LS	25,492
	23.0			HVAC			
		23.00		HVAC			
			23.00.00.040	HVAC Building, HVAC	1,127.59 SF	574.12 /SF	647,368
				23.00 HVAC	*1.00* LS	647,368.31 /LS	647,368
				23.0 HVAC	*1.00* LS	647,368.31 /LS	647,368
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.05.GRDG	Facility Grounding	*1.00* LS	107,811.29 /LS	107,811
			26.25.LTG	Interior Lighting and Control	*1.00* LS	169,860.35 /LS	169,860
			26.26.EXTLTG	Exterior Lighting and Control	*1.00* LS	30,317.74 /LS	30,318
			26.30.DEV	Device Outlets	*1.00* LS	97,648.85 /LS	97,649
			26.40.EQCON	Facility Equipment Connections and Controls	*1.00* LS	18,384.74 /LS	18,385
			26.90.LPS	Facility Lightning Protection System	*1.00* LS	50,097.65 /LS	50,098
				26.20 Facility Electrical	*1.00* LS	474,120.62 /LS	474,121
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	*1.00* LS	60,495.50 /LS	60,496
				26.25 Electrical Equipment	*1.00* LS	60,495.50 /LS	60,496
				26.0 Electrical Work	*1.00* LS	534,616.12 /LS	534,616
	27.0			Telecommunications - Network			
		27.00		Telecommunications			
			27.10.COMEQ	Communications Room Equipment	*1.00* LS	175,337.38 /LS	175,337
			27.31.COMCDT	Comm Conduit to MH/HH	*1.00* LS	69,555.87 /LS	69,556
				27.00 Telecommunications	*1.00* LS	244,893.25 /LS	244,893
				27.0 Telecommunications - Network	*1.00* LS	244,893.25 /LS	244,893
	28.0			Electronic Safety and Security			
		28.00		Electronic Safety and Security			
			28.10.FA	Fire Alarm System	*1.00* LS	61,647.18 /LS	61,647
			28.20.CCTV	Closed Circuit TV and Cameras	*1.00* LS	61,306.60 /LS	61,307
				28.00 Electronic Safety and Security	*1.00* LS	122,953.78 /LS	122,954
				28.0 Electronic Safety and Security	1.00 LS	122,953.78 /LS	122,954
				2271 TRR PGP HVAC Building	*1.00* LS	1,948,654.56 /LS	1,948,655
2275				**TRR PGP Energy Dissipation Structure**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.08.000	Foundation Slabs	576.00 CY	943.08 /CY	543,216
				03.18 Cast-In-Place Concrete, Slabs on Grade	576.00 CY	943.08 /CY	543,216
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.08.002	Concrete Walls	2,449.00 CY	1,410.00 /CY	3,453,096
				03.20 Cast-In-Place Concrete, Straight Walls	2,449.00 CY	1,410.00 /CY	3,453,096
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.08.004	Elevated Concrete Deck	69.00 CY	1,470.82 /CY	101,486
				03.24 Cast-In-Place Concrete, Elevated Slabs	69.00 CY	1,470.82 /CY	101,486
				03.0 Concrete Work	3,094.00 CY	1,324.43 /CY	4,097,799
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	346.00 LF	168.09 /LF	58,158
			05.00.002	Ladders	*1.00* EA	21,013.52 /EA	21,014
			05.00.004	Metal Grating	1,605.00 SF	165.73 /SF	266,004
				05.00 Metals	*1.00* LS	345,175.09 /LS	345,175

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				05.0 Metals	1.00 LS	345,175.09 /LS	345,175
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	251,229.54 /LS	251,230
				26.20 Facility Electrical	1.00 LS	251,229.54 /LS	251,230
				26.0 Electrical Work	1.00 LS	251,229.54 /LS	251,230
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.00.000	Structural Earthworks	75,060.00 CY	20.97 /CY	1,574,131
				31.25 Earthworks, Structural	75,060.00 CY	20.97 /CY	1,574,131
				31.0 Earthwork	1.00 LS	1,574,131.07 /LS	1,574,131
	40.0			Process Pipe			
		40.11		Process Pipe, Carbon Steel			
			40.00.200	Piping and Appurtenances	1.00 LS	5,108,857.86 /LS	5,108,858
				40.11 Process Pipe, Carbon Steel	56.00 LF	91,229.60 /LF	5,108,858
				40.0 Process Pipe	56.00 LF	91,229.60 /LF	5,108,858
				2275 TRR PGP Energy Dissipation Structure	**1.00 LS**	**11,377,192.19 /LS**	**11,377,192**
2280				**TRR PGP Fire Water Tank**			
	03.0			Concrete Work			
		03.13		Cast-In-Place Concrete, Continuous Footings			
			MOA-03.00.002	3'-0" wide, 30" thick Curved Continuous Footing	65.00 CY	1,395.87 /CY	90,731
				03.13 Cast-In-Place Concrete, Continuous Footings	65.00 CY	1,395.87 /CY	90,731
				03.0 Concrete Work	65.00 CY	1,395.87 /CY	90,731
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	45,222.10 /LS	45,222
				26.20 Facility Electrical	1.00 LS	45,222.10 /LS	45,222
				26.0 Electrical Work	1.00 LS	45,222.10 /LS	45,222
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.25.00.0010	Structural Earthworks	1.00 LS	14,873.13 /LS	14,873
				31.25 Earthworks, Structural	181.00 CY	82.17 /CY	14,873
				31.0 Earthwork	1.00 LS	14,873.13 /LS	14,873
	33.0			Utilities			
		33.90		Tanks			
			MOA-33.30.001	50" Dia Aboveground Tank	1.00 EA	1,130,359.30 /EA	1,130,359
				33.90 Tanks	1.00 EA	1,130,359.30 /EA	1,130,359
				33.0 Utilities	1.00 LF	1,130,359.30 /LF	1,130,359
				2280 TRR PGP Fire Water Tank	**1.00 LS**	**1,281,185.78 /LS**	**1,281,186**
2281				**TRR PGP Fire Water Pumping Plant**			
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.008	12" thick Slab on Grade	9.00 CY	2,045.39 /CY	18,409
				03.18 Cast-In-Place Concrete, Slabs on Grade	9.00 CY	2,045.39 /CY	18,409
				03.0 Concrete Work	9.00 CY	2,045.39 /CY	18,409
	13.0			Buildings Complete			
		13.01		Buildings Complete			
			MOA-13.01.001	Preengineered Metal Building; 20' Eave Height	1.00 LS	36,721.61 /LS	36,722
				13.01 Buildings Complete	168.00 SF	218.58 /SF	36,722
				13.0 Buildings Complete	1.00 LS	36,721.61 /LS	36,722
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	265,014.18 /LS	265,014
				26.20 Facility Electrical	1.00 LS	265,014.18 /LS	265,014
				26.0 Electrical Work	1.00 LS	265,014.18 /LS	265,014
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.40.320	Electric Fire Pump	1.00 EA	108,642.71 /EA	108,643
				44.40 Process Equipment - Pumps	1.00 EA	108,642.71 /EA	108,643
				44.0 Pollution and Waste Control Equipment	1.00 EA	108,642.71 /EA	108,643
				2281 TRR PGP Fire Water Pumping Plant	**1.00 LS**	**428,787.01 /LS**	**428,787**
2285				**TRR PGP Surge Control System**			
	03.0			Concrete Work			
		03.10		Cast-In-Place Concrete Work			
			MOA-03.00.004	14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports	63.00 CY	2,157.03 /CY	135,893
				03.10 Cast-In-Place Concrete Work	63.00 CY	2,157.03 /CY	135,893
		03.12		Cast-In-Place Concrete, Pad Footings			
			MOA-03.00.003	17'-0" x 16'-0" x 2'-0" thick Spread Footing	323.00 CY	1,344.01 /CY	434,115
				03.12 Cast-In-Place Concrete, Pad Footings	323.00 CY	1,344.01 /CY	434,115
				03.0 Concrete Work	386.00 CY	1,476.70 /CY	570,008
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.90.LPS	Facility Lightning Protection System	1.00 LS	108,019.82 /LS	108,020
				26.20 Facility Electrical	1.00 LS	108,019.82 /LS	108,020
				26.0 Electrical Work	1.00 LS	108,019.82 /LS	108,020
	31.0			Earthwork			
		31.25		Earthworks, Structural			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			31.25.00.0010	Structural Earthworks	1.00 LS	17,542.18 /LS	17,542
				31.25 Earthworks, Structural	646.00 CY	27.16 /CY	17,542
				31.0 Earthwork	1.00 LS	17,542.18 /LS	17,542
	43.0			Process Equipment			
		43.22		Process Equipment - Expansion Tanks			
			40.00.320	Surge Tanks and Connections	8.00 EA	211,018.44 /EA	1,688,148
				43.22 Process Equipment - Expansion Tanks	8.00 EA	211,018.44 /EA	1,688,148
				43.0 Process Equipment	1.00 LS	1,688,147.50 /LS	1,688,148
				2285 TRR PGP Surge Control System	1.00 LS	2,383,717.13 /LS	2,383,717
2291				**TRR Check Structure 1**			
	03.0			Concrete Work			
		03.11		Cast-In-Place Concrete, Grade Walls			
			MOA-03.25.018	18" thick CIP Grade Wall - 16'-0" High - Below Grade	262.00 CY	3,082.31 /CY	807,566
				03.11 Cast-In-Place Concrete, Grade Walls	262.00 CY	3,082.31 /CY	807,566
		03.15		Cast-In-Place Concrete, Grade Beams			
			MOA-03.00.005	1'-0" wide, 3'-11" Deep Grade Beam	18.00 CY	2,394.73 /CY	43,105
			MOA-03.00.006	1'-6" wide, 3'-0" Deep Grade Beam	49.00 CY	1,963.65 /CY	96,219
				03.15 Cast-In-Place Concrete, Grade Beams	67.00 CY	2,079.46 /CY	139,324
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.009	18" thick Slab on Grade	111.00 CY	1,361.32 /CY	151,106
			MOA-03.20.011	7" thick Slab on Grade	78.00 CY	1,429.07 /CY	111,468
				03.18 Cast-In-Place Concrete, Slabs on Grade	189.00 CY	1,389.28 /CY	262,574
				03.0 Concrete Work	518.00 CY	2,334.87 /CY	1,209,464
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	244.00 LF	128.86 /LF	31,441
			05.00.004	Metal Grating	360.00 SF	175.43 /SF	63,156
				05.00 Metals	1.00 LS	94,597.12 /LS	94,597
				05.0 Metals	1.00 LS	94,597.12 /LS	94,597
	26.0			Electrical Work			
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	48,397.15 /LS	48,397
				26.25 Electrical Equipment	1.00 LS	48,397.15 /LS	48,397
				26.0 Electrical Work	1.00 LS	48,397.15 /LS	48,397
	40.2			Water Control Gates			
		40.30		Water Control Gates			
			40.20.000	Water Control Gates	3.00 EA	94,020.55 /EA	282,062
				40.30 Water Control Gates	3.00 EA	94,020.55 /EA	282,062
				40.2 Water Control Gates	3.00 EA	94,020.55 /EA	282,062
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			26.40.90	I&C	1.00 LS	117,078.21 /LS	117,078
				40.90 Instrumentation & Controls	1.00 LS	117,078.21 /LS	117,078
				40.9 Instrumentation	1.00 LS	117,078.21 /LS	117,078
				2291 TRR Check Structure 1	1.00 LS	1,751,598.31 /LS	1,751,598
2292				**TRR Check Structure 2**			
	03.0			Concrete Work			
		03.11		Cast-In-Place Concrete, Grade Walls			
			MOA-03.25.017	2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	45.00 CY	2,556.59 /CY	115,047
			MOA-03.25.019	24" thick CIP Grade Wall - 13'-10" High - Below Grade	123.00 CY	2,558.86 /CY	314,739
			MOA-03.25.020	33" thick CIP Grade Wall - 13'-10" High - Below Grade	178.00 CY	2,112.04 /CY	375,943
				03.11 Cast-In-Place Concrete, Grade Walls	346.00 CY	2,328.70 /CY	805,729
		03.15		Cast-In-Place Concrete, Grade Beams			
			MOA-03.00.007	1'-6" wide, 2'-0" Deep Grade Beam	11.00 CY	1,916.54 /CY	21,082
				03.15 Cast-In-Place Concrete, Grade Beams	11.00 CY	1,916.54 /CY	21,082
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.010	3'-0" thick Slab on Grade	415.00 CY	1,180.94 /CY	490,091
				03.18 Cast-In-Place Concrete, Slabs on Grade	415.00 CY	1,180.94 /CY	490,091
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.004	1'-2" thick CIP Elevated Deck	65.00 CY	3,092.29 /CY	200,999
				03.24 Cast-In-Place Concrete, Elevated Slabs	65.00 CY	3,092.29 /CY	200,999
				03.0 Concrete Work	837.00 CY	1,813.50 /CY	1,517,901
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	89.00 LF	128.86 /LF	11,468
			05.00.004	Metal Grating	186.00 SF	187.64 /SF	34,901
				05.00 Metals	1.00 LS	46,369.42 /LS	46,369
				05.0 Metals	1.00 LS	46,369.42 /LS	46,369
	34.0			Transportation			
		34.00		Transportation			
			05.00.005	Vehicle Guard Rail	88.00 LF	327.92 /LF	28,857
				34.00 Transportation	1.00 LS	28,856.91 /LS	28,857
				34.0 Transportation	1.00 LS	28,856.91 /LS	28,857
	40.2			Water Control Gates			
		40.30		Water Control Gates			
			40.20.000	Water Control Gates	4.00 EA	46,646.99 /EA	186,588
				40.30 Water Control Gates	4.00 EA	46,646.99 /EA	186,588

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				40.2 Water Control Gates	4.00 EA	46,646.99 /EA	186,588
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			26.40.90	I&C	1.00 LS	117,078.20 /LS	117,078
				40.90 Instrumentation & Controls	1.00 LS	117,078.20 /LS	117,078
				40.9 Instrumentation	1.00 LS	117,078.20 /LS	117,078
				2292 TRR Check Structure 2	**1.00 LS**	**1,896,793.02 /LS**	**1,896,793**
2293				**TRR Check Structure 3**			
	03.0			Concrete Work			
		03.11		Cast-In-Place Concrete, Grade Walls			
			MOA-03.25.017	2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	45.00 CY	2,556.59 /CY	115,047
			MOA-03.25.019	24" thick CIP Grade Wall - 13'-10" High - Below Grade	371.07 CY	2,549.88 /CY	946,173
				03.11 Cast-In-Place Concrete, Grade Walls	416.07 CY	2,550.61 /CY	1,061,219
		03.15		Cast-In-Place Concrete, Grade Beams			
			MOA-03.00.007	1'-6" wide, 2'-0" Deep Grade Beam	15.00 CY	2,001.23 /CY	30,018
				03.15 Cast-In-Place Concrete, Grade Beams	15.00 CY	2,001.23 /CY	30,018
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.010	3'-0" thick Slab on Grade	553.00 CY	1,152.30 /CY	637,221
				03.18 Cast-In-Place Concrete, Slabs on Grade	553.00 CY	1,152.30 /CY	637,221
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.004	1'-2" thick CIP Elevated Deck	132.09 CY	2,906.98 /CY	383,991
				03.24 Cast-In-Place Concrete, Elevated Slabs	132.09 CY	2,906.98 /CY	383,991
				03.0 Concrete Work	1,116.16 CY	1,892.61 /CY	2,112,450
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	95.00 LF	128.86 /LF	12,241
			05.00.004	Metal Grating	366.00 SF	181.74 /SF	66,518
				05.00 Metals	1.00 LS	78,759.34 /LS	78,759
				05.0 Metals	1.00 LS	78,759.34 /LS	78,759
	34.0			Transportation			
		34.00		Transportation			
			05.00.005	Vehicle Guard Rail	169.00 LF	206.95 /LF	34,975
				34.00 Transportation	1.00 LS	34,974.67 /LS	34,975
				34.0 Transportation	1.00 LS	34,974.67 /LS	34,975
	40.2			Water Control Gates			
		40.30		Water Control Gates			
			40.20.000	Water Control Gates	8.00 EA	46,646.99 /EA	373,176
				40.30 Water Control Gates	8.00 EA	46,646.99 /EA	373,176
				40.2 Water Control Gates	8.00 EA	46,646.99 /EA	373,176
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			26.40.90	I&C	1.00 LS	117,078.20 /LS	117,078
				40.90 Instrumentation & Controls	1.00 LS	117,078.20 /LS	117,078
				40.9 Instrumentation	1.00 LS	117,078.20 /LS	117,078
				2293 TRR Check Structure 3	**1.00 LS**	**2,716,438.14 /LS**	**2,716,438**
2294				**TRR Check Structure 4**			
	03.0			Concrete Work			
		03.11		Cast-In-Place Concrete, Grade Walls			
			MOA-03.25.017	2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	45.00 CY	2,556.59 /CY	115,047
			MOA-03.25.019	24" thick CIP Grade Wall - 13'-10" High - Below Grade	371.07 CY	2,549.88 /CY	946,173
				03.11 Cast-In-Place Concrete, Grade Walls	416.07 CY	2,550.61 /CY	1,061,219
		03.15		Cast-In-Place Concrete, Grade Beams			
			MOA-03.00.007	1'-6" wide, 2'-0" Deep Grade Beam	15.00 CY	2,001.23 /CY	30,018
				03.15 Cast-In-Place Concrete, Grade Beams	15.00 CY	2,001.23 /CY	30,018
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			MOA-03.20.010	3'-0" thick Slab on Grade	553.00 CY	1,152.30 /CY	637,221
				03.18 Cast-In-Place Concrete, Slabs on Grade	553.00 CY	1,152.30 /CY	637,221
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			MOA-03.30.004	1'-2" thick CIP Elevated Deck	132.09 CY	2,906.98 /CY	383,991
				03.24 Cast-In-Place Concrete, Elevated Slabs	132.09 CY	2,906.98 /CY	383,991
				03.0 Concrete Work	1,116.16 CY	1,892.61 /CY	2,112,450
	05.0			Metals			
		05.00		Metals			
			05.00.000	Hand Railing	95.00 LF	128.86 /LF	12,241
			05.00.004	Metal Grating	366.00 SF	181.74 /SF	66,518
				05.00 Metals	1.00 LS	78,759.35 /LS	78,759
				05.0 Metals	1.00 LS	78,759.35 /LS	78,759
	26.0			Electrical Work			
		26.25		Electrical Equipment			
			26.20.DIST	Electrical Distribution Equipment	1.00 LS	48,397.14 /LS	48,397
				26.25 Electrical Equipment	1.00 LS	48,397.14 /LS	48,397
				26.0 Electrical Work	1.00 LS	48,397.14 /LS	48,397
	34.0			Transportation			
		34.00		Transportation			
			05.00.005	Vehicle Guard Rail	169.00 LF	206.95 /LF	34,975
				34.00 Transportation	1.00 LS	34,974.65 /LS	34,975
				34.0 Transportation	1.00 LS	34,974.65 /LS	34,975
	40.2			Water Control Gates			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
		40.30		Water Control Gates			
			40.20.000	Water Control Gates	8.00 EA	46,646.99 /EA	373,176
				40.30 Water Control Gates	8.00 EA	46,646.99 /EA	373,176
				40.2 Water Control Gates	8.00 EA	46,646.99 /EA	373,176
	40.9			Instrumentation			
		40.90		Instrumentation & Controls			
			26.40.90	I&C	1.00 LS	117,078.21 /LS	117,078
				40.90 Instrumentation & Controls	1.00 LS	117,078.21 /LS	117,078
				40.9 Instrumentation	1.00 LS	117,078.21 /LS	117,078
				2294 TRR Check Structure 4	1.00 LS	2,764,835.29 /LS	2,764,835

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	72,841,193		483,909.778	
Material	87,182,045			
Subcontractor	6,034,281			
Equipment	9,735,816		144,043.413	
Other	23,879,535			
Subtotal w/ OFCI Equipment	**199,672,870**	**199,672,870**		
Contractor Contingency	5,990,186			3.000 %
Design Contingency	35,941,117			18.000 %
Opinion of Probable Construction Costs	**41,931,303**	**241,604,173**		

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Jacobs

Detail Report
Project Name: TRR PGP
Project Number: D3380603
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/17/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
2000					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	99.63 /ea	9,963
					Miscellaneous Health & Safety Programs	1.00 ls			150,000	-	-	0	150,000.00 /ls	150,000	199,268.21 /ls	199,268
					Project Environmental Requirements	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	99,634.11 /ls	99,634
					01.01.05.00 General Conditions, Other	*24.00* MO			232,500				9,687.50 /MO	232,500	12,869.41 /MO	308,866
					01.I5.000 General Conditions, Other	*1.00* **LS**			**232,500**				**232,500.00 /LS**	**232,500**	**308,865.74 /LS**	**308,866**
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Executive	12.00 mo	1,920	374,400	-	-	-	-	31,200.00 /mo	374,400	39,185.79 /mo	470,229
					Project Manager	24.00 MO	3,840	599,040	-	-	-	-	24,960.00 /MO	599,040	31,348.63 /MO	752,367
					Superintendent	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	24,114.33 /mo	578,744
					Asst Superintendent (2)	48.00 mo	7,680	921,600	-	-	-	-	19,200.00 /mo	921,600	24,114.33 /mo	1,157,488
					Project Engineer	24.00 mo	3,840	441,600	-	-	-	-	18,400.00 /mo	441,600	23,109.57 /mo	554,630
					Field Engineer (2)	48.00 mo	7,680	729,600	-	-	-	-	15,200.00 /mo	729,600	19,090.51 /mo	916,345
					Admin Asst.	24.00 mo	3,840	249,600	-	-	-	-	10,400.00 /mo	249,600	13,061.93 /mo	313,486
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	30,142.92 /mo	361,715
					Site Skilled Labor (4)	96.00 mo	15,360	1,689,600	-	-	-	-	17,600.00 /mo	1,689,600	22,104.80 /mo	2,122,061
					01.01.06.01 GC Labor	24.00 MO	49,920	5,754,240					239,760.00 /MO	5,754,240	301,127.72 /MO	7,227,065
					01.I5.005 GC Labor	*1.00* **LS**	**49,920**	**5,754,240**					**5,754,240.00 /LS**	**5,754,240**	**7,227,065.20 /LS**	**7,227,065**
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,985.36 /ea	3,985
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.23 /mo	15,941
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,284.56 /ea	13,285
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.23 /mo	15,941
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,193.16 /mo	28,636
					Field Office Demob	2.00 ea	120	12,928	-		-	-	6,464.04 /ea	12,928	8,118.54 /ea	16,237
					Field Office Tear Down	2.00 ea	240	25,856	-		-	-	12,928.08 /ea	25,856	16,237.08 /ea	32,474
					Field Office Set-up	2.00 ea	360	38,784	-		21,600	-	30,192.12 /ea	60,384	37,919.94 /ea	75,840
					Field Office Mob	2.00 ea	120	12,928	-	0	-	-	6,464.04 /ea	12,928	8,118.54 /ea	16,237
					Conference Trailer Rent	24.00 MO		-	45,000	-	-	-	1,875.00 /MO	45,000	2,490.85 /MO	59,780
					Field Office Trailer Rent (60 x 12) (3)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,324.80 /mo	111,590
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,029.55 /ea	2,059
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	996.34 /mo	47,824
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,328.46 /ea	1,328
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	73,065.01 /ea	73,065
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,926.82 /ea	19,927
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	86,349.57 /ea	86,350
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	192.63 /mo	4,623
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,926.82 /ea	19,927
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,291.58 /mo	54,998
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	464.96 /mo	11,159
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,786.10 /mo	90,866
					01.01.06.00 Project Office	24.00 MO	840	90,497	476,230		44,400		25,463.61 /MO	611,127	33,419.75 /MO	802,074
					01.I5.010 Jobsite Office	*1.00* **LS**	**840**	**90,497**	**476,230**		**44,400**		**611,126.56 /LS**	**611,127**	**802,073.99 /LS**	**802,074**
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.96 /sy	71,650
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.96 /sy	4,478
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.96 /sy	8,956
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.76 /lf	23,617
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,924.03 /ea	11,848
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,871.13 /ea	9,742
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	5,048.13 /MO	121,155
					Guard Shack - Rent (2)	48.00 mo		-	57,600	-	-	-	1,200.00 /mo	57,600	1,594.15 /mo	76,519
					Site Security Services	24.00 mo		539,760	-		-	-	22,490.00 /mo	539,760	28,246.42 /mo	677,914
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	478.24 /ea	47,824
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS	517	598,819	214,200		13,584		826,602.69 /LS	826,603	1,053,705.10 /LS	1,053,705
					01.I5.011 Temporary Facilities	*1.00* **LS**	**517**	**598,819**	**214,200**		**13,584**		**826,602.69 /LS**	**826,603**	**1,053,705.10 /LS**	**1,053,705**
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	204,000	-	-	-	8,500.00 /MO	204,000	11,291.87 /MO	271,005
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,642.27 /ls	6,642
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	474.45 /mo	11,387
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,605.68 /ls	16,606
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,093.26 /mo	50,238
					Hand Washing Station (2)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	212.55 /mo	10,203
					Portable Toilets (2)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	498.17 /mo	23,912
					Janitorial Service (2)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	631.02 /mo	30,289
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS		40,000	278,551				318,551.45 /LS	318,551	420,281.20 /LS	420,281
					01.I5.012 Temporary Services	*1.00* **LS**		**40,000**	**278,551**				**318,551.45 /LS**	**318,551**	**420,281.20 /LS**	**420,281**
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	132.00 mo		-	428,670	-	-		3,247.50 /mo	428,670	4,314.16 /mo	569,469
					Construction Delivery - Air Fare (mgmt 1 flight per month)	132.00 ea		-	49,500	-	-	0	375.00 /ea	49,500	498.17 /ea	65,759
					Business travel - Air Fare	132.00 ea		-	72,600	-	-	0	550.00 /ea	72,600	730.65 /ea	96,446
					Business travel - Hotel	240.00 day		-	32,400	-	-	0	135.00 /day	32,400	179.34 /day	43,042
					Business travel - Rental Car	240.00 day		-	18,000	-	-	0	75.00 /day	18,000	99.63 /day	23,912
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	132.00 mo		-	594,000	-	-		4,500.00 /mo	594,000	5,978.05 /mo	789,102
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,978.05 /MO	143,473

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Personnel moving expense for 4 GC Management Staff	6.00 EA		-	33,000	-	-		5,500.00 /EA	33,000	7,306.50 /EA	43,839
					Personnel moving expense for 8 specialty workers	16.00 EA		-	80,000	-	-		5,000.00 /EA	80,000	6,642.27 /EA	106,276
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS			1,416,170				1,416,170.00 /LS	1,416,170	1,881,317.79 /LS	1,881,318
					01.I5.013 Travel	***1.00*** **LS**			**1,416,170**				**1,416,170.00 /LS**	**1,416,170**	**1,881,317.79 /LS**	**1,881,318**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	1,040	93,879	-	-	-	-	902.68 /wk	93,879	1,133.73 /wk	117,907
					Jobiste Daily Cleaning up	104.00 wk	2,080	187,757	16,640	-	-	-	1,965.36 /wk	204,397	2,480.00 /wk	257,920
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,594.15 /MO	38,260
					Dumpster Pulls	104.00 ea		-	80,600	-	-	-	775.00 /ea	80,600	1,029.55 /ea	107,073
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,362.28 /ls	38,362
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS	3,720	309,536	128,540				438,076.16 /LS	438,076	559,523.00 /LS	559,523
					01.I5.014 Site Cleanup	***1.00*** **LS**	**3,720**	**309,536**	**128,540**				**438,076.16 /LS**	**438,076**	**559,523.00 /LS**	**559,523**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,422.74 /ls	66,423
					Site Safety Training - non productive time	24.00 MO	10,920	985,727		-	-	-	41,071.94 /MO	985,727	51,584.50 /MO	1,238,028
					First Aid Consumables	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	664.23 /mo	15,941
					01.01.06.02 GC Temporary Facilities & Services	*1.00* LS	10,920	985,727	62,000				1,047,726.56 /LS	1,047,727	1,320,392.18 /LS	1,320,392
					01.I5.014A Site Safety	***1.00*** **LS**	**10,920**	**985,727**	**62,000**				**1,047,726.56 /LS**	**1,047,727**	**1,320,392.18 /LS**	**1,320,392**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (7.5)	180.00 mo		-	-	-	146,160	-	812.00 /mo	146,160	1,019.84 /mo	183,570
					Yard Pickup Truck (4)	96.00 mo		-		-	77,952	-	812.00 /mo	77,952	1,019.84 /mo	97,904
					Water Truck	24.00 mo		-	15,000	-	60,000	-	3,125.00 /mo	75,000	3,970.17 /mo	95,284
					Site Storage Connex boxes	5.00 ea		-	3,750	-	-	-	750.00 /ea	3,750	996.34 /ea	4,982
					Small Tools (~0.5% Labor)	1.00 ls		-	260,000	-	-	-	260,000.00 /ls	260,000	345,398.25 /ls	345,398
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	332.11 /MO	7,971
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	132.85 /mo	3,188
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,634.96 /ea	8,635
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS			293,650		284,112		577,762.00 /LS	577,762	746,932.56 /LS	746,933
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**293,650**		**284,112**		**577,762.00 /LS**	**577,762**	**746,932.56 /LS**	**746,933**
			01.I5.016		**Material Handling**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					150 tn Crawler, with Operator	24.00 MO	4,160	541,746	559,920	-	476,280	-	65,747.77 /MO	1,577,946	84,267.65 /MO	2,022,423
					Crane setup and removal	4.00 ea	180	23,441	6,000		35,622	-	16,265.63 /ea	65,063	20,537.64 /ea	82,151
					Crane Pads and Removal (5 m x 5 m)	4.00 ea	240	31,254	26,826		15,832	-	18,478.00 /ea	73,912	23,693.76 /ea	94,775
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS	4,580	596,441	592,746		527,734		1,716,920.88 /LS	1,716,921	2,199,349.07 /LS	2,199,349
					01.I5.016 Material Handling	***1.00*** **LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,199,349.07 /LS**	**2,199,349**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,632.25 /ea	16,632
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	365.33 /ea	7,307
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	464.96 /MO	11,159
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	33,211.37 /ea	33,211
					Miscellaneous third party testing and inspections	1.00 ls		250,000	-	0	-	-	250,000.00 /ls	250,000	313,988.70 /ls	313,989
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,537.29 /day	192,161
					01.01.06.04 GC Indirect Services & Support	24.00 MO	1,000	345,000	51,420		58,000		18,934.17 /MO	454,420	23,935.79 /MO	574,459
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**345,000**	**51,420**		**58,000**		**454,420.00 /LS**	**454,420**	**574,458.92 /LS**	**574,459**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	25,034.88 /MO	600,837
					Quality Mgr. (3)	24.00 mo	4,160	665,587	-	-	-	-	27,732.80 /mo	665,587	34,831.14 /mo	835,947
					01-01-06-01 GC Labor	24.00 MO	8,320	1,143,978					47,665.75 /MO	1,143,978	59,866.03 /MO	1,436,785
					01.I6.000 Quality Control	***1.00*** **LS**	**8,320**	**1,143,978**					**1,143,978.00 /LS**	**1,143,978**	**1,436,784.62 /LS**	**1,436,785**
					01.01 Construction Operations	*24.00* MO	79,817	9,864,237	3,746,007		927,830		605,753.10 /MO	14,538,074	772,114.56 /MO	18,530,749
					01.0 General Requirements	*24.00* MO	79,817	9,864,237	3,746,007		927,830		605,753.10 /MO	14,538,074	772,114.56 /MO	18,530,749
					2000 General Conditions	***1.00*** **LS**	**79,817**	**9,864,237**	**3,746,007**		**927,830**		**14,538,074.30 /LS**	**14,538,074**	**18,530,749.37 /LS**	**18,530,749**
2005					**Funks-TRR Access Road**											
	31.0				Earthwork											
		31.20			Earthworks, Site											
			31.05.000		**Funks-TRR Access Road**											
				31.20.07.15	Earthworks, Sitework, Borrow											
					Gravel Surfacing	71,393.04 tons	8,120	923,085	3,747,097	-	251,415	-	68.94 /tons	4,921,598	90.39 /tons	6,452,969
					31.20.07.15 Earthworks, Sitework, Borrow	71,393.04 tons	8,120	923,085	3,747,097		251,415		68.94 /tons	4,921,598	90.39 /tons	6,452,969
				31-05-16.10	Earthwork											
					Haul & Dispose off-site spoils	39,662.80 lcy	1,851	195,088	1,679,720	-	199,927	-	52.31 /lcy	2,074,735	68.77 /lcy	2,727,553
					Excavation	39,662.80 CY	2,380	274,406	-	-	349,812	-	15.74 /CY	624,218	19.77 /CY	783,989
					31-05-16.10 Earthwork	39,662.80 CY	4,231	469,495	1,679,720		549,739		68.05 /CY	2,698,953	88.53 /CY	3,511,543
					31.05.000 Funks-TRR Access Road	***1.00*** **LS**	**12,350**	**1,392,580**	**5,426,817**		**801,154**		**7,620,550.83 /LS**	**7,620,551**	**9,964,511.44 /LS**	**9,964,511**
					31.20 Earthworks, Site	*1.00* LS	12,350	1,392,580	5,426,817		801,154		7,620,550.83 /LS	7,620,551	9,964,511.44 /LS	9,964,511
					31.0 Earthwork	*1.00* LS	12,350	1,392,580	5,426,817		801,154		7,620,550.83 /LS	7,620,551	9,964,511.44 /LS	9,964,511
					2005 Funks-TRR Access Road	***1.00*** **LS**	**12,350**	**1,392,580**	**5,426,817**		**801,154**		**7,620,550.83 /LS**	**7,620,551**	**9,964,511.44 /LS**	**9,964,511**
2201					**Sitework**											
	26.0				Electrical Work											
		26.10			Site Electrical											
			26.02.FO		**Fiber Network**											
				26.00.99.00	Electrical, Other											
					Direct Burial, Armored, Loose Buffer Tube, Multi Mode-24 Fiber	2,500.00 lf	28	2,890	7,000	-	-	-	3.96 /lf	9,890	6.36 /lf	15,896
					Innerduct / Cable Chase - Indoor - Non-Plenum Rated - 1.50" ID	2,500.00 lf	125	13,136	3,550	-	-	-	6.67 /lf	16,686	10.49 /lf	26,221

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	**Electrical, Other**											
					Fiber Optic Anaerobic Connector, Multi Mode, ST Type - Epoxy & Polish	288.00 E	89	9,383	1,310	-	-	-	37.13 /E	10,693	58.10 /E	16,733
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**242**	**25,409**	**11,860**				**37,269.30 /LS**	**37,269**	**58,849.22 /LS**	**58,849**
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Electrical Trench, Encase, Backfill, Subcontract	1,100.00 LF	55	5,780		33,000	-	-	35.25 /LF	38,780	45.85 /LF	50,440
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.30 ton	39	4,576	4,950	-	-	-	2,886.69 /ton	9,526	4,600.31 /ton	15,181
					26.10.02.00 Site Electrical, Buried Conduit	**1,100.00 LF**	**94**	**10,356**	**4,950**	**33,000**			**43.91 /LF**	**48,306**	**59.66 /LF**	**65,621**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	2,400.00 LF	120	12,518	7,584	-	-	-	8.38 /LF	20,102	13.26 /LF	31,828
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	24.00 ea	21	2,225	552	-	-	-	115.73 /ea	2,777	181.73 /ea	4,362
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	48.00 ea	27	2,861	475	-	-	-	69.51 /ea	3,336	108.87 /ea	5,226
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	440.00 ea	86	8,956	783	-	-	-	22.13 /ea	9,739	34.57 /ea	15,211
					26.10.03.00 Site Electrical, Duct Bank	**2,400.00 LF**	**255**	**26,561**	**9,394**				**14.98 /LF**	**35,955**	**23.59 /LF**	**56,626**
				26.10.04.00	**Site Electrical, Manholes/Handholes**											
					Elctrc undrgr ducts and manhls,man holes,precast w/iron racks&pulling irons,ci frame and cover,6'10"7",excluds excavtn,backfll and cast place concrete	8.00 EA	249	25,049	34,200	-	10,306	-	8,694.31 /EA	69,554	13,837.88 /EA	110,703
					26.10.04.00 Site Electrical, Manholes/Handholes	**8.00 EA**	**249**	**25,049**	**34,200**		**10,306**		**8,694.31 /EA**	**69,554**	**13,837.88 /EA**	**110,703**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	8.00 ea	12	1,260	288	-	-	-	193.46 /ea	1,548	303.63 /ea	2,429
					Ground wire, copper wire, bare stranded, 4/0	11.00 clf	31	3,221	4,620	-	-	-	712.82 /clf	7,841	1,139.57 /clf	12,535
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**43**	**4,481**	**4,908**				**9,388.70 /LS**	**9,389**	**14,964.23 /LS**	**14,964**
					26.02.FO Fiber Network	**3,500.00 LF**	**882**	**91,855**	**65,313**	**33,000**	**10,306**		**57.28 /LF**	**200,474**	**87.65 /LF**	**306,763**
			26.02.LV		**LV UG Conduits**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Electrical Trench, Backfill, Subcontract	40.00 ft	2	210		1,200	-	-	35.25 /ft	1,410	45.85 /ft	1,834
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.90 ton	23	2,635	2,850	-	-	-	2,886.69 /ton	5,485	4,600.30 /ton	8,741
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	200.00 LF	10	1,043	632	-	-	-	8.38 /LF	1,675	13.26 /LF	2,652
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	7	742	184	-	-	-	115.73 /ea	926	181.73 /ea	1,454
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	8.00 ea	5	477	79	-	-	-	69.51 /ea	556	108.87 /ea	871
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	40.00 ea	8	814	71	-	-	-	22.13 /ea	885	34.57 /ea	1,383
					26.10.02.00 Site Electrical, Buried Conduit	**200.00 LF**	**54**	**5,921**	**3,816**	**1,200**			**54.69 /LF**	**10,937**	**84.67 /LF**	**16,935**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Electrcl undrgrnd ducts and manholes,hand holes,precast concrete,with concrete cover,4'x4'x4'deep,excludes excavation,backfill and cast place concrete	1.00 ea	14	1,597	1,775	-	141	-	3,513.03 /ea	3,513	5,594.81 /ea	5,595
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	80.00 LF	8	835	298	-	-	-	14.15 /LF	1,132	22.29 /LF	1,783
					26.10.03.00 Site Electrical, Duct Bank	**80.00 LF**	**22**	**2,432**	**2,073**		**141**		**58.06 /LF**	**4,645**	**92.22 /LF**	**7,378**
					26.02.LV LV UG Conduits	***1.00*** **LS**	**76**	**8,353**	**5,889**	**1,200**	**141**		**15,582.50 /LS**	**15,583**	**24,312.60 /LS**	**24,313**
			26.02.OFFSITE		**Primary to MH for OH MV by others (Dam/Inlet-Outlet)5**											
				26.10.03.00	**Site Electrical, Duct Bank**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	59	6,933	7,500	-	-	-	2,886.69 /ton	14,433	4,600.31 /ton	23,002
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	600.00 LF	30	3,130	1,896	-	-	-	8.38 /LF	5,026	13.26 /LF	7,957
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	28	2,967	736	-	-	-	115.73 /ea	3,703	181.73 /ea	5,815
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	32.00 ea	18	1,908	317	-	-	-	69.51 /ea	2,224	108.87 /ea	3,484
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	120.00 ea	23	2,443	214	-	-	-	22.13 /ea	2,656	34.57 /ea	4,148
					26.10.03.00 Site Electrical, Duct Bank	**600.00 LF**	**159**	**17,380**	**10,662**				**46.74 /LF**	**28,043**	**74.01 /LF**	**44,406**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 4/0, in conduit, excl splicing & terminations	78.00 clf	390	40,684	51,480	-	-	-	1,181.59 /clf	92,164	1,886.34 /clf	147,135
					26.15.01.00 Process Electrical, Wire/Cable	**78.00 clf**	**390**	**40,684**	**51,480**				**1,181.59 /clf**	**92,164**	**1,886.34 /clf**	**147,135**
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 3/4" diameter	6.00 ea	9	945	216	-	-	-	193.46 /ea	1,161	303.62 /ea	1,822
					Ground wire, copper wire, bare stranded, 4/0	5.00 clf	14	1,464	2,100	-	-	-	712.82 /clf	3,564	1,139.57 /clf	5,698
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**23**	**2,409**	**2,316**				**4,724.86 /LS**	**4,725**	**7,519.58 /LS**	**7,520**
					26.02.OFFSITE Primary to MH for OH MV by others (Dam/Inlet-Outlet)5	***1.00*** **LS**	**572**	**60,473**	**64,458**				**124,931.15 /LS**	**124,931**	**199,060.47 /LS**	**199,060**
			26.20.DB		**Site Ductbanks**											
				26.00.99.00	**Electrical, Other**											
					In addition to those itemized, lump sum allowance	1.00 ls	1,000	82,570	120,000		-	-	202,570.00 /ls	202,570	323,889.75 /ls	323,890
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**1,000**	**82,570**	**120,000**				**202,570.00 /LS**	**202,570**	**323,889.75 /LS**	**323,890**
					26.20.DB Site Ductbanks	***1.00*** **LS**	**1,000**	**82,570**	**120,000**				**202,570.00 /LS**	**202,570**	**323,889.75 /LS**	**323,890**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Site lighting, pole, base, circuit, controls, per each (qty assumed)	25.00 ea		-	-	125,000	-	-	5,000.00 /ea	125,000	6,279.77 /ea	156,994
					26.00.99.00 Electrical, Other	***1.00*** **LS**				**125,000**			**125,000.00 /LS**	**125,000**	**156,994.35 /LS**	**156,994**
					26.26.EXTLTG Exterior Lighting and Control	***1.00*** **LS**				**125,000**			**125,000.00 /LS**	**125,000**	**156,994.35 /LS**	**156,994**
			28.20.AC		**Access Control System**											
				26.00.99.00	**Electrical, Other**											
					Gate Operator, with card reader, power and control circuit, per each	2.00 ea		-	-	20,000	-	-	10,000.00 /ea	20,000	12,559.55 /ea	25,119

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.00.99.00 Electrical, Other	***1.00*** **LS**				**20,000**			**20,000.00 /LS**	**20,000**	**25,119.09 /LS**	**25,119**
					28.20.AC Access Control System	***1.00*** **LS**				**20,000**			**20,000.00 /LS**	**20,000**	**25,119.09 /LS**	**25,119**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				26.00.99.00	**Electrical, Other**											
					Cameras, installed on site ltg poles, assumed qty, per each	10.00 ea		-	-	75,000	-	-	7,500.00 /ea	75,000	9,419.66 /ea	94,197
					26.00.99.00 Electrical, Other	***1.00*** **LS**				**75,000**			**75,000.00 /LS**	**75,000**	**94,196.61 /LS**	**94,197**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**				**75,000**			**75,000.00 /LS**	**75,000**	**94,196.61 /LS**	**94,197**
					26.10 Site Electrical	***1.00*** **LS**	**2,531**	**243,251**	**255,660**	**254,200**	**10,446**		**763,557.33 /LS**	**763,557**	**1,130,336.03 /LS**	**1,130,336**
					26.0 Electrical Work	***1.00*** **LS**	**2,531**	**243,251**	**255,660**	**254,200**	**10,446**		**763,557.33 /LS**	**763,557**	**1,130,336.03 /LS**	**1,130,336**
	31.0				**Earthwork**											
		31.25			**Earthworks, Structural**											
			31.25.00.0010		**Structural Earthworks**											
				31.16.01.00	**Earthworks, Sheeting and Shoring**											
					Sheet Pile Wall	27,450.00 SF				1,235,250			45.00 /SF	1,235,250	56.52 /SF	1,551,418
					31.16.01.00 Earthworks, Sheeting and Shoring	**27,450.00 SF**				**1,235,250**			**45.00 /SF**	**1,235,250**	**56.52 /SF**	**1,551,418**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Structural Excavation, excludes sheeting or dewatering	135,000.00 CY	4,500	497,750	-	-	483,005	-	7.26 /CY	980,755	9.12 /CY	1,231,784
					Stockpile Excavated Spoils	135,000.00 cy	2,025	230,217	33,750	-	204,209	-	3.47 /cy	468,176	4.37 /cy	590,455
					31.25.01.00 Earthworks, Structural, Excavation	**135,000.00 CY**	**6,525**	**727,966**	**33,750**		**687,214**		**10.73 /CY**	**1,448,931**	**13.50 /CY**	**1,822,238**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	2,100.00 CY	458	44,455	73,500	-	2,799	-	57.50 /CY	120,754	74.76 /CY	156,990
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**2,100.00 CY**	**458**	**44,455**	**73,500**		**2,799**		**57.50 /CY**	**120,754**	**74.76 /CY**	**156,990**
				31.25.03.00	**Earthworks, Structural, Backfill**											
					Backfill, Native material	86,710.00 CY	6,503	739,335		-	163,953	-	10.42 /CY	903,289	13.08 /CY	1,134,490
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	69,370.00 cy	694	78,865	-	-	45,134	-	1.79 /cy	123,999	2.25 /cy	155,737
					Compaction, 4 passes, 13" to 18", 8" lifts, rammer tamper	17,340.00 cy	356	32,367	-	-	3,991	-	2.10 /cy	36,357	2.63 /cy	45,663
					Compaction, water for, 6000 gallon wagon, 6 mile haul	86,710.00 cy	434	43,001	104,052	-	28,143	-	2.02 /cy	175,197	2.62 /cy	227,583
					31.25.03.00 Earthworks, Structural, Backfill	**86,710.00 CY**	**7,986**	**893,568**	**104,052**		**241,222**		**14.29 /CY**	**1,238,841**	**18.03 /CY**	**1,563,472**
				31.25.05.00	**Earthworks, Structural, Hauling and Disposal**											
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	48,290.00 CY	4,953	491,221	-	-	451,295	-	19.52 /CY	942,516	24.51 /CY	1,183,757
					Load excavated spoils	48,290.00 cy	604	68,625		-	60,872	-	2.68 /cy	129,496	3.37 /cy	162,642
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	**48,290.00 CY**	**5,556**	**559,845**			**512,167**		**22.20 /CY**	**1,072,012**	**27.88 /CY**	**1,346,399**
					31.25.00.0010 Structural Earthworks	***1.00*** **LS**	**20,526**	**2,225,834**	**211,302**	**1,235,250**	**1,443,402**		**5,115,788.20 /LS**	**5,115,788**	**6,440,518.02 /LS**	**6,440,518**
					31.25 Earthworks, Structural	**272,100.00 CY**	**20,526**	**2,225,834**	**211,302**	**1,235,250**	**1,443,402**		**18.80 /CY**	**5,115,788**	**23.67 /CY**	**6,440,518**
		31.30			**Site Specialties**											
			32.05.002		**Soil Nail Wall/Ret Wall (D4/MPG-2205-C-3001), Detail 52 of 203**											
				03.60.10.00	**Concrete Miscellaneous Items**											
					4" Temp. shotcrete facing with mesh, 4x4 W4.0xW4.0	14,250.00 sf	912	88,769	69,683	-	20,576	-	12.56 /sf	179,027	16.13 /sf	229,902
					03.60.10.00 Concrete Miscellaneous Items	***1.00*** **LS**	**912**	**88,769**	**69,683**		**20,576**		**179,027.36 /LS**	**179,027**	**229,902.25 /LS**	**229,902**
				31.20.07.15	**Earthworks, Sitework, Borrow**											
					Granular fill	2,533.00 tons	288	32,751	132,946	-	8,920	-	68.94 /tons	174,617	90.39 /tons	228,949
					31.20.07.15 Earthworks, Sitework, Borrow	***1,700.00*** **tons**	**288**	**32,751**	**132,946**		**8,920**		**102.72 /tons**	**174,617**	**134.68 /tons**	**228,949**
				31.30.06.00	**Site Specialties, Rock Anchors/Tie-Backs**											
					Self-Drilling rock bolts, assumed 20' long, for 2" diam. anchor bar, A1-A2/37 of 176, incl. bearing plates	380.00 EA	18,275	1,960,193	861,628	-	762,528	-	9,432.50 /EA	3,584,348	12,011.18 /EA	4,564,247
					Allow - Welded wire wall anchors, L = 4.8-ft/ea	760.00 EA	5,514	591,497	312,000	-	230,096	-	1,491.57 /EA	1,133,593	1,903.11 /EA	1,446,361
					31.30.06.00 Site Specialties, Rock Anchors/Tie-Backs	**1,140.00 EA**	**23,789**	**2,551,689**	**1,173,628**		**992,624**		**4,138.54 /EA**	**4,717,941**	**5,272.46 /EA**	**6,010,608**
				32.50.01.00	**Site Improvements, Retaining Walls**											
					12" CIP Reinf concrete wall facing includes excavation, backfill, formwork, reinforcing	14,250.00 SF	7,895	737,488	331,313	-	95,992	-	81.74 /SF	1,164,793	104.35 /SF	1,486,947
					32.50.01.00 Site Improvements, Retaining Walls	**14,250.00 SF**	**7,895**	**737,488**	**331,313**		**95,992**		**81.74 /SF**	**1,164,793**	**104.35 /SF**	**1,486,947**
					32.05.002 Soil Nail Wall/Ret Wall (D4/MPG-2205-C-3001), Detail 52 of 203	**14,250.00 SF**	**32,884**	**3,410,697**	**1,707,569**		**1,118,112**		**437.64 /SF**	**6,236,378**	**558.34 /SF**	**7,956,407**
					31.30 Site Specialties	***1.00*** **LS**	**32,884**	**3,410,697**	**1,707,569**		**1,118,112**		**6,236,377.66 /LS**	**6,236,378**	**7,956,407.03 /LS**	**7,956,407**
					31.0 Earthwork	***1.00*** **LS**	**53,409**	**5,636,531**	**1,918,871**	**1,235,250**	**2,561,514**		**11,352,165.86 /LS**	**11,352,166**	**14,396,925.05 /LS**	**14,396,925**
	32.0				**Exterior Improvements**											
		31.40			**Paving**											
			32.05.000		**4" Asphalt & 12" Aggregate Base (access road - AC pavement)**											
				32.40.00.00	**Site Improvements, Asphalt Paving**											
					Aggregate base course for Asphalt Paving, bank run gravel, spread and compacted, 9" deep	33,298.30 sy	217	25,339	439,538	-	19,774	-	14.55 /sy	484,651	19.24 /sy	640,566
					Asphalt paving, binder course, 2" thick	33,298.30 sy	462	46,464	258,062	-	16,681	-	9.65 /sy	321,207	12.68 /sy	422,130
					Asphalt paving, wearing course, 4" thick	33,298.30 SY	772	79,256	571,066	-	28,676	-	20.39 /SY	678,998	26.85 /SY	894,193
					Haul & Dispose off-site spoils	14,799.30 lcy	691	72,793	626,750	-	74,599	-	52.31 /lcy	774,142	68.77 /lcy	1,017,726
					Excavation	14,799.30 bcy	888	102,389	-	-	130,525	-	15.74 /bcy	232,913	19.77 /bcy	292,528
					32.40.00.00 Site Improvements, Asphalt Paving	**33,298.30 SY**	**3,030**	**326,240**	**1,895,416**		**270,255**		**74.84 /SY**	**2,491,910**	**98.12 /SY**	**3,267,144**
					32.05.000 4" Asphalt & 12" Aggregate Base (access road - AC pavement)	**33,298.30 SY**	**3,030**	**326,240**	**1,895,416**		**270,255**		**74.84 /SY**	**2,491,910**	**98.12 /SY**	**3,267,144**
					31.40 Paving	**33,298.30 SY**	**3,030**	**326,240**	**1,895,416**		**270,255**		**74.84 /SY**	**2,491,910**	**98.12 /SY**	**3,267,144**
		31.45			**Fencing**											
			32.05.004		**Misc Site Improvements**											
				32.45.02.00	**Fencing, Steel Gates & Steel Fence**											
					PG&E POI Substation Fence	1,993.00 LF	1,834	171,626	361,235	-	71,953	-	303.47 /LF	604,813	394.28 /LF	785,807
					Substation/Switchyard Fence, 3231-411	2,511.00 LF	2,311	216,233	455,123	-	90,654	-	303.47 /LF	762,010	394.28 /LF	990,046
					Security Fence	1,445.00 LF	1,330	124,435	261,909	-	52,168	-	303.47 /LF	438,512	394.28 /LF	569,740
					Single Swing Gate, 4-ft wide	2.00 ea	16	1,475	2,500	-	-	-	1,987.68 /ea	3,975	2,587.07 /ea	5,174
					Switchyard Pedestrian Gate	1.00 ea	8	738	1,250	-	-	-	1,987.68 /ea	1,988	2,587.07 /ea	2,587
					Double Swing Gate, 20-ft wide	2.00 ea	48	4,426	17,000	-	-	-	10,713.04 /ea	21,426	14,071.34 /ea	28,143
					Double Swing Gate, 30-ft wide	3.00 ea	90	8,299	37,500	-	-	-	15,266.30 /ea	45,799	20,080.03 /ea	60,240
					32.45.02.00 Fencing, Steel Gates & Steel Fence	**5,949.00 LF**	**5,636**	**527,233**	**1,136,516**		**214,775**		**315.77 /LF**	**1,878,523**	**410.45 /LF**	**2,441,738**
				32.45.05.00	**Guardrail**											
					Metal beam guardrail w/handrail	202.00 LF	178	16,617	15,404	-	3,749	-	177.08 /LF	35,770	227.93 /LF	46,042
					32.45.05.00 Guardrail	**202.00 LF**	**178**	**16,617**	**15,404**		**3,749**		**177.08 /LF**	**35,770**	**227.93 /LF**	**46,042**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					32.05.004 Misc Site Improvements	***1.00*** **LS**	**5,814**	**543,850**	**1,151,920**		**218,524**		**1,914,293.43 /LS**	**1,914,293**	**2,487,780.17 /LS**	**2,487,780**
					31.45 Fencing	**6,151.00 LF**	**5,814**	**543,850**	**1,151,920**		**218,524**		**311.22 /LF**	**1,914,293**	**404.45 /LF**	**2,487,780**
					32.0 Exterior Improvements	***1.00*** **LS**	**8,844**	**870,090**	**3,047,336**		**488,778**		**4,406,203.84 /LS**	**4,406,204**	**5,754,924.57 /LS**	**5,754,925**
	33.0				**Utilities**											
		33.02			**Buried Process Pipe, Ductile Iron**											
			MOA-33.25.008		**Fire Protection Yard Piping**											
				33.00.04.10	**Buried Pipe, Ductile Iron, 10"**											
					10" pipe, DI, RJ, excav/bkfill included, 350#	1,094.00 LF	525	62,764	43,202	-	25,029	-	119.74 /LF	130,995	153.25 /LF	167,657
					10" DIP Fitting Allowance	1.00 ls		8,000	10,000	-	2,000	-	20,000.00 /ls	20,000	25,844.11 /ls	25,844
					Water Utility Distribution Fire Hydrants, two way, 6'-0" depth, 5-1/4" valve, includes mechanical joints, excludes excavation and backfill	5.00 ea	140	13,682	50,000	-	984	-	12,933.16 /ea	64,666	16,968.46 /ea	84,842
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	5,000	-	1,000	-	10,000.00 /ls	10,000	12,922.05 /ls	12,922
					33.00.04.10 Buried Pipe, Ductile Iron, 10"	**1,094.00 LF**	**665**	**88,446**	**108,202**		**29,013**		**206.27 /LF**	**225,661**	**266.24 /LF**	**291,265**
				33.00.04.12	**Buried Pipe, Ductile Iron, 12"**											
					12" DIP Fitting Allowance	1.00 ls		5,000	6,000	-	1,000	-	12,000.00 /ls	12,000	15,506.45 /ls	15,506
					12" pipe, DI, RJ, excav/bkfill included, 350#	584.00 LF	280	33,505	29,597	-	13,361	-	130.93 /LF	76,463	168.12 /LF	98,180
					Miscellaneous Items and Consumables Allowance	1.00 ls		2,000	3,000	-	0	-	5,000.00 /ls	5,000	6,497.26 /ls	6,497
					33.00.04.12 Buried Pipe, Ductile Iron, 12"	**584.00 LF**	**280**	**40,505**	**38,597**		**14,361**		**160.04 /LF**	**93,463**	**205.79 /LF**	**120,184**
					MOA-33.25.008 Fire Protection Yard Piping	**1,678.00 LF**	**945**	**128,951**	**146,799**		**43,374**		**190.18 /LF**	**319,124**	**245.20 /LF**	**411,449**
					33.02 Buried Process Pipe, Ductile Iron	**1,678.00 LF**	**945**	**128,951**	**146,799**		**43,374**		**190.18 /LF**	**319,124**	**245.20 /LF**	**411,449**
		33.03			**Buried Process Pipe, Carbon Steel**											
			MOA-33.25.001		**144" Dia WSP Yard Piping**											
				33.00.05.144	**Buried Pipe, Carbon Steel, 144"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	7,430.00 cy	186	20,546	-	-	19,937	-	5.45 /cy	40,483	6.84 /cy	50,845
					Ripping till, boulder clay/hardpan, medium hard, adverse conditions, 300 H.P., dozer with single shank ripper	29,718.00 cy	708	80,446	-	-	80,076	-	5.40 /cy	160,522	6.78 /cy	201,608
					Excavation, bulk, scrapers, bank measure, sandy clay & loam, 5000' haul, 21 C.Y. bucket, self propelled scrapers, 1/4 push dozer, 80% Total Excavation Volume	29,718.00 CY	1,238	142,788	-	-	239,827	-	12.87 /CY	382,615	16.17 /CY	480,547
					Trench Stabilization, Geotextile Wrapped	1,833.00 cy	122	13,893	73,320	-	4,621	-	50.10 /cy	91,834	65.82 /cy	120,655
					Pipe bedding and zone, CLSM	10,225.00 cy	682	65,269	766,875	-	6,401	-	82.01 /cy	838,545	108.44 /cy	1,108,773
					Backfill native material	19,591.00 cy	1,469	167,043		-	37,043	-	10.42 /cy	204,086	13.08 /cy	256,323
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	17,555.00 cy	1,800	178,575	-	-	164,061	-	19.52 /cy	342,635	24.51 /cy	430,335
					Load excavated spoils	17,555.00 cy	165	18,710		-	16,597	-	2.01 /cy	35,307	2.53 /cy	44,344
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	19,591.00 cy	196	22,272	-	-	12,746	-	1.79 /cy	35,019	2.25 /cy	43,982
					Compaction, water for, 6000 gallon wagon, 6 mile haul	19,591.00 cy	98	9,716	23,509	-	6,359	-	2.02 /cy	39,583	2.62 /cy	51,419
					Piping, WSP 0.688" Wt Polyurethane Lined and Coated, 144" diameter	1,321.00 LF	6,165	642,247	2,688,235	-	131,181	-	2,620.49 /LF	3,461,663	3,438.75 /LF	4,542,589
					Dewatering Allowance	21.22 msf				63,660			3,000.00 /msf	63,660	3,767.86 /msf	79,954
					Erosion and Dust Controls Allowance	1.00 ls				150,000			150,000.00 /ls	150,000	188,393.22 /ls	188,393
					144" Fitting, Elbows	4.00 ea	448	46,673	224,000	-	19,066	-	72,434.95 /ea	289,740	95,035.01 /ea	380,140
					144" Fitting, Reducer	2.00 ea	112	11,668	24,000	-	4,767	-	20,217.47 /ea	40,435	26,262.23 /ea	52,524
					33.00.05.144 Buried Pipe, Carbon Steel, 144"	**1,321.00 LF**	**13,388**	**1,419,847**	**3,799,939**	**213,660**	**742,682**		**4,675.34 /LF**	**6,176,128**	**6,080.57 /LF**	**8,032,433**
					MOA-33.25.001 144" Dia WSP Yard Piping	**1,321.00 LF**	**13,388**	**1,419,847**	**3,799,939**	**213,660**	**742,682**		**4,675.34 /LF**	**6,176,128**	**6,080.57 /LF**	**8,032,433**
			MOA-33.25.006		**90" Dia WSP Yard Piping**											
				33.00.05.090	**Buried Pipe, Carbon Steel, 90"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	16,738.00 cy	418	46,285	-	-	44,914	-	5.45 /cy	91,199	6.84 /cy	114,542
					Trench Stabilization, Geotextile Wrapped	1,033.00 cy	69	7,829	41,320	-	2,604	-	50.10 /cy	51,754	65.82 /cy	67,996
					Pipe bedding and zone, CLSM	5,759.00 cy	384	36,761	431,925	-	3,605	-	82.01 /cy	472,292	108.44 /cy	624,492
					Backfill native material	11,034.00 cy	828	94,082		-	20,863	-	10.42 /cy	114,945	13.08 /cy	144,366
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	9,887.00 cy	1,014	100,574	-	-	92,399	-	19.52 /cy	192,973	24.51 /cy	242,365
					Load excavated spoils	9,887.00 cy	93	10,538		-	9,347	-	2.01 /cy	19,885	2.53 /cy	24,975
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	11,034.00 cy	110	12,544	-	-	7,179	-	1.79 /cy	19,723	2.25 /cy	24,772
					Compaction, water for, 6000 gallon wagon, 6 mile haul	11,034.00 cy	55	5,472	13,241	-	3,581	-	2.02 /cy	22,294	2.62 /cy	28,960
					Piping, WSP Polyurethane Lined and Coated, 90" diameter	830.00 LF	3,873	403,532	1,070,700	-	82,422	-	1,875.49 /LF	1,556,654	2,449.05 /LF	2,032,713
					Piping, WSP 90" diameter fittings	10.00 ea	560	58,342	240,000	-	23,833	-	32,217.47 /ea	322,175	42,203.69 /ea	422,037
					Dewatering Allowance	11.98 msf				35,940			3,000.00 /msf	35,940	3,767.86 /msf	45,139
					33.00.05.090 Buried Pipe, Carbon Steel, 90"	**830.00 LF**	**7,404**	**775,958**	**1,797,186**	**35,940**	**290,749**		**3,493.78 /LF**	**2,899,833**	**4,545.01 /LF**	**3,772,356**
					MOA-33.25.006 90" Dia WSP Yard Piping	**830.00 LF**	**7,404**	**775,958**	**1,797,186**	**35,940**	**290,749**		**3,493.78 /LF**	**2,899,833**	**4,545.01 /LF**	**3,772,356**
			MOA-33.25.106		**60" Dia WSP Yard Piping**											
				33.00.05.060	**Buried Pipe, Carbon Steel, 60"**											
					Excavating, trench or continuous footing, common earth, 2-1/2 C.Y. excavator, excludes dewatering, 20% excavation Volume	5,647.00 cy	141	15,616	-	-	15,153	-	5.45 /cy	30,768	6.84 /cy	38,644
					Trench Stabilization, Geotextile Wrapped	349.00 cy	23	2,645	13,960	-	880	-	50.10 /cy	17,485	65.82 /cy	22,972
					Pipe bedding and zone, CLSM	1,943.00 cy	130	12,403	145,725	-	1,216	-	82.01 /cy	159,344	108.44 /cy	210,694
					Backfill native material	3,723.00 cy	279	31,744		-	7,040	-	10.42 /cy	38,784	13.08 /cy	48,711
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	3,336.00 cy	342	33,935	-	-	31,177	-	19.52 /cy	65,111	24.51 /cy	81,777
					Load excavated spoils	3,336.00 cy	31	3,556		-	3,154	-	2.01 /cy	6,709	2.53 /cy	8,427
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	3,723.00 cy	37	4,233	-	-	2,422	-	1.79 /cy	6,655	2.25 /cy	8,358
					Compaction, water for, 6000 gallon wagon, 6 mile haul	3,723.00 cy	19	1,846	4,468	-	1,208	-	2.02 /cy	7,522	2.62 /cy	9,772
					Piping, WSP Polyurethane Lined and Coated, 60" diameter	350.00 LF	795	82,872	306,250	-	17,378	-	1,161.43 /LF	406,500	1,522.14 /LF	532,749
					Piping, WSP 60" diameter fittings	10.00 ea	280	29,171	60,000	-	11,916	-	10,108.74 /ea	101,087	13,131.12 /ea	131,311
					Dewatering Allowance	5.05 msf				15,150			3,000.00 /msf	15,150	3,767.86 /msf	19,028
					33.00.05.060 Buried Pipe, Carbon Steel, 60"	**350.00 LF**	**2,078**	**218,020**	**530,403**	**15,150**	**91,545**		**2,443.19 /LF**	**855,117**	**3,178.41 /LF**	**1,112,443**
					MOA-33.25.106 60" Dia WSP Yard Piping	**350.00 LF**	**2,078**	**218,020**	**530,403**	**15,150**	**91,545**		**2,443.19 /LF**	**855,117**	**3,178.41 /LF**	**1,112,443**
					33.03 Buried Process Pipe, Carbon Steel	**2,501.00 LF**	**22,871**	**2,413,825**	**6,127,528**	**264,750**	**1,124,976**		**3,970.84 /LF**	**9,931,078**	**5,164.83 /LF**	**12,917,231**
					33.0 Utilities	**4,179.00 LF**	**23,816**	**2,542,776**	**6,274,327**	**264,750**	**1,168,350**		**2,452.79 /LF**	**10,250,202**	**3,189.44 /LF**	**13,328,679**
					2201 Sitework	***1.00*** **LS**	**88,600**	**9,292,648**	**11,496,193**	**1,754,200**	**4,229,088**		**26,772,129.52 /LS**	**26,772,130**	**34,610,865.10 /LS**	**34,610,865**
2210					**13.8kV OH to Check Structures 1, 4**											
	26.0				**Electrical Work**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
		26.15			Process Electrical											
			26.20.DIST		Electrical Distribution Equipment											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	28.00 ea	98	9,831	-	-	2,154	-	428.04 /ea	11,985	666.02 /ea	18,649
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	20.00 ea	250	25,077	2,380	-	5,494	-	1,647.56 /ea	32,951	2,572.15 /ea	51,443
					Misc risers, UG to equipment	1.00 LS	240	24,074	15,000	-	176	-	39,249.50 /LS	39,250	62,157.95 /LS	62,158
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	28.00 ea	215	24,085	9,660	-	2,120	-	1,280.86 /ea	35,864	2,017.97 /ea	56,503
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	56.00 ea	204	21,243	12,432	-	-	-	601.33 /ea	33,675	951.74 /ea	53,298
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	7.50 wmil	337	33,777	164,250	-	7,401	-	27,390.33 /wmil	205,427	44,205.86 /wmil	331,544
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**1,344**	**138,086**	**203,722**		**17,344**		**359,152.18 /LS**	**359,152**	**573,594.40 /LS**	**573,594**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**1,344**	**138,086**	**203,722**		**17,344**		**359,152.18 /LS**	**359,152**	**573,594.40 /LS**	**573,594**
					26.15 Process Electrical	***1.00*** **LS**	**1,344**	**138,086**	**203,722**		**17,344**		**359,152.18 /LS**	**359,152**	**573,594.40 /LS**	**573,594**
					26.0 Electrical Work	***1.00*** **LS**	**1,344**	**138,086**	**203,722**		**17,344**		**359,152.18 /LS**	**359,152**	**573,594.40 /LS**	**573,594**
					2210 13.8kV OH to Check Structures 1, 4	***1.00*** **LS**	**1,344**	**138,086**	**203,722**		**17,344**		**359,152.18 /LS**	**359,152**	**573,594.40 /LS**	**573,594**
2255					**TRR PGP Pumping Plant**											
	03.0				**Concrete Work**											
		03.13			**Cast-In-Place Concrete, Continuous Footings**											
			MOA-03.00.001		**3'-0" wide, 18" thick Continuous Footing**											
				03.10.02.18	**Cast-In-Place Concrete, Continuous Footings, 18" thick**											
					Fine grade, for slab on grade, by hand	6.00 sf	0	4	0	-	-	-	0.66 /sf	4	0.97 /sf	6
					Fill, gravel subbase, under building slab on grade	0.11 cy	0	5	3	-	-	-	73.24 /cy	8	108.56 /cy	12
					Concrete pumping, subcontract, all inclusive price	0.33 cy		-	-	8	-	-	25.00 /cy	8	36.43 /cy	12
					Forms in place, continuous footing, sides	6.00 sf	1	65	6	-	-	-	11.83 /sf	71	17.30 /sf	104
					Reinforcing in place, A615 Gr 60, priced per lbs.	41.67 lb		-	31	17	-	-	1.15 /lb	48	1.73 /lb	72
					Concrete, ready mix, 4500 psi	0.33 CY		-	73	-	-	-	220.00 /CY	73	336.22 /CY	112
					Add for concrete waste, 4500 psi	0.02 cy		-	4	-	-	-	220.00 /cy	4	337.65 /cy	6
					Placing concrete, concrete pump	0.33 cy	0	44	-	-	-	-	131.60 /cy	44	191.56 /cy	64
					Finishing footings, screed finish	6.00 sf	0	8	-	-	-	-	1.37 /sf	8	2.00 /sf	12
					Curing, membrane spray	6.00 sf	0	1	0	-	-	-	0.22 /sf	1	0.32 /sf	2
					03.10.02.18 Cast-In-Place Concrete, Continuous Footings, 18" thick	**0.33 CY**	**1**	**127**	**118**	**25**			**809.97 /CY**	**270**	**1,204.89 /CY**	**401**
					MOA-03.00.001 3'-0" wide, 18" thick Continuous Footing	**0.33 CY**	**1**	**127**	**118**	**25**			**809.97 /CY**	**270**	**1,204.89 /CY**	**401**
					03.13 Cast-In-Place Concrete, Continuous Footings	**0.33 CY**	**1**	**127**	**118**	**25**			**809.97 /CY**	**270**	**1,204.89 /CY**	**401**
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			03.08.010		**Slab on Grade, 18" Thick**											
				03.10.05.18	**Cast-In-Place Concrete, Slabs on Grade, 18" thick**											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	872.00 sfca	80	8,328	2,067	-	-	-	11.92 /sfca	10,395	17.53 /sfca	15,284
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	28.50 ton	456	53,353	42,750	-	-	-	3,372.03 /ton	96,103	5,018.28 /ton	143,021
					Reinforcing in place, unloading & sorting, add to above - slabs	28.50 ton	16	1,903	-	-	661	-	89.94 /ton	2,563	130.95 /ton	3,732
					Reinforcing in place, crane cost for handling, add to above, slabs	28.50 ton	17	2,068	-	-	718	-	97.76 /ton	2,786	142.34 /ton	4,057
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	333.00 cy		-	73,260	-	-	-	220.00 /cy	73,260	336.26 /cy	111,975
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	323.00 CY	112	10,699	-	-	1,574	-	38.00 /CY	12,273	55.32 /CY	17,869
					Concrete finishng,floors,basic finishng for unspecfd flatwork,bull float,manual float&manual steel trowel,excludes placing,striking off&consolidating	5,784.00 sf	110	10,011	-	-	-	-	1.73 /sf	10,011	2.52 /sf	14,575
					Curing, sprayed membrane curing compound	57.84 csf	10	886	925	-	-	-	31.33 /csf	1,812	46.77 /csf	2,705
					Fine grading, fine grade for slab on grade, machine	642.67 sy	10	1,068	-	-	688	-	2.73 /sy	1,756	3.98 /sy	2,556
					03.10.05.18 Cast-In-Place Concrete, Slabs on Grade, 18" thick	**323.00 CY**	**810**	**88,316**	**119,002**		**3,641**		**653.12 /CY**	**210,959**	**977.63 /CY**	**315,774**
					03.08.010 Slab on Grade, 18" Thick	**323.00 CY**	**810**	**88,316**	**119,002**		**3,641**		**653.12 /CY**	**210,959**	**977.63 /CY**	**315,774**
			MOA-03.20.003		**6'-6" thick Mat Slab on Grade**											
				03.10.05.78	**Cast-In-Place Concrete, Slabs on Grade, 78" thick**											
					Fine grade, for slab on grade, by hand	21,329.00 sf	149	13,495	640	-	-	-	0.66 /sf	14,135	0.97 /sf	20,627
					Fill, gravel subbase, under building slab on grade	1,579.93 cy	790	71,404	44,238	-	-	-	73.19 /cy	115,642	108.60 /cy	171,577
					Concrete pumping, subcontract, all inclusive price	5,135.00 cy		-	-	128,375	-	-	25.00 /cy	128,375	36.40 /cy	186,908
					Base slab edge forms, > 48"	6,924.50 sf	1,731	187,552	10,041	-	-	-	28.54 /sf	197,592	41.65 /sf	288,413
					Base slab sump forms	64.00 sf	16	1,733	80	-	-	-	28.34 /sf	1,813	41.35 /sf	2,646
					Starter wall form	2,568.00 sf	385	41,733	2,568	-	-	-	17.25 /sf	44,301	25.19 /sf	64,686
					Keyway form	1,259.00 lf	189	20,460	630	-	-	-	16.75 /lf	21,090	24.43 /lf	30,751
					Expansion joint material, closed cell neoprene, 1"	16,500.00 sf	495	53,629	99,000	-	-	-	9.25 /sf	152,629	13.90 /sf	229,398
					Waterstop, hydro-flex	1,259.00 lf	6	682	5,036	-	-	-	4.54 /lf	5,718	6.90 /lf	8,690
					Concrete, ready mix, 4500 psi	5,135.00 CY		-	1,129,700	-	-	-	220.00 /CY	1,129,700	336.26 /CY	1,726,695
					Add for concrete waste, 4500 psi	131.00 cy		-	28,820	-	-	-	220.00 /cy	28,820	336.26 /cy	44,050
					Finishing floors, monolithic, trowel finish (machine)	21,329.00 sf	427	38,965	427	-	-	-	1.85 /sf	39,391	2.69 /sf	57,383
					Construction Joint Prep.	8,250.00 sf	660	59,657	413	-	-	-	7.28 /sf	60,069	10.60 /sf	87,488
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	2,000.00 lf		-	-	6,000	-	-	3.00 /lf	6,000	4.37 /lf	8,736
					Contraction Joint Option, Slabs, Preformed Joint	2,000.00 lf		-	4,000	-	-	-	2.00 /lf	4,000	3.06 /lf	6,114
					Curing, membrane spray	21,329.00 sf	43	3,856	853	-	-	-	0.22 /sf	4,709	0.32 /sf	6,918
					Perimeter insulation, polystyrene, 2" thick, R8	6,924.50 sf	83		4,016	-	-	-	0.58 /sf	4,016	0.89 /sf	6,139
					Polyethelene vapor barrier, 10 mil thick	213.29 sq	47	5,055	2,261	-	-	-	34.30 /sq	7,316	50.71 /sq	10,816
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	385.25 ton	6,164	721,200	577,875	-	-	-	3,372.03 /ton	1,299,075	5,018.28 /ton	1,933,291
					Reinforcing in place, unloading & sorting, add to above - slabs	385.25 ton	216	25,718	-	-	8,933	-	89.94 /ton	34,651	130.95 /ton	50,450
					Reinforcing steel, crane cost for handling, average, add	385.25 ton	235	27,954	-	-	9,710	-	97.76 /ton	37,664	142.34 /ton	54,837
					03.10.05.78 Cast-In-Place Concrete, Slabs on Grade, 78" thick	**5,135.00 CY**	**11,635**	**1,273,093**	**1,910,596**	**134,375**	**18,643**		**649.80 /CY**	**3,336,707**	**973.05 /CY**	**4,996,613**
					MOA-03.20.003 6'-6" thick Mat Slab on Grade	**5,135.00 CY**	**11,635**	**1,273,093**	**1,910,596**	**134,375**	**18,643**		**649.80 /CY**	**3,336,707**	**973.05 /CY**	**4,996,613**
			MOA-03.20.004		**6'-6" thick Inclined Mat Slab on Grade**											
				03.10.05.78	**Cast-In-Place Concrete, Slabs on Grade, 78" thick**											
					Fine grade, for slab on grade, by hand	12,759.00 sf	89	8,073	383	-	-	-	0.66 /sf	8,456	0.97 /sf	12,339
					Fill, gravel subbase, under building slab on grade	945.11 cy	473	42,714	26,463	-	-	-	73.19 /cy	69,177	108.60 /cy	102,637
					Concrete pumping, subcontract, all inclusive price	3,072.00 cy		-	-	76,800	-	-	25.00 /cy	76,800	36.40 /cy	111,817

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.78	**Cast-In-Place Concrete, Slabs on Grade, 78" thick**											
					Base slab edge forms, > 48"	3,531.00 sf	883	95,638	5,120	-	-	-	28.54 /sf	100,758	41.65 /sf	147,070
					Starter wall form	1,284.00 sf	193	20,866	1,284	-	-	-	17.25 /sf	22,150	25.19 /sf	32,343
					Keyway form	642.00 lf	96	10,433	321	-	-	-	16.75 /lf	10,754	24.43 /lf	15,681
					Expansion joint material, closed cell neoprene, 1"	3,531.00 sf	106	11,477	21,186	-	-	-	9.25 /sf	32,663	13.90 /sf	49,091
					Waterstop, PVC, center bulb, 9" wide	642.00 lf	51	5,564	1,926	-	-	-	11.67 /lf	7,490	17.20 /lf	11,045
					Concrete, ready mix, 4500 psi	3,072.00 CY		-	675,840	-	-	-	220.00 /CY	675,840	336.26 /CY	1,032,991
					Add for concrete waste, 4500 psi	92.00 cy		-	20,240	-	-	-	220.00 /cy	20,240	336.26 /cy	30,936
					Finishing floors, monolithic, trowel finish (machine)	12,759.00 sf	255	23,309	255	-	-	-	1.85 /sf	23,564	2.69 /sf	34,326
					Construction Joint Prep.	3,531.00 sf	282	25,533	177	-	-	-	7.28 /sf	25,710	10.60 /sf	37,445
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	642.00 lf		-	-	1,926	-	-	3.00 /lf	1,926	4.37 /lf	2,804
					Contraction Joint Option, Slabs, Preformed Joint	642.00 lf		-	1,284	-	-	-	2.00 /lf	1,284	3.06 /lf	1,963
					Curing, membrane spray	12,759.00 sf	26	2,307	510	-	-	-	0.22 /sf	2,817	0.32 /sf	4,138
					Perimeter insulation, polystyrene, 2" thick, R8	3,531.00 sf	42		2,048	-	-	-	0.58 /sf	2,048	0.89 /sf	3,130
					Polyethelene vapor barrier, 10 mil thick	127.59 sq	28	3,024	1,352	-	-	-	34.30 /sq	4,377	50.71 /sq	6,470
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	230.50 ton	3,688	431,503	345,750	-	-	-	3,372.03 /ton	777,253	5,018.28 /ton	1,156,713
					Reinforcing in place, unloading & sorting, add to above - slabs	230.50 ton	129	15,387	-	-	5,345	-	89.94 /ton	20,732	130.95 /ton	30,185
					Reinforcing steel, crane cost for handling, average, add	230.50 ton	140	16,725	-	-	5,809	-	97.76 /ton	22,535	142.34 /ton	32,810
					03.10.05.78 Cast-In-Place Concrete, Slabs on Grade, 78" thick	**3,072.00 CY**	**6,482**	**712,554**	**1,104,139**	**78,726**	**11,154**		**620.63 /CY**	**1,906,573**	**929.67 /CY**	**2,855,934**
					MOA-03.20.004 6'-6" thick Inclined Mat Slab on Grade	**3,072.00 CY**	**6,482**	**712,554**	**1,104,139**	**78,726**	**11,154**		**620.63 /CY**	**1,906,573**	**929.67 /CY**	**2,855,934**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**8,530.00 CY**	**18,927**	**2,073,963**	**3,133,738**	**213,101**	**33,438**		**639.42 /CY**	**5,454,239**	**957.60 /CY**	**8,168,321**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			MOA-03.25.001		**2'-0" thick CIP Exterior Wall - 38'-0" high**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	760.00 cy		-	-	19,000	-	-	25.00 /cy	19,000	36.40 /cy	27,663
					Forms in place, structural walls, > 16' high, hand set	20,520.00 sf	3,488	377,937	27,702	-	-	-	19.77 /sf	405,639	28.88 /sf	592,600
					Add labor for setting embedded frames	6,336.00 lf	6,336	686,449	-	-	-	-	108.34 /lf	686,449	157.74 /lf	999,438
					Form Pipe Penetrations, 4" - 8"	1.00 ea	2	217	-	-	-	-	216.68 /ea	217	315.49 /ea	315
					Form Pipe Penetrations, 10" - 14"	1.00 ea	4	379	-	-	-	-	379.19 /ea	379	552.08 /ea	552
					Form Pipe Penetrations, 16" - 18"	1.00 ea	5	488	-	-	-	-	487.53 /ea	488	709.82 /ea	710
					Form Pipe Penetrations, 20" - 24"	1.00 ea	6	596	-	-	-	-	595.88 /ea	596	867.57 /ea	868
					Form Pipe Penetrations, 30" - 36"	1.00 ea	12	1,300	-	-	-	-	1,300.09 /ea	1,300	1,892.88 /ea	1,893
					Form Pipe Penetrations, 42" - 54"	1.00 ea	16	1,733	-	-	-	-	1,733.46 /ea	1,733	2,523.85 /ea	2,524
					Form Pipe Penetrations, 60" and greater	5.00 ea	120	13,001	-	-	-	-	2,600.18 /ea	13,001	3,785.75 /ea	18,929
					Expansion joint material, closed cell neoprene, 1"	1,520.00 sf	46	4,940	9,120	-	-	-	9.25 /sf	14,060	13.90 /sf	21,132
					Waterstop, hydro-flex	270.00 lf	1	146	1,080	-	-	-	4.54 /lf	1,226	6.90 /lf	1,864
					Concrete, ready mix, 4500 psi	760.00 CY		-	167,200	-	-	-	220.00 /CY	167,200	336.26 /CY	255,558
					Add for concrete waste, 4500 psi	38.00 cy		-	8,360	-	-	-	220.00 /cy	8,360	336.26 /cy	12,778
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	760.00 cy	839	75,830	-	-	-	-	99.78 /cy	75,830	145.27 /cy	110,405
					Patch & plug tieholes	20,520.00 sf	308	27,822	410	-	-	-	1.38 /sf	28,232	2.00 /sf	41,134
					Sack rub	20,520.00 sf	821	74,191	616	-	-	-	3.65 /sf	74,807	5.31 /sf	108,960
					Constraction Joint Prep.	1,520.00 sf	122	10,991	76	-	-	-	7.28 /sf	11,067	10.60 /sf	16,119
					Curing, membrane spray	20,520.00 sf	41	3,710	821	-	-	-	0.22 /sf	4,530	0.32 /sf	6,656
					Below grade dampproofing, Bituminous Asphalt	10,260.00 sf		-	10,260	-	-	-	1.00 /sf	10,260	1.53 /sf	15,682
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	66.50 ton	1,064	124,490	99,750	-	-	-	3,372.03 /ton	224,240	5,018.28 /ton	333,715
					Reinforcing in place, unloading & sorting, add to above - slabs	66.50 ton	37	4,439	-	-	1,542	-	89.94 /ton	5,981	130.95 /ton	8,708
					Reinforcing steel, crane cost for handling, average, add	66.50 ton	40	4,825	-	-	1,676	-	97.76 /ton	6,501	142.34 /ton	9,466
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**760.00 CY**	**13,307**	**1,413,484**	**325,395**	**19,000**	**3,218**		**2,317.23 /CY**	**1,761,097**	**3,404.83 /CY**	**2,587,669**
					MOA-03.25.001 2'-0" thick CIP Exterior Wall - 38'-0" high	**760.00 CY**	**13,307**	**1,413,484**	**325,395**	**19,000**	**3,218**		**2,317.23 /CY**	**1,761,097**	**3,404.83 /CY**	**2,587,669**
			MOA-03.25.002		**4'-8" thick CIP Exterior Wall - 41'-0" high**											
				03.10.00.54	**Concrete, Cast-in-Place, Grade Walls, 54" Thick**											
					Concrete pumping, subcontract, all inclusive price	3,390.00 cy		-	-	84,750	-	-	25.00 /cy	84,750	36.40 /cy	123,392
					Forms in place, structural walls, > 16' high, hand set	40,672.00 sf	6,914	749,096	54,907	-	-	-	19.77 /sf	804,003	28.88 /sf	1,174,573
					Add labor for setting embedded frames	6,336.00 lf	6,336	686,449	-	-	-	-	108.34 /lf	686,449	157.74 /lf	999,438
					Form Pipe Penetrations, 4" - 8"	1.00 ea	2	217	-	-	-	-	216.68 /ea	217	315.48 /ea	315
					Form Pipe Penetrations, 10" - 14"	1.00 ea	4	379	-	-	-	-	379.19 /ea	379	552.09 /ea	552
					Form Pipe Penetrations, 16" - 18"	1.00 ea	5	488	-	-	-	-	487.53 /ea	488	709.81 /ea	710
					Form Pipe Penetrations, 20" - 24"	1.00 ea	6	596	-	-	-	-	595.88 /ea	596	867.57 /ea	868
					Form Pipe Penetrations, 30" - 36"	1.00 ea	12	1,300	-	-	-	-	1,300.09 /ea	1,300	1,892.89 /ea	1,893
					Form Pipe Penetrations, 42" - 54"	1.00 ea	16	1,733	-	-	-	-	1,733.46 /ea	1,733	2,523.83 /ea	2,524
					Form Pipe Penetrations, 60" and greater	5.00 ea	120	13,001	-	-	-	-	2,600.18 /ea	13,001	3,785.75 /ea	18,929
					Expansion joint material, closed cell neoprene, 1"	9,225.00 sf	277	29,983	55,350	-	-	-	9.25 /sf	85,333	13.90 /sf	128,254
					Waterstop, PVC, center bulb, 9" wide	496.00 lf	40	4,299	1,488	-	-	-	11.67 /lf	5,787	17.20 /lf	8,533
					Concrete, ready mix, 4500 psi	3,390.00 CY		-	745,800	-	-	-	220.00 /CY	745,800	336.26 /CY	1,139,922
					Add for concrete waste, 4500 psi	102.00 cy		-	22,440	-	-	-	220.00 /cy	22,440	336.26 /cy	34,299
					Placing concrete, concrete pump, for structural wall >24" thick	3,390.00 cy	3,742	338,242	-	-	-	-	99.78 /cy	338,242	145.27 /cy	492,465
					Patch & plug tieholes	40,672.00 sf	610	55,145	813	-	-	-	1.38 /sf	55,958	2.00 /sf	81,531
					Sack rub	40,672.00 sf	1,627	147,052	1,220	-	-	-	3.65 /sf	148,272	5.31 /sf	215,966
					Construction Joint Prep.	9,225.00 sf	738	66,707	461	-	-	-	7.28 /sf	67,168	10.60 /sf	97,827
					Curing, membrane spray	40,672.00 sf	81	7,353	1,627	-	-	-	0.22 /sf	8,979	0.32 /sf	13,192
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	305.10 ton	4,882	571,157	457,650	-	-	-	3,372.03 /ton	1,028,807	5,018.28 /ton	1,531,076
					Reinforcing in place, unloading & sorting, add to above - slabs	305.10 ton	171	20,367	-	-	7,074	-	89.94 /ton	27,442	130.95 /ton	39,954
					Reinforcing steel, crane cost for handling, average, add	305.10 ton	186	22,138	-	-	7,690	-	97.76 /ton	29,828	142.34 /ton	43,428
					03.10.00.54 Concrete, Cast-in-Place, Grade Walls, 54" Thick	**3,390.00 CY**	**25,767**	**2,715,701**	**1,341,757**	**84,750**	**14,764**		**1,226.25 /CY**	**4,156,972**	**1,814.05 /CY**	**6,149,641**
					MOA-03.25.002 4'-8" thick CIP Exterior Wall - 41'-0" high	**3,390.00 CY**	**25,767**	**2,715,701**	**1,341,757**	**84,750**	**14,764**		**1,226.25 /CY**	**4,156,972**	**1,814.05 /CY**	**6,149,641**
			MOA-03.25.003		**1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.18	**Concrete, Cast-in-Place, Grade Walls, 18" Wide**											
					Concrete pumping, subcontract, all inclusive price	670.00 cy		-	-	16,750	-	-	25.00 /cy	16,750	36.40 /cy	24,387
					Forms in place, structural walls, > 16' high, hand set	24,108.00 sf	4,098	444,020	32,546	-	-	-	19.77 /sf	476,566	28.88 /sf	696,218
					Concrete, ready mix, 4500 psi	670.00 CY		-	147,400	-	-	-	220.00 /CY	147,400	336.26 /CY	225,294
					Add for concrete waste, 4500 psi	21.00 cy		-	4,620	-	-	-	220.00 /cy	4,620	336.26 /cy	7,061
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	670.00 cy	740	66,850	-	-	-	-	99.78 /cy	66,850	145.27 /cy	97,331

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.00.18	**Concrete, Cast-in-Place, Grade Walls, 18" Wide**											
					Patch & plug tieholes	24,108.00 sf	362	32,686	482	-	-	-	1.38 /sf	33,169	2.00 /sf	48,327
					Stone rub	24,108.00 sf	1,205	108,955	723	-	-	-	4.55 /sf	109,678	6.63 /sf	159,739
					Curing, membrane spray	24,108.00 sf	48	4,358	964	-	-	-	0.22 /sf	5,323	0.32 /sf	7,819
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	58.70 ton	939	109,888	88,050	-	-	-	3,372.03 /ton	197,938	5,018.28 /ton	294,573
					Reinforcing in place, unloading & sorting, add to above - slabs	58.70 ton	33	3,919	-	-	1,361	-	89.94 /ton	5,280	130.95 /ton	7,687
					Reinforcing steel, crane cost for handling, average, add	58.70 ton	36	4,259	-	-	1,479	-	97.76 /ton	5,739	142.34 /ton	8,355
					03.10.00.18 Concrete, Cast-in-Place, Grade Walls, 18" Wide	**670.00 CY**	**7,461**	**774,936**	**274,786**	**16,750**	**2,841**		**1,595.99 /CY**	**1,069,312**	**2,353.42 /CY**	**1,576,792**
					MOA-03.25.003 1'-6" thick CIP Interior Wall - 41'-0" high - Intake Bay	**670.00 CY**	**7,461**	**774,936**	**274,786**	**16,750**	**2,841**		**1,595.99 /CY**	**1,069,312**	**2,353.42 /CY**	**1,576,792**
			MOA-03.25.004		**2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	1,354.52 cy		-	-	33,863	-	-	25.00 /cy	33,863	36.40 /cy	49,303
					Forms in place, structural walls, > 16' high, hand set	36,572.00 sf	6,217	673,582	49,372	-	-	-	19.77 /sf	722,954	28.88 /sf	1,056,168
					Concrete, ready mix, 4500 psi	1,355.00 CY		-	298,100	-	-	-	220.00 /CY	298,100	336.26 /CY	455,632
					Add for concrete waste, 4500 psi	41.00 cy		-	9,020	-	-	-	220.00 /cy	9,020	336.26 /cy	13,787
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	1,354.52 cy	1,495	135,149	-	-	-	-	99.78 /cy	135,149	145.27 /cy	196,771
					Patch & plug tieholes	36,572.00 sf	549	49,586	731	-	-	-	1.38 /sf	50,317	2.00 /sf	73,312
					Stone rub	36,572.00 sf	1,829	165,285	1,097	-	-	-	4.55 /sf	166,382	6.63 /sf	242,325
					Curing, membrane spray	36,572.00 sf	73	6,611	1,463	-	-	-	0.22 /sf	8,074	0.32 /sf	11,862
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	118.60 ton	1,898	222,023	177,900	-	-	-	3,372.03 /ton	399,923	5,018.28 /ton	595,168
					Reinforcing in place, unloading & sorting, add to above - slabs	118.60 ton	66	7,917	-	-	2,750	-	89.94 /ton	10,667	130.95 /ton	15,531
					Reinforcing steel, crane cost for handling, average, add	118.60 ton	72	8,606	-	-	2,989	-	97.76 /ton	11,595	142.34 /ton	16,882
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**1,355.00 CY**	**12,199**	**1,268,759**	**537,684**	**33,863**	**5,739**		**1,362.39 /CY**	**1,846,045**	**2,012.35 /CY**	**2,726,740**
					MOA-03.25.004 2'-0" thick CIP Interior Wall - 41'-0" high - Intake Bay	**1,355.00 CY**	**12,199**	**1,268,759**	**537,684**	**33,863**	**5,739**		**1,362.39 /CY**	**1,846,045**	**2,012.35 /CY**	**2,726,740**
			MOA-03.25.005		**6" thick CIP Interior Wall - 41'-0" high - Intake Bay**											
				03.10.00.06	**Concrete, Cast-in-Place, Grade Walls, 6" Wide**											
					Concrete pumping, subcontract, all inclusive price	136.00 cy		-	-	3,400	-	-	25.00 /cy	3,400	36.40 /cy	4,950
					Forms in place, structural walls, > 16' high, hand set	14,596.00 sf	2,481	268,829	19,705	-	-	-	19.77 /sf	288,533	28.88 /sf	421,520
					Concrete, ready mix, 4500 psi	136.00 CY		-	29,920	-	-	-	220.00 /CY	29,920	336.26 /CY	45,731
					Add for concrete waste, 4500 psi	5.00 cy		-	1,100	-	-	-	220.00 /cy	1,100	336.26 /cy	1,681
					Placing concrete, concrete pump, for structural wall to 12" thick	136.00 cy	164	14,799	-	-	-	-	108.81 /cy	14,799	158.43 /cy	21,546
					Patch & plug tieholes	14,596.00 sf	219	19,790	292	-	-	-	1.38 /sf	20,082	2.00 /sf	29,259
					Stone rub	14,596.00 sf	730	65,966	438	-	-	-	4.55 /sf	66,404	6.63 /sf	96,713
					Curing, membrane spray	14,596.00 sf	29	2,639	584	-	-	-	0.22 /sf	3,222	0.32 /sf	4,734
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	12.00 ton	192	22,464	18,000	-	-	-	3,372.03 /ton	40,464	5,018.28 /ton	60,219
					Reinforcing in place, unloading & sorting, add to above - slabs	12.00 ton	7	801	-	-	278	-	89.94 /ton	1,079	130.95 /ton	1,571
					Reinforcing steel, crane cost for handling, average, add	12.00 ton	7	871	-	-	302	-	97.76 /ton	1,173	142.34 /ton	1,708
					03.10.00.06 Concrete, Cast-in-Place, Grade Walls, 6" Wide	**136.00 CY**	**3,829**	**396,158**	**70,038**	**3,400**	**581**		**3,457.18 /CY**	**470,177**	**5,070.84 /CY**	**689,634**
					MOA-03.25.005 6" thick CIP Interior Wall - 41'-0" high - Intake Bay	**136.00 CY**	**3,829**	**396,158**	**70,038**	**3,400**	**581**		**3,457.18 /CY**	**470,177**	**5,070.84 /CY**	**689,634**
			MOA-03.25.006		**3'-0" thick CIP Interior Wall - 41'-0" high**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	5,622.00 cy		-	-	140,550	-	-	25.00 /cy	140,550	36.40 /cy	204,634
					Forms in place, structural walls, > 16' high, hand set	101,188.00 sf	17,202	1,863,678	136,604	-	-	-	19.77 /sf	2,000,281	28.88 /sf	2,922,223
					Concrete, ready mix, 4500 psi	5,622.00 CY		-	1,236,840	-	-	-	220.00 /CY	1,236,840	336.26 /CY	1,890,454
					Add for concrete waste, 4500 psi	170.00 cy		-	37,400	-	-	-	220.00 /cy	37,400	336.26 /cy	57,164
					Placing concrete, concrete pump, for structural wall >24" thick	5,622.00 cy	6,206	560,943	-	-	-	-	99.78 /cy	560,943	145.27 /cy	816,707
					Patch & plug tieholes	101,188.00 sf	1,518	137,194	2,024	-	-	-	1.38 /sf	139,218	2.00 /sf	202,842
					Stone rub	101,188.00 sf	5,059	457,314	3,036	-	-	-	4.55 /sf	460,350	6.63 /sf	670,469
					Curing, membrane spray	101,188.00 sf	202	18,293	4,048	-	-	-	0.22 /sf	22,340	0.32 /sf	32,820
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	492.00 ton	7,872	921,040	738,000	-	-	-	3,372.03 /ton	1,659,040	5,018.28 /ton	2,468,992
					Reinforcing in place, unloading & sorting, add to above - slabs	492.00 ton	276	32,844	-	-	11,408	-	89.94 /ton	44,252	130.95 /ton	64,429
					Reinforcing steel, crane cost for handling, average, add	492.00 ton	299	35,700	-	-	12,400	-	97.76 /ton	48,100	142.34 /ton	70,032
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**5,622.00 CY**	**38,634**	**4,027,005**	**2,157,951**	**140,550**	**23,808**		**1,129.37 /CY**	**6,349,314**	**1,672.14 /CY**	**9,400,765**
					MOA-03.25.006 3'-0" thick CIP Interior Wall - 41'-0" high	**5,622.00 CY**	**38,634**	**4,027,005**	**2,157,951**	**140,550**	**23,808**		**1,129.37 /CY**	**6,349,314**	**1,672.14 /CY**	**9,400,765**
					03.20 Cast-In-Place Concrete, Straight Walls	**11,933.00 CY**	**101,197**	**10,596,043**	**4,707,610**	**298,313**	**50,951**		**1,311.73 /CY**	**15,652,917**	**1,938.43 /CY**	**23,131,241**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.001		**4'-0" thick CIP Concrete Roof Deck**											
				03.10.11.48	**Cast-In-Place Concrete, Elevated Deck, 48"**											
					Concrete pumping, subcontract, all inclusive price	4,327.00 cy		-	-	108,175	-	-	25.00 /cy	108,175	36.40 /cy	157,498
					Forms in place, elevated slab, soffit	29,202.00 sf	5,840	632,755	36,503	-	-	-	22.92 /sf	669,257	33.46 /sf	977,055
					Forms in place, elevated slab, edge form	3,024.00 sf	756	81,906	3,780	-	-	-	28.34 /sf	85,686	41.35 /sf	125,029
					Slab shoring	1,197,282.00 cf	8,381	908,003	59,864	-	-	-	0.81 /cf	967,867	1.18 /cf	1,413,511
					Concrete, ready mix, 4500 psi	4,327.00 CY		-	951,940	-	-	-	220.00 /CY	951,940	336.26 /CY	1,454,997
					Add for concrete waste, 4500 psi	130.00 cy		-	28,600	-	-	-	220.00 /cy	28,600	336.26 /cy	43,714
					Placing concrete, concrete pump, for elevated slab over 12" thick	4,327.00 cy	4,244	383,632	-	-	-	-	88.66 /cy	383,632	129.08 /cy	558,550
					Curing, membrane spray	29,202.00 sf	58	5,279	1,168	-	-	-	0.22 /sf	6,447	0.32 /sf	9,471
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	379.00 ton	6,064	709,500	568,500	-	-	-	3,372.03 /ton	1,278,000	5,018.28 /ton	1,901,927
					Reinforcing in place, unloading & sorting, add to above - slabs	379.00 ton	212	25,300	-	-	8,788	-	89.94 /ton	34,089	130.95 /ton	49,631
					Reinforcing steel, crane cost for handling, average, add	379.00 ton	231	27,501	-	-	9,552	-	97.76 /ton	37,053	142.34 /ton	53,947
					Concrt fnshng,floors,basic fnshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	29,202.00 sf	379	34,560	-	-	-	-	1.18 /sf	34,560	1.72 /sf	50,318
					03.10.11.48 Cast-In-Place Concrete, Elevated Deck, 48"	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,570.52 /CY**	**6,795,648**
					MOA-03.30.001 4'-0" thick CIP Concrete Roof Deck	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,570.52 /CY**	**6,795,648**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**4,327.00 CY**	**26,166**	**2,808,436**	**1,650,355**	**108,175**	**18,340**		**1,059.70 /CY**	**4,585,306**	**1,570.52 /CY**	**6,795,648**
		03.27			**Cast-In-Place Concrete, Equipment Pads**											
			03.08.011		**Concrete Equipment Pads**											
				03.10.13.18	**Cast-In-Place Concrete, Equipment Pads, 18" thick**											
					Concrete surface treatment, bonding agent, epoxy resin, 80 S.F. per gallon, 4 gallon case, includes material only	3.50 gal		-	329	-	-	-	94.00 /gal	329	143.67 /gal	503

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.13.18	**Cast-In-Place Concrete, Equipment Pads, 18" thick**											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	144.00 sfca	13	1,375	341	-	-	-	11.92 /sfca	1,717	17.53 /sfca	2,524
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.75 ton	28	3,276	2,625	-	-	-	3,372.03 /ton	5,901	5,018.28 /ton	8,782
					Reinforcing in place, unloading & sorting, add to above - slabs	1.75 ton	1	117	-	-	41	-	89.94 /ton	157	130.96 /ton	229
					Reinforcing in place, crane cost for handling, add to above, slabs	1.75 ton	1	127	-	-	44	-	97.77 /ton	171	142.34 /ton	249
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	17.00 cy		-	3,740	-	-	-	220.00 /cy	3,740	336.26 /cy	5,716
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	16.00 CY	6	530	-	-	78	-	38.00 /CY	608	55.32 /CY	885
					Concrete finishng,floors,basic finishng for unspecfd flatwork,bull float,manual float&manual steel trowel,excludes placing,striking off&consolidating	280.00 sf	5	485	-	-	-	-	1.73 /sf	485	2.52 /sf	706
					Propfile Concrete	280.00 sf	8	827	171	-	77	-	3.84 /sf	1,075	5.63 /sf	1,578
					Curing, sprayed membrane curing compound	2.80 csf	0	43	45	-	-	-	31.33 /csf	88	46.77 /csf	131
					03.10.13.18 Cast-In-Place Concrete, Equipment Pads, 18" thick	**16.00 CY**	**63**	**6,780**	**7,251**		**240**		**891.91 /CY**	**14,271**	**1,331.43 /CY**	**21,303**
					03.08.011 Concrete Equipment Pads	**16.00 CY**	**63**	**6,780**	**7,251**		**240**		**891.91 /CY**	**14,271**	**1,331.43 /CY**	**21,303**
					03.27 Cast-In-Place Concrete, Equipment Pads	**16.00 CY**	**63**	**6,780**	**7,251**		**240**		**891.91 /CY**	**14,271**	**1,331.43 /CY**	**21,303**
					03.0 Concrete Work	**24,806.33 CY**	**146,354**	**15,485,348**	**9,499,071**	**619,614**	**102,969**		**1,036.31 /CY**	**25,707,002**	**1,536.58 /CY**	**38,116,915**
	04.0				**Masonry - Architectural**											
		04.21			**Concrete Unit Masonry - Exterior**											
			MOA-04.21.001		**8" thick Exterior CMU Wall**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Grout, door frames, 3' x 7' opening, 2.5 C.F. per opening	12.00 opng	6	681	177	-	32	-	74.19 /opng	890	105.38 /opng	1,265
					Grout, door frames, 6' x 7' opening, 3.5 C.F. per opening	2.00 opng	1	151	41	-	7	-	99.76 /opng	200	141.74 /opng	283
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	4,541.39 cf	415	44,179	26,794	-	2,097	-	16.09 /cf	73,071	23.05 /cf	104,677
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	3,368.86 lb	60	6,178	1,348	-	-	-	2.23 /lb	7,526	3.17 /lb	10,678
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	2,477.10 lb	57	5,840	1,759	-	-	-	3.07 /lb	7,599	4.36 /lb	10,811
					Allow - shoring and bracing at CMU walls (percentage wall area)	2,972.53 sfwa	34	3,702	535	-	-	-	1.43 /sfwa	4,237	2.02 /sfwa	5,995
					Control joint, PVC, cross-shaped for CMU units	1,200.00 lf	34	3,536	2,940	-	-	-	5.40 /lf	6,476	7.77 /lf	9,319
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	9,908.42 SF	2,558	260,095	111,281	-	-	-	37.48 /SF	371,376	53.51 /SF	530,206
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	1,073.00 lf	229	23,189	7,726	-	-	-	28.81 /lf	30,915	41.03 /lf	44,025
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	200.00 lf	53	6,680	630	-	333	-	38.22 /lf	7,644	53.96 /lf	10,792
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	32.00 lf	14	1,749	251	-	87	-	65.23 /lf	2,088	92.29 /lf	2,953
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.27 mbf	8	913	314	-	-	-	4,593.00 /mbf	1,226	6,542.73 /mbf	1,747
					Silicone water repellants, sprayed on CMU, 2 coat	19,816.83 sf	53	5,451	24,573	-	-	-	1.52 /sf	30,024	2.22 /sf	43,994
					Reglet, zinc and copper alloy, 20 ounce	3,000.00 lf	107	11,623	8,610	-	-	-	6.74 /lf	20,233	9.69 /lf	29,070
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	3,000.00 lf	160	19,497	15,750	-	-	-	11.75 /lf	35,247	16.90 /lf	50,698
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	1,200.00 lf	35	3,601	828	-	-	-	3.69 /lf	4,429	5.24 /lf	6,286
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**9,908.42 SF**	**3,825**	**397,065**	**203,556**		**2,558**		**60.88 /SF**	**603,178**	**87.08 /SF**	**862,799**
					MOA-04.21.001 8" thick Exterior CMU Wall	**9,908.42 SF**	**3,825**	**397,065**	**203,556**		**2,558**		**60.88 /SF**	**603,178**	**87.08 /SF**	**862,799**
			MOA-04.21.002		**8" thick Exterior CMU Wall - uninsulated**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	664.00 cf	61	6,459	3,918	-	307	-	16.09 /cf	10,684	23.05 /cf	15,305
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	903.04 lb	16	1,656	361	-	-	-	2.23 /lb	2,017	3.17 /lb	2,862
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	664.00 lb	15	1,565	471	-	-	-	3.07 /lb	2,037	4.36 /lb	2,898
					Masonry reinforcing bars, truss type steel joint reinforcing, mill standard galvanized, 12" wide	19.92 clf	8	822	488	-	-	-	65.76 /clf	1,310	94.23 /clf	1,877
					Allow - shoring and bracing at CMU walls (percentage wall area)	796.80 sfwa	9	992	143	-	-	-	1.43 /sfwa	1,136	2.02 /sfwa	1,607
					Control joint, PVC, cross-shaped for CMU units	450.00 lf	13	1,326	1,103	-	-	-	5.40 /lf	2,429	7.77 /lf	3,494
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	2,656.00 SF	354	36,005	15,405	-	-	-	19.36 /SF	51,410	27.63 /SF	73,397
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	664.00 lf	142	14,350	4,781	-	-	-	28.81 /lf	19,131	41.03 /lf	27,244
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	150.00 lf	40	5,010	473	-	250	-	38.22 /lf	5,733	53.96 /lf	8,094
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.20 mbf	6	684	235	-	-	-	4,593.00 /mbf	919	6,542.65 /mbf	1,309
					Silicone water repellants, sprayed on CMU, 2 coat	5,312.00 sf	14	1,461	6,587	-	-	-	1.52 /sf	8,048	2.22 /sf	11,793
					Reglet, zinc and copper alloy, 20 ounce	150.00 lf	5	581	431	-	-	-	6.74 /lf	1,012	9.69 /lf	1,454
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	150.00 lf	8	975	788	-	-	-	11.75 /lf	1,762	16.90 /lf	2,535
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	450.00 lf	13	1,350	311	-	-	-	3.69 /lf	1,661	5.24 /lf	2,357
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**2,656.00 SF**	**705**	**73,238**	**35,493**		**557**		**41.15 /SF**	**109,287**	**58.82 /SF**	**156,226**
					MOA-04.21.002 8" thick Exterior CMU Wall - uninsulated	**2,656.00 SF**	**705**	**73,238**	**35,493**		**557**		**41.15 /SF**	**109,287**	**58.82 /SF**	**156,226**
					04.21 Concrete Unit Masonry - Exterior	**12,564.42 SF**	**4,530**	**470,303**	**239,048**		**3,115**		**56.71 /SF**	**712,466**	**81.10 /SF**	**1,019,025**
		04.23			**Concrete Unit Masonry - Interior**											
			MOA-04.23.001		**8" thick Interior CMU Wall**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Structural concrete,ready mix,normal weight,1:2 mix topping,includes sand,portland cement and water,delivered,excludes all additives and treatments	2.00 cy		-	440	-	-	-	220.00 /cy	440	325.26 /cy	651
					Grouting, interior door frame, average 3.0 cf/opening (single & pair)	3.00 opng	2	227	62	-	11	-	99.76 /opng	299	141.74 /opng	425
					Grout, C476. interior CMU cells/cores, bond beams and lintels	378.97 cf	35	3,687	2,236	-	175	-	16.09 /cf	6,098	23.05 /cf	8,735
					Reinforcing, steel bars A615, average #4 bar, interior CMU	894.38 lb	16	1,640	635	-	-	-	2.54 /lb	2,275	3.63 /lb	3,245
					Joint reinforcing, regular truss, to 12" wide, mill galv, interior CMU	11.90 clf	5	491	292	-	-	-	65.76 /clf	783	94.23 /clf	1,121
					Control joint, average cost, interior or core CMU walls	120.00 lf	2	248	600	-	-	-	7.06 /lf	848	10.29 /lf	1,235
					Glazed CMU, unreinforced, hollow, single face, 8x16x8 - Interior	1,515.89 SF	196	19,887	30,318	-	-	-	33.12 /SF	50,204	48.01 /SF	72,783
					Angle framing, structural steel, 2-1/2"x2-1/2"x1/4", field fabricated, incl cutting & welding	120.00 lf	40	5,010	486	-	250	-	47.89 /lf	5,746	67.62 /lf	8,114
					Lightweight framing, channel, field fab, avg. 8 lbs/lf	60.00 lb	3	361	59	-	18	-	7.30 /lb	438	10.34 /lb	620
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 6"	0.12 mbf	5	523	189	-	-	-	5,932.90 /mbf	712	8,455.50 /mbf	1,015
					Caulking and sealants, butyl based, bulk, in place, 154 LF per gallon, 1/4" x 1/2"	120.00 lf	3	344	42	-	-	-	3.22 /lf	386	4.55 /lf	545
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**1,515.89 SF**	**306**	**32,416**	**35,358**		**454**		**45.01 /SF**	**68,228**	**64.97 /SF**	**98,490**
					MOA-04.23.001 8" thick Interior CMU Wall	**1,515.89 SF**	**306**	**32,416**	**35,358**		**454**		**45.01 /SF**	**68,228**	**64.97 /SF**	**98,490**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					04.23 Concrete Unit Masonry - Interior	**1,515.89 SF**	**306**	**32,416**	**35,358**		**454**		**45.01 /SF**	**68,228**	**64.97 /SF**	**98,490**
					04.0 Masonry - Architectural	**14,080.31 SF**	**4,836**	**502,719**	**274,407**		**3,568**		**55.45 /SF**	**780,694**	**79.37 /SF**	**1,117,515**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.004		**Metal Grating**											
				05.50.05.00	**Metals, Gratings**											
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	1,138.00 SF	236	29,378	60,314	-	20,273	-	96.63 /SF	109,965	139.70 /SF	158,979
					05.50.05.00 Metals, Gratings	**1,138.00 SF**	**236**	**29,378**	**60,314**		**20,273**		**96.63 /SF**	**109,965**	**139.70 /SF**	**158,979**
					05.00.004 Metal Grating	**1,138.00 SF**	**236**	**29,378**	**60,314**		**20,273**		**96.63 /SF**	**109,965**	**139.70 /SF**	**158,979**
			05.00.010		**Trash Racks**											
				05.00.99.00	**Metals, Other**											
					WF (or HP/S) trash rack beams, A36, avg cost/ton, moment/non-moment	22.20 ton	480	59,781	48,840	-	12,174	-	5,441.18 /ton	120,794	7,809.56 /ton	173,372
					1/2" x 4" Epoxy Coated Trash Rack Bars	16,800.00 lf	1,344	167,925	252,000	-	6,303	-	25.37 /lf	426,228	36.76 /lf	617,527
					Touchup Epoxy Coating	144.00 ea	2,304	285,737	288,000	-	74,880	-	4,504.29 /ea	648,617	6,477.83 /ea	932,807
					Miscellaneous Items and Consumables Allowance	1.00 ls		20,000	30,000	-	10,000	-	60,000.00 /ls	60,000	86,532.28 /ls	86,532
					05.00.99.00 Metals, Other	***1.00* LS**	**4,128**	**533,443**	**618,840**		**103,356**		**1,255,639.50 /LS**	**1,255,640**	**1,810,238.24 /LS**	**1,810,238**
					05.00.010 Trash Racks	***1.00* LS**	**4,128**	**533,443**	**618,840**		**103,356**		**1,255,639.50 /LS**	**1,255,640**	**1,810,238.24 /LS**	**1,810,238**
			MOA-05.20.001		**Steel Platform**											
				05.10.01.00	**Metals, Structural Steel**											
					Lightweight framing, for steel platform channel, field fab, C8 x 11.5	36.00 TON	927	116,299	162,000	-	67,067	-	9,593.50 /TON	345,366	13,814.27 /TON	497,314
					Avg cost, grout base plates, non-shrink, non-metallic, to 2" deep	192.00 sf	61	5,612	3,514	-	-	-	47.53 /sf	9,126	68.15 /sf	13,085
					Miscellaneous Items and Consumables Allowance	1.00 ls		12,000	18,000	-	5,000	-	35,000.00 /ls	35,000	50,513.41 /ls	50,513
					05.10.01.00 Metals, Structural Steel	**36.00 TON**	**989**	**133,911**	**183,514**		**72,067**		**10,819.21 /TON**	**389,492**	**15,580.90 /TON**	**560,912**
				05.50.03.20	**Metal Ladders, Steel w/o Cage**											
					Ladder, steel, bolted to concrete, without cage	144.00 LF	58	7,054	4,320	-	-	-	78.98 /LF	11,374	113.22 /LF	16,304
					05.50.03.20 Metal Ladders, Steel w/o Cage	**144.00 LF**	**58**	**7,054**	**4,320**				**78.98 /LF**	**11,374**	**113.22 /LF**	**16,304**
				05.50.04.20	**Metals, Handrailing**											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	724.00 LF	145	18,092	45,250	-	679	-	88.43 /LF	64,021	128.86 /LF	93,291
					24" Self Closing Gate	6.00 ea	48	5,997	4,500	-	225	-	1,787.07 /ea	10,722	2,566.92 /ea	15,402
					05.50.04.20 Metals, Handrailing	**724.00 LF**	**193**	**24,089**	**49,750**		**904**		**103.24 /LF**	**74,743**	**150.13 /LF**	**108,693**
				05.50.05.00	**Metals, Gratings**											
					Floor grating, aluminum, 1 1/2" x 1/8" x 2"	2,730.00 SF	191	23,402	54,600	-	-	-	28.57 /SF	78,002	41.62 /SF	113,626
					Grating frame, aluminum, 1 1/2" to 2" deep	724.00 lf	101	12,412	8,688	-	-	-	29.14 /lf	21,100	41.85 /lf	30,296
					05.50.05.00 Metals, Gratings	**2,730.00 SF**	**292**	**35,814**	**63,288**				**36.30 /SF**	**99,102**	**52.72 /SF**	**143,922**
				05.50.05.20	**Metals, Floor Hatches**											
					Doors, specialty, access, floor, industrial, aluminum, 150 psf L.L., double leaf, 6' x 8', 442 lb	10.00 EA	80	9,921	85,000	-	2,680	-	9,760.14 /EA	97,601	14,338.57 /EA	143,386
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	6,000	-	2,000	-	12,000.00 /ls	12,000	17,306.46 /ls	17,306
					05.50.05.20 Metals, Floor Hatches	**10.00 EA**	**80**	**13,921**	**91,000**		**4,680**		**10,960.14 /EA**	**109,601**	**16,069.22 /EA**	**160,692**
				05.50.99.00	**Ladder Fall Protection**											
					Ladder fall protection device	144.00 LF	36	4,409	3,600	-	-	-	55.61 /LF	8,009	80.00 /LF	11,521
					05.50.99.00 Ladder Fall Protection	**144.00 LF**	**36**	**4,409**	**3,600**				**55.61 /LF**	**8,009**	**80.00 /LF**	**11,521**
					MOA-05.20.001 Steel Platform	***1.00* LS**	**1,647**	**219,198**	**395,472**		**77,651**		**692,320.85 /LS**	**692,321**	**1,002,043.51 /LS**	**1,002,044**
					05.00 Metals	***1.00* LS**	**6,012**	**782,020**	**1,074,626**		**201,280**		**2,057,925.30 /LS**	**2,057,925**	**2,971,260.27 /LS**	**2,971,260**
					05.0 Metals	***1.00* LS**	**6,012**	**782,020**	**1,074,626**		**201,280**		**2,057,925.30 /LS**	**2,057,925**	**2,971,260.27 /LS**	**2,971,260**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	**Thermal & Moisture Protection, Membrane Roofing**											
					Framing, miscellaneous wood blocking/backing for sheet metal	1.40 mbf	45	4,881	2,380	-	-	-	5,186.34 /mbf	7,261	7,415.01 /mbf	10,381
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	9,540.00 bf	120	12,378	19,080	-	-	-	3.30 /bf	31,458	4.78 /bf	45,612
					Cants, mineral or fiber, trapezoidal, 1" x 4" x 48"	270.00 lf	7	686	103	-	-	-	2.92 /lf	788	4.13 /lf	1,116
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	116.00 SQ	186	19,256	16,356	-	897	-	314.73 /SQ	36,508	452.72 /SQ	52,515
					Coping, galvanized steel, 24 gauge, 16" wall	684.00 lf	93	10,135	2,777	-	-	-	18.88 /lf	12,912	26.83 /lf	18,355
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	103.00 lf	6	693	480	-	-	-	11.38 /lf	1,173	16.34 /lf	1,683
					Reglet, galvanized steel, in concrete parapet, 24 gauge	1,300.00 lf	46	5,036	3,653	-	-	-	6.68 /lf	8,689	9.60 /lf	12,481
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	1,300.00 lf	69	8,449	2,535	-	-	-	8.45 /lf	10,984	12.02 /lf	15,627
					Roof Hatches, with curb, 1" fiberglass insulation, galvanized steel curb & cover, 2'-6" x 8'	1.00 ea	5	516	2,500	-	-	-	3,016.02 /ea	3,016	4,421.65 /ea	4,422
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	**116.00 SQ**	**576**	**62,029**	**49,864**		**897**		**972.32 /SQ**	**112,789**	**1,398.20 /SQ**	**162,191**
					07.00.000 TPO Membrane Roofing	**116.00 SQ**	**576**	**62,029**	**49,864**		**897**		**972.32 /SQ**	**112,789**	**1,398.20 /SQ**	**162,191**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	9.44 ton	58	7,235	99,120	-	2,101	-	11,488.99 /ton	108,456	16,914.24 /ton	159,670
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	94.40 ton	687	85,504	991,200	-	24,830	-	11,668.80 /ton	1,101,535	17,167.06 /ton	1,620,570
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	9,540.00 SF	71	8,870	31,387	-	333	-	4.25 /SF	40,590	6.22 /SF	59,343
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	6,500.00 sf	43	3,939	650	-	-	-	0.71 /sf	4,589	1.00 /sf	6,499
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	6,500.00 sf	87	7,877	2,535	-	-	-	1.60 /sf	10,412	2.28 /sf	14,823
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**9,540.00 SF**	**946**	**113,426**	**1,124,892**		**27,264**		**132.66 /SF**	**1,265,582**	**195.06 /SF**	**1,860,905**
					MOA-07.00.001 Metal Roof	**9,540.00 SF**	**946**	**113,426**	**1,124,892**		**27,264**		**132.66 /SF**	**1,265,582**	**195.06 /SF**	**1,860,905**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**1,522**	**175,454**	**1,174,755**		**28,161**		**1,378,370.68 /LS**	**1,378,371**	**2,023,096.58 /LS**	**2,023,097**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**1,522**	**175,454**	**1,174,755**		**28,161**		**1,378,370.68 /LS**	**1,378,371**	**2,023,096.58 /LS**	**2,023,097**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	14.00 opng	37	4,068	518	-	-	-	327.56 /opng	4,586	463.22 /opng	6,485
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	14.00 EA	112	13,890	16,800	-	-	-	2,192.14 /EA	30,690	3,169.06 /EA	44,367
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	14.00 ea	12	1,356	13,580	-	-	-	1,066.84 /ea	14,936	1,570.26 /ea	21,984

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					08.10.01.10 Doors and Frames, Hollow Metal	**14.00 EA**	**162**	**19,314**	**30,898**				**3,586.55 /EA**	**50,212**	**5,202.54 /EA**	**72,836**
				08.30.01.20	**Specialty Doors and Frames, Coiling Doors**											
					Doors, rolling service, steel, manual, 20 gauge, 12' x 10' high, incl. hardware	4.00 EA	53	6,614	11,000	-	-	-	4,403.57 /EA	17,614	6,390.60 /EA	25,562
					Doors, rolling service, steel, manual, for 18 gauge doors, add	576.00 sf		-	1,025	-	-	-	1.78 /sf	1,025	2.63 /sf	1,516
					Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jambs, add	96.00 lf		-	216	-	-	-	2.25 /lf	216	3.33 /lf	319
					Doors, rolling service, steel, manual, for weatherstripping, hood, extruded rubber, add	48.00 lf		-	1,416	-	-	-	29.50 /lf	1,416	43.61 /lf	2,094
					Doors, rolling service, steel, manual, motor operators for, to 14' x 14' opening	4.00 ea	13	1,587	4,400	-	-	-	1,496.86 /ea	5,987	2,184.26 /ea	8,737
					08.30.01.20 Specialty Doors and Frames, Coiling Doors	**4.00 EA**	**66**	**8,202**	**18,057**				**6,564.75 /EA**	**26,259**	**9,557.03 /EA**	**38,228**
					MOA-08.10.001 Exterior Doors	**18.00 EA**	**228**	**27,515**	**48,955**				**4,248.37 /EA**	**76,471**	**6,170.20 /EA**	**111,064**
					08.10 Doors and Frames - Exterior Doors	**18.00 EA**	**228**	**27,515**	**48,955**				**4,248.37 /EA**	**76,471**	**6,170.20 /EA**	**111,064**
		08.15			**Doors and Frames - Interior Doors**											
			MOA-08.15.001		**Interior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Doors, steel, interior, 7'-0" x 3'-0" wide	3.00 EA	11	1,187	3,323	-	-	-	1,503.44 /EA	4,510	2,194.08 /EA	6,582
					08.10.01.10 Doors and Frames, Hollow Metal	**3.00 EA**	**11**	**1,187**	**3,323**				**1,503.44 /EA**	**4,510**	**2,194.08 /EA**	**6,582**
					MOA-08.15.001 Interior Doors	**3.00 EA**	**11**	**1,187**	**3,323**				**1,503.44 /EA**	**4,510**	**2,194.08 /EA**	**6,582**
					08.15 Doors and Frames - Interior Doors	**3.00 EA**	**11**	**1,187**	**3,323**				**1,503.44 /EA**	**4,510**	**2,194.08 /EA**	**6,582**
					08.0 Openings	**21.00 EA**	**239**	**28,703**	**52,278**				**3,856.24 /EA**	**80,981**	**5,602.18 /EA**	**117,646**
	09.0				**Finishes**											
		09.20			**Plaster and Gypsum Board**											
			MOA-09.20.001		**3-5/8" thick Interior Metal Stud Wall - Type A**											
				09.00.99.00	**Finishes, Other**											
					Blanket insulation, for walls or ceilings, unfaced fiberglass, 3-1/2" thick, R13, 23" wide	436.51 SF	2	238	258	-	-	-	1.13 /SF	495	1.64 /SF	715
					2-1/2" Metal studs, galv, 20 ga., 24" oc, non load brng, >10' ht.	436.51 sf	7	792	87	-	-	-	2.02 /sf	880	2.85 /sf	1,243
					Pack void between top track and flutes and seal both sides	40.00 lf	2	218	23	-	-	-	6.03 /lf	241	8.52 /lf	341
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	873.02 sf	18	1,964	471	-	-	-	2.79 /sf	2,435	3.96 /sf	3,458
					09.00.99.00 Finishes, Other	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.19 /SF**	**5,757**
					MOA-09.20.001 3-5/8" thick Interior Metal Stud Wall - Type A	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.19 /SF**	**5,757**
					09.20 Plaster and Gypsum Board	**436.51 SF**	**29**	**3,212**	**840**				**9.28 /SF**	**4,051**	**13.19 /SF**	**5,757**
					09.0 Finishes	***1.00* LS**	**29**	**3,212**	**840**				**4,051.29 /LS**	**4,051**	**5,756.81 /LS**	**5,757**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.04.MVVSD		**Medium Voltage Variable Speed Drives**											
				26.00.99.00	**Electrical, Other**											
					Electrical Contractor startup assistance per hour	96.00 hr	960	100,144	9,600	-	2,400	-	1,168.17 /hr	112,144	1,824.87 /hr	175,187
					26.00.99.00 Electrical, Other	***1.00* LS**	**960**	**100,144**	**9,600**		**2,400**		**112,144.32 /LS**	**112,144**	**175,187.49 /LS**	**175,187**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					MV VSP 8000A 13.8kV, includes allowance for Vendor startup, CX, train, doc	12.00 EA	960	100,144	5,040,000	60,000	38,400	-	436,545.36 /EA	5,238,544	708,194.84 /EA	8,498,338
					26.25.03.00 Electrical Equipment, Switchgear - General	**12.00 EA**	**960**	**100,144**	**5,040,000**	**60,000**	**38,400**		**436,545.36 /EA**	**5,238,544**	**708,194.84 /EA**	**8,498,338**
					26.04.MVVSD Medium Voltage Variable Speed Drives	***1.00* LS**	**1,920**	**200,289**	**5,049,600**	**60,000**	**40,800**		**5,350,688.64 /LS**	**5,350,689**	**8,673,525.54 /LS**	**8,673,526**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.73 /lf	3,519
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.22 /lf	2,845
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.65 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.65 /ea	345
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.46 /ea	355
					26.00.99.00 Electrical, Other	***1.00* LS**	**40**	**4,212**	**738**				**4,949.45 /LS**	**4,949**	**7,754.62 /LS**	**7,755**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	4.50 clf	3	341	62	-	-	-	89.57 /clf	403	140.35 /clf	632
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.23 /clf	1,469
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.68 /clf	2,830
					26.15.01.00 Process Electrical, Wire/Cable	**26.50 clf**	**23**	**2,449**	**688**				**118.37 /clf**	**3,137**	**186.06 /clf**	**4,931**
				26.20.05.00	**Facility Electrical, HVAC**											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,699.59 /LS	5,700
					26.20.05.00 Facility Electrical, HVAC	***1.00* LS**			**3,500**				**3,500.00 /LS**	**3,500**	**5,699.59 /LS**	**5,700**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00* LS**	**64**	**6,660**	**4,926**				**11,586.20 /LS**	**11,586**	**18,384.74 /LS**	**18,385**
			26.40.PMP		**13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	360.00 lf	180	18,777	22,500	-	-	-	114.66 /lf	41,277	182.93 /lf	65,856
					Rigid galvanized steel plastic coated conduit elbows, 4" diameter, to 15' high	12.00 ea	36	3,755	2,352	-	-	-	508.95 /ea	6,107	806.12 /ea	9,673
					Rigid galvanized steel plastic coated conduit couplings, 4" diameter, to 15' high	12.00 ea	3	278	690	-	-	-	80.68 /ea	968	129.71 /ea	1,556
					Flexible metallic conduit, sealtite, 4" diameter	108.00 lf	72	7,503	2,160	-	-	-	89.48 /lf	9,663	140.67 /lf	15,192
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 4" diameter	12.00 ea	12	1,252	1,956	-	-	-	267.32 /ea	3,208	427.75 /ea	5,133
					Flexible metallic conduit, coupling sealtite to rigid, 4" diameter	12.00 ea	12	1,252	2,376	-	-	-	302.32 /ea	3,628	484.75 /ea	5,817
					26.00.99.00 Electrical, Other	***1.00* LS**	**315**	**32,818**	**32,034**				**64,851.56 /LS**	**64,852**	**103,228.54 /LS**	**103,229**
				26.10.03.00	**Site Electrical, Duct Bank**											
					PVC conduit, schedule 40, 4" diameter, to 15' H, incl terminations, fittings, & support	1,800.00 LF	450	46,943	10,350	-	-	-	31.83 /LF	57,293	49.94 /LF	89,895
					PVC conduit elbows, 4" diameter, to 15' H	12.00 ea	12	1,231	276	-	-	-	125.58 /ea	1,507	197.06 /ea	2,365
					PVC conduit, field bends, 45 Deg. to 90 Deg., 4" diameter	12.00 ea	12	1,252	-	-	-	-	104.32 /ea	1,252	162.31 /ea	1,948
					PVC adapters, 4" diameter, to 15' H	24.00 ea	12	1,252	115	-	-	-	56.96 /ea	1,367	88.97 /ea	2,135
					26.10.03.00 Site Electrical, Duct Bank	**1,800.00 LF**	**486**	**50,677**	**10,741**				**34.12 /LF**	**61,418**	**53.52 /LF**	**96,343**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Cable terminations, indoor, insulation diameter range, 15 kV, .525" to 1.025", pad mount	72.00 ea	180	18,777	7,848	-	-	-	369.79 /ea	26,625	583.28 /ea	41,996
					MV VFD Cable 3/C	27.00 clf	702	73,231	162,000	-	-	-	8,712.24 /clf	235,231	13,990.85 /clf	377,753
					26.15.01.00 Process Electrical, Wire/Cable	**27.00 clf**	**882**	**92,008**	**169,848**				**9,698.36 /clf**	**261,856**	**15,546.28 /clf**	**419,749**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Hi-Pot Test 15 KV	12.00 EA	24	2,504	-	2,400	-	-	408.63 /EA	4,904	575.82 /EA	6,910

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.25.03.00 Electrical Equipment, Switchgear - General	**12.00 EA**	**24**	**2,504**		**2,400**			**408.63 /EA**	**4,904**	**575.82 /EA**	**6,910**
					26.40.PMP 13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	***1.00* LS**	**1,707**	**178,006**	**212,623**	**2,400**			**393,029.12 /LS**	**393,029**	**626,230.70 /LS**	**626,231**
			26.41.PMP		**8000HP Pump Process Control Circuits and Connections**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	240.00 LF	55	5,723	5,400	-	-	-	46.34 /LF	11,123	73.74 /LF	17,698
					Rigid galvanized steel plastic coated conduit elbows, 2" diameter, to 15' high	12.00 ea	12	1,252	504	-	-	-	146.32 /ea	1,756	230.71 /ea	2,768
					Rigid galvanized steel plastic coated conduit couplings, 2" diameter, to 15' high	12.00 ea	2	189	172	-	-	-	30.10 /ea	361	47.87 /ea	574
					Flexible metallic conduit, sealtite, 2" diameter	72.00 lf	19	2,003	310	-	-	-	32.12 /lf	2,312	50.29 /lf	3,621
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 2" diameter	12.00 ea	5	501	306	-	-	-	67.23 /ea	807	106.45 /ea	1,277
					Flexible metallic conduit, coupling sealtite to rigid, 2" diameter	12.00 ea	10	1,001	378	-	-	-	114.95 /ea	1,379	181.15 /ea	2,174
					26.00.99.00 Electrical, Other	***1.00* LS**	**102**	**10,668**	**7,070**				**17,738.13 /LS**	**17,738**	**28,112.30 /LS**	**28,112**
				26.10.03.00	**Site Electrical, Duct Bank**											
					PVC conduit, schedule 40, 2" diameter, to 15' H, incl terminations, fittings, & support	1,200.00 LF	107	11,127	4,032	-	-	-	12.63 /LF	15,159	19.90 /LF	23,879
					PVC conduit elbows, 2" diameter, to 15' H	12.00 ea	5	541	42	-	-	-	48.63 /ea	584	75.92 /ea	911
					PVC conduit, field bends, 45 Deg. to 90 Deg., 2" diameter	12.00 ea	5	501	-	-	-	-	41.73 /ea	501	64.93 /ea	779
					PVC adapters, 2" diameter, to 15' H	24.00 ea	7	742	33	-	-	-	32.30 /ea	775	50.36 /ea	1,209
					26.10.03.00 Site Electrical, Duct Bank	**1,200.00 LF**	**124**	**12,911**	**4,108**				**14.18 /LF**	**17,019**	**22.31 /LF**	**26,778**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	147.70 clf	91	9,481	1,433	-	-	-	73.90 /clf	10,914	115.68 /clf	17,086
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	110.76 clf	127	13,205	3,323	-	-	-	149.22 /clf	16,528	234.35 /clf	25,957
					26.15.01.00 Process Electrical, Wire/Cable	**258.46 clf**	**217**	**22,686**	**4,755**				**106.17 /clf**	**27,442**	**166.54 /clf**	**43,043**
					26.41.PMP 8000HP Pump Process Control Circuits and Connections	**1,440.00 LF**	**444**	**46,265**	**15,933**				**43.19 /LF**	**62,198**	**68.01 /LF**	**97,933**
					26.15 Process Electrical	***1.00* LS**	**4,134**	**431,220**	**5,283,082**	**62,400**	**40,800**		**5,817,502.22 /LS**	**5,817,502**	**9,416,073.83 /LS**	**9,416,074**
		26.20			**Facility Electrical**											
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	20.00 lf	5	522	1,058	-	-	-	78.98 /lf	1,580	126.72 /lf	2,534
					Copper Bus Bar Supports	20.00 E	20	2,086	966	-	-	-	152.62 /E	3,052	240.97 /E	4,819
					Ground wire, copper wire, bare stranded, 4/0	35.00 clf	98	10,249	14,700	-	-	-	712.82 /clf	24,949	1,139.57 /clf	39,885
					Exothermic weld, 4/0 wire to 4/0 wire	234.00 ea	267	27,897	2,211	-	-	-	128.67 /ea	30,109	200.89 /ea	47,008
					26.15.11.00 Process Electrical, Grounding	***1.00* LS**	**391**	**40,754**	**18,935**				**59,689.27 /LS**	**59,689**	**94,246.59 /LS**	**94,247**
					26.05.GRDG Facility Grounding	***1.00* LS**	**391**	**40,754**	**18,935**				**59,689.27 /LS**	**59,689**	**94,246.59 /LS**	**94,247**
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	2,600.00 lf	260	27,122	13,390	-	-	-	15.58 /lf	40,512	24.62 /lf	64,006
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	150.00 ea	60	6,259	506	-	-	-	45.10 /ea	6,765	70.41 /ea	10,562
					Outlet boxes, pressed steel, covers, blank, 4" square	150.00 ea	19	1,956	116	-	-	-	13.81 /ea	2,071	21.54 /ea	3,231
					26.00.99.00 Electrical, Other	***1.00* LS**	**339**	**35,337**	**14,011**				**49,348.38 /LS**	**49,348**	**77,799.66 /LS**	**77,800**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	10.00 clf	8	835	205	-	-	-	103.95 /clf	1,040	163.23 /clf	1,632
					26.15.01.00 Process Electrical, Wire/Cable	**90.00 clf**	**66**	**6,904**	**1,301**				**91.17 /clf**	**8,205**	**142.90 /clf**	**12,861**
				26.20.03.00	**Facility Electrical, Lighting**											
					LED Strip Light, hdwe	150.00 ea	211	21,961	16,500	-	-	-	256.41 /ea	38,461	406.94 /ea	61,041
					Emergency ballast, material only, interior, factory installed in fixture	30.00 ea		-	4,560	-	-	-	152.00 /ea	4,560	247.53 /ea	7,426
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	12.00 ea	12	1,252	840	-	-	-	174.32 /ea	2,092	276.30 /ea	3,316
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	150.00 ea	38	3,912	818	-	-	-	31.53 /ea	4,729	49.45 /ea	7,418
					26.20.03.00 Facility Electrical, Lighting	***1.00* LS**	**260**	**27,125**	**22,718**				**49,842.66 /LS**	**49,843**	**79,199.96 /LS**	**79,200**
					26.25.LTG Interior Lighting and Control	***1.00* LS**	**665**	**69,366**	**38,030**				**107,395.93 /LS**	**107,396**	**169,860.37 /LS**	**169,860**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Allowance for lighting?	260.00 hrs	260	27,122	19,500		2,600	-	189.32 /hrs	49,222	300.01 /hrs	78,002
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.73 /lf	4,106
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.41 /ea	845
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.55 /ea	259
					26.00.99.00 Electrical, Other	***1.00* LS**	**288**	**30,026**	**19,924**		**2,600**		**52,550.63 /LS**	**52,551**	**83,210.91 /LS**	**83,211**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.35 /clf	1,684
					26.15.01.00 Process Electrical, Wire/Cable	**12.00 clf**	**9**	**910**	**164**				**89.57 /clf**	**1,075**	**140.35 /clf**	**1,684**
				26.15.07.00	**Lighting**											
					LED Area Light	12.00 E	9	939		-	-	-	78.24 /E	939	121.74 /E	1,461
					Wallpack Photocell	12.00 E	3	313		-	-	-	26.08 /E	313	40.58 /E	487
					26.15.07.00 Lighting	***1.00* LS**	**12**	**1,252**					**1,251.80 /LS**	**1,252**	**1,947.75 /LS**	**1,948**
					26.26.EXTLTG Exterior Lighting and Control	***1.00* LS**	**309**	**32,189**	**20,089**		**2,600**		**54,877.23 /LS**	**54,877**	**86,842.90 /LS**	**86,843**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	3,000.00 lf	300	31,295	15,450	-	-	-	15.58 /lf	46,745	24.62 /lf	73,853
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	36.00 ea	24	2,504	792	-	-	-	91.54 /ea	3,296	144.03 /ea	5,185
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.44 /ea	1,570
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.37 /ea	1,456
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.85 /ea	1,090
					26.00.99.00 Electrical, Other	***1.00* LS**	**336**	**35,078**	**17,548**				**52,625.93 /LS**	**52,626**	**83,155.78 /LS**	**83,156**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	20.00 clf	16	1,669	410	-	-	-	103.95 /clf	2,079	163.23 /clf	3,265
					26.15.01.00 Process Electrical, Wire/Cable	**100.00 clf**	**74**	**7,738**	**1,506**				**92.44 /clf**	**9,244**	**144.93 /clf**	**14,493**
					26.30.DEV Device Outlets	***1.00* LS**	**410**	**42,817**	**19,054**				**61,870.35 /LS**	**61,870**	**97,648.86 /LS**	**97,649**
			26.40.PMP		**13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A**											
				26.00.99.00	**Electrical, Other**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	96.00 hr	96	10,014	4,800	-	2,400	-	179.32 /hr	17,214	282.63 /hr	27,133
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**96**	**10,014**	**4,800**		**2,400**		**17,214.43 /LS**	**17,214**	**27,132.87 /LS**	**27,133**
					26.40.PMP 13.8kV 8000HP Pump Power Feeders 4", 3/C VFD Cable 300A	***1.00*** **LS**	**96**	**10,014**	**4,800**		**2,400**		**17,214.43 /LS**	**17,214**	**27,132.87 /LS**	**27,133**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.63 /hr	4,522
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,669**	**800**		**400**		**2,869.07 /LS**	**2,869**	**4,522.14 /LS**	**4,522**
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	50.00 ea	50	5,216	1,300	-	-	-	130.32 /ea	6,516	204.65 /ea	10,233
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	1,650.00 lf	41	4,303	5,247	-	-	-	5.79 /lf	9,550	9.24 /lf	15,240
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,103.00 /LS	20,103
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**126**	**13,170**	**11,547**	**5,000**			**29,717.03 /LS**	**29,717**	**45,575.51 /LS**	**45,576**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**142**	**14,839**	**12,347**	**5,000**	**400**		**32,586.10 /LS**	**32,586**	**50,097.65 /LS**	**50,098**
					26.20 Facility Electrical	***1.00*** **LS**	**2,013**	**209,979**	**113,254**	**5,000**	**5,400**		**333,633.31 /LS**	**333,633**	**525,829.24 /LS**	**525,829**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	800.00 LF	71	7,418	2,768	-	-	-	12.73 /LF	10,186	20.06 /LF	16,050
					Flexible metallic conduit, steel, 1-1/2" diameter	60.00 LF	10	1,001	153	-	-	-	19.24 /LF	1,154	30.12 /LF	1,807
					Flexible metallic conduit, steel, 2" diameter	60.00 LF	12	1,252	194	-	-	-	24.09 /LF	1,446	37.72 /LF	2,263
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	4.00 ea	1	104	98	-	-	-	50.58 /ea	202	80.48 /ea	322
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	4.00 ea	1	145	104	-	-	-	62.29 /ea	249	98.80 /ea	395
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	4.00 ea	1	145	184	-	-	-	82.29 /ea	329	131.37 /ea	525
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	4.00 ea	2	185	268	-	-	-	113.36 /ea	453	181.25 /ea	725
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	4.00 ea	80	8,345	8,500	-	-	-	4,211.34 /ea	16,845	6,706.72 /ea	26,827
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	4.00 ea	114	11,922	16,500	-	-	-	7,105.49 /ea	28,422	11,354.88 /ea	45,420
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	4.00 ea	114	11,922	20,700	-	-	-	8,155.49 /ea	32,622	13,064.75 /ea	52,259
					Panelboards, 3 pole 4 wire, main circuit breaker, 120/208 V, 225 amp	8.00 ea	64	6,676	24,800	-	-	-	3,934.54 /ea	31,476	6,346.71 /ea	50,774
					Panelboards, 3 pole 3 wire, main circuit breaker, 480 V, 225 amp	8.00 ea	64	6,676	28,800	-	-	-	4,434.54 /ea	35,476	7,160.94 /ea	57,288
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**535**	**55,793**	**103,069**				**158,862.01 /LS**	**158,862**	**254,654.60 /LS**	**254,655**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	5.00 clf	6	642	273	-	-	-	182.89 /clf	914	288.52 /clf	1,443
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	3.00 clf	5	472	233	-	-	-	234.96 /clf	705	371.21 /clf	1,114
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	20.00 clf	40	4,173	3,180	-	-	-	367.63 /clf	7,353	583.55 /clf	11,671
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	12.00 clf	44	4,552	4,620	-	-	-	764.33 /clf	9,172	1,217.18 /clf	14,606
					26.15.01.00 Process Electrical, Wire/Cable	**40.00 clf**	**94**	**9,839**	**8,305**				**453.60 /clf**	**18,144**	**720.83 /clf**	**28,833**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	4.00 EA	91	9,538	13,500	-	-	-	5,759.39 /EA	23,038	9,206.04 /EA	36,824
					26.25.06.00 Transformers, Dry Type	**4.00 EA**	**91**	**9,538**	**13,500**				**5,759.39 /EA**	**23,038**	**9,206.04 /EA**	**36,824**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**721**	**75,170**	**124,874**				**200,043.58 /LS**	**200,044**	**320,312.12 /LS**	**320,312**
					26.25 Electrical Equipment	***1.00*** **LS**	**721**	**75,170**	**124,874**				**200,043.58 /LS**	**200,044**	**320,312.12 /LS**	**320,312**
					26.0 Electrical Work	***1.00*** **LS**	**6,868**	**716,369**	**5,521,210**	**67,400**	**46,200**		**6,351,179.11 /LS**	**6,351,179**	**10,262,215.19 /LS**	**10,262,215**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.73 /lf	21,350
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.41 /ea	4,225
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.54 /ea	172
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	52.00 ea	7	678	86	-	-	-	14.70 /ea	764	22.99 /ea	1,196
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**144**	**14,970**	**2,242**				**17,211.58 /LS**	**17,212**	**26,942.99 /LS**	**26,943**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.68 /clf	34,704
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.68 /clf**	**34,704**
				28.35.01.00	**Electronic Safety and Security**											
					Detection Systems, fire alarm control panel, alarm device, excluding wires & conduits	24.00 ea	24	2,504	5,520	-	-	-	334.32 /ea	8,024	536.86 /ea	12,885
					Detection Systems, fire alarm control panel, actuating device, excluding wires & conduits	4.00 ea	4	417	1,360	-	-	-	444.32 /ea	1,777	715.99 /ea	2,864
					Detection Systems, fire alarm control panel, addressable without voice, up to 200 points, excluding wires & conduits, inluding vendor design, startup	1.00 ea	14	1,460	4,575	2,500	-	-	8,535.26 /ea	8,535	12,862.17 /ea	12,862
					Detection Systems, fire alarm control panel, battery & rack, excluding wires & conduits	1.00 ea	2	209	460	-	-	-	668.63 /ea	669	1,073.72 /ea	1,074
					Detection Systems, fire alarm control panel, battery & rack, automatic charger, excluding wires & conduits	1.00 ea	1	104	525	-	-	-	629.32 /ea	629	1,017.22 /ea	1,017
					Detection Systems, visual alarm, ADA type, excluding wires & conduits	24.00 ea	29	2,989	2,856	-	-	-	243.56 /ea	5,845	387.59 /ea	9,302
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**74**	**7,683**	**15,296**	**2,500**			**25,479.47 /LS**	**25,479**	**40,003.86 /LS**	**40,004**
					28.10.FA Fire Alarm System	***1.00*** **LS**	**402**	**41,911**	**20,448**	**2,500**			**64,859.57 /LS**	**64,860**	**101,651.05 /LS**	**101,651**
			28.20.AC		**Access Control System**											
				28.35.01.00	**Electronic Safety and Security**											
					Card reader - all in allowance per each (incl circuit, cards, CX)	7.00 ea	84	8,763	5,600	-	-	-	2,051.80 /ea	14,363	3,250.51 /ea	22,754
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**84**	**8,763**	**5,600**				**14,362.63 /LS**	**14,363**	**22,753.59 /LS**	**22,754**
					28.20.AC Access Control System	***1.00*** **LS**	**84**	**8,763**	**5,600**				**14,362.63 /LS**	**14,363**	**22,753.59 /LS**	**22,754**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Closed circuit television system (CCTV), industrial quality, for additional camera stations, add	12.00 ea	36	3,709	8,280	-	-	-	999.09 /ea	11,989	1,604.56 /ea	19,255
					Closed circuit television system (CCTV), industrial quality, for weatherproof camera station, add	12.00 ea	74	7,703	6,480	-	-	-	1,181.95 /ea	14,183	1,878.21 /ea	22,539
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	200	20,863	10,000	10,000	-	-	40,863.40 /LS	40,863	61,306.60 /LS	61,307

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**309**	**32,276**	**24,760**	**10,000**			**67,035.86 /LS**	**67,036**	**103,099.88 /LS**	**103,100**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**309**	**32,276**	**24,760**	**10,000**			**67,035.86 /LS**	**67,036**	**103,099.88 /LS**	**103,100**
			28.20.ID		**Intrusion Detection System**											
				28.35.01.00	**Electronic Safety and Security**											
					Securitized door, all-in allowance per each (incl circuit, devices, CX)	7.00 ea	140	14,604	7,000	-	-	-	3,086.34 /ea	21,604	4,874.71 /ea	34,123
					Door controller (all-in cost including vendor program and startup)	3.00 ea	15	1,565	6,000	1,500	-	-	3,021.59 /ea	9,065	4,696.45 /ea	14,089
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**155**	**16,169**	**13,000**	**1,500**			**30,669.14 /LS**	**30,669**	**48,212.28 /LS**	**48,212**
					28.20.ID Intrusion Detection System	***1.00*** **LS**	**155**	**16,169**	**13,000**	**1,500**			**30,669.14 /LS**	**30,669**	**48,212.28 /LS**	**48,212**
					28.00 Electronic Safety and Security	***1.00*** **LS**	**950**	**99,119**	**63,808**	**14,000**			**176,927.20 /LS**	**176,927**	**275,716.80 /LS**	**275,717**
					28.0 Electronic Safety and Security	***1.00*** **LS**	**950**	**99,119**	**63,808**	**14,000**			**176,927.20 /LS**	**176,927**	**275,716.80 /LS**	**275,717**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.300		**Funk PGP, Process Piping**											
				40.10.02.60	**Process Pipe, Carbon Steel, 60"**											
					Elbow, steel, butt weld, 60' Dia	21.00 ea	756	85,533	199,500	-	4,727	-	13,798.10 /ea	289,760	18,018.54 /ea	378,389
					Piping, pipe, WSP, plain end, welded, 60" diameter, excludes excavation or backfill	720.00 LF	1,080	112,517	302,400	-	53,624	-	650.75 /LF	468,541	847.76 /LF	610,390
					Butterfly Valves	14.00 ea	336	38,015	1,190,000	-	21,840	-	89,275.34 /ea	1,249,855	118,288.28 /ea	1,656,036
					Check Valves	13.00 ea	312	35,299	455,000	-	20,280	-	39,275.34 /ea	510,579	51,865.55 /ea	674,252
					Dismantling Joints	13.00 ea	312	35,299	481,000	-	20,280	-	41,275.34 /ea	536,579	54,522.45 /ea	708,792
					ARV, Complete	13.00 ea	416	42,596	45,500		6,760		7,296.64 /ea	94,856	9,418.00 /ea	122,434
					Miscellaneous Items Allowance	1.00 ls				250,000			250,000.00 /ls	250,000	313,988.69 /ls	313,989
					40.10.02.60 Process Pipe, Carbon Steel, 60"	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,200.39 /LF**	**4,464,282**
					40.00.300 Funk PGP, Process Piping	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,200.39 /LF**	**4,464,282**
					40.11 Process Pipe, Carbon Steel	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,200.39 /LF**	**4,464,282**
					40.0 Process Pipe	**720.00 LF**	**3,212**	**349,259**	**2,673,400**	**250,000**	**127,511**		**4,722.46 /LF**	**3,400,171**	**6,200.39 /LF**	**4,464,282**
	40.9				**Instrumentation**											
		40.90			**Instrumentation & Controls**											
			26.40.90		**I&C**											
				28.35.01.00	**Electronic Safety and Security**											
					Radar LIT and Staff Gauges	1.00 LS	400	41,727	15,000	-	-	-	56,726.80 /LS	56,727	89,351.83 /LS	89,352
					I&C circuits	1.00 LS	400	41,727	25,000	-	-	-	66,726.80 /LS	66,727	105,636.40 /LS	105,636
					PITs	1.00 LS	32	3,338	10,000		-	-	13,338.14 /LS	13,338	21,478.53 /LS	21,479
					LCP1 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.56 /LS	29,270
					LCP3 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.54 /LS	29,270
					LCP2 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.55 /LS	29,270
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**1,072**	**111,828**	**80,000**				**191,827.82 /LS**	**191,828**	**304,275.41 /LS**	**304,275**
					26.40.90 I&C	***1.00*** **LS**	**1,072**	**111,828**	**80,000**				**191,827.82 /LS**	**191,828**	**304,275.41 /LS**	**304,275**
			40.90.I&C		**Instrumentation & Control**											
				40.90.99.01	**Instrumentation Allowance**											
					Pump I&C Components	12.00 ea	600	49,542	90,000		-	-	11,628.50 /ea	139,542	18,637.17 /ea	223,646
					40.90.99.01 Instrumentation Allowance	***1.00*** **LS**	**600**	**49,542**	**90,000**				**139,542.00 /LS**	**139,542**	**223,646.03 /LS**	**223,646**
					40.90.I&C Instrumentation & Control	***1.00*** **LS**	**600**	**49,542**	**90,000**				**139,542.00 /LS**	**139,542**	**223,646.03 /LS**	**223,646**
					40.90 Instrumentation & Controls	***1.00*** **LS**	**1,672**	**161,370**	**170,000**				**331,369.82 /LS**	**331,370**	**527,921.44 /LS**	**527,921**
					40.9 Instrumentation	***1.00*** **LS**	**1,672**	**161,370**	**170,000**				**331,369.82 /LS**	**331,370**	**527,921.44 /LS**	**527,921**
	44.0				**Pollution and Waste Control Equipment**											
		44.40			**Process Equipment - Pumps**											
			44.40.300		**Funk PGP, Furnish and Install Pumps**											
				44.05.42.06	**Vertical Turbine Pump: 8000 hp**											
					Functional Testing, Pumps, >1000 hp	12.00 ea	384	40,486	1,200	-	-	-	3,473.86 /ea	41,686	4,370.26 /ea	52,443
					Align Pump & Motor, >1000 hp	12.00 ea	480	50,608	-	33,600	-	-	7,017.32 /ea	84,208	8,813.44 /ea	105,761
					Vibration Testing, Pumps, >1000 hp	12.00 ea	192	20,243	-	16,800	-	-	3,086.93 /ea	37,043	3,877.04 /ea	46,525
					Sleeved anchor bolts - Large	144.00 ea	144	15,182	4,032	-	-	-	133.43 /ea	19,214	169.62 /ea	24,425
					Anchor bolts for leveling pump cans	48.00 ea	192	20,243	7,200	-	-	-	571.73 /ea	27,443	728.94 /ea	34,989
					Non-Shrink Machine Grout	192.00 cuft	182	19,231	14,208	-	-	-	174.16 /cuft	33,439	224.10 /cuft	43,028
					Grease, Oil, and Lube Pumps, >1000 hp	13.00 ea	208	21,930	1,950	-	-	-	1,836.93 /ea	23,880	2,317.97 /ea	30,134
					FURNISH Vertical Turbine Pump, SS, 8000 hp	12.00 EA		-		-	-	0	0.01 /EA	0	994,687.20 /EA	11,936,246
					44.05.42.06 Vertical Turbine Pump: 8000 hp	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,022,795.90 /EA**	**12,273,551**
					44.40.300 Funk PGP, Furnish and Install Pumps	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,022,795.90 /EA**	**12,273,551**
					44.40 Process Equipment - Pumps	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,022,795.90 /EA**	**12,273,551**
					44.0 Pollution and Waste Control Equipment	**12.00 EA**	**1,782**	**187,924**	**28,590**	**50,400**		**0**	**22,242.83 /EA**	**266,914**	**1,022,795.90 /EA**	**12,273,551**
					2255 TRR PGP Pumping Plant	***1.00*** **LS**	**173,476**	**18,491,497**	**20,532,984**	**1,001,414**	**509,690**	**0**	**40,535,585.05 /LS**	**40,535,585**	**72,155,875.87 /LS**	**72,155,876**
2260					**TRR PGP Switchgear Building**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.002		**8" thick Slab on Grade**											
				03.10.05.08	**Cast-In-Place Concrete, Slabs on Grade, 8" thick**											
					Fine grade, for slab on grade, by hand	2,989.00 sf	21	1,891	90	-	-	-	0.66 /sf	1,981	0.97 /sf	2,891
					Fill, gravel subbase, under building slab on grade	112.00 cy	56	5,062	3,136	-	-	-	73.19 /cy	8,198	108.60 /cy	12,163
					Concrete pumping, subcontract, all inclusive price	150.00 cy		-	-	3,750	-	-	25.00 /cy	3,750	36.40 /cy	5,460
					Slab on grade edge forms, 7" to 12"	148.00 sf	27	2,886	148	-	-	-	20.50 /sf	3,034	29.92 /sf	4,428
					Concrete, ready mix, 4500 psi	150.00 CY		-	33,000	-	-	-	220.00 /CY	33,000	336.26 /CY	50,439
					Add for concrete waste, 4500 psi	5.00 cy		-	1,100	-	-	-	220.00 /cy	1,100	336.26 /cy	1,681
					Placing concrete, concrete pump	150.00 cy	219	19,765	-	-	-	-	131.77 /cy	19,765	191.85 /cy	28,777
					Finishing floors, monolithic, trowel finish (machine)	2,989.00 sf	60	5,460	60	-	-	-	1.85 /sf	5,520	2.69 /sf	8,041
					Curing, membrane spray	2,989.00 sf	6	540	120	-	-	-	0.22 /sf	660	0.32 /sf	969
					Polyethelene vapor barrier, 10 mil thick	29.89 sq	7	708	317	-	-	-	34.30 /sq	1,025	50.71 /sq	1,516
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	13.25 ton	212	24,804	19,875	-	-	-	3,372.03 /ton	44,679	5,018.28 /ton	66,492
					Reinforcing in place, unloading & sorting, add to above - slabs	13.25 ton	7	885	-	-	307	-	89.94 /ton	1,192	130.95 /ton	1,735
					03.10.05.08 Cast-In-Place Concrete, Slabs on Grade, 8" thick	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,230.62 /CY**	**184,593**
					MOA-03.20.002 8" thick Slab on Grade	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,230.62 /CY**	**184,593**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.18 Cast-In-Place Concrete, Slabs on Grade	**150.00 CY**	**614**	**62,002**	**57,845**	**3,750**	**307**		**826.03 /CY**	**123,904**	**1,230.62 /CY**	**184,593**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.001		**4'-0" thick CIP Concrete Roof Deck**											
				03.10.10.03.5	**Cast-In-Place Concrete, Elevated Decks, 3.5" thick**											
					Concrete pumping, subcontract, all inclusive price	2.03 cy		-	-	51	-	-	25.00 /cy	51	36.40 /cy	74
					Forms in place, elevated slab, soffit	188.00 sf	38	4,074	235	-	-	-	22.92 /sf	4,309	33.46 /sf	6,290
					Forms in place, elevated slab, edge form	16.04 sf	4	435	20	-	-	-	28.34 /sf	455	41.34 /sf	663
					Slab shoring	1,880.00 cf	13	1,426	94	-	-	-	0.81 /cf	1,520	1.18 /cf	2,220
					Reinforcing in place, A615 Gr 60, priced per lbs.	274.17 lb		-	411	110	-	-	1.90 /lb	521	2.88 /lb	788
					Concrete, ready mix, 4500 psi	2.03 CY		-	447	-	-	-	220.00 /CY	447	336.26 /CY	683
					Add for concrete waste, 4500 psi	0.10 cy		-	22	-	-	-	220.00 /cy	22	336.27 /cy	34
					Placing concrete, concrete pump, for elevated slab to 12" thick	2.03 cy	2	189	-	-	-	-	93.19 /cy	189	135.68 /cy	276
					Curing, membrane spray	188.00 sf	0	34	8	-	-	-	0.22 /sf	42	0.32 /sf	61
					Structural concrete,ready mix,normal weight,1:2 mix topping,includes sand,portland cement and water,delivered,excludes all additives and treatments	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	188.00 sf	3	240	-	-	10	-	1.33 /sf	250	1.93 /sf	363
					Structural steel member, 100-ton project, 1 to 2 story building, W8x24, A992 steel, shop fabricated, incl shop primer, bolted connections	17.00 lf	2	215	740	-	85	-	61.14 /lf	1,039	92.17 /lf	1,567
					03.10.10.03.5 Cast-In-Place Concrete, Elevated Decks, 3.5" thick	**2.03 CY**	**62**	**6,612**	**2,417**	**160**	**94**		**4,570.95 /CY**	**9,284**	**6,741.36 /CY**	**13,692**
					MOA-03.30.001 4'-0" thick CIP Concrete Roof Deck	**2.03 CY**	**62**	**6,612**	**2,417**	**160**	**94**		**4,570.95 /CY**	**9,284**	**6,741.36 /CY**	**13,692**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**2.03 CY**	**62**	**6,612**	**2,417**	**160**	**94**		**4,570.95 /CY**	**9,284**	**6,741.36 /CY**	**13,692**
		03.27			**Cast-In-Place Concrete, Equipment Pads**											
			MOA-03.15.001		**4" thick Equipment Pad**											
				03.10.13.04	**Cast-In-Place Concrete, Equipment Pads, 4" thick**											
					Fine grade, for slab on grade, by hand	669.00 sf	5	423	20	-	-	-	0.66 /sf	443	0.97 /sf	647
					Concrete pumping, subcontract, all inclusive price	8.26 cy		-	-	206	-	-	25.00 /cy	206	36.40 /cy	301
					Edge forms, housekeeping pads, up to 6"	245.00 lf	13	1,407	64	-	-	-	6.00 /lf	1,471	8.76 /lf	2,146
					Wire welded fabric, 6 x 6 - W1.4 x W1.4	669.00 sf	7	783	54	-	-	-	1.25 /sf	836	1.83 /sf	1,221
					Concrete, ready mix, 4500 psi	8.26 CY		-	1,817	-	-	-	220.00 /CY	1,817	336.26 /CY	2,777
					Add for concrete waste, 4500 psi	0.41 cy		-	91	-	-	-	220.00 /cy	91	336.27 /cy	139
					Placing concrete, concrete pump	8.26 cy	12	1,088	-	-	-	-	131.77 /cy	1,088	191.85 /cy	1,584
					Finish housekeeping pads	669.00 sf	27	2,444	20	-	-	-	3.68 /sf	2,464	5.37 /sf	3,589
					Curing, membrane spray	669.00 sf	1	121	27	-	-	-	0.22 /sf	148	0.32 /sf	217
					Polyethelene vapor barrier, 6 mil thick	6.69 sq	1	159	24	-	-	-	27.33 /sq	183	40.06 /sq	268
					03.10.13.04 Cast-In-Place Concrete, Equipment Pads, 4" thick	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,560.67 /CY**	**12,890**
					MOA-03.15.001 4" thick Equipment Pad	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,560.67 /CY**	**12,890**
					03.27 Cast-In-Place Concrete, Equipment Pads	**8.26 CY**	**66**	**6,425**	**2,116**	**206**			**1,059.17 /CY**	**8,748**	**1,560.67 /CY**	**12,890**
					03.0 Concrete Work	**160.29 CY**	**742**	**75,040**	**62,378**	**4,117**	**402**		**885.49 /CY**	**141,936**	**1,317.45 /CY**	**211,174**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	**Thermal & Moisture Protection, Membrane Roofing**											
					Ladder, shop fabricated, aluminum, 20" W, bolted to concrete, incl cage	15.00 vlf	10	1,199	2,595	-	45	-	255.97 /vlf	3,839	372.42 /vlf	5,586
					Framing, miscellaneous wood blocking/backing for sheet metal	1.40 mbf	45	4,881	2,380	-	-	-	5,186.34 /mbf	7,261	7,415.01 /mbf	10,381
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	2,850.00 bf	36	3,698	5,700	-	-	-	3.30 /bf	9,398	4.78 /bf	13,626
					Cants, mineral or fiber, trapezoidal, 1" x 4" x 48"	70.00 lf	2	178	27	-	-	-	2.92 /lf	204	4.13 /lf	289
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	35.10 SQ	56	5,827	4,949	-	271	-	314.73 /SQ	11,047	452.72 /SQ	15,890
					Coping, galvanized steel, 24 gauge, 16" wall	220.00 lf	30	3,260	893	-	-	-	18.88 /lf	4,153	26.83 /lf	5,904
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	30.00 lf	2	202	140	-	-	-	11.38 /lf	342	16.34 /lf	490
					Reglet, galvanized steel, in concrete parapet, 24 gauge	440.00 lf	16	1,704	1,236	-	-	-	6.68 /lf	2,941	9.60 /lf	4,224
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	440.00 lf	23	2,860	858	-	-	-	8.45 /lf	3,718	12.02 /lf	5,289
					Roof Hatches, with curb, 1" fiberglass insulation, galvanized steel curb & cover, 2'-6" x 8'	1.00 ea	5	516	2,500	-	-	-	3,016.02 /ea	3,016	4,421.64 /ea	4,422
					Drains, scupper flr, oblique stn, C.I., 8"x12" top, 5" & 6" pipe size	2.00 ea	2	256	1,880	-	-	-	1,067.97 /ea	2,136	1,569.68 /ea	3,139
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	**35.10 SQ**	**226**	**24,580**	**23,158**		**316**		**1,369.07 /SQ**	**48,054**	**1,972.69 /SQ**	**69,241**
					07.00.000 TPO Membrane Roofing	**35.10 SQ**	**226**	**24,580**	**23,158**		**316**		**1,369.07 /SQ**	**48,054**	**1,972.69 /SQ**	**69,241**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	1.60 ton	10	1,226	16,800	-	356	-	11,488.99 /ton	18,382	16,914.23 /ton	27,063
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	16.00 ton	116	14,492	168,000	-	4,209	-	11,668.80 /ton	186,701	17,167.06 /ton	274,673
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	2,850.00 SF	21	2,650	9,377	-	99	-	4.25 /SF	12,126	6.22 /SF	17,728
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	1,300.00 sf	9	788	130	-	-	-	0.71 /sf	918	1.00 /sf	1,300
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	1,300.00 sf	17	1,575	507	-	-	-	1.60 /sf	2,082	2.28 /sf	2,965
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**2,850.00 SF**	**173**	**20,732**	**194,814**		**4,664**		**77.27 /SF**	**220,209**	**113.59 /SF**	**323,728**
					MOA-07.00.001 Metal Roof	**2,850.00 SF**	**173**	**20,732**	**194,814**		**4,664**		**77.27 /SF**	**220,209**	**113.59 /SF**	**323,728**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**399**	**45,312**	**217,972**		**4,980**		**268,263.78 /LS**	**268,264**	**392,969.68 /LS**	**392,970**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**399**	**45,312**	**217,972**		**4,980**		**268,263.78 /LS**	**268,264**	**392,969.68 /LS**	**392,970**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	3.00 opng	8	872	111	-	-	-	327.56 /opng	983	463.22 /opng	1,390
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	3.00 EA	24	2,976	3,600	-	-	-	2,192.14 /EA	6,576	3,169.05 /EA	9,507
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	3.00 ea	3	291	2,910	-	-	-	1,066.84 /ea	3,201	1,570.26 /ea	4,711
					08.10.01.10 Doors and Frames, Hollow Metal	**3.00 EA**	**35**	**4,139**	**6,621**				**3,586.55 /EA**	**10,760**	**5,202.53 /EA**	**15,608**
				08.30.01.20	**Specialty Doors and Frames, Coiling Doors**											
					Doors, rolling service, steel, manual, 20 gauge, 10' x 12' high, incl. hardware	1.00 EA	13	1,654	2,750	-	-	-	4,403.57 /EA	4,404	6,390.60 /EA	6,391
					Doors, rolling service, steel, manual, for 18 gauge doors, add	120.00 sf		-	214	-	-	-	1.78 /sf	214	2.63 /sf	316
					Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jambs, add	24.00 lf		-	54	-	-	-	2.25 /lf	54	3.33 /lf	80
					Doors, rolling service, steel, manual, for weatherstripping, hood, extruded rubber, add	10.00 lf		-	295	-	-	-	29.50 /lf	295	43.62 /lf	436

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				08.30.01.20	Specialty Doors and Frames, Coiling Doors											
					Doors, rolling service, steel, manual, motor operators for, jack shaft type, over 14' x 14' opening	1.00 ea	3	397	1,025	-	-	-	1,421.86 /ea	1,422	2,073.38 /ea	2,073
					08.30.01.20 Specialty Doors and Frames, Coiling Doors	1.00 EA	17	2,050	4,338				6,388.03 /EA	6,388	9,295.75 /EA	9,296
					MOA-08.10.001 Exterior Doors	4.00 EA	51	6,189	10,959				4,286.92 /EA	17,148	6,225.84 /EA	24,903
					08.10 Doors and Frames - Exterior Doors	4.00 EA	51	6,189	10,959				4,286.92 /EA	17,148	6,225.84 /EA	24,903
		08.15			Doors and Frames - Interior Doors											
			MOA-08.15.001		Interior Doors											
				08.10.01.10	Doors and Frames, Hollow Metal											
					Doors, steel, interior, 7'-0" x 3'-0" wide	1.00 EA	4	396	1,108	-	-	-	1,503.44 /EA	1,503	2,194.08 /EA	2,194
					08.10.01.10 Doors and Frames, Hollow Metal	1.00 EA	4	396	1,108				1,503.44 /EA	1,503	2,194.08 /EA	2,194
					MOA-08.15.001 Interior Doors	1.00 EA	4	396	1,108				1,503.44 /EA	1,503	2,194.08 /EA	2,194
					08.15 Doors and Frames - Interior Doors	1.00 EA	4	396	1,108				1,503.44 /EA	1,503	2,194.08 /EA	2,194
					08.0 Openings	5.00 EA	55	6,585	12,066				3,730.22 /EA	18,651	5,419.49 /EA	27,097
	09.0				Finishes											
		09.00			Finishes - Miscellaneous											
			MOA-09.00.001		Floor Finishes											
				09.60.01.20	Finishes, Resilient Flooring											
					Cove base, rubber or vinyl, standard colors, 6" h, 0.080" thick	238.00 lf	6	602	369	-	-	-	4.08 /lf	971	5.85 /lf	1,392
					Paints & coatings, miscellaneous interior, floors, concrete/wood, oil base, primer/sealer coat, roller	2,783.00 SF	9	778	278	-	-	-	0.38 /SF	1,057	0.54 /SF	1,506
					09.60.01.20 Finishes, Resilient Flooring	2,783.00 SF	15	1,381	647				0.73 /SF	2,028	1.04 /SF	2,898
					MOA-09.00.001 Floor Finishes	2,783.00 SF	15	1,381	647				0.73 /SF	2,028	1.04 /SF	2,898
					09.00 Finishes - Miscellaneous	2,783.00 SF	15	1,381	647				0.73 /SF	2,028	1.04 /SF	2,898
		09.20			Plaster and Gypsum Board											
			MOA-09.20.002		3-5/8" thick Interior Metal Stud Wall - Type B											
				09.00.99.00	Finishes, Other											
					Blanket insulation, for walls or ceilings, unfaced fiberglass, 3-1/2" thick, R13, 23" wide	2,110.00 SF	11	1,149	1,245	-	-	-	1.13 /SF	2,394	1.64 /SF	3,457
					Metal stud partition, non-load bearing, galvanized, 10' high, 2-1/2" wide, 20 gauge, 24" O.C., includes top & bottom track	2,110.00 sf	28	3,065	971	-	-	-	1.91 /sf	4,036	2.72 /sf	5,744
					Pack void between top track and flutes and seal both sides	150.00 lf	8	817	88	-	-	-	6.03 /lf	905	8.52 /lf	1,279
					Gypsum wallboard, on walls, fire resistant, w/compound skim coat (level 5 finish), 5/8" thick	4,220.00 sf	87	9,492	2,532	-	-	-	2.85 /sf	12,024	4.05 /sf	17,089
					09.00.99.00 Finishes, Other	2,110.00 SF	133	14,523	4,835				9.17 /SF	19,359	13.07 /SF	27,568
					MOA-09.20.002 3-5/8" thick Interior Metal Stud Wall - Type B	2,110.00 SF	133	14,523	4,835				9.17 /SF	19,359	13.07 /SF	27,568
					09.20 Plaster and Gypsum Board	2,110.00 SF	133	14,523	4,835				9.17 /SF	19,359	13.07 /SF	27,568
					09.0 Finishes	*1.00* LS	148	15,904	5,482				21,386.37 /LS	21,386	30,465.75 /LS	30,466
	26.0				Electrical Work											
		26.15			Process Electrical											
			26.02.PRI		Primary Feeds fromSubstation											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Roadway steel plates, 8' x 20' x 1"thick, avg cost per sf, monthly	200.00 sf		-	-	-	200	-	1.00 /sf	200	1.56 /sf	311
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS					200		200.00 /LS	200	311.19 /LS	311
				26.10.03.00	Site Electrical, Duct Bank											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	45.42 ton	538	62,983	68,130	-	-	-	2,886.69 /ton	131,113	4,600.31 /ton	208,946
					Concrete (red) envelope/encasement, poured neat	363.33 CY	727	66,606	28,158	-	130	-	261.18 /CY	94,895	412.00 /CY	149,694
					End bulkheads, plywood, concrete envelope/encasement	320.00 sf	38	4,001	234	-	-	-	13.23 /sf	4,235	20.64 /sf	6,606
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	1,840.00 LF	92	9,597	5,814	-	-	-	8.38 /LF	15,412	13.26 /LF	24,401
					Electrical Underground Ducts and Manholes, PVC, elbows, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	16.00 ea	14	1,484	368	-	-	-	115.73 /ea	1,852	181.73 /ea	2,908
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	16.00 ea	9	954	158	-	-	-	69.51 /ea	1,112	108.87 /ea	1,742
					Electrical Underground Ducts and Manholes, PVC, base spacer, 4" diameter, schedule 40, installed by direct burial in slab or duct bank	368.00 ea	72	7,490	655	-	-	-	22.13 /ea	8,146	34.57 /ea	12,722
					26.10.03.00 Site Electrical, Duct Bank	1,840.00 LF	1,490	153,116	103,518		130		139.55 /LF	256,764	221.21 /LF	407,018
				26.10.04.00	Site Electrical, Manholes/Handholes											
					Elctrc undrgr ducts and manhls,man holes,precast w/iron racks&pulling irons,ci frame and cover,6'10"7",excluds excavtn,backfll and cast place concrete	2.00 EA	62	6,262	7,550	-	2,319	-	8,065.49 /EA	16,131	12,823.22 /EA	25,646
					26.10.04.00 Site Electrical, Manholes/Handholes	2.00 EA	62	6,262	7,550		2,319		8,065.49 /EA	16,131	12,823.22 /EA	25,646
				26.15.01.00	Process Electrical, Wire/Cable											
					Cable terminations, indoor, insulation diameter range, 15 kV, .975" to 1.570", pad mount	12.00 ea	16	1,669	1,956	-	-	-	302.09 /ea	3,625	481.85 /ea	5,782
					Cable terminations, outdoor systems, 15 kV, #4 stranded to 1/0 stranded	12.00 ea	18	1,890	2,664	-	-	-	379.46 /ea	4,554	606.52 /ea	7,278
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 500 kcmil, in conduit, excl splicing & terminations	31.20 clf	208	21,698	32,760	-	-	-	1,745.45 /clf	54,458	2,791.96 /clf	87,109
					Substation Feeder Termination Enclosure	6.00 ea	192	20,029	51,000	-	-	-	11,838.14 /ea	71,029	19,035.87 /ea	114,215
					26.15.01.00 Process Electrical, Wire/Cable	31.20 clf	434	45,285	88,380				4,284.15 /clf	133,665	6,871.31 /clf	214,385
				26.15.11.00	Process Electrical, Grounding											
					Grounding rod, copper clad, 8' long, 3/4" diameter	2.00 ea	3	315	72	-	-	-	193.46 /ea	387	303.62 /ea	607
					Ground wire, copper wire, bare stranded, 4/0	4.00 clf	11	1,171	1,680	-	-	-	712.82 /clf	2,851	1,139.57 /clf	4,558
					26.15.11.00 Process Electrical, Grounding	*1.00* LS	14	1,486	1,752				3,238.20 /LS	3,238	5,165.51 /LS	5,166
				26.25.03.00	Electrical Equipment, Switchgear - General											
					Hi-Pot Test 15 KV	12.00 EA	24	2,522	-	2,400	-	-	410.18 /EA	4,922	578.22 /EA	6,939
					26.25.03.00 Electrical Equipment, Switchgear - General	12.00 EA	24	2,522		2,400			410.18 /EA	4,922	578.22 /EA	6,939
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	1,253.50 CY	21	2,443	-	-	16,494	-	15.11 /CY	18,937	23.51 /CY	29,464
					31.20.09.10 Earthworks, Sitework, Backfill	1,253.50 CY	21	2,443			16,494		15.11 /CY	18,937	23.51 /CY	29,464
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 1/4 mile round trip, 5.0 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	1,670.95 CY	69	6,800	-	-	3,558	-	6.20 /CY	10,358	9.65 /CY	16,117
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	1,670.95 CY	69	6,800			3,558		6.20 /CY	10,358	9.65 /CY	16,117
				31.25.01.00	Earthworks, Structural, Excavation											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	1,453.33 CY	78	8,574	-	-	42,404	-	35.08 /CY	50,977	54.58 /CY	79,318
					31.25.01.00 Earthworks, Structural, Excavation	**1,453.33 CY**	**78**	**8,574**			**42,404**		**35.08 /CY**	**50,977**	**54.58 /CY**	**79,318**
					26.02.PRI Primary Feeds fromSubstation	**1,840.00 LF**	**2,193**	**226,489**	**201,200**	**2,400**	**65,105**		**269.13 /LF**	**495,193**	**426.29 /LF**	**784,364**
			26.04.MVBUS		**Medium Voltage Overhead Bus Duct 2000A**											
				26.00.99.00	**Electrical, Other**											
					Cable terminations, indoor, insulation diameter range, 5 kV, .525" to 1.025", pad mount	26.00 ea	26	2,712	2,275	-	-	-	191.82 /ea	4,987	304.80 /ea	7,925
					Threaded rod, steel, painted, 1/2" diameter	768.00 lf	44	4,578	5,184	-	-	-	12.71 /lf	9,762	20.27 /lf	15,565
					Nuts, galvanized steel, 1/2" diameter	16.00 c		-	744	-	-	-	46.50 /c	744	75.72 /c	1,212
					Channels, steel, 1-1/2" x 1-1/2"	896.00 lf	102	10,682	3,297	-	-	-	15.60 /lf	13,979	24.54 /lf	21,990
					Spring nuts, steel channel, long, 1/2"	1,024.00 ea	102	10,682	850	-	-	-	11.26 /ea	11,532	17.58 /ea	18,005
					26.00.99.00 Electrical, Other	***1.00* LS**	**275**	**28,654**	**12,350**				**41,004.59 /LS**	**41,005**	**64,696.68 /LS**	**64,697**
				26.15.04.00	**Process Electrical, Bus Duct**											
					Bus duct, copper, 3 pole 3 wire, 2000 amp	540.00 LF	720	75,108	540,000	-	-	-	1,139.09 /LF	615,108	1,844.87 /LF	996,231
					Bus duct, copper, 3 pole 3 wire, elbow, 2000 amp V	11.00 ea	88	9,180	55,000	-	-	-	5,834.54 /ea	64,180	9,440.77 /ea	103,849
					Bus duct, copper, 3 pole 3 wire, elbow, 2000 amp H	4.00 ea	32	3,338	20,000	-	-	-	5,834.54 /ea	23,338	9,440.78 /ea	37,763
					Bus duct, copper, 3 pole 3 wire, tee fittings, 2000 amp V	5.00 ea	80	8,345	37,500	-	-	-	9,169.07 /ea	45,845	14,810.41 /ea	74,052
					Bus duct, copper, 3 pole 3 wire, tee fittings, 2000 amp H	4.00 ea	64	6,676	30,000	-	-	-	9,169.07 /ea	36,676	14,810.42 /ea	59,242
					Bus duct, copper, 3 pole 3 wire, expansion fitting, 2000 amp	4.00 ea	25	2,568	30,000	-	-	-	8,141.95 /ea	32,568	13,212.26 /ea	52,849
					Bus duct fittings, flange, wall, with vapor barrier, 2000 amp	4.00 ea	16	1,669	3,400	-	-	-	1,267.27 /ea	5,069	2,033.44 /ea	8,134
					Bus duct fittings, switchboard stub, 3 pole, 3 wire, 2000 amp	17.00 ea	113	11,823	85,000	-	-	-	5,695.45 /ea	96,823	9,224.36 /ea	156,814
					Bus duct fittings, bellows, 3 pole, 3 wire, 2000 amp	21.00 ea	140	14,604	52,500	-	-	-	3,195.45 /ea	67,104	5,153.22 /ea	108,218
					Bus duct fittings, hanger, spring type, 2000 amp	128.00 ea	171	17,803	19,200	-	-	-	289.09 /ea	37,003	460.68 /ea	58,968
					26.15.04.00 Process Electrical, Bus Duct	**540.00 LF**	**1,449**	**151,115**	**872,600**				**1,895.77 /LF**	**1,023,715**	**3,066.89 /LF**	**1,656,118**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Hi-Pot Test 15 KV	13.00 EA	26	2,712	-	2,600	-	-	408.63 /EA	5,312	575.82 /EA	7,486
					26.25.03.00 Electrical Equipment, Switchgear - General	**13.00 EA**	**26**	**2,712**		**2,600**			**408.63 /EA**	**5,312**	**575.82 /EA**	**7,486**
					26.04.MVBUS Medium Voltage Overhead Bus Duct 2000A	***1.00* LS**	**1,749**	**182,482**	**884,950**	**2,600**			**1,070,032.03 /LS**	**1,070,032**	**1,728,300.34 /LS**	**1,728,300**
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Transformer, dry-type, low operating temperature (80 Deg. C), 3 phase 480 V primary 120/208 V secondary, 45 kVA	2.00 ea	40	4,173	13,800	-	-	-	8,986.34 /ea	17,973	14,482.59 /ea	28,965
					Transformer, dry-type, 3 phase 15 kV primary 277/480 volt secondary, 1500 kVA	2.00 ea	148	16,566	113,000	-	1,458	-	65,512.00 /ea	131,024	106,029.96 /ea	212,060
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	20	2,086	2,600	-	-	-	4,686.34 /ea	4,686	7,480.22 /ea	7,480
					Switchboard A	1.00 ea	80	8,946	70,000	-	1,181	-	80,126.60 /ea	80,127	129,748.38 /ea	129,748
					Switchboard B	1.00 ea	80	8,946	70,000	-	1,181	-	80,126.60 /ea	80,127	129,748.35 /ea	129,748
					Automatic transfer switches, enclosed, 3 pole, 480 volt, 100 amp	1.00 ea	6	642	1,675	-	-	-	2,316.95 /ea	2,317	3,726.50 /ea	3,727
					26.00.99.00 Electrical, Other	***1.00* LS**	**374**	**41,358**	**271,075**		**3,820**		**316,253.17 /LS**	**316,253**	**511,728.56 /LS**	**511,729**
					26.20.DIST Electrical Distribution Equipment	***1.00* LS**	**374**	**41,358**	**271,075**		**3,820**		**316,253.17 /LS**	**316,253**	**511,728.56 /LS**	**511,729**
			26.20.GEN		**Generator**											
				26.00.99.00	**Electrical, Other**											
					Circuit breaker, 3 pole, 600 volt, 800 amp, enclosed (NEMA 1), 2CB	1.00 ea	40	4,173	20,000	-	-	-	24,172.68 /ea	24,173	39,061.61 /ea	39,062
					Generator set,diesel,3 phase 4 wire,277/480 v,600 kw,incl battery,charger,muffler,automatic transfer switch&day tank,excl conduit,wiring,& concrete	1.00 ea	118	13,155	155,500	-	1,158	-	169,813.17 /ea	169,813	275,495.36 /ea	275,495
					Grounding, pad, startup test	1.00 ea	80	8,946	15,000	-	1,181	-	25,126.60 /ea	25,127	40,183.35 /ea	40,183
					800A feeds to boards	1.00 ea	80	8,946	70,000	-	1,181	-	80,126.60 /ea	80,127	129,748.37 /ea	129,748
					26.00.99.00 Electrical, Other	***1.00* LS**	**318**	**35,219**	**260,500**		**3,520**		**299,239.05 /LS**	**299,239**	**484,488.69 /LS**	**484,489**
					26.20.GEN Generator	***1.00* LS**	**318**	**35,219**	**260,500**		**3,520**		**299,239.05 /LS**	**299,239**	**484,488.69 /LS**	**484,489**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,600.30 /ton	4,140
					Concrete (red) envelope/encasement, poured neat	8.90 CY	18	1,632	690	-	16	-	262.62 /CY	2,338	414.24 /CY	3,688
					End bulkheads, plywood, concrete envelope/encasement	1.07 sf	0	13	1	-	-	-	13.23 /sf	14	20.66 /sf	22
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	800.00 LF	80	8,345	2,976	-	-	-	14.15 /LF	11,321	22.29 /LF	17,831
					26.10.02.00 Site Electrical, Buried Conduit	**800.00 LF**	**109**	**11,239**	**5,017**		**16**		**20.34 /LF**	**16,272**	**32.10 /LF**	**25,682**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	116.05 CY	2	226	-	-	3,054	-	28.26 /CY	3,280	43.98 /CY	5,104
					31.20.09.10 Earthworks, Sitework, Backfill	**116.05 CY**	**2**	**226**			**3,054**		**28.26 /CY**	**3,280**	**43.98 /CY**	**5,104**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	9.87 CY	1	98	-	-	105	-	20.57 /CY	203	32.00 /CY	316
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**9.87 CY**	**1**	**98**			**105**		**20.57 /CY**	**203**	**32.00 /CY**	**316**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	125.92 CY	7	743	-	-	3,674	-	35.08 /CY	4,417	54.58 /CY	6,872
					31.25.01.00 Earthworks, Structural, Excavation	**125.92 CY**	**7**	**743**			**3,674**		**35.08 /CY**	**4,417**	**54.58 /CY**	**6,872**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00* LS**	**118**	**12,306**	**5,017**		**6,849**		**24,171.26 /LS**	**24,171**	**37,973.09 /LS**	**37,973**
					26.15 Process Electrical	***1.00* LS**	**4,752**	**497,854**	**1,622,741**	**5,000**	**79,293**		**2,204,888.23 /LS**	**2,204,888**	**3,546,855.12 /LS**	**3,546,855**
		26.20			**Facility Electrical**											
			26.04.MVBUS		**Medium Voltage Overhead Bus Duct 2000A**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	40.00 hr	40	4,173	2,000	-	1,000	-	179.32 /hr	7,173	282.63 /hr	11,305
					26.00.99.00 Electrical, Other	***1.00* LS**	**40**	**4,173**	**2,000**		**1,000**		**7,172.68 /LS**	**7,173**	**11,305.37 /LS**	**11,305**
					26.04.MVBUS Medium Voltage Overhead Bus Duct 2000A	***1.00* LS**	**40**	**4,173**	**2,000**		**1,000**		**7,172.68 /LS**	**7,173**	**11,305.37 /LS**	**11,305**
			26.05.GRDG		**Facility Grounding**											
				26.15.11.00	**Process Electrical, Grounding**											
					Copper Bus Bar .25"x 3.0"	20.00 lf	5	522	1,058	-	-	-	78.98 /lf	1,580	126.72 /lf	2,534
					Copper Bus Bar Supports	20.00 E	20	2,086	966	-	-	-	152.62 /E	3,052	240.97 /E	4,819
					Ground wire, copper wire, bare stranded, 4/0	35.00 clf	98	10,249	14,700	-	-	-	712.82 /clf	24,949	1,139.57 /clf	39,885

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.11.00	Process Electrical, Grounding											
					Exothermic weld, 4/0 wire to 4/0 wire	234.00 ea	267	27,897	2,211	-	-	-	128.67 /ea	30,109	200.89 /ea	47,008
					26.15.11.00 Process Electrical, Grounding	1.00 LS	391	40,754	18,935				59,689.27 /LS	59,689	94,246.62 /LS	94,247
					26.05.GRDG Facility Grounding	1.00 LS	391	40,754	18,935				59,689.27 /LS	59,689	94,246.62 /LS	94,247
			26.25.LTG		Interior Lighting and Control											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	2,600.00 lf	260	27,122	13,390	-	-	-	15.58 /lf	40,512	24.62 /lf	64,006
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	150.00 ea	60	6,259	506	-	-	-	45.10 /ea	6,765	70.41 /ea	10,562
					Outlet boxes, pressed steel, covers, blank, 4" square	150.00 ea	19	1,956	116	-	-	-	13.81 /ea	2,071	21.54 /ea	3,231
					26.00.99.00 Electrical, Other	1.00 LS	339	35,337	14,011				49,348.38 /LS	49,348	77,799.65 /LS	77,800
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	10.00 clf	8	835	205	-	-	-	103.95 /clf	1,040	163.23 /clf	1,632
					26.15.01.00 Process Electrical, Wire/Cable	90.00 clf	66	6,904	1,301				91.17 /clf	8,205	142.90 /clf	12,861
				26.20.03.00	Facility Electrical, Lighting											
					LED Strip Light, hdwe	150.00 ea	211	21,961	16,500	-	-	-	256.41 /ea	38,461	406.94 /ea	61,041
					Emergency ballast, material only, interior, factory installed in fixture	30.00 ea		-	4,560	-	-	-	152.00 /ea	4,560	247.53 /ea	7,426
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	12.00 ea	12	1,252	840	-	-	-	174.32 /ea	2,092	276.31 /ea	3,316
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	150.00 ea	38	3,912	818	-	-	-	31.53 /ea	4,729	49.45 /ea	7,418
					26.20.03.00 Facility Electrical, Lighting	1.00 LS	260	27,125	22,718				49,842.66 /LS	49,843	79,199.95 /LS	79,200
					26.25.LTG Interior Lighting and Control	1.00 LS	665	69,366	38,030				107,395.93 /LS	107,396	169,860.35 /LS	169,860
			26.26.EXTLTG		Exterior Lighting and Control											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.73 /lf	4,106
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.41 /ea	845
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.54 /ea	259
					26.00.99.00 Electrical, Other	1.00 LS	28	2,904	424				3,328.21 /LS	3,328	5,209.28 /LS	5,209
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.36 /clf	1,684
					26.15.01.00 Process Electrical, Wire/Cable	12.00 clf	9	910	164				89.57 /clf	1,075	140.36 /clf	1,684
				26.15.07.00	Lighting											
					LED Area Light	12.00 E	9	939		-	-	-	78.24 /E	939	121.74 /E	1,461
					Wallpack Photocell	12.00 E	3	313		-	-	-	26.08 /E	313	40.58 /E	487
					26.15.07.00 Lighting	1.00 LS	12	1,252					1,251.80 /LS	1,252	1,947.75 /LS	1,948
					26.26.EXTLTG Exterior Lighting and Control	1.00 LS	49	5,066	589				5,654.81 /LS	5,655	8,841.29 /LS	8,841
			26.30.DEV		Device Outlets											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	3,000.00 lf	300	31,295	15,450	-	-	-	15.58 /lf	46,745	24.62 /lf	73,853
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	36.00 ea	24	2,504	792	-	-	-	91.54 /ea	3,296	144.03 /ea	5,185
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.44 /ea	1,570
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.37 /ea	1,456
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.85 /ea	1,090
					26.00.99.00 Electrical, Other	1.00 LS	336	35,078	17,548				52,625.93 /LS	52,626	83,155.77 /LS	83,156
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	20.00 clf	16	1,669	410	-	-	-	103.95 /clf	2,079	163.23 /clf	3,265
					26.15.01.00 Process Electrical, Wire/Cable	100.00 clf	74	7,738	1,506				92.44 /clf	9,244	144.93 /clf	14,493
					26.30.DEV Device Outlets	1.00 LS	410	42,817	19,054				61,870.35 /LS	61,870	97,648.85 /LS	97,649
			26.40.EQCON		Facility Equipment Connections and Controls											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.73 /lf	3,519
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.22 /lf	2,845
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.65 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.65 /ea	345
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.46 /ea	355
					26.00.99.00 Electrical, Other	1.00 LS	40	4,212	738				4,949.45 /LS	4,949	7,754.61 /LS	7,755
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	4.50 clf	3	341	62	-	-	-	89.57 /clf	403	140.36 /clf	632
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.23 /clf	1,469
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.68 /clf	2,830
					26.15.01.00 Process Electrical, Wire/Cable	26.50 clf	23	2,449	688				118.37 /clf	3,137	186.06 /clf	4,931
				26.20.05.00	Facility Electrical, HVAC											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,699.59 /LS	5,700
					26.20.05.00 Facility Electrical, HVAC	1.00 LS			3,500				3,500.00 /LS	3,500	5,699.59 /LS	5,700
					26.40.EQCON Facility Equipment Connections and Controls	1.00 LS	64	6,660	4,926				11,586.20 /LS	11,586	18,384.74 /LS	18,385
			26.90.LPS		Facility Lightning Protection System											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.63 /hr	4,522
					26.00.99.00 Electrical, Other	1.00 LS	16	1,669	800		400		2,869.07 /LS	2,869	4,522.14 /LS	4,522
				26.15.10.00	Process Electrical, Lightning Protection											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	50.00 ea	50	5,216	1,300	-	-	-	130.32 /ea	6,516	204.65 /ea	10,233
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	1,650.00 lf	41	4,303	5,247	-	-	-	5.79 /lf	9,550	9.24 /lf	15,240
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,103.00 /LS	20,103
					26.15.10.00 Process Electrical, Lightning Protection	1.00 LS	126	13,170	11,547	5,000			29,717.03 /LS	29,717	45,575.52 /LS	45,576
					26.90.LPS Facility Lightning Protection System	1.00 LS	142	14,839	12,347	5,000	400		32,586.10 /LS	32,586	50,097.66 /LS	50,098
					26.20 Facility Electrical	1.00 LS	1,761	183,676	95,880	5,000	1,400		285,955.34 /LS	285,955	450,384.88 /LS	450,385
		26.25			Electrical Equipment											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
			26.03.MVSWGR		**MV Switchgear**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	80.00 hr	80	8,345	4,000	-	2,000	-	179.32 /hr	14,345	282.63 /hr	22,611
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**80**	**8,345**	**4,000**		**2,000**		**14,345.36 /LS**	**14,345**	**22,610.72 /LS**	**22,611**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					MV SWGR-A	16,800.00 FA	420	43,813	840,000	-	10,500	-	53.23 /FA	894,313	86.45 /FA	1,452,411
					MV SWGR-B	15,600.00 FA	390	40,684	780,000	-	9,750	-	53.23 /FA	830,434	86.45 /FA	1,348,667
					MV SWGR-C	10,000.00 FA	250	26,079	500,000	-	6,250	-	53.23 /FA	532,329	86.45 /FA	864,530
					26.25.03.00 Electrical Equipment, Switchgear - General	***3.00*** **EA**	**1,060**	**110,576**	**2,120,000**		**26,500**		**752,358.67 /EA**	**2,257,076**	**1,221,869.40 /EA**	**3,665,608**
					26.03.MVSWGR MV Switchgear	**42,400.00 FA**	**1,140**	**118,921**	**2,124,000**		**28,500**		**53.57 /FA**	**2,271,421**	**86.99 /FA**	**3,688,219**
			26.03.SWGREQ		**Station Aux Xfmr, Btty**											
				26.00.99.00	**Electrical, Other**											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	24.00 hr	24	2,504	1,200	-	600	-	179.32 /hr	4,304	282.63 /hr	6,783
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**24**	**2,504**	**1,200**		**600**		**4,303.61 /LS**	**4,304**	**6,783.23 /LS**	**6,783**
				26.25.01.00	**Station Equipment**											
					Control batteries	100.00 kah	400	42,778	54,000	-	17,008	-	1,137.86 /kah	113,786	1,809.61 /kah	180,961
					Conversion equipment, station service transformers	1.00 ea	10	1,069	105,000	-	425	-	106,494.65 /ea	106,495	173,313.36 /ea	173,313
					26.25.01.00 Station Equipment	***1.00*** **LS**	**410**	**43,847**	**159,000**		**17,434**		**220,280.71 /LS**	**220,281**	**354,274.33 /LS**	**354,274**
					26.03.SWGREQ Station Aux Xfmr, Btty	***1.00*** **LS**	**434**	**46,351**	**160,200**		**18,034**		**224,584.32 /LS**	**224,584**	**361,057.56 /LS**	**361,058**
					26.25 Electrical Equipment	***1.00*** **LS**	**1,574**	**165,272**	**2,284,200**		**46,534**		**2,496,005.70 /LS**	**2,496,006**	**4,049,276.49 /LS**	**4,049,276**
					26.0 Electrical Work	***1.00*** **LS**	**8,087**	**846,802**	**4,002,821**	**10,000**	**127,226**		**4,986,849.27 /LS**	**4,986,849**	**8,046,516.49 /LS**	**8,046,516**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.10.COMEQ		**Communications Room Equipment**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	12	1,284	214	-	-	-	7.49 /lf	1,498	11.73 /lf	2,346
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.42 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.54 /ea	86
					Duplex receptacle, grounded, 120 volt, 20 amp	4.00 ea	1	124	43	-	-	-	41.56 /ea	166	65.44 /ea	262
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,627**	**273**				**1,899.76 /LS**	**1,900**	**2,975.74 /LS**	**2,976**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Closet Distribution Frame (CDF), 7 feet tall, 19 inches wide	1.00 E	3	315	123	-	-	-	438.27 /E	438	690.85 /E	691
					Network Equipment Allowance	1.00 LS	200	21,018	20,000	-	-	-	41,018.20 /LS	41,018	65,272.46 /LS	65,272
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	6.50 clf	5	493	89	-	-	-	89.57 /clf	582	140.35 /clf	912
					26.15.01.00 Process Electrical, Wire/Cable	**6.50 clf**	**208**	**21,827**	**20,212**				**6,467.49 /clf**	**42,039**	**10,288.55 /clf**	**66,876**
				26.15.03.00	**Process Electrical, Cable Tray**											
					Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 12" wide, to 15' elevation, incl fittings & supports	30.00 LF	6	582	539	-	-	-	37.36 /LF	1,121	59.43 /LF	1,783
					26.15.03.00 Process Electrical, Cable Tray	**30.00 LF**	**6**	**582**	**539**				**37.36 /LF**	**1,121**	**59.43 /LF**	**1,783**
					27.10.COMEQ Communications Room Equipment	***1.00*** **LS**	**229**	**24,035**	**21,024**				**45,059.14 /LS**	**45,059**	**71,634.19 /LS**	**71,634**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	130.00 clf	80	8,345	1,261	-	-	-	73.90 /clf	9,606	115.68 /clf	15,038
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	130.00 clf	149	15,499	3,900	-	-	-	149.22 /clf	19,399	234.35 /clf	30,466
					26.15.01.00 Process Electrical, Wire/Cable	**260.00 clf**	**229**	**23,844**	**5,161**				**111.56 /clf**	**29,005**	**175.02 /clf**	**45,504**
				26.15.11.00	**Process Electrical, Grounding**											
					Ground wire, copper wire, bare stranded, 4/0	1.55 clf	4	452	649	-	-	-	712.82 /clf	1,101	1,139.56 /clf	1,761
					Water pipe ground clamps, heavy duty, bronze, 1-1/4" to 2" diameter	1.50 ea	2	156	47	-	-	-	135.32 /ea	203	212.80 /ea	319
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**6**	**609**	**695**				**1,304.29 /LS**	**1,304**	**2,079.82 /LS**	**2,080**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**234**	**24,453**	**5,856**				**30,309.18 /LS**	**30,309**	**47,584.30 /LS**	**47,584**
					27.00 Telecommunications	***1.00*** **LS**	**463**	**48,488**	**26,880**				**75,368.32 /LS**	**75,368**	**119,218.49 /LS**	**119,218**
					27.0 Telecommunications - Network	***1.00*** **LS**	**463**	**48,488**	**26,880**				**75,368.32 /LS**	**75,368**	**119,218.49 /LS**	**119,218**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.73 /lf	21,350
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.41 /ea	4,225
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.55 /ea	172
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	52.00 ea	7	678	86	-	-	-	14.70 /ea	764	22.99 /ea	1,196
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**144**	**14,970**	**2,242**				**17,211.58 /LS**	**17,212**	**26,942.99 /LS**	**26,943**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.68 /clf	34,704
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.68 /clf**	**34,704**
				28.35.01.00	**Electronic Safety and Security**											
					Detection Systems, fire alarm control panel, alarm device, excluding wires & conduits	24.00 ea	24	2,504	5,520	-	-	-	334.32 /ea	8,024	536.86 /ea	12,885
					Detection Systems, fire alarm control panel, actuating device, excluding wires & conduits	4.00 ea	4	417	1,360	-	-	-	444.32 /ea	1,777	715.99 /ea	2,864
					Detection Systems, fire alarm control panel, addressable without voice, up to 200 points, excluding wires & conduits, inluding vendor design, startup	1.00 ea	14	1,460	4,575	2,500	-	-	8,535.26 /ea	8,535	12,862.18 /ea	12,862
					Detection Systems, fire alarm control panel, battery & rack, excluding wires & conduits	1.00 ea	2	209	460	-	-	-	668.63 /ea	669	1,073.71 /ea	1,074
					Detection Systems, fire alarm control panel, battery & rack, automatic charger, excluding wires & conduits	1.00 ea	1	104	525	-	-	-	629.32 /ea	629	1,017.24 /ea	1,017
					Detection Systems, visual alarm, ADA type, excluding wires & conduits	24.00 ea	29	2,989	2,856	-	-	-	243.56 /ea	5,845	387.59 /ea	9,302
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**74**	**7,683**	**15,296**	**2,500**			**25,479.47 /LS**	**25,479**	**40,003.87 /LS**	**40,004**
					28.10.FA Fire Alarm System	***1.00*** **LS**	**402**	**41,911**	**20,448**	**2,500**			**64,859.57 /LS**	**64,860**	**101,651.06 /LS**	**101,651**
			28.20.AC		**Access Control System**											
				28.35.01.00	**Electronic Safety and Security**											
					Card reader - all in allowance per each (incl circuit, cards, CX)	7.00 ea	84	8,763	5,600	-	-	-	2,051.80 /ea	14,363	3,250.51 /ea	22,754
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**84**	**8,763**	**5,600**				**14,362.63 /LS**	**14,363**	**22,753.59 /LS**	**22,754**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					28.20.AC Access Control System	***1.00*** **LS**	**84**	**8,763**	**5,600**				**14,362.63 /LS**	**14,363**	**22,753.59 /LS**	**22,754**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Closed circuit television system (CCTV), industrial quality, for additional camera stations, add	12.00 ea	36	3,709	8,280	-	-	-	999.09 /ea	11,989	1,604.56 /ea	19,255
					Closed circuit television system (CCTV), industrial quality, for weatherproof camera station, add	12.00 ea	74	7,703	6,480	-	-	-	1,181.95 /ea	14,183	1,878.21 /ea	22,539
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	200	20,863	10,000	10,000	-	-	40,863.40 /LS	40,863	61,306.61 /LS	61,307
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**309**	**32,276**	**24,760**	**10,000**			**67,035.86 /LS**	**67,036**	**103,099.87 /LS**	**103,100**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**309**	**32,276**	**24,760**	**10,000**			**67,035.86 /LS**	**67,036**	**103,099.87 /LS**	**103,100**
			28.20.ID		**Intrusion Detection System**											
				28.35.01.00	**Electronic Safety and Security**											
					Securitized door, all-in allowance per each (incl circuit, devices, CX)	7.00 ea	140	14,604	7,000	-	-	-	3,086.34 /ea	21,604	4,874.71 /ea	34,123
					Door controller (all-in cost including vendor program and startup)	3.00 ea	15	1,565	6,000	1,500	-	-	3,021.59 /ea	9,065	4,696.45 /ea	14,089
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**155**	**16,169**	**13,000**	**1,500**			**30,669.14 /LS**	**30,669**	**48,212.29 /LS**	**48,212**
					28.20.ID Intrusion Detection System	***1.00*** **LS**	**155**	**16,169**	**13,000**	**1,500**			**30,669.14 /LS**	**30,669**	**48,212.29 /LS**	**48,212**
					28.00 Electronic Safety and Security	***1.00*** **LS**	**950**	**99,119**	**63,808**	**14,000**			**176,927.20 /LS**	**176,927**	**275,716.81 /LS**	**275,717**
					28.0 Electronic Safety and Security	***1.00*** **LS**	**950**	**99,119**	**63,808**	**14,000**			**176,927.20 /LS**	**176,927**	**275,716.81 /LS**	**275,717**
					2260 TRR PGP Switchgear Building	***1.00*** **LS**	**10,844**	**1,137,249**	**4,391,408**	**28,117**	**132,608**		**5,689,381.81 /LS**	**5,689,382**	**9,103,159.08 /LS**	**9,103,159**
2265					**TRR PGP Generating Plant**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.005		**4'-0" thick Mat Slab on Grade**											
				03.10.05.48	**Cast-In-Place Concrete, Slabs on Grade, 48" thick**											
					Fine grade, for slab on grade, by hand	5,898.00 sf	41	3,732	177	-	-	-	0.66 /sf	3,909	0.97 /sf	5,704
					Fill, gravel subbase, under building slab on grade	436.89 cy	218	19,745	12,233	-	-	-	73.19 /cy	31,978	108.60 /cy	47,445
					Concrete pumping, subcontract, all inclusive price	874.00 cy		-	-	21,850	-	-	25.00 /cy	21,850	36.40 /cy	31,813
					Base slab edge forms, 36" to 48"	1,356.00 sf	339	36,728	1,831	-	-	-	28.44 /sf	38,558	41.50 /sf	56,272
					Base slab sump forms	128.00 sf	32	3,467	160	-	-	-	28.34 /sf	3,627	41.35 /sf	5,292
					Keyway form	339.00 lf	51	5,509	170	-	-	-	16.75 /lf	5,679	24.43 /lf	8,280
					Expansion joint material, closed cell neoprene, 1"	1,356.00 sf	41	4,407	8,136	-	-	-	9.25 /sf	12,543	13.90 /sf	18,852
					Waterstop, PVC, center bulb, 9" wide	339.00 lf	27	2,938	1,017	-	-	-	11.67 /lf	3,955	17.20 /lf	5,832
					Concrete, ready mix, 4500 psi	874.00 CY		-	192,280	-	-	-	220.00 /CY	192,280	336.26 /CY	293,891
					Add for concrete waste, 4500 psi	27.00 cy		-	5,940	-	-	-	220.00 /cy	5,940	336.26 /cy	9,079
					Placing concrete, concrete pump, for base slab 36" to 48"	874.00 cy	857	77,489	-	-	-	-	88.66 /cy	77,489	129.08 /cy	112,820
					Finishing floors, monolithic, trowel finish (machine)	5,898.00 sf	118	10,775	118	-	-	-	1.85 /sf	10,893	2.69 /sf	15,868
					Construction Joint Prep.	1,356.00 sf	108	9,805	68	-	-	-	7.28 /sf	9,873	10.60 /sf	14,380
					Contraction Joint Option, Slabs, Sawcut 1/8" x 1/5"	339.00 lf		-	-	1,017	-	-	3.00 /lf	1,017	4.37 /lf	1,481
					Contraction Joint Option, Slabs, Preformed Joint	339.00 lf		-	678	-	-	-	2.00 /lf	678	3.06 /lf	1,036
					Curing, membrane spray	5,898.00 sf	12	1,066	236	-	-	-	0.22 /sf	1,302	0.32 /sf	1,913
					Perimeter insulation, polystyrene, 2" thick, R8	1,356.00 sf	16		786	-	-	-	0.58 /sf	786	0.89 /sf	1,202
					Polyethelene vapor barrier, 10 mil thick	58.98 sq	13	1,398	625	-	-	-	34.30 /sq	2,023	50.71 /sq	2,991
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	76.50 ton	1,224	143,210	114,750	-		-	3,372.03 /ton	257,960	5,018.28 /ton	383,898
					Reinforcing in place, unloading & sorting, add to above - slabs	76.50 ton	43	5,107	-	-	1,774	-	89.94 /ton	6,881	130.95 /ton	10,018
					Reinforcing steel, crane cost for handling, average, add	76.50 ton	47	5,551	-	-	1,928	-	97.76 /ton	7,479	142.34 /ton	10,889
					03.10.05.48 Cast-In-Place Concrete, Slabs on Grade, 48" thick	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,188.74 /CY**	**1,038,956**
					MOA-03.20.005 4'-0" thick Mat Slab on Grade	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,188.74 /CY**	**1,038,956**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**874.00 CY**	**3,188**	**330,927**	**339,204**	**22,867**	**3,702**		**797.14 /CY**	**696,700**	**1,188.74 /CY**	**1,038,956**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			MOA-03.25.011		**1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade**											
				03.10.00.12	**Concrete, Cast-in-Place, Grade Walls, 12" Wide**											
					Concrete pumping, subcontract, all inclusive price	56.00 cy		-	-	1,400	-	-	25.00 /cy	1,400	36.40 /cy	2,038
					Forms in place, structural walls, > 8' to 16' high, hand set	2,995.95 sf	599	64,917	3,745	-	-	-	22.92 /sf	68,662	33.46 /sf	100,240
					Concrete, ready mix, 4500 psi	56.00 CY		-	12,320	-	-	-	220.00 /CY	12,320	336.26 /CY	18,831
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump, for structural wall to 12" thick	56.00 cy	67	6,094	-	-	-	-	108.81 /cy	6,094	158.43 /cy	8,872
					Patch & plug tieholes	2,995.95 sf	45	4,062	60	-	-	-	1.38 /sf	4,122	2.00 /sf	6,006
					Stone rub	2,995.95 sf	150	13,540	90	-	-	-	4.55 /sf	13,630	6.63 /sf	19,851
					Curing, membrane spray	2,995.95 sf	6	542	120	-	-	-	0.22 /sf	661	0.32 /sf	972
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.00 ton	80	9,360	7,500	-		-	3,372.03 /ton	16,860	5,018.28 /ton	25,091
					Reinforcing in place, unloading & sorting, add to above - slabs	5.00 ton	3	334	-	-	116	-	89.94 /ton	450	130.96 /ton	655
					Reinforcing steel, crane cost for handling, average, add	5.00 ton	3	363	-	-	126	-	97.76 /ton	489	142.34 /ton	712
					03.10.00.12 Concrete, Cast-in-Place, Grade Walls, 12" Wide	**56.00 CY**	**953**	**99,211**	**24,275**	**1,400**	**242**		**2,234.42 /CY**	**125,127**	**3,284.64 /CY**	**183,940**
					MOA-03.25.011 1'-0" thick CIP Exterior Wall - 10'-4" Av. Height - Above Grade	**56.00 CY**	**953**	**99,211**	**24,275**	**1,400**	**242**		**2,234.42 /CY**	**125,127**	**3,284.64 /CY**	**183,940**
			MOA-03.25.012		**3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	1,660.00 cy		-	-	41,500	-	-	25.00 /cy	41,500	36.40 /cy	60,422
					Forms in place, structural walls, > 16' high, hand set	29,872.50 sf	5,078	550,191	40,328	-	-	-	19.77 /sf	590,519	28.88 /sf	862,692
					Concrete, ready mix, 4500 psi	1,660.00 CY		-	365,200	-	-	-	220.00 /CY	365,200	336.26 /CY	558,192
					Add for concrete waste, 4500 psi	50.00 cy		-	11,000	-	-	-	220.00 /cy	11,000	336.26 /cy	16,813
					Placing concrete, concrete pump, for structural wall >24" thick	1,660.00 cy	1,832	165,629	-	-	-	-	99.78 /cy	165,629	145.27 /cy	241,148
					Patch & plug tieholes	29,872.50 sf	448	40,502	597	-	-	-	1.38 /sf	41,100	2.00 /sf	59,883
					Stone rub	29,872.50 sf	1,494	135,007	896	-	-	-	4.55 /sf	135,903	6.63 /sf	197,934
					Curing, membrane spray	29,872.50 sf	60	5,400	1,195	-	-	-	0.22 /sf	6,595	0.32 /sf	9,689
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	145.50 ton	2,328	272,381	218,250	-		-	3,372.03 /ton	490,631	5,018.28 /ton	730,159
					Reinforcing in place, unloading & sorting, add to above - slabs	145.50 ton	81	9,713	-	-	3,374	-	89.94 /ton	13,087	130.95 /ton	19,054
					Reinforcing steel, crane cost for handling, average, add	145.50 ton	89	10,558	-	-	3,667	-	97.76 /ton	14,225	142.34 /ton	20,711
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**1,660.00 CY**	**11,410**	**1,189,381**	**637,466**	**41,500**	**7,041**		**1,129.75 /CY**	**1,875,388**	**1,672.71 /CY**	**2,776,696**
					MOA-03.25.012 3'-0" thick CIP Exterior Wall - 26'-3" High - Above Grade	**1,660.00 CY**	**11,410**	**1,189,381**	**637,466**	**41,500**	**7,041**		**1,129.75 /CY**	**1,875,388**	**1,672.71 /CY**	**2,776,696**
			MOA-03.25.013		**1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	1,082.00 cy		-	-	27,050	-	-	25.00 /cy	27,050	36.40 /cy	39,384
					Forms in place, structural walls, > 16' high, hand set	21,584.30 sf	3,669	397,539	29,139	-	-	-	19.77 /sf	426,678	28.88 /sf	623,336
					Concrete, ready mix, 4500 psi	1,082.00 CY		-	238,040	-	-	-	220.00 /CY	238,040	336.26 /CY	363,833
					Add for concrete waste, 4500 psi	33.00 cy		-	7,260	-	-	-	220.00 /cy	7,260	336.26 /cy	11,097
					Placing concrete, concrete pump, for structural wall to 12" thick	60.00 cy	72	6,529	-	-	-	-	108.81 /cy	6,529	158.43 /cy	9,506
					Placing concrete, concrete pump, for structural wall >24" thick	1,022.00 cy	1,128	101,971	-	-	-	-	99.78 /cy	101,971	145.27 /cy	148,466
					Patch & plug tieholes	21,584.30 sf	324	29,265	432	-	-	-	1.38 /sf	29,696	2.00 /sf	43,268
					Stone rub	21,584.30 sf	1,079	97,549	648	-	-	-	4.55 /sf	98,197	6.63 /sf	143,017
					Curing, membrane spray	21,584.30 sf	43	3,902	863	-	-	-	0.22 /sf	4,765	0.32 /sf	7,001
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	94.75 ton	1,516	177,375	142,125	-	-	-	3,372.03 /ton	319,500	5,018.28 /ton	475,482
					Reinforcing in place, unloading & sorting, add to above - slabs	94.75 ton	53	6,325	-	-	2,197	-	89.94 /ton	8,522	130.95 /ton	12,408
					Reinforcing steel, crane cost for handling, average, add	94.75 ton	58	6,875	-	-	2,388	-	97.76 /ton	9,263	142.34 /ton	13,487
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**1,082.00 CY**	**7,943**	**827,330**	**418,506**	**27,050**	**4,585**		**1,180.66 /CY**	**1,277,472**	**1,747.03 /CY**	**1,890,283**
					MOA-03.25.013 1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**1,082.00 CY**	**7,943**	**827,330**	**418,506**	**27,050**	**4,585**		**1,180.66 /CY**	**1,277,472**	**1,747.03 /CY**	**1,890,283**
			MOA-03.25.014		**1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	60.00 cy		-	-	1,500	-	-	25.00 /cy	1,500	36.40 /cy	2,184
					Forms in place, structural walls, > 16' high, hand set	3,202.50 sf	544	58,984	4,323	-	-	-	19.77 /sf	63,307	28.88 /sf	92,485
					Concrete, ready mix, 4500 psi	60.00 CY		-	13,200	-	-	-	220.00 /CY	13,200	336.26 /CY	20,176
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.27 /cy	673
					Placing concrete, concrete pump, for structural wall to 12" thick	60.00 cy	72	6,529	-	-	-	-	108.81 /cy	6,529	158.43 /cy	9,506
					Patch & plug tieholes	3,202.50 sf	48	4,342	64	-	-	-	1.38 /sf	4,406	2.00 /sf	6,420
					Stone rub	3,202.50 sf	160	14,474	96	-	-	-	4.55 /sf	14,570	6.63 /sf	21,220
					Curing, membrane spray	3,202.50 sf	6	579	128	-	-	-	0.22 /sf	707	0.32 /sf	1,039
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.50 ton	88	10,296	8,250	-	-	-	3,372.03 /ton	18,546	5,018.27 /ton	27,601
					Reinforcing in place, unloading & sorting, add to above - slabs	5.50 ton	3	367	-	-	128	-	89.94 /ton	495	130.95 /ton	720
					Reinforcing steel, crane cost for handling, average, add	5.50 ton	3	399	-	-	139	-	97.76 /ton	538	142.34 /ton	783
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**60.00 CY**	**926**	**95,969**	**26,502**	**1,500**	**266**		**2,070.62 /CY**	**124,237**	**3,046.75 /CY**	**182,805**
					MOA-03.25.014 1'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**60.00 CY**	**926**	**95,969**	**26,502**	**1,500**	**266**		**2,070.62 /CY**	**124,237**	**3,046.75 /CY**	**182,805**
			MOA-03.25.015		**2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	24.00 cy		-	-	600	-	-	25.00 /cy	600	36.40 /cy	874
					Forms in place, structural walls, > 16' high, hand set	630.00 sf	107	11,603	851	-	-	-	19.77 /sf	12,454	28.88 /sf	18,194
					Concrete, ready mix, 4500 psi	24.00 CY		-	5,280	-	-	-	220.00 /CY	5,280	336.26 /CY	8,070
					Add for concrete waste, 4500 psi	1.00 cy		-	220	-	-	-	220.00 /cy	220	336.26 /cy	336
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	24.00 cy	26	2,395	-	-	-	-	99.78 /cy	2,395	145.27 /cy	3,486
					Patch & plug tieholes	630.00 sf	9	854	13	-	-	-	1.38 /sf	867	2.00 /sf	1,263
					Stone rub	630.00 sf	32	2,847	19	-	-	-	4.55 /sf	2,866	6.63 /sf	4,174
					Curing, membrane spray	630.00 sf	1	114	25	-	-	-	0.22 /sf	139	0.32 /sf	204
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.25 ton	36	4,212	3,375	-	-	-	3,372.03 /ton	7,587	5,018.28 /ton	11,291
					Reinforcing in place, unloading & sorting, add to above - slabs	2.25 ton	1	150	-	-	52	-	89.94 /ton	202	130.96 /ton	295
					Reinforcing steel, crane cost for handling, average, add	2.25 ton	1	163	-	-	57	-	97.76 /ton	220	142.33 /ton	320
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**24.00 CY**	**214**	**22,339**	**9,782**	**600**	**109**		**1,367.91 /CY**	**32,830**	**2,021.17 /CY**	**48,508**
					MOA-03.25.015 2'-0" thick CIP Interior Wall - 30'-4" High - Above Grade	**24.00 CY**	**214**	**22,339**	**9,782**	**600**	**109**		**1,367.91 /CY**	**32,830**	**2,021.17 /CY**	**48,508**
			MOA-03.25.016		**3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade**											
				03.10.00.36	**Concrete, Cast-in-Place, Grade Walls, 36" Wide**											
					Concrete pumping, subcontract, all inclusive price	263.00 cy		-	-	6,575	-	-	25.00 /cy	6,575	36.40 /cy	9,573
					Forms in place, structural walls, > 16' high, hand set	4,725.00 sf	803	87,025	6,379	-	-	-	19.77 /sf	93,404	28.88 /sf	136,454
					Concrete, ready mix, 4500 psi	263.00 CY		-	57,860	-	-	-	220.00 /CY	57,860	336.26 /CY	88,436
					Add for concrete waste, 4500 psi	8.00 cy		-	1,760	-	-	-	220.00 /cy	1,760	336.26 /cy	2,690
					Placing concrete, concrete pump, for structural wall >24" thick	263.00 cy	290	26,241	-	-	-	-	99.78 /cy	26,241	145.27 /cy	38,206
					Patch & plug tieholes	4,725.00 sf	71	6,406	95	-	-	-	1.38 /sf	6,501	2.00 /sf	9,472
					Stone rub	4,725.00 sf	236	21,354	142	-	-	-	4.55 /sf	21,496	6.63 /sf	31,308
					Curing, membrane spray	4,725.00 sf	9	854	189	-	-	-	0.22 /sf	1,043	0.32 /sf	1,533
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	23.10 ton	370	43,244	34,650	-	-	-	3,372.03 /ton	77,894	5,018.28 /ton	115,922
					Reinforcing in place, unloading & sorting, add to above - slabs	23.10 ton	13	1,542	-	-	536	-	89.94 /ton	2,078	130.95 /ton	3,025
					Reinforcing steel, crane cost for handling, average, add	23.10 ton	14	1,676	-	-	582	-	97.76 /ton	2,258	142.34 /ton	3,288
					03.10.00.36 Concrete, Cast-in-Place, Grade Walls, 36" Wide	**263.00 CY**	**1,807**	**188,343**	**101,074**	**6,575**	**1,118**		**1,129.70 /CY**	**297,110**	**1,672.65 /CY**	**439,907**
					MOA-03.25.016 3'-0" thick CIP Interior Wall - 26'-3" High - Above Grade	**263.00 CY**	**1,807**	**188,343**	**101,074**	**6,575**	**1,118**		**1,129.70 /CY**	**297,110**	**1,672.65 /CY**	**439,907**
					03.20 Cast-In-Place Concrete, Straight Walls	**3,145.00 CY**	**23,253**	**2,422,573**	**1,217,605**	**78,625**	**13,361**		**1,186.70 /CY**	**3,732,164**	**1,755.85 /CY**	**5,522,138**
		03.23			**Cast-In-Place Concrete, Columns**											
			MOA-03.27.001		**2'-6" x 2'-6" CIP Column - CC01; 22'-3" high**											
				03.10.09.30	**Cast-In-Place Concrete, Columns, 30"**											
					Concrete pumping, subcontract, all inclusive price	67.00 cy		-	-	1,675	-	-	25.00 /cy	1,675	36.40 /cy	2,439
					Forms in place, columns, rectangular, over 18" sq.	2,892.50 sf	579	62,675	4,339	-	-	-	23.17 /sf	67,014	33.84 /sf	97,884
					Forms in place, column capitals, rectangular	117.00 sf	23	2,535	176	-	-	-	23.17 /sf	2,711	33.84 /sf	3,959
					Concrete, ready mix, 4500 psi	67.00 CY		-	14,740	-	-	-	220.00 /CY	14,740	336.26 /CY	22,529
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump	67.00 cy	98	8,828	-	-	-	-	131.77 /cy	8,828	191.85 /cy	12,854
					Stone rub	2,892.50 sf	145	13,073	87	-	-	-	4.55 /sf	13,159	6.63 /sf	19,166
					Curing, membrane spray	2,892.50 sf	6	523	116	-	-	-	0.22 /sf	639	0.32 /sf	938
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	17.00 ton	272	31,825	25,500	-	-	-	3,372.03 /ton	57,325	5,018.28 /ton	85,311
					Reinforcing in place, unloading & sorting, add to above - slabs	17.00 ton	10	1,135	-	-	394	-	89.94 /ton	1,529	130.95 /ton	2,226
					Reinforcing steel, crane cost for handling, average, add	17.00 ton	10	1,234	-	-	428	-	97.76 /ton	1,662	142.34 /ton	2,420
					03.10.09.30 Cast-In-Place Concrete, Columns, 30"	**67.00 CY**	**1,142**	**121,827**	**45,397**	**1,675**	**823**		**2,533.16 /CY**	**169,722**	**3,737.29 /CY**	**250,398**
					MOA-03.27.001 2'-6" x 2'-6" CIP Column - CC01; 22'-3" high	**67.00 CY**	**1,142**	**121,827**	**45,397**	**1,675**	**823**		**2,533.16 /CY**	**169,722**	**3,737.29 /CY**	**250,398**
			MOA-03.27.002		**3'-0" x 3'-0" CIP Column; 30'-4" high**											
				03.10.09.36	**Cast-In-Place Concrete, Columns, 36"**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.09.36	**Cast-In-Place Concrete, Columns, 36"**											
					Concrete pumping, subcontract, all inclusive price	41.00 cy		-	-	1,025	-	-	25.00 /cy	1,025	36.40 /cy	1,492
					Forms in place, columns, rectangular, over 18" sq.	1,455.84 sf	291	31,545	2,184	-	-	-	23.17 /sf	33,729	33.84 /sf	49,267
					Forms in place, column capitals, rectangular	42.00 sf	8	910	63	-	-	-	23.17 /sf	973	33.84 /sf	1,421
					Concrete, ready mix, 4500 psi	41.00 CY		-	9,020	-	-	-	220.00 /CY	9,020	336.26 /CY	13,787
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump	41.00 cy	60	5,403	-	-	-	-	131.77 /cy	5,403	191.85 /cy	7,866
					Stone rub	1,455.84 sf	73	6,580	44	-	-	-	4.55 /sf	6,623	6.63 /sf	9,646
					Curing, membrane spray	1,455.84 sf	3	263	58	-	-	-	0.22 /sf	321	0.32 /sf	472
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.00 ton	176	20,592	16,500	-	-	-	3,372.03 /ton	37,092	5,018.28 /ton	55,201
					Reinforcing in place, unloading & sorting, add to above - slabs	11.00 ton	6	734	-	-	255	-	89.94 /ton	989	130.95 /ton	1,440
					Reinforcing steel, crane cost for handling, average, add	11.00 ton	7	798	-	-	277	-	97.76 /ton	1,075	142.34 /ton	1,566
					03.10.09.36 Cast-In-Place Concrete, Columns, 36"	**41.00 CY**	**624**	**66,826**	**28,309**	**1,025**	**532**		**2,358.33 /CY**	**96,692**	**3,483.68 /CY**	**142,831**
					MOA-03.27.002 3'-0" x 3'-0" CIP Column; 30'-4" high	**41.00 CY**	**624**	**66,826**	**28,309**	**1,025**	**532**		**2,358.33 /CY**	**96,692**	**3,483.68 /CY**	**142,831**
					03.23 Cast-In-Place Concrete, Columns	**108.00 CY**	**1,766**	**188,653**	**73,705**	**2,700**	**1,355**		**2,466.79 /CY**	**266,413**	**3,641.01 /CY**	**393,229**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.002		**4'-0" thick CIP Concrete Roof Deck**											
				03.10.10.48	**Cast-In-Place Concrete, Elevated Deck, 48"**											
					Concrete pumping, subcontract, all inclusive price	1,090.00 cy		-	-	27,250	-	-	25.00 /cy	27,250	36.40 /cy	39,675
					Forms in place, elevated slab, soffit	7,356.00 sf	1,471	159,391	9,195	-	-	-	22.92 /sf	168,586	33.46 /sf	246,121
					Forms in place, elevated slab, edge form	1,676.00 sf	419	45,395	2,095	-	-	-	28.34 /sf	47,490	41.35 /sf	69,295
					Slab shoring	235,392.00 cf	1,648	178,518	11,770	-	-	-	0.81 /cf	190,288	1.18 /cf	277,904
					Expansion Board, asphalt impregnated fiber, 1"	1,680.00 sf	50	5,460	1,260	-	-	-	4.00 /sf	6,720	5.88 /sf	9,876
					Waterstop, hydro-flex	419.00 lf	2	227	1,676	-	-	-	4.54 /lf	1,903	6.90 /lf	2,892
					Concrete, ready mix, 4500 psi	1,090.00 CY		-	239,800	-	-	-	220.00 /CY	239,800	336.26 /CY	366,523
					Add for concrete waste, 4500 psi	33.00 cy		-	7,260	-	-	-	220.00 /cy	7,260	336.26 /cy	11,097
					Placing concrete, concrete pump, for elevated slab over 12" thick	1,090.00 cy	1,069	96,639	-	-	-	-	88.66 /cy	96,639	129.08 /cy	140,703
					Construction Joint Prep.	1,680.00 sf	134	12,148	84	-	-	-	7.28 /sf	12,232	10.60 /sf	17,816
					Curing, membrane spray	7,356.00 sf	15	1,330	294	-	-	-	0.22 /sf	1,624	0.32 /sf	2,386
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	95.50 ton	1,528	178,779	143,250	-	-	-	3,372.03 /ton	322,029	5,018.28 /ton	479,245
					Reinforcing in place, unloading & sorting, add to above - slabs	95.50 ton	53	6,375	-	-	2,214	-	89.94 /ton	8,590	130.95 /ton	12,506
					Reinforcing steel, crane cost for handling, average, add	95.50 ton	58	6,930	-	-	2,407	-	97.76 /ton	9,337	142.34 /ton	13,594
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	7,356.00 sf	103	9,391	-	-	375	-	1.33 /sf	9,766	1.93 /sf	14,218
					03.10.10.48 Cast-In-Place Concrete, Elevated Deck, 48"	**1,090.00 CY**	**6,551**	**700,584**	**416,684**	**27,250**	**4,996**		**1,054.60 /CY**	**1,149,514**	**1,563.16 /CY**	**1,703,850**
					MOA-03.30.002 4'-0" thick CIP Concrete Roof Deck	**1,090.00 CY**	**6,551**	**700,584**	**416,684**	**27,250**	**4,996**		**1,054.60 /CY**	**1,149,514**	**1,563.16 /CY**	**1,703,850**
			MOA-03.30.003		**2'-0" thick CIP Upper Floor**											
				03.10.10.24	**Cast-In-Place Concrete, Elevated Decks, 24" thick**											
					Concrete pumping, subcontract, all inclusive price	493.00 cy		-	-	12,325	-	-	25.00 /cy	12,325	36.40 /cy	17,945
					Forms in place, elevated slab, soffit	6,644.00 sf	1,329	143,964	8,305	-	-	-	22.92 /sf	152,269	33.46 /sf	222,298
					Forms in place, elevated slab, edge form	794.00 sf	199	21,506	993	-	-	-	28.34 /sf	22,498	41.35 /sf	32,828
					Slab shoring	225,896.00 cf	1,581	171,317	11,295	-	-	-	0.81 /cf	182,611	1.18 /cf	266,693
					Expansion joint material, closed cell neoprene, 1"	794.00 sf	24	2,581	4,764	-	-	-	9.25 /sf	7,345	13.90 /sf	11,039
					Concrete, ready mix, 4500 psi	493.00 CY		-	108,460	-	-	-	220.00 /CY	108,460	336.26 /CY	165,776
					Add for concrete waste, 4500 psi	15.00 cy		-	3,300	-	-	-	220.00 /cy	3,300	336.26 /cy	5,044
					Placing concrete, concrete pump, for elevated slab over 12" thick	493.00 cy	484	43,709	-	-	-	-	88.66 /cy	43,709	129.09 /cy	63,639
					Construction Joint Prep.	794.00 sf	64	5,742	40	-	-	-	7.28 /sf	5,781	10.60 /sf	8,420
					Curing, membrane spray	6,644.00 sf	13	1,201	266	-	-	-	0.22 /sf	1,467	0.32 /sf	2,155
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	43.25 ton	692	80,965	64,875	-	-	-	3,372.03 /ton	145,840	5,018.28 /ton	217,040
					Reinforcing in place, unloading & sorting, add to above - slabs	43.25 ton	24	2,887	-	-	1,003	-	89.94 /ton	3,890	130.95 /ton	5,664
					Reinforcing steel, crane cost for handling, average, add	43.25 ton	26	3,138	-	-	1,090	-	97.76 /ton	4,228	142.34 /ton	6,156
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	6,644.00 sf	93	8,482	-	-	338	-	1.33 /sf	8,820	1.93 /sf	12,842
					03.10.10.24 Cast-In-Place Concrete, Elevated Decks, 24" thick	**493.00 CY**	**4,528**	**485,491**	**202,297**	**12,325**	**2,431**		**1,425.04 /CY**	**702,544**	**2,104.54 /CY**	**1,037,539**
					MOA-03.30.003 2'-0" thick CIP Upper Floor	**493.00 CY**	**4,528**	**485,491**	**202,297**	**12,325**	**2,431**		**1,425.04 /CY**	**702,544**	**2,104.54 /CY**	**1,037,539**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**1,583.00 CY**	**11,080**	**1,186,075**	**618,981**	**39,575**	**7,427**		**1,169.97 /CY**	**1,852,058**	**1,731.77 /CY**	**2,741,389**
		03.25			**Cast-In-Place Concrete, Elevated Beams**											
			MOA-03.26.001		**36" x 24" CIP Beam - CB02**											
				03.10.11.36	**Cast-In-Place Concrete, Elevated Beams, 36"**											
					Concrete pumping, subcontract, all inclusive price	24.00 cy		-	-	600	-	-	25.00 /cy	600	36.40 /cy	874
					Forms in place, monolithic beam, bottom	216.00 sf	43	4,680	324	-	-	-	23.17 /sf	5,004	33.84 /sf	7,310
					Forms in place, monolithic beam, sides	648.00 sf	97	10,531	810	-	-	-	17.50 /sf	11,341	25.57 /sf	16,570
					Concrete, ready mix, 4500 psi	24.00 CY		-	5,280	-	-	-	220.00 /CY	5,280	336.26 /CY	8,070
					Add for concrete waste, 4500 psi	1.20 cy		-	264	-	-	-	220.00 /cy	264	336.26 /cy	404
					Placing concrete, concrete pump, for elevated slab to 12" thick	24.00 cy	25	2,237	-	-	-	-	93.19 /cy	2,237	135.68 /cy	3,256
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	48	5,616	4,500	-	-	-	3,372.03 /ton	10,116	5,018.28 /ton	15,055
					Reinforcing in place, unloading & sorting, add to above - slabs	3.00 ton	2	200	-	-	70	-	89.94 /ton	270	130.95 /ton	393
					Reinforcing steel, crane cost for handling, average, add	3.00 ton	2	218	-	-	76	-	97.76 /ton	293	142.34 /ton	427
					03.10.11.36 Cast-In-Place Concrete, Elevated Beams, 36"	**24.00 CY**	**217**	**23,482**	**11,178**	**600**	**145**		**1,475.20 /CY**	**35,405**	**2,181.59 /CY**	**52,358**
					MOA-03.26.001 36" x 24" CIP Beam - CB02	**24.00 CY**	**217**	**23,482**	**11,178**	**600**	**145**		**1,475.20 /CY**	**35,405**	**2,181.59 /CY**	**52,358**
			MOA-03.26.002		**48" x 36" CIP Beam - CB03**											
				03.10.11.48	**Cast-In-Place Concrete, Elevated Deck, 48"**											
					Concrete pumping, subcontract, all inclusive price	48.00 cy		-	-	1,200	-	-	25.00 /cy	1,200	36.40 /cy	1,747
					Forms in place, monolithic beam, bottom	324.00 sf	65	7,021	486	-	-	-	23.17 /sf	7,507	33.84 /sf	10,964
					Forms in place, monolithic beam, sides	864.00 sf	130	14,041	1,080	-	-	-	17.50 /sf	15,121	25.57 /sf	22,094
					Concrete, ready mix, 4500 psi	48.00 CY		-	10,560	-	-	-	220.00 /CY	10,560	336.26 /CY	16,140
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump, for elevated slab to 12" thick	48.00 cy	49	4,473	-	-	-	-	93.19 /cy	4,473	135.68 /cy	6,512
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	6.00 ton	96	11,232	9,000	-	-	-	3,372.03 /ton	20,232	5,018.27 /ton	30,110
					Reinforcing in place, unloading & sorting, add to above - slabs	6.00 ton	3	401	-	-	139	-	89.94 /ton	540	130.96 /ton	786
					Reinforcing steel, crane cost for handling, average, add	6.00 ton	4	435	-	-	151	-	97.76 /ton	587	142.34 /ton	854

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.11.48 Cast-In-Place Concrete, Elevated Deck, 48"	**48.00 CY**	**347**	**37,603**	**21,566**	**1,200**	**290**		**1,263.73 /CY**	**60,659**	**1,872.50 /CY**	**89,880**
					MOA-03.26.002 48" x 36" CIP Beam - CB03	**48.00 CY**	**347**	**37,603**	**21,566**	**1,200**	**290**		**1,263.73 /CY**	**60,659**	**1,872.50 /CY**	**89,880**
			MOA-03.26.003		**36" x 24" CIP Beam - CB04**											
				03.10.11.36	**Cast-In-Place Concrete, Elevated Beams, 36"**											
					Concrete pumping, subcontract, all inclusive price	43.00 cy		-	-	1,075	-	-	25.00 /cy	1,075	36.40 /cy	1,565
					Forms in place, monolithic beam, bottom	384.00 sf	77	8,321	576	-	-	-	23.17 /sf	8,897	33.84 /sf	12,995
					Forms in place, monolithic beam, sides	1,152.00 sf	173	18,721	1,440	-	-	-	17.50 /sf	20,161	25.57 /sf	29,458
					Concrete, ready mix, 4500 psi	43.00 CY		-	9,460	-	-	-	220.00 /CY	9,460	336.26 /CY	14,459
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump, for elevated slab to 12" thick	43.00 cy	44	4,007	-	-	-	-	93.19 /cy	4,007	135.68 /cy	5,834
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.50 ton	88	10,296	8,250	-	-	-	3,372.03 /ton	18,546	5,018.28 /ton	27,601
					Reinforcing in place, unloading & sorting, add to above - slabs	5.50 ton	3	367	-	-	128	-	89.94 /ton	495	130.95 /ton	720
					Reinforcing steel, crane cost for handling, average, add	5.50 ton	3	399	-	-	139	-	97.76 /ton	538	142.34 /ton	783
					03.10.11.36 Cast-In-Place Concrete, Elevated Beams, 36"	**43.00 CY**	**388**	**42,111**	**20,166**	**1,075**	**266**		**1,479.50 /CY**	**63,619**	**2,188.09 /CY**	**94,088**
					MOA-03.26.003 36" x 24" CIP Beam - CB04	**43.00 CY**	**388**	**42,111**	**20,166**	**1,075**	**266**		**1,479.50 /CY**	**63,619**	**2,188.09 /CY**	**94,088**
					03.25 Cast-In-Place Concrete, Elevated Beams	**115.00 CY**	**952**	**103,196**	**52,910**	**2,875**	**702**		**1,388.54 /CY**	**159,682**	**2,055.01 /CY**	**236,326**
		03.35			**Concrete Miscellaneous**											
			03.00.200		**Lean Concrete Fill**											
				03.10.16.00	**Cast-In-Place Concrete, Fill/Topping/Grouting**											
					Lean Concrete,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	1,400.00 CY		-	210,000	-	-	-	150.00 /CY	210,000	229.27 /CY	320,976
					Lean concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	1,400.00 cy	1,461	139,880	-	-	18,290	-	112.98 /cy	158,170	164.49 /cy	230,288
					03.10.16.00 Cast-In-Place Concrete, Fill/Topping/Grouting	**1,400.00 CY**	**1,461**	**139,880**	**210,000**		**18,290**		**262.98 /CY**	**368,170**	**393.76 /CY**	**551,264**
					03.00.200 Lean Concrete Fill	**1,400.00 CY**	**1,461**	**139,880**	**210,000**		**18,290**		**262.98 /CY**	**368,170**	**393.76 /CY**	**551,264**
					03.35 Concrete Miscellaneous	**1,400.00 CY**	**1,461**	**139,880**	**210,000**		**18,290**		**262.98 /CY**	**368,170**	**393.76 /CY**	**551,264**
					03.0 Concrete Work	**7,225.00 CY**	**41,698**	**4,371,304**	**2,512,405**	**146,642**	**44,837**		**979.26 /CY**	**7,075,188**	**1,450.98 /CY**	**10,483,303**
	03.2				**Precast Concrete**											
		03.40			**Precast Concrete**											
			03.54.000		**Precast Concrete Removable Panels**											
				03.54.03.00	**Concrete Miscellaneous, Architectural Precast**											
					Precast concrete removable slab, 18" thick	1,762.00 SF	240	26,426	56,384	-	10,968	-	53.22 /SF	93,779	69.17 /SF	121,869
					Miscellaneous Items and Consumables Allowance	1.00 ls		3,000	5,000	-	2,000	-	10,000.00 /ls	10,000	12,922.05 /ls	12,922
					03.54.03.00 Concrete Miscellaneous, Architectural Precast	**1,762.00 SF**	**240**	**29,426**	**61,384**		**12,968**		**58.90 /SF**	**103,779**	**76.50 /SF**	**134,791**
					03.54.000 Precast Concrete Removable Panels	**1,762.00 SF**	**240**	**29,426**	**61,384**		**12,968**		**58.90 /SF**	**103,779**	**76.50 /SF**	**134,791**
					03.40 Precast Concrete	***1.00* LS**	**240**	**29,426**	**61,384**		**12,968**		**103,778.52 /LS**	**103,779**	**134,791.47 /LS**	**134,791**
					03.2 Precast Concrete	**1,762.00 SF**	**240**	**29,426**	**61,384**		**12,968**		**58.90 /SF**	**103,779**	**76.50 /SF**	**134,791**
	05.0				**Metals**											
		05.00			**Metals**											
			05.50.00.004		**Aluminum Grating**											
				05.50.05.00	**Metals, Gratings**											
					Grating frame, aluminum, 1" to 1-1/2" D, field fabricated	626.00 lf	72	8,873	3,161	-	-	-	19.22 /lf	12,034	27.39 /lf	17,148
					Floor grating, aluminum, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	630.00 SF	20	2,519	38,115	-	95	-	64.65 /SF	40,728	95.28 /SF	60,026
					Floor grating, aluminum, field fabricated from panels, for curved cuts, add	48.00 lf		-	271	-	-	-	5.65 /lf	271	8.35 /lf	401
					05.50.05.00 Metals, Gratings	**630.00 SF**	**92**	**11,391**	**41,548**		**95**		**84.18 /SF**	**53,034**	**123.13 /SF**	**77,575**
					05.50.00.004 Aluminum Grating	**630.00 SF**	**92**	**11,391**	**41,548**		**95**		**84.18 /SF**	**53,034**	**123.13 /SF**	**77,575**
			MOA-05.10.002		**Metal Stairs**											
				05.50.02.20	**Metal Stairs, Metal Grating Stairs**											
					Stair, shop fabricated, steel, 4'-0" W, incl pipe railing, stringers, grating treads w/ safety nosing, per riser	76.00 RISR	320	39,982	34,200	-	1,501	-	995.83 /RISR	75,683	1,432.71 /RISR	108,886
					Landing, Metal Grating	80.00 sf	64	7,996	6,800	-	300	-	188.71 /sf	15,097	271.48 /sf	21,718
					05.50.02.20 Metal Stairs, Metal Grating Stairs	**76.00 RISR**	**384**	**47,979**	**41,000**		**1,801**		**1,194.46 /RISR**	**90,779**	**1,718.47 /RISR**	**130,604**
					MOA-05.10.002 Metal Stairs	**76.00 RISR**	**384**	**47,979**	**41,000**		**1,801**		**1,194.46 /RISR**	**90,779**	**1,718.47 /RISR**	**130,604**
					05.00 Metals	***1.00* LS**	**476**	**59,370**	**82,548**		**1,895**		**143,812.81 /LS**	**143,813**	**208,178.99 /LS**	**208,179**
		05.10			**Structural Steel**											
			MOA-05.10.001		**Steel Roof Joist**											
				05.20.01.00	**Metals, Steel Joists**											
					Open web joists, K series, to 30' span, average cost	2.00 TN		-	-	27,000	-	-	13,500.00 /TN	27,000	16,955.39 /TN	33,911
					05.20.01.00 Metals, Steel Joists	**2.00 TN**				**27,000**			**13,500.00 /TN**	**27,000**	**16,955.39 /TN**	**33,911**
					MOA-05.10.001 Steel Roof Joist	**2.00 TN**				**27,000**			**13,500.00 /TN**	**27,000**	**16,955.39 /TN**	**33,911**
					05.10 Structural Steel	***1.00* LS**				**27,000**			**27,000.00 /LS**	**27,000**	**33,910.78 /LS**	**33,911**
					05.0 Metals	***1.00* LS**	**476**	**59,370**	**82,548**	**27,000**	**1,895**		**170,812.81 /LS**	**170,813**	**242,089.77 /LS**	**242,090**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	**Thermal & Moisture Protection, Membrane Roofing**											
					Framing, miscellaneous wood blocking/backing for sheet metal	0.50 mbf	16	1,743	850	-	-	-	5,186.34 /mbf	2,593	7,415.02 /mbf	3,708
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	1,860.00 bf	23	2,413	3,720	-	-	-	3.30 /bf	6,133	4.78 /bf	8,893
					Cants, mineral or fiber, trapezoidal, 1" x 4" x 48"	72.00 lf	2	183	27	-	-	-	2.92 /lf	210	4.13 /lf	297
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	28.60 SQ	46	4,748	4,033	-	221	-	314.73 /SQ	9,001	452.72 /SQ	12,948
					Coping, galvanized steel, 24 gauge, 16" wall	244.00 lf	33	3,615	991	-	-	-	18.88 /lf	4,606	26.83 /lf	6,548
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	40.00 lf	2	269	186	-	-	-	11.38 /lf	455	16.34 /lf	654
					Reglet, galvanized steel, in concrete parapet, 24 gauge	244.00 lf	9	945	686	-	-	-	6.68 /lf	1,631	9.60 /lf	2,343
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	244.00 lf	13	1,586	476	-	-	-	8.45 /lf	2,062	12.02 /lf	2,933
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	**28.60 SQ**	**144**	**15,502**	**10,968**		**221**		**933.28 /SQ**	**26,692**	**1,339.95 /SQ**	**38,323**
					07.00.000 TPO Membrane Roofing	**28.60 SQ**	**144**	**15,502**	**10,968**		**221**		**933.28 /SQ**	**26,692**	**1,339.95 /SQ**	**38,323**
			07.00.002		**Transluscent Panel Roofing**											
				07.00.99.00	**Thermal & Moisture Protection, Other**											
					Transluscent Roof Panels	744.00 SF	256	27,246	33,480	-	-	-	81.62 /SF	60,726	118.02 /SF	87,806

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					07.00.99.00 Thermal & Moisture Protection, Other	**744.00 SF**	**256**	**27,246**	**33,480**				**81.62 /SF**	**60,726**	**118.02 /SF**	**87,806**
					07.00.002 Transluscent Panel Roofing	**744.00 SF**	**256**	**27,246**	**33,480**				**81.62 /SF**	**60,726**	**118.02 /SF**	**87,806**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	1.86 ton	11	1,426	19,530	-	414	-	11,488.99 /ton	21,370	16,914.25 /ton	31,461
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	11.16 ton	81	10,108	117,180	-	2,935	-	11,668.80 /ton	130,224	17,167.06 /ton	191,584
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	1,860.00 SF	14	1,729	6,119	-	65	-	4.25 /SF	7,914	6.22 /SF	11,570
					Coping, galvanized steel, 24 gauge, 16" wall	156.00 lf	21	2,311	633	-	-	-	18.88 /lf	2,945	26.83 /lf	4,186
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	40.00 lf	2	269	186	-	-	-	11.38 /lf	455	16.34 /lf	654
					Paints & coatings, miscellaneous interior, trusses & wood frames, primer coat, oil base, spray	1,860.00 sf	12	1,127	186	-	-	-	0.71 /sf	1,313	1.00 /sf	1,860
					Paints & coatings, miscellaneous interior, trusses & wood frames, paint 2 coats, oil base, spray	1,860.00 sf	25	2,254	725	-	-	-	1.60 /sf	2,979	2.28 /sf	4,242
					Drains, scupper flr, oblique stn, C.I., 8"x12" top, 5" & 6" pipe size	2.00 ea	2	256	1,880	-	-	-	1,067.97 /ea	2,136	1,569.67 /ea	3,139
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**1,860.00 SF**	**169**	**19,481**	**146,441**		**3,414**		**91.04 /SF**	**169,336**	**133.71 /SF**	**248,695**
					MOA-07.00.001 Metal Roof	**1,860.00 SF**	**169**	**19,481**	**146,441**		**3,414**		**91.04 /SF**	**169,336**	**133.71 /SF**	**248,695**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**569**	**62,229**	**190,889**		**3,635**		**256,753.68 /LS**	**256,754**	**374,823.51 /LS**	**374,824**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**569**	**62,229**	**190,889**		**3,635**		**256,753.68 /LS**	**256,754**	**374,823.51 /LS**	**374,824**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, metal frame, spring type, bronze, 3' x 7' door	4.00 opng	11	1,162	148	-	-	-	327.57 /opng	1,310	463.23 /opng	1,853
					Doors & Frames, steel, entrance, narrow stile, clear finish, 3'-0" x 7'-0" opening, incl. standard hardware, excl. glass	4.00 EA	32	3,969	4,800	-	-	-	2,192.15 /EA	8,769	3,169.06 /EA	12,676
					Doors, commercial, steel, flush, half glass, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	4.00 ea	4	387	3,880	-	-	-	1,066.84 /ea	4,267	1,570.26 /ea	6,281
					08.10.01.10 Doors and Frames, Hollow Metal	**4.00 EA**	**46**	**5,518**	**8,828**				**3,586.55 /EA**	**14,346**	**5,202.54 /EA**	**20,810**
				08.30.01.10	**Specialty Doors and Frames, Access Doors**											
					6' x 8' Galvanized Steel Sidewalk Door	1.00 EA	32	3,969	24,000	-	280	-	28,248.58 /EA	28,249	41,456.23 /EA	41,456
					Bilco Hatch 60" x 60"	1.00 EA	16	1,984	11,400	-	280	-	13,664.29 /EA	13,664	20,037.87 /EA	20,038
					Bilco Hatch 48" x 72"	1.00 EA	16	1,984	11,000	-	280	-	13,264.29 /EA	13,264	19,446.50 /EA	19,447
					08.30.01.10 Specialty Doors and Frames, Access Doors	**3.00 EA**	**64**	**7,937**	**46,400**		**840**		**18,392.39 /EA**	**55,177**	**26,980.20 /EA**	**80,941**
					MOA-08.10.001 Exterior Doors	**7.00 EA**	**110**	**13,455**	**55,228**		**840**		**9,931.91 /EA**	**69,523**	**14,535.82 /EA**	**101,751**
					08.10 Doors and Frames - Exterior Doors	**7.00 EA**	**110**	**13,455**	**55,228**		**840**		**9,931.91 /EA**	**69,523**	**14,535.82 /EA**	**101,751**
					08.0 Openings	**7.00 EA**	**110**	**13,455**	**55,228**		**840**		**9,931.91 /EA**	**69,523**	**14,535.82 /EA**	**101,751**
	21.0				**Fire Suppression**											
		21.00			**Fire Sprinkler**											
			21.00.500		**Funk PGP Generating Plant, Fire Suppression**											
				21.00.10.10	**Water-Based Fire-Suppression Systems**											
					6" Fire Protection Piping	400.00 lf	240	27,153	26,000	-	1,501	-	136.64 /lf	54,654	210.48 /lf	84,191
					6" Fire Protection Wet Standpipe Down	4.00 ea	48	5,431	11,200	-	300	-	4,232.70 /ea	16,931	6,577.26 /ea	26,309
					Fittings and Valving Allowance	1.00 ls		5,500	7,500	-	2,000	-	15,000.00 /ls	15,000	23,133.07 /ls	23,133
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	5,000	-	1,000	-	10,000.00 /ls	10,000	15,422.06 /ls	15,422
					21.00.10.10 Water-Based Fire-Suppression Systems	***1.00* LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,055.60 /LS**	**149,056**
					21.00.500 Funk PGP Generating Plant, Fire Suppression	***1.00* LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,055.60 /LS**	**149,056**
					21.00 Fire Sprinkler	***1.00* LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,055.60 /LS**	**149,056**
					21.0 Fire Suppression	***1.00* LS**	**288**	**42,084**	**49,700**		**4,801**		**96,584.80 /LS**	**96,585**	**149,055.60 /LS**	**149,056**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.00.025		**Funks PGP Generating Plant, HVAC**											
				23.00.02.00	**Mechanical, HVAC**											
					Metal Ductwork, spiral preformed, steel, galvanized, straight lengths, 30" diameter	120.00 lf	64	7,724	7,800	-	560	-	134.03 /lf	16,084	173.05 /lf	20,766
					Metal Ductwork, spiral preformed, steel, galvanized, elbow, 45 Deg., 30" diameter	2.00 ea	8	965	600	-	-	-	782.73 /ea	1,565	1,004.82 /ea	2,010
					Metal Ductwork, spiral preformed, steel, galvanized, elbow, 90 Deg., 30" diameter	1.00 ea	4	483	350	-	-	-	832.73 /ea	833	1,071.26 /ea	1,071
					Metal Ductwork, spiral preformed, steel, galvanized, reducing coupling	2.00 ea	4	483	500	-	-	-	491.37 /ea	983	635.26 /ea	1,271
					Intake Plenum	1.00 ea	16	1,931	3,500	-	-	-	5,430.91 /ea	5,431	7,074.72 /ea	7,075
					Supply Fan, 7500 CFM	1.00 ea	32	3,742	15,000	-	280	-	19,021.95 /ea	19,022	24,978.21 /ea	24,978
					Exhaust Fan, 7500 CFM	1.00 ea	32	3,742	15,000	-	280	-	19,021.95 /ea	19,022	24,978.21 /ea	24,978
					Louver, aluminum, extruded, with screen, mill finish, fixed blade, continuous line, stormproof	1,482.00 SF	832	101,390	66,690	-	9,706	-	119.96 /SF	177,787	153.93 /SF	228,127
					Miscellaneous Items and Consumables Allowance	1.00 ls		5,000	7,000	-	2,000	-	14,000.00 /ls	14,000	18,090.88 /ls	18,091
					Evaporative cooler Allowance	4.00 ea	229	27,584	95,200	-	5,280	-	32,016.12 /ea	128,064	41,936.29 /ea	167,745
					23.00.02.00 Mechanical, HVAC	**1,482.00 SF**	**1,221**	**153,044**	**211,640**		**18,106**		**258.29 /SF**	**382,790**	**334.76 /SF**	**496,111**
					23.00.00.025 Funks PGP Generating Plant, HVAC	**1,482.00 SF**	**1,221**	**153,044**	**211,640**		**18,106**		**258.29 /SF**	**382,790**	**334.76 /SF**	**496,111**
					23.00 HVAC	***1.00* LS**	**1,221**	**153,044**	**211,640**		**18,106**		**382,790.48 /LS**	**382,790**	**496,111.41 /LS**	**496,111**
					23.0 HVAC	***1.00* LS**	**1,221**	**153,044**	**211,640**		**18,106**		**382,790.48 /LS**	**382,790**	**496,111.41 /LS**	**496,111**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.40.90		**I&C**											
				28.35.01.00	**Electronic Safety and Security**											
					I&C circuits	1.00 LS	400	41,727	25,000	-	-	-	66,726.80 /LS	66,727	105,636.39 /LS	105,636
					Master PLC	1.00 LS	80	8,345	***500***		-	-	8,845.36 /LS	8,845	13,799.23 /LS	13,799
					Generator Control Panel	1.00 LS	80	8,345	***500***		-	-	8,845.36 /LS	8,845	13,799.23 /LS	13,799
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**560**	**58,418**	**26,000**				**84,417.52 /LS**	**84,418**	**133,234.85 /LS**	**133,235**
					26.40.90 I&C	***1.00* LS**	**560**	**58,418**	**26,000**				**84,417.52 /LS**	**84,418**	**133,234.85 /LS**	**133,235**
					26.00 Electrical	***1.00* LS**	**560**	**58,418**	**26,000**				**84,417.52 /LS**	**84,418**	**133,234.85 /LS**	**133,235**
		26.15			**Process Electrical**											
			26.00.000		**Hydropower Generators**											
				26.00.99.00	**Electrical, Other**											
					Installation of Francis Turbines	2.00 EA	2,560	284,907	300,000	-	87,746	-	336,326.56 /EA	672,653	534,183.92 /EA	1,068,368
					26.00.99.00 Electrical, Other	***1.00* LS**	**2,560**	**284,907**	**300,000**		**87,746**		**672,653.12 /LS**	**672,653**	**1,068,367.84 /LS**	**1,068,368**
					26.00.000 Hydropower Generators	**2.00 EA**	**2,560**	**284,907**	**300,000**		**87,746**		**336,326.56 /EA**	**672,653**	**534,183.92 /EA**	**1,068,368**
			26.05.GRDG		**Facility Grounding**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent trencher chain boom gas oper walking 12 HP	2.00 day		-	-	-	314	-	156.95 /day	314	244.21 /day	488
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**					**314**		**313.90 /LS**	**314**	**488.41 /LS**	**488**
				26.15.11.00	Process Electrical, Grounding											
					Copper Bus Bar .25"x 3.0"	2.00 lf	1	52	106	-	-	-	78.98 /lf	158	126.73 /lf	253
					Copper Bus Bar Supports	2.00 E	2	209	97	-	-	-	152.62 /E	305	240.97 /E	482
					Grounding rod, copper clad, 15' long, 3/4" diameter	6.00 ea	12	1,252	330	-	-	-	263.63 /ea	1,582	414.19 /ea	2,485
					Ground wire, copper wire, bare stranded, 4/0	4.00 clf	11	1,171	1,680	-	-	-	712.82 /clf	2,851	1,139.57 /clf	4,558
					Water pipe ground clamps, heavy duty, bronze, 2-1/2" to 3" diameter	1.00 ea	1	139	61	-	-	-	199.59 /ea	200	314.95 /ea	315
					Exothermic weld, 4/0 wire to 4/0 wire	24.00 ea	27	2,861	227	-	-	-	128.67 /ea	3,088	200.89 /ea	4,821
					Exothermic weld, mold reusable for above	6.00 ea		-	846	-	-	-	141.00 /ea	846	229.61 /ea	1,378
					Protective boxes at grade level, round, concrete, 12" long, incl breather slots	2.00 ea	1	104	224	-	-	-	164.16 /ea	328	263.54 /ea	527
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**55**	**5,789**	**3,570**				**9,358.25 /LS**	**9,358**	**14,819.82 /LS**	**14,820**
					26.05.GRDG Facility Grounding	***1.00*** **LS**	**55**	**5,789**	**3,570**		**314**		**9,672.15 /LS**	**9,672**	**15,308.23 /LS**	**15,308**
			26.12.SEC		**Subfeed from Elec Building**											
				26.10.02.00	Site Electrical, Buried Conduit											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.00 ton	12	1,387	1,500	-	-	-	2,886.69 /ton	2,887	4,600.31 /ton	4,600
					Concrete (red) envelope/encasement, poured neat	15.00 CY	30	2,750	1,163	-	27	-	262.62 /CY	3,939	414.24 /CY	6,214
					End bulkheads, plywood, concrete envelope/encasement	24.00 sf	3	300	18	-	-	-	13.23 /sf	318	20.64 /sf	495
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	600.00 LF	60	6,259	2,232	-	-	-	14.15 /LF	8,491	22.29 /LF	13,373
					26.10.02.00 Site Electrical, Buried Conduit	**600.00 LF**	**105**	**10,696**	**4,912**		**27**		**26.06 /LF**	**15,635**	**41.14 /LF**	**24,683**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	20.00 clf	73	7,587	7,700	-	-	-	764.33 /clf	15,287	1,217.18 /clf	24,344
					26.15.01.00 Process Electrical, Wire/Cable	**20.00 clf**	**73**	**7,587**	**7,700**				**764.33 /clf**	**15,287**	**1,217.18 /clf**	**24,344**
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, copper wire, bare stranded, 4/0	6.50 clf	18	1,903	2,730	-	-	-	712.82 /clf	4,633	1,139.56 /clf	7,407
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**18**	**1,903**	**2,730**				**4,633.33 /LS**	**4,633**	**7,407.17 /LS**	**7,407**
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	50.00 CY	1	97	-	-	1,316	-	28.27 /CY	1,413	43.98 /CY	2,199
					31.20.09.10 Earthworks, Sitework, Backfill	**50.00 CY**	**1**	**97**			**1,316**		**28.27 /CY**	**1,413**	**43.98 /CY**	**2,199**
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	50.00 CY	5	496	-	-	532	-	20.57 /CY	1,028	32.00 /CY	1,600
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**50.00 CY**	**5**	**496**			**532**		**20.57 /CY**	**1,028**	**32.00 /CY**	**1,600**
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	37.04 CY	2	219	-	-	1,081	-	35.08 /CY	1,299	54.58 /CY	2,022
					31.25.01.00 Earthworks, Structural, Excavation	**37.04 CY**	**2**	**219**			**1,081**		**35.08 /CY**	**1,299**	**54.58 /CY**	**2,022**
					26.12.SEC Subfeed from Elec Building	**600.00 LF**	**204**	**20,998**	**15,342**		**2,956**		**65.49 /LF**	**39,295**	**103.76 /LF**	**62,254**
			26.40.HYDTURB		**13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	80.00 lf	40	4,173	5,000	-	-	-	114.66 /lf	9,173	182.93 /lf	14,635
					Rigid galvanized steel plastic coated conduit elbows, 4" diameter, to 15' high	16.00 ea	48	5,007	3,136	-	-	-	508.95 /ea	8,143	806.12 /ea	12,898
					Rigid galvanized steel plastic coated conduit couplings, 4" diameter, to 15' high	16.00 ea	4	371	920	-	-	-	80.68 /ea	1,291	129.71 /ea	2,075
					Flexible metallic conduit, sealtite, 4" diameter	24.00 lf	16	1,667	480	-	-	-	89.48 /lf	2,147	140.67 /lf	3,376
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 4" diameter	8.00 ea	8	835	1,304	-	-	-	267.32 /ea	2,139	427.75 /ea	3,422
					Flexible metallic conduit, coupling sealtite to rigid, 4" diameter	8.00 ea	8	835	1,584	-	-	-	302.32 /ea	2,419	484.75 /ea	3,878
					Electrical Contractor startup assistance per hour	40.00 hr	400	41,727	4,000	-	1,000	-	1,168.17 /hr	46,727	1,824.87 /hr	72,995
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**524**	**54,614**	**16,424**		**1,000**		**72,038.08 /LS**	**72,038**	**113,278.73 /LS**	**113,279**
				26.10.03.00	Site Electrical, Duct Bank											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	36	4,160	4,500	-	-	-	2,886.69 /ton	8,660	4,600.31 /ton	13,801
					PVC conduit, schedule 40, 4" diameter, to 15' H, incl terminations, fittings, & support	2,320.00 LF	580	60,504	13,340	-	-	-	31.83 /LF	73,844	49.94 /LF	115,865
					PVC conduit elbows, 4" diameter, to 15' H	16.00 ea	16	1,641	368	-	-	-	125.58 /ea	2,009	197.06 /ea	3,153
					PVC conduit, field bends, 45 Deg. to 90 Deg., 4" diameter	16.00 ea	16	1,669	-	-	-	-	104.32 /ea	1,669	162.31 /ea	2,597
					PVC adapters, 4" diameter, to 15' H	16.00 ea	8	835	77	-	-	-	56.96 /ea	911	88.97 /ea	1,424
					Concrete (red) envelope/encasement, poured neat	29.63 CY	59	5,432	2,296	-	53	-	262.62 /CY	7,781	414.24 /CY	12,274
					End bulkheads, plywood, concrete envelope/encasement	60.00 sf	7	750	44	-	-	-	13.23 /sf	794	20.64 /sf	1,239
					26.10.03.00 Site Electrical, Duct Bank	**2,320.00 LF**	**722**	**74,991**	**20,625**		**53**		**41.24 /LF**	**95,669**	**64.81 /LF**	**150,352**
				26.15.01.00	Process Electrical, Wire/Cable											
					Cable terminations, indoor, insulation diameter range, 15 kV, .525" to 1.025", pad mount	48.00 ea	120	12,518	5,232	-	-	-	369.79 /ea	17,750	583.28 /ea	27,998
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 4/0, in conduit, excl splicing & terminations	78.00 clf	390	40,684	51,480	-	-	-	1,181.59 /clf	92,164	1,886.34 /clf	147,135
					26.15.01.00 Process Electrical, Wire/Cable	**78.00 clf**	**510**	**53,202**	**56,712**				**1,409.15 /clf**	**109,914**	**2,245.29 /clf**	**175,132**
				26.25.03.00	Electrical Equipment, Switchgear - General											
					Hi-Pot Test 15 KV	8.00 EA	16	1,669	-	1,600	-	-	408.63 /EA	3,269	575.82 /EA	4,607
					26.25.03.00 Electrical Equipment, Switchgear - General	**8.00 EA**	**16**	**1,669**		**1,600**			**408.63 /EA**	**3,269**	**575.82 /EA**	**4,607**
				31.20.09.10	Earthworks, Sitework, Backfill											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	70.00 CY	1	136	-	-	1,842	-	28.26 /CY	1,979	43.98 /CY	3,079
					31.20.09.10 Earthworks, Sitework, Backfill	**70.00 CY**	**1**	**136**			**1,842**		**28.26 /CY**	**1,979**	**43.98 /CY**	**3,079**
				31.20.15.00	Earthworks, Sitework, Hauling and Dump Fees											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	70.00 CY	7	694	-	-	745	-	20.57 /CY	1,440	32.00 /CY	2,240
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**70.00 CY**	**7**	**694**			**745**		**20.57 /CY**	**1,440**	**32.00 /CY**	**2,240**
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	59.26 CY	3	350	-	-	1,729	-	35.08 /CY	2,079	54.58 /CY	3,234
					31.25.01.00 Earthworks, Structural, Excavation	**59.26 CY**	**3**	**350**			**1,729**		**35.08 /CY**	**2,079**	**54.58 /CY**	**3,234**
					26.40.HYDTURB 13.8kV 15MW Hyd Turbine Pwr Feeders 4-[4" 3#4/0 #4/0G] 800A	**2,320.00 LF**	**1,783**	**185,656**	**93,761**	**1,600**	**5,370**		**123.44 /LF**	**286,386**	**194.79 /LF**	**451,922**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
			26.41.HYDTURB		**Hyd Turbine Controls Circuits**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	9	954	900	-	-	-	46.34 /lf	1,854	73.74 /lf	2,950
					Rigid galvanized steel plastic coated conduit elbows, 2" diameter, to 15' high	8.00 ea	8	835	336	-	-	-	146.32 /ea	1,171	230.71 /ea	1,846
					Rigid galvanized steel plastic coated conduit couplings, 2" diameter, to 15' high	8.00 ea	1	126	115	-	-	-	30.10 /ea	241	47.87 /ea	383
					Flexible metallic conduit, sealtite, 2" diameter	12.00 lf	3	334	52	-	-	-	32.12 /lf	385	50.29 /lf	603
					Flexible metallic conduit, sealtite, connectors, insulated, 90 Deg., 2" diameter	4.00 ea	2	167	102	-	-	-	67.23 /ea	269	106.46 /ea	426
					Flexible metallic conduit, coupling sealtite to rigid, 2" diameter	4.00 ea	3	334	126	-	-	-	114.95 /ea	460	181.14 /ea	725
					Electrical Contractor startup assistance per hour	40.00 hr	400	41,727	4,000	-	1,000	-	1,168.17 /hr	46,727	1,824.87 /hr	72,995
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**426**	**44,476**	**5,630**		**1,000**		**51,106.00 /LS**	**51,106**	**79,926.82 /LS**	**79,927**
				26.10.03.00	**Site Electrical, Duct Bank**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	36	4,160	4,500	-	-	-	2,886.69 /ton	8,660	4,600.31 /ton	13,801
					PVC conduit, schedule 40, 2" diameter, to 15' H, incl terminations, fittings, & support	1,160.00 LF	103	10,756	3,898	-	-	-	12.63 /LF	14,654	19.90 /LF	23,083
					PVC conduit elbows, 2" diameter, to 15' H	8.00 ea	4	361	28	-	-	-	48.63 /ea	389	75.92 /ea	607
					PVC conduit, field bends, 45 Deg. to 90 Deg., 2" diameter	8.00 ea	3	334	-	-	-	-	41.73 /ea	334	64.93 /ea	519
					PVC adapters, 2" diameter, to 15' H	8.00 ea	2	247	11	-	-	-	32.30 /ea	258	50.35 /ea	403
					Concrete (red) envelope/encasement, poured neat	29.63 CY	59	5,432	2,296	-	53	-	262.62 /CY	7,781	414.24 /CY	12,274
					End bulkheads, plywood, concrete envelope/encasement	60.00 sf	7	750	44	-	-	-	13.23 /sf	794	20.64 /sf	1,239
					26.10.03.00 Site Electrical, Duct Bank	**1,160.00 LF**	**214**	**22,040**	**10,777**		**53**		**28.34 /LF**	**32,871**	**44.76 /LF**	**51,926**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	120.00 clf	74	7,703	1,164	-	-	-	73.90 /clf	8,867	115.68 /clf	13,882
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	48.00 clf	55	5,723	1,440	-	-	-	149.22 /clf	7,163	234.35 /clf	11,249
					26.15.01.00 Process Electrical, Wire/Cable	**168.00 clf**	**129**	**13,426**	**2,604**				**95.42 /clf**	**16,030**	**149.59 /clf**	**25,131**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	70.00 CY	1	136	-	-	1,842	-	28.26 /CY	1,979	43.98 /CY	3,079
					31.20.09.10 Earthworks, Sitework, Backfill	**70.00 CY**	**1**	**136**			**1,842**		**28.26 /CY**	**1,979**	**43.98 /CY**	**3,079**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	70.00 CY	7	694	-	-	745	-	20.57 /CY	1,440	32.00 /CY	2,240
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**70.00 CY**	**7**	**694**			**745**		**20.57 /CY**	**1,440**	**32.00 /CY**	**2,240**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	59.26 CY	3	350	-	-	1,729	-	35.08 /CY	2,079	54.58 /CY	3,234
					31.25.01.00 Earthworks, Structural, Excavation	**59.26 CY**	**3**	**350**			**1,729**		**35.08 /CY**	**2,079**	**54.58 /CY**	**3,234**
					26.41.HYDTURB Hyd Turbine Controls Circuits	**1,160.00 LF**	**781**	**81,122**	**19,012**		**5,370**		**90.95 /LF**	**105,503**	**142.70 /LF**	**165,537**
					26.15 Process Electrical	***1.00*** **LS**	**5,383**	**578,471**	**431,684**	**1,600**	**101,755**		**1,113,510.29 /LS**	**1,113,510**	**1,763,388.77 /LS**	**1,763,389**
		26.20			**Facility Electrical**											
			26.25.LTG		**Interior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	500.00 lf	50	5,216	2,575	-	-	-	15.58 /lf	7,791	24.62 /lf	12,309
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	25.00 ea	10	1,043	84	-	-	-	45.10 /ea	1,127	70.41 /ea	1,760
					Outlet boxes, pressed steel, covers, blank, 4" square	24.00 ea	3	313	18	-	-	-	13.81 /ea	331	21.54 /ea	517
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	1.00 ea	0	13	2	-	-	-	14.70 /ea	15	22.98 /ea	23
					Toggle switch, quiet type, single pole, 20 amp	1.00 ea	0	31	3	-	-	-	34.37 /ea	34	53.74 /ea	54
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**63**	**6,616**	**2,683**				**9,298.77 /LS**	**9,299**	**14,662.96 /LS**	**14,663**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	16.00 clf	12	1,214	219	-	-	-	89.57 /clf	1,433	140.36 /clf	2,246
					26.15.01.00 Process Electrical, Wire/Cable	**16.00 clf**	**12**	**1,214**	**219**				**89.57 /clf**	**1,433**	**140.36 /clf**	**2,246**
				26.20.03.00	**Facility Electrical, Lighting**											
					LED Strip Light, hdwe	24.00 ea	34	3,514	2,640	-	-	-	256.41 /ea	6,154	406.94 /ea	9,767
					Emergency ballast, material only, interior, factory installed in fixture	6.00 ea		-	912	-	-	-	152.00 /ea	912	247.53 /ea	1,485
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	2.00 ea	2	209	140	-	-	-	174.32 /ea	349	276.30 /ea	553
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	24.00 ea	6	626	131	-	-	-	31.53 /ea	757	49.45 /ea	1,187
					26.20.03.00 Facility Electrical, Lighting	***1.00*** **LS**	**42**	**4,348**	**3,823**				**8,171.17 /LS**	**8,171**	**12,991.12 /LS**	**12,991**
					26.25.LTG Interior Lighting and Control	***1.00*** **LS**	**117**	**12,178**	**6,725**				**18,903.01 /LS**	**18,903**	**29,899.77 /LS**	**29,900**
			26.26.EXTLTG		**Exterior Lighting and Control**											
				26.00.99.00	**Electrical, Other**											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	80.00 lf	5	514	86	-	-	-	7.49 /lf	599	11.73 /lf	938
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.41 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.55 /ea	86
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**7**	**733**	**102**				**834.79 /LS**	**835**	**1,306.31 /LS**	**1,306**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	3.00 clf	2	228	41	-	-	-	89.57 /clf	269	140.35 /clf	421
					26.15.01.00 Process Electrical, Wire/Cable	**3.00 clf**	**2**	**228**	**41**				**89.57 /clf**	**269**	**140.35 /clf**	**421**
				26.15.07.00	**Lighting**											
					LED Area Light	4.00 E	3	313		-	-	-	78.24 /E	313	121.74 /E	487
					Wallpack Photocell	4.00 E	1	104		-	-	-	26.08 /E	104	40.58 /E	162
					26.15.07.00 Lighting	***1.00*** **LS**	**4**	**417**					**417.27 /LS**	**417**	**649.27 /LS**	**649**
					26.26.EXTLTG Exterior Lighting and Control	***1.00*** **LS**	**13**	**1,378**	**143**				**1,520.76 /LS**	**1,521**	**2,376.64 /LS**	**2,377**
			26.30.DEV		**Device Outlets**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	500.00 lf	57	5,961	5,000	-	-	-	21.92 /lf	10,961	34.83 /lf	17,417
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	8.00 ea	5	556	176	-	-	-	91.55 /ea	732	144.04 /ea	1,152
					Duplex receptacle, ground fault interrupting, 20 amp	8.00 ea	2	247	360	-	-	-	75.91 /ea	607	121.38 /ea	971
					WP cover	8.00 ea	1	111	340	-	-	-	56.41 /ea	451	90.85 /ea	727
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**66**	**6,876**	**5,876**				**12,751.87 /LS**	**12,752**	**20,267.33 /LS**	**20,267**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	16.00 clf	12	1,214	219	-	-	-	89.57 /clf	1,433	140.35 /clf	2,246

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.15.01.00 Process Electrical, Wire/Cable	**16.00 clf**	**12**	**1,214**	**219**				**89.57 /clf**	**1,433**	**140.35 /clf**	**2,246**
					26.30.DEV Device Outlets	***1.00* LS**	**78**	**8,090**	**6,095**				**14,184.94 /LS**	**14,185**	**22,513.00 /LS**	**22,513**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.20.05.00	**Facility Electrical, HVAC**											
					Allowance for HVAC circuit, connection, controls	200.00 HR	200	20,863	10,000	-	3,000	-	169.32 /HR	33,863	267.07 /HR	53,415
					26.20.05.00 Facility Electrical, HVAC	***1.00* LS**	**200**	**20,863**	**10,000**		**3,000**		**33,863.40 /LS**	**33,863**	**53,414.93 /LS**	**53,415**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00* LS**	**200**	**20,863**	**10,000**		**3,000**		**33,863.40 /LS**	**33,863**	**53,414.93 /LS**	**53,415**
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	10.00 ea	10	1,043	260	-	-	-	130.32 /ea	1,303	204.65 /ea	2,047
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	400.00 lf	10	1,043	1,272	-	-	-	5.79 /lf	2,315	9.24 /lf	3,695
					LPS design and certification, misc mat and labor	1.00 LS	16	1,669	1,000	1,500	-	-	4,169.07 /LS	4,169	6,109.39 /LS	6,109
					26.15.10.00 Process Electrical, Lightning Protection	**1.00 LS**	**36**	**3,755**	**2,532**	**1,500**			**7,787.41 /LS**	**7,787**	**11,850.43 /LS**	**11,850**
					26.90.LPS Facility Lightning Protection System	**1.00 LS**	**36**	**3,755**	**2,532**	**1,500**			**7,787.41 /LS**	**7,787**	**11,850.43 /LS**	**11,850**
					26.20 Facility Electrical	***1.00* LS**	**443**	**46,264**	**25,495**	**1,500**	**3,000**		**76,259.52 /LS**	**76,260**	**120,054.77 /LS**	**120,055**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	100.00 lf	18	1,855	1,905	-	-	-	37.60 /lf	3,760	59.88 /lf	5,988
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.12 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.72 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.47 /ea	80
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.79 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.35 /ea	131
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.24 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,354.89 /ea	11,355
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,064.77 /ea	13,065
					26.00.99.00 Electrical, Other	***1.00* LS**	**77**	**8,073**	**11,386**				**19,459.00 /LS**	**19,459**	**31,102.80 /LS**	**31,103**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.70 clf	1	90	38	-	-	-	182.89 /clf	128	288.50 /clf	202
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.70 clf	1	110	54	-	-	-	234.96 /clf	164	371.21 /clf	260
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	2.00 clf	4	417	318	-	-	-	367.64 /clf	735	583.55 /clf	1,167
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	2.00 clf	7	759	770	-	-	-	764.34 /clf	1,529	1,217.19 /clf	2,434
					26.15.01.00 Process Electrical, Wire/Cable	**5.40 clf**	**13**	**1,376**	**1,180**				**473.41 /clf**	**2,556**	**752.46 /clf**	**4,063**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	2,500	-	-	-	4,884.39 /EA	4,884	7,781.15 /EA	7,781
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**23**	**2,384**	**2,500**				**4,884.39 /EA**	**4,884**	**7,781.15 /EA**	**7,781**
					26.20.DIST Electrical Distribution Equipment	***1.00* LS**	**113**	**11,834**	**15,066**				**26,899.82 /LS**	**26,900**	**42,947.21 /LS**	**42,947**
					26.25 Electrical Equipment	***1.00* LS**	**113**	**11,834**	**15,066**				**26,899.82 /LS**	**26,900**	**42,947.21 /LS**	**42,947**
					26.0 Electrical Work	***1.00* LS**	**6,499**	**694,986**	**498,246**	**3,100**	**104,755**		**1,301,087.15 /LS**	**1,301,087**	**2,059,625.60 /LS**	**2,059,626**
	27.0				**Telecommunications - Network**											
		27.00			**Telecommunications**											
			27.30.COMCDT		**Comm Conduit to Admin**											
				26.10.02.00	**Site Electrical, Buried Conduit**											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,600.30 /ton	4,140
					Concrete (red) envelope/encasement, poured neat	40.00 CY	80	7,333	3,100	-	72	-	262.62 /CY	10,505	414.24 /CY	16,570
					End bulkheads, plywood, concrete envelope/encasement	75.00 sf	9	938	55	-	-	-	13.23 /sf	993	20.64 /sf	1,548
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	1,200.00 LF	120	12,518	4,464	-	-	-	14.15 /LF	16,982	22.29 /LF	26,747
					26.10.02.00 Site Electrical, Buried Conduit	**1,200.00 LF**	**220**	**22,037**	**8,969**		**72**		**25.90 /LF**	**31,077**	**40.84 /LF**	**49,005**
				26.15.11.00	**Process Electrical, Grounding**											
					Ground wire, copper wire, bare stranded, 4/0	13.00 clf	36	3,807	5,460	-	-	-	712.82 /clf	9,267	1,139.57 /clf	14,814
					26.15.11.00 Process Electrical, Grounding	***1.00* LS**	**36**	**3,807**	**5,460**				**9,266.66 /LS**	**9,267**	**14,814.37 /LS**	**14,814**
				31.20.09.10	**Earthworks, Sitework, Backfill**											
					Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	180.00 CY	3	351	-	-	4,737	-	28.26 /CY	5,088	43.98 /CY	7,916
					31.20.09.10 Earthworks, Sitework, Backfill	**180.00 CY**	**3**	**351**			**4,737**		**28.26 /CY**	**5,088**	**43.98 /CY**	**7,916**
				31.20.15.00	**Earthworks, Sitework, Hauling and Dump Fees**											
					Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	180.00 CY	18	1,785	-	-	1,916	-	20.57 /CY	3,702	32.00 /CY	5,760
					31.20.15.00 Earthworks, Sitework, Hauling and Dump Fees	**180.00 CY**	**18**	**1,785**			**1,916**		**20.57 /CY**	**3,702**	**32.00 /CY**	**5,760**
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 4' to 6' deep, excavator, excludes sheeting or dewatering	177.78 CY	9	1,049	-	-	5,187	-	35.08 /CY	6,236	54.58 /CY	9,703
					31.25.01.00 Earthworks, Structural, Excavation	**177.78 CY**	**9**	**1,049**			**5,187**		**35.08 /CY**	**6,236**	**54.58 /CY**	**9,703**
					27.30.COMCDT Comm Conduit to Admin	**1,200.00 LF**	**287**	**29,028**	**14,429**		**11,912**		**46.14 /LF**	**55,369**	**72.67 /LF**	**87,198**
					27.00 Telecommunications	***1.00* LS**	**287**	**29,028**	**14,429**		**11,912**		**55,369.22 /LS**	**55,369**	**87,198.08 /LS**	**87,198**
					27.0 Telecommunications - Network	***1.00* LS**	**287**	**29,028**	**14,429**		**11,912**		**55,369.22 /LS**	**55,369**	**87,198.08 /LS**	**87,198**
	28.0				**Electronic Safety and Security**											
		28.00			**Electronic Safety and Security**											
			28.20.AC		**Access Control System**											
				28.35.01.00	**Electronic Safety and Security**											
					Card reader - all in allowance per each (incl circuit, cards, CX)	2.00 ea	24	2,504	1,600	-	-	-	2,051.81 /ea	4,104	3,250.52 /ea	6,501
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**24**	**2,504**	**1,600**				**4,103.61 /LS**	**4,104**	**6,501.04 /LS**	**6,501**
					28.20.AC Access Control System	***1.00* LS**	**24**	**2,504**	**1,600**				**4,103.61 /LS**	**4,104**	**6,501.04 /LS**	**6,501**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	**Electronic Safety and Security**											
					Closed circuit television system (CCTV), industrial quality, for additional camera stations, add	2.00 ea	6	618	1,380	-	-	-	999.09 /ea	1,998	1,604.55 /ea	3,209

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				28.35.01.00	Electronic Safety and Security											
					Closed circuit television system (CCTV), industrial quality, for weatherproof camera station, add	2.00 ea	12	1,284	1,080	-	-	-	1,181.95 /ea	2,364	1,878.21 /ea	3,756
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	8	835	1,000	1,000	-	-	2,834.54 /LS	2,835	4,182.91 /LS	4,183
					28.35.01.00 Electronic Safety and Security	*1.00* LS	26	2,737	3,460	1,000			7,196.61 /LS	7,197	11,148.43 /LS	11,148
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**26**	**2,737**	**3,460**	**1,000**			**7,196.61 /LS**	**7,197**	**11,148.43 /LS**	**11,148**
			28.20.ID		**Intrusion Detection System**											
				28.35.01.00	Electronic Safety and Security											
					Securitized door, all-in allowance per each (incl circuit, devices, CX)	2.00 ea	40	4,173	2,000	-	-	-	3,086.34 /ea	6,173	4,874.71 /ea	9,749
					Door controller (all-in cost including vendor program and startup)	1.00 ea	5	522	2,000	500	-	-	3,021.59 /ea	3,022	4,696.46 /ea	4,696
					28.35.01.00 Electronic Safety and Security	*1.00* LS	45	4,694	4,000	500			9,194.27 /LS	9,194	14,445.87 /LS	14,446
					28.20.ID Intrusion Detection System	***1.00*** **LS**	**45**	**4,694**	**4,000**	**500**			**9,194.27 /LS**	**9,194**	**14,445.87 /LS**	**14,446**
					28.00 Electronic Safety and Security	*1.00* LS	95	9,934	9,060	1,500			20,494.49 /LS	20,494	32,095.34 /LS	32,095
					28.0 Electronic Safety and Security	*1.00* LS	95	9,934	9,060	1,500			20,494.49 /LS	20,494	32,095.34 /LS	32,095
	40.0				Process Pipe											
		40.11			Process Pipe, Carbon Steel											
			40.00.500		**Funk PGP Generating Plant, Process Piping**											
				40.00.99.80	Process Pipe, Small Bore Piping											
					Small Bore Piping and Valving Allowance	400.00 LF	240	27,153	30,000	-	1,501	-	146.64 /LF	58,654	189.60 /LF	75,842
					40.00.99.80 Process Pipe, Small Bore Piping	400.00 LF	240	27,153	30,000		1,501		146.64 /LF	58,654	189.60 /LF	75,842
				40.10.02.08	Process Pipe, 8" RW											
					Pipe, WSP, 8" diameter, schedule 40	200.00 LF	166	18,726	21,800	-	1,035	-	207.81 /LF	41,561	268.90 /LF	53,780
					8" Dia Wall Pipes	4.00 ea	24	2,715	10,000	-	150	-	3,216.35 /ea	12,865	4,220.84 /ea	16,883
					8" WSP Fittings	20.00 ea	120	13,577	10,000	-	750	-	1,216.35 /ea	24,327	1,563.93 /ea	31,279
					Sump Pump Allowance	2.00 ea	48	5,431	10,000	-	300	-	7,865.40 /ea	15,731	10,241.08 /ea	20,482
					Miscellaneous Items and Consumables Allowance	1.00 ls		5,000	7,000	-	2,000	-	14,000.00 /ls	14,000	18,090.86 /ls	18,091
					40.10.02.08 Process Pipe, 8" RW	200.00 LF	358	45,449	58,800		4,235		542.42 /LF	108,485	702.57 /LF	140,515
				40.10.02.90	Process Pipe, 90" RW											
					Piping, WSP 90° diameter Wall Pipe	31.00 LF	145	15,072	38,750	-	3,078	-	1,835.49 /LF	56,900	2,395.91 /LF	74,273
					Concrete Pipe Collar	2.00 ea	96	9,777	10,000	-	1,131	-	10,453.84 /ea	20,908	13,492.05 /ea	26,984
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	6,000	-	2,000	-	12,000.00 /ls	12,000	15,506.46 /ls	15,506
					40.10.02.90 Process Pipe, 90" RW	31.00 LF	241	28,848	54,750		6,209		2,897.02 /LF	89,808	3,766.58 /LF	116,764
					40.00.500 Funk PGP Generating Plant, Process Piping	**631.00 LF**	**838**	**101,451**	**143,550**		**11,945**		**407.20 /LF**	**256,946**	**527.92 /LF**	**333,120**
					40.11 Process Pipe, Carbon Steel	631.00 LF	838	101,451	143,550		11,945		407.20 /LF	256,946	527.92 /LF	333,120
					40.0 Process Pipe	631.00 LF	838	101,451	143,550		11,945		407.20 /LF	256,946	527.92 /LF	333,120
	40.9				Instrumentation											
		26.15			Process Electrical											
			40.90.I&C		**Instrumentation & Control**											
				40.90.99.01	Instrumentation Allowance											
					Generator I&C Components	2.00 ea	400	33,028	20,000		-	-	26,514.00 /ea	53,028	41,979.58 /ea	83,959
					40.90.99.01 Instrumentation Allowance	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	83,959.17 /LS	83,959
					40.90.I&C Instrumentation & Control	***1.00*** **LS**	**400**	**33,028**	**20,000**				**53,028.00 /LS**	**53,028**	**83,959.17 /LS**	**83,959**
					26.15 Process Electrical	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	83,959.17 /LS	83,959
					40.9 Instrumentation	*1.00* LS	400	33,028	20,000				53,028.00 /LS	53,028	83,959.17 /LS	83,959
	48.0				Electrical Power Generation											
		48.10			Electrical Power Generation											
			26.00.000		**Hydropower Generators**											
				26.00.99.00	Electrical, Other											
					Furnish Francis Turbines	2.00 EA		0	0	-	0	0	0.01 /EA	0	3,981,096.04 /EA	7,962,192
					Shipping from Deming, Wa to Project Site	1.00 ls				-	-	0	0.01 /ls	0	3,981,096.03 /ls	3,981,096
					26.00.99.00 Electrical, Other	*1.00* LS						0	0.03 /LS	0	11,943,288.10 /LS	11,943,288
					26.00.000 Hydropower Generators	**2.00 EA**						**0**	**0.02 /EA**	**0**	**5,971,644.05 /EA**	**11,943,288**
					48.10 Electrical Power Generation	2.00 EA						0	0.02 /EA	0	5,971,644.05 /EA	11,943,288
					48.0 Electrical Power Generation	2.00 EA						0	0.02 /EA	0	5,971,644.05 /EA	11,943,288
					2265 TRR PGP Generating Plant	***1.00*** **LS**	**52,722**	**5,599,340**	**3,849,078**	**178,242**	**215,696**	**0**	**9,842,356.48 /LS**	**9,842,356**	**26,521,211.73 /LS**	**26,521,212**
2270					**TRR PGP Chiller Yard**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.001		**6" thick Slab on Grade**											
				03.10.05.06	Cast-In-Place Concrete, Slabs on Grade, 6" thick											
					Fine grade, for slab on grade, by hand	4,031.00 sf	28	2,551	121	-	-	-	0.66 /sf	2,671	0.97 /sf	3,898
					Fill, gravel subbase, under building slab on grade	75.00 cy	38	3,390	2,100	-	-	-	73.19 /cy	5,490	108.60 /cy	8,145
					Concrete pumping, subcontract, all inclusive price	75.00 cy		-	-	1,875	-	-	25.00 /cy	1,875	36.40 /cy	2,730
					Slab on grade edge forms, up to 6"	368.00 lf	20	2,113	96	-	-	-	6.00 /lf	2,209	8.76 /lf	3,223
					Reinforcing in place, A615 Gr 60, priced per lbs.	10,077.50 lb		-	7,558	4,031	-	-	1.15 /lb	11,589	1.73 /lb	17,421
					Concrete, ready mix, 4500 psi	75.00 CY		-	16,500	-	-	-	220.00 /CY	16,500	336.26 /CY	25,220
					Add for concrete waste, 4500 psi	3.00 cy		-	660	-	-	-	220.00 /cy	660	336.26 /cy	1,009
					Placing concrete, concrete pump	75.00 cy	109	9,883	-	-	-	-	131.77 /cy	9,883	191.85 /cy	14,389
					Finishing floors, monolithic, trowel finish (machine)	4,031.00 sf	81	7,364	81	-	-	-	1.85 /sf	7,445	2.69 /sf	10,845
					Curing, membrane spray	4,031.00 sf	8	729	161	-	-	-	0.22 /sf	890	0.32 /sf	1,307
					Polyethelene vapor barrier, 10 mil thick	40.31 sq	9	955	427	-	-	-	34.30 /sq	1,383	50.71 /sq	2,044
					03.10.05.06 Cast-In-Place Concrete, Slabs on Grade, 6" thick	75.00 CY	292	26,984	27,704	5,906			807.92 /CY	60,594	1,203.07 /CY	90,230
					MOA-03.20.001 6" thick Slab on Grade	**75.00 CY**	**292**	**26,984**	**27,704**	**5,906**			**807.92 /CY**	**60,594**	**1,203.07 /CY**	**90,230**
					03.18 Cast-In-Place Concrete, Slabs on Grade	75.00 CY	292	26,984	27,704	5,906			807.92 /CY	60,594	1,203.07 /CY	90,230
		03.27			Cast-In-Place Concrete, Equipment Pads											
			MOA-03.15.002		**6" thick Equipment Pad**											
				03.10.13.06	Cast-In-Place Concrete, Equipment Pads, 6" thick											
					Fine grade, for slab on grade, by hand	1,409.00 sf	10	892	42	-	-	-	0.66 /sf	934	0.97 /sf	1,363
					Concrete pumping, subcontract, all inclusive price	27.00 cy		-	-	675	-	-	25.00 /cy	675	36.40 /cy	983
					Edge forms, housekeeping pads, up to 6"	480.00 lf	25	2,756	125	-	-	-	6.00 /lf	2,881	8.76 /lf	4,204
					Reinforcing in place, A615 Gr 60, priced per lbs.	2,217.87 lb		-	1,663	887	-	-	1.15 /lb	2,551	1.73 /lb	3,834

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.13.06	**Cast-In-Place Concrete, Equipment Pads, 6" thick**											
					Concrete, ready mix, 4500 psi	27.00 CY		-	5,940	-	-	-	220.00 /CY	5,940	336.26 /CY	9,079
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump	27.00 cy	39	3,558	-	-	-	-	131.77 /cy	3,558	191.85 /cy	5,180
					Finish housekeeping pads	1,409.00 sf	56	5,148	42	-	-	-	3.68 /sf	5,190	5.37 /sf	7,560
					Curing, membrane spray	1,409.00 sf	3	255	56	-	-	-	0.22 /sf	311	0.32 /sf	457
					Polyethelene vapor barrier, 6 mil thick	14.09 sq	3	334	51	-	-	-	27.33 /sq	385	40.06 /sq	564
					03.10.13.06 Cast-In-Place Concrete, Equipment Pads, 6" thick	**27.00 CY**	**137**	**12,942**	**8,360**	**1,562**			**846.84 /CY**	**22,865**	**1,255.40 /CY**	**33,896**
					MOA-03.15.002 6" thick Equipment Pad	**27.00 CY**	**137**	**12,942**	**8,360**	**1,562**			**846.84 /CY**	**22,865**	**1,255.40 /CY**	**33,896**
					03.27 Cast-In-Place Concrete, Equipment Pads	**27.00 CY**	**137**	**12,942**	**8,360**	**1,562**			**846.84 /CY**	**22,865**	**1,255.40 /CY**	**33,896**
					03.0 Concrete Work	**102.00 CY**	**429**	**39,926**	**36,064**	**7,468**			**818.22 /CY**	**83,458**	**1,216.92 /CY**	**124,126**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.00.050		**HVAC Chiller Equipment**											
				23.73.13.00	**HVAC Equipment**											
					Water chiller, centrifugal liquid chiller, packaged unit, water cooled, Allowance	1.00 ea	492	56,847	835,500	-	***5,000***	-	897,347.26 /ea	897,347	1,187,601.33 /ea	1,187,601
					Chillers Interconnecting Pipe, Fittings, and Valving	340.00 lf	204	23,080	32,300	-	4,420	-	175.88 /lf	59,800	227.79 /lf	77,448
					23.73.13.00 HVAC Equipment	***1.00* LS**	**696**	**79,928**	**867,800**		**9,420**		**957,147.62 /LS**	**957,148**	**1,265,049.63 /LS**	**1,265,050**
					23.00.00.050 HVAC Chiller Equipment	***1.00* LS**	**696**	**79,928**	**867,800**		**9,420**		**957,147.62 /LS**	**957,148**	**1,265,049.63 /LS**	**1,265,050**
					23.00 HVAC	***1.00* LS**	**696**	**79,928**	**867,800**		**9,420**		**957,147.62 /LS**	**957,148**	**1,265,049.63 /LS**	**1,265,050**
					23.0 HVAC	***1.00* LS**	**696**	**79,928**	**867,800**		**9,420**		**957,147.62 /LS**	**957,148**	**1,265,049.63 /LS**	**1,265,050**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Elec Distribution and LCP Circuits	1.00 LS	35	3,651	5,000	100,000	-	-	108,651.10 /LS	108,651	139,418.69 /LS	139,419
					Grounding/LPS	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,103.00 /LS	20,103
					Yard ighting	1.00 LS	35	3,651	5,000	10,000	-	-	18,651.10 /LS	18,651	26,382.78 /LS	26,383
					Receptacles	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,102.98 /LS	20,103
					26.15.10.00 Process Electrical, Lightning Protection	***1.00* LS**	**140**	**14,604**	**20,000**	**120,000**			**154,604.40 /LS**	**154,604**	**206,007.45 /LS**	**206,007**
					26.90.LPS Facility Lightning Protection System	***1.00* LS**	**140**	**14,604**	**20,000**	**120,000**			**154,604.40 /LS**	**154,604**	**206,007.45 /LS**	**206,007**
					26.20 Facility Electrical	***1.00* LS**	**140**	**14,604**	**20,000**	**120,000**			**154,604.40 /LS**	**154,604**	**206,007.45 /LS**	**206,007**
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	30.00 lf	5	556	572	-	-	-	37.60 /lf	1,128	59.88 /lf	1,796
					Flexible metallic conduit, steel, 1-1/2" diameter	12.00 lf	2	200	31	-	-	-	19.24 /lf	231	30.13 /lf	362
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.71 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	5.00 ea	1	130	123	-	-	-	50.58 /ea	253	80.48 /ea	402
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.79 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	5.00 ea	2	181	230	-	-	-	82.28 /ea	411	131.37 /ea	657
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.23 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,354.89 /ea	11,355
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,064.75 /ea	13,065
					26.00.99.00 Electrical, Other	***1.00* LS**	**69**	**7,175**	**10,357**				**17,531.97 /LS**	**17,532**	**28,029.86 /LS**	**28,030**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.70 clf	1	90	38	-	-	-	182.89 /clf	128	288.53 /clf	202
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.70 clf	1	110	54	-	-	-	234.96 /clf	164	371.19 /clf	260
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	2.00 clf	4	417	318	-	-	-	367.64 /clf	735	583.56 /clf	1,167
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	2.00 clf	7	759	770	-	-	-	764.34 /clf	1,529	1,217.19 /clf	2,434
					26.15.01.00 Process Electrical, Wire/Cable	**5.40 clf**	**13**	**1,376**	**1,180**				**473.41 /clf**	**2,556**	**752.46 /clf**	**4,063**
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Chiller Connection	4.00 EA	32	3,338	14,400	-	-	-	4,434.54 /EA	17,738	7,160.94 /EA	28,644
					26.25.03.00 Electrical Equipment, Switchgear - General	**4.00 EA**	**32**	**3,338**	**14,400**				**4,434.54 /EA**	**17,738**	**7,160.94 /EA**	**28,644**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	2,500	-	-	-	4,884.39 /EA	4,884	7,781.13 /EA	7,781
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**23**	**2,384**	**2,500**				**4,884.39 /EA**	**4,884**	**7,781.13 /EA**	**7,781**
					26.20.DIST Electrical Distribution Equipment	***1.00* LS**	**137**	**14,273**	**28,438**				**42,710.93 /LS**	**42,711**	**68,518.01 /LS**	**68,518**
					26.25 Electrical Equipment	***1.00* LS**	**137**	**14,273**	**28,438**				**42,710.93 /LS**	**42,711**	**68,518.01 /LS**	**68,518**
					26.0 Electrical Work	***1.00* LS**	**277**	**28,878**	**48,438**	**120,000**			**197,315.33 /LS**	**197,315**	**274,525.46 /LS**	**274,525**
					2270 TRR PGP Chiller Yard	***1.00* LS**	**1,402**	**148,731**	**952,302**	**127,468**	**9,420**		**1,237,921.28 /LS**	**1,237,921**	**1,663,701.29 /LS**	**1,663,701**
2271					**TRR PGP HVAC Building**											
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.002		**8" thick Slab on Grade**											
				03.10.05.08	**Cast-In-Place Concrete, Slabs on Grade, 8" thick**											
					Fine grade, for slab on grade, by hand	1,127.59 sf	8	713	34	-	-	-	0.66 /sf	747	0.97 /sf	1,090
					Fill, gravel subbase, under building slab on grade	22.00 cy	11	994	616	-	-	-	73.19 /cy	1,610	108.60 /cy	2,389
					Concrete pumping, subcontract, all inclusive price	51.00 cy		-	-	1,275	-	-	25.00 /cy	1,275	36.40 /cy	1,856
					Slab on grade edge forms, 7" to 12"	136.00 sf	24	2,652	136	-	-	-	20.50 /sf	2,788	29.92 /sf	4,069
					Reinforcing in place, A615 Gr 60, priced per lbs.	6,200.00 lb		-	4,650	2,480	-	-	1.15 /lb	7,130	1.73 /lb	10,718
					Concrete, ready mix, 4500 psi	51.00 CY		-	11,220	-	-	-	220.00 /CY	11,220	336.26 /CY	17,149
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.27 /cy	673
					Placing concrete, concrete pump	51.00 cy	74	6,720	-	-	-	-	131.77 /cy	6,720	191.85 /cy	9,784
					Finishing floors, monolithic, trowel finish (machine)	1,127.59 sf	23	2,060	23	-	-	-	1.85 /sf	2,082	2.69 /sf	3,034
					Curing, membrane spray	1,127.59 sf	2	204	45	-	-	-	0.22 /sf	249	0.32 /sf	366
					Polyethelene vapor barrier, 10 mil thick	11.28 sq	2	267	120	-	-	-	34.30 /sq	387	50.71 /sq	572
					03.10.05.08 Cast-In-Place Concrete, Slabs on Grade, 8" thick	**51.00 CY**	**145**	**13,611**	**17,283**	**3,755**			**679.40 /CY**	**34,649**	**1,013.74 /CY**	**51,701**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					MOA-03.20.002 8" thick Slab on Grade	**51.00 CY**	**145**	**13,611**	**17,283**	**3,755**			**679.40 /CY**	**34,649**	**1,013.74 /CY**	**51,701**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**51.00 CY**	**145**	**13,611**	**17,283**	**3,755**			**679.40 /CY**	**34,649**	**1,013.74 /CY**	**51,701**
					03.0 Concrete Work	**51.00 CY**	**145**	**13,611**	**17,283**	**3,755**			**679.40 /CY**	**34,649**	**1,013.74 /CY**	**51,701**
	04.0				**Masonry - Architectural**											
		04.21			**Concrete Unit Masonry - Exterior**											
			MOA-04.21.001		**8" thick Exterior CMU Wall**											
				04.00.02.08	**Masonry Concrete Masonry Units, 8"**											
					Grout, door frames, 6' x 7' opening, 3.5 C.F. per opening	2.00 opng	1	151	41	-	7	-	99.76 /opng	200	141.74 /opng	283
					Reinforcing, steel bars A615, placed horizontal, average #4 bar	902.61 lb	16	1,655	361	-	-	-	2.23 /lb	2,016	3.17 /lb	2,861
					Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	663.68 lb	15	1,565	471	-	-	-	3.07 /lb	2,036	4.36 /lb	2,897
					Allow - shoring and bracing at CMU walls (percentage wall area)	796.42 sfwa	9	992	143	-	-	-	1.43 /sfwa	1,135	2.02 /sfwa	1,606
					Control joint, PVC, cross-shaped for CMU units	180.52 lf	5	532	442	-	-	-	5.40 /lf	974	7.77 /lf	1,402
					Concrete block, decorative, split face or scored split face, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and reinforcing	2,654.72 SF	354	35,988	15,397	-	-	-	19.36 /SF	51,385	27.63 /SF	73,362
					Precast concrete coping, stock units, 8" wall, 10" wide, 4" tapers to 3-1/2", includes mortar, excludes scaffolding	327.00 lf	70	7,067	2,354	-	-	-	28.81 /lf	9,421	41.03 /lf	13,417
					Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	40.00 lf	11	1,336	126	-	67	-	38.22 /lf	1,529	53.96 /lf	2,158
					Channel framing, structural steel, field fabricated, C6x8.2, incl cutting & welding	24.00 lf	10	1,312	188	-	65	-	65.23 /lf	1,566	92.29 /lf	2,215
					Wood framing, miscellaneous, rough bucks, treated, for doors or windows, 2" x 8"	0.13 mbf	4	455	156	-	-	-	4,593.00 /mbf	611	6,542.71 /mbf	870
					Silicone water repellants, sprayed on CMU, 2 coat	5,309.44 sf	14	1,460	6,584	-	-	-	1.52 /sf	8,044	2.22 /sf	11,787
					Reglet, zinc and copper alloy, 20 ounce	200.00 lf	7	775	574	-	-	-	6.74 /lf	1,349	9.69 /lf	1,938
					Reglet, counter flashing for zinc and copper alloy, 20 ounce, 12" wide	200.00 lf	11	1,300	1,050	-	-	-	11.75 /lf	2,350	16.90 /lf	3,380
					Caulking and sealants, butyl based, bulk, in place, 77 LF per gallon, 1/2" x 1/2"	560.00 lf	16	1,680	386	-	-	-	3.69 /lf	2,067	5.24 /lf	2,934
					04.00.02.08 Masonry Concrete Masonry Units, 8"	**2,654.72 SF**	**544**	**56,268**	**28,275**		**139**		**31.90 /SF**	**84,683**	**45.62 /SF**	**121,110**
					MOA-04.21.001 8" thick Exterior CMU Wall	**2,654.72 SF**	**544**	**56,268**	**28,275**		**139**		**31.90 /SF**	**84,683**	**45.62 /SF**	**121,110**
					04.21 Concrete Unit Masonry - Exterior	**2,654.72 SF**	**544**	**56,268**	**28,275**		**139**		**31.90 /SF**	**84,683**	**45.62 /SF**	**121,110**
					04.0 Masonry - Architectural	**2,654.72 SF**	**544**	**56,268**	**28,275**		**139**		**31.90 /SF**	**84,683**	**45.62 /SF**	**121,110**
	07.0				**Thermal and Moisture Protection**											
		07.00			**Thermal & Moisture Protection**											
			07.00.000		**TPO Membrane Roofing**											
				07.50.02.00	**Thermal & Moisture Protection, Membrane Roofing**											
					Roof Deck Insulation, extruded polystyrene, tapered for drainage, 25 PSI compressive strength	1,127.59 bf	14	1,463	2,255	-	-	-	3.30 /bf	3,718	4.78 /bf	5,391
					Thermoplastic Polyolefin Roofing, 60 mils, heat welded seams, fully adhered	15.36 SQ	25	2,550	2,166	-	119	-	314.73 /SQ	4,834	452.72 /SQ	6,954
					Coping, galvanized steel, 24 gauge, 16" wall	136.00 lf	18	2,015	552	-	-	-	18.88 /lf	2,567	26.83 /lf	3,649
					Steel downspouts, galvanized, rectangular, corrugated, 3" x 4", 28 gauge	28.00 lf	2	188	130	-	-	-	11.38 /lf	319	16.34 /lf	458
					Reglet, galvanized steel, in concrete parapet, 24 gauge	136.00 lf	5	527	382	-	-	-	6.68 /lf	909	9.60 /lf	1,306
					Reglet, counter flashing for galvanized steel, .020" thick, 12 wide	136.00 lf	7	884	265	-	-	-	8.45 /lf	1,149	12.02 /lf	1,635
					07.50.02.00 Thermal & Moisture Protection, Membrane Roofing	**15.36 SQ**	**71**	**7,627**	**5,751**		**119**		**878.68 /SQ**	**13,497**	**1,262.53 /SQ**	**19,392**
					07.00.000 TPO Membrane Roofing	**15.36 SQ**	**71**	**7,627**	**5,751**		**119**		**878.68 /SQ**	**13,497**	**1,262.53 /SQ**	**19,392**
			MOA-07.00.001		**Metal Roof**											
				07.60.02.00	**Thermal & Moisture Protection, Metal Roofing**											
					Roof Trusses, A992 steel, shop fabricated, incl shop primer, bolted connections, minimum	0.80 ton	5	613	8,400	-	178	-	11,488.98 /ton	9,191	16,914.24 /ton	13,531
					Trusses, WT chords, 40-ton job lots, shop fabricated, incl shop primer, average	8.00 ton	58	7,246	84,000	-	2,104	-	11,668.80 /ton	93,350	17,167.06 /ton	137,336
					Metal roof decking, steel, open type B wide rib, galvanized, over 500 Sq, 1-1/2" D, 20 gauge	1,127.59 SF	8	1,048	3,710	-	39	-	4.25 /SF	4,798	6.22 /SF	7,014
					07.60.02.00 Thermal & Moisture Protection, Metal Roofing	**1,127.59 SF**	**71**	**8,908**	**96,110**		**2,322**		**95.19 /SF**	**107,339**	**140.02 /SF**	**157,882**
					MOA-07.00.001 Metal Roof	**1,127.59 SF**	**71**	**8,908**	**96,110**		**2,322**		**95.19 /SF**	**107,339**	**140.02 /SF**	**157,882**
					07.00 Thermal & Moisture Protection	***1.00* LS**	**142**	**16,535**	**101,861**		**2,440**		**120,835.71 /LS**	**120,836**	**177,274.45 /LS**	**177,274**
					07.0 Thermal and Moisture Protection	***1.00* LS**	**142**	**16,535**	**101,861**		**2,440**		**120,835.71 /LS**	**120,836**	**177,274.45 /LS**	**177,274**
	08.0				**Openings**											
		08.10			**Doors and Frames - Exterior Doors**											
			MOA-08.10.001		**Exterior Doors**											
				08.10.01.10	**Doors and Frames, Hollow Metal**											
					Weatherstripping, doors, wood frame, spring type, brz, 6' x 7' door	2.00 opng	2	249	56	-	-	-	152.53 /opng	305	216.48 /opng	433
					Steel frames, knock down, 14 ga., to 8-3/4" throat, to 6070, pair	2.00 ea	3	291	1,250	-	-	-	770.27 /ea	1,541	1,128.28 /ea	2,257
					Doors, commercial, steel, insulated, full panel, 18 ga., 3'-0" x 7'-0" x 1-3/4" thick	4.00 EA	4	465	2,540	-	-	-	751.21 /EA	3,005	1,102.20 /EA	4,409
					08.10.01.10 Doors and Frames, Hollow Metal	**4.00 EA**	**9**	**1,004**	**3,846**				**1,212.61 /EA**	**4,850**	**1,774.58 /EA**	**7,098**
					MOA-08.10.001 Exterior Doors	**4.00 EA**	**9**	**1,004**	**3,846**				**1,212.61 /EA**	**4,850**	**1,774.58 /EA**	**7,098**
					08.10 Doors and Frames - Exterior Doors	**4.00 EA**	**9**	**1,004**	**3,846**				**1,212.61 /EA**	**4,850**	**1,774.58 /EA**	**7,098**
					08.0 Openings	**4.00 EA**	**9**	**1,004**	**3,846**				**1,212.61 /EA**	**4,850**	**1,774.58 /EA**	**7,098**
	09.0				**Finishes**											
		09.90			**Painting and Coating**											
			09.00.006		**Building Paintings and Coatings**											
				09.00.99.00	**Finishes, Other**											
					HVAC Building Paintings and Coatings Allowancce	1,127.59 SF	43	3,900	6,704	-	536	-	9.88 /SF	11,140	14.32 /SF	16,148
					09.00.99.00 Finishes, Other	**1,127.59 SF**	**43**	**3,900**	**6,704**		**536**		**9.88 /SF**	**11,140**	**14.32 /SF**	**16,148**
					09.00.006 Building Paintings and Coatings	**1,127.59 SF**	**43**	**3,900**	**6,704**		**536**		**9.88 /SF**	**11,140**	**14.32 /SF**	**16,148**
					09.90 Painting and Coating	***1.00* LS**	**43**	**3,900**	**6,704**		**536**		**11,139.83 /LS**	**11,140**	**16,148.13 /LS**	**16,148**
					09.0 Finishes	***1.00* LS**	**43**	**3,900**	**6,704**		**536**		**11,139.83 /LS**	**11,140**	**16,148.13 /LS**	**16,148**
	21.0				**Fire Suppression**											
		21.00			**Fire Sprinkler**											
			21.00.600		**Funk PGP HVAC Building, Fire Suppression**											
				21.00.10.10	**Water-Based Fire-Suppression Systems**											
					HVAC Building Fire Suppression System Allowance	1,127.59 SF				20,297	-	-	18.00 /SF	20,297	22.61 /SF	25,492
					21.00.10.10 Water-Based Fire-Suppression Systems	***1.00* LS**				**20,297**			**20,296.62 /LS**	**20,297**	**25,491.64 /LS**	**25,492**
					21.00.600 Funk PGP HVAC Building, Fire Suppression	**1,127.59 SF**				**20,297**			**18.00 /SF**	**20,297**	**22.61 /SF**	**25,492**
					21.00 Fire Sprinkler	***1.00* LS**				**20,297**			**20,296.62 /LS**	**20,297**	**25,491.64 /LS**	**25,492**
					21.0 Fire Suppression	***1.00* LS**				**20,297**			**20,296.62 /LS**	**20,297**	**25,491.64 /LS**	**25,492**
	23.0				**HVAC**											
		23.00			**HVAC**											
			23.00.00.040		**HVAC Building, HVAC**											
				23.00.02.00	**Mechanical, HVAC**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				23.00.02.00	Mechanical, HVAC											
					HVAC Building, HVAC Allowance	1,127.59 SF				39,466	-	-	35.00 /SF	39,466	43.96 /SF	49,567
					Heat Exchanger	1.00 ea	24	2,743	65,000	-	-	-	67,743.32 /ea	67,743	89,795.06 /ea	89,795
					23.00.02.00 Mechanical, HVAC	1,127.59 SF	24	2,743	65,000	39,466			95.08 /SF	107,209	123.59 /SF	139,362
				23.00.20.10	HVAC, Piping											
					Piping,ductile iron pipe,mechanical joint,fittings,4"diameter	15.00 LF	2	205	1,515	-	15	-	115.67 /LF	1,735	152.59 /LF	2,289
					Piping,ductile iron pipe,mechanical joint,fittings,6"diameter	95.00 LF	17	1,625	11,400	-	117	-	138.33 /LF	13,142	182.44 /LF	17,332
					Piping,ductile iron pipe,mechanical joint,fittings,8"diameter	12.00 LF	3	246	2,028	-	18	-	191.00 /LF	2,292	252.14 /LF	3,026
					Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, 4" diameter	6.00 ea	9	831	1,548	-	-	-	396.47 /ea	2,379	516.65 /ea	3,100
					Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, 6" diameter	28.00 ea	53	4,846	11,480	-	-	-	583.08 /ea	16,326	762.05 /ea	21,337
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 4" diameter	2.00 ea	4	415	1,110	-	-	-	762.64 /ea	1,525	998.07 /ea	1,996
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 6" diameter	12.00 ea	34	3,117	11,580	-	-	-	1,224.72 /ea	14,697	1,608.16 /ea	19,298
					Piping, fitting, wye or tee, ductile iron, mechanical joint, 8" diameter	6.00 ea	24	2,309	8,100	-	166	-	1,762.54 /ea	10,575	2,311.55 /ea	13,869
					Piping, fitting, reducer, ductile iron, mechanical joint, 8" x 6" diameter	1.00 ea	2	235	545	-	17	-	796.99 /ea	797	1,040.50 /ea	1,041
					Piping, fitting, reducer, ductile iron, mechanical joint, 8" x 4" diameter	2.00 ea	5	470	1,090	-	34	-	796.99 /ea	1,594	1,040.50 /ea	2,081
					23.00.20.10 HVAC, Piping	122.00 LF	152	14,300	50,396		366		533.29 /LF	65,062	699.74 /LF	85,368
				23.00.20.20	HVAC, Pumps											
					Functional Testing, Pumps, 5-20 hp	8.00 ea	16	1,687	400	-	-	-	260.87 /ea	2,087	331.26 /ea	2,650
					Align Pump & Motor, 5-20 hp	8.00 ea	24	2,530	-	4,200	-	-	841.30 /ea	6,730	1,056.63 /ea	8,453
					Vibration Testing, Pumps, 5-20 hp	8.00 ea	8	843	-	1,400	-	-	280.43 /ea	2,243	352.21 /ea	2,818
					Sleeved anchor bolts - Small	32.00 ea	10	1,012	384	-	-	-	43.63 /ea	1,396	55.67 /ea	1,781
					Non-Shrink Machine Grout	16.00 cuft	15	1,603	1,184	-	-	-	174.16 /cuft	2,787	224.10 /cuft	3,586
					Grease, Oil, and Lube Pumps, 5-20 hp	8.00 ea	16	1,687	600	-	-	-	285.87 /ea	2,287	364.47 /ea	2,916
					FURNISH Horizontal End-Suction Centrifugal Pump, 7.5 hp	2.00 EA		-	38,000	-	-	-	19,000.00 /EA	38,000	25,240.63 /EA	50,481
					FURNISH Horizontal End-Suction Centrifugal Pump, 5 hp	6.00 EA		-	75,000	-	-	-	12,500.00 /EA	75,000	16,605.69 /EA	99,634
					Set pump assembly, 5 - 20 hp	8.00 ea	256	26,991	200	-	-	-	3,398.86 /ea	27,191	4,270.62 /ea	34,165
					Variable frequency drives, custom-engineered, 460 volt, 5 HP motor size	6.00 ea	86	8,941	26,400	-	-	-	5,890.24 /ea	35,341	7,716.88 /ea	46,301
					Variable frequency drives, custom-engineered, 460 volt, 7.5 HP motor size	2.00 ea	34	3,551	7,450	-	-	-	5,500.61 /ea	11,001	7,178.59 /ea	14,357
					23.00.20.20 HVAC, Pumps	8.00 EA	465	48,846	149,618	5,600			25,508.00 /EA	204,064	33,392.81 /EA	267,142
				23.00.20.45	HVAC, Chemical Treatment/Filtration System											
					Chemical Treatment/Filtration System Allowance, Includes Expansion Tank	1.00 ls	192	21,723	95,000	-	1,600	-	118,322.69 /ls	118,323	155,495.44 /ls	155,495
					23.00.20.45 HVAC, Chemical Treatment/Filtration System	1.00 EA	192	21,723	95,000		1,600		118,322.69 /EA	118,323	155,495.44 /EA	155,495
					23.00.00.040 HVAC Building, HVAC	**1,127.59 SF**	**832**	**87,612**	**360,014**	**45,066**	**1,966**		**438.69 /SF**	**494,657**	**574.12 /SF**	**647,368**
					23.00 HVAC	1.00 LS	832	87,612	360,014	45,066	1,966		494,657.38 /LS	494,657	647,368.32 /LS	647,368
					23.0 HVAC	1.00 LS	832	87,612	360,014	45,066	1,966		494,657.38 /LS	494,657	647,368.32 /LS	647,368
	26.0				Electrical Work											
		26.20			Facility Electrical											
			26.05.GRDG		Facility Grounding											
				26.15.11.00	Process Electrical, Grounding											
					Copper Bus Bar .25"x 3.0"	20.00 lf	5	522	1,058	-	-	-	78.98 /lf	1,580	126.72 /lf	2,534
					Copper Bus Bar Supports	20.00 E	20	2,086	966	-	-	-	152.62 /E	3,052	240.97 /E	4,819
					Ground wire, copper wire, bare stranded, 4/0	35.00 clf	98	10,249	14,700	-	-	-	712.82 /clf	24,949	1,139.57 /clf	39,885
					Exothermic weld	234.00 ea	351	36,615	2,211	-	-	-	165.93 /ea	38,827	258.86 /ea	60,573
					26.15.11.00 Process Electrical, Grounding	1.00 LS	474	49,472	18,935				68,407.19 /LS	68,407	107,811.30 /LS	107,811
					26.05.GRDG Facility Grounding	**1.00 LS**	**474**	**49,472**	**18,935**				**68,407.19 /LS**	**68,407**	**107,811.30 /LS**	**107,811**
			26.25.LTG		Interior Lighting and Control											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	2,600.00 lf	260	27,122	13,390	-	-	-	15.58 /lf	40,512	24.62 /lf	64,006
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	150.00 ea	60	6,259	506	-	-	-	45.10 /ea	6,765	70.41 /ea	10,562
					Outlet boxes, pressed steel, covers, blank, 4" square	150.00 ea	19	1,956	116	-	-	-	13.81 /ea	2,071	21.54 /ea	3,231
					26.00.99.00 Electrical, Other	1.00 LS	339	35,337	14,011				49,348.38 /LS	49,348	77,799.64 /LS	77,800
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	10.00 clf	8	835	205	-	-	-	103.95 /clf	1,040	163.23 /clf	1,632
					26.15.01.00 Process Electrical, Wire/Cable	90.00 clf	66	6,904	1,301				91.17 /clf	8,205	142.90 /clf	12,861
				26.20.03.00	Facility Electrical, Lighting											
					LED Strip Light, hdwe	150.00 ea	211	21,961	16,500	-	-	-	256.41 /ea	38,461	406.94 /ea	61,041
					Emergency ballast, material only, interior, factory installed in fixture	30.00 ea		-	4,560	-	-	-	152.00 /ea	4,560	247.53 /ea	7,426
					Exit lighting, L.E.D. standard, single face, ceiling or wall mount	12.00 ea	12	1,252	840	-	-	-	174.32 /ea	2,092	276.30 /ea	3,316
					Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #14, 6' long	150.00 ea	38	3,912	818	-	-	-	31.53 /ea	4,729	49.45 /ea	7,418
					26.20.03.00 Facility Electrical, Lighting	1.00 LS	260	27,125	22,718				49,842.66 /LS	49,843	79,199.96 /LS	79,200
					26.25.LTG Interior Lighting and Control	**1.00 LS**	**665**	**69,366**	**38,030**				**107,395.93 /LS**	**107,396**	**169,860.35 /LS**	**169,860**
			26.26.EXTLTG		Exterior Lighting and Control											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	350.00 lf	22	2,247	375	-	-	-	7.49 /lf	2,621	11.73 /lf	4,106
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	12.00 ea	5	501	40	-	-	-	45.10 /ea	541	70.41 /ea	845
					Outlet boxes, pressed steel, covers, blank, 4" square	12.00 ea	2	156	9	-	-	-	13.81 /ea	166	21.54 /ea	259
					26.00.99.00 Electrical, Other	1.00 LS	28	2,904	424				3,328.21 /LS	3,328	5,209.30 /LS	5,209
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	12.00 clf	9	910	164	-	-	-	89.57 /clf	1,075	140.36 /clf	1,684
					26.15.01.00 Process Electrical, Wire/Cable	12.00 clf	9	910	164				89.57 /clf	1,075	140.36 /clf	1,684
				26.15.07.00	Lighting											
					LED Area Light	12.00 E	24	2,504	6,000	-	-	-	708.63 /E	8,504	1,138.85 /E	13,666
					Wallpack Photocell	12.00 E	24	2,504	3,600	-	-	-	508.63 /E	6,104	813.16 /E	9,758
					26.15.07.00 Lighting	1.00 LS	48	5,007	9,600				14,607.22 /LS	14,607	23,424.18 /LS	23,424
					26.26.EXTLTG Exterior Lighting and Control	**1.00 LS**	**85**	**8,822**	**10,189**				**19,010.23 /LS**	**19,010**	**30,317.75 /LS**	**30,318**
			26.30.DEV		Device Outlets											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	3,000.00 lf	300	31,295	15,450	-	-	-	15.58 /lf	46,745	24.62 /lf	73,853
					Outlet boxes, cast, 1 gang, FD, 3/4" hub, 2-11/16" deep	36.00 ea	24	2,504	792	-	-	-	91.54 /ea	3,296	144.03 /ea	5,185

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	Electrical, Other											
					Duplex receptacle, grounded, 120 volt, 20 amp	24.00 ea	7	742	256	-	-	-	41.56 /ea	997	65.44 /ea	1,570
					Duplex receptacle, ground fault interrupting, 20 amp	12.00 ea	4	371	540	-	-	-	75.91 /ea	911	121.37 /ea	1,456
					WP cover	12.00 ea	2	167	510	-	-	-	56.41 /ea	677	90.85 /ea	1,090
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**336**	**35,078**	**17,548**				**52,625.93 /LS**	**52,626**	**83,155.76 /LS**	**83,156**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	80.00 clf	58	6,069	1,096	-	-	-	89.57 /clf	7,165	140.36 /clf	11,228
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	20.00 clf	16	1,669	410	-	-	-	103.95 /clf	2,079	163.23 /clf	3,265
					26.15.01.00 Process Electrical, Wire/Cable	**100.00 clf**	**74**	**7,738**	**1,506**				**92.44 /clf**	**9,244**	**144.93 /clf**	**14,493**
					26.30.DEV Device Outlets	***1.00*** **LS**	**410**	**42,817**	**19,054**				**61,870.35 /LS**	**61,870**	**97,648.83 /LS**	**97,649**
			26.40.EQCON		**Facility Equipment Connections and Controls**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	300.00 lf	18	1,926	321	-	-	-	7.49 /lf	2,247	11.73 /lf	3,519
					Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	14	1,451	360	-	-	-	9.06 /lf	1,811	14.22 /lf	2,845
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 5 HP motor	4.00 ea	4	417	25	-	-	-	110.67 /ea	443	172.66 /ea	691
					Motor connections, flexible conduit and fittings, 3 phase, 460 volt, 10 HP motor	2.00 ea	2	209	13	-	-	-	110.67 /ea	221	172.66 /ea	345
					Motor connections, flexible conduit and fittings, 3 phase, sealtite, 460 volt, 10 HP motor	2.00 ea	2	209	19	-	-	-	113.62 /ea	227	177.45 /ea	355
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**40**	**4,212**	**738**				**4,949.45 /LS**	**4,949**	**7,754.61 /LS**	**7,755**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	4.50 clf	3	341	62	-	-	-	89.57 /clf	403	140.35 /clf	632
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	9.00 clf	7	751	185	-	-	-	103.95 /clf	936	163.24 /clf	1,469
					Wire, copper, stranded, 600 volt, #8, type XHHW, in raceway	13.00 clf	13	1,356	442	-	-	-	138.32 /clf	1,798	217.68 /clf	2,830
					26.15.01.00 Process Electrical, Wire/Cable	**26.50 clf**	**23**	**2,449**	**688**				**118.37 /clf**	**3,137**	**186.06 /clf**	**4,931**
				26.20.05.00	Facility Electrical, HVAC											
					HVAC controls - electrical contractor scope	1.00 LS			3,500	-	-	-	3,500.00 /LS	3,500	5,699.59 /LS	5,700
					26.20.05.00 Facility Electrical, HVAC	***1.00*** **LS**			**3,500**				**3,500.00 /LS**	**3,500**	**5,699.59 /LS**	**5,700**
					26.40.EQCON Facility Equipment Connections and Controls	***1.00*** **LS**	**64**	**6,660**	**4,926**				**11,586.20 /LS**	**11,586**	**18,384.73 /LS**	**18,385**
			26.90.LPS		**Facility Lightning Protection System**											
				26.00.99.00	Electrical, Other											
					Electrical startup, FAT, demonstration, documentation, testing, commissioning	16.00 hr	16	1,669	800	-	400	-	179.32 /hr	2,869	282.63 /hr	4,522
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,669**	**800**		**400**		**2,869.07 /LS**	**2,869**	**4,522.15 /LS**	**4,522**
				26.15.10.00	Process Electrical, Lightning Protection											
					Air terminal and base, copper, 3/8" dia x 10", to 75' h	50.00 ea	50	5,216	1,300	-	-	-	130.32 /ea	6,516	204.65 /ea	10,233
					Lightning protection cable, copper, 220 lb per thousand feet, to 75' h	1,650.00 lf	41	4,303	5,247	-	-	-	5.79 /lf	9,550	9.24 /lf	15,240
					LPS design and certification, misc mat and labor	1.00 LS	35	3,651	5,000	5,000	-	-	13,651.10 /LS	13,651	20,102.99 /LS	20,103
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**126**	**13,170**	**11,547**	**5,000**			**29,717.03 /LS**	**29,717**	**45,575.50 /LS**	**45,576**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**142**	**14,839**	**12,347**	**5,000**	**400**		**32,586.10 /LS**	**32,586**	**50,097.65 /LS**	**50,098**
					26.20 Facility Electrical	***1.00*** **LS**	**1,840**	**191,976**	**103,480**	**5,000**	**400**		**300,856.00 /LS**	**300,856**	**474,120.61 /LS**	**474,121**
		26.25			Electrical Equipment											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	40.00 lf	4	371	138	-	-	-	12.73 /lf	509	20.06 /lf	802
					Flexible metallic conduit, steel, 1-1/2" diameter	3.00 lf	0	50	8	-	-	-	19.24 /lf	58	30.12 /lf	90
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.72 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	1.00 ea	0	26	25	-	-	-	50.58 /ea	51	80.49 /ea	80
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.80 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	1.00 ea	0	36	46	-	-	-	82.28 /ea	82	131.35 /ea	131
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.24 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	20	2,086	2,125	-	-	-	4,211.34 /ea	4,211	6,706.72 /ea	6,707
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,354.88 /ea	11,355
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,064.76 /ea	13,065
					Uninterruptible power supply, charger, inverter, and alarm 1 phase, 120 V, 5 kVA, incl 10 minutes battery	1.00 ea	48	5,325	7,100	-	492	-	12,916.86 /ea	12,917	20,612.80 /ea	20,613
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**131**	**14,001**	**18,844**		**492**		**33,336.98 /LS**	**33,337**	**53,237.05 /LS**	**53,237**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	0.25 clf	0	32	14	-	-	-	182.92 /clf	46	288.60 /clf	72
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	0.15 clf	0	24	12	-	-	-	235.00 /clf	35	371.20 /clf	56
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	1.00 clf	2	209	159	-	-	-	367.63 /clf	368	583.55 /clf	584
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	0.60 clf	2	228	231	-	-	-	764.33 /clf	459	1,217.18 /clf	730
					26.15.01.00 Process Electrical, Wire/Cable	**2.00 clf**	**5**	**492**	**415**				**453.61 /clf**	**907**	**720.85 /clf**	**1,442**
				26.25.06.00	Transformers, Dry Type											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 30 kVA	1.00 EA	18	1,855	1,800	-	-	-	3,654.52 /EA	3,655	5,816.77 /EA	5,817
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**18**	**1,855**	**1,800**				**3,654.52 /EA**	**3,655**	**5,816.77 /EA**	**5,817**
					26.20.DIST Electrical Distribution Equipment	***1.00*** **LS**	**153**	**16,347**	**21,060**		**492**		**37,898.71 /LS**	**37,899**	**60,495.51 /LS**	**60,496**
					26.25 Electrical Equipment	***1.00*** **LS**	**153**	**16,347**	**21,060**		**492**		**37,898.71 /LS**	**37,899**	**60,495.51 /LS**	**60,496**
					26.0 Electrical Work	***1.00*** **LS**	**1,994**	**208,323**	**124,539**	**5,000**	**892**		**338,754.71 /LS**	**338,755**	**534,616.12 /LS**	**534,616**
	27.0				Telecommunications - Network											
		27.00			Telecommunications											
			27.10.COMEQ		**Communications Room Equipment**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	200.00 lf	12	1,284	214	-	-	-	7.49 /lf	1,498	11.73 /lf	2,346
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	4.00 ea	2	167	13	-	-	-	45.10 /ea	180	70.41 /ea	282
					Outlet boxes, pressed steel, covers, blank, 4" square	4.00 ea	1	52	3	-	-	-	13.81 /ea	55	21.55 /ea	86
					Duplex receptacle, grounded, 120 volt, 20 amp	4.00 ea	1	124	43	-	-	-	41.56 /ea	166	65.43 /ea	262
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**16**	**1,627**	**273**				**1,899.76 /LS**	**1,900**	**2,975.73 /LS**	**2,976**
				26.15.01.00	Process Electrical, Wire/Cable											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.01.00	Process Electrical, Wire/Cable											
					Closet Distribution Frame (CDF), 7 feet tall, 19 inches wide	1.00 E	16	1,681	2,500	-	-	-	4,181.04 /E	4,181	6,686.77 /E	6,687
					Network Equipment Allowance	1.00 LS	200	21,018	80,000	-	-	-	101,018.20 /LS	101,018	162,979.75 /LS	162,980
					Wire, copper, stranded, 600 volt, #12, type XHHW, in raceway	6.50 clf	5	493	89	-	-	-	89.57 /clf	582	140.35 /clf	912
					26.15.01.00 Process Electrical, Wire/Cable	**6.50 clf**	**221**	**23,192**	**82,589**				**16,274.06 /clf**	**105,781**	**26,242.90 /clf**	**170,579**
				26.15.03.00	Process Electrical, Cable Tray											
					Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 12" wide, to 15' elevation, incl fittings & supports	30.00 LF	6	582	539	-	-	-	37.36 /LF	1,121	59.43 /LF	1,783
					26.15.03.00 Process Electrical, Cable Tray	**30.00 LF**	**6**	**582**	**539**				**37.36 /LF**	**1,121**	**59.43 /LF**	**1,783**
					27.10.COMEQ Communications Room Equipment	***1.00*** **LS**	**242**	**25,401**	**83,401**				**108,801.91 /LS**	**108,802**	**175,337.40 /LS**	**175,337**
			27.31.COMCDT		**Comm Conduit to MH/HH**											
				26.10.02.00	Site Electrical, Buried Conduit											
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	0.90 ton	11	1,248	1,350	-	-	-	2,886.69 /ton	2,598	4,600.31 /ton	4,140
					Elctrcl undrgrn ducts and manhols,undrgrn duct banks ready for concrete fill,pvc,type eb,2 @ 4"dm,excludes excavation,backfill and cast place concrete	800.00 LF	80	8,345	2,976	-	-	-	14.15 /LF	11,321	22.29 /LF	17,831
					26.10.02.00 Site Electrical, Buried Conduit	**800.00 LF**	**91**	**9,593**	**4,326**				**17.40 /LF**	**13,919**	**27.46 /LF**	**21,972**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	130.00 clf	80	8,345	1,261	-	-	-	73.90 /clf	9,606	115.68 /clf	15,038
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 2 conductor	130.00 clf	149	15,499	3,900	-	-	-	149.22 /clf	19,399	234.35 /clf	30,466
					26.15.01.00 Process Electrical, Wire/Cable	**260.00 clf**	**229**	**23,844**	**5,161**				**111.56 /clf**	**29,005**	**175.02 /clf**	**45,504**
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, copper wire, bare stranded, 4/0	1.55 clf	4	452	649	-	-	-	712.82 /clf	1,101	1,139.56 /clf	1,761
					Water pipe ground clamps, heavy duty, bronze, 1-1/4" to 2" diameter	1.50 ea	2	156	47	-	-	-	135.32 /ea	203	212.80 /ea	319
					26.15.11.00 Process Electrical, Grounding	***1.00*** **LS**	**6**	**609**	**695**				**1,304.29 /LS**	**1,304**	**2,079.82 /LS**	**2,080**
					27.31.COMCDT Comm Conduit to MH/HH	***1.00*** **LS**	**325**	**34,046**	**10,182**				**44,228.56 /LS**	**44,229**	**69,555.85 /LS**	**69,556**
					27.00 Telecommunications	***1.00*** **LS**	**567**	**59,447**	**93,583**				**153,030.47 /LS**	**153,030**	**244,893.25 /LS**	**244,893**
					27.0 Telecommunications - Network	***1.00*** **LS**	**567**	**59,447**	**93,583**				**153,030.47 /LS**	**153,030**	**244,893.25 /LS**	**244,893**
	28.0				Electronic Safety and Security											
		28.00			Electronic Safety and Security											
			28.10.FA		**Fire Alarm System**											
				26.00.99.00	Electrical, Other											
					Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,820.00 lf	112	11,684	1,947	-	-	-	7.49 /lf	13,631	11.73 /lf	21,350
					Outlet boxes, pressed steel, 4" square, 2-1/8" deep, 1" KO	60.00 ea	24	2,504	202	-	-	-	45.10 /ea	2,706	70.41 /ea	4,225
					Outlet boxes, pressed steel, covers, blank, 4" square	8.00 ea	1	104	6	-	-	-	13.81 /ea	110	21.54 /ea	172
					Outlet boxes, pressed steel, plaster rings, 4" square, concealed	52.00 ea	7	678	86	-	-	-	14.70 /ea	764	22.99 /ea	1,196
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**144**	**14,970**	**2,242**				**17,211.58 /LS**	**17,212**	**26,943.00 /LS**	**26,943**
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #14, type XHHW, in raceway	300.00 clf	185	19,259	2,910	-	-	-	73.90 /clf	22,169	115.68 /clf	34,704
					26.15.01.00 Process Electrical, Wire/Cable	**300.00 clf**	**185**	**19,259**	**2,910**				**73.90 /clf**	**22,169**	**115.68 /clf**	**34,704**
					28.10.FA Fire Alarm System	***1.00*** **LS**	**328**	**34,228**	**5,152**				**39,380.10 /LS**	**39,380**	**61,647.19 /LS**	**61,647**
			28.20.CCTV		**Closed Circuit TV and Cameras**											
				28.35.01.00	Electronic Safety and Security											
					Camera allowance (licenses, circuit, startup, CX)	1.00 LS	200	20,863	10,000	10,000	-	-	40,863.40 /LS	40,863	61,306.60 /LS	61,307
					28.35.01.00 Electronic Safety and Security	***1.00*** **LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,306.60 /LS**	**61,307**
					28.20.CCTV Closed Circuit TV and Cameras	***1.00*** **LS**	**200**	**20,863**	**10,000**	**10,000**			**40,863.40 /LS**	**40,863**	**61,306.60 /LS**	**61,307**
					28.00 Electronic Safety and Security	***1.00*** **LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**122,953.79 /LS**	**122,954**
					28.0 Electronic Safety and Security	**1.00 LS**	**528**	**55,091**	**15,152**	**10,000**			**80,243.50 /LS**	**80,244**	**122,953.79 /LS**	**122,954**
					2271 TRR PGP HVAC Building	***1.00*** **LS**	**4,805**	**501,791**	**751,258**	**84,117**	**5,974**		**1,343,140.45 /LS**	**1,343,140**	**1,948,654.58 /LS**	**1,948,655**
2275					**TRR PGP Energy Dissipation Structure**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.08.000		**Foundation Slabs**											
				03.10.05.24	Cast-In-Place Concrete, Slabs on Grade, 24" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	510.00 sfca	47	4,871	1,209	-	-	-	11.92 /sfca	6,080	17.53 /sfca	8,939
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	10.70 ton	171	20,031	16,050	-	-	-	3,372.03 /ton	36,081	5,018.28 /ton	53,696
					Reinforcing in place, unloading & sorting, add to above - slabs	10.70 ton	6	714	-	-	248	-	89.94 /ton	962	130.95 /ton	1,401
					Reinforcing in place, crane cost for handling, add to above, slabs	10.70 ton	7	776	-	-	270	-	97.76 /ton	1,046	142.34 /ton	1,523
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	126.00 cy		-	27,720	-	-	-	220.00 /cy	27,720	336.26 /cy	42,369
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	122.00 CY	42	4,041	-	-	595	-	38.00 /CY	4,636	55.32 /CY	6,749
					Concrete finishng,floors,basic finishng for unspecfd flatwork,bull float,manual float&manual steel trowel,excludes placing,striking off&consolidating	1,638.50 sf	31	2,836	-	-	-	-	1.73 /sf	2,836	2.52 /sf	4,129
					Curing, sprayed membrane curing compound	16.39 csf	3	251	262	-	-	-	31.33 /csf	513	46.77 /csf	767
					Fine grading, fine grade for slab on grade, machine	182.06 sy	3	303	-	-	195	-	2.73 /sy	497	3.98 /sy	724
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	**122.00 CY**	**309**	**33,823**	**45,241**		**1,307**		**658.78 /CY**	**80,371**	**986.04 /CY**	**120,297**
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	903.00 sfca	83	8,624	2,140	-	-	-	11.92 /sfca	10,764	17.53 /sfca	15,828
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	39.80 ton	637	74,507	59,700	-	-	-	3,372.03 /ton	134,207	5,018.28 /ton	199,727
					Reinforcing in place, unloading & sorting, add to above - slabs	39.80 ton	22	2,657	-	-	923	-	89.94 /ton	3,580	130.95 /ton	5,212
					Reinforcing in place, crane cost for handling, add to above, slabs	39.80 ton	24	2,888	-	-	1,003	-	97.76 /ton	3,891	142.34 /ton	5,665
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	468.00 cy		-	102,960	-	-	-	220.00 /cy	102,960	336.26 /cy	157,370
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	454.00 CY	157	15,038	-	-	2,212	-	38.00 /CY	17,251	55.32 /CY	25,116
					Concrete finishng,floors,basic finishng for unspecfd flatwork,bull float,manual float&manual steel trowel,excludes placing,striking off&consolidating	4,082.50 sf	77	7,066	-	-	-	-	1.73 /sf	7,066	2.52 /sf	10,288

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					Curing, sprayed membrane curing compound	40.83 csf	7	626	653	-	-	-	31.33 /csf	1,279	46.77 /csf	1,909
					Fine grading, fine grade for slab on grade, machine	453.61 sy	7	754	-	-	485	-	2.73 /sy	1,239	3.98 /sy	1,804
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	**454.00 CY**	**1,014**	**112,160**	**165,453**		**4,624**		**621.67 /CY**	**282,237**	**931.54 /CY**	**422,919**
					03.08.000 Foundation Slabs	**576.00 CY**	**1,323**	**145,983**	**210,694**		**5,931**		**629.53 /CY**	**362,608**	**943.08 /CY**	**543,216**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**576.00 CY**	**1,323**	**145,983**	**210,694**		**5,931**		**629.53 /CY**	**362,608**	**943.08 /CY**	**543,216**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			03.08.002		**Concrete Walls**											
				03.10.06.24	**Cast-In-Place Concrete, Straight Walls, 24" thick**											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	3,120.00 sfca	329	35,073	17,004	-	-	-	16.69 /sfca	52,077	24.70 /sfca	77,054
					Form oil, coverage varies greatly, maximum, includes material only	8.32 gal		-	229	-	-	-	27.50 /gal	229	42.03 /gal	350
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	10.15 ton	162	19,001	15,225	-	-	-	3,372.03 /ton	34,226	5,018.28 /ton	50,936
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	10.15 ton	6	678	-	-	235	-	89.94 /ton	913	130.95 /ton	1,329
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	10.15 ton	6	736	-	-	256	-	97.77 /ton	992	142.34 /ton	1,445
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	120.00 cy		-	26,400	-	-	-	220.00 /cy	26,400	336.26 /cy	40,351
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	116.00 CY	62	5,924	-	-	871	-	58.58 /CY	6,795	85.29 /CY	9,893
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	3,120.00 sf	55	5,066	94	-	-	-	1.65 /sf	5,160	2.41 /sf	7,520
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	**116.00 CY**	**621**	**66,478**	**58,951**		**1,363**		**1,093.04 /CY**	**126,792**	**1,628.26 /CY**	**188,878**
				03.10.06.36	**Cast-In-Place Concrete, Straight Walls, 36" thick**											
					C.I.P. concrete forms, wall, box out for opening, includes erecting, bracing, stripping and cleaning	378.00 lf	65	6,905	6,804	-	-	-	36.27 /lf	13,709	54.11 /lf	20,453
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	22,506.00 sfca	2,374	252,997	122,658	-	-	-	16.69 /sfca	375,655	24.70 /sfca	555,830
					Form oil, coverage varies greatly, maximum, includes material only	60.02 gal		-	1,650	-	-	-	27.50 /gal	1,650	42.03 /gal	2,523
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	175.00 ton	2,800	327,606	262,500	-	-	-	3,372.03 /ton	590,106	5,018.28 /ton	878,198
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	175.00 ton	98	11,682	-	-	4,058	-	89.94 /ton	15,740	130.95 /ton	22,917
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	175.00 ton	107	12,698	-	-	4,411	-	97.76 /ton	17,109	142.34 /ton	24,910
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	2,403.00 cy		-	528,660	-	-	-	220.00 /cy	528,660	336.26 /cy	808,033
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	2,333.00 CY	1,244	119,137	-	-	17,527	-	58.58 /CY	136,664	85.29 /CY	198,977
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	20,989.00 sf	373	34,083	630	-	-	-	1.65 /sf	34,713	2.41 /sf	50,586
					Bulkhead Embeds	16.00 ea	128	15,993	19,200	-	2,401	-	2,349.62 /ea	37,594	3,507.93 /ea	56,127
					1/2" thick SST Wear Plates, Embeded in Concrete Wall Bases	3,008.00 sf	376	46,979	376,000	-	1,763	-	141.20 /sf	424,742	214.65 /sf	645,666
					03.10.06.36 Cast-In-Place Concrete, Straight Walls, 36" thick	**2,333.00 CY**	**7,565**	**828,081**	**1,318,102**		**30,160**		**932.85 /CY**	**2,176,342**	**1,399.15 /CY**	**3,264,219**
					03.08.002 Concrete Walls	**2,449.00 CY**	**8,186**	**894,559**	**1,377,053**		**31,522**		**940.44 /CY**	**2,303,135**	**1,410.00 /CY**	**3,453,096**
					03.20 Cast-In-Place Concrete, Straight Walls	**2,449.00 CY**	**8,186**	**894,559**	**1,377,053**		**31,522**		**940.44 /CY**	**2,303,135**	**1,410.00 /CY**	**3,453,096**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			03.08.004		**Elevated Concrete Deck**											
				03.10.10.30	**Cast-In-Place Concrete, Elevated Decks, 30" thick**											
					Slab shoring	22,723.00 cf	159	17,233	1,136	-	-	-	0.81 /cf	18,369	1.18 /cf	26,827
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	745.00 sf	64	6,805	1,937	-	-	-	11.73 /sf	8,742	17.27 /sf	12,868
					C.I.P. concrete forms, elevated slab, edge forms, to 6" high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	123.00 lf	8	822	74	-	-	-	7.29 /lf	896	10.65 /lf	1,310
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	6.00 ton	96	11,232	9,000	-	-	-	3,372.03 /ton	20,232	5,018.28 /ton	30,110
					Reinforcing in place, unloading & sorting, add to above - decks	6.00 ton	3	401	-	-	139	-	89.94 /ton	540	130.96 /ton	786
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	71.00 cy		-	15,620	-	-	-	220.00 /cy	15,620	336.26 /cy	23,874
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	69.00 CY	25	2,349	-	-	346	-	39.05 /CY	2,695	56.86 /CY	3,923
					Finishing elev. slabs, manual screed, bull float, machine float & trowel	745.00 sf	10	951	-	-	38	-	1.33 /sf	989	1.93 /sf	1,440
					Curing, sprayed membrane curing compound, elevated decks	7.45 csf	1	114	119	-	-	-	31.33 /csf	233	46.77 /csf	348
					03.10.10.30 Cast-In-Place Concrete, Elevated Decks, 30" thick	**69.00 CY**	**366**	**39,907**	**27,886**		**523**		**990.08 /CY**	**68,316**	**1,470.82 /CY**	**101,486**
					03.08.004 Elevated Concrete Deck	**69.00 CY**	**366**	**39,907**	**27,886**		**523**		**990.08 /CY**	**68,316**	**1,470.82 /CY**	**101,486**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**69.00 CY**	**366**	**39,907**	**27,886**		**523**		**990.08 /CY**	**68,316**	**1,470.82 /CY**	**101,486**
					03.0 Concrete Work	**3,094.00 CY**	**9,875**	**1,080,449**	**1,615,634**		**37,976**		**883.66 /CY**	**2,734,058**	**1,324.43 /CY**	**4,097,799**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.000		**Hand Railing**											
				05.50.04.10	**Metals, Pipe and Tube Railings**											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	346.00 LF	69	8,646	21,625	-	325	-	88.43 /LF	30,596	128.86 /LF	44,584
					24" Self Closing Gate	5.00 ea	40	4,998	4,250	-	188	-	1,887.07 /ea	9,435	2,714.76 /ea	13,574
					05.50.04.10 Metals, Pipe and Tube Railings	**346.00 LF**	**109**	**13,644**	**25,875**		**512**		**115.70 /LF**	**40,031**	**168.09 /LF**	**58,158**
					05.00.000 Hand Railing	**346.00 LF**	**109**	**13,644**	**25,875**		**512**		**115.70 /LF**	**40,031**	**168.09 /LF**	**58,158**
			05.00.002		**Ladders**											
				05.50.03.20	**Metal Ladders, Steel w/o Cage**											
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage	60.00 LF	57	7,108	7,200	-	267	-	242.91 /LF	14,575	350.23 /LF	21,014
					05.50.03.20 Metal Ladders, Steel w/o Cage	**60.00 LF**	**57**	**7,108**	**7,200**		**267**		**242.91 /LF**	**14,575**	**350.23 /LF**	**21,014**
					05.00.002 Ladders	***1.00* EA**	**57**	**7,108**	**7,200**		**267**		**14,574.81 /EA**	**14,575**	**21,013.52 /EA**	**21,014**
			05.00.004		**Metal Grating**											
				05.50.05.00	**Metals, Gratings**											
					Structural steel member, W12x26, A992 steel, shop fabricated, incl shop primer, bolted connections	270.00 lf	17	2,135	12,690	-	842	-	58.02 /lf	15,666	84.99 /lf	22,946
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	1,605.00 SF	334	41,434	85,065	-	28,592	-	96.63 /SF	155,091	139.70 /SF	224,218
					Miscellaneous Bridging and Bracing	1.00 ls				15,000	-	-	15,000.00 /ls	15,000	18,839.33 /ls	18,839
					05.50.05.00 Metals, Gratings	**1,605.00 SF**	**351**	**43,569**	**97,755**	**15,000**	**29,434**		**115.74 /SF**	**185,758**	**165.73 /SF**	**266,004**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					05.00.004 Metal Grating	**1,605.00 SF**	**351**	**43,569**	**97,755**	**15,000**	**29,434**		**115.74 /SF**	**185,758**	**165.73 /SF**	**266,004**
					05.00 Metals	***1.00* LS**	**517**	**64,321**	**130,830**	**15,000**	**30,213**		**240,363.29 /LS**	**240,363**	**345,175.09 /LS**	**345,175**
					05.0 Metals	***1.00* LS**	**517**	**64,321**	**130,830**	**15,000**	**30,213**		**240,363.29 /LS**	**240,363**	**345,175.09 /LS**	**345,175**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Lghting - interior/exterior	1.00 LS	35	3,651	5,000	40,000	-	-	48,651.10 /LS	48,651	64,061.42 /LS	64,061
					Instrumentation connections	1.00 LS	35	3,651	5,000	20,000	-	-	28,651.10 /LS	28,651	38,942.31 /LS	38,942
					Elec Distribution and Fac Circuits	1.00 LS	35	3,651	5,000	50,000	-	-	58,651.10 /LS	58,651	76,620.96 /LS	76,621
					Receptacles	1.00 LS	35	3,651	5,000	10,000	-	-	18,651.10 /LS	18,651	26,382.76 /LS	26,383
					Grounding/LPS	1.00 LS	35	3,651	5,000	25,000	-	-	33,651.10 /LS	33,651	45,222.08 /LS	45,222
					26.15.10.00 Process Electrical, Lightning Protection	***1.00* LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,229.53 /LS**	**251,230**
					26.90.LPS Facility Lightning Protection System	***1.00* LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,229.53 /LS**	**251,230**
					26.20 Facility Electrical	***1.00* LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,229.53 /LS**	**251,230**
					26.0 Electrical Work	***1.00* LS**	**175**	**18,256**	**25,000**	**145,000**			**188,255.50 /LS**	**188,256**	**251,229.53 /LS**	**251,230**
	31.0				**Earthwork**											
		31.25			**Earthworks, Structural**											
			31.00.000		**Structural Earthworks**											
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, trench or continuous footing, common earth, 3/4 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	40,000.00 CY	3,902	431,651	-	-	227,723	-	16.48 /CY	659,374	20.70 /CY	828,144
					Stockpile Excavated Spoils	40,000.00 cy	1,171	133,097		-	118,061	-	6.28 /cy	251,159	7.89 /cy	315,444
					31.25.01.00 Earthworks, Structural, Excavation	**40,000.00 CY**	**5,073**	**564,748**			**345,784**		**22.76 /CY**	**910,532**	**28.59 /CY**	**1,143,587**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	1,060.00 CY	231	22,439	47,170	-	1,413	-	67.00 /CY	71,022	87.38 /CY	92,620
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**1,060.00 CY**	**231**	**22,439**	**47,170**		**1,413**		**67.00 /CY**	**71,022**	**87.38 /CY**	**92,620**
				31.25.03.00	**Earthworks, Structural, Backfill**											
					Fill, from stockpile, 130 H.P., 2-1/2 C.Y., 300' haul, spread fill, with front-end loader, excludes compaction	17,000.00 CY	291	33,132	-	-	31,154	-	3.78 /CY	64,286	4.75 /CY	80,741
					Fill from Stockpile	17,000.00 cy	498	56,566		-	50,176	-	6.28 /cy	106,742	7.89 /cy	134,064
					31.25.03.00 Earthworks, Structural, Backfill	**17,000.00 CY**	**789**	**89,698**			**81,331**		**10.06 /CY**	**171,029**	**12.64 /CY**	**214,804**
				31.25.03.10	**Earthworks, Structural, Compaction**											
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	17,000.00 CY	291	33,132	-	-	18,961	-	3.06 /CY	52,093	3.85 /CY	65,426
					Compaction, water for, 3000 gallon truck, 3 mile haul	17,000.00 cy	144	16,151	20,230	-	8,387	-	2.63 /cy	44,768	3.39 /cy	57,693
					31.25.03.10 Earthworks, Structural, Compaction	**17,000.00 CY**	**435**	**49,283**	**20,230**		**27,348**		**5.70 /CY**	**96,861**	**7.24 /CY**	**123,119**
					31.00.000 Structural Earthworks	**75,060.00 CY**	**6,529**	**726,169**	**67,400**		**455,875**		**16.65 /CY**	**1,249,444**	**20.97 /CY**	**1,574,131**
					31.25 Earthworks, Structural	**75,060.00 CY**	**6,529**	**726,169**	**67,400**		**455,875**		**16.65 /CY**	**1,249,444**	**20.97 /CY**	**1,574,131**
					31.0 Earthwork	***1.00* LS**	**6,529**	**726,169**	**67,400**		**455,875**		**1,249,443.53 /LS**	**1,249,444**	**1,574,131.07 /LS**	**1,574,131**
	40.0				**Process Pipe**											
		40.11			**Process Pipe, Carbon Steel**											
			40.00.200		**Piping and Appurtenances**											
				40.00.99.01	**Process Pipe, Other**											
					Air / VAC Valve, Includes Piping and Valving	4.00 ea	96	11,018	40,000	-	-	-	12,754.51 /ea	51,018	16,744.08 /ea	66,976
					Sump Pump and Piping Allowance	2.00 ea	32	3,673	10,000	-	-	-	6,836.34 /ea	13,673	8,948.63 /ea	17,897
					Wall Pipe, CS, PExPE, 48"	8.00 ea	320	36,727	96,000	-	4,160	-	17,110.84 /ea	136,887	22,360.44 /ea	178,884
					Gate valve, iron body, Flgd, 150#, HWO, 4"	4.00 ea	8	905	1,000	-	-	-	476.28 /ea	1,905	616.31 /ea	2,465
					Butterfly valve, iron body, Flgd, 150#, HWO, 4"	4.00 ea	8	905	2,000	-	-	-	726.28 /ea	2,905	948.42 /ea	3,794
					48 x 42 Vertical Sleeve Valve	4.00 ea	960	108,613	2,948,000	-	4,800	-	765,353.36 /ea	3,061,413	1,014,681.71 /ea	4,058,727
					48" Dismantling Joing	8.00 ea	192	21,723	205,600	-	4,800	-	29,015.34 /ea	232,123	38,305.20 /ea	306,442
					Butterfly valve, iron body, Flgd, MTR OPER, 250#, 48"	4.00 ea	192	21,723	135,896	-	4,800	-	40,604.67 /ea	162,419	53,460.75 /ea	213,843
					4" Bypass Piping Fittings and Appurtenances	56.00 LF	78	8,168	4,760	-	3,337	-	290.44 /LF	16,264	370.94 /LF	20,773
					Miseellaneous Items and Appurtenances Allowance	1.00 ls		82,500	92,500	-	10,000	-	185,000.00 /ls	185,000	239,057.86 /ls	239,058
					40.00.99.01 Process Pipe, Other	***1.00* LS**	**1,886**	**295,954**	**3,535,756**		**31,897**		**3,863,606.91 /LS**	**3,863,607**	**5,108,857.86 /LS**	**5,108,858**
					40.00.200 Piping and Appurtenances	***1.00* LS**	**1,886**	**295,954**	**3,535,756**		**31,897**		**3,863,606.91 /LS**	**3,863,607**	**5,108,857.86 /LS**	**5,108,858**
					40.11 Process Pipe, Carbon Steel	**56.00 LF**	**1,886**	**295,954**	**3,535,756**		**31,897**		**68,992.98 /LF**	**3,863,607**	**91,229.60 /LF**	**5,108,858**
					40.0 Process Pipe	**56.00 LF**	**1,886**	**295,954**	**3,535,756**		**31,897**		**68,992.98 /LF**	**3,863,607**	**91,229.60 /LF**	**5,108,858**
					2275 TRR PGP Energy Dissipation Structure	***1.00* LS**	**18,983**	**2,185,148**	**5,374,620**	**160,000**	**555,960**		**8,275,727.50 /LS**	**8,275,728**	**11,377,192.18 /LS**	**11,377,192**
2280					**TRR PGP Fire Water Tank**											
	03.0				**Concrete Work**											
		03.13			**Cast-In-Place Concrete, Continuous Footings**											
			MOA-03.00.002		**3'-0" wide, 30" thick Curved Continuous Footing**											
				03.10.02.30	**Cast-In-Place Concrete, Continuous Footings, 30" thick**											
					Fine grade, for slab on grade, by hand	696.00 sf	5	440	21	-	-	-	0.66 /sf	461	0.97 /sf	673
					Fill, gravel subbase, under building slab on grade	12.89 cy	6	583	361	-	-	-	73.19 /cy	943	108.60 /cy	1,400
					Concrete pumping, subcontract, all inclusive price	65.00 cy		-	-	1,625	-	-	25.00 /cy	1,625	36.40 /cy	2,366
					Forms in place, continuous footing, sides	1,160.00 sf	116	12,568	1,160	-	-	-	11.83 /sf	13,728	17.30 /sf	20,071
					Concrete, ready mix, 4500 psi	65.00 CY		-	14,300	-	-	-	220.00 /CY	14,300	336.26 /CY	21,857
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.26 /cy	673
					Placing concrete, concrete pump	65.00 cy	95	8,565	-	-	-	-	131.77 /cy	8,565	191.85 /cy	12,470
					Finishing footings, screed finish	696.00 sf	10	954	-	-	-	-	1.37 /sf	954	1.99 /sf	1,388
					Curing, membrane spray	696.00 sf	1	126	28	-	-	-	0.22 /sf	154	0.32 /sf	226
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.75 ton	92	10,764	8,625	-	-	-	3,372.03 /ton	19,389	5,018.27 /ton	28,855
					Reinforcing in place, unloading & sorting, add to above - slabs	5.75 ton	3	384	-	-	133	-	89.94 /ton	517	130.96 /ton	753
					03.10.02.30 Cast-In-Place Concrete, Continuous Footings, 30" thick	**65.00 CY**	**329**	**34,383**	**24,935**	**1,625**	**133**		**939.63 /CY**	**61,076**	**1,395.87 /CY**	**90,731**
					MOA-03.00.002 3'-0" wide, 30" thick Curved Continuous Footing	**65.00 CY**	**329**	**34,383**	**24,935**	**1,625**	**133**		**939.63 /CY**	**61,076**	**1,395.87 /CY**	**90,731**
					03.13 Cast-In-Place Concrete, Continuous Footings	**65.00 CY**	**329**	**34,383**	**24,935**	**1,625**	**133**		**939.63 /CY**	**61,076**	**1,395.87 /CY**	**90,731**
					03.0 Concrete Work	**65.00 CY**	**329**	**34,383**	**24,935**	**1,625**	**133**		**939.63 /CY**	**61,076**	**1,395.87 /CY**	**90,731**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.10.00	Process Electrical, Lightning Protection											
					Grounding/LPS	1.00 LS	35	3,651	5,000	25,000	-	-	33,651.10 /LS	33,651	45,222.09 /LS	45,222
					26.15.10.00 Process Electrical, Lightning Protection	1.00 LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,222.09 /LS	45,222
					26.90.LPS Facility Lightning Protection System	1.00 LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,222.09 /LS	45,222
					26.20 Facility Electrical	1.00 LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,222.09 /LS	45,222
					26.0 Electrical Work	1.00 LS	35	3,651	5,000	25,000			33,651.10 /LS	33,651	45,222.09 /LS	45,222
	31.0				Earthwork											
		31.25			Earthworks, Structural											
			31.25.00.0010		Structural Earthworks											
				31.25.01.00	Earthworks, Structural, Excavation											
					Excavating, continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	82.00 CY	7	709	-	-	150	-	10.47 /CY	858	13.14 /CY	1,078
					31.25.01.00 Earthworks, Structural, Excavation	82.00 CY	7	709			150		10.47 /CY	858	13.14 /CY	1,078
				31.25.03.00	Earthworks, Structural, Backfill											
					3" Oil Sand Layer	17.00 CY	32	3,259	765	-	283	-	253.33 /CY	4,307	321.44 /CY	5,464
					Prepare Subgrade	389.00 sf	24	2,444		-	283	-	7.01 /sf	2,727	8.80 /sf	3,425
					Compaction, 4 passes, 18" wide, 12" lifts, walk behind, vibrating plate	389.00 cy	11	1,011	-	-	207	-	3.13 /cy	1,218	3.93 /cy	1,530
					31.25.03.00 Earthworks, Structural, Backfill	17.00 CY	67	6,714	765		773		485.42 /CY	8,252	612.92 /CY	10,420
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling and disposal, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	82.00 CY	8	834	820	-	766	-	29.52 /CY	2,420	37.80 /CY	3,099
					Load excavated spoils	82.00 cy	1	117		-	103	-	2.68 /cy	220	3.37 /cy	276
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	82.00 CY	9	951	820		870		32.20 /CY	2,640	41.17 /CY	3,376
					31.25.00.0010 Structural Earthworks	1.00 LS	83	8,374	1,585		1,792		11,750.60 /LS	11,751	14,873.13 /LS	14,873
					31.25 Earthworks, Structural	181.00 CY	83	8,374	1,585		1,792		64.92 /CY	11,751	82.17 /CY	14,873
					31.0 Earthwork	1.00 LS	83	8,374	1,585		1,792		11,750.60 /LS	11,751	14,873.13 /LS	14,873
	33.0				Utilities											
		33.90			Tanks											
			MOA-33.30.001		50" Dia Aboveground Tank											
				44.05.76.02	Horizontal Bulk Chemical Storage Tank: >5000 gal											
					Aboveground water utility storage tanks, steel, ground level, ht./diam. less than 1, 750,000 gallons, excl. foundation	1.00 EA		-	-	900,000	-		900,000.00 /EA	900,000	1,130,359.29 /EA	1,130,359
					44.05.76.02 Horizontal Bulk Chemical Storage Tank: >5000 gal	1.00 EA				900,000			900,000.00 /EA	900,000	1,130,359.29 /EA	1,130,359
					MOA-33.30.001 50" Dia Aboveground Tank	1.00 EA				900,000			900,000.00 /EA	900,000	1,130,359.29 /EA	1,130,359
					33.90 Tanks	1.00 EA				900,000			900,000.00 /EA	900,000	1,130,359.29 /EA	1,130,359
					33.0 Utilities	1.00 LF				900,000			900,000.00 /LF	900,000	1,130,359.29 /LF	1,130,359
					2280 TRR PGP Fire Water Tank	**1.00 LS**	**447**	**46,408**	**31,520**	**926,625**	**1,925**		**1,006,477.42 /LS**	**1,006,477**	**1,281,185.78 /LS**	**1,281,186**
2281					**TRR PGP Fire Water Pumping Plant**											
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.008		12" thick Slab on Grade											
				03.10.05.12	Cast-In-Place Concrete, Slab on Grade, 12" thick											
					Fine grade, for slab on grade, by hand	239.00 sf	2	151	7	-	-	-	0.66 /sf	158	0.97 /sf	231
					Fill, gravel subbase, under building slab on grade	5.90 cy	3	267	165	-	-	-	73.19 /cy	432	108.60 /cy	641
					Concrete pumping, subcontract, all inclusive price	9.00 cy		-	-	225	-	-	25.00 /cy	225	36.40 /cy	328
					Base slab sump forms	128.00 sf	32	3,467	160	-	-	-	28.34 /sf	3,627	41.35 /sf	5,292
					Slab on grade edge forms, 7" to 12"	68.00 sf	12	1,326	68	-	-	-	20.50 /sf	1,394	29.92 /sf	2,035
					Concrete, ready mix, 4500 psi	9.00 CY		-	1,980	-	-	-	220.00 /CY	1,980	336.26 /CY	3,026
					Add for concrete waste, 4500 psi	0.50 cy		-	110	-	-	-	220.00 /cy	110	336.26 /cy	168
					Placing concrete, concrete pump	9.00 cy	13	1,186	-	-	-	-	131.76 /cy	1,186	191.84 /cy	1,727
					Finishing floors, monolithic, trowel finish (machine)	239.00 sf	5	437	5	-	-	-	1.85 /sf	441	2.69 /sf	643
					Curing, membrane spray	239.00 sf	0	43	10	-	-	-	0.22 /sf	53	0.32 /sf	78
					Polyethelene vapor barrier, 10 mil thick	2.39 sq	1	57	25	-	-	-	34.30 /sq	82	50.71 /sq	121
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	0.80 ton	13	1,498	1,200	-	-	-	3,372.04 /ton	2,698	5,018.29 /ton	4,015
					Reinforcing in place, unloading & sorting, add to above - slabs	0.80 ton	0	53	-	-	19	-	89.94 /ton	72	130.95 /ton	105
					03.10.05.12 Cast-In-Place Concrete, Slab on Grade, 12" thick	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,045.39 /CY	18,409
					MOA-03.20.008 12" thick Slab on Grade	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,045.39 /CY	18,409
					03.18 Cast-In-Place Concrete, Slabs on Grade	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,045.39 /CY	18,409
					03.0 Concrete Work	9.00 CY	81	8,484	3,730	225	19		1,384.21 /CY	12,458	2,045.39 /CY	18,409
	13.0				Buildings Complete											
		13.01			Buildings Complete											
			MOA-13.01.001		Preengineered Metal Building; 20' Eave Height											
				13.00.01.00	Metal Building Systems - Pre-Engineered											
					Pre-engnrd bldg, rigid frame, 20' wide, 14' eave ht	168.00 SF		-	-	3,192	-	-	19.00 /SF	3,192	23.86 /SF	4,009
					Pre-engnrd eave overhang, 2' w/ soffit	2.00 lf		-	-	60	-	-	30.00 /lf	60	37.68 /lf	75
					Pre-engnrd entrance canopy, 4' x 4'	1.00 ea		-	-	350	-	-	350.00 /ea	350	439.58 /ea	440
					Pre-engnrd H.M. door, 3' x 7', average	1.00 ea		-	-	500	-	-	500.00 /ea	500	627.98 /ea	628
					Pre-engnrd H.M. double door, 6' x 7' opening	1.00 pr		-	-	1,000	-	-	1,000.00 /pr	1,000	1,255.95 /pr	1,256
					Pre-engnrd door frame (only), for openings 3' x 7'	1.00 ea		-	-	300	-	-	300.00 /ea	300	376.80 /ea	377
					Pre-engnrd flashings (corner, eave, rake, and ridge)	68.00 lf		-	-	476	-	-	7.00 /lf	476	8.79 /lf	598
					Pre-engnrd inulation, 4" thick, R-13	1,200.00 sf		-	-	960	-	-	0.80 /sf	960	1.00 /sf	1,206
					Pre-engnrd windows, 6' x 4'	4.00 ea		-	-	2,500	-	-	625.00 /ea	2,500	784.97 /ea	3,140
					Pre-engnrd skylightes, fiberglass panels	50.00 sf		-	-	550	-	-	11.00 /sf	550	13.82 /sf	691
					Pre-engnrd roof vents, 20" dia. w/ birdscreen	2.00 ea		-	-	650	-	-	325.00 /ea	650	408.18 /ea	816
					Pre-engnrd continuous roof vent, 10' long x 12" wide	68.00 ea		-	-	18,700	-	-	275.00 /ea	18,700	345.39 /ea	23,486
					13.00.01.00 Metal Building Systems - Pre-Engineered	168.00 SF				29,238			174.04 /SF	29,238	218.58 /SF	36,722
					MOA-13.01.001 Preengineered Metal Building; 20' Eave Height	1.00 LS				29,238			29,238.00 /LS	29,238	36,721.59 /LS	36,722
					13.01 Buildings Complete	168.00 SF				29,238			174.04 /SF	29,238	218.58 /SF	36,722
					13.0 Buildings Complete	1.00 LS				29,238			29,238.00 /LS	29,238	36,721.59 /LS	36,722
	26.0				Electrical Work											
		26.20			Facility Electrical											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Elec Distribution and Pump/FCP Circuits	1.00 LS	35	3,651	5,000	200,000	-	-	208,651.10 /LS	208,651	265,014.18 /LS	265,014
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,014.18 /LS**	**265,014**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,014.18 /LS**	**265,014**
					26.20 Facility Electrical	***1.00*** **LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,014.18 /LS**	**265,014**
					26.0 Electrical Work	***1.00*** **LS**	**35**	**3,651**	**5,000**	**200,000**			**208,651.10 /LS**	**208,651**	**265,014.18 /LS**	**265,014**
	44.0				**Pollution and Waste Control Equipment**											
		44.40			**Process Equipment - Pumps**											
			44.40.320		**Electric Fire Pump**											
				44.05.40.26	**Electric Fire Pump**											
					Furnish and Install Fire Water Pump Allowance	1.00 EA	48	5,431	50,000	-	560	-	55,990.67 /EA	55,991	73,946.74 /EA	73,947
					Process Piping, Fittings, and Valving Allowance	1.00 ls	48	5,431	20,000	-	1,040	-	26,470.67 /ls	26,471	34,695.98 /ls	34,696
					44.05.40.26 Electric Fire Pump	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**108,642.72 /EA**	**108,643**
					44.40.320 Electric Fire Pump	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**108,642.72 /EA**	**108,643**
					44.40 Process Equipment - Pumps	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**108,642.72 /EA**	**108,643**
					44.0 Pollution and Waste Control Equipment	**1.00 EA**	**96**	**10,861**	**70,000**		**1,600**		**82,461.34 /EA**	**82,461**	**108,642.72 /EA**	**108,643**
					2281 TRR PGP Fire Water Pumping Plant	***1.00*** **LS**	**212**	**22,997**	**78,730**	**229,463**	**1,619**		**332,808.31 /LS**	**332,808**	**428,787.02 /LS**	**428,787**
2285					**TRR PGP Surge Control System**											
	03.0				**Concrete Work**											
		03.10			**Cast-In-Place Concrete Work**											
			MOA-03.00.004		**14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports**											
				03.10.03.36	**Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide**											
					Fine grade, for slab on grade, by hand	560.00 sf	4	354	17	-	-	-	0.66 /sf	371	0.97 /sf	542
					Concrete pumping, subcontract, all inclusive price	63.00 cy		-	-	1,575	-	-	25.00 /cy	1,575	36.40 /cy	2,293
					Edge forms, housekeeping pads >6" Deep	1,584.00 sf	396	42,903	2,376	-	-	-	28.59 /sf	45,279	41.73 /sf	66,096
					Concrete, ready mix, 4500 psi	63.00 CY		-	13,860	-	-	-	220.00 /CY	13,860	336.26 /CY	21,184
					Add for concrete waste, 4500 psi	2.00 cy		-	440	-	-	-	220.00 /cy	440	336.27 /cy	673
					Placing concrete, concrete pump	63.00 cy	92	8,301	-	-	-	-	131.77 /cy	8,301	191.85 /cy	12,086
					Finish housekeeping pads	560.00 sf	22	2,046	17	-	-	-	3.68 /sf	2,063	5.37 /sf	3,005
					Curing, membrane spray	560.00 sf	1	101	22	-	-	-	0.22 /sf	124	0.32 /sf	182
					Polyethelene vapor barrier, 6 mil thick	5.60 sq	1	133	20	-	-	-	27.33 /sq	153	40.06 /sq	224
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.75 ton	92	10,764	8,625	-	-	-	3,372.03 /ton	19,389	5,018.28 /ton	28,855
					Reinforcing in place, unloading & sorting, add to above - slabs	5.75 ton	3	384	-	-	133	-	89.94 /ton	517	130.95 /ton	753
					03.10.03.36 Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide	**63.00 CY**	**612**	**64,987**	**25,377**	**1,575**	**133**		**1,461.47 /CY**	**92,072**	**2,157.03 /CY**	**135,893**
					MOA-03.00.004 14'-0" x 3'-0" high x 2'-6" wide Ground Beam Tank Saddle Supports	**63.00 CY**	**612**	**64,987**	**25,377**	**1,575**	**133**		**1,461.47 /CY**	**92,072**	**2,157.03 /CY**	**135,893**
					03.10 Cast-In-Place Concrete Work	**63.00 CY**	**612**	**64,987**	**25,377**	**1,575**	**133**		**1,461.47 /CY**	**92,072**	**2,157.03 /CY**	**135,893**
		03.12			**Cast-In-Place Concrete, Pad Footings**											
			MOA-03.00.003		**17'-0" x 16'-0" x 2'-0" thick Spread Footing**											
				03.10.01.24A	**Cast-In-Place Concrete, Spread Footings, 24" thick**											
					Fine grade, for slab on grade, by hand	4,352.00 sf	30	2,754	131	-	-	-	0.66 /sf	2,884	0.97 /sf	4,209
					Fill, gravel subbase, under building slab on grade	161.19 cy	81	7,285	4,513	-	-	-	73.19 /cy	11,798	108.60 /cy	17,504
					Concrete pumping, subcontract, all inclusive price	323.00 cy		-	-	8,075	-	-	25.00 /cy	8,075	36.40 /cy	11,757
					Forms in place, column footings	2,112.00 sf	422	45,763	2,112	-	-	-	22.67 /sf	47,875	33.08 /sf	69,857
					Concrete, ready mix, 4500 psi	323.00 CY		-	71,060	-	-	-	220.00 /CY	71,060	336.26 /CY	108,612
					Add for concrete waste, 4500 psi	10.00 cy		-	2,200	-	-	-	220.00 /cy	2,200	336.26 /cy	3,363
					Placing concrete, concrete pump	323.00 cy	471	42,561	-	-	-	-	131.77 /cy	42,561	191.85 /cy	61,967
					Finishing footings, screed finish	4,352.00 sf	65	5,963	-	-	-	-	1.37 /sf	5,963	1.99 /sf	8,682
					Curing, membrane spray	4,352.00 sf	9	787	174	-	-	-	0.22 /sf	961	0.32 /sf	1,412
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	28.50 ton	456	53,353	42,750	-	-	-	3,372.03 /ton	96,103	5,018.28 /ton	143,021
					Reinforcing in place, unloading & sorting, add to above - slabs	28.50 ton	16	1,903	-	-	661	-	89.94 /ton	2,563	130.95 /ton	3,732
					03.10.01.24A Cast-In-Place Concrete, Spread Footings, 24" thick	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,344.01 /CY**	**434,114**
					MOA-03.00.003 17'-0" x 16'-0" x 2'-0" thick Spread Footing	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,344.01 /CY**	**434,114**
					03.12 Cast-In-Place Concrete, Pad Footings	**323.00 CY**	**1,550**	**160,367**	**122,940**	**8,075**	**661**		**904.16 /CY**	**292,043**	**1,344.01 /CY**	**434,114**
					03.0 Concrete Work	**386.00 CY**	**2,162**	**225,354**	**148,317**	**9,650**	**794**		**995.12 /CY**	**384,115**	**1,476.70 /CY**	**570,008**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.90.LPS		**Facility Lightning Protection System**											
				26.15.10.00	**Process Electrical, Lightning Protection**											
					Elec Distribution and FP Circuits	1.00 LS	35	3,651	5,000	75,000	-	-	83,651.10 /LS	83,651	108,019.83 /LS	108,020
					26.15.10.00 Process Electrical, Lightning Protection	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,019.83 /LS**	**108,020**
					26.90.LPS Facility Lightning Protection System	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,019.83 /LS**	**108,020**
					26.20 Facility Electrical	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,019.83 /LS**	**108,020**
					26.0 Electrical Work	***1.00*** **LS**	**35**	**3,651**	**5,000**	**75,000**			**83,651.10 /LS**	**83,651**	**108,019.83 /LS**	**108,020**
	31.0				**Earthwork**											
		31.25			**Earthworks, Structural**											
			31.25.00.0010		**Structural Earthworks**											
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Excavating, continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	323.00 CY	26	2,791	-	-	589	-	10.47 /CY	3,380	13.14 /CY	4,246
					31.25.01.00 Earthworks, Structural, Excavation	**323.00 CY**	**26**	**2,791**			**589**		**10.47 /CY**	**3,380**	**13.14 /CY**	**4,246**
				31.25.05.00	**Earthworks, Structural, Hauling and Disposal**											
					Hauling and disposal, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	323.00 CY	33	3,286	3,230	-	3,019	-	29.52 /CY	9,534	37.80 /CY	12,209
					Load excavated spoils	323.00 cy	4	459		-	407	-	2.68 /cy	866	3.37 /cy	1,088
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	**323.00 CY**	**37**	**3,745**	**3,230**		**3,426**		**32.20 /CY**	**10,400**	**41.17 /CY**	**13,297**
					31.25.00.0010 Structural Earthworks	***1.00*** **LS**	**63**	**6,536**	**3,230**		**4,015**		**13,780.74 /LS**	**13,781**	**17,542.16 /LS**	**17,542**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.25 Earthworks, Structural	646.00 CY	63	6,536	3,230		4,015		21.33 /CY	13,781	27.16 /CY	17,542
					31.0 Earthwork	1.00 LS	63	6,536	3,230		4,015		13,780.74 /LS	13,781	17,542.16 /LS	17,542
	43.0				Process Equipment											
		43.22			Process Equipment - Expansion Tanks											
			40.00.320		Surge Tanks and Connections											
				43.05.36.00	Expansion Tanks											
					Surge Tanks and Piping Connections	8.00 EA	2,240	233,367	960,000	-	95,332	-	161,087.36 /EA	1,288,699	211,018.44 /EA	1,688,148
					43.05.36.00 Expansion Tanks	8.00 EA	2,240	233,367	960,000		95,332		161,087.36 /EA	1,288,699	211,018.44 /EA	1,688,148
					40.00.320 Surge Tanks and Connections	8.00 EA	2,240	233,367	960,000		95,332		161,087.36 /EA	1,288,699	211,018.44 /EA	1,688,148
					43.22 Process Equipment - Expansion Tanks	8.00 EA	2,240	233,367	960,000		95,332		161,087.36 /EA	1,288,699	211,018.44 /EA	1,688,148
					43.0 Process Equipment	1.00 LS	2,240	233,367	960,000		95,332		1,288,698.88 /LS	1,288,699	1,688,147.51 /LS	1,688,148
					2285 TRR PGP Surge Control System	1.00 LS	4,500	468,908	1,116,547	84,650	100,141		1,770,246.11 /LS	1,770,246	2,383,717.13 /LS	2,383,717
2291					TRR Check Structure 1											
	03.0				Concrete Work											
		03.11			Cast-In-Place Concrete, Grade Walls											
			MOA-03.25.018		18" thick CIP Grade Wall - 16'-0" High - Below Grade											
				03.10.00.18	Concrete, Cast-in-Place, Grade Walls, 18" Wide											
					Concrete pumping, subcontract, all inclusive price	262.00 cy		-	-	6,550	-	-	25.00 /cy	6,550	36.40 /cy	9,537
					Forms in place, structural walls, > 8' to 16' high, hand set	9,408.00 sf	2,910	315,272	11,760	-	-	-	34.76 /sf	327,032	50.70 /sf	476,996
					Concrete, ready mix, 4500 psi	262.00 CY		-	57,640	-	-	-	220.00 /CY	57,640	336.26 /CY	88,100
					Add for concrete waste, 4500 psi	13.07 cy		-	2,875	-	-	-	220.00 /cy	2,875	336.26 /cy	4,394
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	262.00 cy	197	17,761	-	-	-	-	67.79 /cy	17,761	98.70 /cy	25,860
					Patch & plug tieholes	9,408.00 sf	141	12,756	188	-	-	-	1.38 /sf	12,944	2.00 /sf	18,859
					Stone rub	9,408.00 sf	470	42,519	282	-	-	-	4.55 /sf	42,801	6.63 /sf	62,337
					Curing, membrane spray	9,408.00 sf	19	1,701	376	-	-	-	0.22 /sf	2,077	0.32 /sf	3,051
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	23.00 ton	368	43,057	34,500	-	-	-	3,372.03 /ton	77,557	5,018.28 /ton	115,420
					Reinforcing in place, unloading & sorting, add to above - slabs	23.00 ton	13	1,535	-	-	533	-	89.94 /ton	2,069	130.95 /ton	3,012
					03.10.00.18 Concrete, Cast-in-Place, Grade Walls, 18" Wide	262.00 CY	4,118	434,601	107,621	6,550	533		2,096.59 /CY	549,305	3,082.31 /CY	807,566
					MOA-03.25.018 18" thick CIP Grade Wall - 16'-0" High - Below Grade	262.00 CY	4,118	434,601	107,621	6,550	533		2,096.59 /CY	549,305	3,082.31 /CY	807,566
					03.11 Cast-In-Place Concrete, Grade Walls	262.00 CY	4,118	434,601	107,621	6,550	533		2,096.59 /CY	549,305	3,082.31 /CY	807,566
		03.15			Cast-In-Place Concrete, Grade Beams											
			MOA-03.00.005		1'-0" wide, 3'-11" Deep Grade Beam											
				03.10.03.47	Cast-In-Place Concrete, Grade Beams, 47" high x 12" wide											
					Fine grade, for slab on grade, by hand	120.00 sf	1	121	4	-	-	-	1.04 /sf	125	1.52 /sf	182
					Fill, gravel subbase, under building slab on grade	2.96 cy	2	214	83	-	-	-	100.31 /cy	297	148.08 /cy	439
					Concrete pumping, subcontract, all inclusive price	17.41 cy		-	-	435	-	-	25.00 /cy	435	36.40 /cy	634
					Forms in place, continuous footing, sides	940.00 sf	145	15,753	940	-	-	-	17.76 /sf	16,693	25.93 /sf	24,373
					Concrete, ready mix, 4500 psi	18.00 CY		-	3,960	-	-	-	220.00 /CY	3,960	336.26 /CY	6,053
					Add for concrete waste, 4500 psi	1.00 cy		-	220	-	-	-	220.00 /cy	220	336.25 /cy	336
					Placing concrete, concrete pump	18.00 cy	14	1,220	-	-	-	-	67.79 /cy	1,220	98.70 /cy	1,777
					Finishing footings, screed finish	120.00 sf	2	164	-	-	-	-	1.37 /sf	164	1.99 /sf	239
					Curing, water	120.00 sf	0	36	6	-	-	-	0.35 /sf	42	0.52 /sf	62
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.75 ton	28	3,276	2,625	-	-	-	3,372.03 /ton	5,901	5,018.28 /ton	8,782
					Reinforcing in place, unloading & sorting, add to above - slabs	1.75 ton	1	117	-	-	41	-	89.94 /ton	157	130.95 /ton	229
					03.10.03.47 Cast-In-Place Concrete, Grade Beams, 47" high x 12" wide	18.00 CY	194	20,903	7,838	435	41		1,623.10 /CY	29,216	2,394.73 /CY	43,105
					MOA-03.00.005 1'-0" wide, 3'-11" Deep Grade Beam	18.00 CY	194	20,903	7,838	435	41		1,623.10 /CY	29,216	2,394.73 /CY	43,105
			MOA-03.00.006		1'-6" wide, 3'-0" Deep Grade Beam											
				03.10.03.36	Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide											
					Fine grade, for slab on grade, by hand	441.00 sf	5	447	13	-	-	-	1.04 /sf	460	1.52 /sf	670
					Fill, gravel subbase, under building slab on grade	10.89 cy	9	787	305	-	-	-	100.29 /cy	1,092	148.05 /cy	1,612
					Concrete pumping, subcontract, all inclusive price	49.00 cy		-	-	1,225	-	-	25.00 /cy	1,225	36.40 /cy	1,784
					Forms in place, continuous footing, sides	1,764.00 sf	273	29,562	1,764	-	-	-	17.76 /sf	31,326	25.93 /sf	45,737
					Concrete, ready mix, 4500 psi	49.00 CY		-	10,780	-	-	-	220.00 /CY	10,780	336.26 /CY	16,477
					Add for concrete waste, 4500 psi	2.45 cy		-	539	-	-	-	220.00 /cy	539	336.26 /cy	824
					Placing concrete, concrete pump	49.00 cy	37	3,322	-	-	-	-	67.79 /cy	3,322	98.70 /cy	4,836
					Finishing footings, screed finish	441.00 sf	7	604	-	-	-	-	1.37 /sf	604	1.99 /sf	880
					Curing, water	441.00 sf	1	133	22	-	-	-	0.35 /sf	155	0.52 /sf	227
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	4.50 ton	72	8,424	6,750	-	-	-	3,372.03 /ton	15,174	5,018.27 /ton	22,582
					Reinforcing in place, unloading & sorting, add to above - slabs	4.50 ton	3	300	-	-	104	-	89.94 /ton	405	130.95 /ton	589
					03.10.03.36 Cast-In-Place Concrete, Grade Beams, 36" high x 30" wide	49.00 CY	406	43,579	20,173	1,225	104		1,328.20 /CY	65,082	1,963.65 /CY	96,219
					MOA-03.00.006 1'-6" wide, 3'-0" Deep Grade Beam	49.00 CY	406	43,579	20,173	1,225	104		1,328.20 /CY	65,082	1,963.65 /CY	96,219
					03.15 Cast-In-Place Concrete, Grade Beams	67.00 CY	600	64,482	28,011	1,660	145		1,407.43 /CY	94,298	2,079.46 /CY	139,324
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.009		18" thick Slab on Grade											
				03.10.05.18	Cast-In-Place Concrete, Slabs on Grade, 18" thick											
					Fine grade, for slab on grade, by hand	1,998.00 sf	22	2,023	60	-	-	-	1.04 /sf	2,083	1.52 /sf	3,037
					Fill, gravel subbase, under building slab on grade	49.33 cy	39	3,567	1,381	-	-	-	100.30 /cy	4,948	148.06 /cy	7,304
					Concrete pumping, subcontract, all inclusive price	111.00 cy		-	-	2,775	-	-	25.00 /cy	2,775	36.40 /cy	4,040
					Slab on grade edge forms, 12" to 24"	405.00 sf	112	12,182	405	-	-	-	31.08 /sf	12,587	45.32 /sf	18,355
					Keyway form	294.00 lf	68	7,388	147	-	-	-	25.63 /lf	7,535	37.35 /lf	10,981
					Concrete, ready mix, 4500 psi	111.00 CY		-	24,420	-	-	-	220.00 /CY	24,420	336.26 /CY	37,325
					Add for concrete waste, 4500 psi	5.55 cy		-	1,221	-	-	-	220.00 /cy	1,221	336.26 /cy	1,866
					Placing concrete, concrete pump	111.00 cy	83	7,525	-	-	-	-	67.79 /cy	7,525	98.70 /cy	10,956
					Finishing floors, monolithic, trowel finish (machine)	1,998.00 sf	40	3,650	40	-	-	-	1.85 /sf	3,690	2.69 /sf	5,375
					Curing, membrane spray	1,998.00 sf	4	361	80	-	-	-	0.22 /sf	441	0.32 /sf	648
					Polyethelene vapor barrier, 10 mil thick	19.98 sq	4	474	212	-	-	-	34.30 /sq	685	50.71 /sq	1,013
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	9.75 ton	156	18,252	14,625	-	-	-	3,372.03 /ton	32,877	5,018.28 /ton	48,928
					Reinforcing in place, unloading & sorting, add to above - slabs	9.75 ton	5	651	-	-	226	-	89.94 /ton	877	130.95 /ton	1,277

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.05.18 Cast-In-Place Concrete, Slabs on Grade, 18" thick	111.00 CY	536	56,072	42,591	2,775	226		915.89 /CY	101,664	1,361.32 /CY	151,106
					MOA-03.20.009 18" thick Slab on Grade	**111.00 CY**	**536**	**56,072**	**42,591**	**2,775**	**226**		**915.89 /CY**	**101,664**	**1,361.32 /CY**	**151,106**
			MOA-03.20.011		**7" thick Slab on Grade**											
				03.10.05.07	Cast-In-Place Concrete, Slabs on Grade, 7" thick											
					Fine grade, for slab on grade, by hand	3,600.00 sf	40	3,645	108	-	-	-	1.04 /sf	3,753	1.52 /sf	5,472
					Fill, gravel subbase, under building slab on grade	66.67 cy	53	4,820	1,867	-	-	-	100.30 /cy	6,686	148.06 /cy	9,871
					Concrete pumping, subcontract, all inclusive price	78.00 cy		-	-	1,950	-	-	25.00 /cy	1,950	36.40 /cy	2,839
					Slab on grade edge forms, 7" to 12"	210.00 sf	57	6,186	210	-	-	-	30.46 /sf	6,396	44.42 /sf	9,328
					Concrete, ready mix, 4500 psi	78.00 CY		-	17,160	-	-	-	220.00 /CY	17,160	336.26 /CY	26,228
					Add for concrete waste, 4500 psi	3.89 cy		-	856	-	-	-	220.00 /cy	856	336.26 /cy	1,308
					Placing concrete, concrete pump	78.00 cy	59	5,288	-	-	-	-	67.79 /cy	5,288	98.70 /cy	7,699
					Finishing floors, monolithic, trowel finish (machine)	3,600.00 sf	72	6,577	72	-	-	-	1.85 /sf	6,649	2.69 /sf	9,685
					Curing, membrane spray	3,600.00 sf	7	651	144	-	-	-	0.22 /sf	795	0.32 /sf	1,168
					Polyethelene vapor barrier, 10 mil thick	36.00 sq	8	853	382	-	-	-	34.30 /sq	1,235	50.71 /sq	1,826
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	7.00 ton	112	13,104	10,500	-	-	-	3,372.03 /ton	23,604	5,018.28 /ton	35,128
					Reinforcing in place, unloading & sorting, add to above - slabs	7.00 ton	4	467	-	-	162	-	89.94 /ton	630	130.95 /ton	917
					03.10.05.07 Cast-In-Place Concrete, Slabs on Grade, 7" thick	78.00 CY	412	41,591	31,298	1,950	162		961.56 /CY	75,001	1,429.07 /CY	111,468
					MOA-03.20.011 7" thick Slab on Grade	**78.00 CY**	**412**	**41,591**	**31,298**	**1,950**	**162**		**961.56 /CY**	**75,001**	**1,429.07 /CY**	**111,468**
					03.18 Cast-In-Place Concrete, Slabs on Grade	189.00 CY	948	97,663	73,889	4,725	388		934.74 /CY	176,665	1,389.28 /CY	262,574
					03.0 Concrete Work	518.00 CY	5,665	596,746	209,521	12,935	1,067		1,583.53 /CY	820,269	2,334.87 /CY	1,209,464
	05.0				Metals											
		05.00			Metals											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	244.00 LF	49	6,097	15,250	-	229	-	88.43 /LF	21,576	128.86 /LF	31,441
					05.50.04.10 Metals, Pipe and Tube Railings	244.00 LF	49	6,097	15,250		229		88.43 /LF	21,576	128.86 /LF	31,441
					05.00.000 Hand Railing	**244.00 LF**	**49**	**6,097**	**15,250**		**229**		**88.43 /LF**	**21,576**	**128.86 /LF**	**31,441**
			05.00.004		**Metal Grating**											
				05.50.05.00	Metals, Gratings											
					Structural steel member, W6x12, A992 steel, shop fabricated, incl shop primer, bolted connections	10.00 lf	1	116	270	-	46	-	43.17 /lf	432	62.65 /lf	626
					Structural steel member, W12x26, A992 steel, shop fabricated, incl shop primer, bolted connections	144.00 lf	9	1,138	6,768	-	449	-	58.02 /lf	8,355	84.99 /lf	12,238
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	360.00 SF	75	9,294	19,080	-	6,413	-	96.63 /SF	34,787	139.70 /SF	50,292
					05.50.05.00 Metals, Gratings	360.00 SF	85	10,548	26,118		6,908		121.04 /SF	43,574	175.43 /SF	63,156
					05.00.004 Metal Grating	**360.00 SF**	**85**	**10,548**	**26,118**		**6,908**		**121.04 /SF**	**43,574**	**175.43 /SF**	**63,156**
					05.00 Metals	*1.00* LS	134	16,645	41,368		7,137		65,149.99 /LS	65,150	94,597.13 /LS	94,597
					05.0 Metals	*1.00* LS	134	16,645	41,368		7,137		65,149.99 /LS	65,150	94,597.13 /LS	94,597
	26.0				Electrical Work											
		26.25			Electrical Equipment											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	Electrical, Other											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	60.00 lf	11	1,113	1,143	-	-	-	37.60 /lf	2,256	59.88 /lf	3,593
					Flexible metallic conduit, steel, 1-1/2" diameter	20.00 lf	3	334	51	-	-	-	19.24 /lf	385	30.12 /lf	602
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.72 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	7.00 ea	2	183	172	-	-	-	50.58 /ea	354	80.48 /ea	563
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.80 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	7.00 ea	2	254	322	-	-	-	82.28 /ea	576	131.36 /ea	920
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.24 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,354.89 /ea	11,355
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,064.77 /ea	13,065
					26.00.99.00 Electrical, Other	*1.00* LS	77	7,989	11,090				19,079.46 /LS	19,079	30,490.82 /LS	30,491
				26.15.01.00	Process Electrical, Wire/Cable											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	1.70 clf	2	218	93	-	-	-	182.89 /clf	311	288.51 /clf	490
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	1.70 clf	3	268	132	-	-	-	234.96 /clf	399	371.21 /clf	631
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	5.00 clf	10	1,043	795	-	-	-	367.63 /clf	1,838	583.55 /clf	2,918
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	5.00 clf	18	1,897	1,925	-	-	-	764.33 /clf	3,822	1,217.18 /clf	6,086
					26.15.01.00 Process Electrical, Wire/Cable	13.40 clf	33	3,426	2,944				475.39 /clf	6,370	755.61 /clf	10,125
				26.25.06.00	Transformers, Dry Type											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	2,500	-	-	-	4,884.39 /EA	4,884	7,781.14 /EA	7,781
					26.25.06.00 Transformers, Dry Type	1.00 EA	23	2,384	2,500				4,884.39 /EA	4,884	7,781.14 /EA	7,781
					26.20.DIST Electrical Distribution Equipment	*1.00* **LS**	**132**	**13,799**	**16,535**				**30,334.03 /LS**	**30,334**	**48,397.14 /LS**	**48,397**
					26.25 Electrical Equipment	*1.00* LS	132	13,799	16,535				30,334.03 /LS	30,334	48,397.14 /LS	48,397
					26.0 Electrical Work	*1.00* LS	132	13,799	16,535				30,334.03 /LS	30,334	48,397.14 /LS	48,397
	40.2				Water Control Gates											
		40.30			Water Control Gates											
			40.20.000		**Water Control Gates**											
				40.30.03.96	Slide or Weir Gate, Rectangular, 96"											
					Slide gates, hydraulic structures, steel, self contained, 96" x 96", incl. anchor bolts & grout	1.00 EA	89	11,244	22,000	-	2,627	-	35,870.71 /EA	35,871	46,646.98 /EA	46,647
					40.30.03.96 Slide or Weir Gate, Rectangular, 96"	1.00 EA	89	11,244	22,000		2,627		35,870.71 /EA	35,871	46,646.98 /EA	46,647
				40.30.03.98	Langeman Gate											
					Langeman Gate, 12' Wide	2.00 EA	320	40,479	130,000	-	9,456	-	89,967.28 /EA	179,935	117,707.34 /EA	235,415
					40.30.03.98 Langeman Gate	2.00 EA	320	40,479	130,000		9,456		89,967.28 /EA	179,935	117,707.34 /EA	235,415
					40.20.000 Water Control Gates	**3.00 EA**	**409**	**51,723**	**152,000**		**12,082**		**71,935.09 /EA**	**215,805**	**94,020.55 /EA**	**282,062**
					40.30 Water Control Gates	3.00 EA	409	51,723	152,000		12,082		71,935.09 /EA	215,805	94,020.55 /EA	282,062
					40.2 Water Control Gates	3.00 EA	409	51,723	152,000		12,082		71,935.09 /EA	215,805	94,020.55 /EA	282,062
	40.9				Instrumentation											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
		40.90			Instrumentation & Controls											
			26.40.90		I&C											
				28.35.01.00	Electronic Safety and Security											
					I&C circuits	1.00 LS	160	16,691	10,000	-	-	-	26,690.72 /LS	26,691	42,254.56 /LS	42,255
					LCP100 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.56 /LS	29,270
					Radar and LITs (2)	1.00 LS	80	8,345	20,000		-	-	28,345.36 /LS	28,345	45,554.09 /LS	45,554
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					26.40.90 I&C	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					40.90 Instrumentation & Controls	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					40.9 Instrumentation	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					2291 TRR Check Structure 1	***1.00* LS**	**6,660**	**712,295**	**459,424**	**12,935**	**20,286**		**1,204,939.27 /LS**	**1,204,939**	**1,751,598.30 /LS**	**1,751,598**
2292					**TRR Check Structure 2**											
	03.0				Concrete Work											
		03.11			Cast-In-Place Concrete, Grade Walls											
			MOA-03.25.017		**2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade**											
				03.10.00.24	Concrete, Cast-in-Place, Grade Walls, 24" Thick											
					Concrete pumping, subcontract, all inclusive price	45.00 cy		-	-	1,125	-	-	25.00 /cy	1,125	36.40 /cy	1,638
					Forms in place, structural walls, > 8' to 16' high, hand set	1,215.00 sf	376	40,716	1,519	-	-	-	34.76 /sf	42,235	50.70 /sf	61,602
					Concrete, ready mix, 4500 psi	45.00 CY		-	9,900	-	-	-	220.00 /CY	9,900	336.26 /CY	15,132
					Add for concrete waste, 4500 psi	2.25 cy		-	495	-	-	-	220.00 /cy	495	336.27 /cy	757
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	45.00 cy	34	3,051	-	-	-	-	67.79 /cy	3,051	98.70 /cy	4,442
					Patch & plug tieholes	1,215.00 sf	18	1,647	24	-	-	-	1.38 /sf	1,672	2.00 /sf	2,436
					Stone rub	1,215.00 sf	61	5,491	36	-	-	-	4.55 /sf	5,528	6.63 /sf	8,051
					Curing, membrane spray	1,215.00 sf	2	220	49	-	-	-	0.22 /sf	268	0.32 /sf	394
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	4.00 ton	64	7,488	6,000	-	-	-	3,372.03 /ton	13,488	5,018.28 /ton	20,073
					Reinforcing in place, unloading & sorting, add to above - slabs	4.00 ton	2	267	-	-	93	-	89.94 /ton	360	130.95 /ton	524
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**45.00 CY**	**557**	**58,880**	**18,023**	**1,125**	**93**		**1,736.01 /CY**	**78,121**	**2,556.59 /CY**	**115,047**
					MOA-03.25.017 2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	**45.00 CY**	**557**	**58,880**	**18,023**	**1,125**	**93**		**1,736.01 /CY**	**78,121**	**2,556.59 /CY**	**115,047**
			MOA-03.25.019		**24" thick CIP Grade Wall - 13'-10" High - Below Grade**											
				03.10.00.24	Concrete, Cast-in-Place, Grade Walls, 24" Thick											
					Concrete pumping, subcontract, all inclusive price	123.00 cy		-	-	3,075	-	-	25.00 /cy	3,075	36.40 /cy	4,477
					Forms in place, structural walls, > 8' to 16' high, hand set	3,319.92 sf	1,027	111,254	4,150	-	-	-	34.76 /sf	115,404	50.70 /sf	168,324
					Concrete, ready mix, 4500 psi	123.00 CY		-	27,060	-	-	-	220.00 /CY	27,060	336.26 /CY	41,360
					Add for concrete waste, 4500 psi	6.15 cy		-	1,353	-	-	-	220.00 /cy	1,353	336.26 /cy	2,067
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	123.00 cy	92	8,338	-	-	-	-	67.79 /cy	8,338	98.70 /cy	12,140
					Patch & plug tieholes	3,319.92 sf	50	4,501	66	-	-	-	1.38 /sf	4,568	2.00 /sf	6,655
					Stone rub	3,319.92 sf	166	15,004	100	-	-	-	4.55 /sf	15,104	6.63 /sf	21,998
					Curing, membrane spray	3,319.92 sf	7	600	133	-	-	-	0.22 /sf	733	0.32 /sf	1,077
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.00 ton	176	20,592	16,500	-	-	-	3,372.03 /ton	37,092	5,018.28 /ton	55,201
					Reinforcing in place, unloading & sorting, add to above - slabs	11.00 ton	6	734	-	-	255	-	89.94 /ton	989	130.95 /ton	1,441
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**123.00 CY**	**1,524**	**161,025**	**49,361**	**3,075**	**255**		**1,737.53 /CY**	**213,716**	**2,558.86 /CY**	**314,739**
					MOA-03.25.019 24" thick CIP Grade Wall - 13'-10" High - Below Grade	**123.00 CY**	**1,524**	**161,025**	**49,361**	**3,075**	**255**		**1,737.53 /CY**	**213,716**	**2,558.86 /CY**	**314,739**
			MOA-03.25.020		**33" thick CIP Grade Wall - 13'-10" High - Below Grade**											
				03.10.00.33	Concrete, Cast-in-Place, Grade Walls, 33" Thick											
					Concrete pumping, subcontract, all inclusive price	178.00 cy		-	-	4,450	-	-	25.00 /cy	4,450	36.40 /cy	6,479
					Forms in place, structural walls, > 8' to 16' high, hand set	3,485.92 sf	1,078	116,817	4,357	-	-	-	34.76 /sf	121,174	50.70 /sf	176,740
					Concrete, ready mix, 4500 psi	178.00 CY		-	39,160	-	-	-	220.00 /CY	39,160	336.26 /CY	59,854
					Add for concrete waste, 4500 psi	8.88 cy		-	1,953	-	-	-	220.00 /cy	1,953	336.26 /cy	2,985
					Placing concrete, concrete pump, for structural wall >24" thick	178.00 cy	134	12,067	-	-	-	-	67.79 /cy	12,067	98.70 /cy	17,569
					Patch & plug tieholes	3,485.92 sf	52	4,726	70	-	-	-	1.38 /sf	4,796	2.00 /sf	6,988
					Stone rub	3,485.92 sf	174	15,754	105	-	-	-	4.55 /sf	15,859	6.63 /sf	23,098
					Curing, membrane spray	3,485.92 sf	7	630	139	-	-	-	0.22 /sf	770	0.32 /sf	1,131
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	15.75 ton	252	29,485	23,625	-	-	-	3,372.03 /ton	53,110	5,018.28 /ton	79,038
					Reinforcing in place, unloading & sorting, add to above - slabs	15.75 ton	9	1,051	-	-	365	-	89.94 /ton	1,417	130.95 /ton	2,063
					03.10.00.33 Concrete, Cast-in-Place, Grade Walls, 33" Thick	**178.00 CY**	**1,706**	**180,530**	**69,409**	**4,450**	**365**		**1,431.20 /CY**	**254,754**	**2,112.04 /CY**	**375,943**
					MOA-03.25.020 33" thick CIP Grade Wall - 13'-10" High - Below Grade	**178.00 CY**	**1,706**	**180,530**	**69,409**	**4,450**	**365**		**1,431.20 /CY**	**254,754**	**2,112.04 /CY**	**375,943**
					03.11 Cast-In-Place Concrete, Grade Walls	**346.00 CY**	**3,787**	**400,435**	**136,793**	**8,650**	**713**		**1,579.74 /CY**	**546,591**	**2,328.70 /CY**	**805,729**
		03.15			Cast-In-Place Concrete, Grade Beams											
			MOA-03.00.007		**1'-6" wide, 2'-0" Deep Grade Beam**											
				03.10.03.24	Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide											
					Fine grade, for slab on grade, by hand	138.00 sf	2	140	4	-	-	-	1.04 /sf	144	1.52 /sf	210
					Fill, gravel subbase, under building slab on grade	3.41 cy	3	246	95	-	-	-	100.29 /cy	342	148.05 /cy	504
					Concrete pumping, subcontract, all inclusive price	11.00 cy		-	-	275	-	-	25.00 /cy	275	36.40 /cy	400
					Forms in place, continuous footing, sides	368.00 sf	57	6,167	368	-	-	-	17.76 /sf	6,535	25.93 /sf	9,542
					Concrete, ready mix, 4500 psi	11.00 CY		-	2,420	-	-	-	220.00 /CY	2,420	336.26 /CY	3,699
					Add for concrete waste, 4500 psi	0.51 cy		-	112	-	-	-	220.00 /cy	112	336.28 /cy	172
					Placing concrete, concrete pump	11.00 cy	8	746	-	-	-	-	67.79 /cy	746	98.70 /cy	1,086
					Finishing footings, screed finish	138.00 sf	2	189	-	-	-	-	1.37 /sf	189	1.99 /sf	275
					Curing, membrane spray	138.00 sf	0	25	6	-	-	-	0.22 /sf	30	0.32 /sf	45
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.00 ton	16	1,872	1,500	-	-	-	3,372.03 /ton	3,372	5,018.26 /ton	5,018
					Reinforcing in place, unloading & sorting, add to above - slabs	1.00 ton	1	67	-	-	23	-	89.95 /ton	90	130.97 /ton	131
					03.10.03.24 Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide	**11.00 CY**	**88**	**9,452**	**4,505**	**275**	**23**		**1,295.95 /CY**	**14,255**	**1,916.53 /CY**	**21,082**
					MOA-03.00.007 1'-6" wide, 2'-0" Deep Grade Beam	**11.00 CY**	**88**	**9,452**	**4,505**	**275**	**23**		**1,295.95 /CY**	**14,255**	**1,916.53 /CY**	**21,082**
					03.15 Cast-In-Place Concrete, Grade Beams	**11.00 CY**	**88**	**9,452**	**4,505**	**275**	**23**		**1,295.95 /CY**	**14,255**	**1,916.53 /CY**	**21,082**
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.010		**3'-0" thick Slab on Grade**											
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					Fine grade, for slab on grade, by hand	3,732.00 sf	42	3,779	112	-	-	-	1.04 /sf	3,891	1.52 /sf	5,673
					Fill, gravel subbase, under building slab on grade	207.33 cy	166	14,990	5,805	-	-	-	100.30 /cy	20,795	148.06 /cy	30,697

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					Concrete pumping, subcontract, all inclusive price	415.00 cy		-	-	10,375	-	-	25.00 /cy	10,375	36.40 /cy	15,106
					Slab on grade edge forms, > 24"	1,095.00 sf	304	32,935	1,369	-	-	-	31.33 /sf	34,304	45.70 /sf	50,044
					Concrete, ready mix, 4500 psi	415.00 CY		-	91,300	-	-	-	220.00 /CY	91,300	336.26 /CY	139,548
					Add for concrete waste, 4500 psi	20.73 cy		-	4,561	-	-	-	220.00 /cy	4,561	336.26 /cy	6,972
					Placing concrete, concrete pump	415.00 cy	311	28,134	-	-	-	-	67.79 /cy	28,134	98.70 /cy	40,961
					Finishing floors, monolithic, trowel finish (machine)	3,732.00 sf	75	6,818	75	-	-	-	1.85 /sf	6,892	2.69 /sf	10,040
					Curing, membrane spray	3,732.00 sf	7	675	149	-	-	-	0.22 /sf	824	0.32 /sf	1,210
					Polyethelene vapor barrier, 10 mil thick	37.32 sq	8	885	396	-	-	-	34.30 /sq	1,280	50.71 /sq	1,893
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	36.50 ton	584	68,329	54,750	-	-	-	3,372.03 /ton	123,079	5,018.28 /ton	183,167
					Reinforcing in place, unloading & sorting, add to above - slabs	36.50 ton	20	2,437	-	-	846	-	89.94 /ton	3,283	130.95 /ton	4,780
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	**415.00 CY**	**1,518**	**158,980**	**158,517**	**10,375**	**846**		**792.09 /CY**	**328,718**	**1,180.94 /CY**	**490,091**
					MOA-03.20.010 3'-0" thick Slab on Grade	**415.00 CY**	**1,518**	**158,980**	**158,517**	**10,375**	**846**		**792.09 /CY**	**328,718**	**1,180.94 /CY**	**490,091**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**415.00 CY**	**1,518**	**158,980**	**158,517**	**10,375**	**846**		**792.09 /CY**	**328,718**	**1,180.94 /CY**	**490,091**
		03.24			Cast-In-Place Concrete, Elevated Slabs											
			MOA-03.30.004		**1'-2" thick CIP Elevated Deck**											
				03.10.10.14	Cast-In-Place Concrete, Elevated Decks, 14" thick											
					Concrete pumping, subcontract, all inclusive price	65.00 cy		-	-	1,625	-	-	25.00 /cy	1,625	36.40 /cy	2,366
					Forms in place, elevated slab, soffit	1,492.00 sf	461	49,999	1,865	-	-	-	34.76 /sf	51,864	50.70 /sf	75,646
					Forms in place, elevated slab, edge form	423.50 sf	164	17,742	529	-	-	-	43.14 /sf	18,271	62.90 /sf	26,640
					Slab shoring	20,638.84 cf	224	24,256	1,032	-	-	-	1.23 /cf	25,288	1.79 /cf	36,894
					Concrete, ready mix, 4500 psi	65.00 CY		-	14,300	-	-	-	220.00 /CY	14,300	336.26 /CY	21,857
					Add for concrete waste, 4500 psi	3.22 cy		-	709	-	-	-	220.00 /cy	709	336.26 /cy	1,084
					Placing concrete, concrete pump, for elevated slab over 12" thick	65.00 cy	29	2,644	-	-	-	-	40.68 /cy	2,644	59.22 /cy	3,849
					Curing, membrane spray	1,492.00 sf	3	270	60	-	-	-	0.22 /sf	329	0.32 /sf	484
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	5.75 ton	92	10,764	8,625	-	-	-	3,372.03 /ton	19,389	5,018.27 /ton	28,855
					Reinforcing in place, unloading & sorting, add to above - slabs	5.75 ton	3	384	-	-	133	-	89.94 /ton	517	130.96 /ton	753
					Concrt fnshng,floors,basic fnshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	1,492.00 sf	19	1,766	-	-	-	-	1.18 /sf	1,766	1.72 /sf	2,571
					03.10.10.14 Cast-In-Place Concrete, Elevated Decks, 14" thick	**65.00 CY**	**996**	**107,824**	**27,120**	**1,625**	**133**		**2,103.11 /CY**	**136,702**	**3,092.29 /CY**	**200,999**
					MOA-03.30.004 1'-2" thick CIP Elevated Deck	**65.00 CY**	**996**	**107,824**	**27,120**	**1,625**	**133**		**2,103.11 /CY**	**136,702**	**3,092.29 /CY**	**200,999**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**65.00 CY**	**996**	**107,824**	**27,120**	**1,625**	**133**		**2,103.11 /CY**	**136,702**	**3,092.29 /CY**	**200,999**
					03.0 Concrete Work	**837.00 CY**	**6,389**	**676,690**	**326,936**	**20,925**	**1,716**		**1,226.12 /CY**	**1,026,267**	**1,813.50 /CY**	**1,517,901**
	05.0				Metals											
		05.00			Metals											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	89.00 LF	18	2,224	5,563	-	83	-	88.43 /LF	7,870	128.86 /LF	11,468
					05.50.04.10 Metals, Pipe and Tube Railings	**89.00 LF**	**18**	**2,224**	**5,563**		**83**		**88.43 /LF**	**7,870**	**128.86 /LF**	**11,468**
					05.00.000 Hand Railing	**89.00 LF**	**18**	**2,224**	**5,563**		**83**		**88.43 /LF**	**7,870**	**128.86 /LF**	**11,468**
			05.00.004		**Metal Grating**											
				05.50.05.00	Metals, Gratings											
					Structural steel member, 100-ton project, 1 to 2 story building, W8x21, A992 steel, shop fabricated, incl shop primer, bolted connections	113.00 lf	11	1,310	4,294	-	517	-	54.17 /lf	6,121	78.91 /lf	8,917
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	186.00 SF	39	4,802	9,858	-	3,313	-	96.63 /SF	17,973	139.70 /SF	25,984
					05.50.05.00 Metals, Gratings	**186.00 SF**	**49**	**6,112**	**14,152**		**3,830**		**129.54 /SF**	**24,094**	**187.64 /SF**	**34,901**
					05.00.004 Metal Grating	**186.00 SF**	**49**	**6,112**	**14,152**		**3,830**		**129.54 /SF**	**24,094**	**187.64 /SF**	**34,901**
					05.00 Metals	***1.00* LS**	**67**	**8,336**	**19,715**		**3,914**		**31,964.13 /LS**	**31,964**	**46,369.42 /LS**	**46,369**
					05.0 Metals	***1.00* LS**	**67**	**8,336**	**19,715**		**3,914**		**31,964.13 /LS**	**31,964**	**46,369.42 /LS**	**46,369**
	34.0				Transportation											
		34.00			Transportation											
			05.00.005		**Vehicle Guard Rail**											
				34.71.00.00	Roadway Construction											
					Vehicle guide rails, corrugated steel, galvanized steel posts, install metal guide/guard rail, double face, wood posts 6'-3" O.C., 6" x 8" posts	88.00 LF	5	504	4,312	-	86	-	55.70 /LF	4,902	73.51 /LF	6,469
					Vehicle guide rails, guide/guard rail, steel box beam, end assembly	4.00 ea	2	182	10,700	-	33	-	2,728.81 /ea	10,915	3,621.20 /ea	14,485
					Vehicle guide rails, guide/guard rail, steel box beam, corrugated beam	88.00 lf	5	480	5,412	-	88	-	67.96 /lf	5,980	89.81 /lf	7,903
					34.71.00.00 Roadway Construction	**88.00 LF**	**12**	**1,166**	**20,424**		**207**		**247.69 /LF**	**21,797**	**327.92 /LF**	**28,857**
					05.00.005 Vehicle Guard Rail	**88.00 LF**	**12**	**1,166**	**20,424**		**207**		**247.69 /LF**	**21,797**	**327.92 /LF**	**28,857**
					34.00 Transportation	***1.00* LS**	**12**	**1,166**	**20,424**		**207**		**21,797.09 /LS**	**21,797**	**28,856.90 /LS**	**28,857**
					34.0 Transportation	***1.00* LS**	**12**	**1,166**	**20,424**		**207**		**21,797.09 /LS**	**21,797**	**28,856.90 /LS**	**28,857**
	40.2				Water Control Gates											
		40.30			Water Control Gates											
			40.20.000		**Water Control Gates**											
				40.30.03.96	Slide or Weir Gate, Rectangular, 96"											
					Slide gates, hydraulic structures, steel, self contained, 96" x 96", incl. anchor bolts & grout	4.00 EA	356	44,976	88,000	-	10,506	-	35,870.71 /EA	143,483	46,646.99 /EA	186,588
					40.30.03.96 Slide or Weir Gate, Rectangular, 96"	**4.00 EA**	**356**	**44,976**	**88,000**		**10,506**		**35,870.71 /EA**	**143,483**	**46,646.99 /EA**	**186,588**
					40.20.000 Water Control Gates	**4.00 EA**	**356**	**44,976**	**88,000**		**10,506**		**35,870.71 /EA**	**143,483**	**46,646.99 /EA**	**186,588**
					40.30 Water Control Gates	**4.00 EA**	**356**	**44,976**	**88,000**		**10,506**		**35,870.71 /EA**	**143,483**	**46,646.99 /EA**	**186,588**
					40.2 Water Control Gates	**4.00 EA**	**356**	**44,976**	**88,000**		**10,506**		**35,870.71 /EA**	**143,483**	**46,646.99 /EA**	**186,588**
	40.9				Instrumentation											
		40.90			Instrumentation & Controls											
			26.40.90		**I&C**											
				28.35.01.00	Electronic Safety and Security											
					I&C circuits	1.00 LS	160	16,691	10,000	-	-	-	26,690.72 /LS	26,691	42,254.55 /LS	42,255
					LCP100 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.55 /LS	29,270
					Radar and LITs (2)	1.00 LS	80	8,345	20,000		-	-	28,345.36 /LS	28,345	45,554.11 /LS	45,554
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.40.90 I&C	***1.00*** **LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					40.90 Instrumentation & Controls	***1.00*** **LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					40.9 Instrumentation	***1.00*** **LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.21 /LS**	**117,078**
					2292 TRR Check Structure 2	***1.00*** **LS**	**7,144**	**764,550**	**495,074**	**20,925**	**16,343**		**1,296,892.08 /LS**	**1,296,892**	**1,896,793.04 /LS**	**1,896,793**
2293					**TRR Check Structure 3**											
	03.0				**Concrete Work**											
		03.11			**Cast-In-Place Concrete, Grade Walls**											
			MOA-03.25.017		**2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	45.00 cy		-	-	1,125	-	-	25.00 /cy	1,125	36.40 /cy	1,638
					Forms in place, structural walls, > 8' to 16' high, hand set	1,215.00 sf	376	40,716	1,519	-	-	-	34.76 /sf	42,235	50.70 /sf	61,602
					Concrete, ready mix, 4500 psi	45.00 CY		-	9,900	-	-	-	220.00 /CY	9,900	336.26 /CY	15,132
					Add for concrete waste, 4500 psi	2.25 cy		-	495	-	-	-	220.00 /cy	495	336.25 /cy	757
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	45.00 cy	34	3,051	-	-	-	-	67.79 /cy	3,051	98.70 /cy	4,442
					Patch & plug tieholes	1,215.00 sf	18	1,647	24	-	-	-	1.38 /sf	1,672	2.00 /sf	2,436
					Stone rub	1,215.00 sf	61	5,491	36	-	-	-	4.55 /sf	5,528	6.63 /sf	8,051
					Curing, membrane spray	1,215.00 sf	2	220	49	-	-	-	0.22 /sf	268	0.32 /sf	394
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	4.00 ton	64	7,488	6,000	-	-	-	3,372.03 /ton	13,488	5,018.28 /ton	20,073
					Reinforcing in place, unloading & sorting, add to above - slabs	4.00 ton	2	267	-	-	93	-	89.94 /ton	360	130.95 /ton	524
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**45.00 CY**	**557**	**58,880**	**18,023**	**1,125**	**93**		**1,736.01 /CY**	**78,121**	**2,556.59 /CY**	**115,047**
					MOA-03.25.017 2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	**45.00 CY**	**557**	**58,880**	**18,023**	**1,125**	**93**		**1,736.01 /CY**	**78,121**	**2,556.59 /CY**	**115,047**
			MOA-03.25.019		**24" thick CIP Grade Wall - 13'-10" High - Below Grade**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	371.07 cy		-	-	9,277	-	-	25.00 /cy	9,277	36.40 /cy	13,506
					Forms in place, structural walls, > 8' to 16' high, hand set	10,018.75 sf	3,099	335,738	12,523	-	-	-	34.76 /sf	348,262	50.70 /sf	507,961
					Concrete, ready mix, 4500 psi	371.07 CY		-	81,634	-	-	-	220.00 /CY	81,634	336.26 /CY	124,774
					Add for concrete waste, 4500 psi	18.55 cy		-	4,082	-	-	-	220.00 /cy	4,082	336.26 /cy	6,239
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	371.07 cy	278	25,155	-	-	-	-	67.79 /cy	25,155	98.70 /cy	36,625
					Patch & plug tieholes	10,018.75 sf	150	13,584	200	-	-	-	1.38 /sf	13,784	2.00 /sf	20,084
					Stone rub	10,018.75 sf	501	45,279	301	-	-	-	4.55 /sf	45,580	6.63 /sf	66,384
					Curing, membrane spray	10,018.75 sf	20	1,811	401	-	-	-	0.22 /sf	2,212	0.32 /sf	3,250
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	32.50 ton	520	60,841	48,750	-	-	-	3,372.03 /ton	109,591	5,018.28 /ton	163,094
					Reinforcing in place, unloading & sorting, add to above - slabs	32.50 ton	18	2,170	-	-	754	-	89.94 /ton	2,923	130.95 /ton	4,256
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	**371.07 CY**	**4,587**	**484,578**	**147,891**	**9,277**	**754**		**1,731.50 /CY**	**642,500**	**2,549.88 /CY**	**946,173**
					MOA-03.25.019 24" thick CIP Grade Wall - 13'-10" High - Below Grade	**371.07 CY**	**4,587**	**484,578**	**147,891**	**9,277**	**754**		**1,731.50 /CY**	**642,500**	**2,549.88 /CY**	**946,173**
					03.11 Cast-In-Place Concrete, Grade Walls	**416.07 CY**	**5,144**	**543,458**	**165,914**	**10,402**	**846**		**1,731.99 /CY**	**720,620**	**2,550.61 /CY**	**1,061,219**
		03.15			**Cast-In-Place Concrete, Grade Beams**											
			MOA-03.00.007		**1'-6" wide, 2'-0" Deep Grade Beam**											
				03.10.03.24	**Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide**											
					Fine grade, for slab on grade, by hand	195.00 sf	2	197	6	-	-	-	1.04 /sf	203	1.52 /sf	296
					Fill, gravel subbase, under building slab on grade	4.82 cy	4	348	135	-	-	-	100.29 /cy	483	148.05 /cy	713
					Concrete pumping, subcontract, all inclusive price	15.00 cy		-	-	375	-	-	25.00 /cy	375	36.40 /cy	546
					Forms in place, continuous footing, sides	520.00 sf	80	8,715	520	-	-	-	17.76 /sf	9,235	25.93 /sf	13,483
					Concrete, ready mix, 4500 psi	15.00 CY		-	3,300	-	-	-	220.00 /CY	3,300	336.26 /CY	5,044
					Add for concrete waste, 4500 psi	0.72 cy		-	159	-	-	-	220.00 /cy	159	336.26 /cy	243
					Placing concrete, concrete pump	15.00 cy	11	1,017	-	-	-	-	67.79 /cy	1,017	98.70 /cy	1,481
					Finishing footings, screed finish	195.00 sf	3	267	-	-	-	-	1.37 /sf	267	1.99 /sf	389
					Curing, water	195.00 sf	1	59	10	-	-	-	0.35 /sf	69	0.52 /sf	100
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.50 ton	24	2,808	2,250	-	-	-	3,372.03 /ton	5,058	5,018.29 /ton	7,527
					Reinforcing in place, unloading & sorting, add to above - slabs	1.50 ton	1	100	-	-	35	-	89.94 /ton	135	130.95 /ton	196
					03.10.03.24 Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide	**15.00 CY**	**126**	**13,511**	**6,379**	**375**	**35**		**1,353.34 /CY**	**20,300**	**2,001.23 /CY**	**30,019**
					MOA-03.00.007 1'-6" wide, 2'-0" Deep Grade Beam	**15.00 CY**	**126**	**13,511**	**6,379**	**375**	**35**		**1,353.34 /CY**	**20,300**	**2,001.23 /CY**	**30,019**
					03.15 Cast-In-Place Concrete, Grade Beams	**15.00 CY**	**126**	**13,511**	**6,379**	**375**	**35**		**1,353.34 /CY**	**20,300**	**2,001.23 /CY**	**30,019**
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			MOA-03.20.010		**3'-0" thick Slab on Grade**											
				03.10.05.36	**Cast-In-Place Concrete, Slabs on Grade, 36" thick**											
					Fine grade, for slab on grade, by hand	4,973.00 sf	56	5,035	149	-	-	-	1.04 /sf	5,184	1.52 /sf	7,559
					Fill, gravel subbase, under building slab on grade	276.28 cy	221	19,974	7,736	-	-	-	100.30 /cy	27,710	148.06 /cy	40,905
					Concrete pumping, subcontract, all inclusive price	553.00 cy		-	-	13,825	-	-	25.00 /cy	13,825	36.40 /cy	20,129
					Slab on grade edge forms, > 24"	1,128.00 sf	313	33,928	1,410	-	-	-	31.33 /sf	35,338	45.70 /sf	51,552
					Concrete, ready mix, 4500 psi	553.00 CY		-	121,660	-	-	-	220.00 /CY	121,660	336.26 /CY	185,952
					Add for concrete waste, 4500 psi	27.63 cy		-	6,078	-	-	-	220.00 /cy	6,078	336.26 /cy	9,290
					Placing concrete, concrete pump	553.00 cy	415	37,489	-	-	-	-	67.79 /cy	37,489	98.70 /cy	54,582
					Finishing floors, monolithic, trowel finish (machine)	4,973.00 sf	99	9,085	99	-	-	-	1.85 /sf	9,184	2.69 /sf	13,379
					Curing, membrane spray	4,973.00 sf	10	899	199	-	-	-	0.22 /sf	1,098	0.32 /sf	1,613
					Polyethelene vapor barrier, 10 mil thick	49.73 sq	11	1,179	527	-	-	-	34.30 /sq	1,706	50.71 /sq	2,522
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	48.50 ton	776	90,794	72,750	-	-	-	3,372.03 /ton	163,544	5,018.28 /ton	243,386
					Reinforcing in place, unloading & sorting, add to above - slabs	48.50 ton	27	3,238	-	-	1,125	-	89.94 /ton	4,362	130.95 /ton	6,351
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	**553.00 CY**	**1,928**	**201,620**	**210,609**	**13,825**	**1,125**		**772.47 /CY**	**427,178**	**1,152.30 /CY**	**637,221**
					MOA-03.20.010 3'-0" thick Slab on Grade	**553.00 CY**	**1,928**	**201,620**	**210,609**	**13,825**	**1,125**		**772.47 /CY**	**427,178**	**1,152.30 /CY**	**637,221**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**553.00 CY**	**1,928**	**201,620**	**210,609**	**13,825**	**1,125**		**772.47 /CY**	**427,178**	**1,152.30 /CY**	**637,221**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			MOA-03.30.004		**1'-2" thick CIP Elevated Deck**											
				03.10.10.14	**Cast-In-Place Concrete, Elevated Decks, 14" thick**											
					Concrete pumping, subcontract, all inclusive price	132.09 cy		-	-	3,302	-	-	25.00 /cy	3,302	36.40 /cy	4,808
					Forms in place, elevated slab, soffit	3,057.00 sf	946	102,443	3,821	-	-	-	34.76 /sf	106,265	50.70 /sf	154,993
					Forms in place, elevated slab, edge form	435.17 sf	168	18,230	544	-	-	-	43.14 /sf	18,774	62.90 /sf	27,374
					Slab shoring	42,287.48 cf	459	49,700	2,114	-	-	-	1.23 /cf	51,814	1.79 /cf	75,592
					Concrete, ready mix, 4500 psi	132.09 CY		-	29,060	-	-	-	220.00 /CY	29,060	336.26 /CY	44,418

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.10.14	Cast-In-Place Concrete, Elevated Decks, 14" thick											
					Add for concrete waste, 4500 psi	6.61 cy		-	1,453	-	-	-	220.00 /cy	1,453	336.26 /cy	2,221
					Placing concrete, concrete pump, for elevated slab over 12" thick	132.09 cy	59	5,373	-	-	-	-	40.68 /cy	5,373	59.22 /cy	7,823
					Curing, membrane spray	3,057.00 sf	6	553	122	-	-	-	0.22 /sf	675	0.32 /sf	992
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.75 ton	188	21,996	17,625	-	-	-	3,372.03 /ton	39,621	5,018.27 /ton	58,965
					Reinforcing in place, unloading & sorting, add to above - slabs	11.75 ton	7	784	-	-	272	-	89.94 /ton	1,057	130.95 /ton	1,539
					Concrt frshng,floors,basic frshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	3,057.00 sf	40	3,618	-	-	-	-	1.18 /sf	3,618	1.72 /sf	5,268
					03.10.10.14 Cast-In-Place Concrete, Elevated Decks, 14" thick	**132.09 CY**	**1,872**	**202,698**	**54,740**	**3,302**	**272**		**1,975.98 /CY**	**261,013**	**2,906.98 /CY**	**383,991**
					MOA-03.30.004 1'-2" thick CIP Elevated Deck	**132.09 CY**	**1,872**	**202,698**	**54,740**	**3,302**	**272**		**1,975.98 /CY**	**261,013**	**2,906.98 /CY**	**383,991**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**132.09 CY**	**1,872**	**202,698**	**54,740**	**3,302**	**272**		**1,975.98 /CY**	**261,013**	**2,906.98 /CY**	**383,991**
					03.0 Concrete Work	**1,116.16 CY**	**9,070**	**961,286**	**437,643**	**27,904**	**2,278**		**1,280.38 /CY**	**1,429,111**	**1,892.61 /CY**	**2,112,450**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.000		**Hand Railing**											
				05.50.04.10	**Metals, Pipe and Tube Railings**											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	95.00 LF	19	2,374	5,938	-	89	-	88.43 /LF	8,401	128.86 /LF	12,241
					05.50.04.10 Metals, Pipe and Tube Railings	**95.00 LF**	**19**	**2,374**	**5,938**		**89**		**88.43 /LF**	**8,401**	**128.86 /LF**	**12,241**
					05.00.000 Hand Railing	**95.00 LF**	**19**	**2,374**	**5,938**		**89**		**88.43 /LF**	**8,401**	**128.86 /LF**	**12,241**
			05.00.004		**Metal Grating**											
				05.50.05.00	**Metals, Gratings**											
					Structural steel member, 100-ton project, 1 to 2 story building, W8x21, A992 steel, shop fabricated, incl shop primer, bolted connections	195.00 lf	18	2,261	7,410	-	892	-	54.17 /lf	10,563	78.91 /lf	15,388
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	366.00 SF	76	9,449	19,398	-	6,520	-	96.63 /SF	35,367	139.70 /SF	51,130
					05.50.05.00 Metals, Gratings	**366.00 SF**	**94**	**11,710**	**26,808**		**7,412**		**125.49 /SF**	**45,929**	**181.74 /SF**	**66,518**
					05.00.004 Metal Grating	**366.00 SF**	**94**	**11,710**	**26,808**		**7,412**		**125.49 /SF**	**45,929**	**181.74 /SF**	**66,518**
					05.00 Metals	***1.00* LS**	**113**	**14,084**	**32,746**		**7,501**		**54,329.84 /LS**	**54,330**	**78,759.36 /LS**	**78,759**
					05.0 Metals	***1.00* LS**	**113**	**14,084**	**32,746**		**7,501**		**54,329.84 /LS**	**54,330**	**78,759.36 /LS**	**78,759**
	34.0				**Transportation**											
		34.00			**Transportation**											
			05.00.005		**Vehicle Guard Rail**											
				34.71.00.00	**Roadway Construction**											
					Vehicle guide rails, corrugated steel, galvanized steel posts, install metal guide/guard rail, double face, wood posts 6'-3" O.C., 6" x 8" posts	169.00 LF	9	968	8,281	-	165	-	55.70 /LF	9,413	73.51 /LF	12,423
					Vehicle guide rails, guide/guard rail, steel box beam, shop curved	3.00 lf	1	71	222	-	13	-	102.07 /lf	306	133.56 /lf	401
					Vehicle guide rails, guide/guard rail, steel box beam, end assembly	2.00 ea	1	91	5,350	-	17	-	2,728.81 /ea	5,458	3,621.21 /ea	7,242
					Vehicle guide rails, guide/guard rail, steel box beam, corrugated beam	166.00 lf	10	906	10,209	-	166	-	67.96 /lf	11,281	89.81 /lf	14,908
					34.71.00.00 Roadway Construction	**169.00 LF**	**21**	**2,036**	**24,062**		**360**		**156.56 /LF**	**26,458**	**206.95 /LF**	**34,975**
					05.00.005 Vehicle Guard Rail	**169.00 LF**	**21**	**2,036**	**24,062**		**360**		**156.56 /LF**	**26,458**	**206.95 /LF**	**34,975**
					34.00 Transportation	***1.00* LS**	**21**	**2,036**	**24,062**		**360**		**26,458.09 /LS**	**26,458**	**34,974.67 /LS**	**34,975**
					34.0 Transportation	***1.00* LS**	**21**	**2,036**	**24,062**		**360**		**26,458.09 /LS**	**26,458**	**34,974.67 /LS**	**34,975**
	40.2				**Water Control Gates**											
		40.30			**Water Control Gates**											
			40.20.000		**Water Control Gates**											
				40.30.03.96	**Slide or Weir Gate, Rectangular, 96"**											
					Slide gates, hydraulic structures, steel, self contained, 96" x 96", incl. anchor bolts & grout	8.00 EA	711	89,953	176,000	-	21,013	-	35,870.71 /EA	286,966	46,646.99 /EA	373,176
					40.30.03.96 Slide or Weir Gate, Rectangular, 96"	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.20.000 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.30 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.2 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
	40.9				**Instrumentation**											
		40.90			**Instrumentation & Controls**											
			26.40.90		**I&C**											
				28.35.01.00	**Electronic Safety and Security**											
					I&C circuits	1.00 LS	160	16,691	10,000	-	-	-	26,690.72 /LS	26,691	42,254.55 /LS	42,255
					LCP100 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.55 /LS	29,270
					Radar and LITs (2)	1.00 LS	80	8,345	20,000		-	-	28,345.36 /LS	28,345	45,554.10 /LS	45,554
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.20 /LS**	**117,078**
					26.40.90 I&C	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.20 /LS**	**117,078**
					40.90 Instrumentation & Controls	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.20 /LS**	**117,078**
					40.9 Instrumentation	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.20 /LS**	**117,078**
					2293 TRR Check Structure 3	***1.00* LS**	**10,236**	**1,100,740**	**710,450**	**27,904**	**31,152**		**1,870,245.98 /LS**	**1,870,246**	**2,716,438.09 /LS**	**2,716,438**
2294					**TRR Check Structure 4**											
	03.0				**Concrete Work**											
		03.11			**Cast-In-Place Concrete, Grade Walls**											
			MOA-03.25.017		**2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade**											
				03.10.00.24	**Concrete, Cast-in-Place, Grade Walls, 24" Thick**											
					Concrete pumping, subcontract, all inclusive price	45.00 cy		-	-	1,125	-	-	25.00 /cy	1,125	36.40 /cy	1,638
					Forms in place, structural walls, > 8' to 16' high, hand set	1,215.00 sf	376	40,716	1,519	-	-	-	34.76 /sf	42,235	50.70 /sf	61,602
					Concrete, ready mix, 4500 psi	45.00 CY		-	9,900	-	-	-	220.00 /CY	9,900	336.26 /CY	15,132
					Add for concrete waste, 4500 psi	2.25 cy		-	495	-	-	-	220.00 /cy	495	336.26 /cy	757
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	45.00 cy	34	3,051	-	-	-	-	67.79 /cy	3,051	98.70 /cy	4,442
					Patch & plug tieholes	1,215.00 sf	18	1,647	24	-	-	-	1.38 /sf	1,672	2.00 /sf	2,436
					Stone rub	1,215.00 sf	61	5,491	36	-	-	-	4.55 /sf	5,528	6.63 /sf	8,051
					Curing, membrane spray	1,215.00 sf	2	220	49	-	-	-	0.22 /sf	268	0.32 /sf	394
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	4.00 ton	64	7,488	6,000	-	-	-	3,372.03 /ton	13,488	5,018.28 /ton	20,073
					Reinforcing in place, unloading & sorting, add to above - slabs	4.00 ton	2	267	-	-	93	-	89.94 /ton	360	130.95 /ton	524

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	45.00 CY	557	58,880	18,023	1,125	93		1,736.01 /CY	78,121	2,556.59 /CY	115,047
					MOA-03.25.017 2'-0" thick CIP Wing Wall - 11'-3" Av. Height - Below Grade	**45.00 CY**	**557**	**58,880**	**18,023**	**1,125**	**93**		**1,736.01 /CY**	**78,121**	**2,556.59 /CY**	**115,047**
			MOA-03.25.019		**24" thick CIP Grade Wall - 13'-10" High - Below Grade**											
				03.10.00.24	Concrete, Cast-in-Place, Grade Walls, 24" Thick											
					Concrete pumping, subcontract, all inclusive price	371.07 cy		-	-	9,277	-	-	25.00 /cy	9,277	36.40 /cy	13,506
					Forms in place, structural walls, > 8' to 16' high, hand set	10,018.75 sf	3,099	335,738	12,523	-	-	-	34.76 /sf	348,262	50.70 /sf	507,961
					Concrete, ready mix, 4500 psi	371.07 CY		-	81,634	-	-	-	220.00 /CY	81,634	336.26 /CY	124,774
					Add for concrete waste, 4500 psi	18.55 cy		-	4,082	-	-	-	220.00 /cy	4,082	336.26 /cy	6,239
					Placing concrete, concrete pump, for structural wall >12" - 24" thick	371.07 cy	278	25,155	-	-	-	-	67.79 /cy	25,155	98.70 /cy	36,625
					Patch & plug tieholes	10,018.75 sf	150	13,584	200	-	-	-	1.38 /sf	13,784	2.00 /sf	20,084
					Stone rub	10,018.75 sf	501	45,279	301	-	-	-	4.55 /sf	45,580	6.63 /sf	66,384
					Curing, membrane spray	10,018.75 sf	20	1,811	401	-	-	-	0.22 /sf	2,212	0.32 /sf	3,250
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	32.50 ton	520	60,841	48,750	-	-	-	3,372.03 /ton	109,591	5,018.28 /ton	163,094
					Reinforcing in place, unloading & sorting, add to above - slabs	32.50 ton	18	2,170	-	-	754	-	89.94 /ton	2,923	130.95 /ton	4,256
					03.10.00.24 Concrete, Cast-in-Place, Grade Walls, 24" Thick	371.07 CY	4,587	484,578	147,891	9,277	754		1,731.50 /CY	642,500	2,549.88 /CY	946,173
					MOA-03.25.019 24" thick CIP Grade Wall - 13'-10" High - Below Grade	**371.07 CY**	**4,587**	**484,578**	**147,891**	**9,277**	**754**		**1,731.50 /CY**	**642,500**	**2,549.88 /CY**	**946,173**
					03.11 Cast-In-Place Concrete, Grade Walls	416.07 CY	5,144	543,458	165,914	10,402	846		1,731.99 /CY	720,620	2,550.61 /CY	1,061,219
		03.15			Cast-In-Place Concrete, Grade Beams											
			MOA-03.00.007		**1'-6" wide, 2'-0" Deep Grade Beam**											
				03.10.03.24	Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide											
					Fine grade, for slab on grade, by hand	195.00 sf	2	197	6	-	-	-	1.04 /sf	203	1.52 /sf	296
					Fill, gravel subbase, under building slab on grade	4.82 cy	4	348	135	-	-	-	100.29 /cy	483	148.05 /cy	713
					Concrete pumping, subcontract, all inclusive price	15.00 cy		-	-	375	-	-	25.00 /cy	375	36.40 /cy	546
					Forms in place, continuous footing, sides	520.00 sf	80	8,715	520	-	-	-	17.76 /sf	9,235	25.93 /sf	13,483
					Concrete, ready mix, 4500 psi	15.00 CY		-	3,300	-	-	-	220.00 /CY	3,300	336.26 /CY	5,044
					Add for concrete waste, 4500 psi	0.72 cy		-	159	-	-	-	220.00 /cy	159	336.27 /cy	243
					Placing concrete, concrete pump	15.00 cy	11	1,017	-	-	-	-	67.79 /cy	1,017	98.70 /cy	1,481
					Finishing footings, screed finish	195.00 sf	3	267	-	-	-	-	1.37 /sf	267	1.99 /sf	389
					Curing, water	195.00 sf	1	59	10	-	-	-	0.35 /sf	69	0.52 /sf	100
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.50 ton	24	2,808	2,250	-	-	-	3,372.03 /ton	5,058	5,018.27 /ton	7,527
					Reinforcing in place, unloading & sorting, add to above - slabs	1.50 ton	1	100	-	-	35	-	89.94 /ton	135	130.95 /ton	196
					03.10.03.24 Cast-In-Place Concrete, Grade Beams, 24" high x XX" wide	15.00 CY	126	13,511	6,379	375	35		1,353.34 /CY	20,300	2,001.23 /CY	30,018
					MOA-03.00.007 1'-6" wide, 2'-0" Deep Grade Beam	**15.00 CY**	**126**	**13,511**	**6,379**	**375**	**35**		**1,353.34 /CY**	**20,300**	**2,001.23 /CY**	**30,018**
					03.15 Cast-In-Place Concrete, Grade Beams	15.00 CY	126	13,511	6,379	375	35		1,353.34 /CY	20,300	2,001.23 /CY	30,018
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			MOA-03.20.010		**3'-0" thick Slab on Grade**											
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					Fine grade, for slab on grade, by hand	4,973.00 sf	56	5,035	149	-	-	-	1.04 /sf	5,184	1.52 /sf	7,559
					Fill, gravel subbase, under building slab on grade	276.28 cy	221	19,974	7,736	-	-	-	100.30 /cy	27,710	148.06 /cy	40,905
					Concrete pumping, subcontract, all inclusive price	553.00 cy		-	-	13,825	-	-	25.00 /cy	13,825	36.40 /cy	20,129
					Slab on grade edge forms, > 24"	1,128.00 sf	313	33,928	1,410	-	-	-	31.33 /sf	35,338	45.70 /sf	51,552
					Concrete, ready mix, 4500 psi	553.00 CY		-	121,660	-	-	-	220.00 /CY	121,660	336.26 /CY	185,952
					Add for concrete waste, 4500 psi	27.63 cy		-	6,078	-	-	-	220.00 /cy	6,078	336.26 /cy	9,290
					Placing concrete, concrete pump	553.00 cy	415	37,489	-	-	-	-	67.79 /cy	37,489	98.70 /cy	54,582
					Finishing floors, monolithic, trowel finish (machine)	4,973.00 sf	99	9,085	99	-	-	-	1.85 /sf	9,184	2.69 /sf	13,379
					Curing, membrane spray	4,973.00 sf	10	899	199	-	-	-	0.22 /sf	1,098	0.32 /sf	1,613
					Polyethelene vapor barrier, 10 mil thick	49.73 sq	11	1,179	527	-	-	-	34.30 /sq	1,706	50.71 /sq	2,522
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	48.50 ton	776	90,794	72,750	-	-	-	3,372.03 /ton	163,544	5,018.28 /ton	243,386
					Reinforcing in place, unloading & sorting, add to above - slabs	48.50 ton	27	3,238	-	-	1,125	-	89.94 /ton	4,362	130.95 /ton	6,351
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	553.00 CY	1,928	201,620	210,609	13,825	1,125		772.47 /CY	427,178	1,152.30 /CY	637,221
					MOA-03.20.010 3'-0" thick Slab on Grade	**553.00 CY**	**1,928**	**201,620**	**210,609**	**13,825**	**1,125**		**772.47 /CY**	**427,178**	**1,152.30 /CY**	**637,221**
					03.18 Cast-In-Place Concrete, Slabs on Grade	553.00 CY	1,928	201,620	210,609	13,825	1,125		772.47 /CY	427,178	1,152.30 /CY	637,221
		03.24			Cast-In-Place Concrete, Elevated Slabs											
			MOA-03.30.004		**1'-2" thick CIP Elevated Deck**											
				03.10.10.14	Cast-In-Place Concrete, Elevated Decks, 14" thick											
					Concrete pumping, subcontract, all inclusive price	132.09 cy		-	-	3,302	-	-	25.00 /cy	3,302	36.40 /cy	4,808
					Forms in place, elevated slab, soffit	3,057.00 sf	946	102,443	3,821	-	-	-	34.76 /sf	106,265	50.70 /sf	154,993
					Forms in place, elevated slab, edge form	435.17 sf	168	18,230	544	-	-	-	43.14 /sf	18,774	62.90 /sf	27,374
					Slab shoring	42,287.48 cf	459	49,700	2,114	-	-	-	1.23 /cf	51,814	1.79 /cf	75,592
					Concrete, ready mix, 4500 psi	132.09 CY		-	29,060	-	-	-	220.00 /CY	29,060	336.26 /CY	44,418
					Add for concrete waste, 4500 psi	6.61 cy		-	1,453	-	-	-	220.00 /cy	1,453	336.26 /cy	2,221
					Placing concrete, concrete pump, for elevated slab over 12" thick	132.09 cy	59	5,373	-	-	-	-	40.68 /cy	5,373	59.22 /cy	7,823
					Curing, membrane spray	3,057.00 sf	6	553	122	-	-	-	0.22 /sf	675	0.32 /sf	992
					Reinforcing Steel, in place, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	11.75 ton	188	21,996	17,625	-	-	-	3,372.03 /ton	39,621	5,018.28 /ton	58,965
					Reinforcing in place, unloading & sorting, add to above - slabs	11.75 ton	7	784	-	-	272	-	89.94 /ton	1,057	130.95 /ton	1,539
					Concrt fnshng,floors,basic fnshng for unspcf fltwrk,bull float,manual float&broom finish,inclds edging and joints,excluds placing,strikng off&cnsldtng	3,057.00 sf	40	3,618	-	-	-	-	1.18 /sf	3,618	1.72 /sf	5,268
					03.10.10.14 Cast-In-Place Concrete, Elevated Decks, 14" thick	132.09 CY	1,872	202,698	54,740	3,302	272		1,975.98 /CY	261,013	2,906.98 /CY	383,991
					MOA-03.30.004 1'-2" thick CIP Elevated Deck	**132.09 CY**	**1,872**	**202,698**	**54,740**	**3,302**	**272**		**1,975.98 /CY**	**261,013**	**2,906.98 /CY**	**383,991**
					03.24 Cast-In-Place Concrete, Elevated Slabs	132.09 CY	1,872	202,698	54,740	3,302	272		1,975.98 /CY	261,013	2,906.98 /CY	383,991
					03.0 Concrete Work	1,116.16 CY	9,070	961,286	437,643	27,904	2,278		1,280.38 /CY	1,429,111	1,892.61 /CY	2,112,450
	05.0				Metals											
		05.00			Metals											
			05.00.000		**Hand Railing**											
				05.50.04.10	Metals, Pipe and Tube Railings											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	95.00 LF	19	2,374	5,938	-	89	-	88.43 /LF	8,401	128.86 /LF	12,241
					05.50.04.10 Metals, Pipe and Tube Railings	95.00 LF	19	2,374	5,938		89		88.43 /LF	8,401	128.86 /LF	12,241
					05.00.000 Hand Railing	**95.00 LF**	**19**	**2,374**	**5,938**		**89**		**88.43 /LF**	**8,401**	**128.86 /LF**	**12,241**
			05.00.004		**Metal Grating**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				05.50.05.00	Metals, Gratings											
					Structural steel member, 100-ton project, 1 to 2 story building, W8x21, A992 steel, shop fabricated, incl shop primer, bolted connections	195.00 lf	18	2,261	7,410	-	892	-	54.17 /lf	10,563	78.91 /lf	15,388
					Floor grating, steel, gavy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., up to 300 S.F., field fabricated from panels	366.00 SF	76	9,449	19,398	-	6,520	-	96.63 /SF	35,367	139.70 /SF	51,130
					05.50.05.00 Metals, Gratings	**366.00 SF**	**94**	**11,710**	**26,808**		**7,412**		**125.49 /SF**	**45,929**	**181.74 /SF**	**66,518**
					05.00.004 Metal Grating	**366.00 SF**	**94**	**11,710**	**26,808**		**7,412**		**125.49 /SF**	**45,929**	**181.74 /SF**	**66,518**
					05.00 Metals	***1.00* LS**	**113**	**14,084**	**32,746**		**7,501**		**54,329.84 /LS**	**54,330**	**78,759.32 /LS**	**78,759**
					05.0 Metals	***1.00* LS**	**113**	**14,084**	**32,746**		**7,501**		**54,329.84 /LS**	**54,330**	**78,759.32 /LS**	**78,759**
	26.0				**Electrical Work**											
		26.25			**Electrical Equipment**											
			26.20.DIST		**Electrical Distribution Equipment**											
				26.00.99.00	**Electrical, Other**											
					Rigid galvanized steel plastic coated conduit, 40 mil. thick, 1-1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	60.00 lf	11	1,113	1,143	-	-	-	37.60 /lf	2,256	59.88 /lf	3,593
					Flexible metallic conduit, steel, 1-1/2" diameter	20.00 lf	3	334	51	-	-	-	19.24 /lf	385	30.12 /lf	602
					Flexible metallic conduit, steel, 2" diameter	3.00 lf	1	63	10	-	-	-	24.09 /lf	72	37.72 /lf	113
					Flexible metallic conduit, steel, connectors, insulated, 1-1/2" diameter	7.00 ea	2	183	172	-	-	-	50.58 /ea	354	80.47 /ea	563
					Flexible metallic conduit, steel, connectors, insulated, 2" diameter	1.00 ea	0	36	26	-	-	-	62.28 /ea	62	98.79 /ea	99
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 1-1/2" diameter	7.00 ea	2	254	322	-	-	-	82.28 /ea	576	131.37 /ea	920
					Flexible metallic conduit, steel, connectors, insulated, 90 Deg., 2" diameter	1.00 ea	0	46	67	-	-	-	113.36 /ea	113	181.23 /ea	181
					Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	4,125	-	-	-	7,105.49 /ea	7,105	11,354.89 /ea	11,355
					Panelboards, 3 phase 4 wire, main circuit breaker, 277/480 V, 225 amp, 42 circuits, NEHB, incl 20 A 1 pole plug-in breakers	1.00 ea	29	2,980	5,175	-	-	-	8,155.49 /ea	8,155	13,064.74 /ea	13,065
					26.00.99.00 Electrical, Other	***1.00* LS**	**77**	**7,989**	**11,090**				**19,079.46 /LS**	**19,079**	**30,490.80 /LS**	**30,491**
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Wire, copper, stranded, 600 volt, #6, type XHHW, in raceway	1.70 clf	2	218	93	-	-	-	182.89 /clf	311	288.53 /clf	491
					Wire, copper, stranded, 600 volt, #4, type XHHW, in raceway	1.70 clf	3	268	132	-	-	-	234.96 /clf	399	371.21 /clf	631
					Wire, copper, stranded, 600 volt, #1, type XHHW, in raceway	5.00 clf	10	1,043	795	-	-	-	367.63 /clf	1,838	583.55 /clf	2,918
					Wire, copper, stranded, 600 volt, 4/0, type XHHW, in raceway	5.00 clf	18	1,897	1,925	-	-	-	764.33 /clf	3,822	1,217.18 /clf	6,086
					26.15.01.00 Process Electrical, Wire/Cable	**13.40 clf**	**33**	**3,426**	**2,944**				**475.39 /clf**	**6,370**	**755.61 /clf**	**10,125**
				26.25.06.00	**Transformers, Dry Type**											
					Transformer, dry-type, ventilated, 3 phase 480 V primary 120/208 V secondary, 75 kVA	1.00 EA	23	2,384	2,500	-	-	-	4,884.39 /EA	4,884	7,781.16 /EA	7,781
					26.25.06.00 Transformers, Dry Type	**1.00 EA**	**23**	**2,384**	**2,500**				**4,884.39 /EA**	**4,884**	**7,781.16 /EA**	**7,781**
					26.20.DIST Electrical Distribution Equipment	***1.00* LS**	**132**	**13,799**	**16,535**				**30,334.03 /LS**	**30,334**	**48,397.15 /LS**	**48,397**
					26.25 Electrical Equipment	***1.00* LS**	**132**	**13,799**	**16,535**				**30,334.03 /LS**	**30,334**	**48,397.15 /LS**	**48,397**
					26.0 Electrical Work	***1.00* LS**	**132**	**13,799**	**16,535**				**30,334.03 /LS**	**30,334**	**48,397.15 /LS**	**48,397**
	34.0				**Transportation**											
		34.00			**Transportation**											
			05.00.005		**Vehicle Guard Rail**											
				34.71.00.00	**Roadway Construction**											
					Vehicle guide rails, corrugated steel, galvanized steel posts, install metal guide/guard rail, double face, wood posts 6'-3" O.C., 6" x 8" posts	169.00 LF	9	968	8,281	-	165	-	55.70 /LF	9,413	73.51 /LF	12,423
					Vehicle guide rails, guide/guard rail, steel box beam, shop curved	3.00 lf	1	71	222	-	13	-	102.07 /lf	306	133.57 /lf	401
					Vehicle guide rails, guide/guard rail, steel box beam, end assembly	2.00 ea	1	91	5,350	-	17	-	2,728.81 /ea	5,458	3,621.20 /ea	7,242
					Vehicle guide rails, guide/guard rail, steel box beam, corrugated beam	166.00 lf	10	906	10,209	-	166	-	67.96 /lf	11,281	89.81 /lf	14,908
					34.71.00.00 Roadway Construction	**169.00 LF**	**21**	**2,036**	**24,062**		**360**		**156.56 /LF**	**26,458**	**206.95 /LF**	**34,975**
					05.00.005 Vehicle Guard Rail	**169.00 LF**	**21**	**2,036**	**24,062**		**360**		**156.56 /LF**	**26,458**	**206.95 /LF**	**34,975**
					34.00 Transportation	***1.00* LS**	**21**	**2,036**	**24,062**		**360**		**26,458.09 /LS**	**26,458**	**34,974.66 /LS**	**34,975**
					34.0 Transportation	***1.00* LS**	**21**	**2,036**	**24,062**		**360**		**26,458.09 /LS**	**26,458**	**34,974.66 /LS**	**34,975**
	40.2				**Water Control Gates**											
		40.30			**Water Control Gates**											
			40.20.000		**Water Control Gates**											
				40.30.03.96	**Slide or Weir Gate, Rectangular, 96"**											
					Slide gates, hydraulic structures, steel, self contained, 96" x 96", incl. anchor bolts & grout	8.00 EA	711	89,953	176,000	-	21,013	-	35,870.71 /EA	286,966	46,646.99 /EA	373,176
					40.30.03.96 Slide or Weir Gate, Rectangular, 96"	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.20.000 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.30 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
					40.2 Water Control Gates	**8.00 EA**	**711**	**89,953**	**176,000**		**21,013**		**35,870.71 /EA**	**286,966**	**46,646.99 /EA**	**373,176**
	40.9				**Instrumentation**											
		40.90			**Instrumentation & Controls**											
			26.40.90		**I&C**											
				28.35.01.00	**Electronic Safety and Security**											
					I&C circuits	1.00 LS	160	16,691	10,000	-	-	-	26,690.72 /LS	26,691	42,254.56 /LS	42,255
					LCP100 and 120V feed	1.00 LS	80	8,345	10,000		-	-	18,345.36 /LS	18,345	29,269.55 /LS	29,270
					Radar and LITs (2)	1.00 LS	80	8,345	20,000		-	-	28,345.36 /LS	28,345	45,554.11 /LS	45,554
					28.35.01.00 Electronic Safety and Security	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.22 /LS**	**117,078**
					26.40.90 I&C	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.22 /LS**	**117,078**
					40.90 Instrumentation & Controls	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.22 /LS**	**117,078**
					40.9 Instrumentation	***1.00* LS**	**320**	**33,381**	**40,000**				**73,381.44 /LS**	**73,381**	**117,078.22 /LS**	**117,078**
					2294 TRR Check Structure 4	***1.00* LS**	**10,368**	**1,114,539**	**726,985**	**27,904**	**31,152**		**1,900,580.01 /LS**	**1,900,580**	**2,764,835.25 /LS**	**2,764,835**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	52,981,743		483,909.778	
Material	60,343,118			
Subcontractor	4,663,964			
Equipment	7,607,382		144,043.413	
Other				
Subtotal Direct Costs	**125,596,207**	**125,596,207**		
Material Sales Tax, Dunnigan Ca	4,374,876			7.250 %
Subtotal w/ Sales Tax	**4,374,876**	**129,971,083**		
Concrete Sub OH&P	8,187,739			20.000 %
Architectural (Div 4-12) OH&P	859,959			15.000 %
Mechanical Work OH&P	24,146			25.000 %
Electrical Work OH&P	4,400,080			30.000 %
Instruments & Controls OH&P	203,377			30.000 %
Subtotal w/ Sub Markup	**13,675,301**	**143,646,384**		
Mobilization/Demobilization	4,309,392			3.000 %
Prime Contractor Home OfficeOH	14,364,639			10.000 %
Prime Contractor Profit	9,739,225			6.000 %
Bonds & Insurance	3,733,694			2.170 %
Subtotal w/ Prime Markups	**32,146,950**	**175,793,334**		
OFCI Equip. - Vertical Turbine Pumps	10,043,094			
OFCI Equip. - Hydropower Generators	11,470,000			
Freight Allowance	1,075,655			5.000 %
Contractor MU on OFCI Equip	1,290,786			6.000 %
Subtotal w/ OFCI Equipment	**23,879,535**	**199,672,869**		
Contractor Contingency	5,990,186			3.000 %
Design Contingency	35,941,117			18.000 %
Subtotal w/ Continency	**41,931,303**	**241,604,172**		
Opinion of Probable Construction Costs		**241,604,172**		

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Appendix I
Package 6
PG&E POI Switchyard Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00	**General Conditions**	***1.00*** **LS**	**5,695,555.00 /LS**	**5,695,555**
01	**Substations for PG&E Connection**	***1.00*** **LS**	**31,757,618.63 /LS**	**31,757,619**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	12,767,725		84,094.485	
Material	22,320,682			
Subcontractor				
Equipment	2,364,767		29,844.798	
Other				
Subtotal w/ Prime Markups	**37,453,174**	**37,453,174**		
Contractor Contingency	1,872,659			5.000 %
Design Contingency	6,741,571			18.000 %
Opinion of Probable Construction Costs	**8,614,230**	**46,067,404**		

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Work Activity Summary Report

Project Name: PG&E - Point of Interconnection
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	*1.00* LS	9,801.77 /LS	9,802
			01.I5.005	GC Labor	*1.00* LS	2,265,771.37 /LS	2,265,771
			01.I5.010	Jobsite Office	*1.00* LS	660,906.32 /LS	660,906
			01.I5.011	Temporary Facilities	*1.00* LS	665,110.84 /LS	665,111
			01.I5.012	Temporary Services	*1.00* LS	225,221.80 /LS	225,222
			01.I5.013	Travel	*1.00* LS	659,345.65 /LS	659,346
			01.I5.014	Site Cleanup	*1.00* LS	122,831.12 /LS	122,831
			01.I5.014A	Site Safety	*1.00* LS	81,027.99 /LS	81,028
			01.I5.015	GC Equip, Tools, & Consumables	*1.00* LS	158,946.49 /LS	158,946
			01.I5.020	GC Indirect Services & Support	*1.00* LS	256,064.61 /LS	256,065
			01.I6.000	Quality Control	*1.00* LS	590,527.04 /LS	590,527
				01.01 Construction Operations	*24.00* MO	237,314.79 /MO	5,695,555
				01.0 General Requirements	*24.00* MO	237,314.79 /MO	5,695,555
				00 General Conditions	***1.00*** **LS**	**5,695,555.00 /LS**	**5,695,555**
01				**Substations for PG&E Connection**			
	01.0			General Requirements			
		01.01		Construction Operations			
			34.95.CONEQ	CONSTRUCTION EQUIPMENT	*1.00* LS	2,531,764.78 /LS	2,531,765
				01.01 Construction Operations	*24.00* MO	105,490.20 /MO	2,531,765
		01.06		Startup & Commissioning			
			34.90.CX	ENGINEERING, STARTUP, COMMISSIONING	*1.00* LS	1,334,430.72 /LS	1,334,431
				01.06 Startup & Commissioning	*1.00* LS	1,334,430.72 /LS	1,334,431
				01.0 General Requirements	*24.00* MO	161,091.48 /MO	3,866,196
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.10.CTRLFND	Control Station Foundation	*1.00* LS	37,797.18 /LS	37,797
				03.18 Cast-In-Place Concrete, Slabs on Grade	58.33 CY	647.96 /CY	37,797
				03.0 Concrete Work	58.33 CY	647.96 /CY	37,797
	05.0			Metals			
		05.50		Metal Fabrications			
			34.10.STEEL	Substation Steel Supports	*1.00* LS	5,340,653.16 /LS	5,340,653
				05.50 Metal Fabrications	*1.00* LS	5,340,653.16 /LS	5,340,653
				05.0 Metals	*1.00* LS	5,340,653.16 /LS	5,340,653
	13.0			Special Construction			
		13.01		Buildings Complete			
			26.00.HOUSE	Substation Control House	*1.00* LS	3,421,780.52 /LS	3,421,781
				13.01 Buildings Complete	*1.00* LS	3,421,780.52 /LS	3,421,781
				13.0 Special Construction	*1.00* LS	3,421,780.52 /LS	3,421,781
	26.0			Electrical Work			
		26.00		Electrical			
			26.10.CABLE	Substation Cabling	*1.00* LS	305,566.98 /LS	305,567
			26.10.COND.UG	Conduit and Raceways - Underground	1,780.00 LF	843.70 /LF	1,501,780
			26.10.GRID	Substation Ground Grid	*234,375.00* SF	4.09 /SF	958,010
			26.10.LTG	Substation Lighting	*1.00* LS	290,743.10 /LS	290,743
				26.00 Electrical	*1.00* LS	3,056,099.92 /LS	3,056,100
		26.25		Facility Electrical			
			34.10.SUBEQ	Substation Equipment	*1.00* LS	14,621,984.05 /LS	14,621,984
				26.25 Facility Electrical	*1.00* LS	14,621,984.05 /LS	14,621,984
				26.0 Electrical Work	*1.00* LS	17,678,083.97 /LS	17,678,084
	31.0			Earthwork			
		31.17		Piling and Caissons			
			31.TYPE.A	Substation Equipment Foundation 30"Rx54" Type A - D3/6001	*141.00* EA	1,503.30 /EA	211,965
			31.TYPE.B	Substation Equipment Foundation 36"Rx54" Type B - A3/6001	*92.00* EA	1,707.64 /EA	157,103
			31.TYPE.C	Substation Equipment Foundation 60"Rx168" Type C - A5/6001	*6.00* EA	13,624.11 /EA	81,745
			31.TYPE.D	Substation Equipment Foundation 36"Rx72" Type D - C8/6001	*19.00* EA	2,975.40 /EA	56,533
				31.17 Piling and Caissons	1,320.50 LF	384.21 /LF	507,345
				31.0 Earthwork	314.95 CY	1,610.88 /CY	507,345
	32.0			Exterior Improvements			
		32.12		Paving			
			32.00.006	Substation Gravel Surfacing	24,041.66 SY	33.28 /SY	800,029
				32.12 Paving	24,041.66 SY	33.28 /SY	800,029
		32.31		Fencing			
			32.00.004	Substation Fencing	1,948.00 LF	54.28 /LF	105,734
				32.31 Fencing	1,948.00 LF	54.28 /LF	105,734
				32.0 Exterior Improvements	*1.00* LS	905,762.95 /LS	905,763
				01 Substations for PG&E Connection	***1.00*** **LS**	**31,757,618.63 /LS**	**31,757,619**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	12,767,725		84,094.485	
Material	22,320,682			
Subcontractor				
Equipment	2,364,767		29,844.798	
Other				

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Estimate Totals

Subtotal w/ Prime Markups	**37,453,174**	**37,453,174**	
Contractor Contingency	1,872,659		5.000 %
Design Contingency	6,741,571		18.000 %
Opinion of Probable Construction Costs	**8,614,230**	**46,067,404**	

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Detail Report
Project Name: PG&E - Point of Interconnection
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
00					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	98.02 /ea	9,802
					01.01.05.00 General Conditions, Other	*24.00* MO			7,500				312.50 /MO	7,500	408.41 /MO	9,802
					01.I5.000 General Conditions, Other	*1.00* LS			7,500				7,500.00 /LS	7,500	9,801.77 /LS	9,802
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Manager	12.00 mo	1,920	299,520	-	-	-	-	24,960.00 /mo	299,520	30,810.70 /mo	369,728
					Superintendent	24.00 MO	3,840	460,800	-	-	-	-	19,200.00 /MO	460,800	23,700.54 /MO	568,813
					Field Engineer	24.00 mo	3,840	364,800	-	-	-	-	15,200.00 /mo	364,800	18,762.92 /mo	450,310
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	29,625.67 /mo	355,508
					Site Skilled Labor	24.00 mo	3,840	422,400	-	-	-	-	17,600.00 /mo	422,400	21,725.49 /mo	521,412
					01.01.06.01 GC Labor	24.00 MO	15,360	1,835,520					76,480.00 /MO	1,835,520	94,407.14 /MO	2,265,771
					01.I5.005 GC Labor	*1.00* LS	15,360	1,835,520					1,835,520.00 /LS	1,835,520	2,265,771.37 /LS	2,265,771
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,920.72 /ea	3,921
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	653.45 /mo	15,683
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,069.04 /ea	13,069
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	653.45 /mo	15,683
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,172.68 /mo	28,144
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	7,979.23 /ea	7,979
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	15,958.45 /ea	15,958
					Field Office Set-up	1.00 ea	180	19,392	-		10,800	-	30,192.12 /ea	30,192	37,269.25 /ea	37,269
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	7,979.23 /ea	7,979
					Field Office Trailer Rent (60 x 12) (2)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,287.08 /mo	109,780
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,012.85 /ea	2,026
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	980.18 /mo	47,048
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,306.91 /ea	1,307
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	71,879.67 /ea	71,880
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,603.54 /ea	19,604
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	84,949.70 /ea	84,949
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	189.50 /mo	4,548
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,603.54 /ea	19,604
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,254.41 /mo	54,106
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	457.42 /mo	10,978
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,724.67 /mo	89,392
					01.01.06.00 Project Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	660,906.32 /LS	660,906
					01.I5.010 Jobsite Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	660,906.32 /LS	660,906
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.81 /sy	70,441
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.81 /sy	4,403
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.81 /sy	8,805
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.51 /lf	23,222
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,823.88 /ea	11,648
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,787.54 /ea	9,575
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	4,966.23 /MO	119,190
					Guard Shack - Rent	24.00 mo		-	28,800	-	-	-	1,200.00 /mo	28,800	1,568.28 /mo	37,639
					Site Security Services	24.00 mo		269,880	-		-	-	11,245.00 /mo	269,880	13,880.86 /mo	333,141
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	470.49 /ea	47,049
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	517	328,939	185,400		13,584		21,996.78 /MO	527,923	27,712.95 /MO	665,111
					01.I5.011 Temporary Facilities	*1.00* LS	517	328,939	185,400		13,584		527,922.69 /LS	527,923	665,110.84 /LS	665,111
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	60,000	-	-	-	2,500.00 /MO	60,000	3,267.26 /MO	78,414
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,534.51 /ls	6,535
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	466.75 /mo	11,202
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,336.29 /ls	16,336
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,057.34 /mo	49,376
					Hand Washing Station (2)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	209.10 /mo	10,037
					Portable Toilets (2)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	490.09 /mo	23,524
					Janitorial Service (2)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	620.78 /mo	29,797
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO		40,000	134,551				7,272.98 /MO	174,551	9,384.24 /MO	225,222
					01.I5.012 Temporary Services	*1.00* LS		40,000	134,551				174,551.45 /LS	174,551	225,221.80 /LS	225,222
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	36.00 mo		-	116,910	-	-		3,247.50 /mo	116,910	4,244.17 /mo	152,790
					Construction Delivery - Air Fare (mgmt 1 flight per month)	36.00 ea		-	13,500	-	-	0	375.00 /ea	13,500	490.09 /ea	17,643
					Business travel - Air Fare	36.00 ea		-	19,800	-	-	0	550.00 /ea	19,800	718.80 /ea	25,877
					Business travel - Hotel	180.00 day		-	24,300	-	-	0	135.00 /day	24,300	176.43 /day	31,758
					Business travel - Rental Car	180.00 day		-	13,500	-	-	0	75.00 /day	13,500	98.02 /day	17,643
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	36.00 mo		-	162,000	-	-		4,500.00 /mo	162,000	5,881.06 /mo	211,718
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,881.06 /MO	141,146
					Personnel moving expense for 4 GC Management Staff	3.00 EA		-	16,500	-	-		5,500.00 /EA	16,500	7,187.97 /EA	21,564
					Personnel moving expense for 8 specialty workers	6.00 EA		-	30,000	-	-		5,000.00 /EA	30,000	6,534.52 /EA	39,207
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			504,510				21,021.25 /MO	504,510	27,472.74 /MO	659,346
					01.I5.013 Travel	*1.00* LS			504,510				504,510.00 /LS	504,510	659,345.65 /LS	659,346
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	208	18,776	-	-	-	-	180.54 /wk	18,776	222.85 /wk	23,177

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Detail Report
Project Name: PG&E - Point of Interconnection
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,568.28 /MO	37,639
					Dumpster Pulls	24.00 ea		-	18,600	-	-	-	775.00 /ea	18,600	1,012.85 /ea	24,308
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	37,707.09 /ls	37,707
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	808	46,676	49,900				4,023.99 /MO	96,576	5,117.96 /MO	122,831
					01.I5.014 Site Cleanup	***1.00*** **LS**	**808**	**46,676**	**49,900**				**96,575.74 /LS**	**96,576**	**122,831.12 /LS**	**122,831**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,345.16 /ls	65,345
					First Aid Consumables	24.00 MO		-	12,000	-	-	-	500.00 /MO	12,000	653.45 /MO	15,683
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			62,000				2,583.33 /MO	62,000	3,376.17 /MO	81,028
					01.I5.014A Site Safety	***1.00*** **LS**			**62,000**				**62,000.00 /LS**	**62,000**	**81,027.99 /LS**	**81,028**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,002.34 /mo	36,084
					Yard Pickup Truck (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,002.34 /mo	36,084
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	980.18 /ea	1,960
					Small Tools (~0.5% Labor)	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,345.15 /ls	65,345
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	326.73 /MO	7,841
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	130.69 /mo	3,137
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,494.86 /ea	8,495
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			66,400		58,464		124,864.00 /LS	124,864	158,946.49 /LS	158,946
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**66,400**		**58,464**		**124,864.00 /LS**	**124,864**	**158,946.49 /LS**	**158,946**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,362.43 /ea	16,362
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	359.40 /ea	7,188
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	457.42 /MO	10,978
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	32,672.58 /ea	32,673
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,510.91 /day	188,864
					01.01.06.04 GC Indirect Services & Support	24.00 MO	1,000	95,000	51,420		58,000		8,517.50 /MO	204,420	10,669.36 /MO	256,065
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**95,000**	**51,420**		**58,000**		**204,420.00 /LS**	**204,420**	**256,064.61 /LS**	**256,065**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	24,605.29 /MO	590,527
					01-01-06-01 GC Labor	24.00 MO	4,160	478,391					19,932.95 /MO	478,391	24,605.29 /MO	590,527
					01.I6.000 Quality Control	***1.00*** **LS**	**4,160**	**478,391**					**478,390.80 /LS**	**478,391**	**590,527.04 /LS**	**590,527**
					01.01 Construction Operations	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	237,314.79 /MO	5,695,555
					01.0 General Requirements	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	237,314.79 /MO	5,695,555
					00 General Conditions	***1.00*** **LS**	**22,265**	**2,869,773**	**1,492,911**		**163,648**		**4,526,332.96 /LS**	**4,526,333**	**5,695,555.00 /LS**	**5,695,555**
01					**Substations for PG&E Connection**											
	01.0				General Requirements											
		01.01			Construction Operations											
			34.95.CONEQ		**CONSTRUCTION EQUIPMENT**											
				33.71.91.01	Power Substation											
					Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	104.00 week	4,160	513,885	-	-	357,107	-	8,374.92 /week	870,992	10,338.03 /week	1,075,155
					Crane crew, daily use for small jobs, 25-ton truck-mounted hydraulic crane, portal to portal	250.00 day	2,000	260,450	-	-	579,686	-	3,360.54 /day	840,136	4,148.27 /day	1,037,066
					Crane crew, daily use for small jobs, 100-ton truck-mounted hydraulic crane, portal to portal	60.00 day	960	118,020	-	-	135,902	-	4,232.05 /day	253,923	5,224.05 /day	313,443
					Rent crawler mounted, lattice boom crane, 165 ton, 60' boom	30.00 day		-	-	-	79,470	-	2,649.00 /day	79,470	3,269.93 /day	98,098
					Mobilization or demobilization, delivery charge for equipment, on flatbed trailer behind pickup truck	2.00 ea	4	395	-	-	175	-	284.83 /ea	570	351.59 /ea	703
					Mobilization or demobilization, crane, truck-mounted, up to 75 ton, (driver only, one-way)	2.00 ea	2	289	-	-	-	-	144.70 /ea	289	178.61 /ea	357
					Mobilization or demobilization, crane, truck-mounted, over 75 ton	2.00 ea	13	1,468	-	-	156	-	812.35 /ea	1,625	1,002.76 /ea	2,006
					Mobilization or demobilization, crane, crawler-mounted, over 75 ton	2.00 ea	21	2,447	-	-	1,552	-	1,999.59 /ea	3,999	2,468.29 /ea	4,937
					33.71.91.01 Power Substation	***1.00*** LS	7,160	896,955			1,154,049		2,051,003.46 /LS	2,051,003	2,531,764.78 /LS	2,531,765
					34.95.CONEQ CONSTRUCTION EQUIPMENT	***1.00*** **LS**	**7,160**	**896,955**			**1,154,049**		**2,051,003.46 /LS**	**2,051,003**	**2,531,764.78 /LS**	**2,531,765**
					01.01 Construction Operations	***24.00*** MO	7,160	896,955			1,154,049		85,458.48 /MO	2,051,003	105,490.20 /MO	2,531,765
		01.06			Startup & Commissioning											
			34.90.CX		**ENGINEERING, STARTUP, COMMISSIONING**											
				33.71.91.01	Power Substation											
					Testing	400.00 hrs	400	47,580		-	-	-	118.95 /hrs	47,580	146.83 /hrs	58,733
					Startup, Commissioning, Training, Documentation, Warranty	400.00 hrs	400	47,580		-	-	-	118.95 /hrs	47,580	146.83 /hrs	58,733
					Power Engineering, Seismic Engineering	2,000.00 hrs	2,000	440,000	50,000	-	-	-	245.00 /hrs	490,000	304.24 /hrs	608,482
					Protective Device Coordination Stidy	2,000.00 hrs	2,000	440,000	50,000	-	-	-	245.00 /hrs	490,000	304.24 /hrs	608,482
					33.71.91.01 Power Substation	***1.00*** LS	4,800	975,160	100,000				1,075,160.00 /LS	1,075,160	1,334,430.72 /LS	1,334,431
					34.90.CX ENGINEERING, STARTUP, COMMISSIONING	***1.00*** **LS**	**4,800**	**975,160**	**100,000**				**1,075,160.00 /LS**	**1,075,160**	**1,334,430.72 /LS**	**1,334,431**
					01.06 Startup & Commissioning	***1.00*** LS	4,800	975,160	100,000				1,075,160.00 /LS	1,075,160	1,334,430.72 /LS	1,334,431
					01.0 General Requirements	***24.00*** MO	11,960	1,872,115	100,000		1,154,049		130,256.81 /MO	3,126,163	161,091.48 /MO	3,866,196
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.10.CTRLFND		**Control Station Foundation**											
				03.10.05.12	Cast-In-Place Concrete, Slabs on Grade, 12" thick											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	9.26 cy		-	398	-	-	-	43.00 /cy	398	56.20 /cy	520
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	18.52 cy		-	546	-	-	-	29.50 /cy	546	38.55 /cy	714
					Underslab vapor barrier, visqueen membrane to 6 mil	1,500.00 sf	3	353	84	-	-	-	0.29 /sf	437	0.36 /sf	546
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	3.00 ton	48	5,616	4,500	-	-	-	3,372.03 /ton	10,116	4,271.20 /ton	12,814
					Reinforcing in place, unloading & sorting, add to above - slabs	3.00 ton	2	200	-	-	70	-	89.94 /ton	270	111.03 /ton	333
					Reinforcing in place, crane cost for handling, add to above, slabs	3.00 ton	2	218	-	-	76	-	97.76 /ton	293	120.68 /ton	362
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	58.33 CY		-	12,833	-	-	-	220.00 /CY	12,833	287.52 /CY	16,772

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.12	Cast-In-Place Concrete, Slabs on Grade, 12" thick											
					Structural concrete, placing, foundation mat, direct chute, over 20 C.Y., includes strike off & consolidation, excludes material	58.33 cy	8	733	-	-	10	-	12.73 /cy	743	15.72 /cy	917
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	1,500.00 sf	21	1,915	-	-	76	-	1.33 /sf	1,991	1.64 /sf	2,458
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	1,500.00 sf	6	577	375	-	-	-	0.63 /sf	952	0.80 /sf	1,202
					Curing, sprayed membrane curing compound	15.00 csf	3	230	240	-	-	-	31.33 /csf	470	39.83 /csf	597
					Fine grading, fine grade for slab on grade, machine	166.67 sy	3	277	-	-	178	-	2.73 /sy	455	3.37 /sy	562
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	**58.33 CY**	**95**	**10,119**	**18,977**		**409**		**505.81 /CY**	**29,505**	**647.96 /CY**	**37,797**
					03.10.CTRLFND Control Station Foundation	***1.00* LS**	**95**	**10,119**	**18,977**		**409**		**29,505.25 /LS**	**29,505**	**37,797.18 /LS**	**37,797**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**58.33 CY**	**95**	**10,119**	**18,977**		**409**		**505.81 /CY**	**29,505**	**647.96 /CY**	**37,797**
					03.0 Concrete Work	**58.33 CY**	**95**	**10,119**	**18,977**		**409**		**505.81 /CY**	**29,505**	**647.96 /CY**	**37,797**
	05.0				**Metals**											
		05.50			**Metal Fabrications**											
			34.10.STEEL		**Substation Steel Supports**											
				33.71.91.01	**Power Substation**											
					Welding structural steel, 4 passes, 0.7 Lb/LF, 1/2" thick, continuous fillet, type 6011	1,740.00 lf	633	80,814	4,872	-	11,869	-	56.07 /lf	97,555	69.41 /lf	120,775
					Structural steel project, fossil fuel power station, 100-ton project, A992 steel, shop fabricated, incl shop primer, bolted connections, maximum	434.00 ton	9,746	1,213,831	2,137,450	-	246,460	-	8,289.73 /ton	3,597,741	10,589.92 /ton	4,596,027
					Column base plates, structural, light, 100-ton project, up to 150 lb each, A992 steel, shop fabricated, incl shop primer	173,765.00 lb	1,390	172,400	314,515	-	-	-	2.80 /lb	486,915	3.59 /lb	623,851
					33.71.91.01 Power Substation	***1.00* LS**	**11,769**	**1,467,044**	**2,456,837**		**258,329**		**4,182,210.00 /LS**	**4,182,210**	**5,340,653.16 /LS**	**5,340,653**
					34.10.STEEL Substation Steel Supports	***1.00* LS**	**11,769**	**1,467,044**	**2,456,837**		**258,329**		**4,182,210.00 /LS**	**4,182,210**	**5,340,653.16 /LS**	**5,340,653**
					05.50 Metal Fabrications	***1.00* LS**	**11,769**	**1,467,044**	**2,456,837**		**258,329**		**4,182,210.00 /LS**	**4,182,210**	**5,340,653.16 /LS**	**5,340,653**
					05.0 Metals	***1.00* LS**	**11,769**	**1,467,044**	**2,456,837**		**258,329**		**4,182,210.00 /LS**	**4,182,210**	**5,340,653.16 /LS**	**5,340,653**
	13.0				**Special Construction**											
		13.01			**Buildings Complete**											
			26.00.HOUSE		**Substation Control House**											
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Control House	1.00 ea	1,200	125,180	2,500,000	-	-	-	2,625,180.40 /ea	2,625,180	3,421,780.52 /ea	3,421,781
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,421,780.52 /LS**	**3,421,781**
					26.00.HOUSE Substation Control House	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,421,780.52 /LS**	**3,421,781**
					13.01 Buildings Complete	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,421,780.52 /LS**	**3,421,781**
					13.0 Special Construction	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,421,780.52 /LS**	**3,421,781**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.10.CABLE		**Substation Cabling**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Tray cable, type TC, copper, 600 V, #12-4 conductor	300.00 clf	364	37,933	38,400	-	-	-	254.44 /clf	76,333	323.37 /clf	97,010
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 3 conductor	300.00 clf	400	41,727	6,150	-	-	-	159.59 /clf	47,877	198.48 /clf	59,545
					Innerduct	195.00 clf	195	20,342	4,388	-	-	-	126.82 /clf	24,729	158.17 /clf	30,844
					FO cable	225.00 clf	225	23,471	7,538	-	-	-	137.82 /clf	31,009	172.55 /clf	38,824
					Unshielded twisted pair (UTP) cable, stranded, PVC jacket, #24, 4 pair, category 6	300.00 clf	343	35,766	7,350	-	-	-	143.72 /clf	43,116	179.18 /clf	53,755
					Coaxial cable, 75 ohm, RG A/U #59 cable	150.00 clf	150	15,648	4,800	-	-	-	136.32 /clf	20,448	170.59 /clf	25,589
					26.15.01.00 Process Electrical, Wire/Cable	***1.00* LS**	**1,676**	**174,887**	**68,625**				**243,511.78 /LS**	**243,512**	**305,566.98 /LS**	**305,567**
					26.10.CABLE Substation Cabling	***1.00* LS**	**1,676**	**174,887**	**68,625**				**243,511.78 /LS**	**243,512**	**305,566.98 /LS**	**305,567**
			26.10.COND.UG		**Conduit and Raceways - Underground**											
				26.25.01.00	**Cable Trench**											
					Parking barriers, wheel stops, thermoplastic, 6" x 10" x 6'-0"	600.00 ea	200	18,345	32,100	-	-	-	84.07 /ea	50,445	107.66 /ea	64,596
					Cable Trench 3x2x10' section with lid	1,780.00 LF	2,492	266,504	410,112	-	105,963	-	439.65 /LF	782,579	559.41 /LF	995,751
					Cable Trench 3x2 end plate	4.00 ea	8	856	1,000	-	238	-	523.42 /ea	2,094	664.24 /ea	2,657
					26.25.01.00 Cable Trench	**1,780.00 LF**	**2,700**	**285,705**	**443,212**		**106,201**		**469.17 /LF**	**835,118**	**597.19 /LF**	**1,063,005**
				31.20.07.10	**Earthworks, Sitework, Excavating**											
					Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	100.00 CY	16	1,728	-	-	189	-	19.17 /CY	1,917	23.66 /CY	2,366
					Excavating, trench or continuous footing, common earth, 5/8 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	983.11 CY	63	6,960	-	-	3,262	-	10.40 /CY	10,221	12.83 /CY	12,617
					Excavating, bulk bank measure, 2-1/4 C.Y. capacity = 100 C.Y./hour, wheel mounted, excluding truck loading	1,637.00 CY	33	3,722	-	-	1,375	-	3.11 /CY	5,097	3.84 /CY	6,292
					31.20.07.10 Earthworks, Sitework, Excavating	**2,720.11 CY**	**112**	**12,410**			**4,826**		**6.34 /CY**	**17,235**	**7.82 /CY**	**21,275**
				31.20.07.15	**Earthworks, Sitework, Backfill**											
					Reinforcing Steel, in place, beams and girders, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	17.21 ton	344	40,272	24,524	-	-	-	3,765.04 /ton	64,796	4,750.89 /ton	81,763
					Borrow, common earth, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel-mounted	1,932.00 CY	48	5,491	55,062	-	925	-	31.82 /CY	61,478	41.35 /CY	79,881
					Bedding, crushed stone 3/4" to 1/2"	134.69 lcy	22	2,195	5,186	-	254	-	56.68 /lcy	7,634	72.76 /lcy	9,800
					Concrete (red) envelope/encasement, poured neat	688.11 cy	447	40,997	53,329	-	494	-	137.80 /cy	94,820	175.72 /cy	120,912
					End bulkheads, plywood, concrete envelope/encasement	400.00 sf	48	5,002	292	-	-	-	13.23 /sf	5,294	16.39 /sf	6,556
					Plywood side forms, concrete envelope/encasement	10,400.00 sfca	416	43,455	24,336	-	-	-	6.52 /sfca	67,791	8.22 /sfca	85,446
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	788.00 lcy	81	8,016	-	-	7,364	-	19.52 /lcy	15,380	24.09 /lcy	18,985
					Load Excavated Spoils for Haul Off	788.00 cy	12	1,344		-	1,192	-	3.22 /cy	2,536	3.97 /cy	3,130
					Compaction, 3 passes, 6" lifts, towed vibrating roller	1,932.00 bcy	58	6,589	-	-	2,344	-	4.62 /bcy	8,934	5.71 /bcy	11,028
					31.20.07.15 Earthworks, Sitework, Backfill	**1,932.00 CY**	**1,476**	**153,361**	**162,728**		**12,574**		**170.12 /CY**	**328,663**	**216.10 /CY**	**417,500**
					26.10.COND.UG Conduit and Raceways - Underground	**1,780.00 LF**	**4,287**	**451,476**	**605,940**		**123,600**		**663.49 /LF**	**1,181,016**	**843.70 /LF**	**1,501,780**
			26.10.GRID		**Substation Ground Grid**											
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 5/8" diameter	100.00 ea	145	15,173	2,200	-	-	-	173.73 /ea	17,373	216.05 /ea	21,605
					Compression Connector/Splice	1,250.00 ea	500	52,159	46,250	-	-	-	78.73 /ea	98,409	99.86 /ea	124,829
					Grounding rod, copper clad, 15' long, 3/4" diameter	250.00 ea	500	52,159	25,500	-	-	-	310.63 /ea	77,659	390.84 /ea	97,711
					Ground wire, copper wire, bare stranded, #4	3.00 clf	3	313	477	-	-	-	263.32 /clf	790	336.56 /clf	1,010
					Ground wire, copper wire, bare stranded, 1/0	1.00 clf	2	209	330	-	-	-	538.63 /clf	539	688.81 /clf	689
					Ground wire, copper wire, bare stranded, 250 kcmil	255.00 clf	850	88,669	207,825	-	-	-	1,162.72 /clf	296,494	1,494.36 /clf	381,061

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.15.11.00	Process Electrical, Grounding											
					Ground wire, aluminum wire, bare stranded, #4	10.00 clf	10	1,043	335	-	-	-	137.82 /clf	1,378	172.55 /clf	1,726
					Exothermic weld	1,150.00 ea	1,150	119,965	5,302	-	-	-	108.93 /ea	125,266	134.79 /ea	155,013
					Exothermic weld, mold reusable for above	200.00 ea		-	33,200	-	-	-	166.00 /ea	33,200	216.95 /ea	43,389
					Gate Grounding Detail D1/5001	2.00 ea	6	626	400	-	-	-	512.96 /ea	1,026	647.70 /ea	1,295
					Fence Grounding Detail C7/5001	100.00 ea	200	20,863	20,000	-	-	-	408.63 /ea	40,863	518.92 /ea	51,892
					Post Grounding Detail D4/5001	100.00 ea	300	31,295	20,000	-	-	-	512.95 /ea	51,295	647.69 /ea	64,769
					Switch Operator Platform 3x4	25.00 ea	25	2,608	7,500	-	-	-	404.32 /ea	10,108	520.84 /ea	13,021
					26.15.11.00 Process Electrical, Grounding	***26,900.00*** **LF**	**3,691**	**385,082**	**369,319**				**28.04 /LF**	**754,400**	**35.61 /LF**	**958,010**
					26.10.GRID Substation Ground Grid	***234,375.00*** **SF**	**3,691**	**385,082**	**369,319**				**3.22 /SF**	**754,400**	**4.09 /SF**	**958,010**
			26.10.LTG		**Substation Lighting**											
				26.15.07.00	Lighting											
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	165.00 clf	132	13,770	7,425	-	-	-	128.45 /clf	21,195	161.83 /clf	26,701
					Grounding of pole	4.00 ea	2	209	72	-	-	-	70.16 /ea	281	87.91 /ea	352
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,100.00 lf	110	11,475	5,324	-	-	-	15.27 /lf	16,799	19.20 /lf	21,123
					Fixture	90.00 ea	180	18,777	135,000	-	-	-	1,708.63 /ea	153,777	2,217.89 /ea	199,610
					Light poles w/ anchor base, aluminum, to 30' high	4.00 EA	32	3,578	10,000	-	787	-	3,591.39 /EA	14,366	4,614.47 /EA	18,458
					Avg cost, concrete pole base, max. 6'0" buried, 2'0" exposed, 18" dia.	4.00 ea	16	1,669	3,800	-	-	-	1,367.27 /ea	5,469	1,756.64 /ea	7,027
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 1" diameter, schedule 40, installed by direct burial in slab or duct bank	2,750.00 lf	85	8,827	5,033	-	-	-	5.04 /lf	13,859	6.35 /lf	17,473
					26.15.07.00 Lighting	**4.00 EA**	**557**	**58,305**	**166,654**		**787**		**56,436.33 /EA**	**225,745**	**72,685.77 /EA**	**290,743**
					26.10.LTG Substation Lighting	***1.00*** **LS**	**557**	**58,305**	**166,654**		**787**		**225,745.33 /LS**	**225,745**	**290,743.10 /LS**	**290,743**
					26.00 Electrical	***1.00*** **LS**	**10,212**	**1,069,749**	**1,210,537**		**124,387**		**2,404,673.35 /LS**	**2,404,673**	**3,056,099.92 /LS**	**3,056,100**
		26.25			**Facility Electrical**											
			34.10.SUBEQ		**Substation Equipment**											
				33.71.91.01	Power Substation											
					ACSR 397.5kcmil IBIS	7,000.00 lf	490	51,115	14,000	-	-	-	9.30 /lf	65,115	11.63 /lf	81,394
					AAC 1431kcmil CARNATION 1999	4,000.00 lf	360	37,554	13,000	-	-	-	12.64 /lf	50,554	15.84 /lf	63,347
					AAC 4/0 OXLIP 296	200.00 lf	12	1,252	300	-	-	-	7.76 /lf	1,552	9.69 /lf	1,937
					SF6 CB 3000A 230kV	9.00 ea	900	107,055	1,620,000	-	-	-	191,895.00 /ea	1,727,055	249,925.76 /ea	2,249,332
					Air Disconnect Switch 3000A manual vert 3ph 230kV	6.00 ea	240	28,548	266,667	-	-	-	49,202.50 /ea	295,215	63,957.94 /ea	383,748
					CVT 230kV	24.00 ea	384	45,677	1,800,000	-	-	-	76,903.20 /ea	1,845,677	100,367.04 /ea	2,408,809
					MVCT 230kV	18.00 ea	288	34,258	1,350,000	-	-	-	76,903.20 /ea	1,384,258	100,367.04 /ea	1,806,607
					LA 230kV	18.00 ea	288	34,258	1,350,000	-	-	-	76,903.20 /ea	1,384,258	100,367.04 /ea	1,806,607
					Post Insulator 900kV BIL	200.00 ea	1,600	190,320	1,000,000	-	-	-	5,951.60 /ea	1,190,320	7,709.17 /ea	1,541,835
					Swaged XJ PLK2600D	50.00 ea	200	23,790	60,000	-	-	-	1,675.80 /ea	83,790	2,155.61 /ea	107,781
					Swaged Bus Support PLK2230D	200.00 ea	800	95,160	50,000	-	-	-	725.80 /ea	145,160	914.05 /ea	182,811
					Swaged Tee 5 to (2)3" PLK1600D	36.00 ea	144	17,129	14,400	-	-	-	875.80 /ea	31,529	1,110.09 /ea	39,963
					Swaged Term Pad PLK1850D	50.00 ea	200	23,790	20,000	-	-	-	875.80 /ea	43,790	1,110.09 /ea	55,505
					Swaged Tee 5 to 3" PLK1500D	72.00 ea	288	34,258	28,800	-	-	-	875.80 /ea	63,058	1,110.09 /ea	79,926
					Swaged Tee 3 to (2)3" PLK1500D	72.00 ea	288	34,258	28,800	-	-	-	875.80 /ea	63,058	1,110.09 /ea	79,926
					Swaged Tee 5 to 4/0 CL430D64	18.00 ea	72	8,564	7,200	-	-	-	875.80 /ea	15,764	1,110.09 /ea	19,982
					SQD H326NR 600A FU DS	2.00 ea	24	2,855	2,400	-	-	-	2,627.40 /ea	5,255	3,330.28 /ea	6,661
					Ground Stirrup 5" Bus	24.00 ea	96	11,419	10,800	-	-	-	925.80 /ea	22,219	1,175.44 /ea	28,210
					Air Disconnect Switch 3000A manual center 3ph 230kV	18.00 ea	720	85,644	800,000	-	-	-	49,202.44 /ea	885,644	63,957.87 /ea	1,151,242
					Bus 3" (2.6# per lf)	2,600.00 lb	1,040	108,490	31,200	-	0	-	53.73 /lb	139,690	67.19 /lb	174,695
					Bus 5" (5.0# per lf)	35,000.00 lb	14,000	1,460,438	420,000	-	0	-	53.73 /lb	1,880,438	67.19 /lb	2,351,668
					33.71.91.01 Power Substation	***1.00*** **LS**	**22,434**	**2,435,830**	**8,887,567**				**11,323,397.33 /LS**	**11,323,397**	**14,621,984.05 /LS**	**14,621,984**
					34.10.SUBEQ Substation Equipment	***1.00*** **LS**	**22,434**	**2,435,830**	**8,887,567**				**11,323,397.33 /LS**	**11,323,397**	**14,621,984.05 /LS**	**14,621,984**
					26.25 Facility Electrical	***1.00*** **LS**	**22,434**	**2,435,830**	**8,887,567**				**11,323,397.33 /LS**	**11,323,397**	**14,621,984.05 /LS**	**14,621,984**
					26.0 Electrical Work	***1.00*** **LS**	**32,646**	**3,505,579**	**10,098,104**		**124,387**		**13,728,070.68 /LS**	**13,728,071**	**17,678,083.97 /LS**	**17,678,084**
	31.0				Earthwork											
		31.17			Piling and Caissons											
			31.TYPE.A		**Substation Equipment Foundation 30"Rx54" Type A - D3/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	115.34 cy		-	17,301	-	-	-	150.00 /cy	17,301	218.54 /cy	25,205
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	115.48 CY	12	1,175	1,155	-	1,079	-	29.52 /CY	3,409	41.59 /CY	4,803
					Load excavated spoils	115.48 cy	1	164		-	146	-	2.68 /cy	310	3.71 /cy	429
					Mobilization for rig	141.00 ea	282	34,597	-	-	828	-	251.24 /ea	35,425	347.82 /ea	49,043
					Fixd end cssn pils,open styl stbl grnd,50'd,30"dm,0.182 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	634.50 LF	635	64,878	21,890	-	3,694	-	142.57 /LF	90,462	199.88 /LF	126,823
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	3,109.05 lb		-	3,886	-	-	-	1.25 /lb	3,886	1.82 /lb	5,662
					31.17.02.00 Earthworks, Caissons	**634.50 LF**	**930**	**100,814**	**44,232**		**5,747**		**237.66 /LF**	**150,793**	**334.07 /LF**	**211,965**
					31.TYPE.A Substation Equipment Foundation 30"Rx54" Type A - D3/6001	***141.00*** **EA**	**930**	**100,814**	**44,232**		**5,747**		**1,069.45 /EA**	**150,793**	**1,503.30 /EA**	**211,965**
			31.TYPE.B		**Substation Equipment Foundation 36"Rx54" Type B - A3/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	108.38 cy		-	16,256	-	-	-	150.00 /cy	16,256	218.54 /cy	23,684
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	75.35 CY	8	766	754	-	704	-	29.52 /CY	2,224	41.59 /CY	3,134
					Load excavated spoils	75.35 cy	1	107		-	95	-	2.68 /cy	202	3.71 /cy	280
					Mobilization for rig	92.00 ea	184	22,574	-	-	540	-	251.24 /ea	23,114	347.82 /ea	32,000
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	414.00 LF	414	42,332	20,493	-	2,893	-	158.74 /LF	65,717	223.34 /LF	92,465
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	3,042.90 lb		-	3,804	-	-	-	1.25 /lb	3,804	1.82 /lb	5,542
					31.17.02.00 Earthworks, Caissons	**414.00 LF**	**607**	**65,779**	**41,307**		**4,232**		**268.88 /LF**	**111,318**	**379.48 /LF**	**157,103**
					31.TYPE.B Substation Equipment Foundation 36"Rx54" Type B - A3/6001	***92.00*** **EA**	**607**	**65,779**	**41,307**		**4,232**		**1,209.97 /EA**	**111,318**	**1,707.64 /EA**	**157,103**
			31.TYPE.C		**Substation Equipment Foundation 60"Rx168" Type C - A5/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	87.27 cy		-	13,090	-	-	-	150.00 /cy	13,090	218.54 /cy	19,071
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	87.24 CY	9	887	872	-	815	-	29.52 /CY	2,575	41.59 /CY	3,628
					Load excavated spoils	87.24 cy	1	124		-	110	-	2.68 /cy	234	3.71 /cy	324

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.17.02.00	Earthworks, Caissons											
					Mobilization for rig, average cost per vlf, add	6.00 ea	12	1,472	-	-	35	-	251.24 /ea	1,507	347.82 /ea	2,087
					Fixd end cssn pils,open styl stbl grnd,50'd,60"dm,0.727 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	120.00 LF	120	12,270	16,560	-	1,164	-	249.95 /LF	29,994	356.04 /LF	42,725
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	7,638.00 lb		-	9,548	-	-	-	1.25 /lb	9,548	1.82 /lb	13,910
					31.17.02.00 Earthworks, Caissons	**120.00 LF**	**142**	**14,754**	**40,070**		**2,125**		**474.57 /LF**	**56,948**	**681.21 /LF**	**81,745**
					31.TYPE.C Substation Equipment Foundation 60"Rx168" Type C - A5/6001	***6.00*** **EA**	**142**	**14,754**	**40,070**		**2,125**		**9,491.40 /EA**	**56,948**	**13,624.11 /EA**	**81,745**
			31.TYPE.D		**Substation Equipment Foundation 36"Rx72" Type D - C8/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	53.05 cy		-	7,957	-	-	-	150.00 /cy	7,957	218.54 /cy	11,593
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	36.88 CY	4	375	369	-	345	-	29.52 /CY	1,089	41.59 /CY	1,534
					Load excavated spoils	36.88 cy	0	52		-	46	-	2.68 /cy	99	3.71 /cy	137
					Mobilization for rig	19.00 ea	38	4,662	-	-	112	-	251.24 /ea	4,774	347.82 /ea	6,609
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	152.00 LF	152	15,542	7,524	-	1,062	-	158.74 /LF	24,128	223.34 /LF	33,948
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	1,489.22 lb		-	1,862	-	-	-	1.25 /lb	1,862	1.82 /lb	2,712
					31.17.02.00 Earthworks, Caissons	**152.00 LF**	**194**	**20,632**	**17,712**		**1,565**		**262.55 /LF**	**39,908**	**371.93 /LF**	**56,533**
					31.TYPE.D Substation Equipment Foundation 36"Rx72" Type D - C8/6001	***19.00*** **EA**	**194**	**20,632**	**17,712**		**1,565**		**2,100.41 /EA**	**39,908**	**2,975.40 /EA**	**56,533**
					31.17 Piling and Caissons	**1,320.50 LF**	**1,873**	**201,978**	**143,320**		**13,668**		**271.84 /LF**	**358,967**	**384.21 /LF**	**507,345**
					31.0 Earthwork	**314.95 CY**	**1,873**	**201,978**	**143,320**		**13,668**		**1,139.76 /CY**	**358,967**	**1,610.88 /CY**	**507,345**
	32.0				**Exterior Improvements**											
		32.12			**Paving**											
			32.00.006		**Substation Gravel Surfacing**											
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Clear and Grubbing Project Site	24,041.66 sy	144	15,641		-	9,309	-	1.04 /sy	24,951	1.44 /sy	34,542
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	330.00 CY	34	3,357	3,300	-	3,084	-	29.52 /CY	9,741	41.59 /CY	13,725
					Load excavated spoils	330.00 cy	4	469	0	-	416	-	2.68 /cy	885	3.71 /cy	1,225
					Erosion Controls Allowance	1.00 ls	120	12,221	5,000	-	1,414	-	18,634.60 /ls	18,635	26,160.30 /ls	26,160
					31.15.01.00 Site Preparation, Clearing and Grubbing	**330.00 CY**	**302**	**31,688**	**8,300**		**14,223**		**164.28 /CY**	**54,211**	**229.25 /CY**	**75,652**
				32.40.04.00	Site Improvements, Access Roads, Gravel											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	24,041.66 SY	192	20,775	-	-	13,379	-	1.42 /SY	34,154	1.97 /SY	47,283
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	8,005.87 cy	160	18,463	-	-	30,183	-	6.08 /cy	48,646	8.41 /cy	67,346
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	8,005.87 cy	821	81,438	-	-	74,819	-	19.52 /cy	156,257	27.02 /cy	216,323
					Load excavated spoils	8,005.87 cy	75	8,533		-	7,569	-	2.01 /cy	16,102	2.78 /cy	22,291
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,6"deep	24,041.66 sy	285	31,199	175,504	-	22,090	-	9.52 /sy	228,793	13.70 /sy	329,466
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	24,041.66 sy	165	18,742	-	-	11,356	-	1.25 /sy	30,098	1.73 /sy	41,668
					32.40.04.00 Site Improvements, Access Roads, Gravel	**24,041.66 SY**	**1,698**	**179,150**	**175,504**		**159,397**		**21.38 /SY**	**514,051**	**30.13 /SY**	**724,378**
					32.00.006 Substation Gravel Surfacing	**24,041.66 SY**	**2,000**	**210,838**	**183,804**		**173,620**		**23.64 /SY**	**568,262**	**33.28 /SY**	**800,029**
					32.12 Paving	**24,041.66 SY**	**2,000**	**210,838**	**183,804**		**173,620**		**23.64 /SY**	**568,262**	**33.28 /SY**	**800,029**
		32.31			**Fencing**											
			32.00.004		**Substation Fencing**											
				32.45.01.00	Fencing, Chain Link											
					Fence Security Signage	40.00 ea	40	3,743	1,400	-	-	-	128.58 /ea	5,143	180.55 /ea	7,222
					Fence,chain link industrial,galvanized steel,3 strands barb wire,2"posts @ 10'oc,9ga wire,6'high,schedule 40,includes excavation,& concrete	1,948.00 LF	195	18,230	38,863	-	3,429	-	31.07 /LF	60,521	44.46 /LF	86,604
					Fence, chain link industrial, gate, galvanized steel, 4' wide, 5' high, 2" frame, includes excavation, in concrete	3.00 ea	7	674	687	-	127	-	495.84 /ea	1,488	703.05 /ea	2,109
					Fence, chain link industrial, double swing gates, 8' high, 20' opening, includes excavation, posts & hardware in concrete	2.00 opng	44	4,501	1,720	-	767	-	3,494.01 /opng	6,988	4,899.47 /opng	9,799
					32.45.01.00 Fencing, Chain Link	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**54.28 /LF**	**105,734**
					32.00.004 Substation Fencing	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**54.28 /LF**	**105,734**
					32.31 Fencing	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**54.28 /LF**	**105,734**
					32.0 Exterior Improvements	***1.00*** **LS**	**2,286**	**237,986**	**226,474**		**177,943**		**642,402.26 /LS**	**642,402**	**905,762.95 /LS**	**905,763**
					01 Substations for PG&E Connection	***1.00*** **LS**	**61,830**	**7,420,002**	**15,543,711**		**1,728,785**		**24,692,498.81 /LS**	**24,692,499**	**31,757,618.63 /LS**	**31,757,619**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	10,289,776		84,094.485	
Material	17,036,623			
Subcontractor				
Equipment	1,892,433		29,844.798	
Other				
Subtotal Direct Costs	**29,218,832**	**29,218,832**		
Material Sales Tax, Dunnigan Ca	1,235,155			7.250 %
Subtotal w/ Sales Tax	**1,235,155**	**30,453,987**		
Site/Civil OH&P	150,205			15.000 %
Subtotal w/ Sub Markups	**150,205**	**30,604,192**		
Mobilization/Demobilization	918,126			3.000 %
Prime Contractor Home OfficeOH	3,060,419			10.000 %
Prime Contractor Profit	2,074,964			6.000 %
Bonds & Insurance	795,472			2.170 %
Subtotal w/ Prime Markups	**6,848,981**	**37,453,173**		
Contractor Contingency	1,872,659			5.000 %
Design Contingency	6,741,571			18.000 %
Subtotal w/ Contingency	**8,614,230**	**46,067,403**		
Opinion of Probable Construction Costs		**46,067,403**		

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Appendix J
Package 7
230-kV Transmission Lines
Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00	**General Conditions**	***1.00*** **LS**	**5,699,841.33 /LS**	**5,699,841**
11.1	**230 kv Transmission Lines - TRR to Funks**	***3.00*** **MI**	**7,054,360.41 /MI**	**21,163,081**
11.2	**230 kv Transmission Lines - TRR to PG&E**	***0.20*** **MI**	**8,773,552.30 /MI**	**1,754,710**
11.3	**230 kv Transmission Lines - TRR to TRR Sub**	***0.20*** **MI**	**10,173,794.75 /MI**	**2,034,759**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	12,549,269		81,299.720	
Material	14,538,527			
Subcontractor	1,431,781			
Equipment	2,132,815		27,472.760	
Other				
Subtotal w/ Prime Markups	**30,652,392**	**30,652,392**		
Contractor Contingency	1,532,620			5.000 %
Design Contingency	5,517,431			18.000 %
Opinion of Probable Construction Costs	**7,050,051**	**37,702,443**		
Total		***37,702,443***		

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Work Activity Summary Report

Project Name: Sites Reservoir Project 230kv Transmission Lines
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00				General Conditions			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	9,444.47 /LS	9,444
			01.I5.005	GC Labor	1.00 LS	2,311,401.50 /LS	2,311,402
			01.I5.010	Jobsite Office	1.00 LS	642,322.45 /LS	642,322
			01.I5.011	Temporary Facilities	1.00 LS	664,793.24 /LS	664,793
			01.I5.012	Temporary Services	1.00 LS	219,806.09 /LS	219,806
			01.I5.013	Travel	1.00 LS	635,310.52 /LS	635,311
			01.I5.014	Site Cleanup	1.00 LS	121,614.20 /LS	121,614
			01.I5.014A	Site Safety	1.00 LS	78,074.28 /LS	78,074
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	157,236.55 /LS	157,237
			01.I5.020	GC Indirect Services & Support	1.00 LS	257,418.45 /LS	257,418
			01.I6.000	Quality Control	1.00 LS	602,419.58 /LS	602,420
				01.01 Construction Operations	24.00 MO	237,493.39 /MO	5,699,841
				01.0 General Requirements	24.00 MO	237,493.39 /MO	5,699,841
				00 General Conditions	1.00 LS	5,699,841.33 /LS	5,699,841
11.1				230 kv Transmission Lines - TRR to Funks			
	26.0			Electrical Work			
		26.00		Electrical			
			34.09.FNDT	T-LINE FOUNDATIONS	3.00 MO	1,514,760.09 /MO	4,544,280
			34.11.STRC	T-LINE STRUCTURES	6.00 MO	1,788,374.46 /MO	10,730,247
			34.13.WIRE	T-LINE WIRE WORK	3.00 MO	1,194,876.57 /MO	3,584,630
				26.00 Electrical	1.00 LS	18,859,156.73 /LS	18,859,157
				26.0 Electrical Work	1.00 LS	18,859,156.73 /LS	18,859,157
	31.0			Earthwork			
		31.22		Earthworks, Site			
			34.07.MISC	MISC, SUPERVISION, ROADS & MATTING	1.00 LS	2,303,924.50 /LS	2,303,925
				31.22 Earthworks, Site	1.00 LS	2,303,924.50 /LS	2,303,925
				31.0 Earthwork	1.00 LS	2,303,924.50 /LS	2,303,925
				11.1 230 kv Transmission Lines - TRR to Funks	3.00 MI	7,054,360.41 /MI	21,163,081
11.2				230 kv Transmission Lines - TRR to PG&E			
	26.0			Electrical Work			
		26.00		Electrical			
			34.09.FNDT	T-LINE FOUNDATIONS	0.50 MO	448,096.30 /MO	224,048
			34.11.STRC	T-LINE STRUCTURES	1.00 MO	1,100,243.06 /MO	1,100,243
			34.13.WIRE	T-LINE WIRE WORK	0.50 MO	687,270.88 /MO	343,635
				26.00 Electrical	1.00 LS	1,667,926.65 /LS	1,667,927
				26.0 Electrical Work	1.00 LS	1,667,926.65 /LS	1,667,927
	31.0			Earthwork			
		31.22		Earthworks, Site			
			34.07.MISC	MISC, SUPERVISION, ROADS & MATTING	1.00 LS	86,783.81 /LS	86,784
				31.22 Earthworks, Site	1.00 LS	86,783.81 /LS	86,784
				31.0 Earthwork	1.00 LS	86,783.81 /LS	86,784
				11.2 230 kv Transmission Lines - TRR to PG&E	0.20 MI	8,773,552.30 /MI	1,754,710
11.3				230 kv Transmission Lines - TRR to TRR Sub			
	26.0			Electrical Work			
		26.00		Electrical			
			34.09.FNDT	T-LINE FOUNDATIONS	0.50 MO	611,426.68 /MO	305,713
			34.11.STRC	T-LINE STRUCTURES	1.00 MO	1,278,939.63 /MO	1,278,940
			34.13.WIRE	T-LINE WIRE WORK	0.50 MO	726,644.34 /MO	363,322
				26.00 Electrical	1.00 LS	1,947,975.14 /LS	1,947,975
				26.0 Electrical Work	1.00 LS	1,947,975.14 /LS	1,947,975
	31.0			Earthwork			
		31.22		Earthworks, Site			
			34.07.MISC	MISC, SUPERVISION, ROADS & MATTING	1.00 LS	86,783.81 /LS	86,784
				31.22 Earthworks, Site	1.00 LS	86,783.81 /LS	86,784
				31.0 Earthwork	1.00 LS	86,783.81 /LS	86,784
				11.3 230 kv Transmission Lines - TRR to TRR Sub	0.20 MI	10,173,794.75 /MI	2,034,759

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	12,549,269		81,299.720	
Material	14,538,527			
Subcontractor	1,431,781			
Equipment	2,132,815		27,472.760	
Other				
Subtotal w/ Prime Markups	**30,652,392**	**30,652,392**		
Contractor Contingency	1,532,620			5.000 %
Design Contingency	5,517,431			18.000 %
Opinion of Probable Construction Costs	**7,050,051**	**37,702,443**		
Total		***37,702,443***		

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Detail Report
Project Name: Sites Reservoir Project 230kv Transmission Lines
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
00					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	94.44 /ea	9,444
					01.01.05.00 General Conditions, Other	*24.00* MO			7,500				312.50 /MO	7,500	393.52 /MO	9,444
					01.I5.000 General Conditions, Other	*1.00* LS			7,500				7,500.00 /LS	7,500	9,444.47 /LS	9,444
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Manager	12.00 mo	1,920	299,520	-	-	-	-	24,960.00 /mo	299,520	31,431.19 /mo	377,174
					Superintendent	24.00 MO	3,840	460,800	-	-	-	-	19,200.00 /MO	460,800	24,177.84 /MO	580,268
					Field Engineer	24.00 mo	3,840	364,800	-	-	-	-	15,200.00 /mo	364,800	19,140.79 /mo	459,379
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	30,222.30 /mo	362,668
					Site Skilled Labor	24.00 mo	3,840	422,400	-	-	-	-	17,600.00 /mo	422,400	22,163.02 /mo	531,912
					01.01.06.01 GC Labor	24.00 MO	15,360	1,835,520					76,480.00 /MO	1,835,520	96,308.40 /MO	2,311,402
					01.I5.005 GC Labor	*1.00* LS	15,360	1,835,520					1,835,520.00 /LS	1,835,520	2,311,401.50 /LS	2,311,402
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,777.77 /ea	3,778
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	629.63 /mo	15,111
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	12,592.63 /ea	12,593
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	629.63 /mo	15,111
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,196.30 /mo	28,711
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	8,139.93 /ea	8,140
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	16,279.84 /ea	16,280
					Field Office Set-up	1.00 ea	180	19,392	-		10,800	-	30,192.12 /ea	30,192	38,019.80 /ea	38,020
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	8,139.92 /ea	8,140
					Field Office Trailer Rent (60 x 12) (2)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,203.71 /mo	105,778
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	975.93 /ea	1,952
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	944.45 /mo	45,333
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,259.25 /ea	1,259
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	69,259.45 /ea	69,259
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	18,888.93 /ea	18,889
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	81,852.07 /ea	81,852
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	182.59 /mo	4,382
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	18,888.93 /ea	18,889
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,172.23 /mo	52,133
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	440.74 /mo	10,578
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,588.90 /mo	86,134
					01.01.06.00 Project Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	642,322.45 /LS	642,322
					01.I5.010 Jobsite Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	642,322.45 /LS	642,322
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.83 /sy	70,676
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.83 /sy	4,417
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.83 /sy	8,835
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.44 /lf	23,098
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,852.41 /ea	11,705
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,883.96 /ea	9,768
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	4,785.20 /MO	114,845
					Guard Shack - Rent	24.00 mo		-	28,800	-	-	-	1,200.00 /mo	28,800	1,511.12 /mo	36,267
					Site Security Services	24.00 mo		269,880	-		-	-	11,245.00 /mo	269,880	14,160.41 /mo	339,850
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	453.33 /ea	45,333
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	517	328,939	185,400		13,584		21,996.78 /MO	527,923	27,699.72 /MO	664,793
					01.I5.011 Temporary Facilities	*1.00* LS	517	328,939	185,400		13,584		527,922.69 /LS	527,923	664,793.24 /LS	664,793
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	60,000	-	-	-	2,500.00 /MO	60,000	3,148.16 /MO	75,556
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,296.31 /ls	6,296
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	449.74 /mo	10,794
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	15,740.79 /ls	15,741
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,098.77 /mo	50,371
					Hand Washing Station (2)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	201.48 /mo	9,671
					Portable Toilets (2)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	472.22 /mo	22,667
					Janitorial Service (2)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	598.15 /mo	28,711
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO		40,000	134,551				7,272.98 /MO	174,551	9,158.59 /MO	219,806
					01.I5.012 Temporary Services	*1.00* LS		40,000	134,551				174,551.45 /LS	174,551	219,806.09 /LS	219,806
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	36.00 mo		-	116,910	-	-		3,247.50 /mo	116,910	4,089.46 /mo	147,220
					Construction Delivery - Air Fare (mgmt 1 flight per month)	36.00 ea		-	13,500	-	-	0	375.00 /ea	13,500	472.22 /ea	17,000
					Business travel - Air Fare	36.00 ea		-	19,800	-	-	0	550.00 /ea	19,800	692.59 /ea	24,933
					Business travel - Hotel	180.00 day		-	24,300	-	-	0	135.00 /day	24,300	170.00 /day	30,600
					Business travel - Rental Car	180.00 day		-	13,500	-	-	0	75.00 /day	13,500	94.44 /day	17,000
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	36.00 mo		-	162,000	-	-		4,500.00 /mo	162,000	5,666.68 /mo	204,001
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,666.68 /MO	136,000
					Personnel moving expense for 4 GC Management Staff	3.00 EA		-	16,500	-	-		5,500.00 /EA	16,500	6,925.95 /EA	20,778
					Personnel moving expense for 8 specialty workers	6.00 EA		-	30,000	-	-		5,000.00 /EA	30,000	6,296.31 /EA	37,778
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			504,510				21,021.25 /MO	504,510	26,471.27 /MO	635,311
					01.I5.013 Travel	*1.00* LS			504,510				504,510.00 /LS	504,510	635,310.52 /LS	635,311
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	208	18,776	-	-	-	-	180.54 /wk	18,776	227.34 /wk	23,644

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Detail Report

Project Name: Sites Reservoir Project 230kv Transmission Lines
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,511.12 /MO	36,267
					Dumpster Pulls	24.00 ea		-	18,600	-	-	-	775.00 /ea	18,600	975.93 /ea	23,422
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,281.57 /ls	38,282
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	808	46,676	49,900				4,023.99 /MO	96,576	5,067.26 /MO	121,614
					01.I5.014 Site Cleanup	***1.00*** **LS**	**808**	**46,676**	**49,900**				**96,575.74 /LS**	**96,576**	**121,614.20 /LS**	**121,614**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	62,963.12 /ls	62,963
					First Aid Consumables	24.00 MO		-	12,000	-	-	-	500.00 /MO	12,000	629.63 /MO	15,111
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			62,000				2,583.33 /MO	62,000	3,253.10 /MO	78,074
					01.I5.014A Site Safety	***1.00*** **LS**			**62,000**				**62,000.00 /LS**	**62,000**	**78,074.28 /LS**	**78,074**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,022.52 /mo	36,811
					Yard Pickup Truck (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,022.52 /mo	36,811
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	944.45 /ea	1,889
					Small Tools (~0.5% Labor)	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	62,963.12 /ls	62,963
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	314.82 /MO	7,556
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	125.93 /mo	3,022
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,185.20 /ea	8,185
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			66,400		58,464		124,864.00 /LS	124,864	157,236.55 /LS	157,237
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**66,400**		**58,464**		**124,864.00 /LS**	**124,864**	**157,236.55 /LS**	**157,237**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	15,765.97 /ea	15,766
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	346.30 /ea	6,926
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	440.74 /MO	10,578
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	31,481.56 /ea	31,482
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,541.34 /day	192,667
					01.01.06.04 GC Indirect Services & Support	24.00 MO	1,000	95,000	51,420		58,000		8,517.50 /MO	204,420	10,725.77 /MO	257,418
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**95,000**	**51,420**		**58,000**		**204,420.00 /LS**	**204,420**	**257,418.45 /LS**	**257,418**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	25,100.82 /MO	602,420
					01-01-06-01 GC Labor	24.00 MO	4,160	478,391					19,932.95 /MO	478,391	25,100.82 /MO	602,420
					01.I6.000 Quality Control	***1.00*** **LS**	**4,160**	**478,391**					**478,390.80 /LS**	**478,391**	**602,419.58 /LS**	**602,420**
					01.01 Construction Operations	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	237,493.39 /MO	5,699,841
					01.0 General Requirements	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	237,493.39 /MO	5,699,841
					00 General Conditions	***1.00*** **LS**	**22,265**	**2,869,773**	**1,492,911**		**163,648**		**4,526,332.96 /LS**	**4,526,333**	**5,699,841.33 /LS**	**5,699,841**
11.1					**230 kv Transmission Lines - TRR to Funks**											
	26.0				Electrical Work											
		26.00			Electrical											
			34.09.FNDT		**T-LINE FOUNDATIONS**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent auger, truck-mounted, for caissons, water wells	135.00 day		-	-	-	104,099	-	771.10 /day	104,099	1,125.24 /day	151,907
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	135.00 day		-	-	-	85,016	-	629.75 /day	85,016	918.97 /day	124,061
					Rent crane truck mounted, hydraulic, 12 ton capacity	135.00 day		-	-	-	63,585	-	471.00 /day	63,585	687.31 /day	92,787
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS					252,700		252,699.75 /LS	252,700	368,755.27 /LS	368,755
				33.71.91.00	Transmission Line											
					Reinforcing Steel, western mill, A615, grade 40, mill base price, material only	98.05 ton	1,569	183,553	147,075	-	-	-	3,372.03 /ton	330,628	4,920.68 /ton	482,473
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	4,000.00 cy		-	880,000	-	-	-	220.00 /cy	880,000	321.04 /cy	1,284,151
					Anchor bolt, L-type, 2-bolt set, plain steel, 2" dia x 60" L, incl nut & washer, job-built 2-hole template	40.00 set		-	64,000	-	-	-	1,600.00 /set	64,000	2,334.82 /set	93,393
					Mobilization	1.00 ls	200	21,018	-	-	-	-	21,018.20 /ls	21,018	30,671.07 /ls	30,671
					Foundation 8' dia x 25' caisson, culvert cost in mat'l	26.00 ea	6,300	662,073	65,000	-	-	-	27,964.36 /ea	727,073	40,807.34 /ea	1,060,991
					Foundation 11' dia x 30' caisson, culvert cost in mat'l	17.00 ea	5,800	609,528	85,000	-	-	-	40,854.58 /ea	694,528	59,617.55 /ea	1,013,498
					Demobilization	1.00 ls	200	21,018	-	-	-	-	21,018.20 /ls	21,018	30,671.08 /ls	30,671
					Surface Restorations at Foundations	43.00 ea	516	52,550	64,500	-	6,079	-	2,863.46 /ea	123,129	4,178.54 /ea	179,677
					33.71.91.00 Transmission Line	***1.00*** LS	14,585	1,549,740	1,305,575		6,079		2,861,394.04 /LS	2,861,394	4,175,525.01 /LS	4,175,525
					34.09.FNDT T-LINE FOUNDATIONS	***3.00*** **MO**	**14,585**	**1,549,740**	**1,305,575**		**258,779**		**1,038,031.26 /MO**	**3,114,094**	**1,514,760.09 /MO**	**4,544,280**
			34.11.STRC		**T-LINE STRUCTURES**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	135.00 day		-	-	-	85,016	-	629.75 /day	85,016	918.97 /day	124,061
					Rent forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	135.00 day		-	-	-	72,117	-	534.20 /day	72,117	779.54 /day	105,238
					Rent crane truck mount, cable 8x4 drive 90 ton, 15' radius	135.00 day		-	-	-	228,960	-	1,696.00 /day	228,960	2,474.91 /day	334,113
					Rent crane truck mounted, hydraulic, 12 ton capacity	135.00 day		-	-	-	63,585	-	471.00 /day	63,585	687.31 /day	92,787
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS					449,678		449,678.25 /LS	449,678	656,198.61 /LS	656,199
				33.71.91.00	Transmission Line											
					Mobilization	1.00 LS	400	42,036	-	-	-	-	42,036.40 /LS	42,036	61,342.13 /LS	61,342
					Install Steel Double Circuit Suspension Pole	7.00 ea	2,688	282,485	875,000	-	-	-	165,354.94 /ea	1,157,485	241,296.27 /ea	1,689,074
					Install Steel Single Circuit Deadend Pole	7.00 ea	3,100	325,782	805,000	-	-	-	161,540.30 /ea	1,130,782	235,729.69 /ea	1,650,108
					Install Steel Double Circuit Heavy Angle Deadend Pole	17.00 ea	9,792	1,029,051	2,720,000	-	-	-	220,532.42 /ea	3,749,051	321,814.68 /ea	5,470,850
					Install Steel Single Circuit H-Deadend Structure	6.00 ea	2,304	242,130	540,000	-	-	-	130,354.94 /ea	782,130	190,222.08 /ea	1,141,332
					Demobilization	1.00 ls	400	42,036	-	-	-	-	42,036.40 /ls	42,036	61,342.16 /ls	61,342
					33.71.91.00 Transmission Line	***1.00*** LS	18,684	1,963,520	4,940,000				6,903,520.21 /LS	6,903,520	10,074,048.13 /LS	10,074,048
					34.11.STRC T-LINE STRUCTURES	***6.00*** **MO**	**18,684**	**1,963,520**	**4,940,000**		**449,678**		**1,225,533.08 /MO**	**7,353,198**	**1,788,374.46 /MO**	**10,730,247**
			34.13.WIRE		**T-LINE WIRE WORK**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent dozer, crawler, torque converter, diesel 200 HP	76.00 day		-	-	-	114,304	-	1,504.00 /day	114,304	2,194.73 /day	166,800
					Rent trailer with cable reel for high voltage line work	76.00 day		-	-	-	4,872	-	64.10 /day	4,872	93.54 /day	7,109

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent trailer with cable tensioning rig, for high voltage line work	76.00 day		-	-	-	8,390	-	110.40 /day	8,390	161.10 /day	12,244
					Rent trailer with cable pulling rig, for high voltage line work	76.00 day		-	-	-	46,143	-	607.15 /day	46,143	885.99 /day	67,335
					Rent crane truck mount, cable 8x4 drive 40 ton, 12' radius	76.00 day		-	-	-	154,128	-	2,028.00 /day	154,128	2,959.38 /day	224,913
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS					327,837		327,837.40 /LS	327,837	478,400.81 /LS	478,401
				33.71.91.00	Transmission Line											
					ACSR 795kcmil	100,000.00 lf	3,802	399,556	500,000	-		-	9.00 /lf	899,556	13.13 /lf	1,312,688
					ACSR 1590kcmil	5,000.00 lf		-	35,000	-		-	7.00 /lf	35,000	10.21 /lf	51,074
					Overhead line conductors & devices, insulators and hardware, primary circuits, disk insulators, 345 to 500 kV	37.00 ea	1,300	136,618	444,000	-		-	15,692.39 /ea	580,618	22,899.31 /ea	847,275
					Overhead line conductors & devices, OPGW	32,000.00 lf	3,300	346,800	72,000	-		-	13.09 /lf	418,800	19.10 /lf	611,140
					Overhead line conductors & devices, shield wire	16,000.00 lf	900	94,582	16,000	-		-	6.91 /lf	110,582	10.09 /lf	161,368
					Mobilization	1.00 ls	400	42,036	-	-	-	-	42,036.40 /ls	42,036	61,342.16 /ls	61,342
					Demobilization	1.00 ls	400	42,036	-	-	-	-	42,036.40 /ls	42,036	61,342.13 /ls	61,342
					33.71.91.00 Transmission Line	*1.00* LS	10,102	1,061,629	1,067,000				2,128,629.30 /LS	2,128,629	3,106,228.90 /LS	3,106,229
					34.13.WIRE T-LINE WIRE WORK	*3.00* MO	10,102	1,061,629	1,067,000		327,837		818,822.23 /MO	2,456,467	1,194,876.57 /MO	3,584,630
					26.00 Electrical	*1.00* LS	43,371	4,574,890	7,312,575		1,036,294		12,923,758.95 /LS	12,923,759	18,859,156.73 /LS	18,859,157
					26.0 Electrical Work	*1.00* LS	43,371	4,574,890	7,312,575		1,036,294		12,923,758.95 /LS	12,923,759	18,859,156.73 /LS	18,859,157
	31.0				Earthwork											
		31.22			Earthworks, Site											
			34.07.MISC		MISC, SUPERVISION, ROADS & MATTING											
				33.71.91.00	Transmission Line											
					Matting Structure Work Pad 50'x50'	34.00 ea		-	-	340,000	-	-	10,000.00 /ea	340,000	12,592.63 /ea	428,149
					Matting per foot (through wetlands)	3,500.00 lf		-	-	525,000	-	-	150.00 /lf	525,000	188.89 /lf	661,113
					Access Road per foot	4,500.00 lf		-	-	180,000	-	-	40.00 /lf	180,000	50.37 /lf	226,667
					ROW clearing	4.00 acre		-	-	12,000	-	-	3,000.00 /acre	12,000	3,777.79 /acre	15,111
					Field Construction Coordinator	4,800.00 hr	4,800	504,437	-	-	-	-	105.09 /hr	504,437	132.34 /hr	635,218
					General Supervision	1,600.00 hr	1,600	168,146	-	-	-	-	105.09 /hr	168,146	132.34 /hr	211,739
					Misc Material	1.00 ls		-	100,000	-	-	-	100,000.00 /ls	100,000	125,926.26 /ls	125,926
					33.71.91.00 Transmission Line	*1.00* LS	6,400	672,582	100,000	1,057,000			1,829,582.40 /LS	1,829,582	2,303,924.50 /LS	2,303,925
					34.07.MISC MISC, SUPERVISION, ROADS & MATTING	*1.00* LS	6,400	672,582	100,000	1,057,000			1,829,582.40 /LS	1,829,582	2,303,924.50 /LS	2,303,925
					31.22 Earthworks, Site	*1.00* LS	6,400	672,582	100,000	1,057,000			1,829,582.40 /LS	1,829,582	2,303,924.50 /LS	2,303,925
					31.0 Earthwork	*1.00* LS	6,400	672,582	100,000	1,057,000			1,829,582.40 /LS	1,829,582	2,303,924.50 /LS	2,303,925
					11.1 230 kv Transmission Lines - TRR to Funks	*3.00* MI	49,771	5,247,472	7,412,575	1,057,000	1,036,294		4,917,780.45 /MI	14,753,341	7,054,360.41 /MI	21,163,081
11.2					230 kv Transmission Lines - TRR to PG&E											
	26.0				Electrical Work											
		26.00			Electrical											
			34.09.FNDT		T-LINE FOUNDATIONS											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent auger, truck-mounted, for caissons, water wells	11.00 day		-	-	-	8,482	-	771.10 /day	8,482	1,125.24 /day	12,378
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	11.00 day		-	-	-	6,927	-	629.75 /day	6,927	918.97 /day	10,109
					Rent crane truck mounted, hydraulic, 12 ton capacity	11.00 day		-	-	-	5,181	-	471.00 /day	5,181	687.31 /day	7,560
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS					20,590		20,590.35 /LS	20,590	30,046.73 /LS	30,047
				33.71.91.00	Transmission Line											
					Anchor bolt, L-type, 2-bolt set, plain steel, 2" dia x 60" L, incl nut & washer, job-built 2-hole template	4.00 set			6,400	-	-	-	1,600.00 /set	6,400	2,334.82 /set	9,339
					Mobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.77 /ls	7,668
					Foundation 8' dia x 25' caisson, culvert priced in mat'l	4.00 ea	900	94,582	10,000	-	-	-	26,145.47 /ea	104,582	38,153.11 /ea	152,612
					Demobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.75 /ls	7,668
					Surface Restorations at Foundations	4.00 ea	48	4,888	6,000	-	565	-	2,863.46 /ea	11,454	4,178.54 /ea	16,714
					33.71.91.00 Transmission Line	*1.00* LS	1,048	109,979	22,400		565		132,944.84 /LS	132,945	194,001.42 /LS	194,001
					34.09.FNDT T-LINE FOUNDATIONS	*0.50* MO	1,048	109,979	22,400		21,156		307,070.38 /MO	153,535	448,096.30 /MO	224,048
			34.11.STRC		T-LINE STRUCTURES											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	22.00 day		-	-	-	13,855	-	629.75 /day	13,855	918.97 /day	20,217
					Rent forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	22.00 day		-	-	-	11,752	-	534.20 /day	11,752	779.54 /day	17,150
					Rent crane truck mount, cable 8x4 drive 90 ton, 15' radius	22.00 day		-	-	-	37,312	-	1,696.00 /day	37,312	2,474.91 /day	54,448
					Rent crane truck mounted, hydraulic, 12 ton capacity	22.00 day		-	-	-	10,362	-	471.00 /day	10,362	687.31 /day	15,121
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS					73,281		73,280.90 /LS	73,281	106,936.07 /LS	106,936
				33.71.91.00	Transmission Line											
					Mobilization	1.00 LS	100	10,509	-	-	-	-	10,509.10 /LS	10,509	15,335.54 /LS	15,336
					Install Steel Single Circuit Deadend Pole	4.00 ea	1,900	199,673	460,000	-	-	-	164,918.23 /ea	659,673	240,658.98 /ea	962,636
					Demobilization	1.00 ls	100	10,509	-	-	-	-	10,509.10 /ls	10,509	15,335.54 /ls	15,336
					33.71.91.00 Transmission Line	1.00 LS	2,100	220,691	460,000				680,691.10 /LS	680,691	993,306.99 /LS	993,307
					34.11.STRC T-LINE STRUCTURES	*1.00* MO	2,100	220,691	460,000		73,281		753,972.00 /MO	753,972	1,100,243.06 /MO	1,100,243
			34.13.WIRE		T-LINE WIRE WORK											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent dozer, crawler, torque converter, diesel 200 HP	11.00 day		-	-	-	16,544	-	1,504.00 /day	16,544	2,194.73 /day	24,142
					Rent trailer with cable reel for high voltage line work	11.00 day		-	-	-	705	-	64.10 /day	705	93.54 /day	1,029
					Rent trailer with cable tensioning rig, for high voltage line work	11.00 day		-	-	-	1,214	-	110.40 /day	1,214	161.10 /day	1,772
					Rent trailer with cable pulling rig, for high voltage line work	11.00 day		-	-	-	6,679	-	607.15 /day	6,679	885.99 /day	9,746
					Rent crane truck mount, cable 8x4 drive 40 ton, 12' radius	11.00 day		-	-	-	22,308	-	2,028.00 /day	22,308	2,959.38 /day	32,553
					01.01.06.03 GC Equip, Tools, & Consumables	*1.00* LS					47,450		47,450.15 /LS	47,450	69,242.22 /LS	69,242
				33.71.91.00	Transmission Line											
					ACSR 795kcmil	5,000.00 lf	270	28,375	25,000	-		-	10.67 /lf	53,375	15.58 /lf	77,888
					Overhead line conductors & devices, insulators and hardware, primary circuits, disk insulators, 345 to 500 kV	4.00 ea	200	21,018	48,000	-		-	17,254.55 /ea	69,018	25,178.92 /ea	100,716
					Overhead line conductors & devices, shield wire	5,000.00 lf	60	6,305	5,000	-		-	2.26 /lf	11,305	3.30 /lf	16,498
					Overhead line conductors & devices, OPGW	5,000.00 lf	210	22,069	11,250	-		-	6.66 /lf	33,319	9.72 /lf	48,621
					Mobilization	1.00 ls	100	10,509	-	-	-	-	10,509.10 /ls	10,509	15,335.55 /ls	15,336
					Demobilization	1.00 ls	100	10,509	-	-	-	-	10,509.10 /ls	10,509	15,335.53 /ls	15,336

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					33.71.91.00 Transmission Line	1.00 LS	940	98,786	89,250				188,035.54 /LS	188,036	274,393.22 /LS	274,393
					34.13.WIRE T-LINE WIRE WORK	0.50 MO	940	98,786	89,250		47,450		470,971.38 /MO	235,486	687,270.88 /MO	343,635
					26.00 Electrical	1.00 LS	4,088	429,456	571,650		141,887		1,142,992.88 /LS	1,142,993	1,667,926.65 /LS	1,667,927
					26.0 Electrical Work	1.00 LS	4,088	429,456	571,650		141,887		1,142,992.88 /LS	1,142,993	1,667,926.65 /LS	1,667,927
	31.0				Earthwork											
		31.22			Earthworks, Site											
			34.07.MISC		MISC, SUPERVISION, ROADS & MATTING											
				33.71.91.00	Transmission Line											
					Matting Structure Work Pad 50'x50'	4.00 ea		-	-	40,000	-	-	10,000.00 /ea	40,000	12,592.63 /ea	50,370
					Field Construction Coordinator	140.00 hr	140	14,713	-	-	-	-	105.09 /hr	14,713	132.34 /hr	18,527
					General Supervision	40.00 hr	40	4,204	-	-	-	-	105.09 /hr	4,204	132.34 /hr	5,293
					Misc Material	1.00 ls		-	10,000	-	-	-	10,000.00 /ls	10,000	12,592.62 /ls	12,593
					33.71.91.00 Transmission Line	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					34.07.MISC MISC, SUPERVISION, ROADS & MATTING	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					31.22 Earthworks, Site	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					31.0 Earthwork	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					11.2 230 kv Transmission Lines - TRR to PG&E	0.20 MI	4,268	448,372	581,650	40,000	141,887		6,059,546.30 /MI	1,211,909	8,773,552.30 /MI	1,754,710
11.3					230 kv Transmission Lines - TRR to TRR Sub											
	26.0				Electrical Work											
		26.00			Electrical											
			34.09.FNDT		T-LINE FOUNDATIONS											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent auger, truck-mounted, for caissons, water wells	11.00 day		-	-	-	8,482	-	771.10 /day	8,482	1,125.24 /day	12,378
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	11.00 day		-	-	-	6,927	-	629.75 /day	6,927	918.97 /day	10,109
					Rent crane truck mounted, hydraulic, 12 ton capacity	11.00 day		-	-	-	5,181	-	471.00 /day	5,181	687.31 /day	7,560
					01.01.06.03 GC Equip, Tools, & Consumables	1.00 LS					20,590		20,590.35 /LS	20,590	30,046.72 /LS	30,047
				33.71.91.00	Transmission Line											
					Anchor bolt, L-type, 2-bolt set, plain steel, 2" dia x 60" L, incl nut & washer, job-built 2-hole template	6.00 set			9,600	-	-	-	1,600.00 /set	9,600	2,334.82 /set	14,009
					Mobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.78 /ls	7,668
					Foundation 8' dia x 25' caisson, culvert included in mat'l	6.00 ea	1,300	136,618	15,000	-	-	-	25,269.72 /ea	151,618	36,875.15 /ea	221,251
					Demobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.76 /ls	7,668
					Surface Restorations at Foundations	6.00 ea	72	7,333	9,000	-	848	-	2,863.46 /ea	17,181	4,178.54 /ea	25,071
					33.71.91.00 Transmission Line	1.00 LS	1,472	154,460	33,600		848		188,908.18 /LS	188,908	275,666.62 /LS	275,667
					34.09.FNDT T-LINE FOUNDATIONS	0.50 MO	1,472	154,460	33,600		21,439		418,997.06 /MO	209,499	611,426.68 /MO	305,713
			34.11.STRC		T-LINE STRUCTURES											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent backhoe-loader wheel type 112 HP, 1-1/2 CY capacity	22.00 day		-	-	-	13,855	-	629.75 /day	13,855	918.97 /day	20,217
					Rent forklift, for rough terrain, 42' lift, 35' reach, 9000 lb., 110 H.P.	22.00 day		-	-	-	11,752	-	534.20 /day	11,752	779.54 /day	17,150
					Rent crane truck mount, cable 8x4 drive 90 ton, 15' radius	22.00 day		-	-	-	37,312	-	1,696.00 /day	37,312	2,474.91 /day	54,448
					Rent crane truck mounted, hydraulic, 12 ton capacity	22.00 day		-	-	-	10,362	-	471.00 /day	10,362	687.31 /day	15,121
					01.01.06.03 GC Equip, Tools, & Consumables	1.00 LS					73,281		73,280.90 /LS	73,281	106,936.07 /LS	106,936
				33.71.91.00	Transmission Line											
					Mobilization	1.00 LS	100	10,509	-	-	-	-	10,509.10 /LS	10,509	15,335.53 /LS	15,336
					Install Steel Single Circuit H Deadend Structure	6.00 ea	2,304	242,130	540,000	-	-	-	130,354.94 /ea	782,130	190,222.08 /ea	1,141,332
					Demobilization	1.00 ls	100	10,509	-	-	-	-	10,509.10 /ls	10,509	15,335.54 /ls	15,336
					33.71.91.00 Transmission Line	1.00 LS	2,504	263,148	540,000				803,147.86 /LS	803,148	1,172,003.56 /LS	1,172,004
					34.11.STRC T-LINE STRUCTURES	1.00 MO	2,504	263,148	540,000		73,281		876,428.76 /MO	876,429	1,278,939.63 /MO	1,278,940
			34.13.WIRE		T-LINE WIRE WORK											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Rent dozer, crawler, torque converter, diesel 200 HP	11.00 day		-	-	-	16,544	-	1,504.00 /day	16,544	2,194.73 /day	24,142
					Rent trailer with cable reel for high voltage line work	11.00 day		-	-	-	705	-	64.10 /day	705	93.54 /day	1,029
					Rent trailer with cable tensioning rig, for high voltage line work	11.00 day		-	-	-	1,214	-	110.40 /day	1,214	161.10 /day	1,772
					Rent trailer with cable pulling rig, for high voltage line work	11.00 day		-	-	-	6,679	-	607.15 /day	6,679	885.99 /day	9,746
					Rent crane truck mount, cable 8x4 drive 40 ton, 12' radius	11.00 day		-	-	-	22,308	-	2,028.00 /day	22,308	2,959.38 /day	32,553
					01.01.06.03 GC Equip, Tools, & Consumables	1.00 LS					47,450		47,450.15 /LS	47,450	69,242.22 /LS	69,242
				33.71.91.00	Transmission Line											
					ACSR 795kcmil	5,000.00 lf	270	28,375	25,000	-		-	10.67 /lf	53,375	15.58 /lf	77,888
					Overhead line conductors & devices, insulators and hardware, primary circuits, disk insulators, 345 to 500 kV	6.00 ea	200	21,018	72,000	-		-	15,503.03 /ea	93,018	22,622.99 /ea	135,738
					Overhead line conductors & devices, OPGW	5,000.00 lf	210	22,069	11,250	-		-	6.66 /lf	33,319	9.72 /lf	48,621
					Overhead line conductors & devices, shield wire	5,000.00 lf	60	6,305	5,000	-		-	2.26 /lf	11,305	3.30 /lf	16,498
					Demobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.77 /ls	7,668
					Mobilization	1.00 ls	50	5,255	-	-	-	-	5,254.55 /ls	5,255	7,667.77 /ls	7,668
					33.71.91.00 Transmission Line	1.00 LS	840	88,276	113,250				201,526.42 /LS	201,526	294,079.95 /LS	294,080
					34.13.WIRE T-LINE WIRE WORK	0.50 MO	840	88,276	113,250		47,450		497,953.14 /MO	248,977	726,644.34 /MO	363,322
					26.00 Electrical	1.00 LS	4,816	505,884	686,850		142,170		1,334,903.86 /LS	1,334,904	1,947,975.14 /LS	1,947,975
					26.0 Electrical Work	1.00 LS	4,816	505,884	686,850		142,170		1,334,903.86 /LS	1,334,904	1,947,975.14 /LS	1,947,975
	31.0				Earthwork											
		31.22			Earthworks, Site											
			34.07.MISC		MISC, SUPERVISION, ROADS & MATTING											
				33.71.91.00	Transmission Line											
					Matting Structure Work Pad 50'x50'	4.00 ea		-	-	40,000	-	-	10,000.00 /ea	40,000	12,592.63 /ea	50,371
					Field Construction Coordinator	140.00 hr	140	14,713	-	-	-	-	105.09 /hr	14,713	132.34 /hr	18,527
					General Supervision	40.00 hr	40	4,204	-	-	-	-	105.09 /hr	4,204	132.34 /hr	5,293
					Misc Material	1.00 ls		-	10,000	-	-	-	10,000.00 /ls	10,000	12,592.62 /ls	12,593
					33.71.91.00 Transmission Line	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					34.07.MISC MISC, SUPERVISION, ROADS & MATTING	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					31.22 Earthworks, Site	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784
					31.0 Earthwork	1.00 LS	180	18,916	10,000	40,000			68,916.38 /LS	68,916	86,783.81 /LS	86,784

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					11.3 230 kv Transmission Lines - TRR to TRR Sub	***0.20*** **MI**	**4,996**	**524,801**	**696,850**	**40,000**	**142,170**		**7,019,101.20 /MI**	**1,403,820**	**10,173,794.75 /MI**	**2,034,759**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	9,090,418		81,299.720	
Material	10,183,986			
Subcontractor	1,137,000			
Equipment	1,483,999		27,472.760	
Other				
Subtotal Direct Costs	**21,895,403**	**21,895,403**		
Material Sales Tax, Dunnigan Ca				7.250 %
Subtotal w/ Tax		**21,895,403**		
Electrical Work OH&P	3,080,331			20.000 %
Subtotal w/ Sub Markups	**3,080,331**	**24,975,734**		
Mobilization/Demobilization	1,131,073			3.000 %
Prime Contractor Home OfficeOH	1,748,301			7.000 %
Prime Contractor Profit	2,497,573			10.000 %
Bonds/Insurance	299,709			1.200 %
Subtotal w/ Prime Markups	**5,676,656**	**30,652,390**		
Contractor Contingency	1,532,620			5.000 %
Design Contingency	5,517,431			18.000 %
Subtotal w/ Contingency	**7,050,051**	**37,702,441**		
Opinion of Probable Construction Costs		**37,702,441**		
Total		***37,702,441***		

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Appendix K
Package 8
13.8-kV Electrical Overhead Distribution Lines Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0	**General Costs**	***1.00*** **LS**	**1,259,928.71 /LS**	**1,259,929**
01.0	**EWDS Environmental Water Discharge Structure**	***2,400.00*** **LF**	**191.32 /LF**	**459,169**
02.0	**IOS Inlet/Outlet Structure**	***3,550.00*** **LF**	**76.77 /LF**	**272,519**
03.0	**IOS/EWDS Combined IOS and EWDS circuit**	***5,675.00*** **LF**	**69.41 /LF**	**393,902**
04.0	**SDO**	***16,825.00*** **LF**	**66.32 /LF**	**1,115,833**
05.0	**TRRCS**	***4,875.00*** **LF**	**77.23 /LF**	**376,504**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	2,393,224		17,483.116	
Material	1,207,424			
Subcontractor				
Equipment	277,207		8,653.730	
Other				
Subtotal w/ Prime Markups	**3,877,855**	**3,877,855**		
Contractor Contingency	193,893			5.000 %
Design Contingency	698,014			18.000 %
Opinion of Probable Construction Costs	**891,907**	**4,769,762**		

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Jacobs

Work Activity Summary Report

Project Name: Sites Reservoir Project Electrical Overhead Distribution
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0				**General Costs**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	*1.00* LS	989.98 /LS	990
			01.I5.005	GC Labor	*1.00* LS	732,918.94 /LS	732,919
			01.I5.010	Jobsite Office	*1.00* LS	108,282.65 /LS	108,283
			01.I5.012	Temporary Services	*1.00* LS	60,991.24 /LS	60,991
			01.I5.013	Travel	*1.00* LS	123,563.26 /LS	123,563
			01.I5.014	Site Cleanup	*1.00* LS	57,686.15 /LS	57,686
			01.I5.014A	Site Safety	*1.00* LS	14,519.77 /LS	14,520
			01.I5.015	GC Equip, Tools, & Consumables	*1.00* LS	41,734.58 /LS	41,735
			01.I5.020	GC Indirect Services & Support	*1.00* LS	19,778.40 /LS	19,778
			01.I6.000	Quality Control	*1.00* LS	99,463.74 /LS	99,464
				01.01 Construction Operations	*12.00* MO	104,994.06 /MO	1,259,929
				01.0 General Requirements	*1.00* LS	1,259,928.71 /LS	1,259,929
				00.0 General Costs	***1.00*** **LS**	**1,259,928.71 /LS**	**1,259,929**
01.0				**EWDS Environmental Water Discharge Structure**			
	26.0			Electrical			
		26.15		Electrical			
			26.OHC	OH MV Cable	1.58 wmil	42,151.06 /wmil	66,599
			2610-001	Detail 2610-001	9.00 EA	5,212.85 /EA	46,916
			2610-002	Detail 2610-002	1.00 EA	6,546.97 /EA	6,547
			2610-004	Detail 2610-004 Fused Riser	1.00 EA	35,907.09 /EA	35,907
			2610-006	Guy Wire Assemblies	2.00 EA	3,628.06 /EA	7,256
				26.15 Electrical	*1.00* LS	163,224.52 /LS	163,225
				26.0 Electrical	*1.00* LS	163,224.52 /LS	163,225
	31.0			Earthwork			
		31.15		Site Preparation			
			26.G	General Costs	0.00	/LS	295,945
				31.15 Site Preparation	0.00	/LS	295,945
				31.0 Earthwork	0.00	/LS	295,945
				01.0 EWDS Environmental Water Discharge Structure	***2,400.00*** **LF**	**191.32 /LF**	**459,169**
02.0				**IOS Inlet/Outlet Structure**			
	26.0			Electrical			
		26.15		Electrical			
			26.OHC	OH MV Cable	2.22 wmil	42,151.06 /wmil	93,575
			2610-001	Detail 2610-001	13.00 EA	5,212.86 /EA	67,767
			2610-002	Detail 2610-002	3.00 EA	6,546.95 /EA	19,641
			2610-004	Detail 2610-004 Fused Riser	2.00 EA	27,492.23 /EA	54,984
			2610-005	Detail 2610-005	1.00 EA	18,410.93 /EA	18,411
			2610-006	Guy Wire Assemblies	5.00 EA	3,628.06 /EA	18,140
				26.15 Electrical	*1.00* LS	272,519.00 /LS	272,519
				26.0 Electrical	*1.00* LS	272,519.00 /LS	272,519
				02.0 IOS Inlet/Outlet Structure	***3,550.00*** **LF**	**76.77 /LF**	**272,519**
03.0				**IOS/EWDS Combined IOS and EWDS circuit**			
	26.0			Electrical			
		26.15		Electrical			
			26.DB	Cable in Ductbank provided under PGP estimate	35.00 clf	2,295.41 /clf	80,339
			26.OHC	OH MV Cable	2.92 wmil	42,151.05 /wmil	123,081
			2610-001	Detail 2610-001	5.00 EA	5,212.86 /EA	26,064
			2610-002	Detail 2610-002	12.00 EA	6,546.96 /EA	78,563
			2610-004	Detail 2610-004 Fused Riser	2.00 EA	19,344.41 /EA	38,689
			2610-006	Guy Wire Assemblies	13.00 EA	3,628.06 /EA	47,165
				26.15 Electrical	*1.00* LS	393,901.74 /LS	393,902
				26.0 Electrical	*1.00* LS	393,901.74 /LS	393,902
				03.0 IOS/EWDS Combined IOS and EWDS circuit	***5,675.00*** **LF**	**69.41 /LF**	**393,902**
04.0				**SDO**			
	26.0			Electrical			
		26.15		Electrical			
			26.OHC	OH MV Cable	10.52 wmil	42,151.06 /wmil	443,429
			2610-001	Detail 2610-001	51.00 EA	5,212.85 /EA	265,856
			2610-002	Detail 2610-002	25.00 EA	6,546.96 /EA	163,674
			2610-004	Detail 2610-004 Fused Riser	2.00 EA	35,907.08 /EA	71,814
			2610-005	Detail 2610-005	2.00 EA	18,410.90 /EA	36,822
			2610-006	Guy Wire Assemblies	37.00 EA	3,628.06 /EA	134,238
				26.15 Electrical	*1.00* LS	1,115,832.65 /LS	1,115,833
				26.0 Electrical	*1.00* LS	1,115,832.65 /LS	1,115,833
				04.0 SDO	***16,825.00*** **LF**	**66.32 /LF**	**1,115,833**
05.0				**TRRCS**			
	26.0			Electrical			
		26.15		Electrical			
			26.OHC	OH MV Cable	3.05 wmil	42,151.06 /wmil	128,561
			2610-001	Detail 2610-001	24.00 EA	5,212.85 /EA	125,108
			2610-002	Detail 2610-002	1.00 EA	6,546.96 /EA	6,547
			2610-004	Detail 2610-004 Fused Riser	3.00 EA	30,297.17 /EA	90,892
			2610-006	Guy Wire Assemblies	7.00 EA	3,628.06 /EA	25,396

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				26.15 Electrical	***1.00*** **LS**	**376,504.10 /LS**	**376,504**
				26.0 Electrical	***1.00*** **LS**	**376,504.10 /LS**	**376,504**
				05.0 TRRCS	***4,875.00*** **LF**	**77.23 /LF**	**376,504**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	2,393,224		17,483.116	
Material	1,207,424			
Subcontractor				
Equipment	277,208		8,653.730	
Other				
Subtotal w/ Prime Markups	**3,877,856**	**3,877,856**		
Contractor Contingency	193,893			5.000 %
Design Contingency	698,014			18.000 %
Opinion of Probable Construction Costs	**891,907**	**4,769,763**		

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Detail Report

Project Name: Sites Reservoir Project Electrical Overhead Distribution
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
00.0					**General Costs**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		General Conditions, Other											
				01.01.05.00	General Conditions, Other											
					Drug Tests	10.00 ea		-	750	0	-	-	75.00 /ea	750	99.00 /ea	990
					01.01.05.00 General Conditions, Other	*12.00* MO			750				62.50 /MO	750	82.50 /MO	990
					01.I5.000 General Conditions, Other	***1.00*** **LS**			**750**				**750.00 /LS**	**750**	**989.98 /LS**	**990**
			01.I5.005		GC Labor											
				01.01.06.01	GC Labor											
					Project Manager	2.00 mo	320	49,920	-	-	-	-	24,960.00 /mo	49,920	31,137.08 /mo	62,274
					Superintendent	12.00 MO	1,920	230,400	-	-	-	-	19,200.00 /MO	230,400	23,951.60 /MO	287,419
					Safety Manager	4.00 mo	640	96,000	-	-	-	-	24,000.00 /mo	96,000	29,939.50 /mo	119,758
					Site Skilled Labor (2)	12.00 mo	1,920	211,200	-	-	-	-	17,600.00 /mo	211,200	21,955.63 /mo	263,468
					01.01.06.01 GC Labor	12.00 MO	4,800	587,520					48,960.00 /MO	587,520	61,076.58 /MO	732,919
					01.I5.005 GC Labor	***1.00*** **LS**	**4,800**	**587,520**					**587,520.00 /LS**	**587,520**	**732,918.94 /LS**	**732,919**
			01.I5.010		Jobsite Office											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,959.93 /ea	3,960
					Telephone/fax monthly cost	12.00 mo		-	6,000	-	-	-	500.00 /mo	6,000	659.99 /mo	7,920
					Mobile Phone	12.00 mo		-	0	-	11,400	-	950.00 /mo	11,400	1,185.10 /mo	14,221
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	8,063.76 /ea	8,064
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	16,127.50 /ea	16,128
					Field Office Set-up	1.00 ea	80	8,619	-		5,400	-	14,018.72 /ea	14,019	17,488.06 /ea	17,488
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	8,063.77 /ea	8,064
					Field Office Trailer Rent (60 x 12)	12.00 mo		-	21,000	-	-	-	1,750.00 /mo	21,000	2,309.96 /mo	27,720
					Office Furniture	1.00 ea		-	775	-	-	-	775.00 /ea	775	1,022.99 /ea	1,023
					Office Furniture - Rental	12.00 mo		-	1,800	-	-	-	150.00 /mo	1,800	198.00 /mo	2,376
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,319.97 /ea	1,320
					01.01.06.00 Project Office	***1.00*** **LS**	**320**	**34,475**	**33,575**		**16,800**		**84,849.88 /LS**	**84,850**	**108,282.65 /LS**	**108,283**
					01.I5.010 Jobsite Office	***1.00*** **LS**	**320**	**34,475**	**33,575**		**16,800**		**84,849.88 /LS**	**84,850**	**108,282.65 /LS**	**108,283**
			01.I5.012		Temporary Services											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	12.00 MO		-	6,000	-	-	-	500.00 /MO	6,000	659.99 /MO	7,920
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,599.89 /ls	6,600
					Water - Consumption	12.00 mo		-	4,286	0	-	-	357.14 /mo	4,286	471.42 /mo	5,657
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,499.73 /ls	16,500
					Sewer - Septic Service	4.00 mo		6,667		0	-	-	1,666.67 /mo	6,667	2,079.14 /mo	8,317
					Hand Washing Station	12.00 mo		-	1,920		-	-	160.00 /mo	1,920	211.20 /mo	2,534
					Portable Toilets	12.00 mo		-	4,500	0	-	-	375.00 /mo	4,500	494.99 /mo	5,940
					Janitorial Service	12.00 mo		-	5,700	0	-	-	475.00 /mo	5,700	626.99 /mo	7,524
					01.01.06.02 GC Temporary Facilities & Services	12.00 MO		6,667	39,906				3,881.03 /MO	46,572	5,082.60 /MO	60,991
					01.I5.012 Temporary Services	***1.00*** **LS**		**6,667**	**39,906**				**46,572.39 /LS**	**46,572**	**60,991.24 /LS**	**60,991**
			01.I5.013		Travel											
				01.01.06.02	GC Temporary Facilities & Services											
					Constraction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	12.00 MO		-	38,970	-	-		3,247.50 /MO	38,970	4,286.63 /MO	51,440
					Constraction Delivery - Air Fare (mgmt 1 flight per month)	12.00 ea		-	4,500	-	-	0	375.00 /ea	4,500	494.99 /ea	5,940
					Business travel - Air Fare	12.00 ea		-	6,600	-	-	0	550.00 /ea	6,600	725.99 /ea	8,712
					Business travel - Hotel	24.00 day		-	3,240	-	-	0	135.00 /day	3,240	178.20 /day	4,277
					Business travel - Rental Car	24.00 day		-	1,800	-	-	0	75.00 /day	1,800	99.00 /day	2,376
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	12.00 mo		-	33,000	-	-		2,750.00 /mo	33,000	3,629.94 /mo	43,559
					Personnel moving expense for 4 GC Management Staff	1.00 EA		-	5,500	-	-		5,500.00 /EA	5,500	7,259.88 /EA	7,260
					01.01.06.02 GC Temporary Facilities & Services	12.00 MO			93,610				7,800.83 /MO	93,610	10,296.94 /MO	123,563
					01.I5.013 Travel	***1.00*** **LS**			**93,610**				**93,610.00 /LS**	**93,610**	**123,563.26 /LS**	**123,563**
			01.I5.014		Site Cleanup											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	52.00 wk	208	18,776	-	-	-	-	361.07 /wk	18,776	450.43 /wk	23,422
					Dumpster Rental	12.00 MO		-	14,400	-	-	-	1,200.00 /MO	14,400	1,583.98 /MO	19,008
					Dumpster Pulls	12.00 ea		-	9,300	-	-	-	775.00 /ea	9,300	1,022.98 /ea	12,276
					Final Clean-up	1.00 ls	40	1,860	500	-		-	2,360.00 /ls	2,360	2,980.31 /ls	2,980
					01.01.06.02 GC Temporary Facilities & Services	12.00 MO	248	20,636	24,200				3,736.31 /MO	44,836	4,807.18 /MO	57,686
					01.I5.014 Site Cleanup	***1.00*** **LS**	**248**	**20,636**	**24,200**				**44,835.74 /LS**	**44,836**	**57,686.15 /LS**	**57,686**
			01.I5.014A		Site Safety											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	5,000	-	-	-	5,000.00 /ls	5,000	6,599.89 /ls	6,600
					First Aid Consumables	12.00 MO		-	6,000	-	-	-	500.00 /MO	6,000	659.99 /MO	7,920
					01.01.06.02 GC Temporary Facilities & Services	12.00 MO			11,000				916.67 /MO	11,000	1,209.98 /MO	14,520
					01.I5.014A Site Safety	***1.00*** **LS**			**11,000**				**11,000.00 /LS**	**11,000**	**14,519.77 /LS**	**14,520**
			01.I5.015		GC Equip, Tools, & Consumables											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	24.00 mo		-	-	-	19,488	-	812.00 /mo	19,488	1,012.95 /mo	24,311
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	989.99 /ea	1,980
					Small Tools (~0.5% Labor)	1.00 ls		-	5,000	-	-	-	5,000.00 /ls	5,000	6,599.88 /ls	6,600
					Ice Machine	12.00 MO		-	3,000	-	-	-	250.00 /MO	3,000	330.00 /MO	3,960
					Coolers & Drinking Cups	12.00 mo		-	1,200	-	-	-	100.00 /mo	1,200	132.00 /mo	1,584
					Project Sign	1.00 ea		-	2,500	-	-	-	2,500.00 /ea	2,500	3,299.94 /ea	3,300
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			13,200		19,488		32,688.00 /LS	32,688	41,734.58 /LS	41,735
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**13,200**		**19,488**		**32,688.00 /LS**	**32,688**	**41,734.58 /LS**	**41,735**
			01.I5.020		GC Indirect Services & Support											
				01.01.06.04	GC Indirect Services & Support											
					Construction Photos	12.00 MO		-	4,200	0	-	-	350.00 /MO	4,200	461.99 /MO	5,544
					Web Camera	1.00 ea		-	5,000	-	-	-	5,000.00 /ea	5,000	6,599.89 /ea	6,600
					Survey Consultant	5.00 day	40	3,800	-		2,320	-	1,224.00 /day	6,120	1,526.92 /day	7,635

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					01.01.06.04 GC Indirect Services & Support	12.00 MO	40	3,800	9,200		2,320		1,276.67 /MO	15,320	1,648.20 /MO	19,778
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**40**	**3,800**	**9,200**		**2,320**		**15,320.00 /LS**	**15,320**	**19,778.40 /LS**	**19,778**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	4.00 MO	693	79,732	-	-	-	-	19,932.95 /MO	79,732	24,865.94 /MO	99,464
					01-01-06-01 GC Labor	4.00 MO	693	79,732					19,932.95 /MO	79,732	24,865.94 /MO	99,464
					01.I6.000 Quality Control	***1.00*** **LS**	**693**	**79,732**					**79,731.80 /LS**	**79,732**	**99,463.74 /LS**	**99,464**
					01.01 Construction Operations	*12.00* MO	6,101	732,829	225,441		38,608		83,073.15 /MO	996,878	104,994.06 /MO	1,259,929
					01.0 General Requirements	*1.00* LS	6,101	732,829	225,441		38,608		996,877.81 /LS	996,878	1,259,928.71 /LS	1,259,929
					00.0 General Costs	***1.00*** **LS**	**6,101**	**732,829**	**225,441**		**38,608**		**996,877.81 /LS**	**996,878**	**1,259,928.71 /LS**	**1,259,929**
01.0					**EWDS Environmental Water Discharge Structure**											
	26.0				Electrical											
		26.15			Electrical											
			26.OHC		**OH MV Cable**											
				26.00.99.00	Electrical, Other											
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	1.58 wmil	152	15,215	34,602	-	1,559	-	32,516.22 /wmil	51,376	42,151.06 /wmil	66,599
					26.00.99.00 Electrical, Other	***1.00*** LS	152	15,215	34,602		1,559		51,375.63 /LS	51,376	66,598.68 /LS	66,599
					26.OHC OH MV Cable	**1.58 wmil**	**152**	**15,215**	**34,602**		**1,559**		**32,516.22 /wmil**	**51,376**	**42,151.06 /wmil**	**66,599**
			2610-001		**Detail 2610-001**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	9.00 ea	72	7,222	-	-	692	-	879.39 /ea	7,914	1,097.02 /ea	9,873
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	9.00 EA	144	16,102	3,105	-	681	-	2,209.84 /EA	19,889	2,781.74 /EA	25,036
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	9.00 ea	72	7,511	1,998	-	-	-	1,056.54 /ea	9,509	1,334.10 /ea	12,007
					26.00.99.00 Electrical, Other	***1.00*** LS	288	30,835	5,103		1,374		37,311.81 /LS	37,312	46,915.67 /LS	46,916
					2610-001 Detail 2610-001	**9.00 EA**	**288**	**30,835**	**5,103**		**1,374**		**4,145.76 /EA**	**37,312**	**5,212.85 /EA**	**46,916**
			2610-002		**Detail 2610-002**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	1.00 ea	8	802	-	-	77	-	879.39 /ea	879	1,097.02 /ea	1,097
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	1.00 EA	16	1,789	345	-	76	-	2,209.84 /EA	2,210	2,781.75 /EA	2,782
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	2.00 ea	16	1,669	444	-	-	-	1,056.54 /ea	2,113	1,334.10 /ea	2,668
					26.00.99.00 Electrical, Other	***1.00*** LS	40	4,261	789		153		5,202.30 /LS	5,202	6,546.97 /LS	6,547
					2610-002 Detail 2610-002	**1.00 EA**	**40**	**4,261**	**789**		**153**		**5,202.30 /EA**	**5,202**	**6,546.97 /EA**	**6,547**
			2610-004		**Detail 2610-004 Fused Riser**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	1.00 ea	8	802	-	-	77	-	879.39 /ea	879	1,097.03 /ea	1,097
					Misc risers, UG to equipment	1.00 ea	80	8,025	5,000	-	176	-	13,200.38 /ea	13,200	16,829.70 /ea	16,830
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	1.00 EA	16	1,789	345	-	76	-	2,209.84 /EA	2,210	2,781.73 /EA	2,782
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	3.00 ea	24	2,504	666	-	-	-	1,056.54 /ea	3,170	1,334.10 /ea	4,002
					Electrical Utility Poles, cutout, 1ph FU, w/FU	3.00 ea	48	5,007	3,750	-	-	-	2,919.07 /ea	8,757	3,732.11 /ea	11,196
					26.00.99.00 Electrical, Other	***1.00*** LS	176	18,127	9,761		328		28,216.44 /LS	28,216	35,907.09 /LS	35,907
					2610-004 Detail 2610-004 Fused Riser	**1.00 EA**	**176**	**18,127**	**9,761**		**328**		**28,216.44 /EA**	**28,216**	**35,907.09 /EA**	**35,907**
			2610-006		**Guy Wire Assemblies**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	2.00 EA	50	5,015	238	-	549	-	2,901.40 /EA	5,803	3,628.06 /EA	7,256
					26.00.99.00 Electrical, Other	***1.00*** LS	50	5,015	238		549		5,802.79 /LS	5,803	7,256.11 /LS	7,256
					2610-006 Guy Wire Assemblies	**2.00 EA**	**50**	**5,015**	**238**		**549**		**2,901.40 /EA**	**5,803**	**3,628.06 /EA**	**7,256**
					26.15 Electrical	***1.00*** LS	706	73,453	50,493		3,963		127,908.97 /LS	127,909	163,224.52 /LS	163,225
					26.0 Electrical	***1.00*** LS	706	73,453	50,493		3,963		127,908.97 /LS	127,909	163,224.52 /LS	163,225
	31.0				Earthwork											
		31.15			Site Preparation											
			26.G		**General Costs**											
				26.00.99.00	Electrical, Other											
					Rent aerial lift, telescoping boom to 60' high, 600 lb cap	125.00 day		-	-	-	56,050	-	448.40 /day	56,050	559.37 /day	69,921
					Rent truck pickup 3/4 ton 4 wheel drive	125.00 day		-	-	-	23,966	-	191.73 /day	23,966	239.18 /day	29,897
					Rented truck, flatbed, GVW = 20,000 Lbs	125.00 day		-	-	-	27,888	-	223.10 /day	27,888	278.31 /day	34,789
					Grounding not quantitied	1.00 ls	400	41,727	15,000	-	-	-	56,726.80 /ls	56,727	71,853.01 /ls	71,853
					Clearing & grubbing, cut & chip light trees, to 6" diameter	5.00 acre	480	46,692	-	-	9,604	-	11,259.20 /acre	56,296	14,045.61 /acre	70,228
					Erosion Controls Allowance	5.00 acre		5,000	7,500	-	2,500	-	3,000.00 /acre	15,000	3,851.19 /acre	19,256
					26.00.99.00 Electrical, Other	0.00	880	93,419	22,500		120,007		/LS	235,927	/LS	295,945
					26.G General Costs	**0.00**	**880**	**93,419**	**22,500**		**120,007**		**/LS**	**235,927**	**/LS**	**295,945**
					31.15 Site Preparation	0.00	880	93,419	22,500		120,007		/LS	235,927	/LS	295,945
					31.0 Earthwork	0.00	880	93,419	22,500		120,007		/LS	235,927	/LS	295,945
					01.0 EWDS Environmental Water Discharge Structure	***2,400.00*** **LF**	**1,586**	**166,872**	**72,993**		**123,971**		**151.60 /LF**	**363,836**	**191.32 /LF**	**459,169**
02.0					**IOS Inlet/Outlet Structure**											
	26.0				Electrical											
		26.15			Electrical											
			26.OHC		**OH MV Cable**											
				26.00.99.00	Electrical, Other											
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	2.22 wmil	213	21,377	48,618	-	2,191	-	32,516.22 /wmil	72,186	42,151.06 /wmil	93,575
					26.00.99.00 Electrical, Other	***1.00*** LS	213	21,377	48,618		2,191		72,186.01 /LS	72,186	93,575.35 /LS	93,575
					26.OHC OH MV Cable	**2.22 wmil**	**213**	**21,377**	**48,618**		**2,191**		**32,516.22 /wmil**	**72,186**	**42,151.06 /wmil**	**93,575**
			2610-001		**Detail 2610-001**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	13.00 ea	104	10,432	-	-	1,000	-	879.39 /ea	11,432	1,097.02 /ea	14,261

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	Electrical, Other											
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	13.00 EA	208	23,259	4,485	-	984	-	2,209.84 /EA	28,728	2,781.74 /EA	36,163
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	13.00 ea	104	10,849	2,886	-	-	-	1,056.54 /ea	13,735	1,334.10 /ea	17,343
					26.00.99.00 Electrical, Other	*1.00* LS	416	44,540	7,371		1,984		53,894.86 /LS	53,895	67,767.12 /LS	67,767
					2610-001 Detail 2610-001	**13.00 EA**	**416**	**44,540**	**7,371**		**1,984**		**4,145.76 /EA**	**53,895**	**5,212.86 /EA**	**67,767**
			2610-002		**Detail 2610-002**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	3.00 ea	24	2,407	-	-	231	-	879.39 /ea	2,638	1,097.01 /ea	3,291
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	3.00 EA	48	5,367	1,035	-	227	-	2,209.84 /EA	6,630	2,781.73 /EA	8,345
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	6.00 ea	48	5,007	1,332	-	-	-	1,056.54 /ea	6,339	1,334.10 /ea	8,005
					26.00.99.00 Electrical, Other	*1.00* LS	120	12,782	2,367		458		15,606.89 /LS	15,607	19,640.86 /LS	19,641
					2610-002 Detail 2610-002	**3.00 EA**	**120**	**12,782**	**2,367**		**458**		**5,202.30 /EA**	**15,607**	**6,546.95 /EA**	**19,641**
			2610-004		**Detail 2610-004 Fused Riser**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	2.00 ea	16	1,605	-	-	154	-	879.39 /ea	1,759	1,097.02 /ea	2,194
					Misc risers, UG to equipment	1.00 ea	80	8,025	5,000	-	176	-	13,200.38 /ea	13,200	16,829.71 /ea	16,830
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	2.00 EA	32	3,578	690	-	151	-	2,209.84 /EA	4,420	2,781.74 /EA	5,563
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	6.00 ea	48	5,007	1,332	-	-	-	1,056.54 /ea	6,339	1,334.10 /ea	8,005
					Electrical Utility Poles, cutout, 1ph FU, w/FU	6.00 ea	96	10,014	7,500	-	-	-	2,919.07 /ea	17,514	3,732.11 /ea	22,393
					26.00.99.00 Electrical, Other	*1.00* LS	272	28,229	14,522		481		43,232.47 /LS	43,232	54,984.46 /LS	54,984
					2610-004 Detail 2610-004 Fused Riser	**2.00 EA**	**272**	**28,229**	**14,522**		**481**		**21,616.24 /EA**	**43,232**	**27,492.23 /EA**	**54,984**
			2610-005		**Detail 2610-005**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	1.00 ea	8	802	-	-	77	-	879.39 /ea	879	1,097.01 /ea	1,097
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	1.00 EA	16	1,789	345	-	76	-	2,209.84 /EA	2,210	2,781.75 /EA	2,782
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	2.00 ea	16	1,669	444	-	-	-	1,056.54 /ea	2,113	1,334.11 /ea	2,668
					Overhead line conductors & devices, conductors, primary circuits, make and install jumpers, per structural, 15 kV	3.00 ea	72	7,281	1,830	-	293	-	3,134.67 /ea	9,404	3,954.65 /ea	11,864
					26.00.99.00 Electrical, Other	*1.00* LS	112	11,542	2,619		446		14,606.30 /LS	14,606	18,410.93 /LS	18,411
					2610-005 Detail 2610-005	**1.00 EA**	**112**	**11,542**	**2,619**		**446**		**14,606.30 /EA**	**14,606**	**18,410.93 /EA**	**18,411**
			2610-006		**Guy Wire Assemblies**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	5.00 EA	125	12,538	595	-	1,374	-	2,901.40 /EA	14,507	3,628.06 /EA	18,140
					26.00.99.00 Electrical, Other	*1.00* LS	125	12,538	595		1,374		14,506.98 /LS	14,507	18,140.28 /LS	18,140
					2610-006 Guy Wire Assemblies	**5.00 EA**	**125**	**12,538**	**595**		**1,374**		**2,901.40 /EA**	**14,507**	**3,628.06 /EA**	**18,140**
					26.15 Electrical	*1.00* LS	1,258	131,009	76,092		6,933		214,033.51 /LS	214,034	272,519.00 /LS	272,519
					26.0 Electrical	*1.00* LS	1,258	131,009	76,092		6,933		214,033.51 /LS	214,034	272,519.00 /LS	272,519
					02.0 IOS Inlet/Outlet Structure	***3,550.00*** **LF**	**1,258**	**131,009**	**76,092**		**6,933**		**60.29 /LF**	**214,034**	**76.77 /LF**	**272,519**
03.0					**IOS/EWDS Combined IOS and EWDS circuit**											
	26.0				Electrical											
		26.15			Electrical											
			26.DB		**Cable in Ductbank provided under PGP estimate**											
				26.00.99.00	Electrical, Other											
					Cable terminations, indoor, insulation diameter range, 15 kV, 1.540" to 1.900", pad mount	6.00 ea	9	894	1,494	-	-	-	398.03 /ea	2,388	514.58 /ea	3,087
					Cable terminations, outdoor systems, 15 kV, 2/0 solid to 350 kcmil stranded	6.00 ea	10	1,043	1,830	-	-	-	478.86 /ea	2,873	619.48 /ea	3,717
					Medium-cable single cable, copper, XLP shielding, ungrounded neutral, 15 kV, 350 kcmil, in conduit, excl splicing & terminations	35.00 clf	215	22,468	34,475	-	-	-	1,626.95 /clf	56,943	2,101.00 /clf	73,535
					26.00.99.00 Electrical, Other	*1.00* LS	234	24,406	37,799				62,204.60 /LS	62,205	80,339.38 /LS	80,339
					26.DB Cable in Ductbank provided under PGP estimate	**35.00 clf**	**234**	**24,406**	**37,799**				**1,777.27 /clf**	**62,205**	**2,295.41 /clf**	**80,339**
			26.OHC		**OH MV Cable**											
				26.00.99.00	Electrical, Other											
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	2.92 wmil	280	28,118	63,948	-	2,881	-	32,516.22 /wmil	94,947	42,151.05 /wmil	123,081
					26.00.99.00 Electrical, Other	*1.00* LS	280	28,118	63,948		2,881		94,947.36 /LS	94,947	123,081.07 /LS	123,081
					26.OHC OH MV Cable	**2.92 wmil**	**280**	**28,118**	**63,948**		**2,881**		**32,516.22 /wmil**	**94,947**	**42,151.05 /wmil**	**123,081**
			2610-001		**Detail 2610-001**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	5.00 ea	40	4,012	-	-	385	-	879.39 /ea	4,397	1,097.02 /ea	5,485
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	5.00 EA	80	8,946	1,725	-	379	-	2,209.84 /EA	11,049	2,781.74 /EA	13,909
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	5.00 ea	40	4,173	1,110	-	-	-	1,056.54 /ea	5,283	1,334.10 /ea	6,671
					26.00.99.00 Electrical, Other	*1.00* LS	160	17,131	2,835		763		20,728.79 /LS	20,729	26,064.28 /LS	26,064
					2610-001 Detail 2610-001	**5.00 EA**	**160**	**17,131**	**2,835**		**763**		**4,145.76 /EA**	**20,729**	**5,212.86 /EA**	**26,064**
			2610-002		**Detail 2610-002**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	12.00 ea	96	9,629	-	-	923	-	879.39 /ea	10,553	1,097.02 /ea	13,164
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	12.00 EA	192	21,470	4,140	-	908	-	2,209.84 /EA	26,518	2,781.74 /EA	33,381
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	24.00 ea	192	20,029	5,328	-	-	-	1,056.54 /ea	25,357	1,334.10 /ea	32,018
					26.00.99.00 Electrical, Other	*1.00* LS	480	51,128	9,468		1,832		62,427.52 /LS	62,428	78,563.46 /LS	78,563
					2610-002 Detail 2610-002	**12.00 EA**	**480**	**51,128**	**9,468**		**1,832**		**5,202.29 /EA**	**62,428**	**6,546.96 /EA**	**78,563**
			2610-004		**Detail 2610-004 Fused Riser**											
				26.00.99.00	Electrical, Other											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	1.00 ea	8	802	-	-	77	-	879.39 /ea	879	1,097.02 /ea	1,097
					Misc risers, UG to equipment	1.00 ea	80	8,025	5,000	-	176	-	13,200.38 /ea	13,200	16,829.69 /ea	16,830
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	2.00 EA	32	3,578	690	-	151	-	2,209.84 /EA	4,420	2,781.74 /EA	5,563
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	3.00 ea	24	2,504	666	-	-	-	1,056.54 /ea	3,170	1,334.10 /ea	4,002
					Electrical Utility Poles, cutout, 1ph FU, w/FU	3.00 ea	48	5,007	3,750	-	-	-	2,919.07 /ea	8,757	3,732.11 /ea	11,196
					26.00.99.00 Electrical, Other	*1.00* LS	192	19,916	10,106		404		30,426.27 /LS	30,426	38,688.82 /LS	38,689
					2610-004 Detail 2610-004 Fused Riser	**2.00 EA**	**192**	**19,916**	**10,106**		**404**		**15,213.14 /EA**	**30,426**	**19,344.41 /EA**	**38,689**
			2610-006		**Guy Wire Assemblies**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	13.00 EA	325	32,600	1,547	-	3,571	-	2,901.39 /EA	37,718	3,628.06 /EA	47,165
					26.00.99.00 Electrical, Other	*1.00* LS	325	32,600	1,547		3,571		37,718.13 /LS	37,718	47,164.73 /LS	47,165
					2610-006 Guy Wire Assemblies	**13.00 EA**	**325**	**32,600**	**1,547**		**3,571**		**2,901.39 /EA**	**37,718**	**3,628.06 /EA**	**47,165**
					26.15 Electrical	*1.00* LS	1,671	173,298	125,703		9,452		308,452.67 /LS	308,453	393,901.74 /LS	393,902
					26.0 Electrical	*1.00* LS	1,671	173,298	125,703		9,452		308,452.67 /LS	308,453	393,901.74 /LS	393,902
					03.0 IOS/EWDS Combined IOS and EWDS circuit	***5,675.00*** **LF**	**1,671**	**173,298**	**125,703**		**9,452**		**54.35 /LF**	**308,453**	**69.41 /LF**	**393,902**
04.0					**SDO**											
	26.0				Electrical											
		26.15			Electrical											
			26.OHC		**OH MV Cable**											
				26.00.99.00	Electrical, Other											
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	10.52 wmil	1,010	101,302	230,388	-	10,381	-	32,516.22 /wmil	342,071	42,151.06 /wmil	443,429
					26.00.99.00 Electrical, Other	*1.00* LS	1,010	101,302	230,388		10,381		342,070.63 /LS	342,071	443,429.11 /LS	443,429
					26.OHC OH MV Cable	**10.52 wmil**	**1,010**	**101,302**	**230,388**		**10,381**		**32,516.22 /wmil**	**342,071**	**42,151.06 /wmil**	**443,429**
			2610-001		**Detail 2610-001**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	51.00 ea	408	40,925	-	-	3,923	-	879.39 /ea	44,849	1,097.02 /ea	55,948
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	51.00 EA	816	91,246	17,595	-	3,861	-	2,209.84 /EA	112,702	2,781.74 /EA	141,869
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	51.00 ea	408	42,561	11,322	-	-	-	1,056.54 /ea	53,883	1,334.10 /ea	68,039
					26.00.99.00 Electrical, Other	*1.00* LS	1,632	174,733	28,917		7,784		211,433.68 /LS	211,434	265,855.59 /LS	265,856
					2610-001 Detail 2610-001	**51.00 EA**	**1,632**	**174,733**	**28,917**		**7,784**		**4,145.76 /EA**	**211,434**	**5,212.85 /EA**	**265,856**
			2610-002		**Detail 2610-002**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	25.00 ea	200	20,061	-	-	1,923	-	879.39 /ea	21,985	1,097.02 /ea	27,425
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	25.00 EA	400	44,728	8,625	-	1,893	-	2,209.84 /EA	55,246	2,781.74 /EA	69,543
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	50.00 ea	400	41,727	11,100	-	-	-	1,056.54 /ea	52,827	1,334.10 /ea	66,705
					26.00.99.00 Electrical, Other	*1.00* LS	1,000	106,517	19,725		3,816		130,057.35 /LS	130,057	163,673.88 /LS	163,674
					2610-002 Detail 2610-002	**25.00 EA**	**1,000**	**106,517**	**19,725**		**3,816**		**5,202.29 /EA**	**130,057**	**6,546.96 /EA**	**163,674**
			2610-004		**Detail 2610-004 Fused Riser**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	2.00 ea	16	1,605	-	-	154	-	879.39 /ea	1,759	1,097.02 /ea	2,194
					Misc risers, UG to equipment	2.00 ea	160	16,049	10,000	-	352	-	13,200.38 /ea	26,401	16,829.70 /ea	33,659
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	2.00 EA	32	3,578	690	-	151	-	2,209.84 /EA	4,420	2,781.74 /EA	5,563
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	6.00 ea	48	5,007	1,332	-	-	-	1,056.54 /ea	6,339	1,334.10 /ea	8,005
					Electrical Utility Poles, cutout, 1ph FU, w/FU	6.00 ea	96	10,014	7,500	-	-	-	2,919.07 /ea	17,514	3,732.11 /ea	22,393
					26.00.99.00 Electrical, Other	*1.00* LS	352	36,254	19,522		657		56,432.85 /LS	56,433	71,814.16 /LS	71,814
					2610-004 Detail 2610-004 Fused Riser	**2.00 EA**	**352**	**36,254**	**19,522**		**657**		**28,216.42 /EA**	**56,433**	**35,907.08 /EA**	**71,814**
			2610-005		**Detail 2610-005**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, digging holes in earth, average	2.00 ea	16	1,605	-	-	154	-	879.39 /ea	1,759	1,097.02 /ea	2,194
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	2.00 EA	32	3,578	690	-	151	-	2,209.84 /EA	4,420	2,781.74 /EA	5,563
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	4.00 ea	32	3,338	888	-	-	-	1,056.54 /ea	4,226	1,334.10 /ea	5,336
					Overhead line conductors & devices, conductors, primary circuits, make and install jumpers, per structural, 15 kV	6.00 ea	144	14,562	3,660	-	586	-	3,134.67 /ea	18,808	3,954.65 /ea	23,728
					26.00.99.00 Electrical, Other	*1.00* LS	224	23,083	5,238		891		29,212.57 /LS	29,213	36,821.81 /LS	36,822
					2610-005 Detail 2610-005	**2.00 EA**	**224**	**23,083**	**5,238**		**891**		**14,606.29 /EA**	**29,213**	**18,410.90 /EA**	**36,822**
			2610-006		**Guy Wire Assemblies**											
				26.00.99.00	Electrical, Other											
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	37.00 EA	925	92,784	4,403	-	10,165	-	2,901.39 /EA	107,352	3,628.06 /EA	134,238
					26.00.99.00 Electrical, Other	*1.00* LS	925	92,784	4,403		10,165		107,351.59 /LS	107,352	134,238.10 /LS	134,238
					2610-006 Guy Wire Assemblies	**37.00 EA**	**925**	**92,784**	**4,403**		**10,165**		**2,901.39 /EA**	**107,352**	**3,628.06 /EA**	**134,238**
					26.15 Electrical	*1.00* LS	5,143	534,672	308,193		33,693		876,558.67 /LS	876,559	1,115,832.65 /LS	1,115,833
					26.0 Electrical	*1.00* LS	5,143	534,672	308,193		33,693		876,558.67 /LS	876,559	1,115,832.65 /LS	1,115,833
					04.0 SDO	***16,825.00*** **LF**	**5,143**	**534,672**	**308,193**		**33,693**		**52.10 /LF**	**876,559**	**66.32 /LF**	**1,115,833**
05.0					**TRRCS**											
	26.0				Electrical											
		26.15			Electrical											
			26.OHC		**OH MV Cable**											
				26.00.99.00	Electrical, Other											
					Overhead line conductors & devices, conductors, primary circuits, per wire, 210 to 636 kcmil	3.05 wmil	293	29,370	66,795	-	3,010	-	32,516.22 /wmil	99,174	42,151.06 /wmil	128,561

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**293**	**29,370**	**66,795**		**3,010**		**99,174.47 /LS**	**99,174**	**128,560.73 /LS**	**128,561**
					26.OHC OH MV Cable	**3.05 wmil**	**293**	**29,370**	**66,795**		**3,010**		**32,516.22 /wmil**	**99,174**	**42,151.06 /wmil**	**128,561**
			2610-001		**Detail 2610-001**											
				26.00.99.00	**Electrical, Other**											
					Electrical Utility Poles, digging holes in earth, average	24.00 ea	192	19,259	-	-	1,846	-	879.39 /ea	21,105	1,097.02 /ea	26,328
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	24.00 EA	384	42,939	8,280	-	1,817	-	2,209.84 /EA	53,036	2,781.74 /EA	66,762
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	24.00 ea	192	20,029	5,328	-	-	-	1,056.54 /ea	25,357	1,334.10 /ea	32,018
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**768**	**82,227**	**13,608**		**3,663**		**99,498.18 /LS**	**99,498**	**125,108.48 /LS**	**125,108**
					2610-001 Detail 2610-001	**24.00 EA**	**768**	**82,227**	**13,608**		**3,663**		**4,145.76 /EA**	**99,498**	**5,212.85 /EA**	**125,108**
			2610-002		**Detail 2610-002**											
				26.00.99.00	**Electrical, Other**											
					Electrical Utility Poles, digging holes in earth, average	1.00 ea	8	802	-	-	77	-	879.39 /ea	879	1,097.01 /ea	1,097
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	1.00 EA	16	1,789	345	-	76	-	2,209.84 /EA	2,210	2,781.74 /EA	2,782
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	2.00 ea	16	1,669	444	-	-	-	1,056.54 /ea	2,113	1,334.11 /ea	2,668
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**40**	**4,261**	**789**		**153**		**5,202.30 /LS**	**5,202**	**6,546.96 /LS**	**6,547**
					2610-002 Detail 2610-002	**1.00 EA**	**40**	**4,261**	**789**		**153**		**5,202.30 /EA**	**5,202**	**6,546.96 /EA**	**6,547**
			2610-004		**Detail 2610-004 Fused Riser**											
				26.00.99.00	**Electrical, Other**											
					Electrical Utility Poles, digging holes in earth, average	3.00 ea	24	2,407	-	-	231	-	879.39 /ea	2,638	1,097.02 /ea	3,291
					Misc risers, UG to equipment	2.00 ea	160	16,049	10,000	-	352	-	13,200.38 /ea	26,401	16,829.69 /ea	33,659
					Elctrcl utility poles,poles,wood,prsrvtv trtmnt,30'high,excluds excavtn,backfill and cast place concrete,see also section 26 56 13.10 (mf95 16520 300)	3.00 EA	48	5,367	1,035	-	227	-	2,209.84 /EA	6,630	2,781.74 /EA	8,345
					Electrical Utility Poles, poles, wood, cross arms with hardware & insulators, 6' long, excludes excavation, backfill and cast in place concrete	9.00 ea	72	7,511	1,998	-	-	-	1,056.54 /ea	9,509	1,334.10 /ea	12,007
					Electrical Utility Poles, cutout, 1ph FU, w/FU	9.00 ea	144	15,022	11,250	-	-	-	2,919.07 /ea	26,272	3,732.11 /ea	33,589
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**448**	**46,356**	**24,283**		**810**		**71,448.90 /LS**	**71,449**	**90,891.52 /LS**	**90,892**
					2610-004 Detail 2610-004 Fused Riser	**3.00 EA**	**448**	**46,356**	**24,283**		**810**		**23,816.30 /EA**	**71,449**	**30,297.17 /EA**	**90,892**
			2610-006		**Guy Wire Assemblies**											
				26.00.99.00	**Electrical, Other**											
					Electrical Utility Poles, guys anchors and hardware for pole, in earth	7.00 EA	175	17,554	833	-	1,923	-	2,901.40 /EA	20,310	3,628.06 /EA	25,396
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**175**	**17,554**	**833**		**1,923**		**20,309.77 /LS**	**20,310**	**25,396.41 /LS**	**25,396**
					2610-006 Guy Wire Assemblies	**7.00 EA**	**175**	**17,554**	**833**		**1,923**		**2,901.40 /EA**	**20,310**	**3,628.06 /EA**	**25,396**
					26.15 Electrical	***1.00*** **LS**	**1,724**	**179,768**	**106,308**		**9,558**		**295,633.62 /LS**	**295,634**	**376,504.10 /LS**	**376,504**
					26.0 Electrical	***1.00*** **LS**	**1,724**	**179,768**	**106,308**		**9,558**		**295,633.62 /LS**	**295,634**	**376,504.10 /LS**	**376,504**
					05.0 TRRCS	***4,875.00*** **LF**	**1,724**	**179,768**	**106,308**		**9,558**		**60.64 /LF**	**295,634**	**77.23 /LF**	**376,504**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	1,918,448		17,483.116	
Material	914,730			
Subcontractor				
Equipment	222,214		8,653.730	
Other				
Subtotal Direct Costs	**3,055,392**	**3,055,392**		
Material Sales Tax, Dunnigan Ca	66,318			7.250 %
Subtotal w/ Tax	**66,318**	**3,121,710**		
Mobilization/Demobilization	143,093			3.000 %
Prime Contractor Home OfficeOH	218,520			7.000 %
Prime Contractor Profit	312,171			10.000 %
Bonds/Insurance	82,362			2.170 %
Subtotal w/ Prime Markups	**756,146**	**3,877,856**		
Contractor Contingency	193,893			5.000 %
Design Contingency	698,014			18.000 %
Subtotal w/ Contingency	**891,907**	**4,769,763**		
Opinion of Probable Construction Costs		**4,769,763**		

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Appendix L
Package 9
Funks Electrical Substation
Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0	**General Conditions**	***1.00*** **LS**	**4,890,877.52 /LS**	**4,890,878**
09.0	**Funks 230KV Substation for PG&E Connection**	***1.00*** **LS**	**23,471,750.96 /LS**	**23,471,751**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	7,486,124		48,851.376	
Material	18,792,963			
Subcontractor				
Equipment	2,083,542		20,589.177	
Other				
Subtotal w/ Prime Markups	**28,362,629**	**28,362,629**		
Contractor Contingency	1,418,131			5.000 %
Design Contingency	5,105,273			18.000 %
Opinion of Probable Construction Costs	**6,523,404**	**34,886,033**		

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Work Activity Summary Report

Project Name: Funks 230KV Substation for PG&E Connection
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	9,903.88 /LS	9,904
			01.I5.005	GC Labor	1.00 LS	1,908,968.36 /LS	1,908,968
			01.I5.010	Jobsite Office	1.00 LS	604,636.06 /LS	604,636
			01.I5.011	Temporary Facilities	1.00 LS	589,752.32 /LS	589,752
			01.I5.012	Temporary Services	1.00 LS	193,516.78 /LS	193,517
			01.I5.013	Travel	1.00 LS	514,308.75 /LS	514,309
			01.I5.014	Site Cleanup	1.00 LS	109,658.32 /LS	109,658
			01.I5.014A	Site Safety	1.00 LS	79,231.09 /LS	79,231
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	126,369.28 /LS	126,369
			01.I5.020	GC Indirect Services & Support	1.00 LS	256,999.07 /LS	256,999
			01.I6.000	Quality Control	1.00 LS	497,533.61 /LS	497,534
				01.01 Construction Operations	20.00 MO	244,543.88 /MO	4,890,878
				01.0 General Requirements	20.00 MO	244,543.88 /MO	4,890,878
				00.0 General Conditions	**1.00 LS**	**4,890,877.52 /LS**	**4,890,878**
09.0				**Funks 230KV Substation for PG&E Connection**			
	01.0			General Requirements			
		01.01		Construction Operations			
			34.95.CONEQ	CONSTRUCTION EQUIPMENT	1.00 LS	2,559,689.28 /LS	2,559,689
				01.01 Construction Operations	20.00 MO	127,984.46 /MO	2,559,689
				01.0 General Requirements	20.00 MO	127,984.46 /MO	2,559,689
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.10.CTRLFND	Control Station Foundation	44.72 CY	652.89 /CY	29,198
			03.10.XFMRPAD	Substation Transformer Foundations	218.91 CY	582.55 /CY	127,523
				03.18 Cast-In-Place Concrete, Slabs on Grade	263.63 CY	594.48 /CY	156,722
				03.0 Concrete Work	263.63 CY	594.48 /CY	156,722
	05.0			Metals			
		05.10		Structural Steel			
			34.10.STEEL	Substation Steel Supports	1.00 LS	2,555,417.36 /LS	2,555,417
				05.10 Structural Steel	1.00 LS	2,555,417.36 /LS	2,555,417
				05.0 Metals	1.00 LS	2,555,417.36 /LS	2,555,417
	13.0			Special Construction			
		13.01		Buildings Complete			
			26.00.HOUSE	Substation Control House	1.00 LS	3,457,522.43 /LS	3,457,522
				13.01 Buildings Complete	1.00 LS	3,457,522.43 /LS	3,457,522
				13.0 Special Construction	1.00 LS	3,457,522.43 /LS	3,457,522
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.10.CABLE	Substation Cabling	1.00 LS	102,960.79 /LS	102,961
			26.10.COND.UG	Conduit and Raceways - Underground	450.00 LF	1,738.34 /LF	782,251
			26.10.GRID	Substation Ground Grid	1.00 LS	653,929.91 /LS	653,930
				26.15 Process Electrical	1.00 LS	1,539,142.00 /LS	1,539,142
		26.20		Facility Electrical			
			26.10.LTG	Substation Lighting	1.00 LS	341,893.93 /LS	341,894
				26.20 Facility Electrical	1.00 LS	341,893.93 /LS	341,894
		26.25		Electrical Equipment			
			34.10.SUBEQ	Substation Equipment	1.00 LS	11,806,352.13 /LS	11,806,352
				26.25 Electrical Equipment	1.00 LS	11,806,352.13 /LS	11,806,352
				26.0 Electrical Work	1.00 LS	13,687,388.06 /LS	13,687,388
	31.0			Earthwork			
		31.17		Piling and Caissons			
			31.TYPE.A	Substation Equipment Foundation 30"Rx54" Type A - D3/6001	46.00 EA	1,571.36 /EA	72,282
			31.TYPE.B	Substation Equipment Foundation 36"Rx54" Type B - A3/6001	16.00 EA	1,784.63 /EA	28,554
			31.TYPE.C	Substation Equipment Foundation 60"Rx168" Type C - A5/6001	4.00 EA	10,068.64 /EA	40,275
			31.TYPE.D	Substation Equipment Foundation 36"Rx72" Type D - C8/6001	9.00 EA	3,109.00 /EA	27,981
				31.17 Piling and Caissons	407.00 vlf	415.46 /vlf	169,092
				31.0 Earthwork	108.95 CY	1,552.01 /CY	169,092
	32.0			Exterior Improvements			
		32.12		Paving			
			32.00.006	Substation Gravel Surfacing	22,222.22 SY	34.90 /SY	775,470
				32.12 Paving	22,222.22 SY	34.90 /SY	775,470
		32.31		Fencing			
			32.00.004	Substation Fencing	1,948.00 LF	56.70 /LF	110,450
				32.31 Fencing	1,948.00 LF	56.70 /LF	110,450
				32.0 Exterior Improvements	1.00 LS	885,920.18 /LS	885,920
				09.0 Funks 230KV Substation for PG&E Connection	**1.00 LS**	**23,471,750.96 /LS**	**23,471,751**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	7,486,124		48,851.376	
Material	18,792,963			
Subcontractor				
Equipment	2,083,542		20,589.177	
Other				

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Estimate Totals

Subtotal w/ Prime Markups	**28,362,629**	**28,362,629**	
Contractor Contingency	1,418,131		5.000 %
Design Contingency	5,105,273		18.000 %
Opinion of Probable Construction Costs	**6,523,404**	**34,886,033**	

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Jacobs

Detail Report
Project Name: Funks 230KV Substation for PG&E Connection
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
00.0					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	99.04 /ea	9,904
					01.01.05.00 General Conditions, Other	*20.00* MO			7,500				375.00 /MO	7,500	495.19 /MO	9,904
					01.I5.000 General Conditions, Other	*1.00* LS			7,500				7,500.00 /LS	7,500	9,903.88 /LS	9,904
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Manager	10.00 mo	1,600	249,600	-	-	-	-	24,960.00 /mo	249,600	31,150.53 /mo	311,505
					Superintendent	20.00 MO	3,200	384,000	-	-	-	-	19,200.00 /MO	384,000	23,961.95 /MO	479,239
					Field Engineer	20.00 mo	3,200	304,000	-	-	-	-	15,200.00 /mo	304,000	18,969.87 /mo	379,397
					Safety Manager	10.00 mo	1,600	240,000	-	-	-	-	24,000.00 /mo	240,000	29,952.43 /mo	299,524
					Site Skilled Labor	20.00 mo	3,200	352,000	-	-	-	-	17,600.00 /mo	352,000	21,965.12 /mo	439,302
					01.01.06.01 GC Labor	20.00 MO	12,800	1,529,600					76,480.00 /MO	1,529,600	95,448.42 /MO	1,908,968
					01.I5.005 GC Labor	*1.00* LS	12,800	1,529,600					1,529,600.00 /LS	1,529,600	1,908,968.36 /LS	1,908,968
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,961.54 /ea	3,962
					Telephone/fax monthly cost	20.00 mo		-	10,000	-	-	-	500.00 /mo	10,000	660.26 /mo	13,205
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,205.18 /ea	13,205
					High Speed Connection - Consumption	20.00 mo		-	10,000	-	-	-	500.00 /mo	10,000	660.26 /mo	13,205
					Mobile Phone	20.00 mo		-	0	-	19,000	-	950.00 /mo	19,000	1,185.62 /mo	23,712
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	8,067.25 /ea	8,067
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	16,134.48 /ea	16,134
					Field Office Set-up	1.00 ea	180	19,392	-		10,800	-	30,192.12 /ea	30,192	37,680.30 /ea	37,680
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	8,067.23 /ea	8,067
					Field Office Trailer Rent (60 x 12) (2)	40.00 mo		-	70,000	-	-	-	1,750.00 /mo	70,000	2,310.91 /mo	92,436
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,023.40 /ea	2,047
					Office Furniture - Rental	40.00 mo		-	30,000	-	-	-	750.00 /mo	30,000	990.39 /mo	39,616
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,320.52 /ea	1,321
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	72,628.49 /ea	72,628
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,807.76 /ea	19,808
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	85,833.67 /ea	85,834
					Water Cooler Services	20.00 mo		-	2,900	-	-	-	145.00 /mo	2,900	191.48 /mo	3,830
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,807.78 /ea	19,808
					Printing & Reproduction	20.00 mo		-	34,500	-	-	-	1,725.00 /mo	34,500	2,277.89 /mo	45,558
					Postage & Courier	20.00 mo		-	7,000	-	-	-	350.00 /mo	7,000	462.18 /mo	9,244
					Misc. Supplies	20.00 mo		-	57,000	-	-	-	2,850.00 /mo	57,000	3,763.48 /mo	75,270
					01.01.06.00 Project Office	*1.00* LS	420	45,248	386,950		29,800		461,998.28 /LS	461,998	604,636.06 /LS	604,636
					01.I5.010 Jobsite Office	*1.00* LS	420	45,248	386,950		29,800		461,998.28 /LS	461,998	604,636.06 /LS	604,636
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.90 /sy	71,205
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.90 /sy	4,450
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.90 /sy	8,901
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.67 /lf	23,472
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,887.15 /ea	11,774
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,840.35 /ea	9,681
					Tempoary Warehouse rental	20.00 MO		-	76,000	-	-	-	3,800.00 /MO	76,000	5,017.97 /MO	100,359
					Guard Shack - Rent	20.00 mo		-	24,000	-	-	-	1,200.00 /mo	24,000	1,584.62 /mo	31,692
					Site Security Services	20.00 mo		224,900	-		-	-	11,245.00 /mo	224,900	14,033.96 /mo	280,679
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	475.39 /ea	47,539
					01.01.06.02 GC Temporary Facilities & Services	*20.00* MO	517	283,959	165,400		13,584		23,147.13 /MO	462,943	29,487.62 /MO	589,752
					01.I5.011 Temporary Facilities	*1.00* LS	517	283,959	165,400		13,584		462,942.69 /LS	462,943	589,752.32 /LS	589,752
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	20.00 MO		-	50,000	-	-	-	2,500.00 /MO	50,000	3,301.30 /MO	66,026
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,602.59 /ls	6,603
					Water - Consumption	20.00 mo		-	7,143	0	-	-	357.14 /mo	7,143	471.61 /mo	9,432
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,506.47 /ls	16,506
					Sewer - Septic Service	20.00 mo		33,333		0	-	-	1,666.67 /mo	33,333	2,080.03 /mo	41,601
					Hand Washing Station (2)	40.00 mo		-	6,400		-	-	160.00 /mo	6,400	211.28 /mo	8,451
					Portable Toilets (2)	40.00 mo		-	15,000	0	-	-	375.00 /mo	15,000	495.19 /mo	19,808
					Janitorial Service (2)	40.00 mo		-	19,000	0	-	-	475.00 /mo	19,000	627.25 /mo	25,090
					01.01.06.02 GC Temporary Facilities & Services	20.00 MO		33,333	115,043				7,418.81 /MO	148,376	9,675.84 /MO	193,517
					01.I5.012 Temporary Services	*1.00* LS		33,333	115,043				148,376.21 /LS	148,376	193,516.78 /LS	193,517
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	30.00 mo		-	97,425	-	-		3,247.50 /mo	97,425	4,288.38 /mo	128,651
					Construction Delivery - Air Fare (mgmt 1 flight per month)	30.00 ea		-	11,250	-	-	0	375.00 /ea	11,250	495.19 /ea	14,856
					Business travel - Air Fare	30.00 ea		-	16,500	-	-	0	550.00 /ea	16,500	726.29 /ea	21,789
					Business travel - Hotel	180.00 day		-	24,300	-	-	0	135.00 /day	24,300	178.27 /day	32,089
					Business travel - Rental Car	180.00 day		-	13,500	-	-	0	75.00 /day	13,500	99.04 /day	17,827
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	20.00 mo		-	90,000	-	-		4,500.00 /mo	90,000	5,942.33 /mo	118,847
					Temporary housing (4 to share a single family home) Specialty Contractors	20.00 MO		-	90,000	-	-		4,500.00 /MO	90,000	5,942.33 /MO	118,847
					Personnel moving expense for 4 GC Management Staff	3.00 EA		-	16,500	-	-		5,500.00 /EA	16,500	7,262.85 /EA	21,789
					Personnel moving expense for 8 specialty workers	6.00 EA		-	30,000	-	-		5,000.00 /EA	30,000	6,602.59 /EA	39,616
					01.01.06.02 GC Temporary Facilities & Services	20.00 MO			389,475				19,473.75 /MO	389,475	25,715.44 /MO	514,309
					01.I5.013 Travel	*1.00* LS			389,475				389,475.00 /LS	389,475	514,308.75 /LS	514,309
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	86.00 wk	172	15,526	-	-	-	-	180.54 /wk	15,526	225.31 /wk	19,377

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Dumpster Rental	20.00 MO		-	24,000	-	-	-	1,200.00 /MO	24,000	1,584.62 /MO	31,692
					Dumpster Pulls	20.00 ea		-	15,500	-	-	-	775.00 /ea	15,500	1,023.40 /ea	20,468
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,121.00 /ls	38,121
					01.01.06.02 GC Temporary Facilities & Services	20.00 MO	772	43,426	42,000				4,271.31 /MO	85,426	5,482.92 /MO	109,658
					01.I5.014 Site Cleanup	***1.00*** **LS**	**772**	**43,426**	**42,000**				**85,426.10 /LS**	**85,426**	**109,658.32 /LS**	**109,658**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,025.91 /ls	66,026
					First Aid Consumables	20.00 MO		-	10,000	-	-	-	500.00 /MO	10,000	660.26 /MO	13,205
					01.01.06.02 GC Temporary Facilities & Services	20.00 MO			60,000				3,000.00 /MO	60,000	3,961.55 /MO	79,231
					01.I5.014A Site Safety	***1.00*** **LS**			**60,000**				**60,000.00 /LS**	**60,000**	**79,231.09 /LS**	**79,231**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	20.00 mo		-	-	-	16,240	-	812.00 /mo	16,240	1,013.39 /mo	20,268
					Yard Pickup Truck (4)	20.00 mo		-		-	16,240	-	812.00 /mo	16,240	1,013.39 /mo	20,268
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	990.39 /ea	1,981
					Small Tools (~0.5% Labor)	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,025.91 /ls	66,026
					Ice Machine	20.00 MO		-	5,000	-	-	-	250.00 /MO	5,000	330.13 /MO	6,603
					Coolers & Drinking Cups	20.00 mo		-	2,000	-	-	-	100.00 /mo	2,000	132.05 /mo	2,641
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,583.36 /ea	8,583
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			65,000		32,480		97,480.00 /LS	97,480	126,369.28 /LS	126,369
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**65,000**		**32,480**		**97,480.00 /LS**	**97,480**	**126,369.28 /LS**	**126,369**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,532.89 /ea	16,533
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	363.14 /ea	7,263
					Construction Photos	20.00 MO		-	7,000	0	-	-	350.00 /MO	7,000	462.18 /MO	9,244
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	33,012.95 /ea	33,013
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,527.57 /day	190,947
					01.01.06.04 GC Indirect Services & Support	20.00 MO	1,000	95,000	50,020		58,000		10,151.00 /MO	203,020	12,849.95 /MO	256,999
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**95,000**	**50,020**		**58,000**		**203,020.00 /LS**	**203,020**	**256,999.07 /LS**	**256,999**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	20.00 MO	3,467	398,659	-	-	-	-	19,932.95 /MO	398,659	24,876.68 /MO	497,534
					01-01-06-01 GC Labor	20.00 MO	3,467	398,659					19,932.95 /MO	398,659	24,876.68 /MO	497,534
					01.I6.000 Quality Control	***1.00*** **LS**	**3,467**	**398,659**					**398,659.00 /LS**	**398,659**	**497,533.61 /LS**	**497,534**
					01.01 Construction Operations	***20.00*** MO	18,976	2,429,225	1,281,388		133,864		192,223.86 /MO	3,844,477	244,543.88 /MO	4,890,878
					01.0 General Requirements	***20.00*** MO	18,976	2,429,225	1,281,388		133,864		192,223.86 /MO	3,844,477	244,543.88 /MO	4,890,878
					00.0 General Conditions	***1.00*** **LS**	**18,976**	**2,429,225**	**1,281,388**		**133,864**		**3,844,477.28 /LS**	**3,844,477**	**4,890,877.52 /LS**	**4,890,878**
09.0					**Funks 230KV Substation for PG&E Connection**											
	01.0				General Requirements											
		01.01			Construction Operations											
			34.95.CONEQ		**CONSTRUCTION EQUIPMENT**											
				33.71.91.01	Power Substation											
					Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	104.00 week	4,160	513,885	-	-	357,107	-	8,374.92 /week	870,992	10,452.05 /week	1,087,013
					Crane crew, daily use for small jobs, 25-ton truck-mounted hydraulic crane, portal to portal	250.00 day	2,000	260,450	-	-	579,686	-	3,360.54 /day	840,136	4,194.02 /day	1,048,505
					Crane crew, daily use for small jobs, 100-ton truck-mounted hydraulic crane, portal to portal	60.00 day	960	118,020	-	-	135,902	-	4,232.05 /day	253,923	5,281.67 /day	316,900
					Rent crawler mounted, lattice boom crane, 165 ton, 60' boom	30.00 day		-	-	-	79,470	-	2,649.00 /day	79,470	3,306.00 /day	99,180
					Mobilization or demobilization, delivery charge for equipment, on flatbed trailer behind pickup truck	2.00 ea	4	395	-	-	175	-	284.83 /ea	570	355.48 /ea	711
					Mobilization or demobilization, crane, truck-mounted, up to 75 ton, (driver only, one-way)	2.00 ea	2	289	-	-	-	-	144.70 /ea	289	180.58 /ea	361
					Mobilization or demobilization, crane, truck-mounted, over 75 ton	2.00 ea	13	1,468	-	-	156	-	812.35 /ea	1,625	1,013.82 /ea	2,028
					Mobilization or demobilization, crane, crawler-mounted, over 75 ton	2.00 ea	21	2,447	-	-	1,552	-	1,999.59 /ea	3,999	2,495.53 /ea	4,991
					33.71.91.01 Power Substation	***1.00*** LS	7,160	896,955			1,154,049		2,051,003.46 /LS	2,051,003	2,559,689.28 /LS	2,559,689
					34.95.CONEQ CONSTRUCTION EQUIPMENT	***1.00*** **LS**	**7,160**	**896,955**			**1,154,049**		**2,051,003.46 /LS**	**2,051,003**	**2,559,689.28 /LS**	**2,559,689**
					01.01 Construction Operations	***20.00*** MO	7,160	896,955			1,154,049		102,550.17 /MO	2,051,003	127,984.46 /MO	2,559,689
					01.0 General Requirements	***20.00*** MO	7,160	896,955			1,154,049		102,550.17 /MO	2,051,003	127,984.46 /MO	2,559,689
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.10.CTRLFND		**Control Station Foundation**											
				03.10.05.12	Cast-In-Place Concrete, Slabs on Grade, 12" thick											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	7.10 cy		-	305	-	-	-	43.00 /cy	305	65.38 /cy	464
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	14.20 cy		-	419	-	-	-	29.50 /cy	419	44.85 /cy	637
					Underslab vapor barrier, visqueen membrane to 6 mil	1,150.00 sf	2	271	64	-	-	-	0.29 /sf	335	0.43 /sf	490
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.30 ton	32	3,744	3,278	-	-	-	3,052.85 /ton	7,022	4,523.89 /ton	10,405
					Reinforcing in place, unloading & sorting, add to above - slabs	2.30 ton	1	154	-	-	53	-	89.94 /ton	207	130.24 /ton	300
					Reinforcing in place, crane cost for handling, add to above, slabs	2.30 ton	1	167	-	-	58	-	97.77 /ton	225	141.57 /ton	326
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	44.72 cy		-	7,513	-	-	-	168.00 /cy	7,513	255.45 /cy	11,424
					Structural concrete, placing, foundation mat, direct chute, over 20 C.Y., includes strike off & consolidation, excludes material	44.72 CY	6	562	-	-	7	-	12.73 /CY	570	18.44 /CY	825
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	1,150.00 sf	16	1,468	-	-	59	-	1.33 /sf	1,527	1.92 /sf	2,211
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	1,150.00 sf	5	442	288	-	-	-	0.63 /sf	730	0.94 /sf	1,078
					Curing, sprayed membrane curing compound	11.50 csf	2	176	184	-	-	-	31.33 /csf	360	46.52 /csf	535
					Fine grading, fine grade for slab on grade, machine	127.78 sy	2	212	-	-	137	-	2.73 /sy	349	3.96 /sy	505
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	44.72 CY	68	7,196	12,051		314		437.39 /CY	19,561	652.89 /CY	29,198
					03.10.CTRLFND Control Station Foundation	**44.72 CY**	**68**	**7,196**	**12,051**		**314**		**437.39 /CY**	**19,561**	**652.89 /CY**	**29,198**
			03.10.XFMRPAD		**Substation Transformer Foundations**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.12	**Cast-In-Place Concrete, Slabs on Grade, 12" thick**											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	15.49 cy		-	666	-	-	-	43.00 /cy	666	65.38 /cy	1,013
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	30.98 cy		-	914	-	-	-	29.50 /cy	914	44.85 /cy	1,389
					Underslab vapor barrier, visqueen membrane to 6 mil	2,509.00 sf	5	590	141	-	-	-	0.29 /sf	731	0.43 /sf	1,069
					C.I.P. concrete forms, slab on grade, curb, wood, 6" to 12" high, 2 use, includes erecting, bracing, stripping and cleaning	864.00 sfca	111	11,552	1,806	-	-	-	15.46 /sfca	13,358	22.54 /sfca	19,474
					C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning	297.00 lf	16	1,655	247	-	-	-	6.40 /lf	1,901	9.33 /lf	2,771
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	6.27 ton	87	10,212	8,939	-	-	-	3,052.86 /ton	19,151	4,523.90 /ton	28,378
					Reinforcing in place, A615 Gr 60, slab on grade, #3 to #7	2.31 lb	0	2	2	-	-	-	1.52 /lb	4	2.25 /lb	5
					Reinforcing in place, unloading & sorting, add to above - slabs	8.58 ton	5	573	-	-	199	-	89.94 /ton	772	130.24 /ton	1,118
					Reinforcing in place, crane cost for handling, add to above, slabs	8.58 ton	5	623	-	-	216	-	97.76 /ton	839	141.56 /ton	1,215
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	218.91 cy		-	36,776	-	-	-	168.00 /cy	36,776	255.45 /cy	55,919
					Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes strike off & consolidation, excludes material	218.91 CY	64	5,837	-	-	76	-	27.01 /CY	5,913	39.12 /CY	8,563
					Concrete finishing, floors, basic finishing for unspecified flatwork, bull float only, excludes placing, striking off & consolidating	2,509.00 sf	15	1,373	-	-	-	-	0.55 /sf	1,373	0.79 /sf	1,989
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	2,509.00 sf	11	965	627	-	-	-	0.63 /sf	1,592	0.94 /sf	2,351
					Curing, sprayed membrane curing compound	25.09 csf	4	385	401	-	-	-	31.33 /csf	786	46.52 /csf	1,167
					Fine grading, fine grade for slab on grade, machine	278.78 sy	4	463	-	-	298	-	2.73 /sy	762	3.96 /sy	1,103
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	**218.91 CY**	**327**	**34,230**	**50,518**		**790**		**390.75 /CY**	**85,538**	**582.55 /CY**	**127,523**
					03.10.XFMRPAD Substation Transformer Foundations	**218.91 CY**	**327**	**34,230**	**50,518**		**790**		**390.75 /CY**	**85,538**	**582.55 /CY**	**127,523**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**263.63 CY**	**395**	**41,426**	**62,569**		**1,104**		**398.66 /CY**	**105,099**	**594.48 /CY**	**156,722**
					03.0 Concrete Work	**263.63 CY**	**395**	**41,426**	**62,569**		**1,104**		**398.66 /CY**	**105,099**	**594.48 /CY**	**156,722**
	05.0				**Metals**											
		05.10			**Structural Steel**											
			34.10.STEEL		**Substation Steel Supports**											
				33.71.91.01	**Power Substation**											
					Welding structural steel, 4 passes, 0.7 Lb/LF, 1/2" thick, continuous fillet, type 6011	202.00 lf	73	9,382	566	-	1,378	-	56.07 /lf	11,325	81.39 /lf	16,440
					Structural steel project, fossil fuel power station, 100-ton project, A992 steel, shop fabricated, incl shop primer, bolted connections, maximum	205.00 ton	4,604	573,353	1,009,625	-	116,416	-	8,289.73 /ton	1,699,394	12,360.73 /ton	2,533,951
					Column base plates, structural, light, 100-ton project, up to 150 lb each, A992 steel, shop fabricated, incl shop primer	1,200.00 lb	10	1,191	2,172	-	-	-	2.80 /lb	3,363	4.19 /lb	5,027
					33.71.91.01 Power Substation	***1.00* LS**	**4,687**	**583,926**	**1,012,363**		**117,793**		**1,714,081.62 /LS**	**1,714,082**	**2,555,417.36 /LS**	**2,555,417**
					34.10.STEEL Substation Steel Supports	***1.00* LS**	**4,687**	**583,926**	**1,012,363**		**117,793**		**1,714,081.62 /LS**	**1,714,082**	**2,555,417.36 /LS**	**2,555,417**
					05.10 Structural Steel	***1.00* LS**	**4,687**	**583,926**	**1,012,363**		**117,793**		**1,714,081.62 /LS**	**1,714,082**	**2,555,417.36 /LS**	**2,555,417**
					05.0 Metals	***1.00* LS**	**4,687**	**583,926**	**1,012,363**		**117,793**		**1,714,081.62 /LS**	**1,714,082**	**2,555,417.36 /LS**	**2,555,417**
	13.0				**Special Construction**											
		13.01			**Buildings Complete**											
			26.00.HOUSE		**Substation Control House**											
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Control House	1.00 ea	1,200	125,180	2,500,000	-	-	-	2,625,180.40 /ea	2,625,180	3,457,522.43 /ea	3,457,522
					26.25.03.00 Electrical Equipment, Switchgear - General	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,457,522.43 /LS**	**3,457,522**
					26.00.HOUSE Substation Control House	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,457,522.43 /LS**	**3,457,522**
					13.01 Buildings Complete	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,457,522.43 /LS**	**3,457,522**
					13.0 Special Construction	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,457,522.43 /LS**	**3,457,522**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.10.CABLE		**Substation Cabling**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Tray cable, type TC, copper, 600 V, #12-4 conductor	100.00 clf	121	12,644	12,800	-	-	-	254.44 /clf	25,444	326.83 /clf	32,683
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 3 conductor	100.00 clf	133	13,909	2,050	-	-	-	159.59 /clf	15,959	200.66 /clf	20,066
					Innerduct	65.00 clf	65	6,781	1,463	-	-	-	126.82 /clf	8,243	159.90 /clf	10,394
					FO cable	75.00 clf	75	7,824	2,513	-	-	-	137.82 /clf	10,336	174.43 /clf	13,082
					Unshielded twisted pair (UTP) cable, stranded, PVC jacket, #24, 4 pair, category 6	100.00 clf	114	11,922	2,450	-	-	-	143.72 /clf	14,372	181.14 /clf	18,114
					Coaxial cable, 75 ohm, RG A/U #59 cable	50.00 clf	50	5,216	1,600	-	-	-	136.32 /clf	6,816	172.45 /clf	8,622
					26.15.01.00 Process Electrical, Wire/Cable	***1.00* LS**	**559**	**58,296**	**22,875**				**81,170.59 /LS**	**81,171**	**102,960.79 /LS**	**102,961**
					26.10.CABLE Substation Cabling	***1.00* LS**	**559**	**58,296**	**22,875**				**81,170.59 /LS**	**81,171**	**102,960.79 /LS**	**102,961**
			26.10.COND.UG		**Conduit and Raceways - Underground**											
				26.25.01.00	**Cable Trench**											
					Parking barriers, wheel stops, thermoplastic, 6" x 10" x 6'-0"	150.00 ea	50	4,586	8,025	-	-	-	84.07 /ea	12,611	108.81 /ea	16,321
					Cable Trench 3x2x10' section with lid	450.00 LF	630	67,375	103,680	-	26,788	-	439.65 /LF	197,843	565.40 /LF	254,428
					Cable Trench 3x2 end plate	2.00 ea	4	428	500	-	119	-	523.42 /ea	1,047	671.36 /ea	1,343
					26.25.01.00 Cable Trench	**450.00 LF**	**684**	**72,389**	**112,205**		**26,907**		**470.00 /LF**	**211,501**	**604.65 /LF**	**272,092**
				31.20.07.10	**Earthworks, Sitework, Excavating**											
					Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	100.00 CY	16	1,728	-	-	189	-	19.17 /CY	1,917	23.92 /CY	2,392
					Excavating, trench or continuous footing, common earth, 5/8 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	983.11 CY	63	6,960	-	-	3,262	-	10.40 /CY	10,221	12.98 /CY	12,756
					Excavating, bulk bank measure, 2-1/4 C.Y. capacity = 100 C.Y./hour, wheel mounted, excluding truck loading	1,637.00 CY	33	3,722	-	-	1,375	-	3.11 /CY	5,097	3.89 /CY	6,362
					31.20.07.10 Earthworks, Sitework, Excavating	**2,720.11 CY**	**112**	**12,410**			**4,826**		**6.34 /CY**	**17,235**	**7.91 /CY**	**21,510**
				31.20.07.15	**Earthworks, Sitework, Backfill**											
					Reinforcing Steel, in place, beams and girders, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	17.21 ton	344	40,272	24,524	-	-	-	3,765.04 /ton	64,796	4,802.15 /ton	82,645
					Borrow, common earth, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel-mounted	1,932.00 bcy	48	5,491	55,062	-	925	-	31.82 /bcy	61,478	41.78 /bcy	80,718
					Bedding, crushed stone 3/4" to 1/2"	134.69 lcy	22	2,195	5,186	-	254	-	56.68 /lcy	7,634	73.53 /lcy	9,904
					Concrete (red) envelope/encasement, poured neat	688.11 cy	447	40,997	96,335	-	494	-	200.30 /cy	137,827	260.13 /cy	178,995
					End bulkheads, plywood, concrete envelope/encasement	400.00 sf	48	5,002	292	-	-	-	13.23 /sf	5,294	16.57 /sf	6,628

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.20.07.15	**Earthworks, Sitework, Backfill**											
					Plywood side forms, concrete envelope/encasement	10,400.00 sfca	416	43,455	24,336	-	-	-	6.52 /sfca	67,791	8.30 /sfca	86,369
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	788.11 CY	81	8,017	7,881	-	7,365	-	29.52 /CY	23,263	37.56 /CY	29,604
					Load excavated spoils	788.11 cy	10	1,120		-	993	-	2.68 /cy	2,113	3.35 /cy	2,638
					Compaction, 3 passes, 6" lifts, towed vibrating roller	1,932.00 bcy	58	6,589	-	-	2,344	-	4.62 /bcy	8,934	5.77 /bcy	11,149
					31.20.07.15 Earthworks, Sitework, Backfill	**788.11 CY**	**1,474**	**153,138**	**213,616**		**12,376**		**481.06 /CY**	**379,131**	**620.03 /CY**	**488,649**
					26.10.COND.UG Conduit and Raceways - Underground	**450.00 LF**	**2,270**	**237,937**	**325,821**		**44,109**		**1,350.82 /LF**	**607,867**	**1,738.34 /LF**	**782,251**
			26.10.GRID		**Substation Ground Grid**											
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 5/8" diameter	100.00 ea	145	15,173	2,200	-	-	-	173.73 /ea	17,373	218.42 /ea	21,842
					Compression Connector/Splice	890.00 ea	356	37,137	32,930	-	-	-	78.73 /ea	70,067	100.93 /ea	89,832
					Grounding rod, copper clad, 15' long, 3/4" diameter	100.00 ea	200	20,863	10,200	-	-	-	310.63 /ea	31,063	395.07 /ea	39,507
					Ground wire, copper wire, bare stranded, #4	1.00 clf	1	104	159	-	-	-	263.32 /clf	263	340.14 /clf	340
					Ground wire, copper wire, bare stranded, 1/0	2.00 clf	4	417	660	-	-	-	538.64 /clf	1,077	696.16 /clf	1,392
					Ground wire, copper wire, bare stranded, 250 kcmil	175.00 clf	583	60,852	142,625	-	-	-	1,162.72 /clf	203,477	1,510.19 /clf	264,283
					Ground wire, aluminum wire, bare stranded, #4	10.00 clf	10	1,043	335	-	-	-	137.82 /clf	1,378	174.43 /clf	1,744
					Exothermic weld	650.00 ea	650	67,806	2,997	-	-	-	108.93 /ea	70,803	136.28 /ea	88,580
					Exothermic weld, mold reusable for above	100.00 ea		-	16,600	-	-	-	166.00 /ea	16,600	219.21 /ea	21,921
					Gate Grounding Detail D1/5001	2.00 ea	6	626	400	-	-	-	512.96 /ea	1,026	654.69 /ea	1,309
					Fence Grounding Detail C7/5001	100.00 ea	200	20,863	20,000	-	-	-	408.63 /ea	40,863	524.48 /ea	52,448
					Post Grounding Detail D4/5001	100.00 ea	300	31,295	20,000	-	-	-	512.95 /ea	51,295	654.68 /ea	65,468
					Switch Operator Platform 3x4	10.00 ea	10	1,043	3,000	-	-	-	404.32 /ea	4,043	526.35 /ea	5,263
					26.15.11.00 Process Electrical, Grounding	**188.00 clf**	**2,466**	**257,224**	**252,106**				**2,709.20 /clf**	**509,329**	**3,478.35 /clf**	**653,930**
					26.10.GRID Substation Ground Grid	***1.00*** **LS**	**2,466**	**257,224**	**252,106**				**509,329.41 /LS**	**509,329**	**653,929.91 /LS**	**653,930**
					26.15 Process Electrical	***1.00*** **LS**	**5,294**	**553,456**	**600,802**		**44,109**		**1,198,367.22 /LS**	**1,198,367**	**1,539,142.00 /LS**	**1,539,142**
		26.20			**Facility Electrical**											
			26.10.LTG		**Substation Lighting**											
				26.15.07.00	**Lighting**											
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	151.25 clf	121	12,622	6,806	-	-	-	128.45 /clf	19,429	163.57 /clf	24,741
					Grouding of pole	15.00 ea	8	782	270	-	-	-	70.16 /ea	1,052	88.86 /ea	1,333
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,000.00 lf	100	10,432	4,840	-	-	-	15.27 /lf	15,272	19.41 /lf	19,410
					Type S Fixture	10.00 EA	20	2,086	15,000	-	-	-	1,708.63 /EA	17,086	2,241.16 /EA	22,412
					Type B Fixture	40.00 EA	80	8,345	60,000	-	-	-	1,708.63 /EA	68,345	2,241.16 /EA	89,646
					Type E fixture	32.00 EA	64	6,676	48,000	-	-	-	1,708.63 /EA	54,676	2,241.16 /EA	71,717
					Light poles w/ anchor base, aluminum, to 30' high	15.00 ea	120	13,419	37,500	-	2,952	-	3,591.39 /ea	53,871	4,663.37 /ea	69,951
					Avg cost, concrete pole base, max. 6'0" buried, 2'0" exposed, 18" dia.	15.00 ea	60	6,259	14,250	-	-	-	1,367.27 /ea	20,509	1,775.25 /ea	26,629
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 1" diameter, schedule 40, installed by direct burial in slab or duct bank	2,500.00 lf	77	8,024	4,575	-	-	-	5.04 /lf	12,599	6.42 /lf	16,056
					26.15.07.00 Lighting	**82.00 EA**	**649**	**68,646**	**191,241**		**2,952**		**3,205.36 /EA**	**262,840**	**4,169.44 /EA**	**341,894**
					26.10.LTG Substation Lighting	***1.00*** **LS**	**649**	**68,646**	**191,241**		**2,952**		**262,839.90 /LS**	**262,840**	**341,893.93 /LS**	**341,894**
					26.20 Facility Electrical	***1.00*** **LS**	**649**	**68,646**	**191,241**		**2,952**		**262,839.90 /LS**	**262,840**	**341,893.93 /LS**	**341,894**
		26.25			**Electrical Equipment**											
			34.10.SUBEQ		**Substation Equipment**											
				33.71.91.01	**Power Substation**											
					AAC 397.5kcmil CANNA 555	1,900.00 lf	133	13,874	3,800	-	-	-	9.30 /lf	17,674	11.75 /lf	22,333
					AAC 1431kcmil CARNATION 1999	1,000.00 lf	90	9,389	3,250	-	-	-	12.64 /lf	12,639	16.01 /lf	16,009
					AAC 2500kcmil LUPINE 3524	1,000.00 lf	100	10,432	11,000	-	-	-	21.43 /lf	21,432	27.54 /lf	27,545
					AAC 4/0 OXLIP 296	200.00 lf	12	1,252	300	-	-	-	7.76 /lf	1,552	9.79 /lf	1,958
					Power Transformer, 75/100/125MVA 230kV-13.8kV	2.00 ea	1,200	142,740	5,500,000	-	-	-	2,821,370.00 /ea	5,642,740	3,720,495.59 /ea	7,440,991
					SF6 CB 3000A 230kV	3.00 ea	300	35,685	540,000	-	-	-	191,895.00 /ea	575,685	252,538.42 /ea	757,615
					Air Disconnect Switch 3000A motorized 3ph 230kV	10.00 ea	400	47,580	500,000	-	-	-	54,758.00 /ea	547,580	71,963.97 /ea	719,640
					CVT 230kV	4.00 ea	64	7,613	300,000	-	-	-	76,903.20 /ea	307,613	101,414.08 /ea	405,656
					Metering Enclosure #1 Bally #102	1.00 ea	40	4,758	45,000	-	-	-	49,758.00 /ea	49,758	65,361.38 /ea	65,361
					MVCT 230kV	2.00 ea	32	3,806	150,000	-	-	-	76,903.20 /ea	153,806	101,414.07 /ea	202,828
					LA 230kV	2.00 ea	32	3,806	150,000	-	-	-	76,903.20 /ea	153,806	101,414.08 /ea	202,828
					Post Insulator 900kV BIL	54.00 ea	432	51,386	270,000	-	-	-	5,951.60 /ea	321,386	7,790.20 /ea	420,671
					Post Insulator 200kV BIL	90.00 ea	720	85,644	450,000	-	-	-	5,951.60 /ea	535,644	7,790.20 /ea	701,118
					Swaged XJ PLK2600D	30.00 ea	120	14,274	36,000	-	-	-	1,675.80 /ea	50,274	2,178.43 /ea	65,353
					Swaged Bus Support PLK2230D	42.00 ea	168	19,984	10,500	-	-	-	725.80 /ea	30,484	923.94 /ea	38,805
					Swaged Tee 4 to (2)3" PLK1600D	6.00 ea	24	2,855	2,400	-	-	-	875.80 /ea	5,255	1,122.02 /ea	6,732
					Swaged Term Pad PLK1850D	36.00 ea	144	17,129	14,400	-	-	-	875.80 /ea	31,529	1,122.01 /ea	40,393
					Swaged Tee 4 to 3" PLK1500D	12.00 ea	48	5,710	4,800	-	-	-	875.80 /ea	10,510	1,122.01 /ea	13,464
					Swaged Tee 3 to (2)3" PLK1500D	12.00 ea	48	5,710	4,800	-	-	-	875.80 /ea	10,510	1,122.02 /ea	13,464
					Swaged Tee 4 to 4/0 CL430D64	6.00 ea	24	2,855	2,400	-	-	-	875.80 /ea	5,255	1,122.01 /ea	6,732
					SQD H326NR 600A FU DS	2.00 ea	24	2,855	2,400	-	-	-	2,627.40 /ea	5,255	3,366.05 /ea	6,732
					S&C SMD-20 Fure Holder and Fuse	6.00 ea	24	2,855	7,200	-	-	-	1,675.80 /ea	10,055	2,178.43 /ea	13,071
					Eaton CA201001-EN 1ph 50kVA 95BIL 15kv/120-240 SSVT	6.00 ea	144	17,129	7,200	-	-	-	4,054.80 /ea	24,329	5,147.46 /ea	30,885
					Bus 3" (2.6# per lf)	390.00 lb	156	16,273	4,680	-		-	53.73 /lb	20,953	67.92 /lb	26,490
					Bus 4" (3.7# per lf)	6,290.00 lb	2,516	262,462	75,480	-		-	53.73 /lb	337,942	67.92 /lb	427,229
					Bus 6" (6.5# per lf)	1,950.00 lb	780	81,367	23,400	-		-	53.73 /lb	104,767	67.92 /lb	132,448
					33.71.91.01 Power Substation	***1.00*** **LS**	**7,775**	**869,421**	**8,119,010**				**8,988,431.07 /LS**	**8,988,431**	**11,806,352.13 /LS**	**11,806,352**
					34.10.SUBEQ Substation Equipment	***1.00*** **LS**	**7,775**	**869,421**	**8,119,010**				**8,988,431.07 /LS**	**8,988,431**	**11,806,352.13 /LS**	**11,806,352**
					26.25 Electrical Equipment	***1.00*** **LS**	**7,775**	**869,421**	**8,119,010**				**8,988,431.07 /LS**	**8,988,431**	**11,806,352.13 /LS**	**11,806,352**
					26.0 Electrical Work	***1.00*** **LS**	**13,719**	**1,491,524**	**8,911,053**		**47,061**		**10,449,638.19 /LS**	**10,449,638**	**13,687,388.06 /LS**	**13,687,388**
	31.0				**Earthwork**											
		31.17			**Piling and Caissons**											
			31.TYPE.A		**Substation Equipment Foundation 30"Rx54" Type A - D3/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	37.63 cy		-	5,645	-	-	-	150.00 /cy	5,645	228.08 /cy	8,583
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	37.67 CY	4	383	377	-	352	-	29.52 /CY	1,112	43.47 /CY	1,637
					Load excavated spoils	37.67 cy	0	54		-	47	-	2.68 /cy	101	3.88 /cy	146

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.17.02.00	Earthworks, Caissons											
					Mobilization for rig	46.00 EA	92	11,287	-	-	270	-	251.24 /EA	11,557	363.80 /EA	16,735
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.182 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	207.00 vlf	207	21,166	7,142	-	1,205	-	142.57 /vlf	29,513	208.95 /vlf	43,252
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	1,014.30 lb		-	1,268	-	-	-	1.25 /lb	1,268	1.90 /lb	1,928
					31.17.02.00 Earthworks, Caissons	**207.00 vlf**	**303**	**32,890**	**14,431**		**1,875**		**237.66 /vlf**	**49,196**	**349.19 /vlf**	**72,282**
					31.TYPE.A Substation Equipment Foundation 30"Rx54" Type A - D3/6001	**46.00 EA**	**303**	**32,890**	**14,431**		**1,875**		**1,069.47 /EA**	**49,196**	**1,571.36 /EA**	**72,282**
			31.TYPE.B		**Substation Equipment Foundation 36"Rx54" Type B - A3/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	18.85 cy		-	2,828	-	-	-	150.00 /cy	2,828	228.08 /cy	4,299
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	13.10 CY	1	133	131	-	122	-	29.52 /CY	387	43.47 /CY	569
					Load excavated spoils	13.10 cy	0	19		-	17	-	2.68 /cy	35	3.88 /cy	51
					Mobilization for rig	16.00 EA	32	3,926	-	-	94	-	251.24 /EA	4,020	363.80 /EA	5,821
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	72.00 vlf	72	7,362	3,564	-	503	-	158.74 /vlf	11,429	233.44 /vlf	16,808
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	529.20 lb		-	662	-	-	-	1.25 /lb	662	1.90 /lb	1,006
					31.17.02.00 Earthworks, Caissons	**72.00 vlf**	**106**	**11,440**	**7,184**		**736**		**268.89 /vlf**	**19,360**	**396.59 /vlf**	**28,554**
					31.TYPE.B Substation Equipment Foundation 36"Rx54" Type B - A3/6001	**16.00 EA**	**106**	**11,440**	**7,184**		**736**		**1,209.99 /EA**	**19,360**	**1,784.63 /EA**	**28,554**
			31.TYPE.C		**Substation Equipment Foundation 60"Rx168" Type C - A5/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	40.72 cy		-	6,109	-	-	-	150.00 /cy	6,109	228.08 /cy	9,288
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	40.71 CY	4	414	407	-	380	-	29.52 /CY	1,202	43.47 /CY	1,770
					Load excavated spoils	40.71 cy	1	58		-	51	-	2.68 /cy	109	3.88 /cy	158
					Mobilization for rig, average cost per vlf, add	4.00 EA	8	981	-	-	23	-	251.24 /EA	1,005	363.81 /EA	1,455
					Fixd end cssn pils,open styl stbl grnd,50'd,60"dm,0.727 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	56.00 vlf	56	5,726	7,728	-	543	-	249.95 /vlf	13,997	371.94 /vlf	20,829
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	3,564.40 lb		-	4,456	-	-	-	1.25 /lb	4,456	1.90 /lb	6,775
					31.17.02.00 Earthworks, Caissons	**56.00 vlf**	**69**	**7,179**	**18,699**		**999**		**479.95 /vlf**	**26,877**	**719.19 /vlf**	**40,275**
					31.TYPE.C Substation Equipment Foundation 60"Rx168" Type C - A5/6001	**4.00 EA**	**69**	**7,179**	**18,699**		**999**		**6,719.34 /EA**	**26,877**	**10,068.64 /EA**	**40,275**
			31.TYPE.D		**Substation Equipment Foundation 36"Rx72" Type D - C8/6001**											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	25.13 cy		-	3,769	-	-	-	150.00 /cy	3,769	228.08 /cy	5,731
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	17.47 CY	2	178	175	-	163	-	29.52 /CY	516	43.47 /CY	759
					Load excavated spoils	17.47 cy	0	25	0	-	22	-	2.68 /cy	47	3.88 /cy	68
					Mobilization for rig	9.00 EA	18	2,208	-	-	53	-	251.24 /EA	2,261	363.80 /EA	3,274
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	72.00 vlf	72	7,362	3,564	-	503	-	158.74 /vlf	11,429	233.44 /vlf	16,808
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	705.42 lb		-	882	-	-	-	1.25 /lb	882	1.90 /lb	1,341
					31.17.02.00 Earthworks, Caissons	**72.00 vlf**	**92**	**9,773**	**8,390**		**741**		**262.55 /vlf**	**18,904**	**388.63 /vlf**	**27,981**
					31.TYPE.D Substation Equipment Foundation 36"Rx72" Type D - C8/6001	**9.00 EA**	**92**	**9,773**	**8,390**		**741**		**2,100.40 /EA**	**18,904**	**3,109.00 /EA**	**27,981**
					31.17 Piling and Caissons	**407.00 vlf**	**570**	**61,282**	**48,704**		**4,351**		**280.92 /vlf**	**114,336**	**415.46 /vlf**	**169,092**
					31.0 Earthwork	**108.95 CY**	**570**	**61,282**	**48,704**		**4,351**		**1,049.44 /CY**	**114,336**	**1,552.01 /CY**	**169,092**
	32.0				**Exterior Improvements**											
		32.12			**Paving**											
			32.00.006		**Substation Gravel Surfacing**											
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Clear and Grubbing Project Site	22,222.22 sy	133	14,458		-	8,605	-	1.04 /sy	23,062	1.50 /sy	33,395
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	310.00 CY	32	3,153	3,100	-	2,897	-	29.52 /CY	9,151	43.47 /CY	13,475
					Load excavated spoils	310.00 cy	4	441		-	391	-	2.68 /cy	831	3.88 /cy	1,204
					Erosion Controls Allowance	1.00 ls	120	12,221	5,000	-	1,414	-	18,634.60 /ls	18,635	27,345.75 /ls	27,346
					31.15.01.00 Site Preparation, Clearing and Grubbing	**310.00 CY**	**289**	**30,273**	**8,100**		**13,306**		**166.71 /CY**	**51,679**	**243.29 /CY**	**75,419**
				32.40.04.00	Site Improvements, Access Roads, Gravel											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	22,222.22 SY	178	19,203	-	-	12,367	-	1.42 /SY	31,570	2.06 /SY	45,713
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	7,406.67 cy	148	17,081	-	-	27,924	-	6.08 /cy	45,005	8.80 /cy	65,168
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	7,406.67 cy	760	75,343	-	-	69,219	-	19.52 /cy	144,562	28.26 /cy	209,329
					Load excavated spoils	7,406.67 cy	69	7,894		-	7,002	-	2.01 /cy	14,897	2.91 /cy	21,570
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,6"deep	22,222.22 sy	263	28,838	162,222	-	20,418	-	9.52 /sy	211,478	14.31 /sy	317,985
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	22,222.22 sy	152	17,324	-	-	10,497	-	1.25 /sy	27,821	1.81 /sy	40,285
					32.40.04.00 Site Improvements, Access Roads, Gravel	**22,222.22 SY**	**1,571**	**165,682**	**162,222**		**147,428**		**21.39 /SY**	**475,332**	**31.50 /SY**	**700,051**
					32.00.006 Substation Gravel Surfacing	**22,222.22 SY**	**1,860**	**195,955**	**170,322**		**160,734**		**23.72 /SY**	**527,011**	**34.90 /SY**	**775,470**
					32.12 Paving	**22,222.22 SY**	**1,860**	**195,955**	**170,322**		**160,734**		**23.72 /SY**	**527,011**	**34.90 /SY**	**775,470**
		32.31			**Fencing**											
			32.00.004		**Substation Fencing**											
				32.45.01.00	Fencing, Chain Link											
					Fence Security Signage	40.00 ea	40	3,743	1,400	-	-	-	128.58 /ea	5,143	188.73 /ea	7,549
					Fence,chain link industrial,galvanized steel,3 strands barb wire,2"posts @ 10'oc,9ga wire,6'high,schedule 40,includes excavation,& concrete	1,948.00 LF	195	18,230	38,863	-	3,429	-	31.07 /LF	60,521	46.43 /LF	90,454
					Fence, chain link industrial, gate, galvanized steel, 4' wide, 5' high, 2" frame, includes excavation, in concrete	3.00 ea	7	674	687	-	127	-	495.84 /ea	1,488	734.59 /ea	2,204
					Fence, chain link industrial, double swing gates, 8' high, 20' opening, includes excavation, posts & hardware in concrete	2.00 opng	44	4,501	1,720	-	767	-	3,494.01 /opng	6,988	5,121.75 /opng	10,243
					32.45.01.00 Fencing, Chain Link	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**56.70 /LF**	**110,450**
					32.00.004 Substation Fencing	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**56.70 /LF**	**110,450**
					32.31 Fencing	**1,948.00 LF**	**286**	**27,148**	**42,670**		**4,322**		**38.06 /LF**	**74,140**	**56.70 /LF**	**110,450**
					32.0 Exterior Improvements	***1.00* LS**	**2,146**	**223,103**	**212,992**		**165,057**		**601,151.55 /LS**	**601,152**	**885,920.18 /LS**	**885,920**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					09.0 Funks 230KV Substation for PG&E Connection	***1.00*** **LS**	**29,876**	**3,423,396**	**12,747,680**		**1,489,414**		**17,660,490.60 /LS**	**17,660,491**	**23,471,750.96 /LS**	**23,471,751**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	5,852,621		48,851.376	
Material	14,029,068			
Subcontractor				
Equipment	1,623,279		20,589.177	
Other				
Subtotal Direct Costs	**21,504,968**	**21,504,968**		
Material Sales Tax, Dunnigan Ca	1,017,107			7.250 %
Subtotal w/ Tax	**1,017,107**	**22,522,075**		
Concrete Sub OH&P	21,020			20.000 %
Architectural OH&P	342,816			20.000 %
Earthwork Sub OH&P	143,098			20.000 %
Subtotal w/ Sub Markups	**506,934**	**23,029,009**		
Mobilization/Demobilization	1,046,581			3.000 %
Prime Contractor Home OfficeOH	1,381,741			6.000 %
Prime Contractor Profit	2,302,901			10.000 %
Bonds/Insurance	602,397			2.170 %
Subtotal w/ Prime Markups	**5,333,620**	**28,362,629**		
Contractor Contingency	1,418,131			5.000 %
Design Contingency	5,105,273			18.000 %
Subtotal w/ Contingency	**6,523,404**	**34,886,033**		
Opinion of Probable Construction Costs		**34,886,033**		

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Appendix M
Package 10
TRR Electrical Substation and Switchyard Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0	**General Conditions**	***1.00*** **LS**	**5,783,396.15 /LS**	**5,783,396**
09.0	**TRR 230KV Substation**	***1.00*** **LS**	**16,254,161.65 /LS**	**16,254,162**
09.1	**TRR Switchyard**	***1.00*** **LS**	**17,481,786.44 /LS**	**17,481,786**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	11,646,546		71,291.066	
Material	24,748,544			
Subcontractor				
Equipment	3,124,255		31,860.166	
Other				
Subtotal w/ Prime Markups	**39,519,345**	**39,519,345**		
Contractor Contingency	1,975,967			5.000 %
Design Contingency	7,113,482			18.000 %
Opinion of Probable Construction Costs	**9,089,449**	**48,608,794**		

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Work Activity Summary Report

Project Name: TRR Substation & Switchyard
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
00.0				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	*1.00* LS	9,947.33 /LS	9,947
			01.I5.005	GC Labor	*1.00* LS	2,301,392.73 /LS	2,301,393
			01.I5.010	Jobsite Office	*1.00* LS	670,805.27 /LS	670,805
			01.I5.011	Temporary Facilities	*1.00* LS	675,356.06 /LS	675,356
			01.I5.012	Temporary Services	*1.00* LS	228,609.29 /LS	228,609
			01.I5.013	Travel	*1.00* LS	669,136.50 /LS	669,137
			01.I5.014	Site Cleanup	*1.00* LS	124,705.35 /LS	124,705
			01.I5.014A	Site Safety	*1.00* LS	82,231.19 /LS	82,231
			01.I5.015	GC Equip, Tools, & Consumables	*1.00* LS	161,369.69 /LS	161,370
			01.I5.020	GC Indirect Services & Support	*1.00* LS	260,031.72 /LS	260,032
			01.I6.000	Quality Control	*1.00* LS	599,811.02 /LS	599,811
				01.01 Construction Operations	*24.00* MO	240,974.84 /MO	5,783,396
				01.0 General Requirements	*24.00* MO	240,974.84 /MO	5,783,396
				00.0 General Conditions	***1.00*** **LS**	**5,783,396.15 /LS**	**5,783,396**
09.0				**TRR 230KV Substation**			
	01.0			General Requirements			
		01.01		Construction Operations			
			34.90.CX	ENGINEERING, STARTUP, COMMISSIONING	*1.00* LS	565,980.91 /LS	565,981
			34.95.CONEQ	CONSTRUCTION EQUIPMENT	*1.00* LS	1,638,392.47 /LS	1,638,392
				01.01 Construction Operations	*12.00* MO	183,697.78 /MO	2,204,373
				01.0 General Requirements	*12.00* MO	183,697.78 /MO	2,204,373
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.10.CTRLFND	Control Station Foundation	44.72 CY	758.93 /CY	33,941
			03.10.XFMRPAD	Substation Transformer Foundations	218.91 CY	677.63 /CY	148,338
				03.18 Cast-In-Place Concrete, Slabs on Grade	263.63 CY	691.42 /CY	182,279
				03.0 Concrete Work	263.63 CY	691.42 /CY	182,279
	05.0			Metals			
		05.10		Structural Steel			
			34.10.STEEL	Substation Steel Supports	*1.00* LS	923,985.83 /LS	923,986
				05.10 Structural Steel	*1.00* LS	923,985.83 /LS	923,986
				05.0 Metals	*1.00* LS	923,985.83 /LS	923,986
	13.0			Special Construction			
		13.01		Buildings Complete			
			26.00.HOUSE	Substation Control House	*1.00* LS	2,929,345.90 /LS	2,929,346
				13.01 Buildings Complete	*1.00* LS	2,929,345.90 /LS	2,929,346
				13.0 Special Construction	*1.00* LS	2,929,345.90 /LS	2,929,346
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.10.CABLE	Substation Cabling	*1.00* LS	50,802.87 /LS	50,803
			26.10.COND.UG	Conduit and Raceways - Underground	12,512.00 LF	83.96 /LF	1,050,486
			26.10.GRID	Substation Ground Grid	*1.00* LS	189,252.18 /LS	189,252
				26.15 Process Electrical	*1.00* LS	1,290,540.96 /LS	1,290,541
		26.20		Facility Electrical			
			26.10.LTG	Substation Lighting	*1.00* LS	129,340.15 /LS	129,340
				26.20 Facility Electrical	*1.00* LS	129,340.15 /LS	129,340
		26.25		Electrical Equipment			
			34.10.SUBEQ	Substation Equipment	*1.00* LS	8,357,672.36 /LS	8,357,672
				26.25 Electrical Equipment	*1.00* LS	8,357,672.36 /LS	8,357,672
				26.0 Electrical Work	*1.00* LS	9,777,553.47 /LS	9,777,553
	31.0			Earthwork			
		31.17		Piling and Caissons			
			31.TYPE.A	Substation Equipment Foundation 30"Rx54" Type A - D3/6001	18.00 EA	1,604.50 /EA	28,881
			31.TYPE.B	Substation Equipment Foundation 36"Rx54" Type B - A3/6001	4.00 EA	1,791.72 /EA	7,167
			31.TYPE.C	Substation Equipment Foundation 60"Rx168" Type C - A5/6001	3.00 EA	10,107.52 /EA	30,323
				31.17 Piling and Caissons	142.80 LF	464.78 /LF	66,370
				31.0 Earthwork	48.88 CY	1,357.83 /CY	66,370
	32.0			Exterior Improvements			
		32.12		Paving			
			32.00.006	Substation Gravel Surfacing	3,333.33 SY	36.84 /SY	122,813
				32.12 Paving	3,333.33 SY	36.84 /SY	122,813
		32.31		Fencing			
			32.00.004	Substation Fencing	700.00 LF	67.77 /LF	47,441
				32.31 Fencing	700.00 LF	67.77 /LF	47,441
				32.0 Exterior Improvements	*1.00* LS	170,253.93 /LS	170,254
				09.0 TRR 230KV Substation	***1.00*** **LS**	**16,254,161.65 /LS**	**16,254,162**
09.1				**TRR Switchyard**			
	01.0			General Requirements			
		01.01		Construction Operations			
			34.90.CX	ENGINEERING, STARTUP, COMMISSIONING	*1.00* LS	1,355,296.01 /LS	1,355,296
			34.95.CONEQ	CONSTRUCTION EQUIPMENT	*1.00* LS	2,571,567.99 /LS	2,571,568
				01.01 Construction Operations	*12.00* MO	327,238.67 /MO	3,926,864
				01.0 General Requirements	*12.00* MO	327,238.67 /MO	3,926,864
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
			03.10.CTRLFND	Control Station Foundation	77.00 CY	1,017.88 /CY	78,377
			03.10.MTRFND	Meter Enclosure Foundation	8.00 CY	953.42 /CY	7,627
				03.18 Cast-In-Place Concrete, Slabs on Grade	85.00 CY	1,011.82 /CY	86,004
				03.0 Concrete Work	85.00 CY	1,011.82 /CY	86,004
	05.0			Metals			
		05.10		Structural Steel			
			34.10.STEEL	Substation Steel Supports	1.00 LS	2,129,954.84 /LS	2,129,955
				05.10 Structural Steel	1.00 LS	2,129,954.84 /LS	2,129,955
				05.0 Metals	1.00 LS	2,129,954.84 /LS	2,129,955
	13.0			Special Construction			
		13.01		Buildings Complete			
			26.00.HOUSE	Substation Control House	1.00 LS	3,997,762.67 /LS	3,997,763
				13.01 Buildings Complete	1.00 LS	3,997,762.67 /LS	3,997,763
				13.0 Special Construction	1.00 LS	3,997,762.67 /LS	3,997,763
	26.0			Electrical Work			
		26.15		Process Electrical			
			26.10.CABLE	Substation Cabling	0.00	/LS	103,431
			26.10.COND.UG	Conduit and Raceways - Underground	520.00 LF	1,701.35 /LF	884,700
			26.10.GRID	Substation Ground Grid	1.00 LS	660,296.55 /LS	660,297
				26.15 Process Electrical	1.00 LS	1,648,427.51 /LS	1,648,428
		26.20		Facility Electrical			
			26.10.LTG	Substation Lighting	1.00 LS	290,963.34 /LS	290,963
				26.20 Facility Electrical	1.00 LS	290,963.34 /LS	290,963
		26.25		Electrical Equipment			
			34.10.SUBEQ	Substation Equipment	1.00 LS	4,413,920.99 /LS	4,413,921
				26.25 Electrical Equipment	1.00 LS	4,413,920.99 /LS	4,413,921
				26.0 Electrical Work	1.00 LS	6,353,311.84 /LS	6,353,312
	31.0			Earthwork			
		31.17		Piling and Caissons			
			31.TYPE.A	Substation Equipment Foundation 30"Rx54" Type A - D3/6001	24.00 EA	1,577.53 /EA	37,861
			31.TYPE.B	Substation Equipment Foundation 36"Rx54" Type B - A3/6001	10.00 EA	1,791.62 /EA	17,916
			31.TYPE.C	Substation Equipment Foundation 60"Rx168" Type C - A5/6001	4.00 EA	10,107.56 /EA	40,430
			31.TYPE.D	Substation Equipment Foundation 36"Rx72" Type D - C8/6001	5.00 EA	1,688.22 /EA	8,441
				31.17 Piling and Caissons	231.50 LF	452.04 /LF	104,648
				31.0 Earthwork	148.89 CY	702.88 /CY	104,648
	32.0			Exterior Improvements			
		32.12		Paving			
			32.00.006	Substation Gravel Surfacing	22,222.22 SY	35.03 /SY	778,522
				32.12 Paving	22,222.22 SY	35.03 /SY	778,522
		32.31		Fencing			
			32.00.004	Substation Fencing	1,800.00 LF	58.18 /LF	104,718
				32.31 Fencing	1,800.00 LF	58.18 /LF	104,718
				32.0 Exterior Improvements	1.00 LS	883,240.44 /LS	883,240
				09.1 TRR Switchyard	**1.00 LS**	**17,481,786.44 /LS**	**17,481,786**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	11,646,545		71,291.066	
Material	24,748,544			
Subcontractor				
Equipment	3,124,255		31,860.166	
Other				
Subtotal w/ Prime Markups	**39,519,344**	**39,519,344**		
Contractor Contingency	1,975,967			5.000 %
Design Contingency	7,113,482			18.000 %
Opinion of Probable Construction Costs	**9,089,449**	**48,608,793**		

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Detail Report
Project Name: TRR Substation & Switchyard
Project Number: D3380602
Design Stage: 30% Design

Estimator: Jones T
Rev No. / Data: R03 - 04/28/2025
Class Estimate: 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
00.0					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	99.47 /ea	9,947
					01.01.05.00 General Conditions, Other	*24.00* MO			7,500				312.50 /MO	7,500	414.47 /MO	9,947
					01.I5.000 General Conditions, Other	*1.00* LS			7,500				7,500.00 /LS	7,500	9,947.33 /LS	9,947
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Manager	12.00 mo	1,920	299,520	-	-	-	-	24,960.00 /mo	299,520	31,295.09 /mo	375,541
					Superintendent	24.00 MO	3,840	460,800	-	-	-	-	19,200.00 /MO	460,800	24,073.15 /MO	577,756
					Field Engineer	24.00 mo	3,840	364,800	-	-	-	-	15,200.00 /mo	364,800	19,057.91 /mo	457,390
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	30,091.43 /mo	361,097
					Site Skilled Labor	24.00 mo	3,840	422,400	-	-	-	-	17,600.00 /mo	422,400	22,067.05 /mo	529,609
					01.01.06.01 GC Labor	24.00 MO	15,360	1,835,520					76,480.00 /MO	1,835,520	95,891.36 /MO	2,301,393
					01.I5.005 GC Labor	*1.00* LS	15,360	1,835,520					1,835,520.00 /LS	1,835,520	2,301,392.73 /LS	2,301,393
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,978.94 /ea	3,979
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	663.15 /mo	15,916
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,263.09 /ea	13,263
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	663.16 /mo	15,916
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,191.12 /mo	28,587
					Field Office Demob	1.00 ea	60	6,464	-		-	-	6,464.04 /ea	6,464	8,104.68 /ea	8,105
					Field Office Tear Down	1.00 ea	120	12,928	-		-	-	12,928.08 /ea	12,928	16,209.35 /ea	16,209
					Field Office Set-up	1.00 ea	180	19,392	-		10,800	-	30,192.12 /ea	30,192	37,855.17 /ea	37,855
					Field Office Mob	1.00 ea	60	6,464	-	0	-	-	6,464.04 /ea	6,464	8,104.68 /ea	8,105
					Field Office Trailer Rent (60 x 12) (2)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,321.04 /mo	111,410
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,027.89 /ea	2,056
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	994.73 /mo	47,747
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,326.32 /ea	1,326
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	72,947.03 /ea	72,947
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,894.65 /ea	19,895
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	86,210.12 /ea	86,210
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	192.32 /mo	4,616
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,894.64 /ea	19,895
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,287.88 /mo	54,909
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	464.21 /mo	11,141
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,779.98 /mo	90,720
					01.01.06.00 Project Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	670,805.27 /LS	670,805
					01.I5.010 Jobsite Office	*1.00* LS	420	45,248	431,230		33,600		510,078.28 /LS	510,078	670,805.27 /LS	670,805
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.94 /sy	71,530
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.94 /sy	4,471
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.94 /sy	8,941
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.74 /lf	23,578
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,914.07 /ea	11,828
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,862.81 /ea	9,726
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	5,039.98 /MO	120,959
					Guard Shack - Rent	24.00 mo		-	28,800	-	-	-	1,200.00 /mo	28,800	1,591.57 /mo	38,198
					Site Security Services	24.00 mo		269,880	-		-	-	11,245.00 /mo	269,880	14,099.09 /mo	338,378
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	477.47 /ea	47,747
					01.01.06.02 GC Temporary Facilities & Services	*12.00* MO	517	328,939	185,400		13,584		43,993.56 /MO	527,923	56,279.67 /MO	675,356
					01.I5.011 Temporary Facilities	*1.00* LS	517	328,939	185,400		13,584		527,922.69 /LS	527,923	675,356.06 /LS	675,356
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	60,000	-	-	-	2,500.00 /MO	60,000	3,315.77 /MO	79,579
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,631.56 /ls	6,632
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	473.68 /mo	11,368
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,578.88 /ls	16,579
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,089.68 /mo	50,152
					Hand Washing Station (2)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	212.21 /mo	10,186
					Portable Toilets (2)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	497.37 /mo	23,874
					Janitorial Service (2)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	630.00 /mo	30,240
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO		40,000	134,551				7,272.98 /MO	174,551	9,525.39 /MO	228,609
					01.I5.012 Temporary Services	*1.00* LS		40,000	134,551				174,551.45 /LS	174,551	228,609.29 /LS	228,609
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	36.00 mo		-	116,910	-	-		3,247.50 /mo	116,910	4,307.19 /mo	155,059
					Construction Delivery - Air Fare (mgmt 1 flight per month)	36.00 ea		-	13,500	-	-	0	375.00 /ea	13,500	497.37 /ea	17,905
					Business travel - Air Fare	36.00 ea		-	19,800	-	-	0	550.00 /ea	19,800	729.47 /ea	26,261
					Business travel - Hotel	180.00 day		-	24,300	-	-	0	135.00 /day	24,300	179.05 /day	32,229
					Business travel - Rental Car	180.00 day		-	13,500	-	-	0	75.00 /day	13,500	99.47 /day	17,905
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	36.00 mo		-	162,000	-	-		4,500.00 /mo	162,000	5,968.39 /mo	214,862
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,968.39 /MO	143,241
					Personnel moving expense for 4 GC Management Staff	3.00 EA		-	16,500	-	-		5,500.00 /EA	16,500	7,294.71 /EA	21,884
					Personnel moving expense for 8 specialty workers	6.00 EA		-	30,000	-	-		5,000.00 /EA	30,000	6,631.55 /EA	39,789
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			504,510				21,021.25 /MO	504,510	27,880.69 /MO	669,137
					01.I5.013 Travel	*1.00* LS			504,510				504,510.00 /LS	504,510	669,136.50 /LS	669,137
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	208	18,776	-	-	-	-	180.54 /wk	18,776	226.36 /wk	23,541

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,591.57 /MO	38,198
					Dumpster Pulls	24.00 ea		-	18,600	-	-	-	775.00 /ea	18,600	1,027.89 /ea	24,669
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	38,297.07 /ls	38,297
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	808	46,676	49,900				4,023.99 /MO	96,576	5,196.06 /MO	124,705
					01.I5.014 Site Cleanup	***1.00*** **LS**	**808**	**46,676**	**49,900**				**96,575.74 /LS**	**96,576**	**124,705.35 /LS**	**124,705**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,315.48 /ls	66,315
					First Aid Consumables	24.00 MO		-	12,000	-	-	-	500.00 /MO	12,000	663.15 /MO	15,916
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO			62,000				2,583.33 /MO	62,000	3,426.30 /MO	82,231
					01.I5.014A Site Safety	***1.00*** **LS**			**62,000**				**62,000.00 /LS**	**62,000**	**82,231.19 /LS**	**82,231**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,018.09 /mo	36,651
					Yard Pickup Truck (4)	36.00 mo		-	-	-	29,232	-	812.00 /mo	29,232	1,018.09 /mo	36,651
					Site Storage Connex boxes	2.00 ea		-	1,500	-	-	-	750.00 /ea	1,500	994.73 /ea	1,989
					Small Tools (~0.5% Labor)	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	66,315.49 /ls	66,315
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	331.58 /MO	7,958
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	132.63 /mo	3,183
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,621.01 /ea	8,621
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** LS			66,400		58,464		124,864.00 /LS	124,864	161,369.69 /LS	161,370
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**66,400**		**58,464**		**124,864.00 /LS**	**124,864**	**161,369.69 /LS**	**161,370**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,605.40 /ea	16,605
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	364.74 /ea	7,295
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	464.21 /MO	11,141
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	33,157.73 /ea	33,158
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,534.66 /day	191,833
					01.01.06.04 GC Indirect Services & Support	24.00 MO	1,000	95,000	51,420		58,000		8,517.50 /MO	204,420	10,834.66 /MO	260,032
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**95,000**	**51,420**		**58,000**		**204,420.00 /LS**	**204,420**	**260,031.72 /LS**	**260,032**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	24,992.13 /MO	599,811
					01-01-06-01 GC Labor	24.00 MO	4,160	478,391					19,932.95 /MO	478,391	24,992.13 /MO	599,811
					01.I6.000 Quality Control	***1.00*** **LS**	**4,160**	**478,391**					**478,390.80 /LS**	**478,391**	**599,811.02 /LS**	**599,811**
					01.01 Construction Operations	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	240,974.84 /MO	5,783,396
					01.0 General Requirements	***24.00*** MO	22,265	2,869,773	1,492,911		163,648		188,597.21 /MO	4,526,333	240,974.84 /MO	5,783,396
					00.0 General Conditions	***1.00*** **LS**	**22,265**	**2,869,773**	**1,492,911**		**163,648**		**4,526,332.96 /LS**	**4,526,333**	**5,783,396.15 /LS**	**5,783,396**
09.0					**TRR 230KV Substation**											
	01.0				General Requirements											
		01.01			Construction Operations											
			34.90.CX		**ENGINEERING, STARTUP, COMMISSIONING**											
				33.71.91.01	Power Substation											
					Testing	240.00 hrs	240	28,548		-	-	-	118.95 /hrs	28,548	149.14 /hrs	35,794
					Startup, Commissioning, Training, Documentation, Warranty	240.00 hrs	240	28,548		-	-	-	118.95 /hrs	28,548	149.14 /hrs	35,794
					Power Engineering, Seismic Engineering	800.00 hrs	800	176,000	20,000	-	-	-	245.00 /hrs	196,000	309.00 /hrs	247,197
					Protective Device Coordination Stidy	800.00 hrs	800	176,000	20,000	-	-	-	245.00 /hrs	196,000	309.00 /hrs	247,197
					33.71.91.01 Power Substation	***1.00*** LS	2,080	409,096	40,000				449,096.00 /LS	449,096	565,980.91 /LS	565,981
					34.90.CX ENGINEERING, STARTUP, COMMISSIONING	***1.00*** **LS**	**2,080**	**409,096**	**40,000**				**449,096.00 /LS**	**449,096**	**565,980.91 /LS**	**565,981**
			34.95.CONEQ		**CONSTRUCTION EQUIPMENT**											
				33.71.91.01	Power Substation											
					Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	66.00 week	2,640	326,119	-	-	226,626	-	8,374.92 /week	552,745	10,500.56 /week	693,037
					Crane crew, daily use for small jobs, 25-ton truck-mounted hydraulic crane, portal to portal	150.00 day	1,200	156,270	-	-	347,812	-	3,360.54 /day	504,082	4,213.48 /day	632,022
					Crane crew, daily use for small jobs, 100-ton truck-mounted hydraulic crane, portal to portal	45.00 day	720	88,515	-	-	101,927	-	4,232.05 /day	190,442	5,306.18 /day	238,778
					Rent crawler mounted, lattice boom crane, 165 ton, 60' boom	20.00 day		-	-	-	52,980	-	2,649.00 /day	52,980	3,321.34 /day	66,427
					Mobilization or demobilization, delivery charge for equipment, on flatbed trailer behind pickup truck	2.00 ea	4	395	-	-	175	-	284.83 /ea	570	357.12 /ea	714
					Mobilization or demobilization, crane, truck-mounted, up to 75 ton, (driver only, one-way)	2.00 ea	2	289	-	-	-	-	144.70 /ea	289	181.42 /ea	363
					Mobilization or demobilization, crane, truck-mounted, over 75 ton	2.00 ea	13	1,468	-	-	156	-	812.35 /ea	1,625	1,018.53 /ea	2,037
					Mobilization or demobilization, crane, crawler-mounted, over 75 ton	2.00 ea	21	2,447	-	-	1,552	-	1,999.59 /ea	3,999	2,507.11 /ea	5,014
					33.71.91.01 Power Substation	***1.00*** LS	4,600	575,504			731,227		1,306,731.38 /LS	1,306,731	1,638,392.47 /LS	1,638,392
					34.95.CONEQ CONSTRUCTION EQUIPMENT	***1.00*** **LS**	**4,600**	**575,504**			**731,227**		**1,306,731.38 /LS**	**1,306,731**	**1,638,392.47 /LS**	**1,638,392**
					01.01 Construction Operations	***12.00*** MO	6,680	984,600	40,000		731,227		146,318.95 /MO	1,755,827	183,697.78 /MO	2,204,373
					01.0 General Requirements	***12.00*** MO	6,680	984,600	40,000		731,227		146,318.95 /MO	1,755,827	183,697.78 /MO	2,204,373
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.10.CTRLFND		**Control Station Foundation**											
				03.10.05.12	Cast-In-Place Concrete, Slabs on Grade, 12" thick											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	7.10 cy		-	305	-	-	-	43.00 /cy	305	65.63 /cy	466
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	14.20 cy		-	419	-	-	-	29.50 /cy	419	45.03 /cy	639
					Underslab vapor barrier, visqueen membrane to 6 mil	1,150.00 sf	2	271	64	-	-	-	0.29 /sf	335	0.43 /sf	492
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.30 ton	37	4,306	3,450	-	-	-	3,372.03 /ton	7,756	5,011.04 /ton	11,525
					Reinforcing in place, unloading & sorting, add to above - slabs	2.30 ton	1	154	-	-	53	-	89.94 /ton	207	130.76 /ton	301
					Reinforcing in place, crane cost for handling, add to above, slabs	2.30 ton	1	167	-	-	58	-	97.77 /ton	225	142.14 /ton	327
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	44.72 CY		-	9,839	-	-	-	220.00 /CY	9,839	335.79 /CY	15,017
					Structural concrete, placing, foundation mat, direct chute, over 20 C.Y., includes strike off & consolidation, excludes material	44.72 cy	6	562	-	-	7	-	12.73 /cy	570	18.51 /cy	828

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.05.12	**Cast-In-Place Concrete, Slabs on Grade, 12" thick**											
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	1,150.00 sf	16	1,468	-	-	59	-	1.33 /sf	1,527	1.93 /sf	2,220
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	1,150.00 sf	5	442	288	-	-	-	0.63 /sf	730	0.94 /sf	1,082
					Curing, sprayed membrane curing compound	11.50 csf	2	176	184	-	-	-	31.33 /csf	360	46.70 /csf	537
					Fine grading, fine grade for slab on grade, machine	127.78 sy	2	212	-	-	137	-	2.73 /sy	349	3.97 /sy	507
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	**44.72 CY**	**73**	**7,758**	**14,549**		**314**		**505.81 /CY**	**22,621**	**758.93 /CY**	**33,941**
					03.10.CTRLFND Control Station Foundation	**44.72 CY**	**73**	**7,758**	**14,549**		**314**		**505.81 /CY**	**22,621**	**758.93 /CY**	**33,941**
			03.10.XFMRPAD		**Substation Transformer Foundations**											
				03.10.05.12	**Cast-In-Place Concrete, Slabs on Grade, 12" thick**											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	15.49 cy		-	666	-	-	-	43.00 /cy	666	65.63 /cy	1,017
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	30.98 cy		-	914	-	-	-	29.50 /cy	914	45.03 /cy	1,395
					Underslab vapor barrier, visqueen membrane to 6 mil	2,509.00 sf	5	590	141	-	-	-	0.29 /sf	731	0.43 /sf	1,073
					C.I.P. concrete forms, slab on grade, curb, wood, 6" to 12" high, 2 use, includes erecting, bracing, stripping and cleaning	864.00 sfca	111	11,552	1,806	-	-	-	15.46 /sfca	13,358	22.63 /sfca	19,551
					C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning	297.00 lf	16	1,655	247	-	-	-	6.40 /lf	1,901	9.37 /lf	2,782
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	6.27 ton	100	11,743	9,410	-	-	-	3,372.03 /ton	21,153	5,011.04 /ton	31,434
					Reinforcing in place, A615 Gr 60, slab on grade, #3 to #7	2.31 lb	0	2	2	-	-	-	1.52 /lb	4	2.27 /lb	5
					Reinforcing in place, unloading & sorting, add to above - slabs	8.58 ton	5	573	-	-	199	-	89.94 /ton	772	130.76 /ton	1,122
					Reinforcing in place, crane cost for handling, add to above, slabs	8.58 ton	5	623	-	-	216	-	97.76 /ton	839	142.13 /ton	1,220
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	218.91 CY		-	48,159	-	-	-	220.00 /CY	48,159	335.79 /CY	73,506
					Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes strike off & consolidation, excludes material	218.91 cy	64	5,837	-	-	76	-	27.01 /cy	5,913	39.27 /cy	8,597
					Concrete finishing, floors, basic finishing for unspecified flatwork, bull float only, excludes placing, striking off & consolidating	2,509.00 sf	15	1,373	-	-	-	-	0.55 /sf	1,373	0.80 /sf	1,997
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	2,509.00 sf	11	965	627	-	-	-	0.63 /sf	1,592	0.94 /sf	2,360
					Curing, sprayed membrane curing compound	25.09 csf	4	385	401	-	-	-	31.33 /csf	786	46.70 /csf	1,172
					Fine grading, fine grade for slab on grade, machine	278.78 sy	4	463	-	-	298	-	2.73 /sy	762	3.97 /sy	1,107
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	**218.91 CY**	**340**	**35,762**	**62,372**		**790**		**451.90 /CY**	**98,923**	**677.63 /CY**	**148,338**
					03.10.XFMRPAD Substation Transformer Foundations	**218.91 CY**	**340**	**35,762**	**62,372**		**790**		**451.90 /CY**	**98,923**	**677.63 /CY**	**148,338**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**263.63 CY**	**413**	**43,520**	**76,921**		**1,104**		**461.04 /CY**	**121,544**	**691.42 /CY**	**182,279**
					03.0 Concrete Work	**263.63 CY**	**413**	**43,520**	**76,921**		**1,104**		**461.04 /CY**	**121,544**	**691.42 /CY**	**182,279**
	05.0				**Metals**											
		05.10			**Structural Steel**											
			34.10.STEEL		**Substation Steel Supports**											
				33.71.91.01	**Power Substation**											
					Welding structural steel, 4 passes, 0.7 Lb/LF, 1/2" thick, continuous fillet, type 6011	100.00 lf	36	4,644	280	-	682	-	56.07 /lf	5,607	81.71 /lf	8,171
					Structural steel project, fossil fuel power station, 100-ton project, A992 steel, shop fabricated, incl shop primer, bolted connections, maximum	65.00 ton	1,460	181,795	320,125	-	36,912	-	8,289.73 /ton	538,832	12,408.75 /ton	806,569
					Column base plates, structural, light, 100-ton project, up to 150 lb each, A992 steel, shop fabricated, incl shop primer	25,980.00 lb	208	25,776	47,024	-	-	-	2.80 /lb	72,800	4.21 /lb	109,246
					33.71.91.01 Power Substation	***1.00* LS**	**1,704**	**212,215**	**367,429**		**37,594**		**617,238.45 /LS**	**617,238**	**923,985.83 /LS**	**923,986**
					34.10.STEEL Substation Steel Supports	***1.00* LS**	**1,704**	**212,215**	**367,429**		**37,594**		**617,238.45 /LS**	**617,238**	**923,985.83 /LS**	**923,986**
					05.10 Structural Steel	***1.00* LS**	**1,704**	**212,215**	**367,429**		**37,594**		**617,238.45 /LS**	**617,238**	**923,985.83 /LS**	**923,986**
					05.0 Metals	***1.00* LS**	**1,704**	**212,215**	**367,429**		**37,594**		**617,238.45 /LS**	**617,238**	**923,985.83 /LS**	**923,986**
	13.0				**Special Construction**											
		13.01			**Buildings Complete**											
			26.00.HOUSE		**Substation Control House**											
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Control House	1.00 ea	1,200	125,180	1,800,000	-	-	-	1,925,180.40 /ea	1,925,180	2,929,345.90 /ea	2,929,346
					26.25.03.00 Electrical Equipment, Switchgear - General	**0.00**	**1,200**	**125,180**	**1,800,000**				**/LS**	**1,925,180**	**/LS**	**2,929,346**
					26.00.HOUSE Substation Control House	***1.00* LS**	**1,200**	**125,180**	**1,800,000**				**1,925,180.40 /LS**	**1,925,180**	**2,929,345.90 /LS**	**2,929,346**
					13.01 Buildings Complete	***1.00* LS**	**1,200**	**125,180**	**1,800,000**				**1,925,180.40 /LS**	**1,925,180**	**2,929,345.90 /LS**	**2,929,346**
					13.0 Special Construction	***1.00* LS**	**1,200**	**125,180**	**1,800,000**				**1,925,180.40 /LS**	**1,925,180**	**2,929,345.90 /LS**	**2,929,346**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.10.CABLE		**Substation Cabling**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Tray cable, type TC, copper, 600 V, #12-4 conductor	50.00 clf	61	6,322	6,400	-	-	-	254.44 /clf	12,722	328.31 /clf	16,415
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 3 conductor	50.00 clf	67	6,954	1,025	-	-	-	159.59 /clf	7,979	201.58 /clf	10,079
					Innerduct	35.00 clf	35	3,651	788	-	-	-	126.82 /clf	4,439	160.64 /clf	5,622
					FO cable	30.00 clf	30	3,130	1,005	-	-	-	137.82 /clf	4,135	175.22 /clf	5,257
					Unshielded twisted pair (UTP) cable, stranded, PVC jacket, #24, 4 pair, category 6	50.00 clf	57	5,961	1,225	-	-	-	143.72 /clf	7,186	181.97 /clf	9,099
					Coaxial cable, 75 ohm, RG A/U #59 cable	25.00 clf	25	2,608	800	-	-	-	136.32 /clf	3,408	173.24 /clf	4,331
					26.15.01.00 Process Electrical, Wire/Cable	***1.00* LS**	**274**	**28,626**	**11,243**				**39,868.72 /LS**	**39,869**	**50,802.87 /LS**	**50,803**
					26.10.CABLE Substation Cabling	***1.00* LS**	**274**	**28,626**	**11,243**				**39,868.72 /LS**	**39,869**	**50,802.87 /LS**	**50,803**
			26.10.COND.UG		**Conduit and Raceways - Underground**											
				26.10.03.00	**UG Conduit**											
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 3" diameter, schedule 40, installed by direct burial in slab or duct bank	2,500.00 LF	167	17,386	18,000	-	-	-	14.15 /LF	35,386	18.27 /LF	45,673
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 6" diameter, schedule 40, installed by direct burial in slab or duct bank	10,000.00 LF	1,778	185,452	179,500	-	-	-	36.50 /LF	364,952	47.06 /LF	470,595
					Electrical Underground Ducts and Manholes, PVC, elbows, 3" diameter, schedule 40, installed by direct burial in slab or duct bank	176.00 ea	117	12,240	2,385	-	-	-	83.09 /ea	14,625	105.17 /ea	18,509
					Electrical Underground Ducts and Manholes, PVC, bell end and cap, 3" diameter, schedule 40, installed by direct burial in slab or duct bank	80.00 ea	32	3,338	1,108	-	-	-	55.58 /ea	4,446	70.69 /ea	5,655
					Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	5,000.00 lf	40	4,173	800	-	-	-	0.99 /lf	4,973	1.26 /lf	6,293
					26.10.03.00 UG Conduit	**12,500.00 LF**	**2,134**	**222,589**	**201,793**				**33.95 /LF**	**424,382**	**43.74 /LF**	**546,724**
				26.25.01.00	**Cable Trench**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.25.01.00	**Cable Trench**											
					Parking barriers, wheel stops, thermoplastic, 6" x 10" x 6'-0"	6.00 ea	2	183	321	-	-	-	84.08 /ea	504	109.29 /ea	656
					Cable Trench 3x2 end plate	2.00 ea	4	428	500	-	119	-	523.42 /ea	1,047	674.40 /ea	1,349
					Cable Trench 3x2x10' section with lid	12.00 LF	17	1,797	2,765	-	714	-	439.65 /LF	5,276	567.94 /LF	6,815
					26.25.01.00 Cable Trench	**12.00 LF**	**23**	**2,408**	**3,586**		**833**		**568.93 /LF**	**6,827**	**734.99 /LF**	**8,820**
				31.20.07.10	**Earthworks, Sitework, Excavating**											
					Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	100.00 CY	16	1,728	-	-	189	-	19.17 /CY	1,917	24.03 /CY	2,403
					Excavating, trench or continuous footing, common earth, 5/8 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	983.11 CY	63	6,960	-	-	3,262	-	10.40 /CY	10,221	13.04 /CY	12,816
					Excavating, bulk bank measure, 2-1/4 C.Y. capacity = 100 C.Y./hour, wheel mounted, excluding truck loading	1,637.00 CY	33	3,722	-	-	1,375	-	3.11 /CY	5,097	3.90 /CY	6,391
					31.20.07.10 Earthworks, Sitework, Excavating	**2,720.11 CY**	**112**	**12,410**			**4,826**		**6.34 /CY**	**17,235**	**7.94 /CY**	**21,610**
				31.20.07.15	**Earthworks, Sitework, Backfill**											
					Reinforcing Steel, in place, beams and girders, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	17.21 ton	275	32,218	25,815	-	-	-	3,372.03 /ton	58,033	4,336.64 /ton	74,634
					Borrow, common earth, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel-mounted	1,932.00 bcy	48	5,491	55,062	-	925	-	31.82 /bcy	61,478	41.96 /bcy	81,074
					Bedding, crushed stone 3/4" to 1/2"	134.69 lcy	22	2,195	5,186	-	254	-	56.68 /lcy	7,634	73.86 /lcy	9,948
					Concrete (red) envelope/encasement, poured neat	688.11 cy	447	40,997	89,454	-	494	-	190.30 /cy	130,946	248.02 /cy	170,666
					End bulkheads, plywood, concrete envelope/encasement	400.00 sf	48	5,002	292	-	-	-	13.23 /sf	5,294	16.65 /sf	6,658
					Plywood side forms, concrete envelope/encasement	10,400.00 sfca	416	43,455	24,336	-	-	-	6.52 /sfca	67,791	8.34 /sfca	86,762
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	788.11 CY	81	8,017	7,881	-	7,365	-	29.52 /CY	23,263	37.73 /CY	29,739
					Load excavated spoils	788.11 cy	10	1,120		-	993	-	2.68 /cy	2,113	3.36 /cy	2,650
					Compaction, 3 passes, 6" lifts, towed vibrating roller	1,932.00 bcy	58	6,589	-	-	2,344	-	4.62 /bcy	8,934	5.80 /bcy	11,201
					31.20.07.15 Earthworks, Sitework, Backfill	**788.11 CY**	**1,405**	**145,084**	**208,026**		**12,376**		**463.75 /CY**	**365,486**	**600.59 /CY**	**473,332**
					26.10.COND.UG Conduit and Raceways - Underground	**12,512.00 LF**	**3,673**	**382,491**	**413,405**		**18,035**		**65.05 /LF**	**813,931**	**83.96 /LF**	**1,050,486**
			26.10.GRID		**Substation Ground Grid**											
				26.15.11.00	**Process Electrical, Grounding**											
					Compression Connector/Splice	340.00 ea	136	14,187	12,580	-	-	-	78.73 /ea	26,767	101.39 /ea	34,473
					Grounding rod, copper clad, 15' long, 3/4" diameter	40.00 ea	80	8,345	4,080	-	-	-	310.63 /ea	12,425	396.87 /ea	15,875
					Ground wire, copper wire, bare stranded, #4	1.50 clf	2	156	239	-	-	-	263.32 /clf	395	341.69 /clf	513
					Ground wire, copper wire, bare stranded, 1/0	2.00 clf	4	417	660	-	-	-	538.64 /clf	1,077	699.27 /clf	1,399
					Ground wire, copper wire, bare stranded, 250 kcmil	40.00 clf	133	13,909	32,600	-	-	-	1,162.72 /clf	46,509	1,516.92 /clf	60,677
					Ground wire, aluminum wire, bare stranded, #4	5.00 clf	5	522	168	-	-	-	137.82 /clf	689	175.23 /clf	876
					Exothermic weld	200.00 ea	200	20,863	922	-	-	-	108.93 /ea	21,785	136.91 /ea	27,382
					Exothermic weld, mold reusable for above	40.00 ea		-	6,640	-	-	-	166.00 /ea	6,640	220.17 /ea	8,807
					Gate Grounding Detail D1/5001	2.00 ea	6	626	400	-	-	-	512.96 /ea	1,026	657.66 /ea	1,315
					Fence Grounding Detail C7/5001	70.00 ea	140	14,604	14,000	-	-	-	408.63 /ea	28,604	526.85 /ea	36,879
					Switch Operator Platform 3x4	2.00 ea	2	209	600	-	-	-	404.32 /ea	809	528.68 /ea	1,057
					26.15.11.00 Process Electrical, Grounding	**48.50 clf**	**708**	**73,839**	**72,888**				**3,025.30 /clf**	**146,727**	**3,902.11 /clf**	**189,252**
					26.10.GRID Substation Ground Grid	***1.00* LS**	**708**	**73,839**	**72,888**				**146,727.06 /LS**	**146,727**	**189,252.18 /LS**	**189,252**
					26.15 Process Electrical	***1.00* LS**	**4,655**	**484,956**	**497,535**		**18,035**		**1,000,526.39 /LS**	**1,000,526**	**1,290,540.96 /LS**	**1,290,541**
		26.20			**Facility Electrical**											
			26.10.LTG		**Substation Lighting**											
				26.15.07.00	**Lighting**											
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	64.00 clf	51	5,341	2,880	-	-	-	128.45 /clf	8,221	164.32 /clf	10,516
					Grouding of pole	5.00 ea	3	261	90	-	-	-	70.16 /ea	351	89.27 /ea	446
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	800.00 lf	80	8,345	3,872	-	-	-	15.27 /lf	12,217	19.50 /lf	15,599
					Type S Fixture	8.00 EA	16	1,669	12,000	-	-	-	1,708.63 /EA	13,669	2,251.05 /EA	18,008
					Type B Fixture	13.00 EA	26	2,712	19,500	-	-	-	1,708.63 /EA	22,212	2,251.05 /EA	29,264
					Type E fixture	8.00 EA	16	1,669	12,000	-	-	-	1,708.63 /EA	13,669	2,251.05 /EA	18,008
					Light poles w/ anchor base, aluminum, to 30' high	5.00 ea	40	4,473	12,500	-	984	-	3,591.39 /ea	17,957	4,684.17 /ea	23,421
					Avg cost, concrete pole base, max. 6'0" buried, 2'0" exposed, 18" dia.	5.00 ea	20	2,086	4,750	-	-	-	1,367.27 /ea	6,836	1,783.17 /ea	8,916
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 1" diameter, schedule 40, installed by direct burial in slab or duct bank	800.00 lf	25	2,568	1,464	-	-	-	5.04 /lf	4,032	6.45 /lf	5,161
					26.15.07.00 Lighting	**29.00 EA**	**276**	**29,125**	**69,056**		**984**		**3,419.47 /EA**	**99,165**	**4,460.01 /EA**	**129,340**
					26.10.LTG Substation Lighting	***1.00* LS**	**276**	**29,125**	**69,056**		**984**		**99,164.64 /LS**	**99,165**	**129,340.15 /LS**	**129,340**
					26.20 Facility Electrical	***1.00* LS**	**276**	**29,125**	**69,056**		**984**		**99,164.64 /LS**	**99,165**	**129,340.15 /LS**	**129,340**
		26.25			**Electrical Equipment**											
			34.10.SUBEQ		**Substation Equipment**											
				33.71.91.01	**Power Substation**											
					AAC 397.5kcmil CANNA 555	300.00 lf	21	2,191	600	-	-	-	9.30 /lf	2,791	11.81 /lf	3,542
					AAC 2500kcmil LUPINE 3524	2,000.00 lf	200	20,863	22,000	-	-	-	21.43 /lf	42,863	27.67 /lf	55,338
					Transformer, dry-type, nonventilated, single phase 480 V primary 120/240 V secondary, 75 kVA	1.00 ea	27	2,782	17,600	-	-	-	20,381.79 /ea	20,382	26,830.88 /ea	26,831
					Power Transformer, 75/100/125MVA 230kV-13.8kV	2.00 ea	1,200	142,740	5,500,000	-	-	-	2,821,370.00 /ea	5,642,740	3,736,836.01 /ea	7,473,672
					Air Disconnect Switch 3000A 3ph 230kV	2.00 ea	80	9,516	70,000	-	-	-	39,758.00 /ea	79,516	52,386.46 /ea	104,773
					Post Insulator 900kV BIL	12.00 ea	96	11,419	60,000	-	-	-	5,951.60 /ea	71,419	7,824.68 /ea	93,896
					Post Insulator 200kV BIL	72.00 ea	576	68,515	360,000	-	-	-	5,951.60 /ea	428,515	7,824.67 /ea	563,377
					N3R 400A FU DS	2.00 ea	24	2,855	2,400	-	-	-	2,627.40 /ea	5,255	3,381.26 /ea	6,763
					FO Splice Enclosure	1.00 ea	4	476	1,200	-	-	-	1,675.80 /ea	1,676	2,188.13 /ea	2,188
					Bus 6" (6.5# per lf)	400.00 lb	160	16,691	4,800	-	0	-	53.73 /lb	21,491	68.23 /lb	27,293
					33.71.91.01 Power Substation	***1.00* LS**	**2,388**	**278,048**	**6,038,600**				**6,316,647.57 /LS**	**6,316,648**	**8,357,672.36 /LS**	**8,357,672**
					34.10.SUBEQ Substation Equipment	***1.00* LS**	**2,388**	**278,048**	**6,038,600**				**6,316,647.57 /LS**	**6,316,648**	**8,357,672.36 /LS**	**8,357,672**
					26.25 Electrical Equipment	***1.00* LS**	**2,388**	**278,048**	**6,038,600**				**6,316,647.57 /LS**	**6,316,648**	**8,357,672.36 /LS**	**8,357,672**
					26.0 Electrical Work	***1.00* LS**	**7,319**	**792,128**	**6,605,191**		**19,019**		**7,416,338.60 /LS**	**7,416,339**	**9,777,553.47 /LS**	**9,777,553**
	31.0				**Earthwork**											
		31.17			**Piling and Caissons**											
			31.TYPE.A		**Substation Equipment Foundation 30"Rx54" Type A - D3/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	15.05 cy		-	2,258	-	-	-	150.00 /cy	2,258	228.95 /cy	3,447

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.17.02.00	Earthworks, Caissons											
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	15.07 CY	2	153	151	-	141	-	29.52 /CY	445	43.64 /CY	658
					Load excavated spoils	15.07 cy	0	21		-	19	-	2.68 /cy	40	3.90 /cy	59
					Mobilization for rig	18.00 EA	36	4,417	-	-	106	-	251.24 /EA	4,522	365.26 /EA	6,575
					Fixd end cssn pils,open styl stbl grnd,50'd,30"dm,0.182 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	82.80 LF	83	8,466	2,857	-	482	-	142.57 /LF	11,805	209.77 /LF	17,369
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	405.72 lb		-	507	-	-	-	1.25 /lb	507	1.91 /lb	774
					31.17.02.00 Earthworks, Caissons	82.80 LF	121	13,058	5,773		748		236.45 /LF	19,578	348.80 /LF	28,881
					31.TYPE.A Substation Equipment Foundation 30"Rx54" Type A - D3/6001	18.00 EA	121	13,058	5,773		748		1,087.66 /EA	19,578	1,604.50 /EA	28,881
			31.TYPE.B		Substation Equipment Foundation 36"Rx54" Type B - A3/6001											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	4.71 cy		-	707	-	-	-	150.00 /cy	707	228.94 /cy	1,079
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	3.28 CY	0	33	33	-	31	-	29.52 /CY	97	43.64 /CY	143
					Load excavated spoils	3.28 cy	0	5		-	4	-	2.68 /cy	9	3.90 /cy	13
					Mobilization for rig	4.00 EA	8	981	-	-	23	-	251.24 /EA	1,005	365.26 /EA	1,461
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	18.00 LF	18	1,841	891	-	126	-	158.74 /LF	2,857	234.36 /LF	4,219
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	132.30 lb		-	165	-	-	-	1.25 /lb	165	1.91 /lb	252
					31.17.02.00 Earthworks, Caissons	18.00 LF	26	2,860	1,796		184		268.90 /LF	4,840	398.16 /LF	7,167
					31.TYPE.B Substation Equipment Foundation 36"Rx54" Type B - A3/6001	4.00 EA	26	2,860	1,796		184		1,210.04 /EA	4,840	1,791.72 /EA	7,167
			31.TYPE.C		Substation Equipment Foundation 60"Rx168" Type C - A5/6001											
				31.17.02.00	Earthworks, Caissons											
					Drilled caisson, concrete	30.54 cy		-	4,581	-	-	-	150.00 /cy	4,581	228.95 /cy	6,993
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	30.53 CY	3	311	305	-	285	-	29.52 /CY	901	43.64 /CY	1,332
					Load excavated spoils	30.53 cy	0	43	0	-	38	-	2.68 /cy	82	3.90 /cy	119
					Mobilization for rig, average cost per vlf, add	3.00 EA	6	736	-	-	18	-	251.24 /EA	754	365.26 /EA	1,096
					Fixd end cssn pils,open styl stbl grnd,50'd,60"dm,0.727 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	42.00 LF	42	4,295	5,796	-	408	-	249.95 /LF	10,498	373.39 /LF	15,682
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	2,673.30 lb		-	3,342	-	-	-	1.25 /lb	3,342	1.91 /lb	5,100
					31.17.02.00 Earthworks, Caissons	42.00 LF	52	5,385	14,024		749		479.95 /LF	20,158	721.97 /LF	30,323
					31.TYPE.C Substation Equipment Foundation 60"Rx168" Type C - A5/6001	3.00 EA	52	5,385	14,024		749		6,719.31 /EA	20,158	10,107.52 /EA	30,323
					31.17 Piling and Caissons	142.80 LF	198	21,302	21,593		1,681		312.16 /LF	44,576	464.78 /LF	66,370
					31.0 Earthwork	48.88 CY	198	21,302	21,593		1,681		911.95 /CY	44,576	1,357.83 /CY	66,370
	32.0				Exterior Improvements											
		32.12			Paving											
			32.00.006		Substation Gravel Surfacing											
				31.15.01.00	Site Preparation, Clearing and Grubbing											
					Clear and Grubbing Project Site	3,333.33 sy	20	2,169		-	1,291	-	1.04 /sy	3,459	1.51 /sy	5,029
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	47.00 CY	5	478	470	-	439	-	29.52 /CY	1,387	43.64 /CY	2,051
					Load excavated spoils	47.00 cy	1	67		-	59	-	2.68 /cy	126	3.90 /cy	183
					Erosion Controls Allowance	1.00 ls	72	7,332	1,500	-	848	-	9,680.70 /ls	9,681	14,182.64 /ls	14,183
					31.15.01.00 Site Preparation, Clearing and Grubbing	47.00 CY	97	10,046	1,970		2,637		311.78 /CY	14,653	456.30 /CY	21,446
				32.40.04.00	Site Improvements, Access Roads, Gravel											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	3,333.33 SY	27	2,880	-	-	1,855	-	1.42 /SY	4,735	2.07 /SY	6,884
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	1,010.00 cy	20	2,329	-	-	3,808	-	6.08 /cy	6,137	8.83 /cy	8,922
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	1,010.00 cy	104	10,274	-	-	9,439	-	19.52 /cy	19,713	28.38 /cy	28,659
					Load excavated spoils	1,010.00 cy	9	1,076		-	955	-	2.01 /cy	2,031	2.92 /cy	2,953
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,6"deep	3,333.33 sy	40	4,326	24,333	-	3,063	-	9.52 /sy	31,722	14.36 /sy	47,881
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	3,333.33 sy	23	2,599	-	-	1,575	-	1.25 /sy	4,173	1.82 /sy	6,067
					32.40.04.00 Site Improvements, Access Roads, Gravel	3,333.33 SY	222	23,484	24,333		20,694		20.55 /SY	68,512	30.41 /SY	101,367
					32.00.006 Substation Gravel Surfacing	3,333.33 SY	320	33,530	26,303		23,331		24.95 /SY	83,165	36.84 /SY	122,813
					32.12 Paving	3,333.33 SY	320	33,530	26,303		23,331		24.95 /SY	83,165	36.84 /SY	122,813
		32.31			Fencing											
			32.00.004		Substation Fencing											
				32.45.01.00	Fencing, Chain Link											
					Fence Security Signage	20.00 ea	20	1,872	700	-	-	-	128.58 /ea	2,572	189.47 /ea	3,789
					Fence,chain link industrial,galvanized steel,3 strands barb wire,2"posts @ 10'oc,9ga wire,6'high,schedule 40,includes excavation,& concrete	700.00 LF	70	6,551	13,965	-	1,232	-	31.07 /LF	21,748	46.61 /LF	32,630
					Fence, chain link industrial, gate, galvanized steel, 4' wide, 5' high, 2" frame, includes excavation, in concrete	1.00 ea	2	225	229	-	42	-	495.84 /ea	496	737.47 /ea	737
					Fence, chain link industrial, double swing gates, 8' high, 20' opening, includes excavation, posts & hardware in concrete	2.00 opng	44	4,501	1,720	-	767	-	3,494.01 /opng	6,988	5,141.98 /opng	10,284
					32.45.01.00 Fencing, Chain Link	700.00 LF	137	13,148	16,614		2,041		45.43 /LF	31,803	67.77 /LF	47,441
					32.00.004 Substation Fencing	700.00 LF	137	13,148	16,614		2,041		45.43 /LF	31,803	67.77 /LF	47,441
					32.31 Fencing	700.00 LF	137	13,148	16,614		2,041		45.43 /LF	31,803	67.77 /LF	47,441
					32.0 Exterior Improvements	*1.00* LS	456	46,679	42,917		25,373		114,968.57 /LS	114,969	170,253.93 /LS	170,254
					09.0 TRR 230KV Substation	***1.00*** **LS**	**17,971**	**2,225,625**	**8,954,051**		**815,998**		**11,995,673.44 /LS**	**11,995,673**	**16,254,161.65 /LS**	**16,254,162**
09.1					**TRR Switchyard**											
	01.0				General Requirements											
		01.01			Construction Operations											
			34.90.CX		ENGINEERING, STARTUP, COMMISSIONING											
				33.71.91.01	Power Substation											
					Power Engineering, Seismic Engineering	2,000.00 hrs	2,000	440,000	50,000	-	-	-	245.00 /hrs	490,000	309.00 /hrs	617,992
					Protective Device Coordination Stidy	2,000.00 hrs	2,000	440,000	50,000	-	-	-	245.00 /hrs	490,000	309.00 /hrs	617,992
					Startup, Commissioning, Training, Documentation, Warranty	400.00 hrs	400	47,580		-	-	-	118.95 /hrs	47,580	149.14 /hrs	59,656
					Testing	400.00 hrs	400	47,580		-	-	-	118.95 /hrs	47,580	149.14 /hrs	59,656

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					33.71.91.01 Power Substation	***1.00*** **LS**	**4,800**	**975,160**	**100,000**				**1,075,160.00 /LS**	**1,075,160**	**1,355,296.01 /LS**	**1,355,296**
					34.90.CX ENGINEERING, STARTUP, COMMISSIONING	***1.00*** **LS**	**4,800**	**975,160**	**100,000**				**1,075,160.00 /LS**	**1,075,160**	**1,355,296.01 /LS**	**1,355,296**
			34.95.CONEQ		**CONSTRUCTION EQUIPMENT**											
				33.71.91.01	**Power Substation**											
					Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	104.00 week	4,160	513,885	-	-	357,107	-	8,374.92 /week	870,992	10,500.56 /week	1,092,058
					Crane crew, daily use for small jobs, 25-ton truck-mounted hydraulic crane, portal to portal	250.00 day	2,000	260,450	-	-	579,686	-	3,360.54 /day	840,136	4,213.48 /day	1,053,371
					Crane crew, daily use for small jobs, 100-ton truck-mounted hydraulic crane, portal to portal	60.00 day	960	118,020	-	-	135,902	-	4,232.05 /day	253,923	5,306.18 /day	318,371
					Rent crawler mounted, lattice boom crane, 165 ton, 60' boom	30.00 day		-	-	-	79,470	-	2,649.00 /day	79,470	3,321.34 /day	99,640
					Mobilization or demobilization, delivery charge for equipment, on flatbed trailer behind pickup truck	2.00 ea	4	395	-	-	175	-	284.83 /ea	570	357.12 /ea	714
					Mobilization or demobilization, crane, truck-mounted, up to 75 ton, (driver only, one-way)	2.00 ea	2	289	-	-	-	-	144.70 /ea	289	181.42 /ea	363
					Mobilization or demobilization, crane, truck-mounted, over 75 ton	2.00 ea	13	1,468	-	-	156	-	812.35 /ea	1,625	1,018.53 /ea	2,037
					Mobilization or demobilization, crane, crawler-mounted, over 75 ton	2.00 ea	21	2,447	-	-	1,552	-	1,999.59 /ea	3,999	2,507.10 /ea	5,014
					33.71.91.01 Power Substation	***1.00*** **LS**	**7,160**	**896,955**			**1,154,049**		**2,051,003.46 /LS**	**2,051,003**	**2,571,567.99 /LS**	**2,571,568**
					34.95.CONEQ CONSTRUCTION EQUIPMENT	***1.00*** **LS**	**7,160**	**896,955**			**1,154,049**		**2,051,003.46 /LS**	**2,051,003**	**2,571,567.99 /LS**	**2,571,568**
					01.01 Construction Operations	***12.00*** **MO**	**11,960**	**1,872,115**	**100,000**		**1,154,049**		**260,513.62 /MO**	**3,126,163**	**327,238.67 /MO**	**3,926,864**
					01.0 General Requirements	***12.00*** **MO**	**11,960**	**1,872,115**	**100,000**		**1,154,049**		**260,513.62 /MO**	**3,126,163**	**327,238.67 /MO**	**3,926,864**
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			03.10.CTRLFND		**Control Station Foundation**											
				03.10.02.12	**Cast-In-Place Concrete, Continuous Footings, 12" thick**											
					C.I.P. concrete forms, footing, continuous wall, dowel supports, 1 use, more than 20' below grade, includes erecting, bracing, stripping and cleaning	178.00 lf	11	1,190	449	-	-	-	9.21 /lf	1,639	13.57 /lf	2,415
					C.I.P. concrete forms, footing, keyway, tapered wood, 2" x 4", 4 use, includes erecting, bracing, stripping and cleaning	178.00 lf	3	293	109	-	-	-	2.25 /lf	401	3.32 /lf	591
					Reinforcing Steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.75 ton	28	3,276	2,625	-	-	-	3,372.03 /ton	5,901	5,011.05 /ton	8,769
					Reinforcing steel, unload and sort, add to base	1.75 ton	1	117	-	-	41	-	89.94 /ton	157	130.76 /ton	229
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	21.00 cy		-	4,620	-	-	-	220.00 /cy	4,620	335.79 /cy	7,052
					Structural concrete, placing, continuous footing, deep, pumped, includes strike off & consolidation, excludes material	20.00 CY	8	766	-	-	113	-	43.93 /CY	879	63.87 /CY	1,277
					03.10.02.12 Cast-In-Place Concrete, Continuous Footings, 12" thick	**20.00 CY**	**51**	**5,642**	**7,802**		**153**		**679.85 /CY**	**13,597**	**1,016.66 /CY**	**20,333**
				03.10.02.83	**Cast-In-Place Concrete, Stem Walls, 12" Thick**											
					C.I.P. concrete forms, wall, job built, plywood, 8 to 16' high, 3 use, includes erecting, bracing, stripping and cleaning	534.00 sfca	68	7,284	1,121	-	-	-	15.74 /sfca	8,405	23.04 /sfca	12,301
					Form oil, coverage varies greatly, maximum, includes material only	1.42 gal		-	39	-	-	-	27.50 /gal	39	41.98 /gal	60
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.00 ton	16	1,872	1,500	-	-	-	3,372.03 /ton	3,372	5,011.03 /ton	5,011
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	1.00 ton	1	67	-	-	23	-	89.95 /ton	90	130.77 /ton	131
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	11.00 cy		-	2,420	-	-	-	220.00 /cy	2,420	335.79 /cy	3,694
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	10.00 CY	5	511	-	-	75	-	58.58 /CY	586	85.16 /CY	852
					Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	534.00 sf	9	867	16	-	-	-	1.65 /sf	883	2.41 /sf	1,285
					03.10.02.83 Cast-In-Place Concrete, Stem Walls, 12" Thick	**10.00 CY**	**100**	**10,600**	**5,097**		**98**		**1,579.53 /CY**	**15,795**	**2,333.28 /CY**	**23,333**
				03.10.05.12	**Cast-In-Place Concrete, Slabs on Grade, 12" thick**											
					Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only	7.10 cy		-	305	-	-	-	43.00 /cy	305	65.63 /cy	466
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	14.20 cy		-	419	-	-	-	29.50 /cy	419	45.03 /cy	639
					Underslab vapor barrier, visqueen membrane to 6 mil	1,150.00 sf	2	271	64	-	-	-	0.29 /sf	335	0.43 /sf	492
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.30 ton	37	4,306	3,450	-	-	-	3,372.03 /ton	7,756	5,011.04 /ton	11,525
					Reinforcing in place, unloading & sorting, add to above - slabs	2.30 ton	1	154	-	-	53	-	89.94 /ton	207	130.77 /ton	301
					Reinforcing in place, crane cost for handling, add to above, slabs	2.30 ton	1	167	-	-	58	-	97.77 /ton	225	142.13 /ton	327
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	47.00 CY		-	10,340	-	-	-	220.00 /CY	10,340	335.79 /CY	15,782
					Structural concrete, placing, foundation mat, direct chute, over 20 C.Y., includes strike off & consolidation, excludes material	45.00 cy	6	566	-	-	7	-	12.73 /cy	573	18.51 /cy	833
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	1,150.00 sf	16	1,468	-	-	59	-	1.33 /sf	1,527	1.93 /sf	2,220
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	1,150.00 sf	5	442	288	-	-	-	0.63 /sf	730	0.94 /sf	1,082
					Curing, sprayed membrane curing compound	11.50 csf	2	176	184	-	-	-	31.33 /csf	360	46.70 /csf	537
					Fine grading, fine grade for slab on grade, machine	127.78 sy	2	212	-	-	137	-	2.73 /sy	349	3.97 /sy	508
					03.10.05.12 Cast-In-Place Concrete, Slabs on Grade, 12" thick	**47.00 CY**	**73**	**7,761**	**15,050**		**314**		**492.03 /CY**	**23,125**	**738.53 /CY**	**34,711**
					03.10.CTRLFND Control Station Foundation	**77.00 CY**	**224**	**24,003**	**27,949**		**566**		**682.05 /CY**	**52,518**	**1,017.88 /CY**	**78,377**
			03.10.MTRFND		**Meter Enclosure Foundation**											
				03.10.05.24	**Cast-In-Place Concrete, Slabs on Grade, 24" thick**											
					Aggregate, stone, 3/4" to 1-1/2", prices per C.Y., includes material only	4.00 cy		-	118	-	-	-	29.50 /cy	118	45.03 /cy	180
					Underslab vapor barrier, visqueen membrane to 6 mil	100.00 sf	0	24	6	-	-	-	0.29 /sf	29	0.43 /sf	43
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	0.75 ton	12	1,404	1,125	-	-	-	3,372.03 /ton	2,529	5,011.03 /ton	3,758
					Reinforcing in place, unloading & sorting, add to above - slabs	0.75 ton	0	50	-	-	17	-	89.95 /ton	67	130.76 /ton	98
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	9.00 cy		-	1,980	-	-	-	220.00 /cy	1,980	335.79 /cy	3,022
					Structural concrete, placing, foundation mat, direct chute, over 20 C.Y., includes strike off & consolidation, excludes material	8.00 CY	1	101	-	-	1	-	12.74 /CY	102	18.51 /CY	148
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	100.00 sf	1	128	-	-	5	-	1.33 /sf	133	1.93 /sf	193
					Concrete finishing, floor, dustproofing, solvent-based, 1 coat	100.00 sf	0	38	25	-	-	-	0.63 /sf	63	0.94 /sf	94
					Curing, sprayed membrane curing compound	1.00 csf	0	15	16	-	-	-	31.33 /csf	31	46.72 /csf	47
					Fine grading, fine grade for slab on grade, machine	11.11 sy	0	18	-	-	12	-	2.73 /sy	30	3.97 /sy	44
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	**8.00 CY**	**16**	**1,778**	**3,270**		**36**		**635.42 /CY**	**5,083**	**953.42 /CY**	**7,627**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.10.MTRFND Meter Enclosure Foundation	**8.00 CY**	**16**	**1,778**	**3,270**		**36**		**635.42 /CY**	**5,083**	**953.42 /CY**	**7,627**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**85.00 CY**	**240**	**25,782**	**31,218**		**601**		**677.66 /CY**	**57,601**	**1,011.82 /CY**	**86,004**
					03.0 Concrete Work	**85.00 CY**	**240**	**25,782**	**31,218**		**601**		**677.66 /CY**	**57,601**	**1,011.82 /CY**	**86,004**
	05.0				**Metals**											
		05.10			**Structural Steel**											
			34.10.STEEL		**Substation Steel Supports**											
				33.71.91.01	**Power Substation**											
					Welding structural steel, 4 passes, 0.7 Lb/LF, 1/2" thick, continuous fillet, type 6011	200.00 lf	73	9,289	560	-	1,364	-	56.07 /lf	11,213	81.71 /lf	16,342
					Structural steel project, fossil fuel power station, 100-ton project, A992 steel, shop fabricated, incl shop primer, bolted connections, maximum	150.00 ton	3,368	419,527	738,750	-	85,182	-	8,289.73 /ton	1,243,459	12,408.75 /ton	1,861,312
					Column base plates, structural, light, 100-ton project, up to 150 lb each, A992 steel, shop fabricated, incl shop primer	60,000.00 lb	480	59,529	108,600	-	-	-	2.80 /lb	168,129	4.21 /lb	252,301
					33.71.91.01 Power Substation	***1.00* LS**	**3,921**	**488,344**	**847,910**		**86,546**		**1,422,800.66 /LS**	**1,422,801**	**2,129,954.84 /LS**	**2,129,955**
					34.10.STEEL Substation Steel Supports	***1.00* LS**	**3,921**	**488,344**	**847,910**		**86,546**		**1,422,800.66 /LS**	**1,422,801**	**2,129,954.84 /LS**	**2,129,955**
					05.10 Structural Steel	***1.00* LS**	**3,921**	**488,344**	**847,910**		**86,546**		**1,422,800.66 /LS**	**1,422,801**	**2,129,954.84 /LS**	**2,129,955**
					05.0 Metals	***1.00* LS**	**3,921**	**488,344**	**847,910**		**86,546**		**1,422,800.66 /LS**	**1,422,801**	**2,129,954.84 /LS**	**2,129,955**
	13.0				**Special Construction**											
		13.01			**Buildings Complete**											
			26.00.HOUSE		**Substation Control House**											
				26.25.03.00	**Electrical Equipment, Switchgear - General**											
					Control House	1.00 EA	1,200	125,180	2,500,000	-	-	-	2,625,180.40 /EA	2,625,180	3,997,762.67 /EA	3,997,763
					26.25.03.00 Electrical Equipment, Switchgear - General	**0.00**	**1,200**	**125,180**	**2,500,000**				**/LS**	**2,625,180**	**/LS**	**3,997,763**
					26.00.HOUSE Substation Control House	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,997,762.67 /LS**	**3,997,763**
					13.01 Buildings Complete	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,997,762.67 /LS**	**3,997,763**
					13.0 Special Construction	***1.00* LS**	**1,200**	**125,180**	**2,500,000**				**2,625,180.40 /LS**	**2,625,180**	**3,997,762.67 /LS**	**3,997,763**
	26.0				**Electrical Work**											
		26.15			**Process Electrical**											
			26.10.CABLE		**Substation Cabling**											
				26.15.01.00	**Process Electrical, Wire/Cable**											
					Tray cable, type TC, copper, 600 V, #12-4 conductor	100.00 clf	121	12,644	12,800	-	-	-	254.44 /clf	25,444	328.31 /clf	32,831
					Cable, copper braided shield, PVC jacket, 300 V, #18 stranded, 3 conductor	100.00 clf	133	13,909	2,050	-	-	-	159.59 /clf	15,959	201.58 /clf	20,158
					Innerduct	65.00 clf	65	6,781	1,463	-	-	-	126.82 /clf	8,243	160.64 /clf	10,441
					FO cable	75.00 clf	75	7,824	2,513	-	-	-	137.82 /clf	10,336	175.23 /clf	13,142
					Unshielded twisted pair (UTP) cable, stranded, PVC jacket, #24, 4 pair, category 6	100.00 clf	114	11,922	2,450	-	-	-	143.72 /clf	14,372	181.97 /clf	18,197
					Coaxial cable, 75 ohm, RG A/U #59 cable	50.00 clf	50	5,216	1,600	-	-	-	136.32 /clf	6,816	173.24 /clf	8,662
					26.15.01.00 Process Electrical, Wire/Cable	**0.00**	**559**	**58,296**	**22,875**				**/LS**	**81,171**	**/LS**	**103,431**
					26.10.CABLE Substation Cabling	**0.00**	**559**	**58,296**	**22,875**				**/LS**	**81,171**	**/LS**	**103,431**
			26.10.COND.UG		**Conduit and Raceways - Underground**											
				26.25.01.00	**Cable Trench**											
					Parking barriers, wheel stops, thermoplastic, 6" x 10" x 6'-0"	160.00 ea	53	4,892	8,560	-	-	-	84.07 /ea	13,452	109.29 /ea	17,487
					Cable Trench 3x2 end plate	4.00 ea	8	856	1,000	-	238	-	523.42 /ea	2,094	674.39 /ea	2,698
					Cable Trench 3x2x10' section with lid	520.00 LF	728	77,855	119,808	-	30,955	-	439.65 /LF	228,619	567.94 /LF	295,330
					26.25.01.00 Cable Trench	**520.00 LF**	**789**	**83,603**	**129,368**		**31,194**		**469.55 /LF**	**244,164**	**606.76 /LF**	**315,515**
				31.20.07.10	**Earthworks, Sitework, Excavating**											
					Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	115.00 CY	18	1,987	-	-	217	-	19.17 /CY	2,204	24.03 /CY	2,764
					Excavating, trench or continuous footing, common earth, 5/8 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	1,130.58 CY	72	8,003	-	-	3,751	-	10.40 /CY	11,755	13.04 /CY	14,738
					Excavating, bulk bank measure, 2-1/4 C.Y. capacity = 100 C.Y./hour, wheel mounted, excluding truck loading	1,882.55 CY	38	4,280	-	-	1,581	-	3.11 /CY	5,862	3.90 /CY	7,350
					31.20.07.10 Earthworks, Sitework, Excavating	**3,128.13 CY**	**128**	**14,271**			**5,549**		**6.34 /CY**	**19,821**	**7.94 /CY**	**24,851**
				31.20.07.15	**Earthworks, Sitework, Backfill**											
					Reinforcing Steel, in place, beams and girders, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	19.79 ton	317	37,051	29,688	-	-	-	3,372.03 /ton	66,739	4,336.64 /ton	85,831
					Borrow, common earth, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel-mounted	2,221.80 CY	56	6,315	63,321	-	1,064	-	31.82 /CY	70,700	41.96 /CY	93,235
					Bedding, crushed stone 3/4" to 1/2"	154.89 lcy	25	2,524	5,963	-	292	-	56.68 /lcy	8,779	73.86 /lcy	11,440
					Concrete (red) envelope/encasement, poured neat	791.33 cy	514	47,147	102,873	-	568	-	190.30 /cy	150,588	248.02 /cy	196,267
					End bulkheads, plywood, concrete envelope/encasement	460.00 sf	55	5,752	336	-	-	-	13.23 /sf	6,088	16.65 /sf	7,657
					Plywood side forms, concrete envelope/encasement	11,960.00 sfca	478	49,974	27,986	-	-	-	6.52 /sfca	77,960	8.34 /sfca	99,776
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	906.33 cy	93	9,219	9,063	-	8,470	-	29.52 /cy	26,753	37.73 /cy	34,200
					Load excavated spoils	906.33 cy	11	1,288		-	1,142	-	2.68 /cy	2,430	3.36 /cy	3,047
					Compaction, 3 passes, 6" lifts, towed vibrating roller	2,221.80 bcy	67	7,578	-	-	2,696	-	4.62 /bcy	10,274	5.80 /bcy	12,881
					31.20.07.15 Earthworks, Sitework, Backfill	**2,221.80 CY**	**1,616**	**166,848**	**239,231**		**14,233**		**189.18 /CY**	**420,311**	**245.00 /CY**	**544,334**
					26.10.COND.UG Conduit and Raceways - Underground	**520.00 LF**	**2,534**	**264,722**	**368,599**		**50,975**		**1,315.95 /LF**	**684,296**	**1,701.35 /LF**	**884,700**
			26.10.GRID		**Substation Ground Grid**											
				26.15.11.00	**Process Electrical, Grounding**											
					Grounding rod, copper clad, 8' long, 5/8" diameter	100.00 ea	145	15,173	2,200	-	-	-	173.73 /ea	17,373	219.42 /ea	21,942
					Compression Connector/Splice	890.00 ea	356	37,137	32,930	-	-	-	78.73 /ea	70,067	101.39 /ea	90,238
					Grounding rod, copper clad, 15' long, 3/4" diameter	100.00 ea	200	20,863	10,200	-	-	-	310.63 /ea	31,063	396.87 /ea	39,687
					Ground wire, copper wire, bare stranded, #4	11.00 clf	11	1,147	1,749	-	-	-	263.32 /clf	2,896	341.68 /clf	3,758
					Ground wire, copper wire, bare stranded, 1/0	2.00 clf	4	417	660	-	-	-	538.64 /clf	1,077	699.27 /clf	1,399
					Ground wire, copper wire, bare stranded, 250 kcmil	175.00 clf	583	60,852	142,625	-	-	-	1,162.72 /clf	203,477	1,516.92 /clf	265,461
					Ground wire, aluminum wire, bare stranded, #4	10.00 clf	10	1,043	335	-	-	-	137.82 /clf	1,378	175.22 /clf	1,752
					Exothermic weld	650.00 ea	650	67,806	2,997	-	-	-	108.93 /ea	70,803	136.91 /ea	88,990
					Exothermic weld, mold reusable for above	100.00 ea		-	16,600	-	-	-	166.00 /ea	16,600	220.17 /ea	22,017
					Fence Grounding Detail C7/5001	100.00 ea	200	20,863	20,000	-	-	-	408.63 /ea	40,863	526.85 /ea	52,685
					Gate Grounding Detail D1/5001	2.00 ea	6	626	400	-	-	-	512.96 /ea	1,026	657.64 /ea	1,315
					Post Grounding Detail D4/5001	100.00 ea	300	31,295	20,000	-	-	-	512.95 /ea	51,295	657.65 /ea	65,765
					Switch Operator Platform 3x4	10.00 ea	10	1,043	3,000	-	-	-	404.32 /ea	4,043	528.69 /ea	5,287
					26.15.11.00 Process Electrical, Grounding	**198.00 clf**	**2,476**	**258,267**	**253,696**				**2,585.67 /clf**	**511,963**	**3,334.83 /clf**	**660,297**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					26.10.GRID Substation Ground Grid	***1.00*** **LS**	**2,476**	**258,267**	**253,696**				**511,962.58 /LS**	**511,963**	**660,296.55 /LS**	**660,297**
					26.15 Process Electrical	***1.00*** **LS**	**5,568**	**581,284**	**645,169**		**50,975**		**1,277,428.91 /LS**	**1,277,429**	**1,648,427.51 /LS**	**1,648,428**
		26.20			**Facility Electrical**											
			26.10.LTG		**Substation Lighting**											
				26.15.07.00	**Lighting**											
					Wire, copper, stranded, 600 volt, #10, type XHHW, in raceway	151.25 clf	121	12,622	6,806	-	-	-	128.45 /clf	19,429	164.32 /clf	24,853
					Grouding of pole	7.00 ea	4	365	126	-	-	-	70.16 /ea	491	89.27 /ea	625
					Rigid galvanized steel conduit, 3/4" diameter, to 15' H, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	1,000.00 lf	100	10,432	4,840	-	-	-	15.27 /lf	15,272	19.50 /lf	19,499
					Type B Fixture	36.00 EA	72	7,511	54,000	-	-	-	1,708.63 /EA	61,511	2,251.05 /EA	81,038
					Type E fixture	6.00 EA	12	1,252	9,000	-	-	-	1,708.63 /EA	10,252	2,251.05 /EA	13,506
					Type S Fixture	40.00 EA	80	8,345	60,000	-	-	-	1,708.63 /EA	68,345	2,251.05 /EA	90,042
					Light poles w/ anchor base, aluminum, to 30' high	7.00 ea	56	6,262	17,500	-	1,378	-	3,591.39 /ea	25,140	4,684.17 /ea	32,789
					Avg cost, concrete pole base, max. 6'0" buried, 2'0" exposed, 18" dia.	7.00 ea	28	2,921	6,650	-	-	-	1,367.27 /ea	9,571	1,783.17 /ea	12,482
					Electrical Underground Ducts and Manholes, PVC, conduit with coupling, 1" diameter, schedule 40, installed by direct burial in slab or duct bank	2,500.00 lf	77	8,024	4,575	-	-	-	5.04 /lf	12,599	6.45 /lf	16,129
					26.15.07.00 Lighting	**82.00 EA**	**549**	**57,734**	**163,497**		**1,378**		**2,714.75 /EA**	**222,609**	**3,548.33 /EA**	**290,963**
					26.10.LTG Substation Lighting	***1.00*** **LS**	**549**	**57,734**	**163,497**		**1,378**		**222,609.38 /LS**	**222,609**	**290,963.34 /LS**	**290,963**
					26.20 Facility Electrical	***1.00*** **LS**	**549**	**57,734**	**163,497**		**1,378**		**222,609.38 /LS**	**222,609**	**290,963.34 /LS**	**290,963**
		26.25			**Electrical Equipment**											
			34.10.SUBEQ		**Substation Equipment**											
				33.71.91.01	**Power Substation**											
					AAC 1431kcmil CARNATION 1999	1,000.00 lf	90	9,389	3,250	-	-	-	12.64 /lf	12,639	16.08 /lf	16,082
					AAC 397.5kcmil CANNA 555	1,300.00 lf	91	9,493	2,600	-	-	-	9.30 /lf	12,093	11.81 /lf	15,351
					AAC 4/0 OXLIP 296	200.00 lf	12	1,252	300	-	-	-	7.76 /lf	1,552	9.84 /lf	1,967
					Air Disconnect Switch 3000A motorized 3ph 230kV	10.00 ea	400	47,580	500,000	-	-	-	54,758.00 /ea	547,580	72,281.11 /ea	722,811
					CVT 230kV	4.00 ea	64	7,613	300,000	-	-	-	76,903.20 /ea	307,613	101,859.48 /ea	407,438
					Eaton CA201001-EN 1ph 50kVA 95BIL 15kv/120-240 SSVT	6.00 ea	144	17,129	7,200	-	-	-	4,054.80 /ea	24,329	5,170.95 /ea	31,026
					LA 230kV	6.00 ea	96	11,419	450,000	-	-	-	76,903.20 /ea	461,419	101,859.48 /ea	611,157
					Metering Enclosure #1 Bally #102	1.00 ea	40	4,758	45,000	-	-	-	49,758.00 /ea	49,758	65,649.56 /ea	65,650
					MVCT 230kV	6.00 ea	96	11,419	450,000	-	-	-	76,903.20 /ea	461,419	101,859.48 /ea	611,157
					Post Insulator 900kV BIL	66.00 ea	528	62,806	330,000	-	-	-	5,951.60 /ea	392,806	7,824.67 /ea	516,428
					SF6 CB 3000A 230kV	3.00 ea	300	35,685	540,000	-	-	-	191,895.00 /ea	575,685	253,649.81 /ea	760,949
					SQD H326NR 600A FU DS	2.00 ea	24	2,855	2,400	-	-	-	2,627.40 /ea	5,255	3,381.26 /ea	6,763
					Swaged Bus Support PLK2230D	48.00 ea	192	22,838	12,000	-	-	-	725.80 /ea	34,838	928.14 /ea	44,551
					Swaged Tee 3 to (2)3" PLK1500D	12.00 ea	48	5,710	4,800	-	-	-	875.80 /ea	10,510	1,127.09 /ea	13,525
					Swaged Tee 4 to (2)3" PLK1600D	6.00 ea	24	2,855	2,400	-	-	-	875.80 /ea	5,255	1,127.09 /ea	6,763
					Swaged Tee 4 to 3" PLK1500D	12.00 ea	48	5,710	4,800	-	-	-	875.80 /ea	10,510	1,127.09 /ea	13,525
					Swaged Tee 4 to 4/0 CL430D64	12.00 ea	48	5,710	4,800	-	-	-	875.80 /ea	10,510	1,127.09 /ea	13,525
					Swaged Term Pad PLK1850D	30.00 ea	120	14,274	12,000	-	-	-	875.80 /ea	26,274	1,127.09 /ea	33,813
					Swaged XJ PLK2600D	30.00 ea	120	14,274	36,000	-	-	-	1,675.80 /ea	50,274	2,188.13 /ea	65,644
					Bus 3" (2.6# per lf)	390.00 lb	156	16,273	4,680	-		-	53.73 /lb	20,953	68.23 /lb	26,611
					Bus 4" (3.7# per lf)	6,290.00 lb	2,516	262,462	75,480	-		-	53.73 /lb	337,942	68.23 /lb	429,187
					33.71.91.01 Power Substation	***1.00*** **LS**	**5,157**	**571,502**	**2,787,710**				**3,359,211.60 /LS**	**3,359,212**	**4,413,920.99 /LS**	**4,413,921**
					34.10.SUBEQ Substation Equipment	***1.00*** **LS**	**5,157**	**571,502**	**2,787,710**				**3,359,211.60 /LS**	**3,359,212**	**4,413,920.99 /LS**	**4,413,921**
					26.25 Electrical Equipment	***1.00*** **LS**	**5,157**	**571,502**	**2,787,710**				**3,359,211.60 /LS**	**3,359,212**	**4,413,920.99 /LS**	**4,413,921**
					26.0 Electrical Work	***1.00*** **LS**	**11,275**	**1,210,520**	**3,596,376**		**52,353**		**4,859,249.89 /LS**	**4,859,250**	**6,353,311.84 /LS**	**6,353,312**
	31.0				**Earthwork**											
		31.17			**Piling and Caissons**											
			31.TYPE.A		**Substation Equipment Foundation 30"Rx54" Type A - D3/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	19.63 CY		-	2,945	-	-	-	150.00 /CY	2,945	228.95 /CY	4,495
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	19.66 CY	2	200	197	-	184	-	29.52 /CY	580	43.64 /CY	858
					Load excavated spoils	19.66 cy	0	28		-	25	-	2.68 /cy	53	3.90 /cy	77
					Mobilization for rig	24.00 EA	48	5,889	-	-	141	-	251.24 /EA	6,030	365.26 /EA	8,766
					Fixd end cssn pils,open styl stbl grnd,50'd,30"dm,0.182 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	108.00 LF	108	11,043	3,726	-	629	-	142.57 /LF	15,398	209.77 /LF	22,656
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	529.20 lb		-	662	-	-	-	1.25 /lb	662	1.91 /lb	1,010
					31.17.02.00 Earthworks, Caissons	**108.00 LF**	**158**	**17,160**	**7,529**		**978**		**237.66 /LF**	**25,667**	**350.56 /LF**	**37,861**
					31.TYPE.A Substation Equipment Foundation 30"Rx54" Type A - D3/6001	**24.00 EA**	**158**	**17,160**	**7,529**		**978**		**1,069.46 /EA**	**25,667**	**1,577.53 /EA**	**37,861**
			31.TYPE.B		**Substation Equipment Foundation 36"Rx54" Type B - A3/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	11.78 CY		-	1,767	-	-	-	150.00 /CY	1,767	228.95 /CY	2,697
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	8.19 CY	1	83	82	-	77	-	29.52 /CY	242	43.64 /CY	357
					Load excavated spoils	8.19 cy	0	12		-	10	-	2.68 /cy	22	3.90 /cy	32
					Mobilization for rig	10.00 EA	20	2,454	-	-	59	-	251.24 /EA	2,512	365.26 /EA	3,653
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	45.00 LF	45	4,601	2,228	-	314	-	158.74 /LF	7,143	234.36 /LF	10,546
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	330.75 lb		-	413	-	-	-	1.25 /lb	413	1.91 /lb	631
					31.17.02.00 Earthworks, Caissons	**45.00 LF**	**66**	**7,150**	**4,490**		**460**		**268.88 /LF**	**12,100**	**398.14 /LF**	**17,916**
					31.TYPE.B Substation Equipment Foundation 36"Rx54" Type B - A3/6001	**10.00 EA**	**66**	**7,150**	**4,490**		**460**		**1,209.97 /EA**	**12,100**	**1,791.62 /EA**	**17,916**
			31.TYPE.C		**Substation Equipment Foundation 60"Rx168" Type C - A5/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	40.72 CY		-	6,109	-	-	-	150.00 /CY	6,109	228.95 /CY	9,324
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	40.71 CY	4	414	407	-	380	-	29.52 /CY	1,202	43.64 /CY	1,777
					Load excavated spoils	40.71 cy	1	58		-	51	-	2.68 /cy	109	3.90 /cy	159
					Mobilization for rig, average cost per vlf, add	4.00 EA	8	981	-	-	23	-	251.24 /EA	1,005	365.26 /EA	1,461
					Fixd end cssn pils,open styl stbl grnd,50'd,60"dm,0.727 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	56.00 LF	56	5,726	7,728	-	543	-	249.95 /LF	13,997	373.39 /LF	20,910
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	3,564.40 lb		-	4,456	-	-	-	1.25 /lb	4,456	1.91 /lb	6,800

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					31.17.02.00 Earthworks, Caissons	**56.00 LF**	**69**	**7,179**	**18,699**		**999**		**479.95 /LF**	**26,877**	**721.97 /LF**	**40,430**
					31.TYPE.C Substation Equipment Foundation 60"Rx168" Type C - A5/6001	**4.00 EA**	**69**	**7,179**	**18,699**		**999**		**6,719.34 /EA**	**26,877**	**10,107.56 /EA**	**40,430**
			31.TYPE.D		**Substation Equipment Foundation 36"Rx72" Type D - C8/6001**											
				31.17.02.00	**Earthworks, Caissons**											
					Drilled caisson, concrete	4.09 CY		-	614	-	-	-	150.00 /CY	614	228.94 /CY	936
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	4.10 CY	0	42	41	-	38	-	29.52 /CY	121	43.64 /CY	179
					Load excavated spoils	4.10 cy	0	6	0	-	5	-	2.68 /cy	11	3.90 /cy	16
					Mobilization for rig	5.00 EA	10	1,227	-	-	29	-	251.24 /EA	1,256	365.26 /EA	1,826
					Fixd end cssn pils,open styl stbl grnd,50'd,36"dm,0.262 cy/lf, machn drlld,incld excvt,cncrt,50lb rnfr/, excld mblzt,bldr remvl,dspsl,csngs grnd water	22.50 LF	23	2,301	1,114	-	157	-	158.74 /LF	3,572	234.36 /LF	5,273
					Fixed end caisson piles, for other than 50 lb. reinforcing per C.Y., add or deduct	110.25 lb		-	138	-	-	-	1.25 /lb	138	1.91 /lb	210
					31.17.02.00 Earthworks, Caissons	**22.50 LF**	**33**	**3,575**	**1,906**		**230**		**253.83 /LF**	**5,711**	**375.16 /LF**	**8,441**
					31.TYPE.D Substation Equipment Foundation 36"Rx72" Type D - C8/6001	**5.00 EA**	**33**	**3,575**	**1,906**		**230**		**1,142.23 /EA**	**5,711**	**1,688.22 /EA**	**8,441**
					31.17 Piling and Caissons	**231.50 LF**	**326**	**35,064**	**32,624**		**2,667**		**303.91 /LF**	**70,355**	**452.04 /LF**	**104,648**
					31.0 Earthwork	**148.89 CY**	**326**	**35,064**	**32,624**		**2,667**		**472.54 /CY**	**70,355**	**702.88 /CY**	**104,648**
	32.0				**Exterior Improvements**											
		32.12			**Paving**											
			32.00.006		**Substation Gravel Surfacing**											
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Clear and Grubbing Project Site	22,222.22 sy	133	14,458		-	8,605	-	1.04 /sy	23,062	1.51 /sy	33,528
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	310.00 CY	32	3,153	3,100	-	2,897	-	29.52 /CY	9,151	43.64 /CY	13,528
					Load excavated spoils	310.00 cy	4	441		-	391	-	2.68 /cy	831	3.90 /cy	1,209
					Erosion Controls Allowance	1.00 ls	120	12,221	5,000	-	1,414	-	18,634.60 /ls	18,635	27,453.67 /ls	27,454
					31.15.01.00 Site Preparation, Clearing and Grubbing	**310.00 CY**	**289**	**30,273**	**8,100**		**13,306**		**166.71 /CY**	**51,679**	**244.25 /CY**	**75,719**
				32.40.04.00	**Site Improvements, Access Roads, Gravel**											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	22,222.22 SY	178	19,203	-	-	12,367	-	1.42 /SY	31,570	2.07 /SY	45,896
					Excavation, bulk, scrapers, bank measure, common earth, 3000' haul, 14 C.Y. bucket, self propelled scrapers, 1/4 push dozer	7,406.67 cy	148	17,081	-	-	27,924	-	6.08 /cy	45,005	8.83 /cy	65,429
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	7,406.67 cy	760	75,343	-	-	69,219	-	19.52 /cy	144,562	28.38 /cy	210,166
					Load excavated spoils	7,406.67 cy	69	7,894		-	7,002	-	2.01 /cy	14,897	2.92 /cy	21,657
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,6"deep	22,222.22 sy	263	28,838	162,222	-	20,418	-	9.52 /sy	211,478	14.36 /sy	319,210
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	22,222.22 sy	152	17,324	-	-	10,497	-	1.25 /sy	27,821	1.82 /sy	40,446
					32.40.04.00 Site Improvements, Access Roads, Gravel	**22,222.22 SY**	**1,571**	**165,682**	**162,222**		**147,428**		**21.39 /SY**	**475,332**	**31.63 /SY**	**702,804**
					32.00.006 Substation Gravel Surfacing	**22,222.22 SY**	**1,860**	**195,955**	**170,322**		**160,734**		**23.72 /SY**	**527,011**	**35.03 /SY**	**778,522**
					32.12 Paving	**22,222.22 SY**	**1,860**	**195,955**	**170,322**		**160,734**		**23.72 /SY**	**527,011**	**35.03 /SY**	**778,522**
		32.31			**Fencing**											
			32.00.004		**Substation Fencing**											
				32.45.01.00	**Fencing, Chain Link**											
					Fence Security Signage	40.00 ea	40	3,743	1,400		-	-	128.58 /ea	5,143	189.47 /ea	7,579
					Fence,chain link industrial,galvanized steel,3 strands barb wire,2"posts @ 10'oc,9ga wire,6'high,schedule 40,includes excavation,& concrete	1,800.00 LF	180	16,845	35,910	-	3,168	-	31.07 /LF	55,923	46.61 /LF	83,905
					Fence, chain link industrial, gate, galvanized steel, 4' wide, 5' high, 2" frame, includes excavation, in concrete	4.00 ea	10	898	916	-	169	-	495.85 /ea	1,983	737.47 /ea	2,950
					Fence, chain link industrial, double swing gates, 8' high, 20' opening, includes excavation, posts & hardware in concrete	2.00 opng	44	4,501	1,720	-	767	-	3,494.01 /opng	6,988	5,141.98 /opng	10,284
					32.45.01.00 Fencing, Chain Link	**1,800.00 LF**	**274**	**25,988**	**39,946**		**4,104**		**38.91 /LF**	**70,038**	**58.18 /LF**	**104,718**
					32.00.004 Substation Fencing	**1,800.00 LF**	**274**	**25,988**	**39,946**		**4,104**		**38.91 /LF**	**70,038**	**58.18 /LF**	**104,718**
					32.31 Fencing	**1,800.00 LF**	**274**	**25,988**	**39,946**		**4,104**		**38.91 /LF**	**70,038**	**58.18 /LF**	**104,718**
					32.0 Exterior Improvements	***1.00* LS**	**2,133**	**221,943**	**210,268**		**164,838**		**597,049.26 /LS**	**597,049**	**883,240.44 /LS**	**883,240**
					09.1 TRR Switchyard	***1.00* LS**	**31,055**	**3,978,948**	**7,318,397**		**1,461,055**		**12,758,399.95 /LS**	**12,758,400**	**17,481,786.44 /LS**	**17,481,786**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	9,074,347		71,291.066	
Material	17,765,359			
Subcontractor				
Equipment	2,440,701		31,860.166	
Other				
Subtotal Direct Costs	**29,280,407**	**29,280,407**		
Material Sales Tax, Dunnigan Ca	1,287,989			7.250 %
Subtotal w/ Tax	**1,287,989**	**30,568,396**		
Concrete Work OH&P	35,829			20.000 %
Architectural OH&P	1,318,080			20.000 %
Site/Civil OH&P	165,390			20.000 %
Subtotal w/ Sub Markups	**1,519,299**	**32,087,695**		
Mobilization/Demobilization	1,458,264			3.000 %
Prime Contractor Home OfficeOH	1,925,262			6.000 %
Prime Contractor Profit	3,208,769			10.000 %
Bonds/Insurance	839,356			2.170 %
Subtotal w/ Prime Markups	**7,431,651**	**39,519,346**		
Contractor Contingency	1,975,967			5.000 %
Design Contingency	7,113,482			18.000 %
Subtotal w/ Contingency	**9,089,449**	**48,608,795**		
Opinion of Probable Construction Costs		**48,608,795**		

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Appendix N
Package 11
Dunnigan Pipeline Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
5000	**General Conditions**	***1.00*** **LS**	**20,779,478.40 /LS**	**20,779,478**
5020	**Dunnigan Pipeline**	**19,040.00 LF**	**5,044.93 /LF**	**96,055,512**
5021	**Dunnigan Pipeline, Tunneling**	**800.00 LF**	**60,869.93 /LF**	**48,695,943**
5100	**Dunnigan - TCC Intake Structure**	**2,894.00 SF**	**978.37 /SF**	**2,831,411**
5200	**Dunnigan - CBD Discharge Structure**	**3,400.00 SF**	**2,810.14 /SF**	**9,554,489**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	57,044,382		419,497.278	
Material	82,670,117			
Subcontractor	7,059,602			
Equipment	31,142,732		176,255.640	
Other				
Subtotal w/ Prime Markups	**177,916,833**	**177,916,833**		
Contractor Contingency	5,337,505			3.000 %
Design Contingency	32,025,030			18.000 %
Opinion of Probable Construction Costs	**37,362,535**	**215,279,368**		

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Jacobs

Work Activity Summary Report

Project Name: Dunnigan Pipeline
Project Number: D3880600
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R03 - 04/28/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
5000				**General Conditions**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.I5.000	General Conditions, Other	1.00 LS	305,540.95 /LS	305,541
			01.I5.005	GC Labor	1.00 LS	7,535,751.26 /LS	7,535,751
			01.I5.010	Jobsite Office	1.00 LS	793,334.84 /LS	793,335
			01.I5.011	Temporary Facilities	1.00 LS	2,101,479.65 /LS	2,101,480
			01.I5.012	Temporary Services	1.00 LS	415,725.85 /LS	415,726
			01.I5.013	Travel	1.00 LS	1,861,066.46 /LS	1,861,066
			01.I5.014	Site Cleanup	1.00 LS	553,258.46 /LS	553,258
			01.I5.014A	Site Safety	1.00 LS	1,305,409.58 /LS	1,305,410
			01.I5.015	GC Equip, Tools, & Consumables	1.00 LS	1,744,728.12 /LS	1,744,728
			01.I5.016	Material Handling	1.00 LS	2,174,796.93 /LS	2,174,797
			01.I5.020	GC Indirect Services & Support	1.00 LS	567,960.67 /LS	567,961
			01.I6.000	Quality Control	1.00 LS	1,420,425.63 /LS	1,420,426
				01.01 Construction Operations	24.00 MO	865,811.60 /MO	20,779,478
				01.0 General Requirements	24.00 MO	865,811.60 /MO	20,779,478
				5000 General Conditions	**1.00 LS**	**20,779,478.40 /LS**	**20,779,478**
5020				**Dunnigan Pipeline**			
	32.0			Exterior Improvements			
		32.12		Paving			
			32.40.02.0010	Pavement Restoration	6,573.33 SY	70.96 /SY	466,426
				32.12 Paving	6,573.33 SY	70.96 /SY	466,426
				32.0 Exterior Improvements	1.00 LS	466,426.44 /LS	466,426
	33.0			Pipelines			
		33.03		Buried Process Pipe, Carbon Steel			
			33.00.05.10.5-1a	Dunnigan Pipeline, Single Pipe Trench, (3123-110)	19,040.00 LF	5,020.44 /LF	95,589,086
				33.03 Buried Process Pipe, Carbon Steel	19,040.00 LF	5,020.44 /LF	95,589,086
				33.0 Pipelines	19,040.00 LF	5,020.44 /LF	95,589,086
				5020 Dunnigan Pipeline	**19,040.00 LF**	**5,044.93 /LF**	**96,055,512**
5021				**Dunnigan Pipeline, Tunneling**			
	33.0			Pipelines			
		33.60		Trenchless Technology, Tunneling			
			33.00.102	Dunnigan Pipeline, Trenchless Pipe Installation, at I-5	438.00 LF	54,539.38 /LF	23,888,249
			33.00.104	Dunnigan Pipeline, Trenchless Pipe Installation, at Highway 99/Rail Road Crossing	362.00 LF	68,529.54 /LF	24,807,694
				33.60 Trenchless Technology, Tunneling	800.00 LF	60,869.93 /LF	48,695,943
				33.0 Pipelines	800.00 LF	60,869.93 /LF	48,695,943
				5021 Dunnigan Pipeline, Tunneling	**800.00 LF**	**60,869.93 /LF**	**48,695,943**
5100				**Dunnigan - TCC Intake Structure**			
	02.0			Existing Conditions			
		02.40		Demolition			
			02.00.100	Dunnigan - TCC Intake Structure, Partial Demolition of Existing Canal Lining	1,800.00 SF	14.61 /SF	26,298
				02.40 Demolition	1,800.00 SF	14.61 /SF	26,298
				02.0 Existing Conditions	1,800.00 SF	14.61 /SF	26,298
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.100	Dunnigan - TCC Intake Structure, Foundation Slab	332.00 CY	900.94 /CY	299,111
				03.18 Cast-In-Place Concrete, Slabs on Grade	332.00 CY	900.94 /CY	299,111
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.102	Dunnigan - TCC Intake Structure, Concrete Walls	346.00 CY	1,631.21 /CY	564,400
				03.20 Cast-In-Place Concrete, Straight Walls	346.00 CY	1,631.21 /CY	564,400
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.00.104	Dunnigan - TCC Intake Structure, Elevated Slab	20.00 CY	2,272.89 /CY	45,458
				03.24 Cast-In-Place Concrete, Elevated Slabs	20.00 CY	2,272.89 /CY	45,458
		03.60		Concrete Miscellaneous			
			03.00.206	Dunnigan - TCC Intake Structure, Slope Concrete Fill	64.00 CY	630.78 /CY	40,370
				03.60 Concrete Miscellaneous	64.00 CY	630.78 /CY	40,370
				03.0 Concrete Work	762.00 CY	1,245.85 /CY	949,339
	05.0			Metals			
		05.00		Metals			
			05.00.004	Dunnigan - TCC Intake Structure, Grating and Structural Supports	1,094.00 SF	131.07 /SF	143,390
			05.00.006	Dunnigan - TCC Intake Structure, Trash Racks	1.00 LS	163,787.67 /LS	163,788
			05.00.008	Dunnigan - TCC Intake Structure, Vehicle Guardrail	102.00 LF	489.11 /LF	49,889
			05.00.010	Dunnigan - TCC Intake Structure, Hand Rail	44.00 LF	165.60 /LF	7,286
				05.00 Metals	1.00 LS	364,353.24 /LS	364,353
				05.0 Metals	1.00 LS	364,353.24 /LS	364,353
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.100	Dunnigan - TCC Intake Structure, Electrical	1.00 LS	84,318.03 /LS	84,318
				26.00 Electrical	1.00 LS	84,318.03 /LS	84,318
				26.0 Electrical Work	1.00 LS	84,318.03 /LS	84,318
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.00.100	Dunnigan - TCC Intake Structure, Excavation and Backfill	9,633.00 CY	18.66 /CY	179,765
				31.25 Earthworks, Structural	9,633.00 CY	18.66 /CY	179,765

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				31.0 Earthwork	9,633.00 CY	18.66 /CY	179,765
	32.0			Exterior Improvements			
		31.20		Earthworks, Site			
			32.00.002	Dunnigan - TCC Intake Structure, Grading and Seeding	14,400.00 SY	3.53 /SY	50,801
				31.20 Earthworks, Site	1.00 LS	50,801.32 /LS	50,801
		31.35		Site Landscaping			
			32.00.002	Dunnigan - TCC Intake Structure, Grading and Seeding	14,400.00 SY	15.40 /SY	221,803
				31.35 Site Landscaping	1.00 LS	221,803.03 /LS	221,803
		32.12		Paving			
			32.00.000	Dunnigan - TCC Intake Structure, Gravel Surfacing	1,227.00 SY	33.25 /SY	40,797
				32.12 Paving	1,227.00 SY	33.25 /SY	40,797
				32.0 Exterior Improvements	1.00 LS	313,401.63 /LS	313,402
	40.3			Water Control Gates			
		40.51		Water Control Gates, Slide/Weir Gates			
			40.00.100	Dunnigan - TCC Intake Structure, Water Control Gates	4.00 EA	219,052.48 /EA	876,210
				40.51 Water Control Gates, Slide/Weir Gates	4.00 EA	219,052.48 /EA	876,210
				40.3 Water Control Gates	4.00 EA	219,052.48 /EA	876,210
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.100	Dunnigan - TCC Intake Structure, I&C	1.00 LS	37,726.38 /LS	37,726
				40.90 Instrumentation & Controls	1.00 LS	37,726.38 /LS	37,726
				40.9 Instrumentation & Controls	1.00 LS	37,726.38 /LS	37,726
				5100 Dunnigan - TCC Intake Structure	**2,894.00 SF**	**978.37 /SF**	**2,831,411**
5200				**Dunnigan - CBD Discharge Structure**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.00.200	Dunnigan - CBD Discharge Structure, Removal and Control of Water	4.00 MO	55,874.46 /MO	223,498
				01.01 Construction Operations	4.00 MO	55,874.46 /MO	223,498
				01.0 General Requirements	4.00 MO	55,874.46 /MO	223,498
	02.0			Existing Conditions			
		02.40		Demolition			
			02.00.200	Dunnigan - CBD Discharge Structure, Partial Demolition of Existing Canal Lining	1,218.00 SF	5.02 /SF	6,118
				02.40 Demolition	1,218.00 SF	5.02 /SF	6,118
				02.0 Existing Conditions	1,218.00 SF	5.02 /SF	6,118
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.106	Dunnigan - CBD Discharge Structure, Foundation Slab	838.00 CY	901.48 /CY	755,443
			03.00.110	Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls	241.00 CY	913.41 /CY	220,132
				03.18 Cast-In-Place Concrete, Slabs on Grade	1,079.00 CY	904.15 /CY	975,574
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.108	Dunnigan - CBD Discharge Structure, Concrete Walls	1,170.00 CY	1,740.66 /CY	2,036,569
			03.00.110	Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls	26.00 CY	1,852.76 /CY	48,172
				03.20 Cast-In-Place Concrete, Straight Walls	1,196.00 CY	1,743.09 /CY	2,084,741
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.00.112	Dunnigan - CBD Discharge Structure, Elevated Slab and Beams	218.00 CY	2,025.75 /CY	441,614
				03.24 Cast-In-Place Concrete, Elevated Slabs	218.00 CY	2,025.75 /CY	441,614
				03.0 Concrete Work	2,493.00 CY	1,404.70 /CY	3,501,929
	05.0			Metals			
		05.00		Metals			
			05.00.104	Dunnigan - CBD Discharge Structure, Grating and Structural Supports	1.00 LS	283,631.95 /LS	283,632
			05.00.106	Dunnigan - CBD Discharge Structure, Trash Racks	4.00 EA	27,302.70 /EA	109,211
			05.00.108	Dunnigan - CBD Discharge Structure, Handrail	280.00 LF	158.53 /LF	44,389
			05.00.110	Dunnigan - CBD Discharge Structure, Metal Platforms at Valve Operators	1.00 EA	44,723.42 /EA	44,723
			05.00.112	Dunnigan - CBD Discharge Structure, Access Hatches	9.00 EA	19,466.29 /EA	175,197
				05.00 Metals	1.00 LS	657,151.87 /LS	657,152
				05.0 Metals	1.00 LS	657,151.87 /LS	657,152
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.200	Dunnigan - CBD Discharge Structure, Electrical	1.00 LS	152,132.55 /LS	152,133
				26.00 Electrical	1.00 LS	152,132.55 /LS	152,133
				26.0 Electrical Work	1.00 LS	152,132.55 /LS	152,133
	31.0			Earthwork			
		31.25		Earthworks, Structural			
			31.00.102	Dunnigan - CBD Discharge Structure, Excavation and Backfill	29,084.00 CY	21.14 /CY	614,706
				31.25 Earthworks, Structural	29,084.00 CY	21.14 /CY	614,706
				31.0 Earthwork	29,084.00 CY	21.14 /CY	614,706
	32.0			Exterior Improvements			
		31.20		Earthworks, Site			
			32.00.202	Dunnigan - CBD Discharge Structure, Grading and Seeding	867.00 SY	3.53 /SY	3,059
				31.20 Earthworks, Site	1.00 LS	3,058.66 /LS	3,059
		31.30		Site Specialties			
			32.00.204	Dunnigan - CBD Discharge Structure, Rip Rap	665.00 SY	248.29 /SY	165,112

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
				31.30 Site Specialties	1.00 LS	165,111.96 /LS	165,112
		31.35		Site Landscaping			
			32.00.202	Dunnigan - CBD Discharge Structure, Grading and Seeding	867.00 SY	15.40 /SY	13,354
				31.35 Site Landscaping	1.00 LS	13,354.38 /LS	13,354
		32.12		Paving			
			32.00.200	Dunnigan - CBD Discharge Structure, Gravel Surfacing	2,062.22 SY	33.25 /SY	68,568
				32.12 Paving	2,062.22 SY	33.25 /SY	68,568
				32.0 Exterior Improvements	1.00 LS	250,093.01 /LS	250,093
	40.0			Process Pipe			
		40.00		Exposed Process Pipe - General Items			
			33.00.110	Dunnigan - CBD Discharge Structure, Process Piping and Valving	320.00 LF	12,766.36 /LF	4,085,236
				40.00 Exposed Process Pipe - General Items	320.00 LF	12,766.36 /LF	4,085,236
				40.0 Process Pipe	320.00 LF	12,766.36 /LF	4,085,236
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.200	Dunnigan - CBD Discharge Structure, I&C	1.00 LS	63,625.40 /LS	63,625
				40.90 Instrumentation & Controls	1.00 LS	63,625.40 /LS	63,625
				40.9 Instrumentation & Controls	1.00 LS	63,625.40 /LS	63,625
				5200 Dunnigan - CBD Discharge Structure	**3,400.00 SF**	**2,810.14 /SF**	**9,554,489**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	57,044,383		419,497.278	
Material	82,670,117			
Subcontractor	7,059,602			
Equipment	31,142,732		176,255.640	
Other				
Subtotal w/ Prime Markups	**177,916,834**	**177,916,834**		
Contractor Contingency	5,337,505			3.000 %
Design Contingency	32,025,030			18.000 %
Opinion of Probable Construction Costs	**37,362,535**	**215,279,369**		

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Detail Report
Project Name: Dunnigan Pipeline
Project Number: D3880600
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R03 - 04/28/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
5000					**General Conditions**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.I5.000		**General Conditions, Other**											
				01.01.05.00	General Conditions, Other											
					Drug Tests	100.00 ea		-	7,500	0	-	-	75.00 /ea	7,500	98.56 /ea	9,856
					Miscellaneous Health & Safety Programs	1.00 ls			150,000	-	-	0	150,000.00 /ls	150,000	197,123.19 /ls	197,123
					Project Environmental Requirements	1.00 ls		-	75,000	-	-	-	75,000.00 /ls	75,000	98,561.60 /ls	98,562
					01.01.05.00 General Conditions, Other	*24.00* MO			232,500				9,687.50 /MO	232,500	12,730.87 /MO	305,541
					01.I5.000 General Conditions, Other	*1.00* LS			232,500				232,500.00 /LS	232,500	305,540.95 /LS	305,541
			01.I5.005		**GC Labor**											
				01.01.06.01	GC Labor											
					Project Executive	12.00 mo	1,920	374,400	-	-	-	-	31,200.00 /mo	374,400	38,739.63 /mo	464,876
					Assist Project Manager	24.00 mo	3,840	599,040	-	-	-	-	24,960.00 /mo	599,040	30,991.70 /mo	743,801
					Project Manager	24.00 MO	3,840	599,040	-	-	-	-	24,960.00 /MO	599,040	30,991.70 /MO	743,801
					Superintendent	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	23,839.77 /mo	572,154
					Asst Superintendent (2)	24.00 mo	3,840	460,800	-	-	-	-	19,200.00 /mo	460,800	23,839.77 /mo	572,154
					Project Engineer	24.00 mo	3,840	441,600	-	-	-	-	18,400.00 /mo	441,600	22,846.45 /mo	548,315
					Field Engineer (4)	48.00 mo	7,680	729,600	-	-	-	-	15,200.00 /mo	729,600	18,873.15 /mo	905,911
					Admin Asst.	24.00 mo	3,840	249,600	-	-	-	-	10,400.00 /mo	249,600	12,913.21 /mo	309,917
					Scheduling Manager	24.00 mo	3,840	445,440	-	-	-	-	18,560.00 /mo	445,440	23,045.11 /mo	553,083
					Assistant Safety Manager	24.00 mo	3,840	576,000	-	-	-	-	24,000.00 /mo	576,000	29,799.71 /mo	715,193
					Safety Manager	12.00 mo	1,920	288,000	-	-	-	-	24,000.00 /mo	288,000	29,799.71 /mo	357,597
					Site Skilled Labor (4)	48.00 mo	7,680	844,800	-	-	-	-	17,600.00 /mo	844,800	21,853.12 /mo	1,048,950
					01.01.06.01 GC Labor	24.00 MO	49,920	6,069,120					252,880.00 /MO	6,069,120	313,989.64 /MO	7,535,751
					01.I5.005 GC Labor	*1.00* LS	49,920	6,069,120					6,069,120.00 /LS	6,069,120	7,535,751.26 /LS	7,535,751
			01.I5.010		**Jobsite Office**											
				01.01.06.00	Project Office											
					Telephone/fax setup	1.00 ea		-	3,000		-	-	3,000.00 /ea	3,000	3,942.46 /ea	3,942
					Telephone/fax monthly cost	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	657.08 /mo	15,770
					High Speed Connection - Install	1.00 ea		-	10,000		-	-	10,000.00 /ea	10,000	13,141.54 /ea	13,142
					High Speed Connection - Consumption	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	657.08 /mo	15,770
					Mobile Phone	24.00 mo		-	0	-	22,800	-	950.00 /mo	22,800	1,179.57 /mo	28,310
					Field Office Demob	2.00 ea	120	12,928	-		-	-	6,464.04 /ea	12,928	8,026.10 /ea	16,052
					Field Office Tear Down	2.00 ea	240	25,856	-		-	-	12,928.08 /ea	25,856	16,052.22 /ea	32,104
					Field Office Set-up	2.00 ea	360	38,784	-		21,600	-	30,192.12 /ea	60,384	37,488.18 /ea	74,976
					Field Office Mob	2.00 ea	120	12,928	-	0	-	-	6,464.04 /ea	12,928	8,026.11 /ea	16,052
					Conference Trailer Rent	24.00 mo		-	45,000	-	-	-	1,875.00 /mo	45,000	2,464.04 /mo	59,137
					Field Office Trailer Rent (60 x 12) (3)	48.00 mo		-	84,000	-	-	-	1,750.00 /mo	84,000	2,299.77 /mo	110,389
					Office Furniture	2.00 ea		-	1,550	-	-	-	775.00 /ea	1,550	1,018.47 /ea	2,037
					Office Furniture - Rental	48.00 mo		-	36,000	-	-	-	750.00 /mo	36,000	985.62 /mo	47,310
					Conference Room Furniture	1.00 ea		-	1,000	-	-	-	1,000.00 /ea	1,000	1,314.14 /ea	1,314
					Server & Network	1.00 ea		-	55,000	-	-	-	55,000.00 /ea	55,000	72,278.52 /ea	72,279
					Printer	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,712.31 /ea	19,712
					Computer Software - Document Control	1.00 ea		-	65,000	-	-	-	65,000.00 /ea	65,000	85,420.06 /ea	85,420
					Water Cooler Services	24.00 mo		-	3,480	-	-	-	145.00 /mo	3,480	190.55 /mo	4,573
					Kitchen Equipment	1.00 ea		-	15,000	-	-	-	15,000.00 /ea	15,000	19,712.34 /ea	19,712
					Printing & Reproduction	24.00 mo		-	41,400	-	-	-	1,725.00 /mo	41,400	2,266.92 /mo	54,406
					Postage & Courier	24.00 mo		-	8,400	-	-	-	350.00 /mo	8,400	459.95 /mo	11,039
					Misc. Supplies	24.00 mo		-	68,400	-	-	-	2,850.00 /mo	68,400	3,745.34 /mo	89,888
					01.01.06.00 Project Office	*1.00* LS	840	90,497	476,230		44,400		611,126.56 /LS	611,127	793,334.84 /LS	793,335
					01.I5.010 Jobsite Office	*1.00* LS	840	90,497	476,230		44,400		611,126.56 /LS	611,127	793,334.84 /LS	793,335
			01.I5.011		**Temporary Facilities**											
				01.01.06.02	GC Temporary Facilities & Services											
					Temporary offsite Parking and Laydown Area @ 17,250 per month	24.00 mo		-	414,000		-	-	17,250.00 /mo	414,000	22,669.17 /mo	544,060
					Temporary bussing of workers to site - 1 shuttle full time	24.00 mo	4,152	311,400			103,800	-	17,300.00 /mo	415,200	21,480.63 /mo	515,535
					Laydown Area	8,000.00 sy	240	28,686	16,000		11,439	-	7.02 /sy	56,125	8.86 /sy	70,848
					Temporary Parking - Office	500.00 sy	15	1,793	1,000		715	-	7.02 /sy	3,508	8.86 /sy	4,428
					Temporary Parking - Site	1,000.00 sy	30	3,586	2,000		1,430	-	7.02 /sy	7,016	8.86 /sy	8,856
					Temporary Fence - Office	1,600.00 lf	96	10,342	8,000		-	-	11.46 /lf	18,342	14.60 /lf	23,355
					Temporary Gate - Office	2.00 ea	64	6,895	2,400	0	-	-	4,647.49 /ea	9,295	5,857.58 /ea	11,715
					Guard Shack - Set Up	2.00 ea	72	7,757	-	0	-	-	3,878.43 /ea	7,757	4,815.67 /ea	9,631
					Tempoary Warehouse rental	24.00 MO		-	91,200	-	-	-	3,800.00 /MO	91,200	4,993.79 /MO	119,851
					Guard Shack - Rent (2)	48.00 mo		-	57,600	-	-	-	1,200.00 /mo	57,600	1,576.99 /mo	75,695
					Site Security Services	24.00 mo		539,760	-		-	-	22,490.00 /mo	539,760	27,924.81 /mo	670,196
					Site security - personnel background checks and badging	100.00 ea		-	36,000		-	-	360.00 /ea	36,000	473.10 /ea	47,310
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO	4,669	910,219	628,200		117,384		68,991.78 /MO	1,655,803	87,561.65 /MO	2,101,480
					01.I5.011 Temporary Facilities	*1.00* LS	4,669	910,219	628,200		117,384		1,655,802.69 /LS	1,655,803	2,101,479.65 /LS	2,101,480
			01.I5.012		**Temporary Services**											
				01.01.06.02	GC Temporary Facilities & Services											
					Electric Power - Consumption	24.00 MO		-	204,000	-	-	-	8,500.00 /MO	204,000	11,170.32 /MO	268,088
					Water - Install	1.00 ls		-	5,000		-	-	5,000.00 /ls	5,000	6,570.76 /ls	6,571
					Water - Consumption	24.00 mo		-	8,571	0	-	-	357.14 /mo	8,571	469.34 /mo	11,264
					Sewer - Install buried holding tank	1.00 ls		-	12,500	0	-	-	12,500.00 /ls	12,500	16,426.93 /ls	16,427
					Sewer - Septic Service	24.00 mo		40,000		0	-	-	1,666.67 /mo	40,000	2,069.43 /mo	49,666
					Hand Washing Station (3)	48.00 mo		-	7,680		-	-	160.00 /mo	7,680	210.27 /mo	10,093
					Portable Toilets (3)	48.00 mo		-	18,000	0	-	-	375.00 /mo	18,000	492.81 /mo	23,655
					Janitorial Service (3)	48.00 mo		-	22,800	0	-	-	475.00 /mo	22,800	624.22 /mo	29,963
					01.01.06.02 GC Temporary Facilities & Services	24.00 MO		40,000	278,551				13,272.98 /MO	318,551	17,321.91 /MO	415,726
					01.I5.012 Temporary Services	*1.00* LS		40,000	278,551				318,551.45 /LS	318,551	415,725.85 /LS	415,726
			01.I5.013		**Travel**											
				01.01.06.02	GC Temporary Facilities & Services											
					Construction Delivery - Daily Hotel Per Diem $150.00/day (Mgmt Staff)	132.00 mo		-	428,670	-	-		3,247.50 /mo	428,670	4,267.72 /mo	563,339
					Construction Delivery - Air Fare (mgmt 1 flight per month)	132.00 ea		-	49,500	-	-	0	375.00 /ea	49,500	492.81 /ea	65,051

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Detail Report
Project Name: Dunnigan Pipeline
Project Number: D3880600
Design Stage: 30% Design

Estimator: Jacobs
Rev No. / Data: R03 - 04/28/2025
Class Estimate: Class 3

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				01.01.06.02	GC Temporary Facilities & Services											
					Business travel - Air Fare	132.00 ea		-	72,600	-	-	0	550.00 /ea	72,600	722.78 /ea	95,408
					Business travel - Hotel	240.00 day		-	32,400	-	-	0	135.00 /day	32,400	177.41 /day	42,579
					Business travel - Rental Car	240.00 day		-	18,000	-	-	0	75.00 /day	18,000	98.56 /day	23,655
					Temporary housing (Shared Single family home) - Assumed 4 GCManagement Staff	132.00 mo		-	594,000	-	-		4,500.00 /mo	594,000	5,913.70 /mo	780,608
					Temporary housing (4 to share a single family home) Specialty Contractors	24.00 MO		-	108,000	-	-		4,500.00 /MO	108,000	5,913.70 /MO	141,929
					Personnel moving expense for 4 GC Management Staff	6.00 EA		-	33,000	-	-		5,500.00 /EA	33,000	7,227.85 /EA	43,367
					Personnel moving expense for 8 specialty workers	16.00 EA		-	80,000	-	-		5,000.00 /EA	80,000	6,570.77 /EA	105,132
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**		**1,416,170**					**59,007.08 /MO**	**1,416,170**	**77,544.44 /MO**	**1,861,066**
					01.I5.013 Travel	***1.00*** **LS**			**1,416,170**				**1,416,170.00 /LS**	**1,416,170**	**1,861,066.46 /LS**	**1,861,066**
			01.I5.014		**Site Cleanup**											
				01.01.06.02	GC Temporary Facilities & Services											
					Office Daily Cleaning up	104.00 wk	1,040	93,879	-	-	-	-	902.68 /wk	93,879	1,120.82 /wk	116,565
					Jobiste Daily Cleaning up	104.00 wk	2,080	187,757	16,640	-	-	-	1,965.36 /wk	204,397	2,451.90 /wk	254,997
					Dumpster Rental	24.00 MO		-	28,800	-	-	-	1,200.00 /MO	28,800	1,576.99 /MO	37,848
					Dumpster Pulls	104.00 ea		-	80,600	-	-	-	775.00 /ea	80,600	1,018.47 /ea	105,921
					Final Clean-up	1.00 ls	600	27,900	2,500	-		-	30,400.00 /ls	30,400	37,927.56 /ls	37,928
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**	**3,720**	**309,536**	**128,540**				**18,253.17 /MO**	**438,076**	**23,052.44 /MO**	**553,258**
					01.I5.014 Site Cleanup	***1.00*** **LS**	**3,720**	**309,536**	**128,540**				**438,076.16 /LS**	**438,076**	**553,258.46 /LS**	**553,258**
			01.I5.014A		**Site Safety**											
				01.01.06.02	GC Temporary Facilities & Services											
					Safety Equipment and devices	1.00 ls		-	50,000	-	-	-	50,000.00 /ls	50,000	65,707.73 /ls	65,708
					Site Safety Training - non productive time	24.00 MO	10,920	985,727		-	-	-	41,071.94 /MO	985,727	50,997.17 /MO	1,223,932
					First Aid Consumables	24.00 mo		-	12,000	-	-	-	500.00 /mo	12,000	657.08 /mo	15,770
					01.01.06.02 GC Temporary Facilities & Services	**24.00 MO**	**10,920**	**985,727**	**62,000**				**43,655.27 /MO**	**1,047,727**	**54,392.07 /MO**	**1,305,410**
					01.I5.014A Site Safety	***1.00*** **LS**	**10,920**	**985,727**	**62,000**				**1,047,726.56 /LS**	**1,047,727**	**1,305,409.58 /LS**	**1,305,410**
			01.I5.015		**GC Equip, Tools, & Consumables**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					Staff Vehicles (4)	96.00 mo		-	-	-	77,952	-	812.00 /mo	77,952	1,008.22 /mo	96,789
					Yard Pickup Truck (4)	96.00 mo		-		-	77,952	-	812.00 /mo	77,952	1,008.22 /mo	96,789
					Staff Vehicle Fuel	96.00 mo		-	840,000	-		-	8,750.00 /mo	840,000	11,498.85 /mo	1,103,890
					Water Truck	24.00 mo		-	15,000	-	60,000	-	3,125.00 /mo	75,000	3,925.48 /mo	94,212
					Site Storage Connex boxes	5.00 ea		-	3,750	-	-	-	750.00 /ea	3,750	985.61 /ea	4,928
					Small Tools (~0.5% Labor)	1.00 ls		-	250,000	-	-	-	250,000.00 /ls	250,000	328,538.67 /ls	328,539
					Ice Machine	24.00 MO		-	6,000	-	-	-	250.00 /MO	6,000	328.54 /MO	7,885
					Coolers & Drinking Cups	24.00 mo		-	2,400	-	-	-	100.00 /mo	2,400	131.42 /mo	3,154
					Project Sign	1.00 ea		-	6,500	-	-	-	6,500.00 /ea	6,500	8,542.02 /ea	8,542
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**			**1,123,650**		**215,904**		**1,339,554.00 /LS**	**1,339,554**	**1,744,728.12 /LS**	**1,744,728**
					01.I5.015 GC Equip, Tools, & Consumables	***1.00*** **LS**			**1,123,650**		**215,904**		**1,339,554.00 /LS**	**1,339,554**	**1,744,728.12 /LS**	**1,744,728**
			01.I5.016		**Material Handling**											
				01.01.06.03	GC Equip, Tools, & Consumables											
					150 tn Crawler, with Operator	24.00 MO	4,160	541,746	559,920	-	476,280	-	65,747.77 /MO	1,577,946	83,327.45 /MO	1,999,859
					Crane setup and removal	4.00 ea	180	23,441	6,000		35,622	-	16,265.63 /ea	65,063	20,305.04 /ea	81,220
					Crane Pads and Removal (5 m x 5 m)	4.00 ea	240	31,254	26,826		15,832	-	18,478.00 /ea	73,912	23,429.52 /ea	93,718
					01.01.06.03 GC Equip, Tools, & Consumables	***1.00*** **LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,174,796.93 /LS**	**2,174,797**
					01.I5.016 Material Handling	***1.00*** **LS**	**4,580**	**596,441**	**592,746**		**527,734**		**1,716,920.88 /LS**	**1,716,921**	**2,174,796.93 /LS**	**2,174,797**
			01.I5.020		**GC Indirect Services & Support**											
				01.01.06.04	GC Indirect Services & Support											
					Video Survey of Site	1.00 ea		-	12,520	0	-	-	12,520.00 /ea	12,520	16,453.21 /ea	16,453
					Aerial Photos	20.00 ea		-	5,500	0	-	-	275.00 /ea	5,500	361.39 /ea	7,228
					Construction Photos	24.00 MO		-	8,400	0	-	-	350.00 /MO	8,400	459.95 /MO	11,039
					Web Camera	1.00 ea		-	25,000	-	-	-	25,000.00 /ea	25,000	32,853.88 /ea	32,854
					Miscellaneous third party testing and inspections	1.00 ls		250,000	-	0	-	-	250,000.00 /ls	250,000	310,413.67 /ls	310,414
					Survey Consultant	125.00 day	1,000	95,000	-		58,000	-	1,224.00 /day	153,000	1,519.79 /day	189,973
					01.01.06.04 GC Indirect Services & Support	**24.00 MO**	**1,000**	**345,000**	**51,420**		**58,000**		**18,934.17 /MO**	**454,420**	**23,665.03 /MO**	**567,961**
					01.I5.020 GC Indirect Services & Support	***1.00*** **LS**	**1,000**	**345,000**	**51,420**		**58,000**		**454,420.00 /LS**	**454,420**	**567,960.67 /LS**	**567,961**
			01.I6.000		**Quality Control**											
				01-01-06-01	GC Labor											
					Quality Control	24.00 MO	4,160	478,391	-	-	-	-	19,932.95 /MO	478,391	24,749.84 /MO	593,996
					Quality Mgr. (3)	24.00 mo	4,160	665,587	-	-	-	-	27,732.80 /mo	665,587	34,434.56 /mo	826,429
					01-01-06-01 GC Labor	**24.00 MO**	**8,320**	**1,143,978**					**47,665.75 /MO**	**1,143,978**	**59,184.40 /MO**	**1,420,426**
					01.I6.000 Quality Control	***1.00*** **LS**	**8,320**	**1,143,978**					**1,143,978.00 /LS**	**1,143,978**	**1,420,425.63 /LS**	**1,420,426**
					01.01 Construction Operations	***24.00*** **MO**	**83,969**	**10,490,517**	**4,990,007**		**963,422**		**685,164.43 /MO**	**16,443,946**	**865,811.60 /MO**	**20,779,478**
					01.0 General Requirements	***24.00*** **MO**	**83,969**	**10,490,517**	**4,990,007**		**963,422**		**685,164.43 /MO**	**16,443,946**	**865,811.60 /MO**	**20,779,478**
					5000 General Conditions	***1.00*** **LS**	**83,969**	**10,490,517**	**4,990,007**		**963,422**		**16,443,946.30 /LS**	**16,443,946**	**20,779,478.40 /LS**	**20,779,478**
5020					**Dunnigan Pipeline**											
	32.0				**Exterior Improvements**											
		32.12			**Paving**											
			32.40.02.0010		**Pavement Restoration**											
				32.40.02.00	Site Improvements, Paving, Bituminous Asphalt											
					Selective demolition, saw cutting, asphalt, up to 4" deep	2,156.00 lf	33	3,651	237	-	1,391	-	2.45 /lf	5,280	3.05 /lf	6,573
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	6,573.33 sy	53	5,680	-	-	3,658	-	1.42 /sy	9,338	1.76 /sy	11,595
					Base course drainage layers, aggregate base course for roadways and large paved areas, stone base, compacted, 3/4" stone base, to 12" deep	6,573.33 sy	63	7,123	98,929	-	6,594	-	17.14 /sy	112,646	22.37 /sy	147,040
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	6,573.33 SY	45	5,124	-	-	3,105	-	1.25 /SY	8,229	1.55 /SY	10,218
					Bituminous-stabilized base courses, for roadways and large paved areas, prime and seal,cut back asphalt to gravel base, asphalt emulsion	952.00 gal	3	285	7,806	-	148	-	8.65 /gal	8,239	11.34 /gal	10,796
					Asphaltic concrete, parking lots & driveways, binder course, 4" thick	59,160.00 sf	263	27,068	118,320	-	15,263	-	2.72 /sf	160,651	3.52 /sf	208,052
					Asphaltic concrete, parking lots & driveways, sand finish course, 3/4" thick	59,160.00 sf	69	7,130	44,370	-	4,020	-	0.94 /sf	55,520	1.22 /sf	72,154
					32.40.02.00 Site Improvements, Paving, Bituminous Asphalt	**6,573.33 SY**	**528**	**56,062**	**269,662**		**34,179**		**54.75 /SY**	**359,904**	**70.96 /SY**	**466,426**
					32.40.02.0010 Pavement Restoration	**6,573.33 SY**	**528**	**56,062**	**269,662**		**34,179**		**54.75 /SY**	**359,904**	**70.96 /SY**	**466,426**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					32.12 Paving	**6,573.33 SY**	**528**	**56,062**	**269,662**		**34,179**		**54.75 /SY**	**359,904**	**70.96 /SY**	**466,426**
					32.0 Exterior Improvements	***1.00*** **LS**	**528**	**56,062**	**269,662**		**34,179**		**359,903.55 /LS**	**359,904**	**466,426.44 /LS**	**466,426**
	33.0				**Pipelines**											
		33.03			**Buried Process Pipe, Carbon Steel**											
			33.00.05.10.5-1a		**Dunnigan Pipeline, Single Pipe Trench, (3123-110)**											
				31.00.01.01	**Trenching, Backfill, and Compaction**											
					Structural concrete,ready mix,flowable fill,structural,50 psi,includes ash,cement,aggregate,sand,water,delivered,excludes all additives and treatments	66,192.65 cy		-	4,964,449	-	-	-	75.00 /cy	4,964,449	98.56 /cy	6,524,054
					Structural concrete, placing, foundation mat, pumped, over 20 C.Y., includes strike off & consolidation, excludes material	66,192.65 cy	17,651	1,690,104	-	-	248,639	-	29.29 /cy	1,938,743	36.37 /cy	2,407,249
					Excavating, trench or continuous footing, sand and gravel, 3 C.Y. excavator, 10' to 14' deep, excludes sheeting or dewatering	130,397.11 cy	1,355	149,853	-	-	206,804	-	2.74 /cy	356,656	3.40 /cy	442,844
					Excavating, trench or continuous footing, dense hard clay, 3 C.Y. excavator, 14' to 20' deep, excludes sheeting or dewatering	345,454.40 CY	6,281	694,746	-	-	958,779	-	4.79 /CY	1,653,525	5.94 /CY	2,053,107
					Drilling and blasting rock, areas where blasting mats are required, assumes 10% blasting	38,383.82 CY	3,685	379,742	173,111	-	274,187	-	21.55 /CY	827,040	27.08 /CY	1,039,449
					Backfill, 12" layers, compaction in layers, roller compaction with operator walking, ABOVE PIPE ZONE	253,410.15 ecy	20,273	2,304,755	-	-	271,439	-	10.17 /ecy	2,576,194	12.62 /ecy	3,198,744
					Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, BEDDING	3,173.33 lcy	508	51,708	57,437	-	5,982	-	36.28 /lcy	115,127	46.36 /lcy	147,112
					Hauling,excavated borrow material,loose cubic yards,20 mile round trip,0.4 load/hr,base wide rate,12 cy truck,highway haulers,excludes loading	130,397.11 lcy	26,748	2,653,009	-	-	2,698,856	-	41.04 /lcy	5,351,865	50.96 /lcy	6,645,168
					Dewatering Allowance	200.00 msf				600,000			3,000.00 /msf	600,000	3,724.96 /msf	744,993
					Erosion and Dust Controls Allowance	956.00 DY				4,780,000			5,000.00 /DY	4,780,000	6,208.27 /DY	5,935,109
					31.00.01.01 Trenching, Backfill, and Compaction	**383,838.22 CY**	**76,501**	**7,923,917**	**5,194,997**	**5,380,000**	**4,664,686**		**60.35 /CY**	**23,163,600**	**75.91 /CY**	**29,137,829**
				31.15.01.00	**Site Preparation, Clearing and Grubbing**											
					Dump charges, typical urban city, fees only, demo lbr, trees, brush	17,243.54 cy		-	172,435		-	-	10.00 /cy	172,435	13.14 /cy	226,607
					Clearing & grubbing, brush, including stumps	42.75 AC	4,104	442,413	-	-	482,793	-	21,642.24 /AC	925,206	26,872.19 /AC	1,148,786
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	17,243.54 cy	1,768	175,407	-	-	161,150	-	19.52 /cy	336,556	24.23 /cy	417,887
					31.15.01.00 Site Preparation, Clearing and Grubbing	**42.75 AC**	**5,872**	**617,819**	**172,435**		**643,943**		**33,548.48 /AC**	**1,434,198**	**41,948.06 /AC**	**1,793,280**
				32.40.11.01	**Surface Restorations**											
					Final Grading	206,922.00 SY	3,311	357,611	-	-	230,309	-	2.84 /SY	587,920	3.53 /SY	729,994
					Topsoil placement and grading, loam or topsoil, fine grading and seeding, with equipment	206,922.00 sy	9,932	963,677	115,876	-	58,506	-	5.50 /sy	1,138,059	6.87 /sy	1,421,478
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	206,922.00 sy	4,104	431,238	459,367	-	189,292	-	5.22 /sy	1,079,898	6.64 /sy	1,374,164
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	206,922.00 sy	1,117	117,404	438,675	-	51,535	-	2.94 /sy	607,613	3.80 /sy	786,250
					32.40.11.01 Surface Restorations	**206,922.00 SY**	**18,465**	**1,869,930**	**1,013,918**		**529,642**		**16.50 /SY**	**3,413,490**	**20.84 /SY**	**4,311,885**
				33.00.05.126d	**Dunnigan -Buried Pipe, WSP, 126"**											
					126" CS butt weld, 1/2" wall	952.00 ea	41,869	5,347,629	417,976		785,378	-	6,881.28 /ea	6,550,983	8,576.01 /ea	8,164,362
					Piping, WSP 0.625" Wt Polyurethane Lined and Coated, 126" diameter	19,040.00 LF	53,312	5,554,136	31,898,158	-	2,268,898	-	2,086.20 /LF	39,721,191	2,711.80 /LF	51,632,619
					33.00.05.126d Dunnigan -Buried Pipe, WSP, 126"	**19,040.00 LF**	**95,181**	**10,901,765**	**32,316,133**		**3,054,276**		**2,430.26 /LF**	**46,272,174**	**3,140.60 /LF**	**59,796,981**
				33.10.05.98	**Access Manway**											
					36" Accessway	7.00 EA	168	19,007	56,000	-	4,200	-	11,315.34 /EA	79,207	14,629.74 /EA	102,408
					Utility area drains,catch basins manhls catch basins manhls frames and covers,cast iron,heavy traffc,36"dm,1150lb, excluds footing,excavtn,and backfill	7.00 ea	56	5,703	20,300	-	660	-	3,808.98 /ea	26,663	4,939.68 /ea	34,578
					Manholes, Frames, and Covers, concrete, precast, 9' inside diameter, 8' deep, excludes footing, excavation, backfill, frame and cover	7.00 ea	224	22,812	95,200	-	1,979	-	17,141.66 /ea	119,992	22,270.02 /ea	155,890
					Storm Drainage Manholes, Frames, and Covers, precast concrete, 9' diameter manhole, 8" thick top	7.00 ea	56	5,703	10,500	-	495	-	2,385.41 /ea	16,698	3,070.61 /ea	21,494
					Storm Drainage Manholes, Frames, and Covers, steps, standard sizes, galvanized steel	42.00 ea	8	866	1,218	-	-	-	49.63 /ea	2,084	63.72 /ea	2,676
					ARV and Piping	1.00 ea	16	1,836	6,500	-	-	-	8,336.34 /ea	8,336	10,822.10 /ea	10,822
					Miscellaneous Items and Consumables Allowance	1.00 ls		3,000	5,000	-	2,000	-	10,000.00 /ls	10,000	12,779.06 /ls	12,779
					33.10.05.98 Access Manway	**7.00 EA**	**528**	**58,929**	**194,718**		**9,334**		**37,568.63 /EA**	**262,980**	**48,663.99 /EA**	**340,648**
				33.10.06.98	**CARV**											
					10" CARV, Includes Piping and Valving	6.00 EA	144	16,527	60,000	-	-	-	12,754.50 /EA	76,527	16,561.69 /EA	99,370
					Utility area drains,catch basins manhls catch basins manhls frames and covers,cast iron,heavy traffc,36"dm,1150lb, excluds footing,excavtn,and backfill	6.00 ea	48	4,888	17,400	-	565	-	3,808.98 /ea	22,854	4,939.69 /ea	29,638
					Manholes, Frames, and Covers, concrete, precast, 6' inside diameter., 6' deep, excludes footing, excavation, backfill, frame and cover	6.00 ea	192	19,553	25,200	-	1,696	-	7,741.66 /ea	46,450	9,916.96 /ea	59,502
					Storm Drainage Manholes, Frames, and Covers, precast concrete, 6' diameter manhole, 8" thick top	6.00 ea	48	4,888	9,000	-	424	-	2,385.42 /ea	14,312	3,070.61 /ea	18,424
					Manholes, Frames, and Covers, steps, standard sizes, galvanized steel	24.00 ea	5	495	696	-	-	-	49.63 /ea	1,191	63.72 /ea	1,529
					33.10.06.98 CARV	**6.00 EA**	**437**	**46,352**	**112,296**		**2,686**		**26,889.06 /EA**	**161,334**	**34,743.84 /EA**	**208,463**
					33.00.05.10.5-1a Dunnigan Pipeline, Single Pipe Trench, (3123-110)	**19,040.00 LF**	**196,984**	**21,418,712**	**39,004,497**	**5,380,000**	**8,904,567**		**3,923.73 /LF**	**74,707,776**	**5,020.44 /LF**	**95,589,086**
					33.03 Buried Process Pipe, Carbon Steel	**19,040.00 LF**	**196,984**	**21,418,712**	**39,004,497**	**5,380,000**	**8,904,567**		**3,923.73 /LF**	**74,707,776**	**5,020.44 /LF**	**95,589,086**
					33.0 Pipelines	**19,040.00 LF**	**196,984**	**21,418,712**	**39,004,497**	**5,380,000**	**8,904,567**		**3,923.73 /LF**	**74,707,776**	**5,020.44 /LF**	**95,589,086**
					5020 Dunnigan Pipeline	**19,040.00 LF**	**197,512**	**21,474,774**	**39,274,160**	**5,380,000**	**8,938,746**		**3,942.63 /LF**	**75,067,680**	**5,044.93 /LF**	**96,055,512**
5021					**Dunnigan Pipeline, Tunneling**											
	33.0				**Pipelines**											
		33.60			**Trenchless Technology, Tunneling**											
			33.00.102		**Dunnigan Pipeline, Trenchless Pipe Installation, at I-5**											
				33.60.01.07	**Pipeline Specials, Tunneling, 126" Piping in 144" Casing**											
					Mobilization	1.00 ls	12,980	992,710	500,000		346,774		1,839,484.40 /ls	1,839,484	2,504,202.85 /ls	2,504,203
					Launch Shaft	40.00 vlf	3,854	317,522	1,253,303	4,722	118,500		42,351.16 /vlf	1,694,046	59,080.44 /vlf	2,363,218
					Reception Shaft	42.00 vlf	3,719	306,499	1,137,090	4,053	116,125		37,232.53 /vlf	1,563,766	51,906.38 /vlf	2,180,068
					Turn Under at Launch Shaft	1.00 ls	816	67,589	23,145		31,970		122,703.74 /ls	122,704	166,304.07 /ls	166,304
					Assemble 12 Foot TBM	1.00 ls	5,359	450,429	280,320		361,874		1,092,622.72 /ls	1,092,623	1,486,245.58 /ls	1,486,246
					Excavate & Support Long Tunnel 12' Dia. - Tunnel A	438.00 LF	11,095	917,466	326,257	23,998	343,331		3,678.20 /LF	1,611,052	4,983.40 /LF	2,182,730
					Muck Haul & Dump	2,385.00 cy	48	3,842	19,581	29,813	2,576		23.40 /cy	55,811	30.74 /cy	73,317
					Furnish & Install Carrier Pipe Tunnel 12' Dia. - 10.5' Dia. Carrier - Tunnel A	512.00 lf	5,223	425,088	973,317		173,635		3,070.39 /lf	1,572,039	4,257.23 /lf	2,179,699
					Indirects	6.00 MO	12,975	1,568,159	572,131				356,714.88 /MO	2,140,289	485,501.44 /MO	2,913,009
					Plant & Equipment	438.00 lf					5,798,358		13,238.26 /lf	5,798,358	17,761.17 /lf	7,779,394
					Demobilization	1.00 ls	480	40,085			4,682		44,766.80 /ls	44,767	60,061.59 /ls	60,062

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					33.60.01.07 Pipeline Specials, Tunneling, 126" Piping in 144" Casing	**438.00 LF**	**56,550**	**5,089,387**	**5,085,144**	**62,585**	**7,297,823**		**40,034.11 /LF**	**17,534,940**	**54,539.38 /LF**	**23,888,249**
					33.00.102 Dunnigan Pipeline, Trenchless Pipe Installation, at I-5	**438.00 LF**	**56,550**	**5,089,387**	**5,085,144**	**62,585**	**7,297,823**		**40,034.11 /LF**	**17,534,940**	**54,539.38 /LF**	**23,888,249**
			33.00.104		**Dunnigan Pipeline, Trenchless Pipe Installation, at Highway 99/Rail Road Crossing**											
				33.60.01.07	**Pipeline Specials, Tunneling, 126" Piping in 144" Casing**											
					Mobilization	1.00 ls	12,980	992,710	500,000		346,774		1,839,484.40 /ls	1,839,484	2,504,202.86 /ls	2,504,203
					Launch Shaft	69.00 vlf	6,649	547,725	2,161,948	8,145	204,412		42,351.16 /vlf	2,922,230	59,080.44 /vlf	4,076,550
					Reception Shaft	65.00 vlf	5,756	474,343	1,759,782	6,272	179,717		37,232.53 /vlf	2,420,114	51,906.38 /vlf	3,373,915
					Turn Under at Launch Shaft	1.00 ls	816	67,589	23,145		31,970		122,703.74 /ls	122,704	166,304.05 /ls	166,304
					Assemble 12 Foot TBM	1.00 ls	5,359	450,429	280,320		361,874		1,092,622.72 /ls	1,092,623	1,486,245.59 /ls	1,486,246
					Excavate & Support Long Tunnel 12' Dia. - Tunnel A	362.00 LF	9,711	803,620	269,647	24,001	290,005		3,832.24 /LF	1,387,272	5,188.92 /LF	1,878,390
					Muck Haul & Dump	1,971.00 cy	39	3,175	16,182	24,638	2,129		23.40 /cy	46,123	30.74 /cy	60,591
					Furnish & Install Carrier Pipe Tunnel 12' Dia. - 10.5' Dia. Carrier - Tunnel A	437.00 lf	4,458	362,819	829,662		148,200		3,067.92 /lf	1,340,681	4,253.73 /lf	1,858,881
					Indirects	6.00 MO	12,975	1,568,159	572,131				356,714.88 /MO	2,140,289	485,501.44 /MO	2,913,009
					Plant & Equipment	362.00 lf					4,792,250		13,238.26 /lf	4,792,250	17,761.17 /lf	6,429,545
					Demobilization	1.00 ls	480	40,085			4,682		44,766.80 /ls	44,767	60,061.58 /ls	60,062
					33.60.01.07 Pipeline Specials, Tunneling, 126" Piping in 144" Casing	**362.00 LF**	**59,224**	**5,310,653**	**6,412,816**	**63,055**	**6,362,013**		**50,134.08 /LF**	**18,148,538**	**68,529.54 /LF**	**24,807,694**
					33.00.104 Dunnigan Pipeline, Trenchless Pipe Installation, at Highway 99/Rail Road Crossing	**362.00 LF**	**59,224**	**5,310,653**	**6,412,816**	**63,055**	**6,362,013**		**50,134.08 /LF**	**18,148,538**	**68,529.54 /LF**	**24,807,694**
					33.60 Trenchless Technology, Tunneling	**800.00 LF**	**115,774**	**10,400,040**	**11,497,961**	**125,641**	**13,659,837**		**44,604.35 /LF**	**35,683,478**	**60,869.93 /LF**	**48,695,943**
					33.0 Pipelines	**800.00 LF**	**115,774**	**10,400,040**	**11,497,961**	**125,641**	**13,659,837**		**44,604.35 /LF**	**35,683,478**	**60,869.93 /LF**	**48,695,943**
					5021 Dunnigan Pipeline, Tunneling	**800.00 LF**	**115,774**	**10,400,040**	**11,497,961**	**125,641**	**13,659,837**		**44,604.35 /LF**	**35,683,478**	**60,869.93 /LF**	**48,695,943**
5100					**Dunnigan - TCC Intake Structure**											
	02.0				**Existing Conditions**											
		02.40			**Demolition**											
			02.00.100		**Dunnigan - TCC Intake Structure, Partial Demolition of Existing Canal Lining**											
				02.01.01.00	**General Site Demolition**											
					Partial Demolition of Existing Canal Lining	1,800.00 SF	72	7,333	***2,000***	-	848	-	5.66 /SF	10,181	7.10 /SF	12,786
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	24.00 cy	3	298	360	-	273	-	38.79 /cy	931	49.25 /cy	1,182
					Load excavated spoils	24.00 cy	2	171	0	-	151	-	13.41 /cy	322	16.65 /cy	400
					Relocate Existing Power Pole and Guy Wire	1.00 ls	56	6,040	3,000	-	394	-	9,433.37 /ls	9,433	11,930.48 /ls	11,930
					02.01.01.00 General Site Demolition	**1,800.00 SF**	**133**	**13,840**	**5,360**		**1,666**		**11.59 /SF**	**20,867**	**14.61 /SF**	**26,298**
					02.00.100 Dunnigan - TCC Intake Structure, Partial Demolition of Existing Canal Lining	**1,800.00 SF**	**133**	**13,840**	**5,360**		**1,666**		**11.59 /SF**	**20,867**	**14.61 /SF**	**26,298**
					02.40 Demolition	**1,800.00 SF**	**133**	**13,840**	**5,360**		**1,666**		**11.59 /SF**	**20,867**	**14.61 /SF**	**26,298**
					02.0 Existing Conditions	**1,800.00 SF**	**133**	**13,840**	**5,360**		**1,666**		**11.59 /SF**	**20,867**	**14.61 /SF**	**26,298**
	03.0				**Concrete Work**											
		03.18			**Cast-In-Place Concrete, Slabs on Grade**											
			03.00.100		**Dunnigan - TCC Intake Structure, Foundation Slab**											
				03.10.05.30	**Cast-In-Place Concrete, Slabs on Grade, 30" thick**											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	595.00 sfca	55	5,782	577	-	-	-	10.69 /sfca	6,359	15.48 /sfca	9,209
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	29.00 ton	464	54,289	43,500	-	-	-	3,372.03 /ton	97,789	4,970.06 /ton	144,132
					Reinforcing in place, unloading & sorting, add to above - slabs	29.00 ton	16	1,936	-	-	672	-	89.94 /ton	2,608	129.67 /ton	3,760
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	342.00 cy		-	75,240	-	-	-	220.00 /cy	75,240	333.11 /cy	113,925
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	332.00 CY	115	10,997	-	-	1,618	-	38.00 /CY	12,615	54.78 /CY	18,187
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	3,585.00 sf	50	4,577	-	-	183	-	1.33 /sf	4,759	1.91 /sf	6,861
					Curing, sprayed membrane curing compound	35.85 csf	6	549	446	-	-	-	27.78 /csf	996	40.95 /csf	1,468
					Fine grading, fine grade for slab on grade, machine	398.33 sy	6	662	-	-	426	-	2.73 /sy	1,088	3.94 /sy	1,569
					03.10.05.30 Cast-In-Place Concrete, Slabs on Grade, 30" thick	**332.00 CY**	**713**	**78,792**	**119,763**		**2,899**		**606.79 /CY**	**201,454**	**900.94 /CY**	**299,111**
					03.00.100 Dunnigan - TCC Intake Structure, Foundation Slab	**332.00 CY**	**713**	**78,792**	**119,763**		**2,899**		**606.79 /CY**	**201,454**	**900.94 /CY**	**299,111**
					03.18 Cast-In-Place Concrete, Slabs on Grade	**332.00 CY**	**713**	**78,792**	**119,763**		**2,899**		**606.79 /CY**	**201,454**	**900.94 /CY**	**299,111**
		03.20			**Cast-In-Place Concrete, Straight Walls**											
			03.00.102		**Dunnigan - TCC Intake Structure, Concrete Walls**											
				03.10.06.30	**Cast-In-Place Concrete, Straight Walls, 30" thick**											
					C.I.P. concrete forms, wall, box out for opening, to 16" thick, over 10 S.F. (use perimeter), includes erecting, bracing, stripping and cleaning	30.00 lf	8	853	74	-	-	-	30.87 /lf	926	44.68 /lf	1,340
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	7,560.00 sfca	798	84,984	41,202	-	-	-	16.69 /sfca	126,186	24.46 /sfca	184,904
					Form oil, coverage varies greatly, maximum, includes material only	20.20 gal		-	475	-	-	-	23.50 /gal	475	35.58 /gal	719
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	30.30 ton	485	56,723	45,450	-	-	-	3,372.03 /ton	102,173	4,970.06 /ton	150,593
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	30.30 ton	17	2,023	-	-	703	-	89.94 /ton	2,725	129.67 /ton	3,929
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	30.30 ton	18	2,199	-	-	764	-	97.76 /ton	2,962	140.94 /ton	4,271
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	357.00 cy		-	78,540	-	-	-	220.00 /cy	78,540	333.11 /cy	118,922
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	346.00 CY	185	17,669	-	-	2,599	-	58.58 /CY	20,268	84.45 /CY	29,220
					Finishing; break ties & patch voids (walls, cols or beams)	7,473.00 sf	111	10,109	224	-	-	-	1.38 /sf	10,333	2.00 /sf	14,914
					Bulkhead Embeds	16.00 ea	128	15,993	19,200	-	2,401	-	2,349.62 /ea	37,594	3,474.33 /ea	55,589
					03.10.06.30 Cast-In-Place Concrete, Straight Walls, 30" thick	**346.00 CY**	**1,749**	**190,552**	**185,164**		**6,467**		**1,104.57 /CY**	**382,183**	**1,631.21 /CY**	**564,400**
					03.00.102 Dunnigan - TCC Intake Structure, Concrete Walls	**346.00 CY**	**1,749**	**190,552**	**185,164**		**6,467**		**1,104.57 /CY**	**382,183**	**1,631.21 /CY**	**564,400**
					03.20 Cast-In-Place Concrete, Straight Walls	**346.00 CY**	**1,749**	**190,552**	**185,164**		**6,467**		**1,104.57 /CY**	**382,183**	**1,631.21 /CY**	**564,400**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			03.00.104		**Dunnigan - TCC Intake Structure, Elevated Slab**											
				03.10.10.16	**Cast-In-Place Concrete, Elevated Decks, 16" thick**											
					Slab shoring	6,834.00 cf	48	5,183	342	-	-	-	0.81 /cf	5,525	1.17 /cf	7,989

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.10.16	Cast-In-Place Concrete, Elevated Decks, 16" thick											
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	710.00 sf	61	6,485	944	-	-	-	10.46 /sf	7,429	15.18 /sf	10,779
					C.I.P. concrete forms, elevated slab, edge forms, 7" to 12" high, 3 use, includes shoring, erecting, bracing, stripping and cleaning	358.00 sfca	52	5,391	465	-	-	-	16.36 /sfca	5,856	23.68 /sfca	8,476
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.75 ton	28	3,276	2,625	-	-	-	3,372.03 /ton	5,901	4,970.06 /ton	8,698
					Reinforcing in place, unloading & sorting, add to above - decks	1.75 ton	1	117	-	-	41	-	89.94 /ton	157	129.67 /ton	227
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	21.00 cy		-	4,620	-	-	-	220.00 /cy	4,620	333.11 /cy	6,995
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	20.00 CY	7	681	-	-	100	-	39.05 /CY	781	56.30 /CY	1,126
					Finishing elev slab, bull float, manual float & manual steel trowel	402.00 sf	8	696	-	-	-	-	1.73 /sf	696	2.50 /sf	1,003
					Curing, sprayed membrane curing compound, elevated decks	4.02 csf	1	62	50	-	-	-	27.78 /csf	112	40.95 /csf	165
					03.10.10.16 Cast-In-Place Concrete, Elevated Decks, 16" thick	**20.00 CY**	**205**	**21,890**	**9,046**		**141**		**1,553.84 /CY**	**31,077**	**2,272.89 /CY**	**45,458**
					03.00.104 Dunnigan - TCC Intake Structure, Elevated Slab	**20.00 CY**	**205**	**21,890**	**9,046**		**141**		**1,553.84 /CY**	**31,077**	**2,272.89 /CY**	**45,458**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**20.00 CY**	**205**	**21,890**	**9,046**		**141**		**1,553.84 /CY**	**31,077**	**2,272.89 /CY**	**45,458**
		03.60			**Concrete Miscellaneous**											
			03.00.206		**Dunnigan - TCC Intake Structure, Slope Concrete Fill**											
				03.10.16.00	Cast-In-Place Concrete, Fill/Topping/Grouting											
					Concrete surface treatment, bonding agent, epoxy resin, 80 S.F. per gallon, 4 gallon case, includes material only	9.30 gal		-	874	-	-	-	94.00 /gal	874	142.33 /gal	1,324
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	66.00 cy		-	14,520	-	-	-	220.00 /cy	14,520	333.11 /cy	21,986
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	64.00 CY	67	6,395	-	-	836	-	112.98 /CY	7,231	162.88 /CY	10,424
					Concrete finishng,floors,basic finishng for unspecfd flatwork,bull float,manual float&manual steel trowel,excludes placing,striking off&consolidating	180.00 sf	9	859	-	-	-	-	4.77 /sf	859	6.88 /sf	1,238
					Profile Concrete for Fill	741.00 sf	36	3,451	-	-	236	-	4.98 /sf	3,687	7.17 /sf	5,316
					Curing, sprayed membrane curing compound	1.80 csf	0	28	29	-	-	-	31.33 /csf	56	46.31 /csf	83
					03.10.16.00 Cast-In-Place Concrete, Fill/Topping/Grouting	**64.00 CY**	**112**	**10,732**	**15,423**		**1,072**		**425.42 /CY**	**27,227**	**630.78 /CY**	**40,370**
					03.00.206 Dunnigan - TCC Intake Structure, Slope Concrete Fill	**64.00 CY**	**112**	**10,732**	**15,423**		**1,072**		**425.42 /CY**	**27,227**	**630.78 /CY**	**40,370**
					03.60 Concrete Miscellaneous	**64.00 CY**	**112**	**10,732**	**15,423**		**1,072**		**425.42 /CY**	**27,227**	**630.78 /CY**	**40,370**
					03.0 Concrete Work	**762.00 CY**	**2,778**	**301,965**	**329,397**		**10,579**		**842.44 /CY**	**641,941**	**1,245.85 /CY**	**949,339**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.004		**Dunnigan - TCC Intake Structure, Grating and Structural Supports**											
				05.50.05.00	Metals, Gratings											
					Structural steel member, W6x12, A992 steel, shop fabricated, incl shop primer, bolted connections	59.00 lf	6	684	1,593	-	270	-	43.17 /lf	2,547	64.19 /lf	3,787
					Structural steel member W8x21, A992 steel, shop fabricated, incl shop primer, bolted connections	64.00 lf	6	742	2,432	-	293	-	54.17 /lf	3,467	80.85 /lf	5,174
					Structural steel member, W12x26, A992 steel, shop fabricated, incl shop primer, bolted connections	152.00 lf	10	1,202	7,144	-	474	-	58.02 /lf	8,820	87.06 /lf	13,233
					Grating frame, perimeter, field fabricated	270.00 lf	31	3,827	1,364	-	-	-	19.22 /lf	5,190	28.08 /lf	7,582
					Grating frame, Perimeter, for each corner, add	14.00 ea		-	68	-	-	-	4.89 /ea	68	7.40 /ea	104
					Floor grating, steel, galvy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	1,094.00 SF	136	16,914	52,512	-	6,669	-	69.56 /SF	76,095	103.76 /SF	113,511
					05.50.05.00 Metals, Gratings	**1,094.00 SF**	**188**	**23,369**	**65,113**		**7,706**		**87.92 /SF**	**96,187**	**131.07 /SF**	**143,390**
					05.00.004 Dunnigan - TCC Intake Structure, Grating and Structural Supports	**1,094.00 SF**	**188**	**23,369**	**65,113**		**7,706**		**87.92 /SF**	**96,187**	**131.07 /SF**	**143,390**
			05.00.006		**Dunnigan - TCC Intake Structure, Trash Racks**											
				05.00.99.00	Metals, Other											
					Structural steel member, W10x39, A992 steel, shop fabricated, incl shop primer, bolted connections	32.00 lf	48	5,963	2,832	-	686	-	296.29 /lf	9,481	433.57 /lf	13,874
					1/2" x 4" Epoxy Coated Trash Rack Bars	3,000.00 lf	240	29,987	45,000	-	1,125	-	25.37 /lf	76,112	37.66 /lf	112,990
					Touchup Epoxy Coating	1.00 ls	32	3,969	4,000	-	1,040	-	9,008.58 /ls	9,009	13,277.26 /ls	13,277
					Miscellaneous Items and Consumables Allowance	1.00 ls		6,000	8,000	-	2,000	-	16,000.00 /ls	16,000	23,646.48 /ls	23,646
					05.00.99.00 Metals, Other	***1.00* LS**	**320**	**45,919**	**59,832**		**4,851**		**110,601.98 /LS**	**110,602**	**163,787.67 /LS**	**163,788**
					05.00.006 Dunnigan - TCC Intake Structure, Trash Racks	***1.00* LS**	**320**	**45,919**	**59,832**		**4,851**		**110,601.98 /LS**	**110,602**	**163,787.67 /LS**	**163,788**
			05.00.008		**Dunnigan - TCC Intake Structure, Vehicle Guardrail**											
				05.00.99.00	Metals, Other											
					Vehicle guide rails, corrugated steel, galvanized steel posts, steel posts 6'-3" O.C, 6" x 8" posts	102.00 LF	32	3,263	3,570	-	278	-	69.72 /LF	7,111	103.05 /LF	10,511
					Vehicle guide rails, corrugated steel, galvanized steel posts, install anchorage units	21.00 ea	24	2,448	17,850	-	278	-	979.79 /ea	20,576	1,474.14 /ea	30,957
					Vehicle guide rails, corrugated steel, galvanized steel posts, install end section, flared	2.00 ea	4	364	240	-	100	-	351.85 /ea	704	515.95 /ea	1,032
					Miscellaneous Items and Consumables Allowance	1.00 ls		1,500	2,500	-	1,000	-	5,000.00 /ls	5,000	7,389.53 /ls	7,390
					05.00.99.00 Metals, Other	***1.00* LS**	**60**	**7,575**	**24,160**		**1,656**		**33,390.58 /LS**	**33,391**	**49,889.29 /LS**	**49,889**
					05.00.008 Dunnigan - TCC Intake Structure, Vehicle Guardrail	**102.00 LF**	**60**	**7,575**	**24,160**		**1,656**		**327.36 /LF**	**33,391**	**489.11 /LF**	**49,889**
			05.00.010		**Dunnigan - TCC Intake Structure, Hand Rail**											
				05.00.99.00	Metals, Other											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	44.00 LF	9	1,100	2,750	-	41	-	88.43 /LF	3,891	132.01 /LF	5,809
					Miscellaneous Items and Consumables Allowance	1.00 ls		500	500	-	-	-	1,000.00 /ls	1,000	1,477.91 /ls	1,478
					05.00.99.00 Metals, Other	***1.00* LS**	**9**	**1,600**	**3,250**		**41**		**4,890.78 /LS**	**4,891**	**7,286.44 /LS**	**7,286**
					05.00.010 Dunnigan - TCC Intake Structure, Hand Rail	**44.00 LF**	**9**	**1,600**	**3,250**		**41**		**111.15 /LF**	**4,891**	**165.60 /LF**	**7,286**
					05.00 Metals	***1.00* LS**	**577**	**78,462**	**152,355**		**14,254**		**245,070.82 /LS**	**245,071**	**364,353.24 /LS**	**364,353**
					05.0 Metals	***1.00* LS**	**577**	**78,462**	**152,355**		**14,254**		**245,070.82 /LS**	**245,071**	**364,353.24 /LS**	**364,353**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.00.100		**Dunnigan - TCC Intake Structure, Electrical**											
				26.00.99.00	Electrical, Other											
					Electrical Fitout, Conduit, Conductors, Connections, and Appurtenances	1.00 ls	160	16,691	30,000	-	2,800	-	49,490.72 /ls	49,491	63,625.38 /ls	63,625
					Panelboards, 5100-PNL-501	1.00 ea	16	1,669	2,500	-	-	-	4,169.07 /ea	4,169	5,357.80 /ea	5,358

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				26.00.99.00	Electrical, Other											
					Miscellaneous Items and Consumables Allowance	1.00 ls		3,000	6,000	-	3,000	-	12,000.00 /ls	12,000	15,334.85 /ls	15,335
					26.00.99.00 Electrical, Other	1.00 LS	176	21,360	38,500		5,800		65,659.79 /LS	65,660	84,318.03 /LS	84,318
					26.00.100 Dunnigan - TCC Intake Structure, Electrical	**1.00 LS**	**176**	**21,360**	**38,500**		**5,800**		**65,659.79 /LS**	**65,660**	**84,318.03 /LS**	**84,318**
					26.00 Electrical	1.00 LS	176	21,360	38,500		5,800		65,659.79 /LS	65,660	84,318.03 /LS	84,318
					26.0 Electrical Work	1.00 LS	176	21,360	38,500		5,800		65,659.79 /LS	65,660	84,318.03 /LS	84,318
	31.0				Earthwork											
		31.25			Earthworks, Structural											
			31.00.100		**Dunnigan - TCC Intake Structure, Excavation and Backfill**											
				31.25.01.00	Earthworks, Structural, Excavation											
					Structural Excavation, excludes sheeting or dewatering	4,740.00 CY	158	17,477	-	-	16,959	-	7.26 /CY	34,435	9.02 /CY	42,757
					Stockpile Excavated Spoils	3,630.00 cy	54	6,190	908	-	5,491	-	3.47 /cy	12,589	4.32 /cy	15,697
					31.25.01.00 Earthworks, Structural, Excavation	4,740.00 CY	212	23,667	908		22,450		9.92 /CY	47,024	12.33 /CY	58,454
				31.25.02.00	Earthworks, Structural, Import Aggregates (Slab)											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	153.00 CY	33	3,239	5,355	-	204	-	57.50 /CY	8,798	73.93 /CY	11,312
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	153.00 CY	33	3,239	5,355		204		57.50 /CY	8,798	73.93 /CY	11,312
				31.25.03.00	Earthworks, Structural, Backfill											
					Backfill, Native material	3,630.00 CY	272	30,951	0	-	6,864	-	10.42 /CY	37,815	12.93 /CY	46,953
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	2,630.00 cy	26	2,990	-	-	1,711	-	1.79 /cy	4,701	2.22 /cy	5,837
					Compaction, 4 passes, 13" to 18", 8" lifts, rammer tamper	1,000.00 cy	21	1,867	-	-	230	-	2.10 /cy	2,097	2.60 /cy	2,603
					Compaction, water for, 6000 gallon wagon, 6 mile haul	3,630.00 cy	18	1,800	4,356	-	1,178	-	2.02 /cy	7,334	2.60 /cy	9,423
					31.25.03.00 Earthworks, Structural, Backfill	3,630.00 CY	337	37,608	4,356		9,983		14.31 /CY	51,947	17.86 /CY	64,816
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling and disposal, excavated spoils, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	1,110.00 CY	114	11,291	11,100	-	10,374	-	29.52 /CY	32,765	37.38 /CY	41,487
					Load excavated spoils	1,110.00 cy	14	1,577		-	1,399	-	2.68 /cy	2,977	3.33 /cy	3,696
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	1,110.00 CY	128	12,869	11,100		11,773		32.20 /CY	35,741	40.71 /CY	45,183
					31.00.100 Dunnigan - TCC Intake Structure, Excavation and Backfill	**9,633.00 CY**	**711**	**77,382**	**21,719**		**44,410**		**14.90 /CY**	**143,511**	**18.66 /CY**	**179,765**
					31.25 Earthworks, Structural	9,633.00 CY	711	77,382	21,719		44,410		14.90 /CY	143,511	18.66 /CY	179,765
					31.0 Earthwork	9,633.00 CY	711	77,382	21,719		44,410		14.90 /CY	143,511	18.66 /CY	179,765
	32.0				Exterior Improvements											
		31.20			Earthworks, Site											
			32.00.002		**Dunnigan - TCC Intake Structure, Grading and Seeding**											
				32.40.11.02	Site Improvements, Other											
					Final Grading, Includes O&M Road and Drainage Swale Grading	14,400.00 SY	230	24,887	-	-	16,028	-	2.84 /SY	40,914	3.53 /SY	50,801
					32.40.11.02 Site Improvements, Other	14,400.00 SY	230	24,887			16,028		2.84 /SY	40,914	3.53 /SY	50,801
					32.00.002 Dunnigan - TCC Intake Structure, Grading and Seeding	**14,400.00 SY**	**230**	**24,887**			**16,028**		**2.84 /SY**	**40,914**	**3.53 /SY**	**50,801**
					31.20 Earthworks, Site	1.00 LS	230	24,887			16,028		40,914.21 /LS	40,914	50,801.32 /LS	50,801
		31.35			Site Landscaping											
			32.00.002		**Dunnigan - TCC Intake Structure, Grading and Seeding**											
				32.40.11.02	Site Improvements, Other											
					Topsoil placement and grading, loam or topsoil, fine grading for seeding, with equipment	14,400.00 sy	691	67,064	28,800	-	4,072	-	6.94 /sy	99,935	8.76 /sy	126,173
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	14,400.00 SY	286	30,011	31,968	-	13,173	-	5.22 /SY	75,152	6.64 /SY	95,630
					32.40.11.02 Site Improvements, Other	14,400.00 SY	977	97,074	60,768		17,245		12.16 /SY	175,087	15.40 /SY	221,803
					32.00.002 Dunnigan - TCC Intake Structure, Grading and Seeding	**14,400.00 SY**	**977**	**97,074**	**60,768**		**17,245**		**12.16 /SY**	**175,087**	**15.40 /SY**	**221,803**
					31.35 Site Landscaping	1.00 LS	977	97,074	60,768		17,245		175,086.82 /LS	175,087	221,803.03 /LS	221,803
		32.12			Paving											
			32.00.000		**Dunnigan - TCC Intake Structure, Gravel Surfacing**											
				32.40.04.00	Site Improvements, Gravel Surfacing											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	1,227.00 SY	10	1,060	-	-	683	-	1.42 /SY	1,743	1.76 /SY	2,164
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,12"deep	1,227.00 sy	21	2,263	24,295	-	1,602	-	22.95 /sy	28,159	29.93 /sy	36,726
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	1,227.00 sy	8	957	-	-	580	-	1.25 /sy	1,536	1.55 /sy	1,907
					32.40.04.00 Site Improvements, Gravel Surfacing	1,227.00 SY	39	4,280	24,295		2,865		25.62 /SY	31,439	33.25 /SY	40,797
					32.00.000 Dunnigan - TCC Intake Structure, Gravel Surfacing	**1,227.00 SY**	**39**	**4,280**	**24,295**		**2,865**		**25.62 /SY**	**31,439**	**33.25 /SY**	**40,797**
					32.12 Paving	1,227.00 SY	39	4,280	24,295		2,865		25.62 /SY	31,439	33.25 /SY	40,797
					32.0 Exterior Improvements	1.00 LS	1,246	126,240	85,063		36,137		247,439.64 /LS	247,440	313,401.63 /LS	313,402
	40.3				Water Control Gates											
		40.51			Water Control Gates, Slide/Weir Gates											
			40.00.100		**Dunnigan - TCC Intake Structure, Water Control Gates**											
				40.30.03.96	Slide or Weir Gate, Rectangular, 96"											
					Furnish 96" Slide Gates	4.00 EA			560,000	-	-	-	140,000.00 /EA	560,000	183,981.65 /EA	735,927
					Install 96" Slide Gates	4.00 ea	576	62,404	40,000	-	8,241	-	27,661.34 /ea	110,645	35,070.83 /ea	140,283
					40.30.03.96 Slide or Weir Gate, Rectangular, 96"	4.00 EA	576	62,404	600,000		8,241		167,661.34 /EA	670,645	219,052.48 /EA	876,210
					40.00.100 Dunnigan - TCC Intake Structure, Water Control Gates	**4.00 EA**	**576**	**62,404**	**600,000**		**8,241**		**167,661.34 /EA**	**670,645**	**219,052.48 /EA**	**876,210**
					40.51 Water Control Gates, Slide/Weir Gates	4.00 EA	576	62,404	600,000		8,241		167,661.34 /EA	670,645	219,052.48 /EA	876,210
					40.3 Water Control Gates	4.00 EA	576	62,404	600,000		8,241		167,661.34 /EA	670,645	219,052.48 /EA	876,210
	40.9				Instrumentation & Controls											
		40.90			Instrumentation & Controls											
			40.90.100		**Dunnigan - TCC Intake Structure, I&C**											
				40.90.99.01	I&C, Other											
					Radar Level Sensors	2.00 ea	32	3,338	7,000	-	560	-	5,449.07 /ea	10,898	7,019.62 /ea	14,039
					RTU and Communication Allowance	1.00 ls	32	3,338	10,000	-	560	-	13,898.14 /ls	13,898	17,981.70 /ls	17,982
					I&C Miscellaneous Items and Consumables Allowance	1.00 ls	16	1,669	2,500	-	280	-	4,449.07 /ls	4,449	5,705.45 /ls	5,705
					40.90.99.01 I&C, Other	1.00 LS	80	8,345	19,500		1,400		29,245.35 /LS	29,245	37,726.38 /LS	37,726
					40.90.100 Dunnigan - TCC Intake Structure, I&C	**1.00 LS**	**80**	**8,345**	**19,500**		**1,400**		**29,245.35 /LS**	**29,245**	**37,726.38 /LS**	**37,726**
					40.90 Instrumentation & Controls	1.00 LS	80	8,345	19,500		1,400		29,245.35 /LS	29,245	37,726.38 /LS	37,726
					40.9 Instrumentation & Controls	1.00 LS	80	8,345	19,500		1,400		29,245.35 /LS	29,245	37,726.38 /LS	37,726

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					5100 Dunnigan - TCC Intake Structure	**2,894.00 SF**	**6,277**	**690,000**	**1,251,893**		**122,486**		**713.33 /SF**	**2,064,379**	**978.37 /SF**	**2,831,411**
5200					**Dunnigan - CBD Discharge Structure**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.00.200		**Dunnigan - CBD Discharge Structure, Removal and Control of Water**											
				31.15.02.00	Dewatering											
					CBD Discharge Structure, Removal and Control of Water	4.00 MO				180,000	-	-	45,000.00 /MO	180,000	55,874.46 /MO	223,498
					31.15.02.00 Dewatering	4.00 MO				180,000			45,000.00 /MO	180,000	55,874.46 /MO	223,498
					01.00.200 Dunnigan - CBD Discharge Structure, Removal and Control of Water	**4.00 MO**				**180,000**			**45,000.00 /MO**	**180,000**	**55,874.46 /MO**	**223,498**
					01.01 Construction Operations	4.00 MO				180,000			45,000.00 /MO	180,000	55,874.46 /MO	223,498
					01.0 General Requirements	4.00 MO				180,000			45,000.00 /MO	180,000	55,874.46 /MO	223,498
	02.0				Existing Conditions											
		02.40			Demolition											
			02.00.200		**Dunnigan - CBD Discharge Structure, Partial Demolition of Existing Canal Lining**											
				02.01.01.00	General Site Demolition											
					Partial Demolition of Existing Canal Lining	1,218.00 SF	24	2,444	***1,000***	-	283	-	3.06 /SF	3,727	3.86 /SF	4,700
					Hauling and disposal, demolished material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	30.00 cy	3	305	450	-	280	-	34.52 /cy	1,036	43.95 /cy	1,318
					Load excavated spoils	30.00 cy	0	43		-	38	-	2.68 /cy	80	3.33 /cy	100
					02.01.01.00 General Site Demolition	1,218.00 SF	27	2,792	1,450		601		3.98 /SF	4,843	5.02 /SF	6,118
					02.00.200 Dunnigan - CBD Discharge Structure, Partial Demolition of Existing Canal Lining	**1,218.00 SF**	**27**	**2,792**	**1,450**		**601**		**3.98 /SF**	**4,843**	**5.02 /SF**	**6,118**
					02.40 Demolition	1,218.00 SF	27	2,792	1,450		601		3.98 /SF	4,843	5.02 /SF	6,118
					02.0 Existing Conditions	1,218.00 SF	27	2,792	1,450		601		3.98 /SF	4,843	5.02 /SF	6,118
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.00.106		**Dunnigan - CBD Discharge Structure, Foundation Slab**											
				03.10.05.24	Cast-In-Place Concrete, Slabs on Grade, 24" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	578.00 sfca	54	5,617	561	-	-	-	10.69 /sfca	6,177	15.48 /sfca	8,946
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	33.00 ton	528	61,777	49,500	-	-	-	3,372.03 /ton	111,277	4,970.06 /ton	164,012
					Reinforcing in place, unloading & sorting, add to above - slabs	33.00 ton	18	2,203	-	-	765	-	89.94 /ton	2,968	129.67 /ton	4,279
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	388.00 cy		-	85,360	-	-	-	220.00 /cy	85,360	333.11 /cy	129,248
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	376.00 CY	130	12,455	-	-	1,832	-	38.00 /CY	14,287	54.78 /CY	20,597
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	5,070.00 sf	71	6,473	-	-	258	-	1.33 /sf	6,731	1.91 /sf	9,703
					Curing, sprayed membrane curing compound	50.70 csf	9	777	631	-	-	-	27.78 /csf	1,408	40.95 /csf	2,076
					Fine grading, fine grade for slab on grade, machine	563.33 sy	9	936	-	-	603	-	2.73 /sy	1,539	3.94 /sy	2,219
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	376.00 CY	818	90,237	136,052		3,458		611.03 /CY	229,747	907.13 /CY	341,080
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	807.00 sfca	75	7,842	783	-	-	-	10.69 /sfca	8,625	15.48 /sfca	12,490
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	40.50 ton	648	75,817	60,750	-	-	-	3,372.03 /ton	136,567	4,970.06 /ton	201,287
					Reinforcing in place, unloading & sorting, add to above - slabs	40.50 ton	23	2,704	-	-	939	-	89.94 /ton	3,643	129.67 /ton	5,252
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	476.00 cy		-	104,720	-	-	-	220.00 /cy	104,720	333.11 /cy	158,562
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	462.00 CY	160	15,303	-	-	2,251	-	38.00 /CY	17,555	54.78 /CY	25,308
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	4,152.00 sf	58	5,301	-	-	211	-	1.33 /sf	5,512	1.91 /sf	7,946
					Curing, sprayed membrane curing compound	41.52 csf	7	636	517	-	-	-	27.78 /csf	1,153	40.95 /csf	1,700
					Fine grading, fine grade for slab on grade, machine	461.33 sy	7	767	-	-	494	-	2.73 /sy	1,260	3.94 /sy	1,817
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	462.00 CY	978	108,370	166,770		3,896		603.97 /CY	279,035	896.89 /CY	414,363
					03.00.106 Dunnigan - CBD Discharge Structure, Foundation Slab	**838.00 CY**	**1,796**	**198,606**	**302,822**		**7,354**		**607.14 /CY**	**508,782**	**901.48 /CY**	**755,443**
			03.00.110		**Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls**											
				03.10.05.24	Cast-In-Place Concrete, Slabs on Grade, 24" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	534.00 sfca	50	5,189	518	-	-	-	10.69 /sfca	5,707	15.48 /sfca	8,265
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	21.10 ton	338	39,500	31,650	-	-	-	3,372.03 /ton	71,150	4,970.06 /ton	104,868
					Reinforcing in place, unloading & sorting, add to above - slabs	21.10 ton	12	1,409	-	-	489	-	89.94 /ton	1,898	129.67 /ton	2,736
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	248.00 cy		-	54,560	-	-	-	220.00 /cy	54,560	333.11 /cy	82,612
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	241.00 CY	83	7,983	-	-	1,174	-	38.00 /CY	9,157	54.78 /CY	13,202
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	3,060.00 sf	43	3,907	-	-	156	-	1.33 /sf	4,062	1.91 /sf	5,856
					Curing, sprayed membrane curing compound	30.60 csf	5	469	381	-	-	-	27.78 /csf	850	40.95 /csf	1,253
					Fine grading, fine grade for slab on grade, machine	340.00 sy	5	565	-	-	364	-	2.73 /sy	929	3.94 /sy	1,339
					03.10.05.24 Cast-In-Place Concrete, Slabs on Grade, 24" thick	241.00 CY	536	59,021	87,109		2,183		615.41 /CY	148,313	913.41 /CY	220,132
					03.00.110 Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls	**241.00 CY**	**536**	**59,021**	**87,109**		**2,183**		**615.41 /CY**	**148,313**	**913.41 /CY**	**220,132**
					03.18 Cast-In-Place Concrete, Slabs on Grade	1,079.00 CY	2,332	257,627	389,931		9,537		608.99 /CY	657,095	904.15 /CY	975,574
		03.20			Cast-In-Place Concrete, Straight Walls											
			03.00.108		**Dunnigan - CBD Discharge Structure, Concrete Walls**											
				03.10.06.24	Cast-In-Place Concrete, Straight Walls, 24" thick											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.06.24	**Cast-In-Place Concrete, Straight Walls, 24" thick**											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	7,381.00 sfca	779	82,972	40,226	-	-	-	16.69 /sfca	123,199	24.46 /sfca	180,526
					Form oil, coverage varies greatly, maximum, includes material only	19.70 gal		-	463	-	-	-	23.50 /gal	463	35.58 /gal	701
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	24.80 ton	397	46,426	37,200	-	-	-	3,372.03 /ton	83,626	4,970.06 /ton	123,257
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	24.80 ton	14	1,656	-	-	575	-	89.94 /ton	2,231	129.67 /ton	3,216
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	24.80 ton	15	1,800	-	-	625	-	97.76 /ton	2,425	140.94 /ton	3,495
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	283.00 cy		-	62,260	-	-	-	220.00 /cy	62,260	333.11 /cy	94,271
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	274.00 CY	146	13,992	-	-	2,058	-	58.58 /CY	16,051	84.45 /CY	23,139
					Finishing: break ties & patch voids (walls, cols or beams)	7,381.00 sf	109	9,985	221	-	-	-	1.38 /sf	10,206	2.00 /sf	14,730
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	**274.00 CY**	**1,460**	**156,831**	**140,371**		**3,259**		**1,096.57 /CY**	**300,460**	**1,618.02 /CY**	**443,337**
				03.10.06.42	**Cast-In-Place Concrete, Straight Walls, 42" thick**											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	13,822.00 sfca	1,458	155,378	75,330	-	-	-	16.69 /sfca	230,708	24.46 /sfca	338,062
					Form oil, coverage varies greatly, maximum, includes material only	37.00 gal		-	870	-	-	-	23.50 /gal	870	35.58 /gal	1,317
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	70.00 ton	1,120	131,042	105,000	-	-	-	3,372.03 /ton	236,042	4,970.06 /ton	347,904
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	70.00 ton	39	4,673	-	-	1,623	-	89.94 /ton	6,296	129.67 /ton	9,077
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	70.00 ton	43	5,079	-	-	1,764	-	97.76 /ton	6,844	140.94 /ton	9,866
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	923.00 cy		-	203,060	-	-	-	220.00 /cy	203,060	333.11 /cy	307,464
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	896.00 CY	478	45,755	-	-	6,731	-	58.58 /CY	52,487	84.45 /CY	75,667
					Finishing: break ties & patch voids (walls, cols or beams)	13,822.00 sf	205	18,698	415	-	-	-	1.38 /sf	19,113	2.00 /sf	27,584
					1/2" thick SST Wear Plates, Embeded in Concrete Wall Bases	2,240.00 sf	280	34,984	280,000	-	1,313	-	141.20 /sf	316,297	212.63 /sf	476,292
					03.10.06.42 Cast-In-Place Concrete, Straight Walls, 42" thick	**896.00 CY**	**3,622**	**395,610**	**664,674**		**11,432**		**1,196.11 /CY**	**1,071,716**	**1,778.16 /CY**	**1,593,233**
					03.00.108 Dunnigan - CBD Discharge Structure, Concrete Walls	**1,170.00 CY**	**5,082**	**552,440**	**805,045**		**14,690**		**1,172.80 /CY**	**1,372,176**	**1,740.66 /CY**	**2,036,569**
			03.00.110		**Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls**											
				03.10.06.99	**Cast-In-Place Concrete, Straight Walls, Other**											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	936.00 sfca	99	10,576	5,101	-	-	-	16.75 /sfca	15,678	24.54 /sfca	22,971
					Form oil, coverage varies greatly, maximum, includes material only	2.50 gal		-	59	-	-	-	23.50 /gal	59	35.58 /gal	89
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2.30 ton	37	4,306	3,450	-	-	-	3,372.03 /ton	7,756	4,970.05 /ton	11,431
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	2.30 ton	1	154	-	-	53	-	89.94 /ton	207	129.67 /ton	298
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	2.30 ton	1	167	-	-	58	-	97.77 /ton	225	140.95 /ton	324
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	27.00 cy		-	5,940	-	-	-	220.00 /cy	5,940	333.11 /cy	8,994
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	26.00 CY	14	1,328	-	-	195	-	58.58 /CY	1,523	84.45 /CY	2,196
					Finishing: break ties & patch voids (walls, cols or beams)	936.00 sf	14	1,266	28	-	-	-	1.38 /sf	1,294	2.00 /sf	1,868
					03.10.06.99 Cast-In-Place Concrete, Straight Walls, Other	**26.00 CY**	**166**	**17,796**	**14,578**		**307**		**1,256.96 /CY**	**32,681**	**1,852.76 /CY**	**48,172**
					03.00.110 Dunnigan - CBD Discharge Structure, Discharge Slab and Wing Walls	**26.00 CY**	**166**	**17,796**	**14,578**		**307**		**1,256.96 /CY**	**32,681**	**1,852.76 /CY**	**48,172**
					03.20 Cast-In-Place Concrete, Straight Walls	**1,196.00 CY**	**5,249**	**570,237**	**819,623**		**14,997**		**1,174.63 /CY**	**1,404,857**	**1,743.09 /CY**	**2,084,741**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			03.00.112		**Dunnigan - CBD Discharge Structure, Elevated Slab and Beams**											
				03.10.10.12	**Cast-In-Place Concrete, Elevated Decks, 12" thick**											
					Slab shoring	77,805.00 cf	545	59,006	3,890	-	-	-	0.81 /cf	62,897	1.17 /cf	90,957
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	4,951.00 sf	424	45,222	6,585	-	-	-	10.46 /sf	51,807	15.18 /sf	75,165
					C.I.P. concrete forms, elevated slab, edge forms, 7" to 12" high, 3 use, includes shoring, erecting, bracing, stripping and cleaning	284.00 sfca	41	4,276	369	-	-	-	16.36 /sfca	4,645	23.68 /sfca	6,724
					C.I.P. concrete forms, elevated slab, blockout forms, 7" to 12" high, 3 use, includes shoring, erecting, bracing, stripping and cleaning	296.00 sfca	43	4,457	385	-	-	-	16.36 /sfca	4,842	23.68 /sfca	7,008
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	13.30 ton	213	24,898	19,950	-	-	-	3,372.03 /ton	44,848	4,970.06 /ton	66,102
					Reinforcing in place, unloading & sorting, add to above - decks	13.30 ton	7	888	-	-	308	-	89.94 /ton	1,196	129.67 /ton	1,725
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	157.00 cy		-	34,540	-	-	-	220.00 /cy	34,540	333.11 /cy	52,299
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	152.00 CY	54	5,175	-	-	761	-	39.05 /CY	5,936	56.30 /CY	8,558
					Finishing elev slab, bull float, manual float & manual steel trowel	4,095.00 sf	78	7,088	-	-	-	-	1.73 /sf	7,088	2.50 /sf	10,218
					Curing, sprayed membrane curing compound, elevated decks	40.95 csf	7	628	510	-	-	-	27.78 /csf	1,137	40.95 /csf	1,677
					03.10.10.12 Cast-In-Place Concrete, Elevated Decks, 12" thick	**152.00 CY**	**1,411**	**151,638**	**66,229**		**1,070**		**1,440.37 /CY**	**218,936**	**2,108.10 /CY**	**320,432**
				03.10.11.24	**Cast-In-Place Concrete, Elevated Beams, 24" x 48"**											
					C.I.P. concrete forms, beams and girders, interior, plywood, 24" wide, 4 use, includes shoring, erecting, bracing, stripping and cleaning	2,240.00 sfca	272	29,007	3,427	-	-	-	14.48 /sfca	32,434	20.99 /sfca	47,007
					Shores, horizontal members, joists and stringers, aluminum, includes erect and strip by hand	64.00 ea	17	1,859	-	-	-	-	29.05 /ea	1,859	41.88 /ea	2,681
					Shores, horizontal members, adjustable beam, steel, includes erect and strip by hand	40.00 ea	14	1,549	-	-	-	-	38.74 /ea	1,549	55.85 /ea	2,234
					Shores, vertical members, to 13' high, includes erect and strip by hand	52.00 ea	17	1,813	-	-	-	-	34.86 /ea	1,813	50.26 /ea	2,614
					Shores, reshoring	448.00 sf	5	558	108	-	-	-	1.49 /sf	665	2.16 /sf	967
					Shores, horizontal, rent for job duration, aluminum joists, @ 2' O.C., per mo.	448.00 flr		-	318	-	-	-	0.71 /flr	318	1.08 /flr	482
					Form oil, coverage varies greatly, maximum, includes material only	5.97 gal		-	164	-	-	-	27.50 /gal	164	41.64 /gal	249
					Reinforcing Steel, in place, beams and girders, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	5.80 ton	93	10,858	8,700	-	-	-	3,372.03 /ton	19,558	4,970.05 /ton	28,826
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	5.80 ton	3	387	-	-	134	-	89.94 /ton	522	129.67 /ton	752
					Reinforcing, crane cost for handling, add to above, walls, cols, beams	5.80 ton	4	421	-	-	146	-	97.76 /ton	567	140.94 /ton	817
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	68.00 cy		-	14,960	-	-	-	220.00 /cy	14,960	333.11 /cy	22,652
					Structural concrete, placing, beam, large, elevated, pumped, includes strike off & consolidation, excludes material	66.00 CY	47	4,494	-	-	661	-	78.11 /CY	5,155	112.60 /CY	7,432
					Finishing: break ties & patch voids (walls, cols or beams)	2,240.00 sf	33	3,030	67	-	-	-	1.38 /sf	3,097	2.00 /sf	4,470
					03.10.11.24 Cast-In-Place Concrete, Elevated Beams, 24" x 48"	**66.00 CY**	**505**	**53,976**	**27,744**		**942**		**1,252.46 /CY**	**82,662**	**1,836.09 /CY**	**121,182**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					03.00.112 Dunnigan - CBD Discharge Structure, Elevated Slab and Beams	**218.00 CY**	**1,916**	**205,614**	**93,973**		**2,011**		**1,383.48 /CY**	**301,598**	**2,025.75 /CY**	**441,614**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**218.00 CY**	**1,916**	**205,614**	**93,973**		**2,011**		**1,383.48 /CY**	**301,598**	**2,025.75 /CY**	**441,614**
					03.0 Concrete Work	**2,493.00 CY**	**9,497**	**1,033,478**	**1,303,527**		**26,546**		**948.07 /CY**	**2,363,550**	**1,404.70 /CY**	**3,501,929**
	05.0				**Metals**											
		05.00			**Metals**											
			05.00.104		**Dunnigan - CBD Discharge Structure, Grating and Structural Supports**											
				05.50.05.00	**Metals, Gratings**											
					Structural steel member, W14x68, A992 steel, shop fabricated, incl shop primer, bolted connections	240.00 lf	32	3,976	32,160	-	2,743	-	162.00 /lf	38,879	243.26 /lf	58,382
					Grating frame, perimeter, field fabricated	260.00 lf	30	3,685	1,313	-	-	-	19.22 /lf	4,998	28.08 /lf	7,301
					Grating frame, Perimeter, for each corner, add	8.00 ea		-	39	-	-	-	4.89 /ea	39	7.40 /ea	59
					Floor grating, steel, galvy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	2,100.00 SF	261	32,468	100,800	-	12,802	-	69.56 /SF	146,070	103.76 /SF	217,890
					05.50.05.00 Metals, Gratings	**2,100.00 SF**	**323**	**40,129**	**134,312**		**15,545**		**90.47 /SF**	**189,986**	**135.06 /SF**	**283,632**
					05.00.104 Dunnigan - CBD Discharge Structure, Grating and Structural Supports	***1.00*** **LS**	**323**	**40,129**	**134,312**		**15,545**		**189,986.07 /LS**	**189,986**	**283,631.95 /LS**	**283,632**
			05.00.106		**Dunnigan - CBD Discharge Structure, Trash Racks**											
				05.00.99.00	**Metals, Other**											
					L4x4x1/2" Frame with Trash Rack Bars	4.00 EA	256	31,986	22,000	-	1,201	-	13,796.56 /EA	55,186	20,288.62 /EA	81,154
					Touchup Epoxy Coating	1.00 ls	32	3,969	4,000	-	1,040	-	9,008.58 /ls	9,009	13,277.28 /ls	13,277
					Miscellaneous Items and Consumables Allowance	1.00 ls		4,000	5,000	-	1,000	-	10,000.00 /ls	10,000	14,779.05 /ls	14,779
					05.00.99.00 Metals, Other	***1.00*** **LS**	**288**	**39,954**	**31,000**		**3,241**		**74,194.82 /LS**	**74,195**	**109,210.81 /LS**	**109,211**
					05.00.106 Dunnigan - CBD Discharge Structure, Trash Racks	**4.00 EA**	**288**	**39,954**	**31,000**		**3,241**		**18,548.71 /EA**	**74,195**	**27,302.70 /EA**	**109,211**
			05.00.108		**Dunnigan - CBD Discharge Structure, Handrail**											
				05.00.99.00	**Metals, Other**											
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	280.00 LF	56	6,997	17,500	-	263	-	88.43 /LF	24,759	132.01 /LF	36,963
					Miscellaneous Items and Consumables Allowance	1.00 ls		2,000	3,000	-	-	-	5,000.00 /ls	5,000	7,425.76 /ls	7,426
					05.00.99.00 Metals, Other	***1.00*** **LS**	**56**	**8,997**	**20,500**		**263**		**29,759.47 /LS**	**29,759**	**44,389.11 /LS**	**44,389**
					05.00.108 Dunnigan - CBD Discharge Structure, Handrail	**280.00 LF**	**56**	**8,997**	**20,500**		**263**		**106.28 /LF**	**29,759**	**158.53 /LF**	**44,389**
			05.00.110		**Dunnigan - CBD Discharge Structure, Metal Platforms at Valve Operators**											
				05.50.02.50	**Metals, Elevated Platforms, Complete**											
					Column, structural tubing, 3" x 3" x 1/4", incl shop primer, cap & base plate, bolts	8.00 ea	8	960	2,176	-	378	-	439.25 /ea	3,514	652.98 /ea	5,224
					Structural steel member, W8x31, A992 steel, shop fabricated, incl shop primer, bolted connections	54.00 lf	24	2,982	3,024	-	686	-	123.92 /lf	6,692	182.71 /lf	9,866
					Ladder, shop fabricated, steel, 20" W, bolted to concrete, excl cage	16.00 vlf	16	1,999	1,360	-	38	-	212.29 /vlf	3,397	312.21 /vlf	4,995
					Railing, pipe, steel, galvanized, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	54.00 lf	11	1,349	3,375	-	51	-	88.43 /lf	4,775	132.01 /lf	7,129
					Grating frame, perimeter, field fabricated	54.00 lf	6	765	273	-	-	-	19.22 /lf	1,038	28.08 /lf	1,516
					Grating frame, Perimeter, for each corner, add	8.00 ea		-	39	-	-	-	4.89 /ea	39	7.41 /ea	59
					Floor grating, steel, galvy, 2-1/4" x 3/16" bearing bars @ 1-3/16" O.C., cross bars @ 4" O.C., over 300 S.F., field fabricated from panels	82.00 SF	10	1,268	3,936	-	500	-	69.56 /SF	5,704	103.76 /SF	8,508
					Miscellaneous Items and Consumables Allowance	1.00 ls		2,000	3,000	-	-	-	5,000.00 /ls	5,000	7,425.78 /ls	7,426
					05.50.02.50 Metals, Elevated Platforms, Complete	**82.00 SF**	**75**	**11,323**	**17,183**		**1,652**		**367.78 /SF**	**30,158**	**545.41 /SF**	**44,723**
					05.00.110 Dunnigan - CBD Discharge Structure, Metal Platforms at Valve Operators	***1.00*** **EA**	**75**	**11,323**	**17,183**		**1,652**		**30,158.16 /EA**	**30,158**	**44,723.42 /EA**	**44,723**
			05.00.112		**Dunnigan - CBD Discharge Structure, Access Hatches**											
				08.30.01.10	**Specialty Doors and Frames, Access Doors**											
					Doors, specialty, access, floor, industrial, single leaf, 2.5' x 3.5'	3.00 EA	9	1,082	4,650	-	-	-	1,910.78 /EA	5,732	2,867.06 /EA	8,601
					Doors, specialty, access, floor, industrial, double leaf, 5' x 5'	2.00 EA	7	882	8,850	-	-	-	4,865.96 /EA	9,732	7,335.84 /EA	14,672
					Doors, specialty, access, floor, industrial, aluminum, double leaf, 10' x 11'	2.00 EA	32	3,969	39,000	-	-	-	21,484.29 /EA	42,969	32,386.67 /EA	64,773
					Doors, specialty, access, floor, industrial, double leaf, 14' x 20'	2.00 EA	64	7,937	50,000	-	-	-	28,968.58 /EA	57,937	43,575.18 /EA	87,150
					08.30.01.10 Specialty Doors and Frames, Access Doors	**9.00 EA**	**112**	**13,870**	**102,500**				**12,930.00 /EA**	**116,370**	**19,466.29 /EA**	**175,197**
					05.00.112 Dunnigan - CBD Discharge Structure, Access Hatches	**9.00 EA**	**112**	**13,870**	**102,500**				**12,930.00 /EA**	**116,370**	**19,466.29 /EA**	**175,197**
					05.00 Metals	***1.00*** **LS**	**854**	**114,273**	**305,495**		**20,701**		**440,468.50 /LS**	**440,469**	**657,151.87 /LS**	**657,152**
					05.0 Metals	***1.00*** **LS**	**854**	**114,273**	**305,495**		**20,701**		**440,468.50 /LS**	**440,469**	**657,151.87 /LS**	**657,152**
	26.0				**Electrical Work**											
		26.00			**Electrical**											
			26.00.200		**Dunnigan - CBD Discharge Structure, Electrical**											
				26.00.99.00	**Electrical, Other**											
					Electrical Fitout, Conduit, Conductors, Connections, and Appurtenances	1.00 ls	360	37,554	50,000	-	4,200	-	91,754.29 /ls	91,754	117,552.15 /ls	117,552
					Panelboards, 5200-PNL-501	1.00 ea	24	2,504	4,500	-	-	-	7,003.61 /ea	7,004	9,022.31 /ea	9,022
					Miscellaneous Items and Consumables Allowance	1.00 ls		8,000	10,000	-	2,000	-	20,000.00 /ls	20,000	25,558.09 /ls	25,558
					26.00.99.00 Electrical, Other	***1.00*** **LS**	**384**	**48,058**	**64,500**		**6,200**		**118,757.90 /LS**	**118,758**	**152,132.55 /LS**	**152,133**
					26.00.200 Dunnigan - CBD Discharge Structure, Electrical	***1.00*** **LS**	**384**	**48,058**	**64,500**		**6,200**		**118,757.90 /LS**	**118,758**	**152,132.55 /LS**	**152,133**
					26.00 Electrical	***1.00*** **LS**	**384**	**48,058**	**64,500**		**6,200**		**118,757.90 /LS**	**118,758**	**152,132.55 /LS**	**152,133**
					26.0 Electrical Work	***1.00*** **LS**	**384**	**48,058**	**64,500**		**6,200**		**118,757.90 /LS**	**118,758**	**152,132.55 /LS**	**152,133**
	31.0				**Earthwork**											
		31.25			**Earthworks, Structural**											
			31.00.102		**Dunnigan - CBD Discharge Structure, Excavation and Backfill**											
				31.25.01.00	**Earthworks, Structural, Excavation**											
					Structural Excavation, excludes sheeting or dewatering	14,280.00 CY	476	52,651	-	-	51,091	-	7.26 /CY	103,742	9.02 /CY	128,812
					Stockpile Excavated Spoils	7,240.00 cy	109	12,346	1,810	-	10,952	-	3.47 /cy	25,108	4.32 /cy	31,307
					31.25.01.00 Earthworks, Structural, Excavation	**14,280.00 CY**	**585**	**64,997**	**1,810**		**62,043**		**9.02 /CY**	**128,850**	**11.21 /CY**	**160,119**
				31.25.02.00	**Earthworks, Structural, Import Aggregates (Slab)**											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	524.00 CY	114	11,093	18,340	-	698	-	57.50 /CY	30,131	73.93 /CY	38,742
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	**524.00 CY**	**114**	**11,093**	**18,340**		**698**		**57.50 /CY**	**30,131**	**73.93 /CY**	**38,742**
				31.25.03.00	**Earthworks, Structural, Backfill**											
					Backfill, Native material	7,240.00 CY	543	61,732	0	-	13,690	-	10.42 /CY	75,422	12.93 /CY	93,648
					Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	5,240.00 cy	52	5,957	-	-	3,409	-	1.79 /cy	9,366	2.22 /cy	11,630
					Compaction, 4 passes, 13" to 18", 8" lifts, rammer tamper	2,000.00 cy	41	3,733	-	-	460	-	2.10 /cy	4,193	2.60 /cy	5,207
					Compaction, water for, 6000 gallon wagon, 6 mile haul	7,240.00 cy	36	3,590	8,688	-	2,350	-	2.02 /cy	14,628	2.60 /cy	18,793
					31.25.03.00 Earthworks, Structural, Backfill	**7,240.00 CY**	**673**	**75,013**	**8,688**		**19,909**		**14.31 /CY**	**103,610**	**17.86 /CY**	**129,278**
				31.25.05.00	**Earthworks, Structural, Hauling and Disposal**											

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling and disposal, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	7,040.00 CY	722	71,613	70,400	-	65,792	-	29.52 /CY	207,806	37.38 /CY	263,127
					Load excavated spoils	7,040.00 cy	88	10,004	0	-	8,874	-	2.68 /cy	18,879	3.33 /cy	23,441
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	**7,040.00 CY**	**810**	**81,618**	**70,400**		**74,667**		**32.20 /CY**	**226,684**	**40.71 /CY**	**286,568**
					31.00.102 Dunnigan - CBD Discharge Structure, Excavation and Backfill	**29,084.00 CY**	**2,182**	**232,720**	**99,238**		**157,317**		**16.82 /CY**	**489,275**	**21.14 /CY**	**614,706**
					31.25 Earthworks, Structural	**29,084.00 CY**	**2,182**	**232,720**	**99,238**		**157,317**		**16.82 /CY**	**489,275**	**21.14 /CY**	**614,706**
					31.0 Earthwork	**29,084.00 CY**	**2,182**	**232,720**	**99,238**		**157,317**		**16.82 /CY**	**489,275**	**21.14 /CY**	**614,706**
	32.0				**Exterior Improvements**											
		31.20			**Earthworks, Site**											
			32.00.202		**Dunnigan - CBD Discharge Structure, Grading and Seeding**											
				32.40.11.02	**Site Improvements, Other**											
					Final Grading, Includes O&M Road and Drainage Swale Grading	867.00 SY	14	1,498	-	-	965	-	2.84 /SY	2,463	3.53 /SY	3,059
					32.40.11.02 Site Improvements, Other	**867.00 SY**	**14**	**1,498**			**965**		**2.84 /SY**	**2,463**	**3.53 /SY**	**3,059**
					32.00.202 Dunnigan - CBD Discharge Structure, Grading and Seeding	**867.00 SY**	**14**	**1,498**			**965**		**2.84 /SY**	**2,463**	**3.53 /SY**	**3,059**
					31.20 Earthworks, Site	***1.00*** **LS**	**14**	**1,498**			**965**		**2,463.37 /LS**	**2,463**	**3,058.66 /LS**	**3,059**
		31.30			**Site Specialties**											
			32.00.204		**Dunnigan - CBD Discharge Structure, Rip Rap**											
				31.30.09.00	**Site Specialties, Rip Rap**											
					Fill, gravel fill, compacted, Rip Rap Bedding, alternate pricing method, 9" deep	192.00 CY	46	2,912	7,392	-	281	-	55.14 /CY	10,586	71.25 /CY	13,680
					Geosynthetic soil stabilization, geotextile fabric, non-woven, 120 lb. tensile strength, includes scarifying and compaction	665.00 SY	4	257	845	-	-	-	1.66 /SY	1,102	2.15 /SY	1,429
					Rip-rap and rock lining, random, broken stone, 3/8 to 1/4 C.Y. pieces, machine placed for slope protection, grouted	665.00 sy	466	30,447	67,165	-	19,275	-	175.77 /sy	116,887	225.57 /sy	150,003
					31.30.09.00 Site Specialties, Rip Rap	**192.00 CY**	**516**	**33,617**	**75,402**		**19,556**		**669.66 /CY**	**128,575**	**859.96 /CY**	**165,112**
					32.00.204 Dunnigan - CBD Discharge Structure, Rip Rap	**665.00 SY**	**516**	**33,617**	**75,402**		**19,556**		**193.35 /SY**	**128,575**	**248.29 /SY**	**165,112**
					31.30 Site Specialties	***1.00*** **LS**	**516**	**33,617**	**75,402**		**19,556**		**128,574.68 /LS**	**128,575**	**165,111.96 /LS**	**165,112**
		31.35			**Site Landscaping**											
			32.00.202		**Dunnigan - CBD Discharge Structure, Grading and Seeding**											
				32.40.11.02	**Site Improvements, Other**											
					Topsoil placement and grading, loam or topsoil, fine grading for seeding, with equipment	867.00 sy	42	4,038	1,734	-	245	-	6.94 /sy	6,017	8.76 /sy	7,597
					Seeding, mechanical seeding hydro or air seeding for large areas, includes lime, fertilizer and seed with wood fiber mulch added	867.00 SY	17	1,807	1,925	-	793	-	5.22 /SY	4,525	6.64 /SY	5,758
					32.40.11.02 Site Improvements, Other	**867.00 SY**	**59**	**5,845**	**3,659**		**1,038**		**12.16 /SY**	**10,542**	**15.40 /SY**	**13,354**
					32.00.202 Dunnigan - CBD Discharge Structure, Grading and Seeding	**867.00 SY**	**59**	**5,845**	**3,659**		**1,038**		**12.16 /SY**	**10,542**	**15.40 /SY**	**13,354**
					31.35 Site Landscaping	***1.00*** **LS**	**59**	**5,845**	**3,659**		**1,038**		**10,541.68 /LS**	**10,542**	**13,354.38 /LS**	**13,354**
		32.12			**Paving**											
			32.00.200		**Dunnigan - CBD Discharge Structure, Gravel Surfacing**											
				32.40.04.00	**Site Improvements, Gravel Surfacing**											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	2,062.22 SY	16	1,782	-	-	1,148	-	1.42 /SY	2,930	1.76 /SY	3,638
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,12"deep	2,062.22 sy	35	3,803	40,832	-	2,693	-	22.95 /sy	47,328	29.93 /sy	61,725
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	2,062.22 sy	14	1,608	-	-	974	-	1.25 /sy	2,582	1.55 /sy	3,206
					32.40.04.00 Site Improvements, Gravel Surfacing	**2,062.22 SY**	**65**	**7,193**	**40,832**		**4,814**		**25.62 /SY**	**52,839**	**33.25 /SY**	**68,568**
					32.00.200 Dunnigan - CBD Discharge Structure, Gravel Surfacing	**2,062.22 SY**	**65**	**7,193**	**40,832**		**4,814**		**25.62 /SY**	**52,839**	**33.25 /SY**	**68,568**
					32.12 Paving	**2,062.22 SY**	**65**	**7,193**	**40,832**		**4,814**		**25.62 /SY**	**52,839**	**33.25 /SY**	**68,568**
					32.0 Exterior Improvements	***1.00*** **LS**	**654**	**48,153**	**119,892**		**26,374**		**194,418.65 /LS**	**194,419**	**250,093.01 /LS**	**250,093**
	40.0				**Process Pipe**											
		40.00			**Exposed Process Pipe - General Items**											
			33.00.110		**Dunnigan - CBD Discharge Structure, Process Piping and Valving**											
				40.00.99.01	**Process Pipe, Other**											
					Air / VAC Valve, Includes Piping and Valving	4.00 ea	96	11,018	40,000	-	-	-	12,754.51 /ea	51,018	16,561.69 /ea	66,247
					Sump Pump and Piping Allowance	2.00 ea	32	3,673	10,000	-	-	-	6,836.34 /ea	13,673	8,850.87 /ea	17,702
					Wall Pipe, CS, PExPE, 66"	2.00 ea	80	9,182	31,600	-	1,040	-	20,910.84 /ea	41,822	27,109.54 /ea	54,219
					Wall Pipe, CS, PExPE, 84"	2.00 ea	80	9,182	40,000	-	1,040	-	25,110.84 /ea	50,222	32,628.99 /ea	65,258
					126" Tee	1.00 ea	56	5,834	38,000	-	2,383	-	46,217.48 /ea	46,217	60,141.14 /ea	60,141
					126" x 84" Reducing Elbow	2.00 ea	112	11,668	56,000	-	4,767	-	36,217.47 /ea	72,435	46,999.59 /ea	93,999
					84" Piping and Appurtenances	120.00 LF	400	45,909	144,000	-	5,200	-	1,625.90 /LF	195,109	2,105.81 /LF	252,697
					84" Mag Meter	2.00 ea	192	21,723	143,000	-	1,200	-	82,961.35 /ea	165,923	108,193.10 /ea	216,386
					84" Full Port Ball Valve	2.00 ea	96	10,861	140,000	-	1,200	-	76,030.67 /ea	152,061	99,478.84 /ea	198,958
					84" Restained Coupling	2.00 ea	144	16,292	108,000	-	1,200	-	62,746.01 /ea	125,492	81,823.87 /ea	163,648
					66 x 60 Vertical Sleeve Valve	2.00 ea	480	54,307	1,900,000	-	2,400	-	978,353.36 /ea	1,956,707	1,283,652.03 /ea	2,567,304
					36" Accessway	2.00 ea	48	5,431	16,000	-	1,200	-	11,315.34 /ea	22,631	14,629.75 /ea	29,259
					8" Bypass Piping Fittings and Appurtenances	200.00 LF	280	29,171	17,000	-	11,916	-	290.44 /LF	58,087	366.78 /LF	73,357
					8" Mag Meter	2.00 ea	48	5,431	15,200	-	520	-	10,575.34 /ea	21,151	13,681.91 /ea	27,364
					8" Gate Valve	2.00 ea	40	4,591	2,400	-	280	-	3,635.43 /ea	7,271	4,600.95 /ea	9,202
					8" Plunger Valve	2.00 ea	24	2,715	5,000	-	520	-	4,117.67 /ea	8,235	5,293.98 /ea	10,588
					Miseellaneous Items and Appurtenances Allowance	1.00 ls		60,000	70,000	-	10,000	-	140,000.00 /ls	140,000	178,906.64 /ls	178,907
					40.00.99.01 Process Pipe, Other	**320.00 LF**	**2,208**	**306,986**	**2,776,200**		**44,866**		**9,775.16 /LF**	**3,128,053**	**12,766.36 /LF**	**4,085,236**
					33.00.110 Dunnigan - CBD Discharge Structure, Process Piping and Valving	**320.00 LF**	**2,208**	**306,986**	**2,776,200**		**44,866**		**9,775.16 /LF**	**3,128,053**	**12,766.36 /LF**	**4,085,236**
					40.00 Exposed Process Pipe - General Items	**320.00 LF**	**2,208**	**306,986**	**2,776,200**		**44,866**		**9,775.16 /LF**	**3,128,053**	**12,766.36 /LF**	**4,085,236**
					40.0 Process Pipe	**320.00 LF**	**2,208**	**306,986**	**2,776,200**		**44,866**		**9,775.16 /LF**	**3,128,053**	**12,766.36 /LF**	**4,085,236**
	40.9				**Instrumentation & Controls**											
		40.90			**Instrumentation & Controls**											
			40.90.200		**Dunnigan - CBD Discharge Structure, I&C**											
				40.90.99.01	**I&C, Other**											
					I&C Allowance	1.00 ls	160	16,691	30,000	-	2,800	-	49,490.72 /ls	49,491	63,625.40 /ls	63,625
					40.90.99.01 I&C, Other	***1.00*** **LS**	**160**	**16,691**	**30,000**		**2,800**		**49,490.72 /LS**	**49,491**	**63,625.40 /LS**	**63,625**
					40.90.200 Dunnigan - CBD Discharge Structure, I&C	***1.00*** **LS**	**160**	**16,691**	**30,000**		**2,800**		**49,490.72 /LS**	**49,491**	**63,625.40 /LS**	**63,625**
					40.90 Instrumentation & Controls	***1.00*** **LS**	**160**	**16,691**	**30,000**		**2,800**		**49,490.72 /LS**	**49,491**	**63,625.40 /LS**	**63,625**

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
					40.9 Instrumentation & Controls	*1.00* LS	160	16,691	30,000		2,800		49,490.72 /LS	49,491	63,625.40 /LS	63,625
					5200 Dunnigan - CBD Discharge Structure	**3,400.00 SF**	**15,966**	**1,803,150**	**4,700,302**	**180,000**	**285,404**		**2,049.66 /SF**	**6,968,857**	**2,810.14 /SF**	**9,554,489**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	44,858,481		419,497.278	
Material	61,714,323			
Subcontractor	5,685,641			
Equipment	23,969,895		176,255.640	
Other				
Subtotal Direct Costs	**136,228,340**	**136,228,340**		
Material Sales Tax, Dunnigan Ca	4,474,288			7.250 %
Subtotal w/ Sales Tax	**4,474,288**	**140,702,628**		
Concrete Sub OH&P	601,098			20.000 %
Architectural Sub OH&P	137,108			20.000 %
Tunnel Profit	3,555,784			10.000 %
Subtotal w/ Sub Markup	**4,293,990**	**144,996,618**		
Mobilization/Demobilization	4,349,899			3.000 %
Prime Contractor Overhead	14,934,652			10.000 %
Prime Contractor Profit	9,856,870			6.000 %
Bonds & Insurance	3,778,795			2.170 %
Subtotal w/ Prime Markups	**32,920,216**	**177,916,834**		
Contractor Contingency	5,337,505			3.000 %
Design Contingency	32,025,030			18.000 %
Subtotal w/ Contingency	**37,362,535**	**215,279,369**		
Opinion of Probable Construction Costs		**215,279,369**		

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Appendix O
Package 12
TCCA Red Bluff Pumping Plant Improvements Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
12.0	**Red Bluff Pumping Plant Improvements**	***1.00*** **LS**	**5,315,157.51 /LS**	**5,315,158**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	141,130		902.400	
Material	5,132,481			
Subcontractor	11,581			
Equipment	29,966		312.000	
Other				
Subtotal w/ Prime Markups	**5,315,158**	**5,315,158**		
Construction Contingency	159,455			3.000 %
Design Contingency	956,728			18.000 %
Opinion of Probable Construction Costs	**1,116,183**	**6,431,341**		

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Work Activity Summary Report

Project Name: Red Bluff Pumping Plant Improvements
Project Number: D3380602
Design Stage: 10% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/21/2025
Class Estimate: 4

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
12.0				**Red Bluff Pumping Plant Improvements**			
	26.0			Electrical Work			
		26.00		Electrical			
			26.00.99.0010	Electric Power - Install	1.00 LS	36,050.04 /LS	36,050
				26.00 Electrical	1.00 LS	36,050.04 /LS	36,050
				26.0 Electrical Work	1.00 LS	36,050.04 /LS	36,050
	40.0			Process Pipe			
		40.55		Water Control Gates, Other Gates			
			40.30.06.0010	Flap Gates	2.00 EA	55,016.61 /EA	110,033
				40.55 Water Control Gates, Other Gates	2.00 EA	55,016.61 /EA	110,033
				40.0 Process Pipe	1.00 LS	110,033.21 /LS	110,033
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.99.0010	I&C Allowance	1.00 LS	30,297.42 /LS	30,297
				40.90 Instrumentation & Controls	1.00 LS	30,297.42 /LS	30,297
				40.9 Instrumentation & Controls	1.00 LS	30,297.42 /LS	30,297
	44.0			Pollution and Waste Control Equipment			
		44.40		Process Equipment - Pumps			
			44.40.500	Red Bluff Pumping Plant, Furnish and Install Pumps	2.00 EA	2,569,388.42 /EA	5,138,777
				44.40 Process Equipment - Pumps	2.00 EA	2,569,388.42 /EA	5,138,777
				44.0 Pollution and Waste Control Equipment	2.00 EA	2,569,388.42 /EA	5,138,777
				12.0 Red Bluff Pumping Plant Improvements	1.00 LS	5,315,157.51 /LS	5,315,158

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	141,130		902.400	
Material	5,132,482			
Subcontractor	11,581			
Equipment	29,966		312.000	
Other				
Subtotal w/ Prime Markups	**5,315,159**	**5,315,159**		
Construction Contingency	159,455			3.000 %
Design Contingency	956,728			18.000 %
Opinion of Probable Construction Costs	**1,116,183**	**6,431,342**		

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Detail Report

Project Name: Red Bluff Pumping Plant Improvements
Project Number: D3380602
Design Stage: 10% Design

Estimator: Jones T
Rev No. / Data: R02 - 04/21/2025
Class Estimate: 4

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
12.0					**Red Bluff Pumping Plant Improvements**											
	26.0				Electrical Work											
		26.00			Electrical											
			26.00.99.0010		**Electric Power - Install**											
				26.00.99.00	Electrical, Other											
					Electric Power - Install	1.00 ls	120	12,518	12,000		1,000	-	25,518.04 /ls	25,518	36,050.04 /ls	36,050
					26.00.99.00 Electrical, Other	*1.00* LS	120	12,518	12,000		1,000		25,518.04 /LS	25,518	36,050.04 /LS	36,050
					26.00.99.0010 Electric Power - Install	***1.00*** **LS**	**120**	**12,518**	**12,000**		**1,000**		**25,518.04 /LS**	**25,518**	**36,050.04 /LS**	**36,050**
					26.00 Electrical	*1.00* LS	120	12,518	12,000		1,000		25,518.04 /LS	25,518	36,050.04 /LS	36,050
					26.0 Electrical Work	*1.00* LS	120	12,518	12,000		1,000		25,518.04 /LS	25,518	36,050.04 /LS	36,050
	40.0				Process Pipe											
		40.55			Water Control Gates, Other Gates											
			40.30.06.0010		**Flap Gates**											
				40.30.06.01	Other Gates											
					Flap gates, hydraulic structures, 84" diameter	2.00 EA	240	30,359	38,000	-	9,456	-	38,907.44 /EA	77,815	55,016.61 /EA	110,033
					40.30.06.01 Other Gates	2.00 EA	240	30,359	38,000		9,456		38,907.44 /EA	77,815	55,016.61 /EA	110,033
					40.30.06.0010 Flap Gates	**2.00 EA**	**240**	**30,359**	**38,000**		**9,456**		**38,907.44 /EA**	**77,815**	**55,016.61 /EA**	**110,033**
					40.55 Water Control Gates, Other Gates	2.00 EA	240	30,359	38,000		9,456		38,907.44 /EA	77,815	55,016.61 /EA	110,033
					40.0 Process Pipe	*1.00* LS	240	30,359	38,000		9,456		77,814.88 /LS	77,815	110,033.21 /LS	110,033
	40.9				Instrumentation & Controls											
		40.90			Instrumentation & Controls											
			40.90.99.0010		**I&C Allowance**											
				40.90.99.01	I&C, Other											
					I&C Allowance	1.00 ls	80	8,345	12,000		1,000	-	21,345.36 /ls	21,345	30,297.42 /ls	30,297
					40.90.99.01 I&C, Other	*1.00* LS	80	8,345	12,000		1,000		21,345.36 /LS	21,345	30,297.42 /LS	30,297
					40.90.99.0010 I&C Allowance	***1.00*** **LS**	**80**	**8,345**	**12,000**		**1,000**		**21,345.36 /LS**	**21,345**	**30,297.42 /LS**	**30,297**
					40.90 Instrumentation & Controls	*1.00* LS	80	8,345	12,000		1,000		21,345.36 /LS	21,345	30,297.42 /LS	30,297
					40.9 Instrumentation & Controls	*1.00* LS	80	8,345	12,000		1,000		21,345.36 /LS	21,345	30,297.42 /LS	30,297
	44.0				Pollution and Waste Control Equipment											
		44.40			Process Equipment - Pumps											
			44.40.500		**Red Bluff Pumping Plant, Furnish and Install Pumps**											
				44.05.42.05	Vertical Turbine Pump: 501hp-1000hp											
					Functional Testing, Pumps, >1000 hp	2.00 ea	64	6,748	200	-	-	-	3,473.86 /ea	6,948	4,796.43 /ea	9,593
					Align Pump & Motor, >1000 hp	2.00 ea	80	8,435	-	5,600	-	-	7,017.32 /ea	14,035	9,674.32 /ea	19,349
					Vibration Testing, Pumps, >1000 hp	2.00 ea	32	3,374	-	2,800	-	-	3,086.93 /ea	6,174	4,255.75 /ea	8,512
					Sleeved anchor bolts - Large	24.00 ea	24	2,530	672	-	-	-	133.43 /ea	3,202	185.99 /ea	4,464
					Anchor bolts for leveling pump cans	8.00 ea	32	3,374	1,200	-	-	-	571.73 /ea	4,574	799.08 /ea	6,393
					Non-Shrink Machine Grout	32.00 cuft	30	3,205	2,368	-	-	-	174.16 /cuft	5,573	245.47 /cuft	7,855
					Grease, Oil, and Lube Pumps, >1000 hp	2.00 ea	32	3,374	300	-	-	-	1,836.93 /ea	3,674	2,543.34 /ea	5,087
					FURNISH Vertical Turbine Pump and Motor, MWI Pumps Quote, Received June 10, 2024	2.00 EA		-	*3,186,337*	-	-	-	1,593,168.50 /EA	3,186,337	2,311,900.54 /EA	4,623,801
					Remove Existing Blockout Plates to Install Pumps	2.00 ea	40	4,526	1,000	-	2,600	-	4,062.78 /ea	8,126	5,637.33 /ea	11,275
					Remove Existing Blind Flanges	2.00 ea	32	3,620	500	-	1,040	-	2,580.23 /ea	5,160	3,575.31 /ea	7,151
					Harnessed Sleeve	2.00 ea	48	5,431	124,800	-	3,120	-	66,675.34 /ea	133,351	96,444.87 /ea	192,890
					Butterfly Valves	2.00 ea	48	5,431	156,000	-	3,120	-	82,275.34 /ea	164,551	119,082.55 /ea	238,165
					Pump Equipment Pads	2.00 ea		1,100	1,500	-	400	-	1,500.00 /ea	3,000	2,122.33 /ea	4,245
					44.05.42.05 Vertical Turbine Pump: 501hp-1000hp	2.00 EA	462	51,147	3,474,877	8,400	10,280		1,772,351.92 /EA	3,544,704	2,569,388.42 /EA	5,138,777
					44.40.500 Red Bluff Pumping Plant, Furnish and Install Pumps	**2.00 EA**	**462**	**51,147**	**3,474,877**	**8,400**	**10,280**		**1,772,351.92 /EA**	**3,544,704**	**2,569,388.42 /EA**	**5,138,777**
					44.40 Process Equipment - Pumps	2.00 EA	462	51,147	3,474,877	8,400	10,280		1,772,351.92 /EA	3,544,704	2,569,388.42 /EA	5,138,777
					44.0 Pollution and Waste Control Equipment	2.00 EA	462	51,147	3,474,877	8,400	10,280		1,772,351.92 /EA	3,544,704	2,569,388.42 /EA	5,138,777
					12.0 Red Bluff Pumping Plant Improvements	***1.00*** **LS**	**902**	**102,369**	**3,536,877**	**8,400**	**21,736**		**3,669,382.11 /LS**	**3,669,382**	**5,315,157.51 /LS**	**5,315,158**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	102,369		902.400	
Material	3,536,877			
Subcontractor	8,400			
Equipment	21,736		312.000	
Other				
Subtotal Direct Costs	**3,669,382**	**3,669,382**		
Material Sales Tax, Dunnigan Ca	256,424			7.250 %
Subtotal w/ Tax	**256,424**	**3,925,806**		
General Conditions	392,581			10.000 %
Subtotal w/ General Conditions	**392,581**	**4,318,387**		
Mobilization/Demobilization	192,940			3.000 %
Prime Contractor Home OfficeOH	259,103			6.000 %
Prime Contractor Profit	431,839			10.000 %
Bonds/Insurance	112,889			2.170 %
Subtotal w/ Prime Markups	**996,771**	**5,315,158**		
Construction Contingency	159,455			3.000 %
Design Contingency	956,728			18.000 %
Subtotal w/ Contingency	**1,116,183**	**6,431,341**		
Opinion of Probable Construction Costs		**6,431,341**		

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Appendix P
Package 13
GCID Main Canal Improvements
Detailed Cost Estimate

Bid Item	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
13.0	**GCID Canal Improvements**	***1.00*** **LS**	**6,277,732.66 /LS**	**6,277,733**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	1,867,545		12,456.246	
Material	3,175,463			
Subcontractor	765,268			
Equipment	469,457		3,372.175	
Other				
Subtotal w/ Prime Markups	**6,277,733**	**6,277,733**		
Contractor Contingency	188,332			3.000 %
Design Contingency	1,129,992			18.000 %
Opinion of Probable Construction Costs	**1,318,324**	**7,596,057**		

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Description	Takeoff Quantity	Grand Total Price	Grand Total Amount
13.0				**GCID Canal Improvements**			
	01.0			General Requirements			
		01.01		Construction Operations			
			01.00.900	Gate Structure Removal and Control of Water	6.00 MO	61,494.72 /MO	368,968
				01.01 Construction Operations	6.00 MO	61,494.72 /MO	368,968
				01.0 General Requirements	6.00 MO	61,494.72 /MO	368,968
	02.0			Existing Conditions			
		02.40		Demolition			
			02.00.900	Gate Structure Demolish Existing Canal Lining	17,952.00 SF	5.32 /SF	95,545
				02.40 Demolition	17,952.00 SF	5.32 /SF	95,545
				02.0 Existing Conditions	17,952.00 SF	5.32 /SF	95,545
	03.0			Concrete Work			
		03.18		Cast-In-Place Concrete, Slabs on Grade			
			03.00.500	Foundation Slab	697.00 CY	849.73 /CY	592,264
			03.00.510	Gate Structure Concrete Canal Lining	283.00 CY	939.44 /CY	265,862
				03.18 Cast-In-Place Concrete, Slabs on Grade	980.00 CY	875.64 /CY	858,126
		03.20		Cast-In-Place Concrete, Straight Walls			
			03.00.502	Gate Structure End Walls	94.00 CY	1,552.34 /CY	145,920
			03.00.504	Gate Structure Pier Walls	271.00 CY	1,553.04 /CY	420,875
			03.00.506	Gate Structure Walls	384.00 CY	1,570.39 /CY	603,030
				03.20 Cast-In-Place Concrete, Straight Walls	749.00 CY	1,561.85 /CY	1,169,824
		03.24		Cast-In-Place Concrete, Elevated Slabs			
			03.00.507	Gate Structure Elevated Slab	156.00 CY	1,264.87 /CY	197,320
				03.24 Cast-In-Place Concrete, Elevated Slabs	156.00 CY	1,264.87 /CY	197,320
				03.0 Concrete Work	1,885.00 CY	1,180.51 /CY	2,225,270
	05.0			Metals			
		05.50		Metal Fabrications			
			05.00.900	Gate Structure Metals	*1.00* LS	78,498.74 /LS	78,499
				05.50 Metal Fabrications	*1.00* LS	78,498.74 /LS	78,499
				05.0 Metals	*1.00* LS	78,498.74 /LS	78,499
	26.0			Electrical Work			
		26.20		Facility Electrical			
			26.20.GATE	GATE Actuators	*1.00* LS	109,323.94 /LS	109,324
				26.20 Facility Electrical	*1.00* LS	109,323.94 /LS	109,324
				26.0 Electrical Work	*1.00* LS	109,323.94 /LS	109,324
	31.0			Earthwork			
		31.22		Earthworks, Site			
			31.00.716	Construct Embankment	5,710.00 CY	448.70 /CY	2,562,071
				31.22 Earthworks, Site	5,710.00 CY	448.70 /CY	2,562,071
		31.25		Earthworks, Structural			
			31.25.900	Gate Structure Earthworks	2,670.00 CY	50.29 /CY	134,282
				31.25 Earthworks, Structural	2,670.00 CY	50.29 /CY	134,282
				31.0 Earthwork	8,380.00 CY	321.76 /CY	2,696,353
	40.0			Process Pipe			
		40.51		Water Control Gates, Slide/Weir Gates			
			40.00.900	Gate Structure Water Control Gates	8.00 EA	56,370.29 /EA	450,962
				40.51 Water Control Gates, Slide/Weir Gates	8.00 EA	56,370.29 /EA	450,962
				40.0 Process Pipe	*1.00* LS	450,962.35 /LS	450,962
	40.9			Instrumentation & Controls			
		40.90		Instrumentation & Controls			
			40.90.ALLOW	Allowance for SCADA at GCID	*1.00* LS	252,811.62 /LS	252,812
				40.90 Instrumentation & Controls	*1.00* LS	252,811.62 /LS	252,812
				40.9 Instrumentation & Controls	*1.00* LS	252,811.62 /LS	252,812
				13.0 GCID Canal Improvements	*1.00* LS	6,277,732.66 /LS	6,277,733

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	1,867,545		12,456.246	
Material	3,175,463			
Subcontractor	765,268			
Equipment	469,457		3,372.175	
Other				
Subtotal w/ Prime Markups	**6,277,733**	**6,277,733**		
Contractor Contingency	188,332			3.000 %
Design Contingency	1,129,992			18.000 %
Opinion of Probable Construction Costs	**1,318,324**	**7,596,057**		

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Detail Report
Project Name: GCID Canal Improvements
Project Number: D3380602
Design Stage: 10% Design

Estimator: Jones T
Rev No. / Data: R01 - 04/21/2025
Class Estimate: 4

Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
13.0					**GCID Canal Improvements**											
	01.0				General Requirements											
		01.01			Construction Operations											
			01.00.900		Gate Structure Removal and Control of Water											
				31.15.02.00	Dewatering											
					CBD Discharge Structure, Removal and Control of Water	6.00 MO				270,000	-	-	45,000.00 /MO	270,000	61,494.72 /MO	368,968
					31.15.02.00 Dewatering	6.00 MO				270,000			45,000.00 /MO	270,000	61,494.72 /MO	368,968
					01.00.900 Gate Structure Removal and Control of Water	6.00 MO				270,000			45,000.00 /MO	270,000	61,494.72 /MO	368,968
					01.01 Construction Operations	6.00 MO				270,000			45,000.00 /MO	270,000	61,494.72 /MO	368,968
					01.0 General Requirements	6.00 MO				270,000			45,000.00 /MO	270,000	61,494.72 /MO	368,968
	02.0				Existing Conditions											
		02.40			Demolition											
			02.00.900		Gate Structure Demolish Existing Canal Lining											
				02.01.01.00	General Site Demolition											
					Partial Demolition of Existing Canal Lining	17,952.00 SF	354	36,025	17,687	-	4,167	-	3.22 /SF	57,879	4.48 /SF	80,376
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	500.00 cy	51	5,086	-	-	4,673	-	19.52 /cy	9,759	26.67 /cy	13,336
					Load excavated spoils	500.00 cy	6	711		-	630	-	2.68 /cy	1,341	3.66 /cy	1,832
					02.01.01.00 General Site Demolition	17,952.00 SF	411	41,821	17,687		9,470		3.84 /SF	68,978	5.32 /SF	95,545
					02.00.900 Gate Structure Demolish Existing Canal Lining	17,952.00 SF	411	41,821	17,687		9,470		3.84 /SF	68,978	5.32 /SF	95,545
					02.40 Demolition	17,952.00 SF	411	41,821	17,687		9,470		3.84 /SF	68,978	5.32 /SF	95,545
					02.0 Existing Conditions	17,952.00 SF	411	41,821	17,687		9,470		3.84 /SF	68,978	5.32 /SF	95,545
	03.0				Concrete Work											
		03.18			Cast-In-Place Concrete, Slabs on Grade											
			03.00.500		Foundation Slab											
				03.10.05.36	Cast-In-Place Concrete, Slabs on Grade, 36" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, over 12", 4 use, includes erecting, bracing, stripping and cleaning	1,440.00 sfca	134	13,993	1,676	-	-	-	10.88 /sfca	15,669	14.95 /sfca	21,534
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	61.00 ton	976	114,194	91,500	-	-	-	3,372.03 /ton	205,694	4,716.80 /ton	287,725
					Reinforcing in place, unloading & sorting, add to above - slabs	61.00 ton	34	4,072	-	-	1,414	-	89.94 /ton	5,487	122.91 /ton	7,498
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	718.00 cy		-	157,960	-	-	-	220.00 /cy	157,960	316.59 /cy	227,312
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	697.00 CY	241	23,087	-	-	3,397	-	38.00 /CY	26,484	51.92 /CY	36,192
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	4,524.00 sf	63	5,776	-	-	230	-	1.33 /sf	6,006	1.81 /sf	8,207
					Curing, sprayed membrane curing compound	45.24 csf	8	693	676	-	-	-	30.27 /csf	1,369	42.44 /csf	1,920
					Fine grading, fine grade for slab on grade, machine	502.67 sy	8	835	-	-	538	-	2.73 /sy	1,373	3.73 /sy	1,877
					03.10.05.36 Cast-In-Place Concrete, Slabs on Grade, 36" thick	697.00 CY	1,464	162,650	251,812		5,579		602.64 /CY	420,042	849.73 /CY	592,264
					03.00.500 Foundation Slab	697.00 CY	1,464	162,650	251,812		5,579		602.64 /CY	420,042	849.73 /CY	592,264
			03.00.510		Gate Structure Concrete Canal Lining											
				03.10.05.07	Cast-In-Place Concrete, Slabs on Grade, 7" thick											
					C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning	514.00 lf	27	2,864	204	-	-	-	5.97 /lf	3,067	8.18 /lf	4,206
					Reinforcing Steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	24.75 ton	396	46,333	37,125	-	-	-	3,372.03 /ton	83,458	4,716.80 /ton	116,741
					Reinforcing in place, unloading & sorting, add to above - slabs	24.75 ton	14	1,652	-	-	574	-	89.94 /ton	2,226	122.91 /ton	3,042
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	292.00 cy		-	64,240	-	-	-	220.00 /cy	64,240	316.59 /cy	92,445
					Structural concrete, placing, slab on grade, pumped, over 6" thick, includes strike off & consolidation, excludes material	283.00 CY	98	9,374	-	-	1,379	-	38.00 /CY	10,753	51.92 /CY	14,695
					Cfnsh,flrs,for spcf rndm accs flrs aci clss 1,2,3 and 4,achv a cmps ovrl flr fltn&lvln val f35/25,bull flt,mchn flt&stl trwl (wlk-bhn),excl plcn,strkn	13,090.00 sf	183	16,711	-	-	666	-	1.33 /sf	17,378	1.81 /sf	23,748
					Curing, sprayed membrane curing compound	130.90 csf	22	2,006	1,956	-	-	-	30.27 /csf	3,962	42.44 /csf	5,556
					Fine grading, fine grade for slab on grade, machine	1,454.44 sy	22	2,417	-	-	1,557	-	2.73 /sy	3,974	3.73 /sy	5,430
					03.10.05.07 Cast-In-Place Concrete, Slabs on Grade, 7" thick	283.00 CY	763	81,357	103,524		4,176		668.05 /CY	189,057	939.44 /CY	265,862
					03.00.510 Gate Structure Concrete Canal Lining	283.00 CY	763	81,357	103,524		4,176		668.05 /CY	189,057	939.44 /CY	265,862
					03.18 Cast-In-Place Concrete, Slabs on Grade	980.00 CY	2,227	244,008	355,336		9,755		621.53 /CY	609,099	875.64 /CY	858,126
		03.20			Cast-In-Place Concrete, Straight Walls											
			03.00.502		Gate Structure End Walls											
				03.10.06.24	Cast-In-Place Concrete, Straight Walls, 24" thick											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	2,530.00 sfca	267	28,441	16,546	-	-	-	17.78 /sfca	44,987	24.77 /sfca	62,676
					Form oil, coverage varies greatly, maximum, includes material only	6.75 gal		-	190	-	-	-	28.20 /gal	190	40.58 /gal	274
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	8.25 ton	132	15,444	12,375	-	-	-	3,372.03 /ton	27,819	4,716.80 /ton	38,914
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	8.25 ton	5	551	-	-	191	-	89.94 /ton	742	122.91 /ton	1,014
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	97.00 cy		-	21,340	-	-	-	220.00 /cy	21,340	316.59 /cy	30,709
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	94.00 CY	50	4,800	-	-	706	-	58.58 /CY	5,506	80.05 /CY	7,525
					Finishing: break ties & patch voids (walls, cols or beams)	2,530.00 sf	37	3,423	91	-	-	-	1.39 /sf	3,514	1.90 /sf	4,808
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	94.00 CY	491	52,658	50,543		897		1,107.43 /CY	104,098	1,552.34 /CY	145,920
					03.00.502 Gate Structure End Walls	94.00 CY	491	52,658	50,543		897		1,107.43 /CY	104,098	1,552.34 /CY	145,920
			03.00.504		Gate Structure Pier Walls											
				03.10.06.24	Cast-In-Place Concrete, Straight Walls, 24" thick											
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	7,315.00 sfca	772	82,230	47,840	-	-	-	17.78 /sfca	130,070	24.77 /sfca	181,216
					Form oil, coverage varies greatly, maximum, includes material only	19.50 gal		-	550	-	-	-	28.20 /gal	550	40.58 /gal	791
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	23.75 ton	380	44,461	35,625	-	-	-	3,372.03 /ton	80,086	4,716.80 /ton	112,024
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	23.75 ton	13	1,585	-	-	551	-	89.94 /ton	2,136	122.91 /ton	2,919
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	279.00 cy		-	61,380	-	-	-	220.00 /cy	61,380	316.59 /cy	88,329

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				03.10.06.24	**Cast-In-Place Concrete, Straight Walls, 24" thick**											
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	271.00 CY	145	13,839	-	-	2,036	-	58.58 /CY	15,875	80.05 /CY	21,694
					Finishing: break ties & patch voids (walls, cols or beams)	7,315.00 sf	108	9,896	263	-	-	-	1.39 /sf	10,159	1.90 /sf	13,902
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	**271.00 CY**	**1,418**	**152,011**	**145,658**		**2,587**		**1,107.96 /CY**	**300,256**	**1,553.04 /CY**	**420,875**
					03.00.504 Gate Structure Pier Walls	**271.00 CY**	**1,418**	**152,011**	**145,658**		**2,587**		**1,107.96 /CY**	**300,256**	**1,553.04 /CY**	**420,875**
			03.00.506		**Gate Structure Walls**											
				03.10.06.24	**Cast-In-Place Concrete, Straight Walls, 24" thick**											
					C.I.P. concrete forms, wall, box out for opening, to 16" thick, over 10 S.F. (use perimeter), includes erecting, bracing, stripping and cleaning	240.00 lf	41	4,384	706	-	-	-	21.21 /lf	5,090	29.19 /lf	7,007
					Forms in place, wall, steel framed plywood, >16' high, 3 use/month	10,354.00 sfca	1,092	116,393	67,715	-	-	-	17.78 /sfca	184,108	24.77 /sfca	256,502
					Form oil, coverage varies greatly, maximum, includes material only	27.60 gal		-	778	-	-	-	28.20 /gal	778	40.58 /gal	1,120
					Reinforcing Steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	33.60 ton	538	62,900	50,400	-	-	-	3,372.03 /ton	113,300	4,716.80 /ton	158,484
					Reinforcing in place, unloading & sorting, add - walls, cols, beams	33.60 ton	19	2,243	-	-	779	-	89.94 /ton	3,022	122.91 /ton	4,130
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	396.00 cy		-	87,120	-	-	-	220.00 /cy	87,120	316.59 /cy	125,370
					Structural concrete, placing, walls, pumped, 15" thick, includes strike off & consolidation, excludes material	384.00 CY	205	19,609	-	-	2,885	-	58.58 /CY	22,494	80.05 /CY	30,739
					Finishing: break ties & patch voids (walls, cols or beams)	10,354.00 sf	153	14,007	373	-	-	-	1.39 /sf	14,379	1.90 /sf	19,677
					03.10.06.24 Cast-In-Place Concrete, Straight Walls, 24" thick	**384.00 CY**	**2,048**	**219,536**	**207,092**		**3,664**		**1,120.55 /CY**	**430,292**	**1,570.39 /CY**	**603,030**
					03.00.506 Gate Structure Walls	**384.00 CY**	**2,048**	**219,536**	**207,092**		**3,664**		**1,120.55 /CY**	**430,292**	**1,570.39 /CY**	**603,030**
					03.20 Cast-In-Place Concrete, Straight Walls	**749.00 CY**	**3,957**	**424,206**	**403,293**		**7,148**		**1,114.35 /CY**	**834,647**	**1,561.85 /CY**	**1,169,824**
		03.24			**Cast-In-Place Concrete, Elevated Slabs**											
			03.00.507		**Gate Structure Elevated Slab**											
				03.10.10.18	**Cast-In-Place Concrete, Elevated Decks, 18" thick**											
					Slab shoring	35,640.00 cf	249	27,029	2,138	-	-	-	0.82 /cf	29,167	1.12 /cf	40,014
					C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	1,296.00 sf	111	11,838	2,068	-	-	-	10.73 /sf	13,906	14.78 /sf	19,153
					C.I.P. concrete forms, elevated slab, edge forms, to 6" high, 4 use, includes shoring, erecting, bracing, stripping and cleaning	406.00 lf	26	2,714	107	-	-	-	6.95 /lf	2,821	9.52 /lf	3,863
					Reinforcing Steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	13.75 ton	220	25,740	20,625	-	-	-	3,372.03 /ton	46,365	4,716.80 /ton	64,856
					Reinforcing in place, unloading & sorting, add to above - decks	13.75 ton	8	918	-	-	319	-	89.94 /ton	1,237	122.91 /ton	1,690
					Struct concrete,ready mix,normal wt,4500 psi,includes local aggregate,sand,portland cement and water,delivered,excludes all additives and treatments	161.00 cy		-	35,420	-	-	-	220.00 /cy	35,420	316.59 /cy	50,971
					Structural concrete, placing, elevated slab, pumped, over 10" thick, includes strike off & consolidation, excludes material	156.00 CY	55	5,311	-	-	781	-	39.05 /CY	6,092	53.37 /CY	8,325
					Finishing elev slab, bull float, manual float & manual steel trowel	2,804.00 sf	53	4,853	-	-	-	-	1.73 /sf	4,853	2.37 /sf	6,632
					Curing, sprayed membrane curing compound, elevated decks	28.04 csf	5	430	419	-	-	-	30.27 /csf	849	42.44 /csf	1,190
					Fine grading, fine grade for slab on grade, machine	167.56 sy	3	278	-	-	179	-	2.73 /sy	458	3.73 /sy	626
					03.10.10.18 Cast-In-Place Concrete, Elevated Decks, 18" thick	**156.00 CY**	**730**	**79,111**	**60,778**		**1,279**		**904.93 /CY**	**141,169**	**1,264.87 /CY**	**197,320**
					03.00.507 Gate Structure Elevated Slab	**156.00 CY**	**730**	**79,111**	**60,778**		**1,279**		**904.93 /CY**	**141,169**	**1,264.87 /CY**	**197,320**
					03.24 Cast-In-Place Concrete, Elevated Slabs	**156.00 CY**	**730**	**79,111**	**60,778**		**1,279**		**904.93 /CY**	**141,169**	**1,264.87 /CY**	**197,320**
					03.0 Concrete Work	**1,885.00 CY**	**6,914**	**747,325**	**819,407**		**18,183**		**840.80 /CY**	**1,584,914**	**1,180.51 /CY**	**2,225,270**
	05.0				**Metals**											
		05.50			**Metal Fabrications**											
			05.00.900		**Gate Structure Metals**											
				05.00.99.00	**Metals, Other**											
					Railing, pipe, aluminum, clear finish, 3 rails, 3'-6" high, posts @ 5' O.C., 1-1/2" dia, shop fabricated	344.00 lf	80	10,039	37,358	-	377	-	138.88 /lf	47,774	197.66 /lf	67,995
					Checker Plate Deck Cover	8.00 ea	32	3,998	3,360	-	150	-	938.54 /ea	7,508	1,313.01 /ea	10,504
					05.00.99.00 Metals, Other	***1.00* LS**	**112**	**14,038**	**40,718**		**527**		**55,282.77 /LS**	**55,283**	**78,498.74 /LS**	**78,499**
					05.00.900 Gate Structure Metals	***1.00* LS**	**112**	**14,038**	**40,718**		**527**		**55,282.77 /LS**	**55,283**	**78,498.74 /LS**	**78,499**
					05.50 Metal Fabrications	***1.00* LS**	**112**	**14,038**	**40,718**		**527**		**55,282.77 /LS**	**55,283**	**78,498.74 /LS**	**78,499**
					05.0 Metals	***1.00* LS**	**112**	**14,038**	**40,718**		**527**		**55,282.77 /LS**	**55,283**	**78,498.74 /LS**	**78,499**
	26.0				**Electrical Work**											
		26.20			**Facility Electrical**											
			26.20.GATE		**GATE Actuators**											
				26.00.99.00	**Electrical, Other**											
					Electrical service and building	1.00 ls				30,000		-	30,000.00 /ls	30,000	40,996.46 /ls	40,996
					Circuits to 8 Gate Actuators (Power and Controls)	1.00 ls				50,000		-	50,000.00 /ls	50,000	68,327.48 /ls	68,327
					26.00.99.00 Electrical, Other	***1.00* LS**				**80,000**			**80,000.00 /LS**	**80,000**	**109,323.94 /LS**	**109,324**
					26.20.GATE GATE Actuators	***1.00* LS**				**80,000**			**80,000.00 /LS**	**80,000**	**109,323.94 /LS**	**109,324**
					26.20 Facility Electrical	***1.00* LS**				**80,000**			**80,000.00 /LS**	**80,000**	**109,323.94 /LS**	**109,324**
					26.0 Electrical Work	***1.00* LS**				**80,000**			**80,000.00 /LS**	**80,000**	**109,323.94 /LS**	**109,324**
	31.0				**Earthwork**											
		31.22			**Earthworks, Site**											
			31.00.716		**Construct Embankment**											
				31.20.09.40	**Earthworks, Sitework, Embankments/Berms**											
					Construct cofferdam embankment w/200 HP dozer	5,710.00 CY	93	10,601	-	-	10,950	-	3.77 /CY	21,551	5.16 /CY	29,450
					Load excavated spoils	5,710.00 cy	43	4,869		-	4,319	-	1.61 /cy	9,187	2.20 /cy	12,555
					Cycle hlng(,load,travl,unld dump&rtrn) time per cycle,excvt borrw,loose cubic yards,25 min ld/wt/,42 cy truck,cycle 4 mile,25 mph,exclds loadng eqpmnt	5,710.00 cy	78	7,705	-	-	21,065	-	5.04 /cy	28,771	6.89 /cy	39,317
					Compaction, water for, 3000 gallon truck, 3 mile haul	5,710.00 cy	46	5,121		-	2,659	-	1.36 /cy	7,780	1.86 /cy	10,632
					Compaction, structural, common fill, 8" lifts, sheepsfoot	5,710.00 cy	51	5,842	-	-	3,344	-	1.61 /cy	9,186	2.20 /cy	12,553
					Cut & finish cofferdam top/sideslopes w/dozer	2,695.12 sy	24	2,758	-	-	2,850	-	2.08 /sy	5,608	2.84 /sy	7,663
					Mobilizations to 11 Sites	1.00 ls			-	25,000		-	25,000.00 /ls	25,000	34,163.74 /ls	34,164
					31.20.09.40 Earthworks, Sitework, Embankments/Berms	**5,710.00 CY**	**335**	**36,896**		**25,000**	**45,187**		**18.75 /CY**	**107,083**	**25.63 /CY**	**146,334**
				32.40.04.00	**Site Improvements, Access Roads, Gravel**											
					Fine grading, for roadway, base or leveling course, large area, 6,000 S.Y. or more	162,000.00 SY	1,296	139,987	-	-	90,155	-	1.42 /SY	230,142	1.94 /SY	314,501
					Base course drainage layers,aggregate base course for roadways and large paved areas,crushed stone base,compacted,crushed 1-1/2"stone base,6"deep	162,000.00 sy	1,296	141,903	1,069,200	-	66,982	-	7.89 /sy	1,278,085	11.26 /sy	1,824,083

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Bid Item	Work Pkg	Trade Pkg	WorkActiv	Unit Price	Description	Takeoff Quantity	Labor Hours	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	Grand Total Price	Grand Total Amount
				32.40.04.00	Site Improvements, Access Roads, Gravel											
					Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	162,000.00 sy	1,111	126,289	-	-	76,524	-	1.25 /sy	202,813	1.71 /sy	277,154
					32.40.04.00 Site Improvements, Access Roads, Gravel	162,000.00 SY	3,703	408,180	1,069,200		233,660		10.56 /SY	1,711,040	14.91 /SY	2,415,737
					31.00.716 Construct Embankment	**5,710.00 CY**	**4,038**	**445,075**	**1,069,200**	**25,000**	**278,847**		**318.41 /CY**	**1,818,122**	**448.70 /CY**	**2,562,071**
					31.22 Earthworks, Site	5,710.00 CY	4,038	445,075	1,069,200	25,000	278,847		318.41 /CY	1,818,122	448.70 /CY	2,562,071
		31.25			Earthworks, Structural											
			31.25.900		**Gate Structure Earthworks**											
				31.25.01.00	Earthworks, Structural, Excavation											
					Structural Excavation, excludes sheeting or dewatering	740.00 CY	25	2,728	-	-	2,648	-	7.26 /CY	5,376	9.93 /CY	7,347
					Stockpile Excavated Spoils	740.00 cy	11	1,262	222	-	1,119	-	3.52 /cy	2,603	4.83 /cy	3,574
					31.25.01.00 Earthworks, Structural, Excavation	740.00 CY	36	3,990	222		3,767		10.78 /CY	7,979	14.76 /CY	10,920
				31.25.02.00	Earthworks, Structural, Import Aggregates (Slab)											
					Fill, gravel fill, compacted, under floor slabs, alternate pricing method, 12" deep	200.00 CY	44	4,399	8,400	-	910	-	68.54 /CY	13,709	96.71 /CY	19,343
					31.25.02.00 Earthworks, Structural, Import Aggregates (Slab)	200.00 CY	44	4,399	8,400		910		68.54 /CY	13,709	96.71 /CY	19,343
				31.25.03.00	Earthworks, Structural, Backfill											
					Backfill, Select Granular material	990.00 CY	80	9,095	41,580	-	2,420	-	53.63 /CY	53,095	76.34 /CY	75,572
					Compaction, 4 passes, 13" to 18", 8" lifts, rammer tamper	990.00 cy	20	1,848	-	-	228	-	2.10 /cy	2,076	2.87 /cy	2,837
					Compaction, water for, 6000 gallon wagon, 6 mile haul	990.00 cy	5	491	1,426	-	321	-	2.26 /cy	2,238	3.19 /cy	3,162
					31.25.03.00 Earthworks, Structural, Backfill	990.00 CY	105	11,434	43,006		2,969		57.99 /CY	57,409	82.39 /CY	81,570
				31.25.05.00	Earthworks, Structural, Hauling and Disposal											
					Hauling, excavated or borrow material, loose cubic yards, 20 mile round trip, 0.5 loads/hour, 20 C.Y. dump trailer, highway haulers, excludes loading	740.00 CY	76	7,528	-	-	6,916	-	19.52 /CY	14,443	26.67 /CY	19,737
					Load excavated spoils	740.00 cy	9	1,052		-	933	-	2.68 /cy	1,984	3.66 /cy	2,712
					31.25.05.00 Earthworks, Structural, Hauling and Disposal	740.00 CY	85	8,579			7,848		22.20 /CY	16,428	30.34 /CY	22,449
					31.25.900 Gate Structure Earthworks	**2,670.00 CY**	**270**	**28,402**	**51,628**		**15,495**		**35.78 /CY**	**95,524**	**50.29 /CY**	**134,282**
					31.25 Earthworks, Structural	2,670.00 CY	270	28,402	51,628		15,495		35.78 /CY	95,524	50.29 /CY	134,282
					31.0 Earthwork	8,380.00 CY	4,308	473,478	1,120,828	25,000	294,342		228.36 /CY	1,913,647	321.76 /CY	2,696,353
	40.0				Process Pipe											
		40.51			Water Control Gates, Slide/Weir Gates											
			40.00.900		**Gate Structure Water Control Gates**											
				40.30.03.99	Slide or Weir Gate, Rectangular											
					Slide gates, hydraulic structures, steel, self contained, 84" x 96", incl. anchor bolts & grout	8.00 EA	711	89,953	208,000	-	21,013	-	39,870.71 /EA	318,966	56,370.29 /EA	450,962
					40.30.03.99 Slide or Weir Gate, Rectangular	8.00 EA	711	89,953	208,000		21,013		39,870.71 /EA	318,966	56,370.29 /EA	450,962
					40.00.900 Gate Structure Water Control Gates	**8.00 EA**	**711**	**89,953**	**208,000**		**21,013**		**39,870.71 /EA**	**318,966**	**56,370.29 /EA**	**450,962**
					40.51 Water Control Gates, Slide/Weir Gates	8.00 EA	711	89,953	208,000		21,013		39,870.71 /EA	318,966	56,370.29 /EA	450,962
					40.0 Process Pipe	*1.00* LS	711	89,953	208,000		21,013		318,965.69 /LS	318,966	450,962.35 /LS	450,962
	40.9				Instrumentation & Controls											
		40.90			Instrumentation & Controls											
			40.90.ALLOW		**Allowance for SCADA at GCID**											
				26.00.99.00	Electrical, Other											
					Testing, Startup, Commissioning, Training, Documentation, Warranty	1.00 ls				50,000		-	50,000.00 /ls	50,000	68,327.46 /ls	68,327
					26.00.99.00 Electrical, Other	*1.00* LS				50,000			50,000.00 /LS	50,000	68,327.46 /LS	68,327
				40.90.99.01	I&C, Other											
					Radio Equipment at Canal - Allowance	1.00 ls				20,000		-	20,000.00 /ls	20,000	27,330.99 /ls	27,331
					Instrumentation at Canal - Allowance	1.00 ls				40,000		-	40,000.00 /ls	40,000	54,661.97 /ls	54,662
					Radio Equipment at [Funks] - Allowance	1.00 ls				20,000		-	20,000.00 /ls	20,000	27,330.99 /ls	27,331
					Software, Licenses	1.00 ls				5,000		-	5,000.00 /ls	5,000	6,832.74 /ls	6,833
					Programming	1.00 ls				50,000		-	50,000.00 /ls	50,000	68,327.47 /ls	68,327
					40.90.99.01 I&C, Other	*1.00* LS				135,000			135,000.00 /LS	135,000	184,484.16 /LS	184,484
					40.90.ALLOW Allowance for SCADA at GCID	***1.00*** **LS**				**185,000**			**185,000.00 /LS**	**185,000**	**252,811.62 /LS**	**252,812**
					40.90 Instrumentation & Controls	*1.00* LS				185,000			185,000.00 /LS	185,000	252,811.62 /LS	252,812
					40.9 Instrumentation & Controls	*1.00* LS				185,000			185,000.00 /LS	185,000	252,811.62 /LS	252,812
					13.0 GCID Canal Improvements	***1.00*** **LS**	**12,456**	**1,366,614**	**2,206,640**	**560,000**	**343,534**		**4,476,787.82 /LS**	**4,476,788**	**6,277,732.66 /LS**	**6,277,733**

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Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	1,366,614		12,456.246	
Material	2,206,640			
Subcontractor	560,000			
Equipment	343,534		3,372.175	
Other				
Subtotal Direct Costs	**4,476,788**	**4,476,788**		
Material Sales Tax, Dunnigan Ca	159,981			7.250 %
Subtotal w/ Tax	**159,981**	**4,636,769**		
General Conditions	463,677			10.000 %
Subtotal w/ General Conditions	**463,677**	**5,100,446**		
Mobilization/Demobilization	227,882			3.000 %
Prime Contractor Home OfficeOH	306,027			6.000 %
Prime Contractor Profit	510,045			10.000 %
Bonds/Insurance	133,333			2.170 %
Subtotal w/ Prime Markups	**1,177,287**	**6,277,733**		
Contractor Contingency	188,332			3.000 %
Design Contingency	1,129,992			18.000 %
Subtotal w/ Contingency	**1,318,324**	**7,596,057**		
Opinion of Probable Construction Costs		**7,596,057**		

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Appendix Q
Package 14
Yolo County Road Repair Detailed Cost Estimate

Sites Reservoir – Yolo County Roads Improvements Draft Technical Memorandum

To:	Sites Project Authority
CC:	Henry Luu, P.E./HDR
Date:	May 2, 2025
From:	Isabel Barrios/Jacobs
Quality Review:	Wayne Ohlin, P.E./ Jacobs and Pete Rude, P.E./Jacobs
Authority Agent Review:	Reviewer
Subject:	Sites Reservoir – Yolo County Roads Improvements

1.0 Executive Summary

This technical memorandum (TM) discusses the planned roadway improvements within Yolo County (County), California for the Sites Project (project). County and state roads will be used as access during construction, operation, and maintenance to the proposed Dunnigan Pipeline, Tehama-Colusa Canal (TCC) Inlet Structure, and Colusa Basin Drain (CBD) Discharge Structure. This TM includes information about the existing County road conditions and the upgrades necessary to meet governing agency standards for using the roads before any construction activities as well as documents the costs to complete the improvements. This cost estimate has been prepared without any design and is provided for guidance; it is therefore a Class 5 cost estimate as defined by the Association for the Advancement of Cost Engineering.

2.0 Scope

Access to the Dunnigan Pipeline, TCC Intake Structure, and CBD Discharge Structure will occur through a series of existing and proposed roads located within Yolo County. The roads vary between state, local, and privately owned. This TM focuses on only the following items:

- Condition of existing County roads to be used for access
- Improvements necessary to meet governing agency criteria before construction activities
- Basis of estimate for necessary road improvements

The design of improvements to existing County access roads for the project was not completed as part of the 30 percent design effort. Improvements to these roads are preliminary and the basis of this estimate is limited to widening and paving existing roads. No field work was conducted to verify existing road widths. Road widths were estimated from Google Earth imagery.

Figure 1 and Table 1 display a map of the County-owned roads to be used for the Dunnigan Pipeline project and the current conditions of the roads. In total, approximately 3 miles of Yolo County roads will be used during times of access.

Figure 1. Project Access Roads Owned by County

Table 1. Existing Conditions of Project Access Roads Owned by County

Figure 1 Key	Road Name	Owner	Road Type	Length (feet)	Existing Width (feet)
C	Road 7a	Yolo County	Asphalt Concrete	1,320	15
D	Road 89a	Yolo County	Asphalt Concrete	1,373	20
F	Road 8	Yolo County	Asphalt Concrete	1,426	20
N	Road 8	Yolo County	Asphalt Concrete	3,432	28
G	Road 90B	Yolo County	Asphalt Concrete	3,590	22.5
P	HWY 99	Yolo County	Asphalt Concrete	5,016	25

3.0 Improvements

Figure 2 displays the Yolo County standard road section with requirements for material type and dimensions. Major governing criteria components for this analysis require a minimum of 8-inch aggregate base (AB) below a minimum of 2-inch asphalt concrete (AC) as the surface paving.

The following items are the road improvements to be implemented for the project, per governing agency criteria, before any construction commences at the Dunnigan Pipeline and associated facilities:

- Increase width of existing roads to a minimum width of 24 feet. This includes new AB and AC paving.
- Repave all existing roads with AC to a minimum thickness of 2 inches.

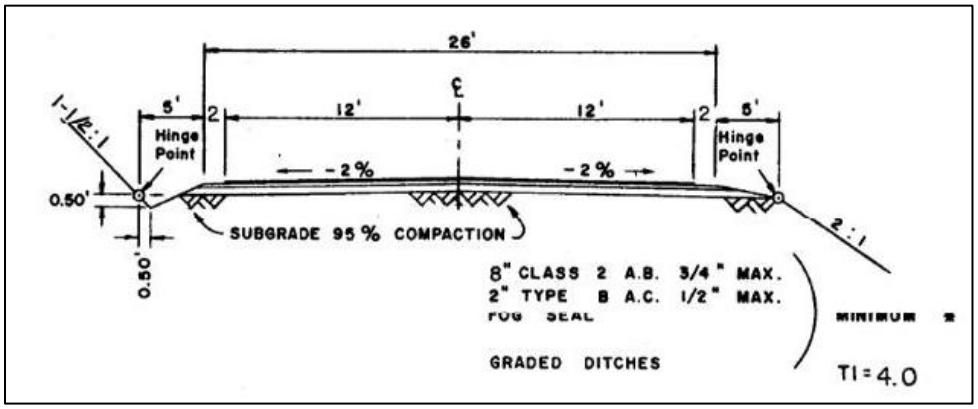


Figure 2. Yolo County Standard Road Section

4.0 Estimate Methodology

4.1 Direct Unit Costs

Direct unit costs include the material, labor, and equipment necessary for a complete, in-place product.

4.2 Markups, Taxes, and Other Indirect Costs

Table 2 provides the markups, taxes, and other indirect costs assumed for this estimate.

Table 2. Markups, Taxes, and Other Indirect Costs

Item	Unit	Comments
Materials Sales Tax	7.25%	Current sales tax rate for Dunnigan, California.
General Conditions	5.00%	
Mobilization/Demobilization	3.00%	
Prime Contractor Overhead	10.00%	Includes home office and construction site overhead.
Prime Contractor Profit	6.00%	
Bonds and Insurances	2.17%	
Contractor Contingency	3.00%	
Design Contingency	30%	
Escalation		There is no escalation included in this estimate.

4.2.1 Design Contingency

A design contingency of 30 percent is included to account for the level of design detail and the potential for additional unforeseen site conditions identified during the detailed design phase.

The contingency is intended to allow for scope that is inherent in the individual projects but is not yet identified in the design documentation. This contingency would be fully consumed or released by the completion of the procurement documents.

4.2.2 Contractor Contingency

The contractor contingency of 3 percent is intended to cover unforeseen conditions or changes after contract award. It remains under the control of the owner, separate from the bid award.

4.2.3 Escalation Costs

There is no escalation to the midpoint of construction included in this estimate.

4.2.4 Non-contract Costs

Non-contract costs are not included at this time.

4.2.5 Market Conditions

During volatile economic conditions, an estimate may have a market conditions amount applied. This adjustment is done to account for the current volatility in the construction market and/or the location of a project.

However, based on the current construction market and the location of the work proposed in this estimate, a market conditions adjustment was not applied.

5.0 Results

Based on the governing criteria defined in the previous section, Yolo County Road (CR) 7A, CR-89A, CR-90A, and a portion of CR-8 will require road widening up to 24 feet, which includes AB and AC paving. In addition, all roads will require repaving of AC to a minimum of 2 inches in thickness.

Table 3 displays the total volume of AB and AC that will be required for the roadway improvements. Table 4 provides the direct total unit costs for AB and AC as well as a total basis of estimate amount to complete the improvements.

Table 3. Road Improvements - Aggregate Base and Asphalt Concrete Total Quantities

Figure 1 Key	Road Name	New Width (feet)	Additional Required Width (feet)	Surface Area AB (yd^2)	Volume AB[a] (yd^3)	Surface Area AC (yd^2)	Volume AC[b] (yd^3)
C	Road 7a	24	9	1,320	293	3,520	196
D	Road 89a	24	4	610	136	3,661	203
F	Road 8	24	4	634	141	3,802	211
N	Road 8	no change	N/A	N/A	N/A	10,677	593
G	Road 90B	24	1.5	598	133	9,574	532
P	HWY 99	no change	N/A	N/A	N/A	13,933	774
TOTAL:				**3,162**	**703**	**45,167**	**2,509**

[a] AB thickness is 8 inches for all applicable rows

[b] AC thickness is 2 inches for all applicable rows

N/A = not applicable

yd^2 = square yard(s)

yd^3 = cubic yard(s)

Table 4. Road Improvement Basis of Estimate - Aggregate Base and Asphalt Concrete

Description	Units	Takeoff Quantity	Direct Total Cost/Unit	Amount	Totals	Rate
Aggregate Base (8-inches-thick)	yd^2	3,162	$22.13	$69,978		
Asphalt Concrete (2-inches-thick)	yd^2	45,167	$25.83	$1,166,676		
Subtotal Direct Costs[a]				$1,236,654	**$1,236,654**	
Sales Tax				$89,657		7.25%
Subtotal with Sales Tax				$2,279	**$1,238,933**	
General Conditions				$74,336		6.0%
Subtotal with General Conditions				$2,023	**$1,240,956**	
Mobilization / Demobilization				$37,229		3.00%
Prime Contractor Overhead				$127,818		10.00%
Prime Contractor Profit				$84,360		6.00%

Description	Units	Takeoff Quantity	Direct Total Cost/Unit	Amount	Totals	Rate
Bonds and Insurance				$32,341		2.17%
Subtotal with Prime Markups				$281,748	**$1,522,704**	
Contractor Contingency				$45,681		3.00%
Design Contingency				$456,811		30.00%
Subtotal with Contingency				$502,492	**$2,025,196**	

[a] Direct costs include labor costs, material costs, subcontractor costs, and equipment costs.

Appendix R
Package 15
Data Networks Detailed Cost Estimate

Sites Reservoir – Data Communications Network Basis of Estimate Draft Technical Memorandum

To:	Sites Project Authority
CC:	Henry Luu, P.E./HDR
Date:	May 2, 2025
From:	Isabel Barrios/Jacobs
Quality Review:	Wayne Ohlin, P.E./ Jacobs and Pete Rude, P.E./Jacobs
Authority Agent Review:	Reviewer
Subject:	Sites Reservoir – Data Communications Network Basis of Estimate

1.0 Executive Summary

The purpose of this technical memorandum (TM) is to recommend a data network that meets all data communications requirements and provides a relative basis of cost for installation. This TM describes the data communications architecture for the supervisory control and data acquisition, information technology, and security systems serving the Sites Reservoir project. The architecture connects 2 major data centers and up to 21 remote data nodes that require high-speed, reliable data communications throughout construction and long-term operation.

This cost estimate for the installation has been prepared without any design and is provided for guidance; it is therefore a Class 5 cost estimate as defined by the Association for the Advancement of Cost Engineering.

2.0 Scope

The limits of the data network are discussed in the Attachment 1, Data Network Architecture Draft TM dated September 2023.

A summary of Attachment 1 is as follows:

- Section 1 defines network design criteria, provides a network block diagram, and includes installation notes. Section 1 also identifies potential routes for each connection, using planned overhead power transmission lines and underground pipeline/road modifications for fiber-optic routes. Where fiber-optic connections are infeasible, radio media (satellite, microwave, cellular) options are identified.

- Section 2 quantifies relative costs for network installation. It confirms the preference for fiber optics wherever feasible and evaluates the options of satellite and microwave media for the Sites saddle dams.

- Section 3 summarizes all network installation relative costs and recommends network media for all routes. Based on the recommendations and relative costs described in Section 2, the estimated relative cost to establish data communications network media for the Sites Reservoir project is $2,520,000.

3.0 Estimate Methodology

3.1 Direct Unit Costs

Direct unit costs include the material, labor, and equipment necessary for a complete, in-place product.

3.2 Markups, Taxes, and Other Indirect Costs

Table 1 provides the markups, taxes, and other indirect costs assumed for this estimate.

Table 1. Markups, Taxes, and Other Indirect Costs

Item	Unit	Comments
Materials Sales Tax	7.25%	Current sales tax rate for Dunnigan, California.
General Conditions	6.00%	
Mobilization/Demobilization	3.00%	
Prime Contractor Overhead	10.00%	Includes home office and construction site overhead.
Prime Contractor Profit	6.00%	
Bonds and Insurances	2.17%	
Contractor Contingency	3.00%	
Design Contingency	30%	
Escalation		There is no escalation included in this estimate.

3.3 Design Contingency

A design contingency of 30 percent is included to account for the level of design detail and the potential for additional unforeseen site conditions identified during the detailed design phase.

The contingency is intended to allow for scope that is inherent in the individual projects but is not yet identified in the design documentation. This contingency would be fully consumed or released by the completion of the procurement documents.

3.4 Contractor Contingency

The contractor contingency of 3 percent is intended to cover unforeseen conditions or changes after contract award. It remains under the control of the owner, separate from the bid award.

3.5 Escalation Costs

There is no escalation to the midpoint of construction included in this estimate.

3.6 Non-contract Costs

Non-contract costs are not included at this time.

3.7 Market Conditions

During volatile economic conditions, an estimate may have a market conditions amount applied. This adjustment is done to account for the current volatility in the construction market and/or the location of a project.

However, based on the current construction market and the location of the work proposed in this estimate, a market conditions adjustment was not applied.

4.0 Results

Table 2 provides the direct total unit costs as well as a total basis of estimate amount to establish data communications network media for the Sites Reservoir project.

Table 2. Data Network Installation Basis of Estimate

Description	Units	Takeoff Quantity	Direct Total Cost/Unit	Amount	Totals	Rate
Data Comm Network Media	LS	1	$2,520,000	$2,520,000		
Subtotal Direct Costs[a]				$2,520,000	**$2,520,000**	
Sales Tax				$182,700		7.25%
Subtotal with Sales Tax				$2,279	**$2,522,279**	
General Conditions				$151,337		6.00%
Subtotal with General Conditions				$2,023	**$2,524,302**	
Mobilization/Demobilization				$75,729		3.00%
Prime Contractor Overhead				$260,003		10.00%
Prime Contractor Profit				$171,602		6.00%
Bonds and Insurance				$65,787		2.17%
Subtotal with Prime Markups				$573,121	**$3,097,423**	
Contractor Contingency				$92,923		3.00%
Design Contingency				$929,227		30.00%
Subtotal with Contingency				$1,022,149	**$4,119,572**	

[a] Direct costs include labor costs, material costs, subcontractor costs, and equipment costs.

LS = Lump Sum

Attachment 1
Data Network Architecture Draft TM

Data Communications Network Architecture
Draft Technical Memorandum

To:	Sites Project Authority
CC:	Henry Luu, P.E./HDR
Date:	September 8, 2023
From:	Michael Johnson, P.E./Jacobs
Quality Review:	Derek Johnson, P.E./Jacobs; Pete Rude, P.E./Jacobs
Authority Agent Review:	
Project Feature:	Project Wide Communications Network

1.0 Network Design Criteria

1.1 Executive Summary

The purpose of this technical memorandum (TM) is to recommend a data network that meets all data communications requirements and provide a relative cost for installation. This TM describes the data communications architecture for the supervisory control and data acquisition (SCADA), information technology (IT), and security systems serving the Sites Reservoir project. The architecture connects 2 major data centers and up to 21 remote data nodes that require high-speed, reliable data communications throughout construction and long-term operations.

Section 1 defines network design criteria, provides a network block diagram, and includes installation notes. Section 1 also identifies potential routes for each connection, using planned overhead (OVH) power transmission lines and underground (UDG) pipeline/road modifications for fiber-optic routes. Where fiber-optic connections are infeasible, radio media (satellite, microwave, cellular) options are identified.

Section 2 quantifies relative costs for network installation. It confirms the preference for fiber optics wherever feasible and evaluates the options of satellite and microwave media for the Sites saddle dams.

Section 3 summarizes all network installation relative costs and recommends network media for all routes. Based on the recommendations and relative costs described in Section 2, the estimated relative cost to establish data communications network media for the Sites Reservoir project is $2,520,000.

1.2 Data Centers

The data communications network connects two main data centers and several remote nodes, as shown in the Network Block Diagram in Appendix A. The data centers are the Funks Pumping and Generating Plant (PGP) and the Terminal Regulating Reservoir (TRR) PGP located in the Maxwell/Sites Pumping and Generating (MPG) complex. The Administration building is in the Funks PGP. The communications network also monitors up to 21 remote data nodes with instrumentation for level, flow, or power indicators and security video cameras. Remote sites monitor:

- **Water Supplies:** The Sites Reservoir is supplied with water from the Tehama-Colusa Canal Authority (TCCA) pumping plant at Red Bluff and the Glenn-Colusa Irrigation District (GCID) pump station at Hamilton City. The SCADA system monitors flow data from each pump station.

- **MPG Operations:** The Funks and TRR PGPs pump water into Sites Reservoir and generate power when Sites water is delivered. The SCADA system monitors power consumed from Pacific Gas & Electric (PGE) at the point of interconnection (POI), flows generated at the inlet/outlet (I/O) tower, and levels at the Golden Gate and Sites dams.

- **Water Delivery:** The MPG delivers water back to GCID and TCCA through the GCID I/O structure at the TRR and the Intake Structure at the Dunnigan Pipeline (DNG). The SCADA system monitors flows at each delivery point.

1.3 Data Networks

The data centers and remote data nodes generally require data communications for the SCADA system, IT/Internet access, and video security cameras. The data communication requirements for the data centers dictate design criteria, such as segregation, redundancy, and bandwidth. The basis of design for the data communication network includes the following criteria:

- **Mission Critical Networks:**

    - **SCADA:** The SCADA system, a mission critical component, continuously monitors process and equipment performance, collects this data for historical trending and analysis, displays performance in real-time, and enables automatic operations where necessary and/or desired. This criticality requires high reliability achieved by using redundancy and recovery strategies. SCADA data typically requires relatively low bandwidth even with thousands of input/outputs at a SCADA-connected site.

    - **IT/Internet:** Access to business applications and the Internet at some sites is also mission critical. Employees access maintenance and financial systems for more efficient and effective maintenance work practices and access the Internet for documentation and diagnostic assistance. IT/Internet access typically requires a low to high range of bandwidth, depending on the data requested in any specific period. The two data centers require IT/Internet access, while IT/Internet access may be limited at some remote nodes.

    - **SCADA Segregation:** Because of the mission critical nature of the SCADA and IT/Internet systems, network segregation is considered industry standard and best practice. Network segregation prevents high data traffic events from overwhelming SCADA-specific data communications.

- **Mission Critical Backbone Links:** Redundancy is considered industry standard and best practice for mission-critical backbone links. The backbone links described in the following points would achieve redundancy by establishing two independent paths between the Funks PGP, the TRR PGP, and PGE POI:

    - **Link 1:** The primary link between the Funks PGP and the TRR PGP data centers is established through a fiber-optic cable buried in the TRR pipeline trench. Redundancy is achieved by an independent path through Links 2 and 3.

- Link 2: The primary link between the Funks PGP and the PGE POI is established by fiber-optic pairs embedded in an optical ground wire (OPGW) installed in the OVH power transmission lines. A secondary link is established through an OPGW in the secondary OVH power transmission line.

- Link 3: The primary link between the TRR PGP and the PGE POI is established by fiber-optic pairs embedded in an OPGW installed in the OVH power transmission lines. A secondary link is established through an OPGW in the secondary OVH power transmission line.

- Mission Supportive Remote Data Nodes:

  - **SCADA Data:** Remote data nodes with surface water elevations, flows, or intrusion sensors will require a reliable network connection with minimal bandwidth and do not require redundancy.

  - **IT/Internet Access:** IT/Internet access may be provided to some remote data nodes.

  - **Video (security cameras):** Video security is mission neutral. Video security cannot prevent malicious activities; it can only record activities to be used as forensic evidence. Video cameras require high bandwidth capacity and must be segregated from the SCADA and IT/Internet networks. Video security systems may be coupled with access control for physical security.

1.4 Physical Media Options

Data communications over long distances (> 300 meters) use either fiber-optic cables, satellite radio, or microwave radio signals. All communication media have inherent characteristics that must be considered when selecting the most appropriate physical media and installation method for a given communication application. These characteristics are described and summarized in Table 1 as follows:

- Capacity (bandwidth based on the frequency range of the underlying electromagnetic waveform)
- Vulnerability (based on sensitivity to electromagnetic interference [EMI])
- Constructability (based on installation and construction requirements)
- Maintenance (based on accessibility, frequency of routine maintenance, and replaceability)
- Relative Cost (based on construction and maintenance [includes leasing] costs)

Table 1. Characteristics of Communication Media Installations

Installation/ Media Option	Capacity	Vulnerability (to EMI)	Constructability	Maintenance	Relative Cost ($)
Overhead/ Fiber Optic	500 THz	N/A	Use OPGW for new transmission lines.	Splices every 3-5 miles	$$ initial cost $ maintenance
Underground/ Fiber Optic	500 THz	N/A	Use concrete-encased conduits or direct burial in ROW for pipelines.	Splices every 3-5 miles	$$$ initial cost $ maintenance
Leased/Satellite Radio	3 GHz	High	Building or pole mounted dish antennas	Covered by lease agreement	$ initial cost $$$ maintenance
Leased Cellular/	900 MHz	Medium	Building or pole mounted Yagi antennas, signals may be unavailable	Covered by lease agreement	$ initial cost $$ maintenance

Installation/ Media Option	Capacity	Vulnerability (to EMI)	Constructability	Maintenance	Relative Cost ($)
Unlicensed Microwave/	900 MHz	Medium	Building or pole mounted Yagi antennas, Omni antenna on TV tower	Antenna replacement	$$$ initial cost $ maintenance
Licensed Microwave/	450 MHz	Low	Building or pole mounted Yagi antennas, Omni antenna on TV tower	Antenna replacement	$$$ initial cost $ maintenance

GHz = gigahertz
MHz = megahertz
OPGW = optical ground wire
ROW = right-of-way
THz = terahertz

1.5 Installation Notes

Whenever feasible, the construction of fiber-optic-based communications routes for the Sites Reservoir project will use planned OVH power transmission lines, concrete encased conduits within planned pipeline, transmission line, or road ROWs, or direct burial. Overhead fiber-optic installation will use OPGW when available to protect fiber-optic communications. Underground fiber-optic installation will use concrete-encased conduits or direct burial in ROW for power lines, roads, and or tunnels to provide similar protection. Aerial fiber-optic (unprotected overhead) installation is not recommended. Termination panels will be installed inside or on the structures. The environmental impact of network construction is considered negligible.

The constructability of radio-based communications systems, whether satellite or microwave, relies on clear lines of sight to provide reliable signal strength. Leased systems (satellite and cellular) depend on the availability of power to radio transmitters for signal strength. Cellular signals are assumed to be available for the Colusa Basin Drain (CBD) discharge and the Tehama-Colusa Canal (TCC) intake at the DNG, as well as the Red Bluff pumping plant and the GCID pump station. At the Sites Reservoir, cellular signals are assumed to be unavailable, while satellite signals are assumed to be available.

The signal strength of microwave systems (licensed and unlicensed) depends on elevation to clear most obstacles in the lines of sight. Most receiving antennas will need to be 20 to 30 feet high to clear undergrowth and most trees. Geologic topology and buildings may be significant obstacles within the MPG. A microwave radio system will require an omni-directional antenna (most likely at or near Funks PGP), and a directional antenna (Yagi antenna) at each remote facility pointed toward Funks PGP.

Appendix B includes installation details for both Yagi and Omni microwave antenna mounts on either buildings or poles. Table 2 summarizes the general specifications for Yagi and Omni antennas.

Table 2. Microwave Antenna Specifications

Antenna Type	Dimensions Length x Width (inches)	Structural Height (feet)	Color	Footprint
Yagi (directional) (pole mount)	36” x 8”	20’ – 30’	Bronze or Aluminum (pole can be painted)	3’ x 3’ concrete base
Yagi (directional) (building mount)	36” x 8”	20’ – 30’	Bronze or Aluminum	N/A
Omni-directional (building mount)	36” x 3”	20’ – 30’	Bronze or Aluminum	N/A

1.6 Media and Installation Recommendations

For high-speed, reliable data communications on this project, fiber optic is the preferred media. Because most locations require power transmission lines, OVH fiber-optic cable installation using OPGW is the recommended installation method. UDG installation is used as needed for redundancy or in the absence of OVH transmission lines. Underground installation assumes direct burial in ROW (UDGA) or concrete-encased dedicated conduits in pipeline trenches (UDGB). In remote facilities where fiber-optic media are cost-prohibitive, leased cellular media are recommended. At the Sites Reservoir, or other facilities where cellular service is unavailable or unreliable, leased satellite service is recommended.

The Network Block Diagram shows potential fiber-optic routes to establish the network backbone links and either fiber or radio connections to all facilities and remote data points. The Network Installation Relative Costs section summarizes the network cost investigation so far. Appendix C shows the network connection points on the MPG, DNG, and Sites Reservoir location plans.

2.0 Network Installation Relative Costs

Connecting the two data centers and the PGE POI with a fiber-optic system requires point-to-point routes. Each point would be defined by the facility location. Direct connections would require OVH or UDG installation. New fiber-optic cable must be installed for the network backbone and remote facilities within the MPG. For relative cost estimating, each fiber-optic route assumes the same cost estimating guidelines detailed in the following paragraph. Network equipment costs are not included in this cost estimate.

Fiber cable and installation cost estimating guidelines are listed in ascending order of cost/mile:

1. 6-pair, single-mode cable with innerduct $6,000/mile
2. 24-pair, single-mode cable with innerduct $16,000/mile
3. 24-pair, single-mode cable in OPGW $26,000/mile
4. OVH installation using OPGW $26,000/mile
5. UDGA direct burial (plowing into ground along ROW) $70,000/mile
6. UDGB duct bank (trench and cover 2 concrete-encased 2-inch conduits along ROW) $100,000/mile

2.1 Network Route Groups

For cost estimating, the network routes are organized into four groups (Backbone Fiber, Remote Fiber, Remote Cellular [outside MPG], and Remote Satellite [Sites Reservoir]), as shown in Table 3.

Table 3. Network Route Groups

ID	Start Point	End Point	ID	Start Point	End Point
Backbone Fiber			**Sites Reservoir**		
B01	Funks PGP (Link 1)	TRR PGP	S01	Funks PGP	Golden Gate Dam
B02	Funks PGP (Link 2)	PGE POI (x2)	S02	Funks PGP	Saddle Dam 1
B03	TRR PGP (Link 3)	PGE POI (x2)	S03	Funks PGP	Saddle Dam 2
Remote Fiber (within MPG)			S04	Funks PGP	Saddle Dam 3
F01	TRR PGP	TRR I/O	S05	Funks PGP	Saddle Dam 5
F02	Funks PGP	Sites Dam Tunnel East	S06	Funks PGP	Saddle Dam 6

ID	Start Point	End Point	ID	Start Point	End Point
F03	Sites Dam Tunnel East	Sites Dam Tunnel West	S07	Funks PGP	Saddle Dike 1
F04	Funks PGP	Environ. Water Pipeline	S08	Funks PGP	Saddle Dam 8A
F05	Environ. Water Pipeline	I/O Tower East	S09	Funks PGP	Saddle Dam 8B
F06	I/O Tower East	I/O Tower West	S10	Funks PGP	Saddle Dike 2
Remote Cellular (operational points outside MPG)					
R01	Funks PGP	TCCA Pumping Plant			
R02	Funks PGP	GCID Pump Station			
R03	Funks PGP	CBD Discharge			
R04	Funks PGP	TCC Intake			

2.2 Backbone Fiber Group

The Backbone Fiber Group of network routes connects the Funks PGP and TRR PGP data centers to each other and the PGE POI through fiber-optic routes. Link 1 (Funks PGP to TRR PGP) is established by two concrete-encased fiber-optic routes for maximum protection. Links 2 and 3 are established by installing two OPGW from each data center to the PGE POI. The Backbone Fiber Group assumes 24 fiber pairs for all routes. Relative estimated costs for the Backbone Fiber Group routes are shown in Table 4.

Table 4. Backbone Fiber Group Network Routes and Relative Costs

Route ID	OVH Miles	UDGA Miles	UDGB Miles	Total Miles	Cable Cost	Installation Cost	Total Cost
B01			2	2	$32,000	$200,000	$232,000
B02	2.5			5	$130,000	$130,000	$260,000
B03	0.5			1	$52,000	$26,000	$78,000
					$214,000	$356,000	$ 570,000

Backbone route details, such as OVH and UDG mileages and locations, are shown in Appendix C.

2.3 Remote Fiber Group

The Remote Fiber Group of network routes connects the TRR West I/O to the TRR PGP data center; the Sites Dam diversion tunnel east portal, Environmental Water Pipeline, and I/O Tower east portal to the Funks PGP data center; and the CBD discharge to the TCC intake. Each connection is established by direct burial fiber routes and assumes six fiber pairs. Relative estimated costs for the Remote Fiber Group routes are shown in Table 5.

Table 5. Remote Fiber Group Network Routes and Relative Costs

Route ID	OVH Miles	UDGA Miles	UDGB Miles	Total Miles	Cable Cost	Installation Cost	Total Cost
F01		2.25		2.25	$14,000	$158,000	$172,000
F02		4		4	$24,000	$280,000	$304,000
F03		0.5		0.5	$3,000	$35,000	$38,000

Route ID	OVH Miles	UDGA Miles	UDGB Miles	Total Miles	Cable Cost	Installation Cost	Total Cost
F04		1		1	$6,000	$70,000	$76,000
F05		1.5		1.5	$9,000	$105,000	$114,000
F06		1		1	$6,000	$70,000	$76,000
					$62,000	$718,000	$780,000

Remote fiber route details, such as OVH and UDG mileage and locations, are shown in Appendix C.

2.4 Remote Radio Groups

Remote network routes connect the Funks PGP with operational points (outside the MPG) and Sites Reservoir saddle dams. Both groups require radio communications, based on satellite, microwave, or cellular links.

Radio installation and leasing cost estimating guidelines are as follows:

- Omni/Yagi antenna, cables, and installation $ 15,000
- Starlink Satellite Service (1 terabytes/month) annual lease $ 3,000
- 40’ retractable monopole with low power solar panel installation $50,000
- Licensed microwave (450 MHz) annual license fee $400
- Verizon Cellular Service (10 gigabytes/month) annual lease $ 600

The Remote Cellular Group connects the Red Bluff pumping plant, the GCID pump station, and the DNG to the Funks PGP data center. Each connection is established by a cellular radio link. For relative cost estimating, each route assumes the same guidelines listed above. Radio equipment costs are not included in this cost estimate.

For relative cost estimating, each route assumes one antenna installation at each end point, and annual leasing costs for 25 years (equivalent to assumed fiber-optic life cycle). Relative cost estimates for the Remote Radio Group routes are shown in Table 6.

Table 6. Remote Cellular Group Network Routes and Relative Costs

Route ID	Satellite	Cellular	Microwave	Installation Costs	Leasing Costs (25 years)	Total Cost
R01		X		$15,000	$15,000	$30,000
R02		X		$15,000	$15,000	$30,000
R03		X		$15,000	$15,000	$30,000
R04		X		$15,000	$15,000	$30,000
				$60,000	$60,000	$120,000

2.5 Sites Reservoir Group

The Sites Reservoir Group connects the Sites Reservoir, including the Golden Gate Dam, and nine saddle dams/dikes, to the Funks PGP. Two options are evaluated; satellite and solar-powered licensed microwave (450 MHz). Cellular microwave (900 MHz) is unavailable in the Sites Reservoir area and unlicensed microwave (900 MHz) requires more power, either utility power, or a substantial solar array

with large battery backup. These options will incur significantly higher relative costs than satellite or licensed microwave (450 MHz).

For relative cost estimating, each route assumes the same cost estimating guidelines listed above. Relative cost estimates using satellite communications are shown in Table 7. Radio equipment costs are not included in this estimate.

Table 7. Sites Reservoir Group Network Routes and Relative Costs using Satellite

Route ID	Satellite	Cellular	Microwave	Installation Costs	Leasing Costs (25 years)	Total Cost
S01	X			$15,000	$75,000	$90,000
S02	X			$15,000	$75,000	$90,000
S03	X			$15,000	$75,000	$90,000
S04	X			$15,000	$75,000	$90,000
S05	X			$15,000	$75,000	$90,000
S06	X			$15,000	$75,000	$90,000
S07	X			$15,000	$75,000	$90,000
S08	X			$15,000	$75,000	$90,000
S09	X			$15,000	$75,000	$90,000
S10	X			$15,000	$75,000	$90,000
				$135,000	$675,000	$810,000

Relative cost estimates using licensed microwave (450 MHz) communications are shown in Table 8. Installation costs include a retractable 40’ monopole, solar panel, cables, and antenna. In addition to the 11 sites, this relative cost estimate includes 4 master station radios to be located at high points around the Sites Reservoir and assumes $500 per year in licensing fees. Radio equipment costs are not included in this estimate.

Table 8. Sites Reservoir Group Network Routes and Relative Costs using 450 MHz Microwave

Route ID	Satellite	Cellular	Microwave (450 MHz)	Installation Costs	Licensing Costs (25 years)	Total Cost
S01			X	$65,000	$10,000	$75,000
S02			X	$65,000	$10,000	$75,000
S03			X	$65,000	$10,000	$75,000
S04			X	$65,000	$10,000	$75,000
S05			X	$65,000	$10,000	$75,000
S06			X	$65,000	$10,000	$75,000
S07			X	$65,000	$10,000	$75,000
S08			X	$65,000	$10,000	$75,000
S09			X	$65,000	$10,000	$75,000

Route ID	Satellite	Cellular	Microwave (450 MHz)	Installation Costs	Licensing Costs (25 years)	Total Cost
S10			X	$65,000	$10,000	$75,000
MS01			X	$65,000	$10,000	$75,000
MS02			X	$65,000	$10,000	$75,000
MS03			X	$65,000	$10,000	$75,000
MS04			X	$65,000	$10,000	$75,000
				$910,000	$140,000	$1,050,000

Both satellite and licensed 450 MHz microwave communications meet the requirements for SCADA data communications from the saddle dams to the Funks PGP at comparable costs. However, as summarized in Table 1, each option includes significant differences in bandwidth capacity, EMI vulnerability, and constructability. While satellite communications bandwidth can easily support video security camera transmission, it is also highly vulnerable to EMI disruption. Table 7 and Table 8 show relative costs in constructability. Table 7 shows initial installation costs for a satellite system are low, while long-term leasing costs are high. Table 8 shows initial installation costs for a 450 MHz microwave system are high, while the long-term licensing costs are low.

Network design criteria defines SCADA data as mission critical, video surveillance as mission neutral, and requires segregating, even isolating, the SCADA network from all other networks. A licensed 450 MHz microwave system offers adequate bandwidth for SCADA data requirements, low vulnerability to EMI, a network dedicated to SCADA data only, and low long-term licensing costs. Therefore, constructing and licensing a 450 MHz microwave system for the Site Reservoir Group network is recommended.

3.0 Summary

Based on the facilities identified in the Sites Project, with the administrative center located in the Funks PGP and assuming three distinct (SCADA, IT, Security) data networks, a network architecture (shown in Appendix A) was developed as the proposed data communications design approach. Based on mission criticality and performance requirements, network design criteria were defined, including segregation, redundancy, and bandwidth. With the network architecture and design criteria defined, all long distance (>300 meters) media alternatives were evaluated. The following network media approaches are recommended:

- Fiber-optic media wherever feasible within the MPG
- Radio-based media for remote facilities to connect to the Funks PGP (specific radio media and installation details to be determined during final design, based on the most competitive (leased satellite or licensed microwave) options available.

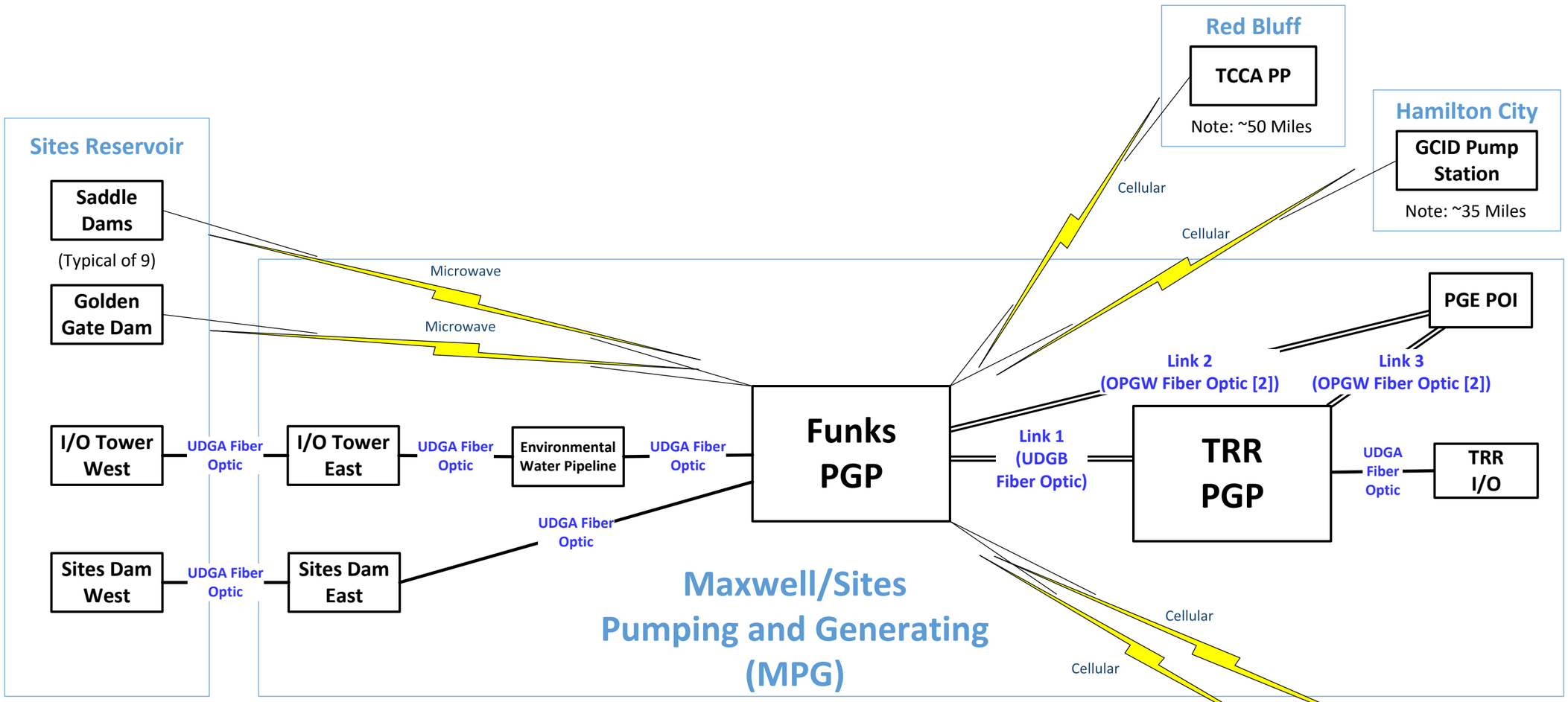
Relative costs for the data communications network installation are summarized in Table 9.

Table 9. Network Installation Relative Costs

Route Group	Material Costs	Installation Costs	Leasing/Licensing Costs (25 years)	Total Costs
Backbone Fiber	$214,000	$356,000		$570,000
Remote Fiber	$62,000	$718,000		$780,000
Remote Cellular		$60,000	$60,000	$120,000
Sites Reservoir		$910,000	$140,000	$1,050,000
	$276,000	$2,044,000	$200,000	$ 2,520,000

Appendix A
Network Block Diagram

Sites Conceptual Network Block Diagram



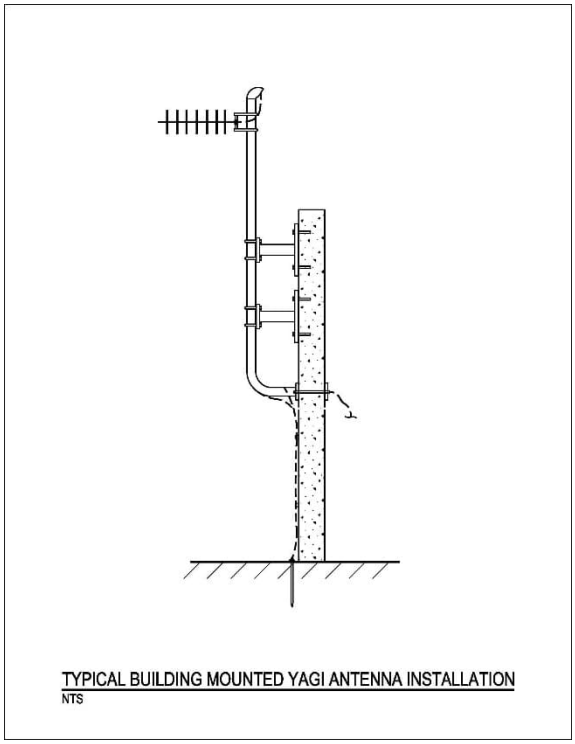
Assumptions:

- All remote sites shown assume one security camera, except for microwave sites.
- Overhead OVH fiber optic assumes installation with optical ground wire (OPGW).
- OPGW can accommodate up to 24 pairs (48 fibers).
- UDGA fiber optic assumes direct burial in right of way (ROW).
- UDGB fiber optic assumes concrete-encased conduit in pipeline trenches.

Facility Acronym Definitions:

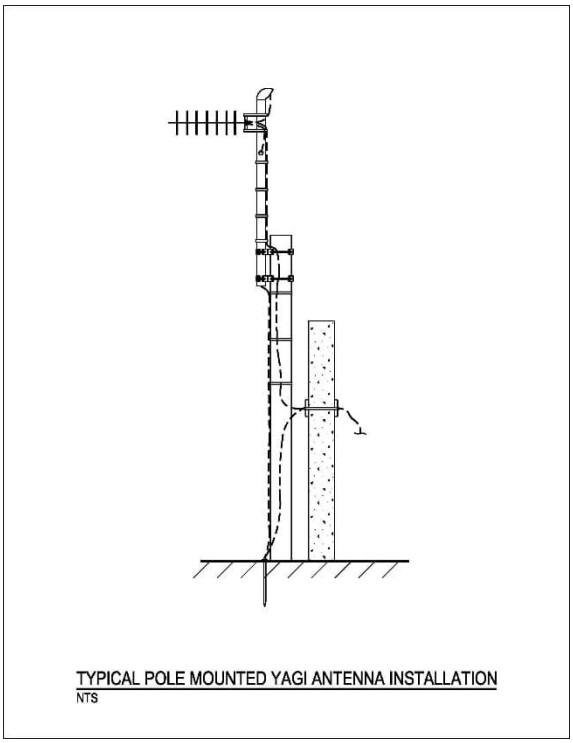
CBD	Colusa Basin Drain
DNG	Dunnigan Pipeline
I/O	Inlet/Outlet
MPG	Maxwell/Sites Pumping and Generating
PGE	Pacific Gas & Electric
PGP	Pumping and Generating Plant
POI	Point of Interconnection
TCC	Tehama Colusa Canal
TRR	Terminal Regulating Reservoir

Appendix B
Antenna Installation Details



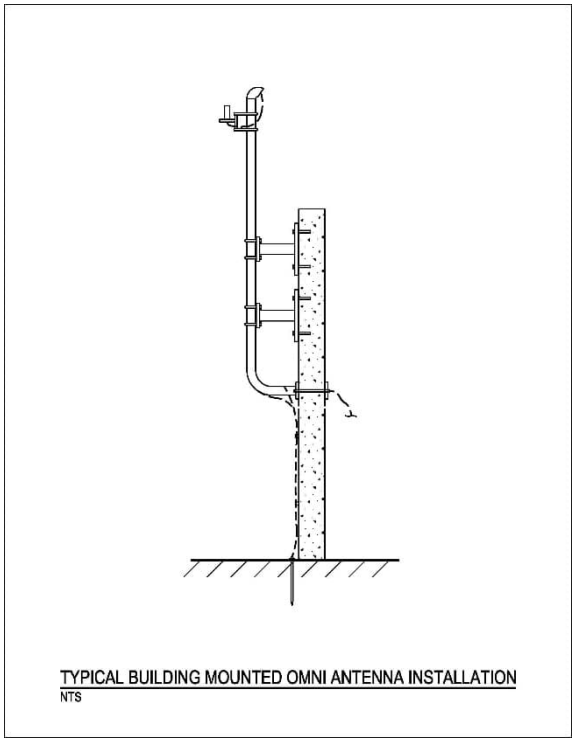
TYPICAL BUILDING MOUNTED YAGI ANTENNA INSTALLATION
NTS

Figure 4



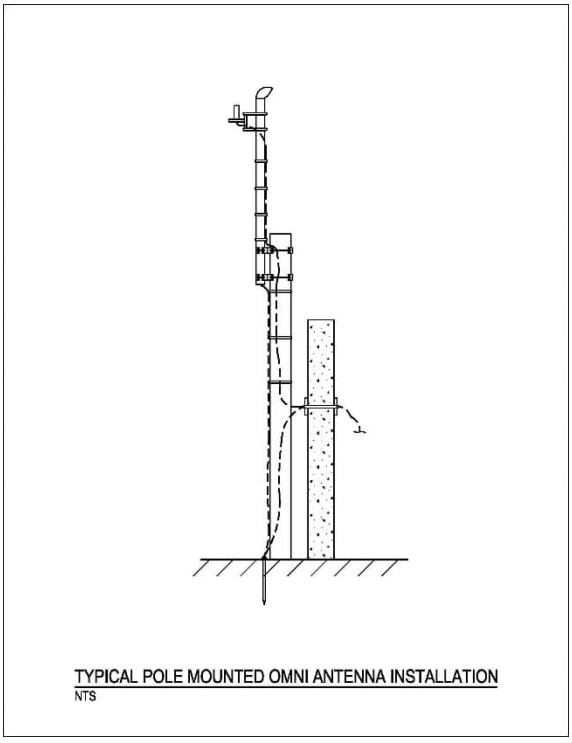
TYPICAL POLE MOUNTED YAGI ANTENNA INSTALLATION
NTS

Figure 3



TYPICAL BUILDING MOUNTED OMNI ANTENNA INSTALLATION
NTS

Figure 2



TYPICAL POLE MOUNTED OMNI ANTENNA INSTALLATION
NTS

Figure 1

Appendix C
Location Plans

MPG
MAXWELL / SITES
PUMPING AND GENERATING
JACOBS / GEOSYNTEC / VANDERWEIL

STS
SITES
RESERVOIR
(AECOM)

SITES RESERVOIR SHORELINE
GOLDEN GATE DAM
INLET / OUTLET TUNNEL TO SITES RESERVOIR
ENVIRONMENTAL WATER PIPELINE
TRR PIPELINES
FUNKS PUMPING GENERATING PLANT
FUNKS FLOW CONTROL/ENERGY DISSIPATION VALVES
TRR PIPELINES
FUNKS PIPELINES
OVERHEAD ELECTRICAL TO INLET / OUTLET TOWER
FNK PGP
FNK FUNKS RESERVOIR (EXIST)
OVERHEAD TRANSMISSION
TRR PGP
TRR PUMPING GENERATING PLANT
TRR FLOW CONTROL/ENERGY DISSIPATION VALVES
PGE POINT OF INTERCONNECTION SWITCH YARD
TRR TERMINAL REGULATING RESERVOIR
TERMINAL REGULATING RESERVOIR
TRR–FUNKS ACCESS ROAD
PGE OVERHEAD TRANSMISSION EXIST
FUNKS DAM
FUNKS CREEK
TEHAMA COLUSA CANAL
WAPA OVERHEAD TRANSMISSION EXIST
SITES RESERVOIR SHORELINE
TRR–FUNKS ACCESS ROAD
MAXWELL SITES ROAD
SITES DAM
OVERHEAD ELECTRICAL TO SITES DAM
Maxwell Sites Rd
DELEVAN ROAD
GCID CANAL
McDermott Rd
MCDERMOTT ROAD
GCID CANAL
Glenn-Colusa Canal
McDermott Rd
Glenn-Colusa Canal

FEATURE CODE
0000 - GEX-General Existing
0001 - GEN-General
0005 - GEN-Demolition
0010 - GEN-Geotech
0015 - GEN-General Property
0020 - GEN-Temporary Construction Facilities
0025 - GEN-Temporary Batch Plant
0045 - GEN-Site Civil
0050 - GEN-Pipeline
0055 - GEN-Site Landscape
0060 - GEN-Site Electrical
0065 - GEN-Instrumentation_and_Controls
0070 - GEN-Site Security
0075 - GEN-Off-Site Utilities
0080 - GEN-Administration and Maintenance Building
0085 - GEN-Diesel and Gasoline Fuel Storage Facility
2005 - MPG-Access Roads
2010 - MPG-PGP-Transmission
2015 - MPG-Point of Interconnection Switch Yard

FNK - FUNKS RESERVOIR
MPG - MAXWELL / SITES PUMPING AND GENERATING
PGP - PUMPING AND GENERATING PLANT
STS - SITES RESERVOIR
TRR - TERMINAL REGULATING RESERVOIR

FUNKS AND TRR PLAN
SCALE: 1" = 1000'

NORTH
0 1000' 2000'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: W OHLIN
IN CHARGE: P RUDE
DATE: 02-02-23

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER – STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
MPG – FIGURE 1
SITES / MAXWELL PUMPING AND GENERATING OVERALL LOCATION PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG_FIG-1

PLOTTED BY:CAVE, DAVID -February 2, 2023-3:44:42 PM
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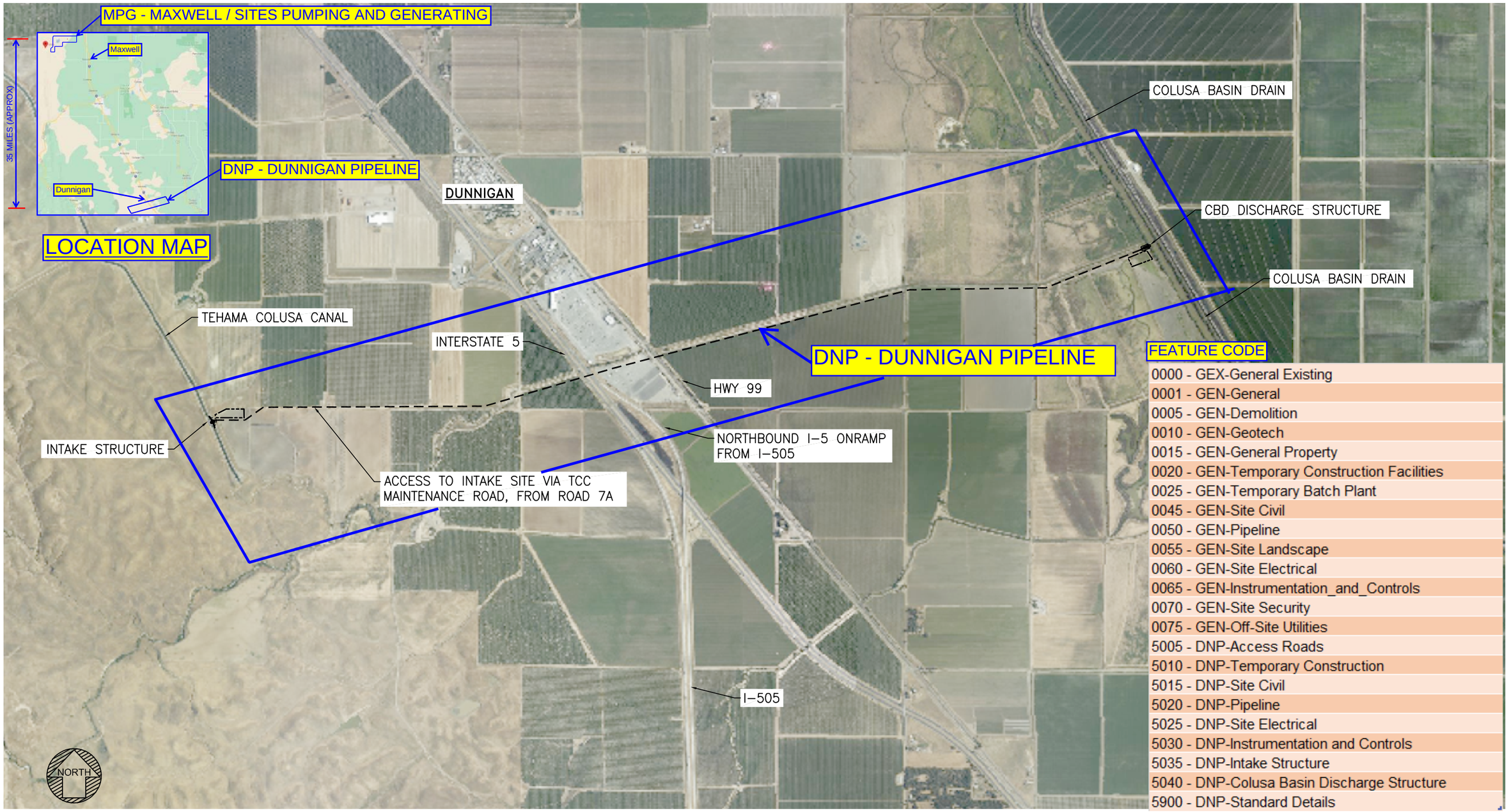
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 1000'

FEATURE CODE
0000 - GEX-General Existing
0001 - GEN-General
0005 - GEN-Demolition
0010 - GEN-Geotech
0015 - GEN-General Property
0020 - GEN-Temporary Construction Facilities
0025 - GEN-Temporary Batch Plant
0045 - GEN-Site Civil
0050 - GEN-Pipeline
0055 - GEN-Site Landscape
0060 - GEN-Site Electrical
0065 - GEN-Instrumentation_and_Controls
0070 - GEN-Site Security
0075 - GEN-Off-Site Utilities
5005 - DNP-Access Roads
5010 - DNP-Temporary Construction
5015 - DNP-Site Civil
5020 - DNP-Pipeline
5025 - DNP-Site Electrical
5030 - DNP-Instrumentation and Controls
5035 - DNP-Intake Structure
5040 - DNP-Colusa Basin Discharge Structure
5900 - DNP-Standard Details

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

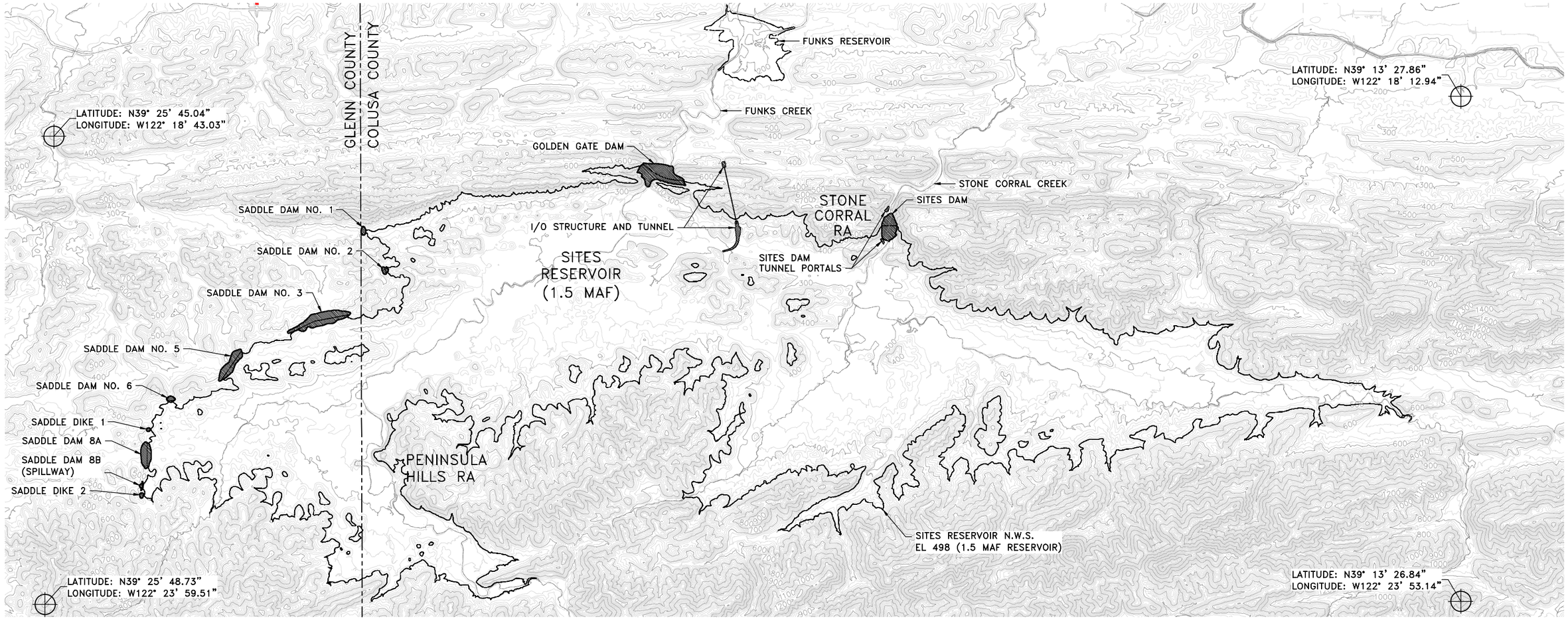
SITES RESERVOIR TO 2
DNP – FIGURE 1
DUNNIGAN PIPELINE
OVERALL LOCATION PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNP-_FIG-1

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID -February 14, 2023-3:44:42 PM
DRAWING: DNP-FIG_1-DNG-030-C-2000.dwg
JACOBS PROJECT # D3880600



NORTH

0 1/2 1

1" = 1/2 MILE

RESERVOIR AREA–CAPACITY DATA

ELEVATION (ft)	AREA (acre)	CAPACITY (acre–ft)
320	2,390	50,100
340	3,830	112,400
360	5,260	200,600
380	6,510	320,800
400	7,700	462,100
420	9,120	631,500
440	1,060	824,000
460	11,320	1,040,400
480	12,330	1,276,900
498	13,158	1,507,930
500	13,250	1,533,600
520	14,130	1,807,500
540	14,970	2,096,900

NOTES

1. MAP PROJECTION: NAD 1983 STATE PLANE ZONE II
2. RESERVOIR AREA–CAPACITY DATA FROM THE 2004 DWR SITES RESERVOIR PMF ANALYSIS REPORT

CERTIFICATE OF ENGINEER

I, Michael Smith, of AECOM do hereby certify that this map was prepared under my immediate supervision using the U.S. Geological 2018–2019 LiDAR: Northern California Wildfire – QL1 survey and that it correctly represents the project described in the accompanying application consistent with the 10% design as of November 8, 2021 and shows the location of streams in the immediate vicinity.

Michael Smith_____

(November 8, 2021)

California Civil Engineer Certificate No.42978

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:
DRAWN BY:
CHECKED BY:
IN CHARGE:
DATE: 11/8/2021

AECOM
2020 L Street, Suite 400
Sacramento, CA 95811
TEL: (916) 414–5800
FAX: (916) 414–5850

Sites

SITES RESERVOIR
SITES RESERVOIR DAMS
GENERAL
MAIN DAMS AND SADDLE DAMS – LOCATION PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
STS–315–C–2001

DRAFT – PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:LECLUSE, RION -December 14, 2021-3:44:42 PM
DRAWING: pw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60641055-Sites Reservoir TO 2\900-CAD GIS\910_CAD\20_SHEETS\STS-315-C-2001_60641055.dwg