

# SITES RESERVOIR

## MAXWELL / SITES PUMPING AND GENERATING PROJECT

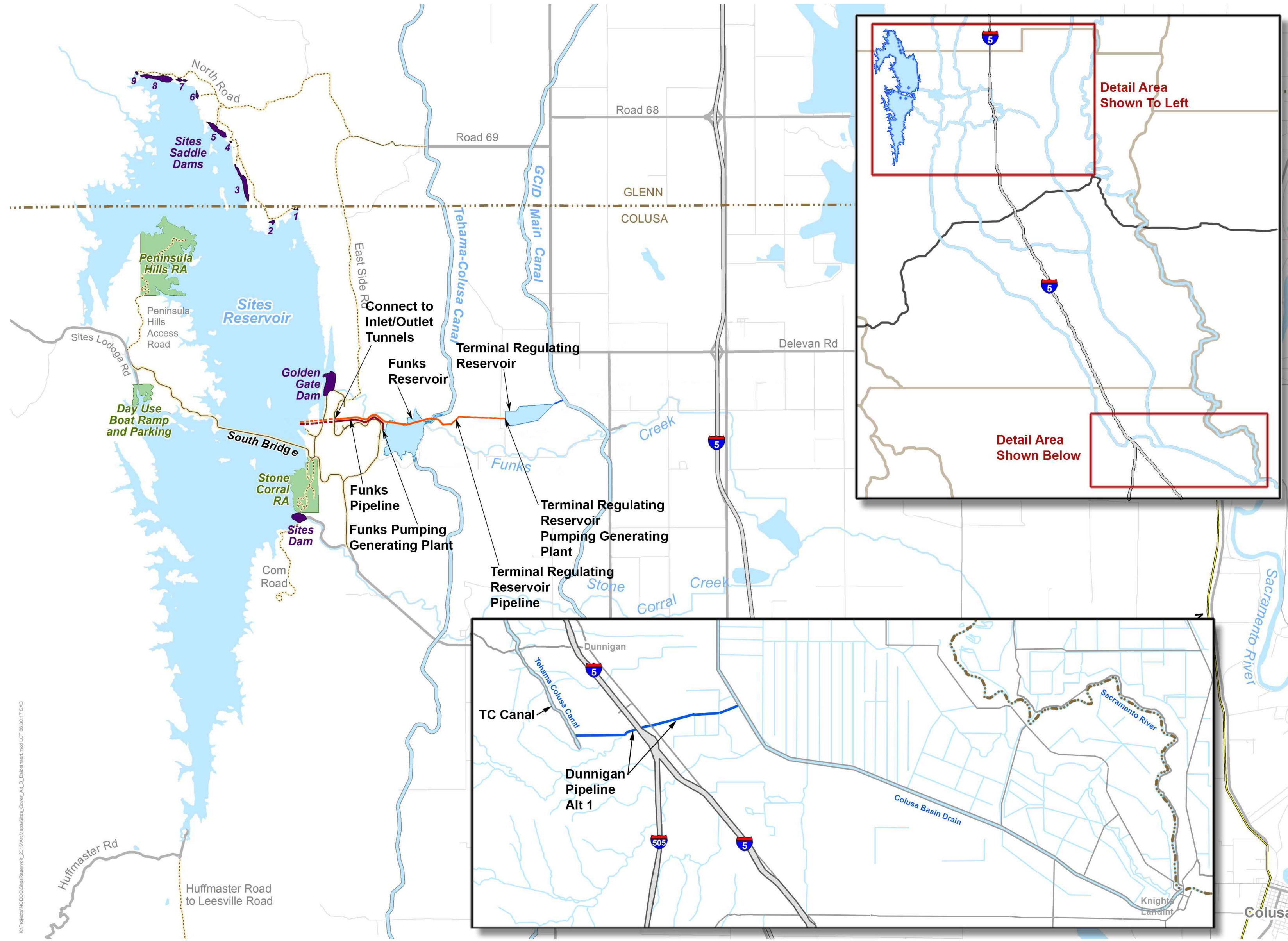
### FUNKS PUMPING AND GENERATING PLANT

#### 30% DESIGN - CLIENT REVIEW

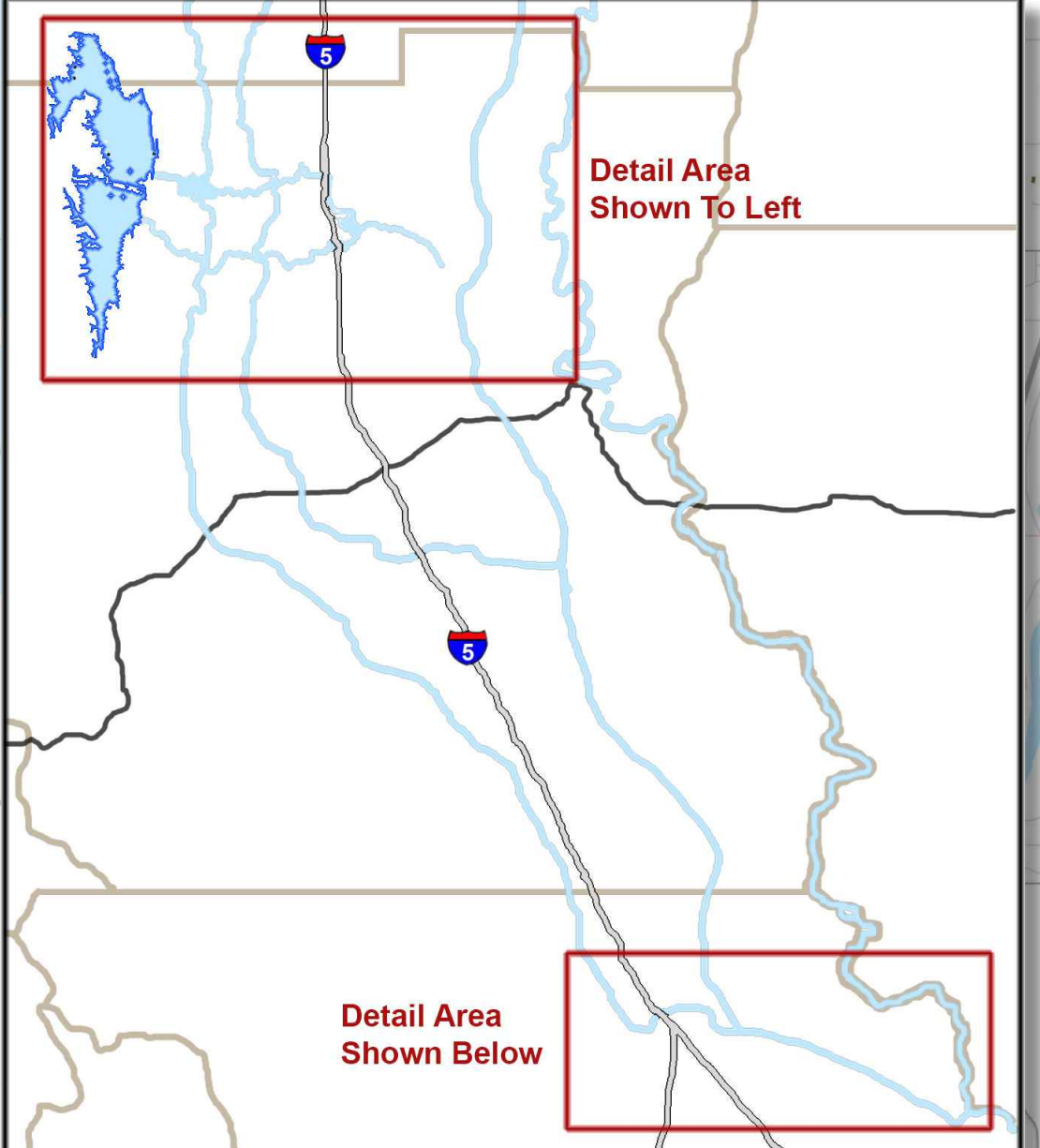
#### OCTOBER 17, 2023



PROJECT LOCATION MAP



OVERALL PROJECT SITE MAP - DUNNIGAN PIPELINE NOT INCLUDED IN THIS PACKAGE



Plot Date: 10/16/2023 11:09 AM File: C:\pwworking\hdr\_sites\_reservoir\dms01711\MPG-0001-G-0001\_FNK.dwg Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:  
D. CAVE  
DRAWN BY:  
D. CAVE  
CHECKED BY:  
W. OHLIN  
IN CHARGE:  
P. RUDE  
DATE:  
10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
WAYNE J. OHLIN  
72287  
CALIFORNIA



**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL  
COVER SHEET,  
LOCATION MAP AND SITE MAP

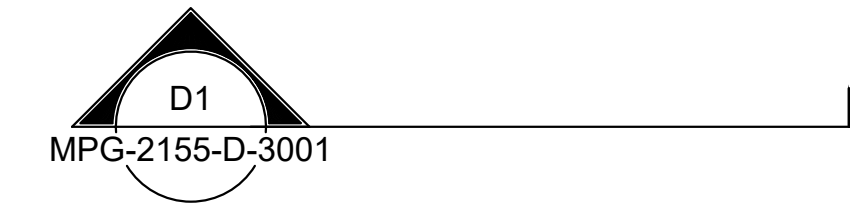
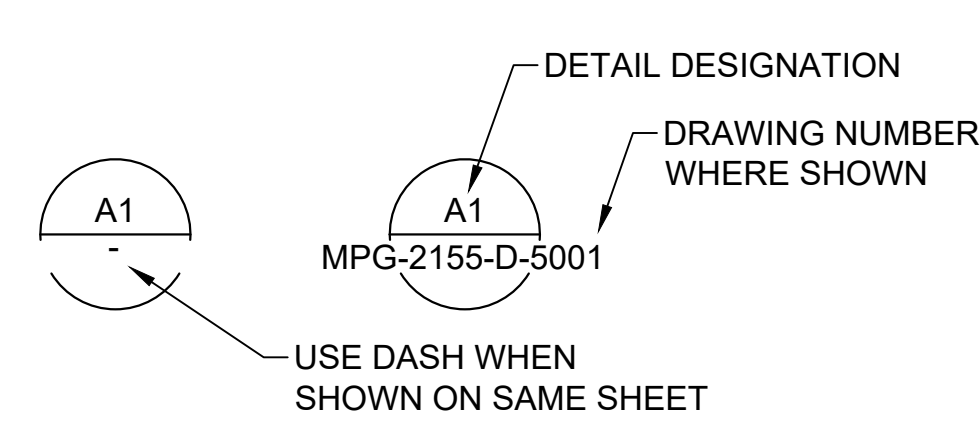
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BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
0 1"  
DRAWING NO.  
MPG-0001-G-0001  
SHT 1 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL SYMBOLS**

**DRAWING NUMBERING LEGEND**



0330-056 STANDARD DETAIL

ON DRAWING WHERE DETAIL OR SECTION IS CALLED OUT



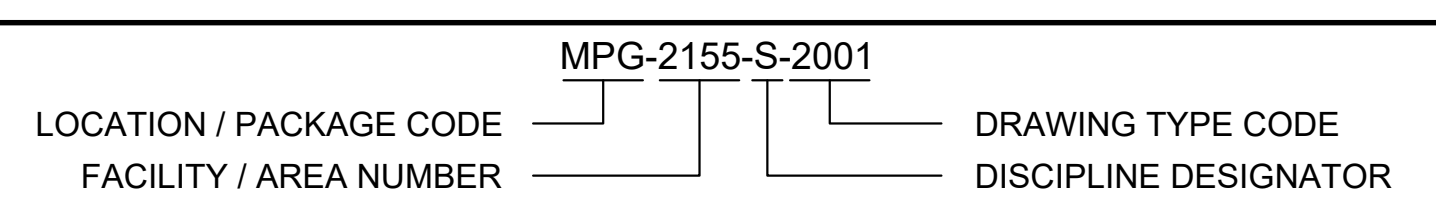
MPG-2155-D-2001



MPG-2155-D-2001

STANDARD DETAIL NAME NTS 0330-056  
STANDARD DETAIL NUMBER

ON DRAWING WHERE DETAIL OR SECTION IS SHOWN



LOCATION / PACKAGE NUMBER AND CODE	FACILITY / AREA NUMBER	DISCIPLINE DESIGNATOR	DRAWING TYPE CODE
1- STS - SITES RESERVOIR 2- MPG - MAXWELL / SITES PUMPING AND GENERATING 3- SCD - RESERVOIR CLEARING AND DEMOLITION 4- HFR - HUFFMASTER ROAD 5- DNP - DUNNIGAN PIPELINE 6- CCA - TEHAMA-COLUSA CANAL AUTHORITY 7- CID - GLENN-COLUSA IRRIGATION DISTRICT 8- REC - SITES RECREATION 9- MIT - SITES MITIGATION	0001 - GENERAL 0010 - GEOTECH 0045 - OVERALL SITE CIVIL 0060 - OVERALL SITE ELECTRICAL 0065 - INSTRUMENTATION AND CONTROLS 2005 - ACCESS ROADS 2010 - TRANSMISSION 2015 - PGE SUBSTATION 2030 - VALVE VAULT 2040 - ENVIRONMENTAL WATER PIPELINE DISSIPATION STRUCTURE 2100 - FNK - TEMPORARY CONSTRUCTION 2105 - FNK - SITE CIVIL 2107 - FNK - RETAINING WALL 2110 - FNK - YARD PIPING 2115 - FNK - RESERVOIR 2120 - FNK - PIPELINE 2125 - FNK - SITE AND GENERAL ELECTRICAL 2130 - FNK - SUBSTATION 2135 - FNK - INSTRUMENTATION AND CONTROLS 2140 - FNK - TRANSMISSION 2145 - FNK - ADMINISTRATION AND OPERATIONS BUILDING 2150 - FNK - MAINTENANCE AND STORAGE BUILDING 2155 - FNK - PUMPING PLANT 2160 - FNK - SWITCHGEAR BUILDING 2161 - FNK - EMERGENCY GENERATOR 2165 - FNK - GENERATING PLANT 2170 - FNK - CHILLER YARD 2171 - FNK - HVAC BUILDING 2175 - FNK - FUNKS EMERGENCY DISSIPATION STRUCTURE 2180 - FNK - FIRE WATER TANK 2181 - FNK - FIRE WATER PUMPING PLANT 2185 - FNK - SURGE CONTROL SYSTEM 2190 - FNK - FLOW METER VAULT 2200 - TRR - TEMPORARY CONSTRUCTION 2205 - TRR - SITE CIVIL 2207 - TRR - SHEET PILE WALL 2210 - TRR - YARD PIPING 2215 - TRR - RESERVOIR 2220 - TRR - PIPELINE 2225 - TRR - SITE ELECTRICAL 2230 - TRR - SUBSTATION 2235 - TRR - INSTRUMENTATION AND CONTROL 2240 - TRR - TRANSMISSION 2245 - TRR - CHECK STRUCTURE 2255 - TRR - PUMPING PLANT 2260 - TRR - SWITCHGEAR BUILDING 2261 - TRR - EMERGENCY GENERATOR 2265 - TRR - GENERATING PLANT 2270 - TRR - CHILLER YARD 2271 - TRR - HVAC BUILDING 2275 - TRR - ENERGY DISSIPATION STRUCTURE 2280 - TRR - FIRE WATER TANK 2281 - TRR - FIRE WATER PUMPING PLANT 2285 - TRR - SURGE CONTROL SYSTEM 2290 - TRR - SPARE 2291 - TRR - CHECK STRUCTURE 1 2292 - TRR - CHECK STRUCTURE 2 2293 - TRR - CHECK STRUCTURE 3 2294 - TRR - CHECK STRUCTURE 4	A - ARCHITECTURAL B - GEOTECHNICAL C - CIVIL D - PROCESS MECHANICAL E - ELECTRICAL F - FIRE PROTECTION FET - FOUNDATION EXCAVATION AND TREATMENT G - GENERAL H - HVAC I - INTERIORS J - PLUMBING K - TRANSMISSION L - LANDSCAPE M - BUILDING MECHANICAL N - INSTRUMENTATION AND CONTROLS P - PIPELINE Q - EQUIPMENT R - ROADWAY S - STRUCTURAL T - TELECOMMUNICATIONS V - SURVEY MAPPING Y - YARD PIPING	0000 - GENERAL AND 3D RENDERINGS 1000 - DEMOLITION 2000 - PLANS AND PLAN AND PROFILE 3000 - SECTIONS, ELEVATIONS AND PROFILES 4000 - ENLARGED PLANS 5000 - DETAILS 6000 - SCHEDULES AND DIAGRAMS 7000 - USER DEFINED 8000 - USER DEFINED 9000 - STD DETAILS

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Saved By: DCAVE

REV	DATE	BY	CHK	P.RU	DESCRIPTION

DESIGNED BY: D. CAVE  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 GENERAL SYMBOLS  
 AND DRAWING NUMBERING LEGEND

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO.  
 MPG-0001-G-0020  
 SHT 5 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

LEGEND AND SYMBOLS

EXISTING FEATURES		PROPOSED FEATURES		EXISTING FEATURES		PROPOSED FEATURES	
	DRAIN ROCK				SLOPE PERCENT OR RISE:RUN		
	FENCE				FLOW ARROW		
	SUBSTATION FENCE				DIRECTION ARROW		
	GATE				WATER SURFACE		
	MAJOR CONTOURS				PIEZOMETER		
	MINOR CONTOURS				EARTH SLOPE		
	SILLO(S), TANK(S)				STEEL CHECKER PLATE		
	TRAFFIC SIGN				BENTONITE CEMENT GROUT		
	FIRE HYDRANT				BENTONITE PELLETT SEAL		
	POST				CUTOFF WALL (DETAILS/SECTIONS)		
	TREE				ORIGINAL GROUND		
	PALM TREE				AGGREGATE BASE		
	BUSH				DAM/LEVEE FILL		
	POLE				DAM/LEVEE EMBANKMENT FILL		
	SURVEY CONTROL POINT				FINE SAND		
	MANHOLE				CONCRETE		
	MISC UTILITY				CLSM		
	UTILITY BOX				ROCK SLOPE PROTECTION		
	TRAFFIC LIGHT				ASPHALT CONCRETE PAVEMENT		
	UTILITY JUNCTION				GRAVEL SURFACING		
	BILLBOARD				CUTOFF WALL (PLANS)		
	CATCH BASIN, RECT				LIMITS OF WORK		
	VA-TRAF-BARR-POST				BREAK LINE		
	COMMUNICATION ANTENNA				PIPE BREAK LINE		
	UTILITY VALVE				CENTERLINE		
	SIGN, REFLECTIVE				SPRING LINE CENTERLINE		
	MAILBOX				DEMOLITION		
	STORM DRAIN INLET				STRUCTURE, BUILDING OR FACILITY		
	ROAD, CENTER				EXISTING PIPE TO BE ABANDONED		
	ROAD, ALIGNMENT				EXISTING PIPE TO BE DEMOLISHED		
	ROAD				CONSTRUCTION CONTRACT LIMIT		
	DRIVEWAY				CONSTRUCTION EASEMENT		
	BUILDING OUTLINE				CABLE TV		
	WALL, RETAINING WALL				COMMUNICATION		
	PIPE, UNIDENTIFIED				FIRE PROTECTION WATER SUPPLY		
	HEADWALL				GUARD RAIL		
	CULVERT				PROPERTY LINE		
	SANITARY SEWER UNDERGROUND PIPE				CONTRACTOR STAGING BOUNDARY		
	SANITARY SEWER MANHOLE				RIGHT OF WAY		
	WATER UNDERGROUND PIPE				RIGHT OF WAY		
	NATURAL GAS UNDERGROUND PIPE				RIGHT OF WAY		
	FIBER OPTIC LINE				RIGHT OF WAY		
	ELEC UNDERGROUND PIPE				RIGHT OF WAY		
	ELEC OVERHEAD PIPE				RIGHT OF WAY		
	POWER POLE				RIGHT OF WAY		
	GUY WIRE				RIGHT OF WAY		
	GUY ANCHOR				RIGHT OF WAY		
	TRANSMISSION TOWER, METAL				RIGHT OF WAY		
	CANAL				RIGHT OF WAY		
	RAILROAD				RIGHT OF WAY		
	DITCH/FLOW LINE				RIGHT OF WAY		
	STORM DRAIN UNDERGROUND PIPE				RIGHT OF WAY		
	STORM DRAIN MANHOLE				RIGHT OF WAY		
	SLOPE BANK, CUT				RIGHT OF WAY		
	SLOPE BANK, FILL				RIGHT OF WAY		
	SPOT ELEVATION				RIGHT OF WAY		
	BORING LOCATION AND NUMBER				RIGHT OF WAY		
	TEST PIT LOCATION AND NUMBER				RIGHT OF WAY		
	DWR AUGER HOLE				RIGHT OF WAY		
	DWR CORE HOLE				RIGHT OF WAY		
	USBR CORE HOLE				RIGHT OF WAY		
	GEOTECHNICAL BORING				RIGHT OF WAY		
	STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES				RIGHT OF WAY		

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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B. CHELONIS
DRAWN BY:	B. CHELONIS
CHECKED BY:	W. OHLIN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

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

REGISTERED PROFESSIONAL ENGINEER  
BECKY K. CHELONIS  
C 59851  
CALIFORNIA

**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL  
CIVIL LEGEND

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
0 1"
DRAWING NO.
MPG-0001-G-0101
SHT 6 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL ARCHITECTURAL NOTES**

- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3-INCHES FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF ALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS, 8" AT CMU WALLS.
- LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE. THEY ARE AT THE BUILDING FACE, OR ON THE SECTION END EXCEPT AS NOTED.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OF DRAWINGS FOR ADDITIONAL NOTES.
- VERIFY SIZE AND LOCATION OF, AND PROVIDE: REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.

**ARCHITECTURAL MATERIAL SYMBOLS**

SYMBOL	LEGEND
	GRATING, SPAN DIRECTION INDICATED
	CHECKERED PLATE
	GROUT
	GRANULAR FILL
	EARTH OR FINISH GRADE
	CONCRETE
	CMU WALL (PLAN AND SECTION)
	MASONRY WALL
	METAL STUD WALL (PLAN)
	RIGID INSULATION
	BATT INSULATION
	STEEL
	ALUMINUM
	PLYWOOD
	GYPSUM WALLBOARD
	ACOUSTICAL TILE
	WOOD, ROUGH CONTINUOUS
	WOOD, ROUGH NON-CONTINUOUS
	WOOD, FINISHED

**ARCHITECTURAL LEGEND**

SYMBOL	LEGEND
	GRID / COLUMN INDICATOR
	ROOM IDENTIFIER
	DOOR IDENTIFIER
	WINDOW IDENTIFIER
	RELIGHT IDENTIFIER
	LOUVER IDENTIFIER
	WALL TYPE INDICATOR
	SIGNAGE IDENTIFIER
	INTERIOR ELEVATION INDICATOR
	SPOT ELEVATION INDICATOR (IN FEET)
	ELEVATION DATUM (IN FEET)
	DIRECTION OF SLOPE DOWN
	HATCH SWING INDICATOR
	INDICATES PAIR OF DOORS (DOOR # ON ACTIVE)
	FIRE EXTINGUISHER "X" = NUMBER IN SPECIFICATIONS
	CONTROL JOINT
	EXPANSION JOINT X" = DIMENSION
	RAILINGS

Plot Date: 9/25/2023 12:17 PM File: C:\pwworking\hdr\_sites\_reservoir\dms01711\MPG-0001-G-0201.dwg Saved By: MC059514

REV	DATE	BY	CHK	P.RU	DESCRIPTION

DESIGNED BY:	M. KIRKPATRICK
DRAWN BY:	M. COLLINS
CHECKED BY:	G. KIRSTEN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

**Jacobs**  
2525 AIRPARK DR  
REDDING, CA 96001  
(530) 243-5831

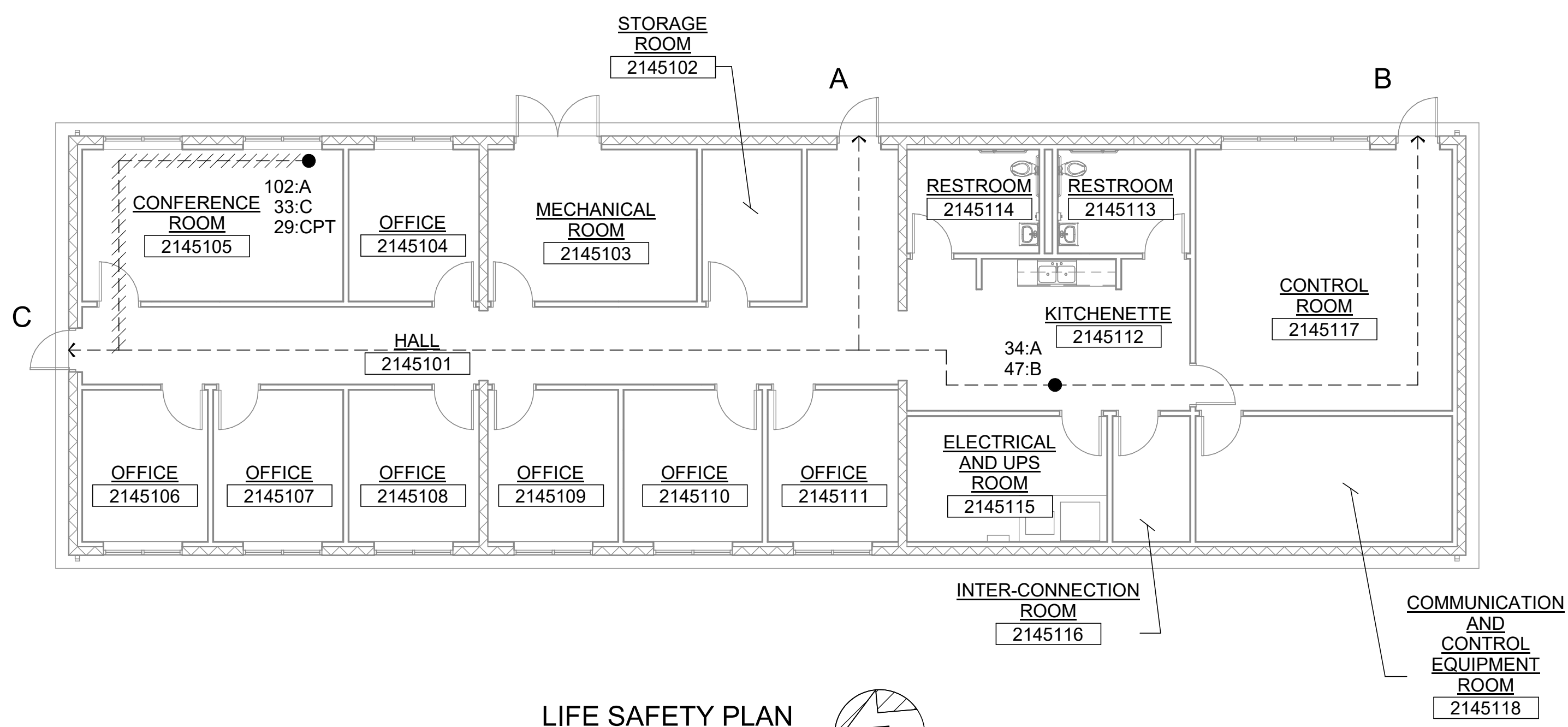
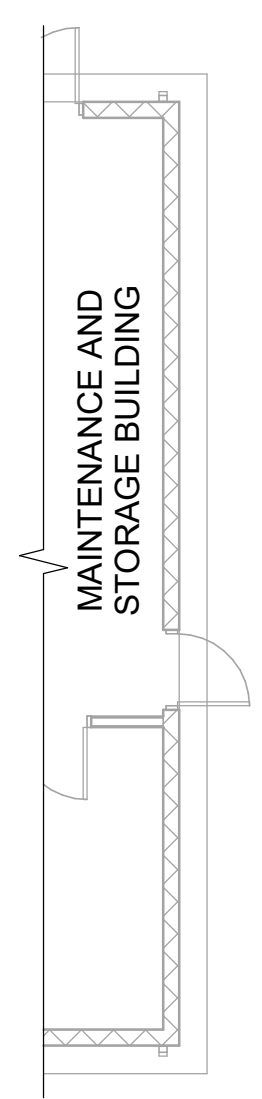
REGISTERED  
LICENSED  
ARCHITECT  
GEOFFREY B KIRSTEN  
L.A. REG No. C-330  
CALIFORNIA



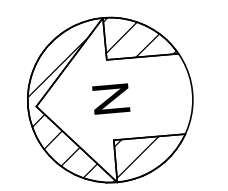
**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL  
ARCHITECTURAL NOTES,  
MATERIAL SYMBOLS AND LEGEND

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS 0 1"
DRAWING NO. MPG-0001-G-0201 SHT 7 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**LIFE SAFETY PLAN**  
1/8" = 1'-0"

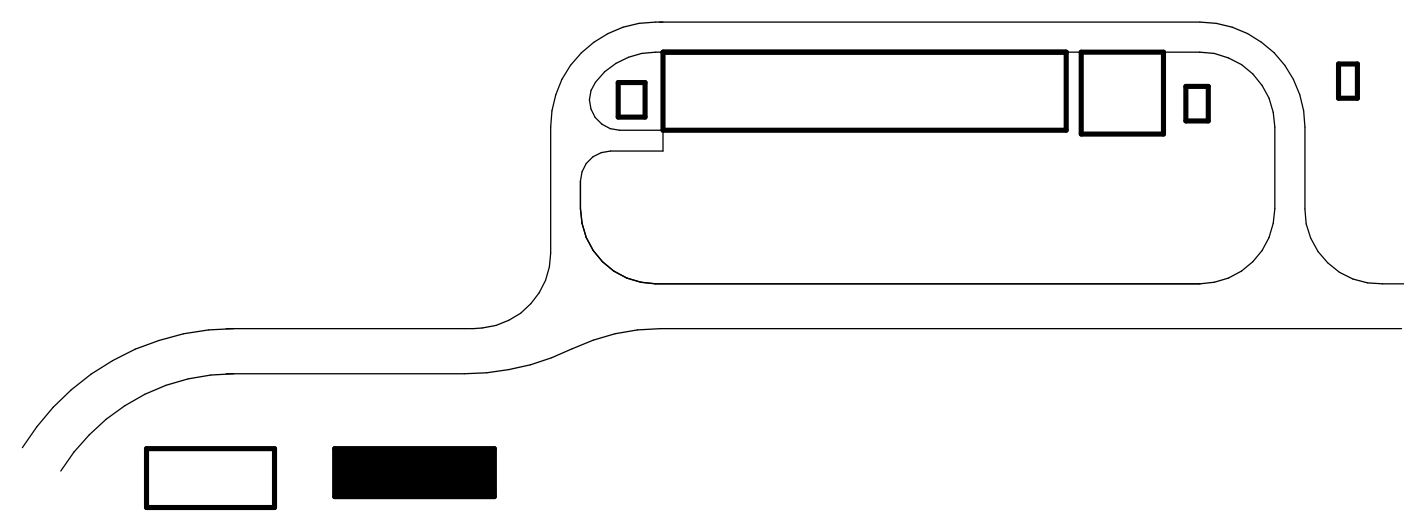


**GENERAL NOTES**

- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
- FOR ABBREVIATIONS, SEE DRAWING MPG-0001-G-0010.

**LIFE SAFETY LEGEND**

- X:Y ● TRAVEL DISTANCE (X = TOTAL DISTANCE IN FEET TO Y, EXIT NUMBER)
- 36" MINIMUM EGRESS WIDTH WIDTH PROVIDED, TYP
- COMMON PATH OF TRAVEL (CPT)
- EXIT SYMBOL



**OVERALL FACILITY KEY**

BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2145-S-z3Dn01.rvt 9/25/2023 8:57:04 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



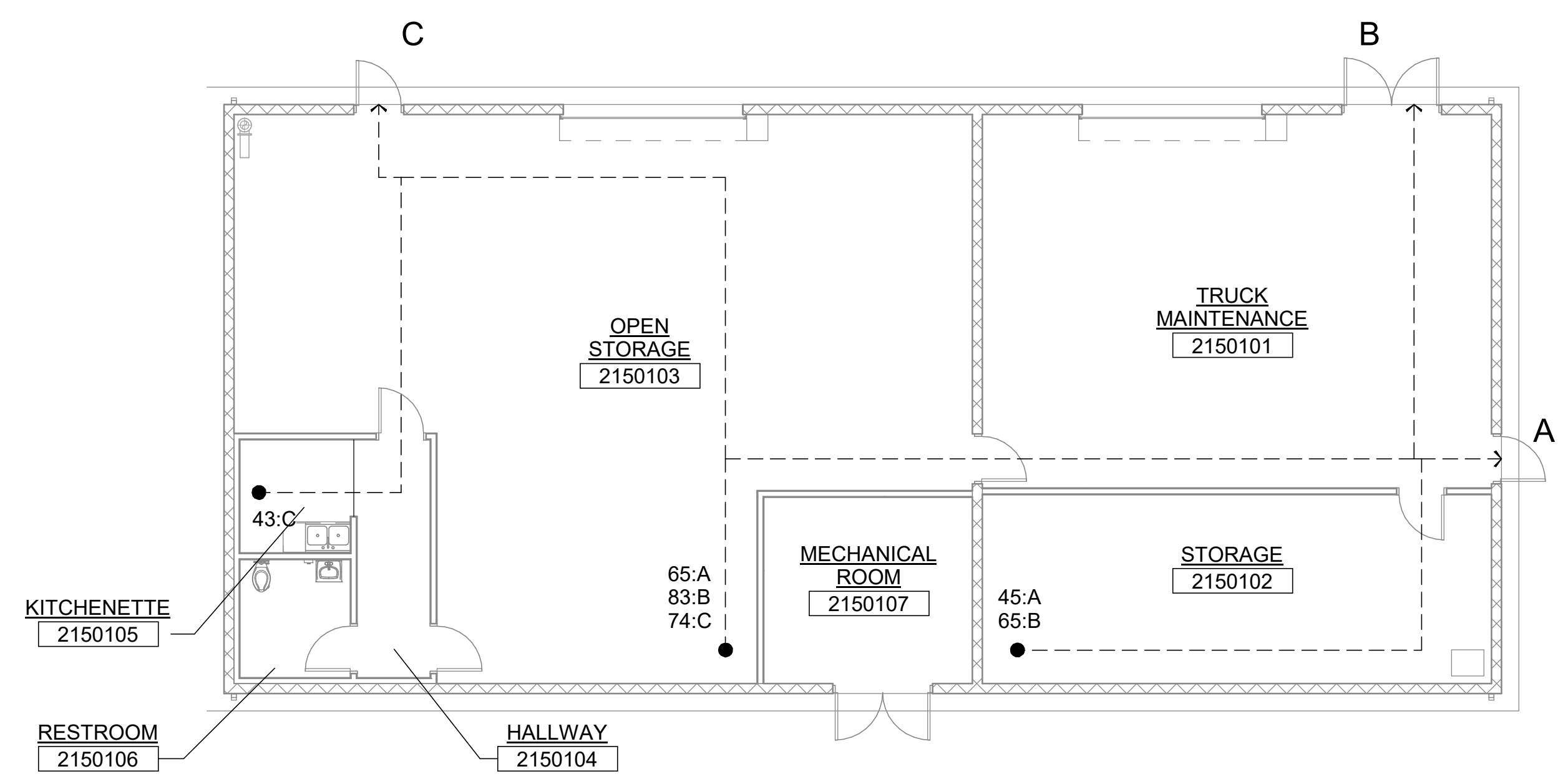
REGISTERED LICENSED ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



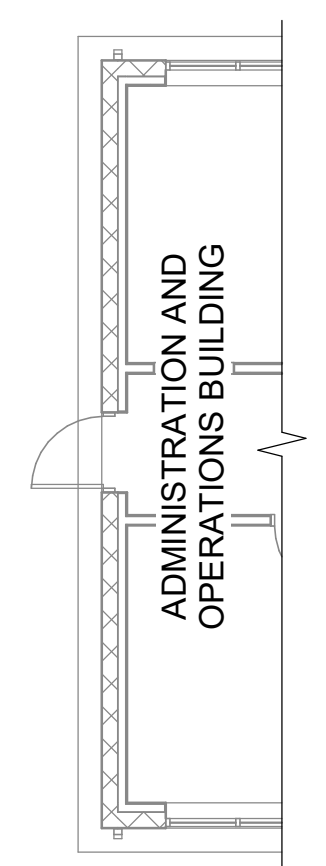
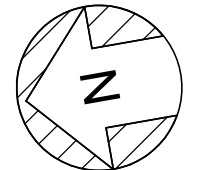
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 CODE DATA AND LIFE SAFETY PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO. MPG-0001-G-0202  
 SHT 8 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**LIFE SAFETY PLAN**  
1/8" = 1'-0"

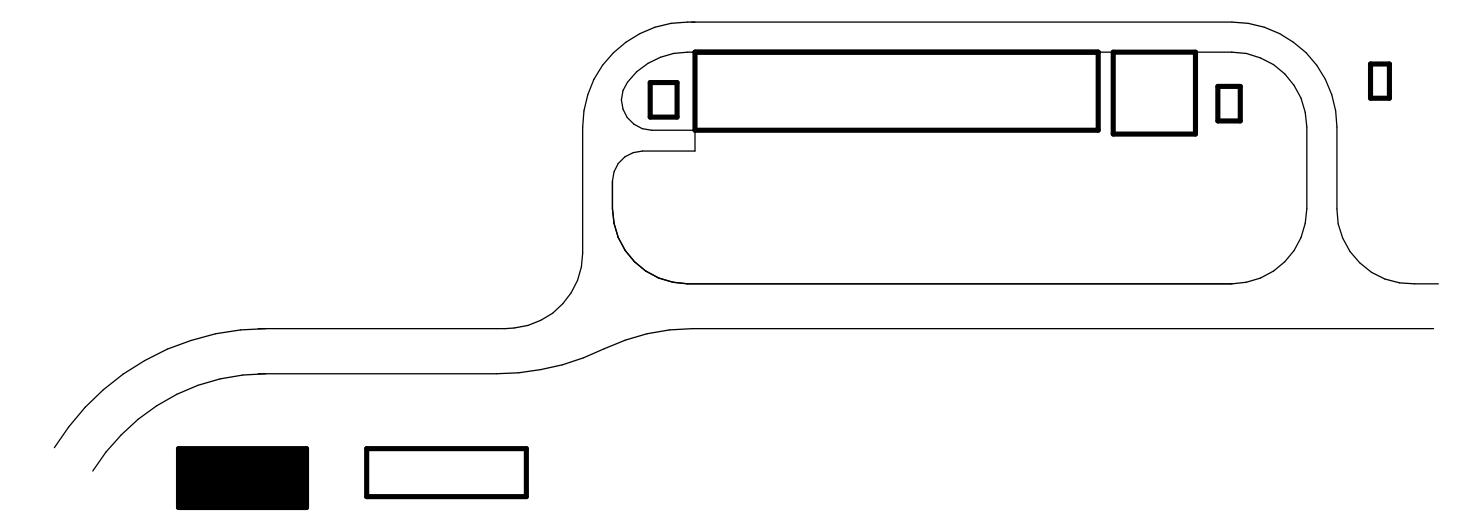


**GENERAL NOTES**

- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS, AND LEGEND, SEE DRAWING MPG-0001-G-0201.
- FOR ABBREVIATIONS, SEE DRAWING MPG-0001-G-0010.

**LIFE SAFETY LEGEND**

- X:Y  
TRAVEL DISTANCE (X = TOTAL DISTANCE IN FEET TO Y, EXIT NUMBER)
- 36" MINIMUM EGRESS WIDTH WIDTH PROVIDED, TYP
- EXIT SYMBOL



**OVERALL FACILITY KEY**

BIN 360/10333221\_Site Reservoir Project\_2022/MPG-2150-S-z3Dn01.rvt 9/25/2023 9:01:29 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



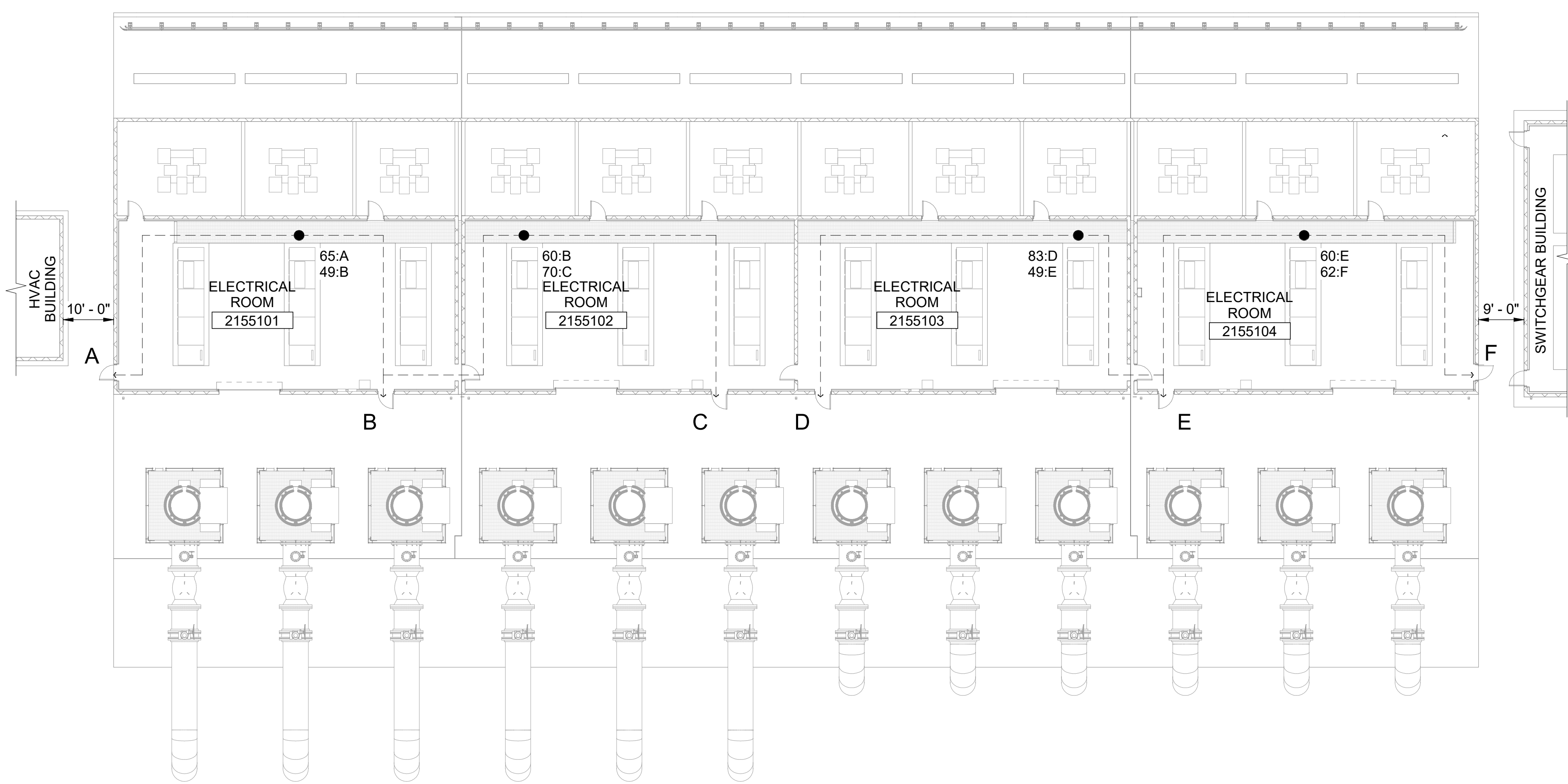
REGISTERED LICENSED ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



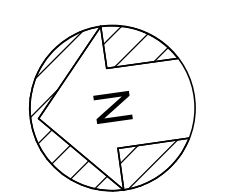
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 CODE DATA AND LIFE SAFETY PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-0001-G-0203  
 SHT 9 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**LIFE SAFETY PLAN**  
1/16" = 1'-0"

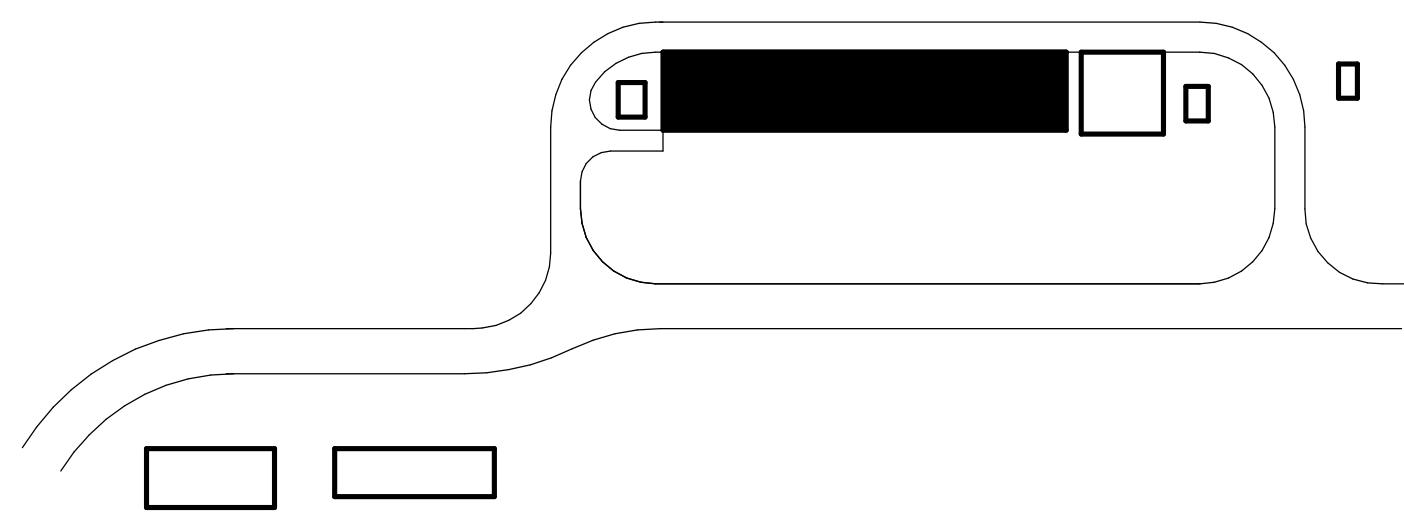


**GENERAL NOTES**

- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
- FOR ABBREVIATIONS, SEE DRAWING MPG-0001-G-0010.

**LIFE SAFETY LEGEND**

- TRAVEL DISTANCE (X = TOTAL DISTANCE IN FEET TO Y, EXIT NUMBER)
- 36" MINIMUM EGRESS WIDTH WIDTH PROVIDED, TYP
- EXIT SYMBOL



**OVERALL FACILITY KEY**

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-z3Dn01.rvt  
 9/25/2023 11:46:09 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 CODE DATA AND LIFE SAFETY PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-0001-G-0204  
 SHT 10 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

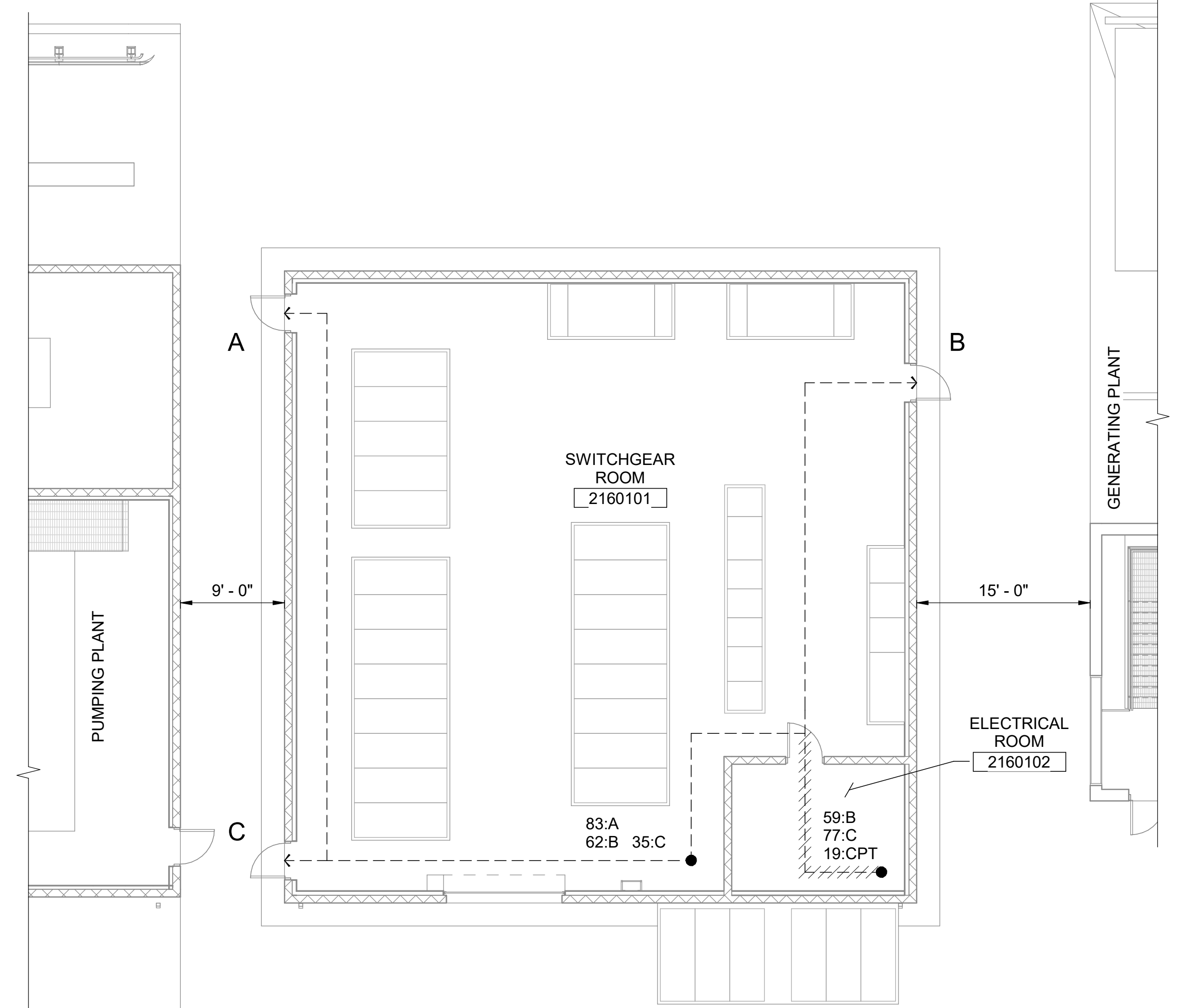


**GENERAL NOTES**

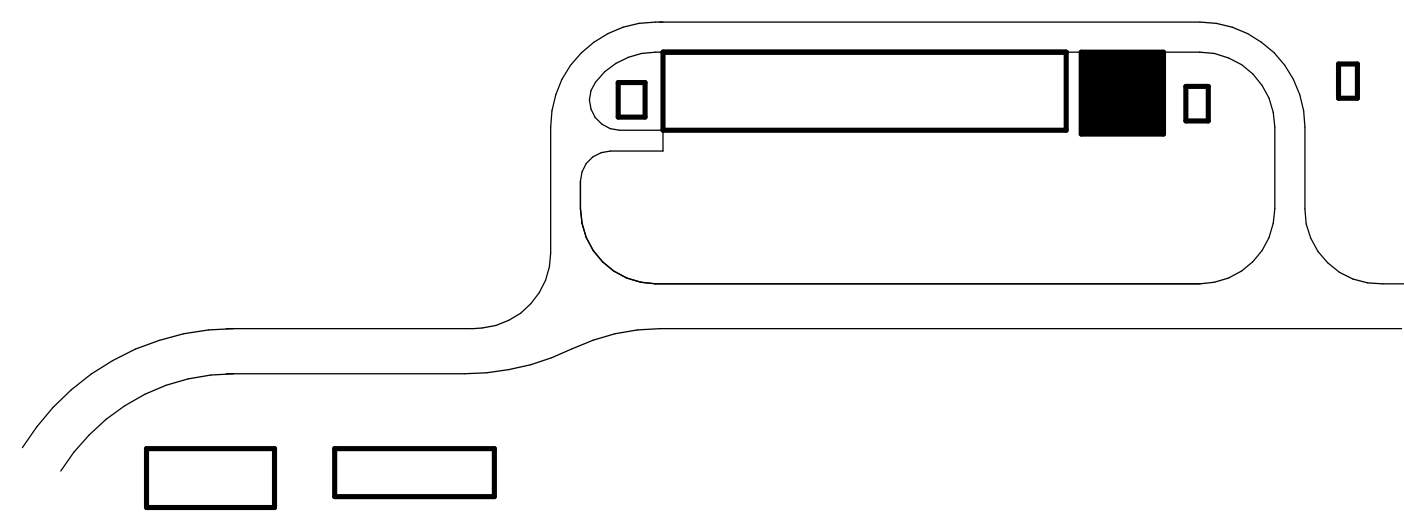
- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
- FOR ABBREVIATIONS, SEE DRAWING MPG-0001-G-0010.

**LIFE SAFETY LEGEND**

- TRAVEL DISTANCE (X = TOTAL DISTANCE IN FEET TO Y, EXIT NUMBER)
- 36" MINIMUM EGRESS WIDTH WIDTH PROVIDED, TYP
- EXIT SYMBOL



**LIFE SAFETY PLAN**  
1/8" = 1'-0"



**OVERALL FACILITY KEY**

BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2160-S-z3Dn01.rvt 9/25/2023 11:55:36 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



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REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 CODE DATA AND LIFE SAFETY PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-0001-G-0205  
 SHT 11 OF 176

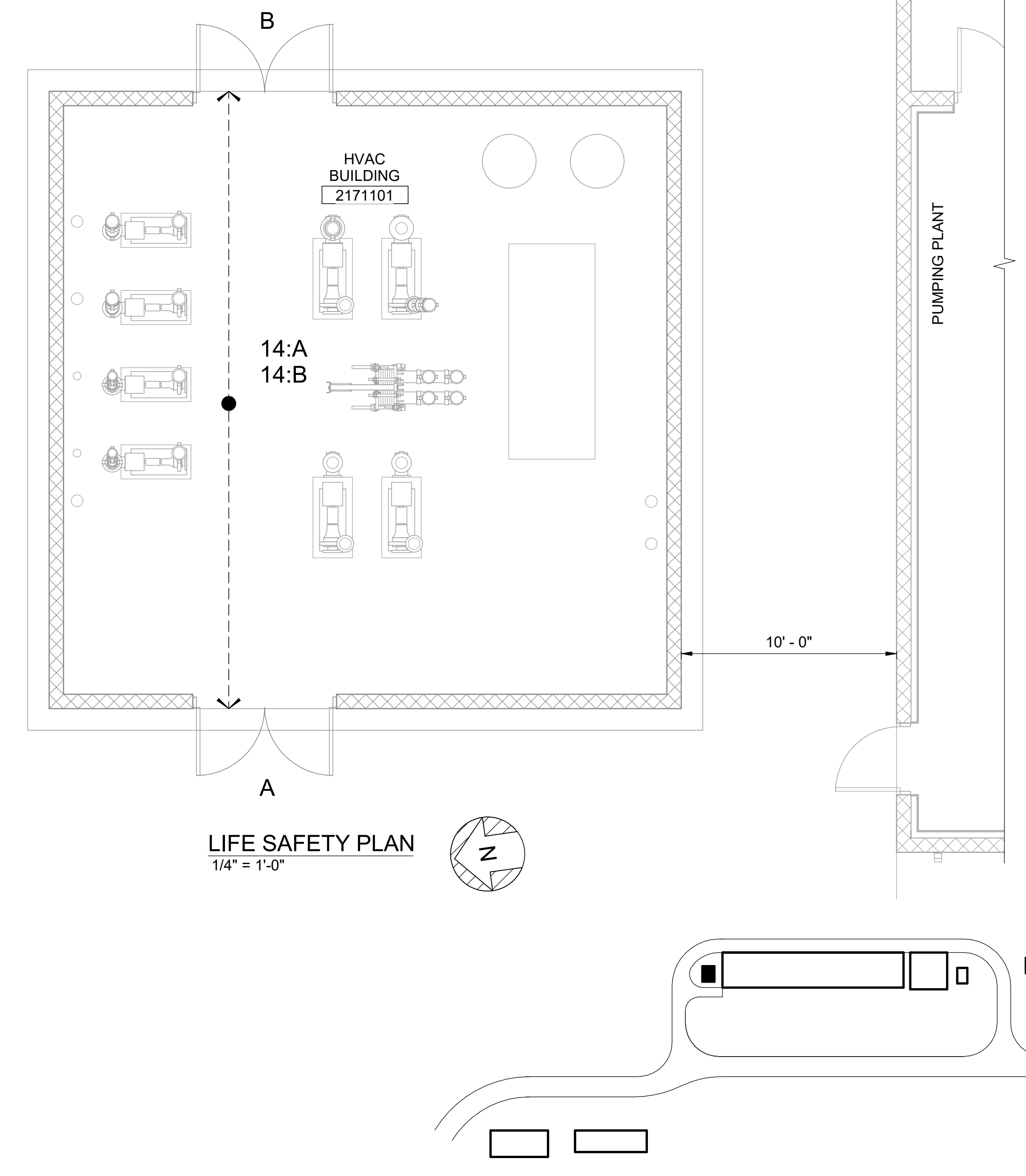
PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR ABBREVIATIONS, SEE DRAWING MPG-0001-G-0010.

**LIFE SAFETY LEGEND**

- TRAVEL DISTANCE (X = TOTAL DISTANCE IN FEET TO Y, EXIT NUMBER)
- 36" MINIMUM EGRESS WIDTH WIDTH PROVIDED, TYP
- EXIT SYMBOL



**LIFE SAFETY PLAN**  
1/4" = 1'-0"

**OVERALL FACILITY KEY**

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
LICENSED  
ARCHITECT  
GEOFFREY B KIRSTEN  
L.A. REG No. C-33068  
CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 CODE DATA AND LIFE SAFETY PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-0001-G-0207  
 SHT 13 OF 176

Plot Date: 8/2/2023 8:57 AM  
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### DESIGN CRITERIA

- APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE (CBC) INCLUDING REFERENCED CODES AND STANDARDS.
- REFER TO FACILITY DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
- ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.
- DEAD LOADS: SELF WEIGHT
- ROOF LOADS:  
 GROUND SNOW LOAD, P<sub>g</sub> = 0 PSF  
 ROOF LIVE LOAD = 20 PSF
- FLOOR LIVE LOADS:  
 PROCESS AREAS = 200 PSF  
 ELECTRICAL AREAS = 300 PSF  
 CORRIDORS, STAIRWAYS, ACCESS WAYS = 100 PSF  
 WALKWAYS AND ELEVATED PLATFORMS = 100 PSF  
 VEHICLE DRIVE AREAS = AASHTO DESIGN TRUCK OR DESIGN TANDEM
- WIND LOADS:  
 ASCE 7-16 METHOD = MWFRS DIRECTIONAL PROCEDURE, UNO  
 BASIC WIND SPEED (3-SECOND GUST) = 104 MPH, RISK CATEGORY IV  
 BASIC WIND SPEED (3-SECOND GUST) = 100 MPH, RISK CATEGORY III  
 BASIC WIND SPEED (3-SECOND GUST) = 93 MPH, RISK CATEGORY II  
 EXPOSURE CATEGORY = C
- FUNKS RESERVOIR SEISMIC LOADS:  
 MAPPED SPECTRAL RESPONSE ACCELERATIONS  
 S<sub>s</sub> = 0.867g  
 S<sub>1</sub> = 0.359g  
 SITE-SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATIONS  
 S<sub>DS</sub> = 0.TBDg  
 S<sub>D1</sub> = 0.TBDg  
 SITE CLASS = D  
 SEISMIC DESIGN CATEGORY = D
- TERMINAL REGULATING RESERVOIR SEISMIC LOADS:  
 MAPPED SPECTRAL RESPONSE ACCELERATIONS  
 S<sub>s</sub> = 0.841g  
 S<sub>1</sub> = 0.350g  
 SITE-SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATIONS  
 S<sub>DS</sub> = 0.TBDg  
 S<sub>D1</sub> = 0.TBDg  
 SITE CLASS = D  
 SEISMIC DESIGN CATEGORY = D
- RISK CATEGORY = SEE FACILITY DRAWINGS
- IMPORTANCE FACTOR = SEE FACILITY DRAWINGS
- LATERAL FORCE-RESISTING SYSTEM = SEE FACILITY DRAWINGS
- FUNKS RESERVOIR SOIL DESIGN PARAMETERS:  
 NET ALLOWABLE SOIL BEARING PRESSURES: = TBD PSF (SHALLOW FOUNDATIONS)  
 GROUNDWATER (GW) ELEVATION:  
 MAXIMUM HIGH GW = EL 205.0  
 EQUIVALENT DRAINED FLUID PRESSURES:  
 ACTIVE: = TBD PCF  
 AT REST: = TBD PCF  
 PASSIVE: = TBD PCF  
 EQUIVALENT UNDRAINED FLUID PRESSURES:  
 ACTIVE: = TBD PCF  
 AT REST: = TBD PCF  
 PASSIVE: = TBD PCF  
 DYNAMIC FLUID PRESSURES:  
 YIELDING WALLS LATERAL FORCE: = TBD H LBS (APPLIED AT 0.6H)  
 NON-YIELDING WALLS: = TBD H PSF  
 WHERE H IS HEIGHT OF SOIL ADJACENT TO THE WALL  
 VERTICAL SURCHARGE: = EQUIVALENT 2 FT OF SOIL  
 COEFFICIENT OF FRICTION: = 0.TBD  
 MODULUS OF SUBGRADE REACTION = TBD PCF (1 FT SQUARE PLATE)  
 NATIVE SOIL UNIT WEIGHT = TBD PCF  
 MINIMUM FOOTING EMBEDMENT DEPTH: = TBD IN
- TERMINAL REGULATING RESERVOIR SOIL DESIGN PARAMETERS:  
 NET ALLOWABLE SOIL BEARING PRESSURES: = TBD PSF (SHALLOW FOUNDATIONS)  
 GROUNDWATER (GW) ELEVATION:  
 MAXIMUM HIGH GW = EL 124.0  
 EQUIVALENT DRAINED FLUID PRESSURES:  
 ACTIVE: = TBD PCF  
 AT REST: = TBD PCF  
 PASSIVE: = TBD PCF  
 EQUIVALENT UNDRAINED FLUID PRESSURES:  
 ACTIVE: = TBD PCF  
 AT REST: = TBD PCF  
 PASSIVE: = TBD PCF  
 DYNAMIC FLUID PRESSURES:  
 YIELDING WALLS LATERAL FORCE: = TBD H<sup>2</sup> LBS (APPLIED AT 0.6H)  
 NON-YIELDING WALLS: = TBD H PSF  
 WHERE H IS HEIGHT OF SOIL ADJACENT TO THE WALL  
 VERTICAL SURCHARGE: = EQUIVALENT 2 FT OF SOIL  
 COEFFICIENT OF FRICTION: = 0.TBD  
 MODULUS OF SUBGRADE REACTION = TBD PCF (1 FT SQUARE PLATE)  
 NATIVE SOIL UNIT WEIGHT = TBD PCF  
 MINIMUM FOOTING EMBEDMENT DEPTH: = TBD IN
- FACTOR OF SAFETY FOR BOUYANCY UPLIFT RESISTANCE:  
 NORMAL OPERATION FOS = 1.5 MINIMUM  
 SCHEDULED MAINTENANCE FOS = 1.25 MINIMUM  
 EXTREME MAINTENANCE FOS = 1.1 MINIMUM

### GENERAL INFORMATION

- FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
- DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
- VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
- FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
- VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

### INSPECTION AND TESTING

- SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
- SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.
- SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SPECIAL INSPECTION AND TESTS AND STRUCTURAL OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH CBC SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS. REFER TO DRAWINGS [xxx] TO [xxx].

### FOUNDATIONS

- REFER TO GEOTECHNICAL DATA REPORT NO. TBD.
- EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE AND DAMAGE TO ADJACENT EXISTING STRUCTURES, ROADS, UTILITIES, ETC.
- FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS, TEST PITS AND DATA REPORTS.
- NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALL'S CONCRETE HAS ATTAINED 100 PERCENT AND TOP SUPPORTING SLAB'S CONCRETE HAS ATTAINED 80 PERCENT OF THEIR SPECIFIED 28 DAY COMPRESSIVE STRENGTH, OR UNTIL TOP-OF-WALL FRAMING SYSTEMS, INCLUDING STEEL DIAPHRAGMS, HAVE BEEN COMPLETED.
- NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP, WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- USE OF EXPLOSIVES IS ONLY ALLOWED WITH WRITTEN PERMISSION FROM ENGINEER.

### FORMWORK, SHORING, AND BRACING

- STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
- TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.
- "BURY" BARS OR "CARRIER" BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.

### CONCRETE REINFORCING

- REINFORCING STEEL:  
 TYPICAL: ASTM A615, GRADE 60  
 WELDED: ASTM A706, GRADE 60
- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE:  
 WHEN CAST AGAINST EARTH: 3"  
 INTERIOR, DRY, HUMIDITY CONTROLLED AREAS:  
 WALLS AND SLABS: 3/4"  
 BEAM STIRRUPS AND COLUMN TIES: 1 1/2"  
 OTHER CONCRETE SURFACES: 2"
- REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING STANDARD DETAIL. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.
- 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
- WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS OR PILASTERS FOOTINGS.
- LAP VERTICAL WALL BARS WITH DOWELS FROM BASE SLABS AND EXTEND INTO TOP FACE OF ROOF SLABS AND LAP WITH TOP SLAB REINFORCEMENT. PROVIDE A MINIMUM OF FOUR FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL SHOWN OR REQUIRED BY NOTES ABOVE.
- LOCATE ELEVATED SLAB AND BEAM TOP BAR SPLICES AT MIDSPAN AND BOTTOM BAR SPLICES AT SUPPORTS.
- REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
- REFER TO OPENING REINFORCING STANDARD DETAILS.
- REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE DESIGN STRENGTH = 4,000 PSI **		GRADE 60 REINFORCING STEEL								
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LENGTH ***	TOP BAR *	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING = 3"	TOP BAR *	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING = 4"	TOP BAR *	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
SPACING ≥ 6"	TOP BAR *	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING = 4"	TOP BAR *	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING ≥ 6"	TOP BAR *	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

\* TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.  
 \*\* WHERE 3,000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16%.  
 \*\*\* LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".

DESIGNED BY:	J. KELLOGG
DRAWN BY:	S. METCALF
CHECKED BY:	H. HENRIKSON
IN CHARGE:	P. RUDE
DATE:	10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 5698 CALIFORNIA



## SITES RESERVOIR MAXWELL / SITES PUMPING AND GENERATING GENERAL STRUCTURAL NOTES 1

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS. 0" = 1"
DRAWING NO. MPG-0001-G-0301 SHT 14 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**CAST IN PLACE CONCRETE**

- 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS):  
 HYDRAULIC STRUCTURES: 4,500 PSI  
 BUILDING STRUCTURES: 4,000 PSI  
 CONCRETE FILL: 3,500 PSI  
 CURBS AND SIDEWALKS: 3,500 PSI  
 DUCT BANKS AND PIPE ENCASEMENTS  
 NOT INTEGRAL WITH FOUNDATIONS: 3,500 PSI
- 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS FOR ACI 318 AND ACI 350):  
 HYDRAULIC STRUCTURES: 5,000 PSI  
 BUILDING STRUCTURES: 4,500 PSI  
 CONCRETE FILL: 4,000 PSI  
 CURBS AND SIDEWALKS: 4,000 PSI  
 DUCT BANKS AND PIPE ENCASEMENTS  
 NOT INTEGRAL WITH FOUNDATIONS: 4,000 PSI
- CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN WALLS AND SLABS OF WATER HOLDING BASINS AND BELOW GRADE STRUCTURES UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE, EXPOSING CLEAN AGGREGATE OF 1/4" AMPLITUDE SOLIDLY EMBEDDED IN MORTAR MIX.
- COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
- NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- CONDUIT SHALL NOT BE PLACED PARALLEL WITH BEAM OR COLUMN REINFORCEMENT UNLESS SPECIFICALLY INDICATED IN DRAWINGS.
- PATCH FORM TIE HOLES IN ACCORDANCE WITH STANDARD DETAILS.

**CONCRETE UNIT MASONRY**

- MASONRY WALL TYPE: SPECIAL REINFORCED WALLS.
- DESIGN COMPRESSIVE STRENGTH,  $f_m$ , OF THE FINISHED ASSEMBLY AND MATERIAL PROPERTIES SHALL BE PER THE TABLE BELOW.
- MORTAR: ASTM C270, TYPE S, HYDRATED.
- GROUT: ASTM C476 COARSE GROUT. USE OF WATER REDUCERS OR SUPERPLASTICIZERS IS NOT PERMITTED.
- CONCRETE MASONRY UNITS: ASTM C90, MEDIUM WEIGHT, LINEAR SHRINKAGE SHALL NOT EXCEED 0.065 PERCENT.
- | DESIGN COMPRESSIVE STRENGTH $f_m$ (PSI) | UNIT STRENGTH (PSI) | GROUT STRENGTH (PSI) MIN / MAX | MORTAR PROPERTIES |
|---|---------------------|--------------------------------|-------------------|
| 2,000                                   | 1,900               | 2,000 / 3500                   | Type S            |
- PLACE COURSES IN WALLS, COLUMNS, AND PILASTERS IN RUNNING BOND PATTERN.
- PROVIDE MATCHING FOUNDATION DOWELS FOR ALL TYPICAL AND ADDITIONAL VERTICAL BARS.
- PROVIDE VERTICAL BARS AND DOWELS WITH LAP LENGTHS AS SHOWN IN DETAIL 0422-004.
- STAGGER ADJACENT LAP SPLICES BY 24 INCHES WHEN SEPARATED BY 3 INCHES OR LESS.
- PROVIDE NUMBER OF FULL HEIGHT VERTICAL BARS AT EDGES OF OPENINGS AS SHOWN IN DETAIL 0422-004.
- PROVIDE FULL HEIGHT VERTICAL BARS IN 3 CELLS AT WALL CORNERS AND INTERSECTIONS AS SHOWN IN DETAIL 0422-001.
- PROVIDE HORIZONTAL CORNER AND INTERSECTION BARS WITH LAP LENGTHS AS SHOWN IN DETAIL 0422-001.
- PROVIDE REINFORCED LINTELS ABOVE AND REINFORCED BOND BEAMS BELOW OPENINGS AS SHOWN IN DETAIL 0422-002.
- PROVIDE FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS IN CELLS ADJACENT TO OPENINGS AS SHOWN IN DETAIL 0422-002.
- GROUTING: SOLID GROUT ALL CMU WALLS.
- DO NOT PLACE CONDUIT IN CELLS CONTAINING PARALLEL REINFORCEMENT.

**WELDING**

- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION:  
 D1.1. STRUCTURAL WELDING CODE – STEEL  
 D1.2. STRUCTURAL WELDING CODE – ALUMINUM  
 D1.3. STRUCTURAL WELDING CODE – SHEET STEEL  
 D1.4. STRUCTURAL WELDING CODE – REINFORCING STEEL  
 D1.6. STRUCTURAL WELDING CODE – STAINLESS STEEL
- REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 CLAUSE 7.25.
- USE INTERMITTENT WELDS AND A LOW HEAT INPUT WELDING PROCESS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.
- BUTT JOINT AND GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

**STRUCTURAL STEEL AND METAL FABRICATIONS**

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:  
 W-SHAPES A992  
 MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC. A36  
 SQUARE OR RECTANGULAR STEEL TUBING A500, GRADE C  
 STEEL PIPE A53, GRADE B  
 STAINLESS STEEL SHAPES A276
- ALUMINUM SHALL CONFORM TO THE FOLLOWING STANDARDS:  
 STRUCTURAL SHAPES B308  
 PLATES B209
- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
- FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:  
 UNLESS SHOWN OTHERWISE F3125, GRADE A325, TYPE1  
 ANCHOR BOLTS (AB)  
 STAINLESS STEEL F593, AISI TYPE 304 OR 316, CONDITION CW  
 STEEL F1554, GR 36  
 GALVANIZED STEEL F1554, GR 36 / A153  
 MACHINE BOLTS (MB) A307, GRADE B
- ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE WRITTEN APPROVAL OF JACOBS.
- ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED TO ASTM A123 UNLESS NOTED OTHERWISE. MEMBERS THAT ARE WELDED AFTER GALVANIZING SHALL BE TOUCHED UP WITH A ZINC RICH COATING AFTER COMPLETIONS AND INSPECTION OF THE WELD.

**OPEN WEB METAL JOIST FRAMING**

- JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE AISC AND THE STEEL JOIST INSTITUTE (SJI).
- SEE ROOF FRAMING PLANS FOR DESIGN LOADS.
- LOADS INDICATED ON THE DRAWINGS ARE MINIMUM DESIGN LOADS AND SHALL NOT BE CONSTRUED TO BE ALL LOADS APPLICABLE TO THE DESIGN OF THE JOISTS. DEAD LOADS INFERRED BY THE DRAWINGS WHICH WOULD BE INCLUDED IN COMMON PRACTICE, INCLUDING EQUIPMENT LOADS AND CONSTRUCTION LOADS, SHALL BE INCLUDED IN THE DESIGN.
- VERIFY AND COORDINATE EQUIPMENT WEIGHTS, LOCATIONS, AND ATTACHMENT REQUIREMENTS PRIOR TO JOIST FABRICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE VERTICAL AND LATERAL SUPPORT OF EQUIPMENT AS SPECIFIED IN SECTION 01 88 15, ANCHORAGE AND BRACING. JOIST MANUFACTURER SHALL COORDINATE AND SUPPLY ADDITIONAL DIAGONAL WEB MEMBERS AT CONCENTRATED LOAD LOCATIONS.
- JOIST SIZES AND CHORD SIZES INDICATED ON THE PLANS ARE MINIMUM ONLY. DESIGN BY THE JOIST MANUFACTURER MAY RESULT IN A LARGER SIZE. JOISTS SHALL HAVE DOUBLE ANGLE CHORDS.
- DESIGN JOIST TOP CHORD AT END OF ROOF SUB-DIAPHRAGMS AND JOISTS DESIGNATED AS DRAG STRUTS FOR ADDITIONAL AXIAL LOAD (BOTH TENSION AND COMPRESSION) AS INDICATED ON THE ROOF FRAMING PLANS.
- PROVIDE CALCULATIONS, PRODUCT DATA, MATERIAL PROPERTIES, CONNECTION DETAILS, ETC FOR ALL TYPES OF JOISTS. CALCULATIONS SHALL BE STAMPED AND SIGNED BY AN ENGINEER REGISTERED IN THE STATE OF CA.
- JOIST BRIDGING, BOTTOM CHORD BRACING, AND OTHER ACCESSORIES SHALL BE PER THE MANUFACTURER'S STANDARDS AND AS INDICATED ON THE DRAWINGS. BRACING SHALL EXTEND TO WALLS, SEE DETAIL 0521-022.
- JOISTS SHALL BE CAMBERED FOR DEAD LOAD AS REQUIRED BY SJI. PROVIDE STANDARD SJI CAMBER UNLESS NOTED OTHERWISE. JOIST CAMBER SHALL BE SHOWN ON SHOP DRAWINGS.

**STEEL DECKING**

- FOR DECK SIZE, GAGE, AND FASTENING CONFIGURATIONS, SEE FRAMING PLANS. FASTENING CONFIGURATIONS SHOWN ARE SPECIFIC TO THE DECK PRODUCT USED AS BASIS OF DESIGN. CONTRACTOR SHALL FASTEN THE DECKING IN ACCORDANCE WITH INSTALLED DECK MANUFACTURER'S RECOMMENDATIONS TO MEET SPECIFIED CAPACITY REQUIREMENTS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE SHEET STEEL".
- DECKING SHALL HAVE A MINIMUM 1 1/2 INCHES BEARING ON SUPPORTS.
- DECKING SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM, EXCEPT WHERE SHOWN OTHERWISE.
- LOCATE OPENINGS FOR EQUIPMENT PER OTHER DISCIPLINE DRAWINGS.

**DEFERRED SUBMITTALS**

- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK.
- THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE.

SPECIFICATION SECTION	ITEM
01 88 15	ANCHORAGE AND BRACING
05 21 19	OPEN WEB STEEL JOIST FRAMING
33 16 13.12	BOLTED STEEL STORAGE TANK
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

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DESIGNED BY:	J. KELLOGG
DRAWN BY:	S. METCALF
CHECKED BY:	H. HENRIKSON
IN CHARGE:	P. RUDE
DATE:	10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 5698 CALIFORNIA



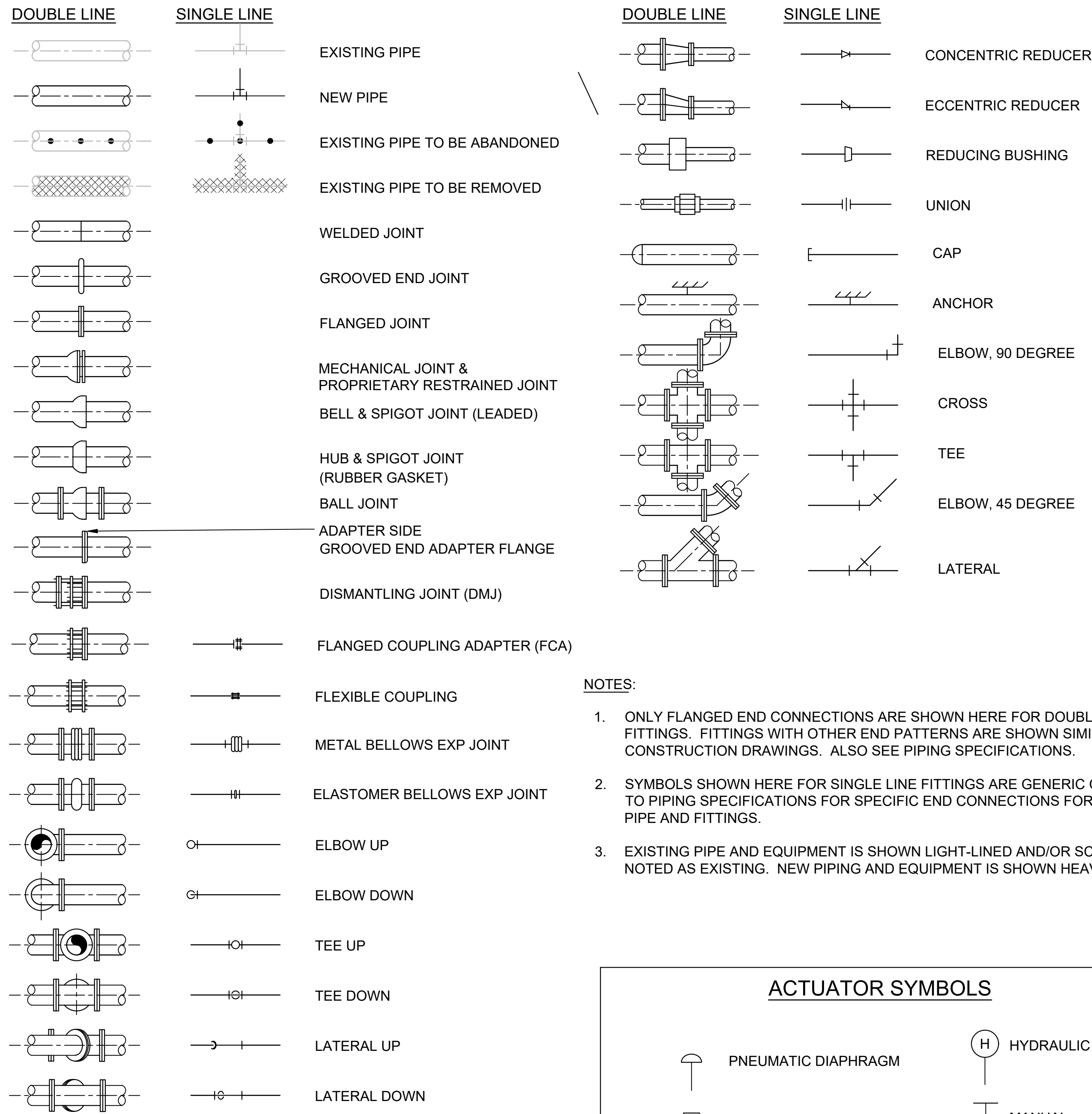
**SITES RESERVOIR**

MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 STRUCTURAL NOTES 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
0 1"
DRAWING NO.
MPG-001-G-0302
SHT 15 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

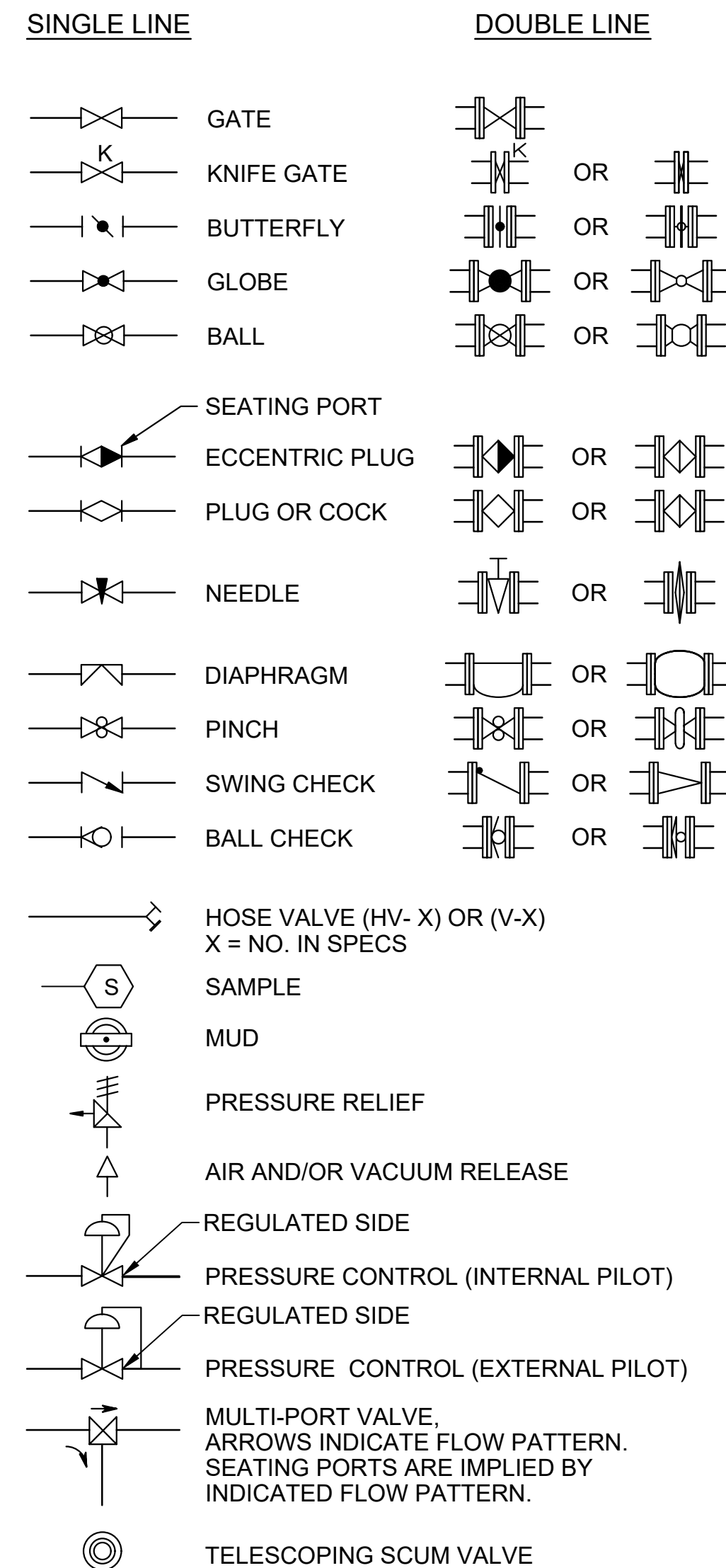
**PIPE AND FITTING SYMBOLS**



**NOTES:**

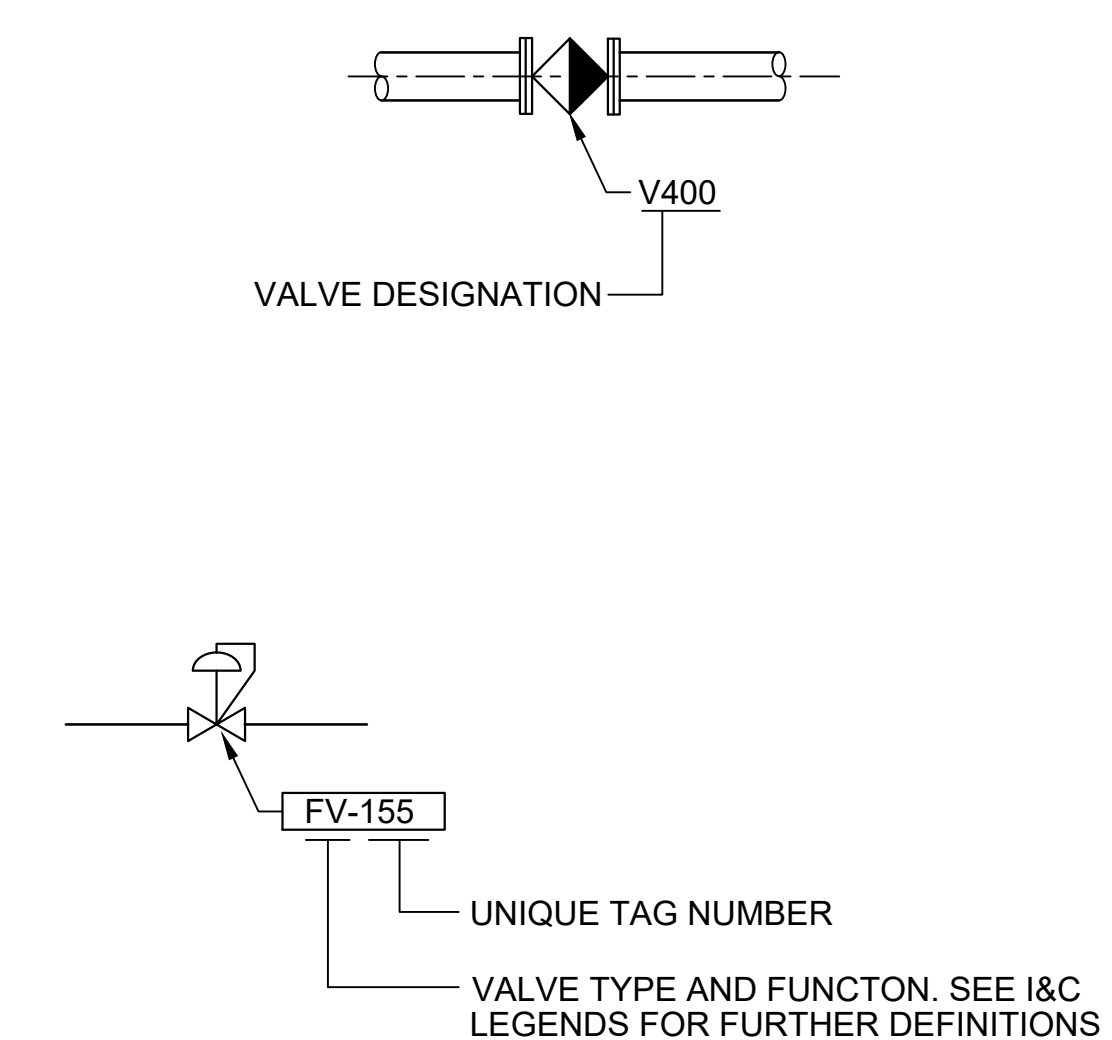
1. ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS. FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION DRAWINGS. ALSO SEE PIPING SPECIFICATIONS.
2. SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
3. EXISTING PIPE AND EQUIPMENT IS SHOWN LIGHT-LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.

**VALVE SYMBOLS**

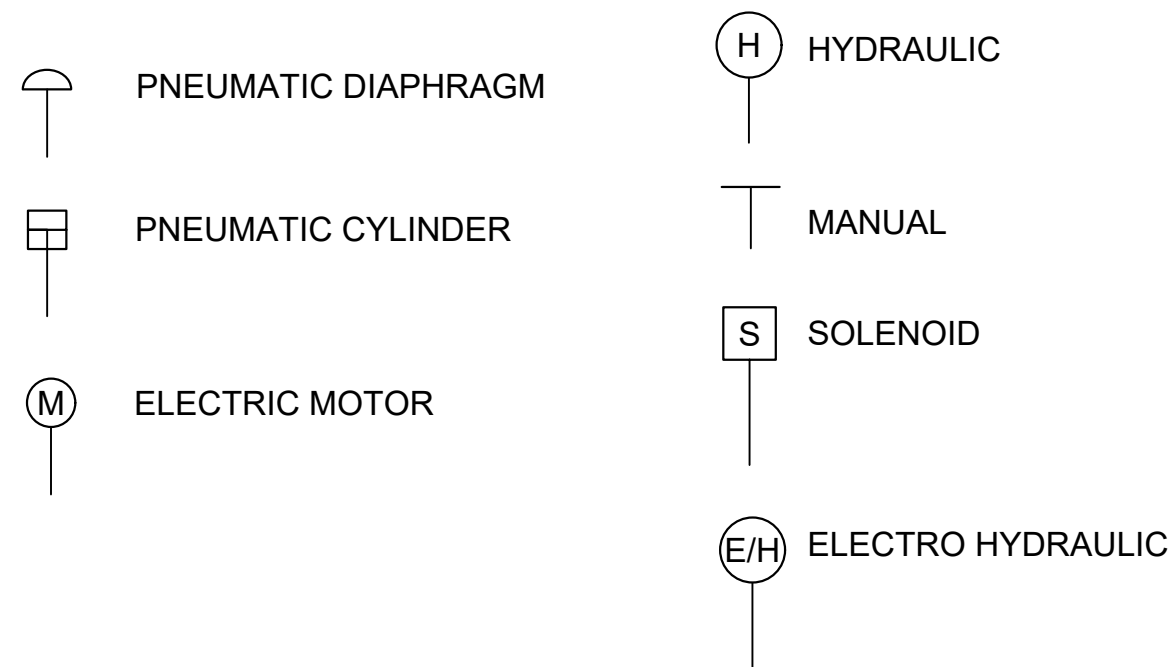


**VALVE DESIGNATIONS**

**MANUAL VALVES AND CHECK VALVES**



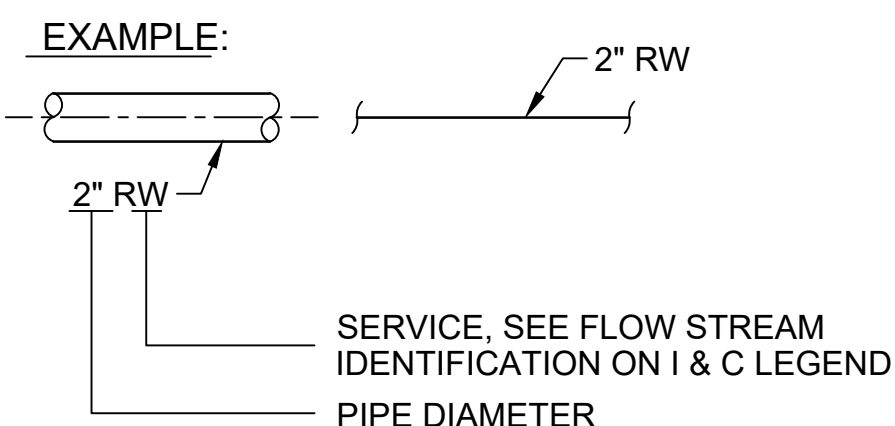
**ACTUATOR SYMBOLS**



**GENERAL PIPING NOTES**

1. LAY GRAVITY-FLOW PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
2. SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
3. CONTRACTOR SHALL DESIGN PIPE SUPPORTS AS SPECIFIED. THE ABSENCE OF PIPE SUPPORTS AND DETAILS ON CONTRACT DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF SIZING AND PROVIDING SUPPORTS THROUGHOUT THE FACILITY.
4. ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL.
5. ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST RESTRAINT AS SPECIFIED, UNLESS OTHERWISE NOTED. THRUST RESTRAINT SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
6. SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
7. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
8. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.
9. ALL EXISTING PIPE SHALL BE FIELD VERIFIED FOR LOCATION, SIZE AND MATERIAL. PROVIDE THRUST RESTRAINT AT ALL CONNECTIONS TO EXISTING PIPES.
10. THRUST RESTRAINT OF BURIED PIPING SHALL BE ACCOMPLISHED USING MECHANICALLY RESTRAINED JOINTS. THRUST BLOCKS SHALL NOT BE USED, UNLESS SPECIFICALLY IDENTIFIED ON THE DRAWINGS.
11. FLOW STREAM IDENTIFICATIONS ARE SHOWN ON THE INSTRUMENTATION AND CONTROL LEGENDS.
12. FOR PIPE SCHEDULE, SEE 40 05 13.

**PIPING DESIGNATION**



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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: A. LAWHON  
 DRAWN BY: D. CAVE  
 CHECKED BY: M. RIESS  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



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REGISTERED PROFESSIONAL ENGINEER  
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 33737 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL PROCESS MECHANICAL LEGEND AND NOTES

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO. MPG-0001-G-0401  
 SHT 16 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL**

- PIPING ABOVE FLOOR OR GRADE
- PIPING BELOW FLOOR OR GRADE
- PIPE TURNING UP
- PIPE TURNING DOWN

**VALVES**

- PLAN SECTION**
- BACKFLOW PREVENTER W/STRAINER (2" AND SMALLER)
  - BACKFLOW PREVENTER
  - BACKWATER VALVE
  - BALL VALVE
  - BUTTERFLY VALVE
  - CHECK VALVE
  - GATE VALVE
  - GLOBE VALVE
  - PLUG VALVE
  - PRESSURE REDUCING VALVE
  - THREE WAY VALVE

**PIPE FITTINGS**

- AIR VENT
- ANGLE VALVE
- AUTOMATIC VALVE STATION
- MANUAL VALVE STATION
- BASKET STRAINER
- BLIND FLANGE
- CAP
- FLEXIBLE CONNECTION
- FLOW CONTROL VALVE
- FLOW SENSOR METER
- HOSE FAUCET
- HOSE FAUCET W/VACUUM BREAKER
- HOSE VALVE W/HOSE NIPPLE
- METER
- P-TRAP
- PRESSURE REDUCING STATION
- PRESSURE RELIEF VALVE
- PRESSURE/TEMPERATURE RELIEF VALVE
- QUICK COUPLING
- REDUCER
- ROOF POST HYDRANT
- ROTAMETER
- SIGHT FLOW INDICATOR
- SLEEVE
- SUCTION DIFFUSER (SCHEMATIC)
- TEST PLUG
- TRAP PRIMER
- UNION
- WALL HYDRANT
- WYE STRAINER
- WYE STRAINER W/BLOWOFF
- VACUUM BREAKER
- VTR

**PLUMBING**

- BELL-UP DRAIN OR FUNNEL RECEPTOR W/TRAP
- CLEANOUT (FLOOR)
- CLEANOUT (PIPE)
- BLENDING VALVET
- DOWNSPOUT NOZZLE OR SHOWER
- EMERGENCY SHOWER/EYEWASH
- FLOOR DRAIN
- HOSE RACK
- HOSE REEL
- P-TRAP
- ROOF DRAIN
- SPLASH BLOCK
- WATER HAMMER ARRESTOR W/ PDI SIZE DESIGNATION

**GENERAL PLUMBING NOTES**

1. THIS IS A GENERAL LEGEND AND ABBREVIATION SHEET FOR THE PLUMBING DRAWINGS. SOME ITEMS CONTAINED ON THIS SHEET MAY NOT BE USED ON THIS SPECIFIC PROJECT.
2. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODES:  
2016 CALIFORNIA PLUMBING CODE  
2016 CITY AND COUNTY OF SAN FRANCISCO PLUMBING CODE AMENDMENTS  
2016 TITLE 24 REQUIREMENTS
3. FOR FLASHING DETAILS, SEE ARCHITECTURAL DRAWINGS.
4. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL EQUIPMENT CURB AND BASE DETAILS.
5. "SCREENED" DELINEATION DENOTES EXISTING AND NEW FACILITIES AND IS FOR REFERENCE ONLY. "LIGHT" LINE DELINEATION DENOTES EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. EXISTING FACILITY AND MECHANICAL SYSTEMS INFORMATION WAS TAKEN FROM PREVIOUS DRAWINGS, CONSTRUCTION RECORDS, DATA, AND FIELD SURVEY INFORMATION. ACTUAL LOCATION, ARRANGEMENT, AND DIMENSIONS SHALL BE FIELD VERIFIED AND WORK INSTALLED TO MEET ACTUAL CONDITIONS AND LOCATIONS ENCOUNTERED. "BOLD" (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
6. ALL PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRE-STOP SYSTEMS, EQUIPMENT AND ACCESSORIES TO RESIST THE PASSAGE OF FIRE, SMOKE AND OTHER GASES. THE ORIGINAL FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED SHALL BE MAINTAINED FOR ALL TYPES OF PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS.
7. METAL ROOF DECKING OR BOTTOM CHORD OF BAR JOISTS SHALL NOT BE USED FOR THE SUPPORT OF EQUIPMENT OR PIPING.
8. ALL HANGERS, BRACKETS, OR BRACES FOR EQUIPMENT, AND PIPING ARE NOT INDICATED ON THE DRAWINGS. REFER TO THE SPECIFICATIONS 40 05 07, 40 05 70.13, AND 40 05 07.16 FOR SUPPORT OF EQUIPMENT OR PIPING.
9. ALL EQUIPMENT AND PIPING FINAL LOCATIONS SHALL BE COORDINATED TO AVOID INTERFERENCES WITH STRUCTURE, OTHER PIPING, EQUIPMENT, DUCTWORK, AND CONDUIT. UNLESS SPECIFICALLY DIMENSIONED, THE PIPE ROUTING SHOWN IS INTENDED TO INDICATE GENERAL LOCATION ONLY. INSTALL DUCTWORK TO ALLOW FOR PIPING TO BE ROUTED NEAR WALLS.
10. ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE WITH A MINIMUM HEIGHT OF 8'-0" ABOVE THE WALKING SURFACE UNLESS OTHERWISE INDICATED BY A CENTERLINE, INVERT, OR BOTTOM OF DUCT ELEVATION.
11. PIPING INSTALLED ABOVE SUSPENDED CEILINGS SHALL BE INSTALLED TO ALLOW A MINIMUM 12 INCH CLEARANCE BETWEEN THE CEILING AND PIPING.
12. ALL HOSE FAUCETS AND HOSE VALVES SHALL BE INSTALLED 3'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. WALL HYDRANTS SHALL BE INSTALLED 2'-0" ABOVE GRADE UNLESS OTHERWISE NOTED.
13. ALL HOSE FAUCETS AND WALL HYDRANTS SHALL BE NOMINAL 3/4" PIPE SIZE UNLESS OTHERWISE NOTED. ALL HOSE VALVES SHALL BE 1 1/2" NOMINAL PIPE SIZE UNLESS OTHERWISE NOTED.
14. ALL HOSE FAUCETS, WALL HYDRANTS, AND OTHER OUTLETS ON NON-POTABLE WATER LINES WHICH COULD BE USED FOR DRINKING OR DOMESTIC USE SHALL BE POSTED AS REQUIRED BY THE APPLICABLE CODES. IN ABSENCE OF A CODE REQUIREMENT, THE OUTLETS SHALL BE POSTED WITH A TAG IN THE SHAPE OF A 4" EQUILATERAL TRIANGLE BEARING THE LEGEND "DANGER: UNSAFE WATER" IN LETTERS NOT LESS THAN 1/2" IN HEIGHT. THIS TAG SHALL BE SECURELY ATTACHED IN A VISIBLE LOCATION DIRECTLY ABOVE OUTLET. THE TAG SHALL BE PAINTED ORANGE AND THE LETTERS BLACK.
15. ALL RELIEF VALVES SHALL BE PIPED TO FLOOR OR BELL-UP DRAINS.
16. THE LOCATION OF PIPING AND VALVES TO THE AIR HANDLING EQUIPMENT SHALL NOT INTERFERE WITH FILTER REMOVAL OR AIR HANDLING EQUIPMENT SERVICING.
17. SEISMIC RESTRAINTS/BRACING SHALL BE PROVIDED FOR ALL EQUIPMENT. PIPING AND ACCESSORIES IN ACCORDANCE WITH THE LATEST SMACNA SEISMIC RESTRAINT MANUAL AND LOCAL BUILDING CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEISMIC SUPPORTS AND ADDITIONAL/MISCELLANEOUS STEEL REQUIRED FOR PROPER INSTALLATION OF SUPPORTS. SUPPORTS AND SEISMIC RESTRAINTS DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A LICENSED ENGINEER.
18. INSULATION SHALL BE PROVIDED FOR EQUIPMENT AND PIPING SYSTEMS AS INDICATED IN THE SPECIFICATIONS.
19. REFERENCE SHEET 000-G-01-7018 FOR ADDITIONAL VALVE AND FITTING INFORMATION.

**CONTROLS AND INSTRUMENTATION**

- CONTROL STATION
- DIAL TYPE THERMOMETER
- EMERGENCY VENTILATION SWITCH W/NUMBER
- FLOW SWITCH
- GAUGE ACTIVATOR/ISOLATOR
- INSTRUMENT TEST OPENING
- LEVEL SWITCH
- PRESSURE GAUGE W/SHUTOFF VALVE
- SOLENOID OPERATOR
- STEM TYPE THERMOMETER
- VACUUM GAUGE W/SHUTOFF VALVE

**UTILITY STATION NOTES**

1. UNLESS OTHERWISE NOTED, OR SHOWN ON ADJACENT HOSE RACK, PROVIDE ALL UTILITY WATER STATIONS WITH A WARNING SIGN THAT READS "CAUTION NON-POTABLE WATER DO NOT DRINK" DISPLAYED IN A PROMINENT PLACE AT THE UTILITY STATION.
2. PIPING TO UTILITY STATIONS SHALL BE FIELD ROUTED BY THE CONTRACTOR FROM THE NEAREST PIPING MAIN SHOWN ON THE MECHANICAL DRAWINGS IN ACCORDANCE WITH SECTION 40 50 01.
3. UNLESS SHOWN OTHERWISE, HOSE CONNECTIONS AND CROWN OF HOSE RACKS SHALL BE APPROXIMATELY 4' ABOVE FINISHED FLOOR.
4. PIPING AND FITTING MATERIALS SHALL BE PER SPECIFICATION 40 05 01.
5. SUPPORTS, RACKS, AND MOUNTINGS SHALL BE PER 000-G-75-8011 MATERIAL SELECTION TABLE ALL FASTENERS SHALL BE TYPE 316 STAINLESS STEEL.

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DESIGNED BY:  
S. SHRIEF  
 DRAWN BY:  
S. HOSTETTLER  
 CHECKED BY:  
T. PRICE  
 IN CHARGE:  
P. RUDE  
 DATE:  
10-17-2023



REGISTERED  
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 SHRIEF E. SHRIEF  
 39122  
 CALIFORNIA



**SITES RESERVOIR**

**MAXWELL / SITES PUMPING AND GENERATING  
GENERAL  
PLUMBING LEGEND**

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
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 SHT 17 OF 176

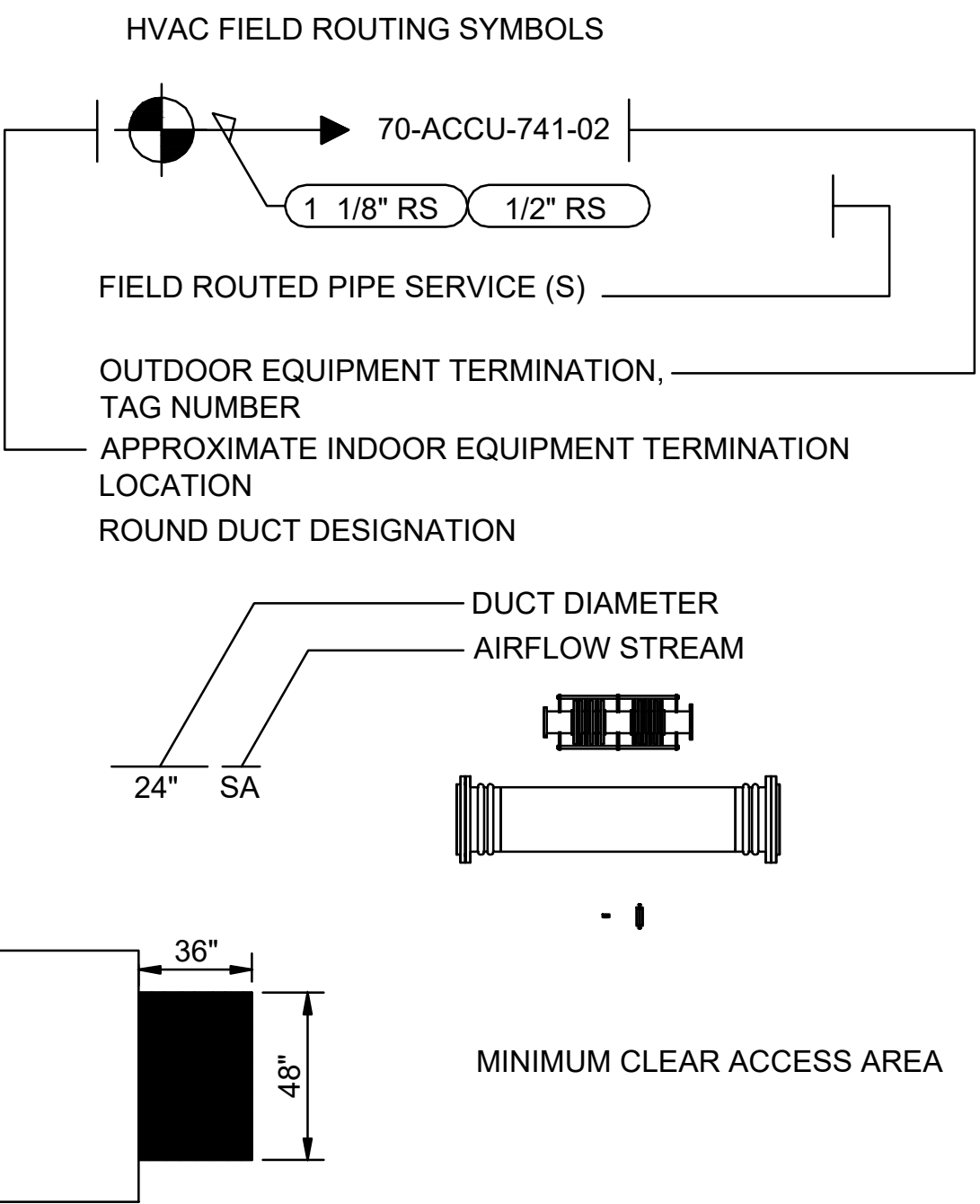
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PRELIMINARY - NOT FOR CONSTRUCTION

**DUCTWORK AND FITTINGS SYMBOLS LEGEND**

SYMBOL	DESCRIPTION
	DUCT SECTION SUPPLY UP/DOWN
	DUCT SECTION RETURN & EXHAUST UP/DOWN
	GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM, FLOW DIRECTION BY SHEET KEY NOTE
	GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM
	CEILING DIFFUSER NECK SIZE, SPECIFICATION NUMBER, CFM, FLOW DIRECTION BY SHEET KEY NOTE
	CEILING GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM
	RECTANGULAR DUCT DESIGNATION DUCT SIZE IN INCHES, FLOW STREAM
	DUCT SIZE IN INCHES, FLOW STREAM
	INCLINED DROP IN DIRECTION OF AIR FLOW
	INCLINED RISE IN DIRECTION OF AIR FLOW
	DUCT FLEXIBLE CONNECTION
	ACCESS DOOR
	DAMPER, TAG NUMBER
	FIRE DAMPER
	VOLUME DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
	GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM, FLOW DIRECTION BY SHEET KEY NOTE
	GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM, FLOW DIRECTION BY SHEET KEY NOTE
	GRILLE NECK SIZE, SPECIFICATION NUMBER, CFM, FLOW DIRECTION BY SHEET KEY NOTE

SYMBOL	DESCRIPTION
	LOUVER DUCT CONNECTION SIZE, ARROW INDICATES INTAKE OR EXHAUST, CFM
	45 DEGREE ENTRY
	CONICAL TEE
	BELLMOUTH
	FLEXIBLE DUCTWORK



**ABBREVIATIONS**

EF	EXHAUST FAN
GRV	GRAVITY VENT
SF	SUPPLY FAN

**GENERAL HVAC NOTES**

- ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.
- VERIFY AND COORDINATE EQUIPMENT LAYOUT, SIZE, AND CONNECTING SERVICES WITH EQUIPMENT ACTUALLY SELECTED FOR INSTALLATION.
- DO NOT SCALE DUCTWORK AND EQUIPMENT FOR SIZE.
- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEMS WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.
- COORDINATE LOCATION AND SIZE OF OPENINGS AND SUPPORTS BASED ON APPROVED HVAC EQUIPMENT, DUCT AND PIPING SHOP DRAWINGS.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
- ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES OR MATERIAL EXPOSED TO THE WEATHER SHALL BE SEALED WATERTIGHT.
- ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATION. PROVIDE HINGED ACCESS DOOR WHERE REQUIRED.
- THE LOCATION OF CEILING AIR INLETS AND OUTLETS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- PROVIDE VALVED DRAINS AT LOW POINTS, ALL AIR VENTS, WHERE SPECIFIED AND WHERE SHOWN ON DRAWINGS AND STANDARD DETAILS.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP-OR DOWN STREAM AS RECOMMENDED BY MANUFACTURER TO ACHIEVE PUBLISHED ACCURACY.
- ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 SPECIFICATIONS.
- CONCRETE HOUSEKEEPING PADS SHALL BE SIZED APPROPRIATELY FOR ACTUAL EQUIPMENT APPROVED FOR INSTALLATION.
- PROVIDE MAINTENANCE AND SAFETY CLEARANCES AROUND EACH TYPE OF HVAC EQUIPMENT AS SHOWN. SPECIFIED OR OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- DUCTWORK LAYOUT IS DIAGRAMMATIC ONLY. IN THE PROCESS TO COORDINATE THE DUCT INSTALLATION WITH OTHER TRADES, THE CONTRACTOR MAY REARRANGE THE DUCTWORK DOWNSTREAM OF VAV TERMINAL UNIT FOR AN OPTIMAL LAYOUT. THE FOLLOWING RULES SHALL FOLLOWED.
  - MAXIMUM OF FIVE DUCTS CAN BE CONNECTED TO THE VAV DISCHARGE PLENUM.
  - MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED LENGTH SPECIFIED IN SECTION 23 31 13, PART 3.
  - ROUND DUCT SIZE FOR THE TOTAL FLOW THROUGH THE BRANCH SHALL BE AS FOLLOWS:
 

0-60 CFM	5 INCH	605-900 CFM	14 INCH
65-95 CFM	6 INCH	905-1300 CFM	16 INCH
100-210 CFM	8 INCH	1305-1800 CFM	18 INCH
215-380 CFM	10 INCH	1805-2300 CFM	20 INCH
385-600 CFM	12 INCH		
- DUCTS SHALL NOT BE REINFORCED WITH TIE RODS OR OTHER INTERNAL REINFORCEMENT EXCEPT FOR DUCT DIMENSIONS GREATER THAN 85 INCH AND STATIC PRESSURE IN EXCESS OF 6 INCHES WG, AS REQUIRED BY SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE", THIRD EDITION.
- THIS IS A GENERAL LEGEND SHEET FOR HVAC DRAWINGS. SOME ITEMS CONTAINED ON THIS SHEET MAY NOT BE USED ON THIS SPECIFIC PROJECT.
- ROOFTOP EQUIPMENT CURBS ARE SPECIFIED IN SECTION 23 31 13. SEE ARCHITECTURAL DETAILS FOR FLASHING REQUIREMENTS.
- "SCREENED" DELINEATION DENOTES EXISTING AND NEW FACILITIES AND IS FOR REFERENCE ONLY. "LIGHT" LINE DELINEATION DENOTES EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. EXISTING FACILITY AND MECHANICAL SYSTEMS INFORMATION WAS TAKEN FROM PREVIOUS DRAWINGS, CONSTRUCTION RECORDS, DATA, AND FIELD SURVEY INFORMATION. ACTUAL LOCATION, ARRANGEMENT, AND DIMENSIONS SHALL BE FIELD VERIFIED AND WORK INSTALLED TO MEET ACTUAL CONDITIONS AND LOCATIONS ENCOUNTERED. "BOLD" (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
- ALL MATERIALS, FITTINGS, COVERS, AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE AND UL LISTED FOR USE IN RETURN AIR PLENUMS.
- ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RESISTANCE RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOP SYSTEMS, EQUIPMENT AND ACCESSORIES TO RESIST THE PASSAGE OF FIRE, SMOKE AND OTHER GASES. THE ORIGINAL FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED SHALL BE MAINTAINED FOR ALL TYPES OF PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS.
- METAL ROOF DECKING OR BOTTOM CHORD OF BAR JOISTS SHALL NOT BE USED FOR THE SUPPORT OF EQUIPMENT, PIPING, OR DUCTWORK UNLESS APPROVED BY THE REGISTERED STRUCTURAL DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- ALL HANGERS, BRACKETS, OR BRACES FOR DUCTWORK, EQUIPMENT, AND PIPING ARE GENERALLY NOT INDICATED ON THE DRAWINGS. REFER TO SECTION 23 31 13 AND STANDARD DETAILS FOR SUPPORT REQUIREMENTS NOT SHOWN ON THE PLANS.
- FIELD ROUTED PIPING AND CONDUIT INCLUDING BUT NOT LIMITED TO CONDENSATE, REFRIGERANT AND WIRING FOR H VAC EQUIPMENT AND CONTROLS SHALL NOT CAUSE A TRIPPING HAZARD OR HEAD KNOCKING HAZARD.
- ALL PIPING AND DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE WITH A MINIMUM HEIGHT OF 8'-0" ABOVE THE WALKING SURFACE UNLESS OTHERWISE INDICATED BY A CENTERLINE, INVERT, OR BOTTOM OF DUCT ELEVATION.
- PIPING AND DUCTWORK INSTALLED ABOVE SUSPENDED CEILINGS SHALL BE INSTALLED TO ALLOW A MINIMUM 6 INCH CLEARANCE BETWEEN THE TOP OF CEILING ASSEMBLY AND PIPING, BOTTOM OF THE DUCT, OR BOTTOM OF SUSPENDED EQUIPMENT.
- DUCTWORK SHALL BE FABRICATED, REINFORCED, SUPPORTED AND SEALED FOR OPERATING PRESSURES INDICATED IN THE SPECIFICATIONS FOR THE EQUIPMENT IT SERVES. ALL DUCTWORK SHALL HAVE A MINIMUM SMACNA PRESSURE CLASSIFICATION OF 1 INCH.
- DUCT SIZES INDICATED ARE CLEAR DIMENSIONS INSIDE THE DUCT OR DUCT LINING. SHEET METAL SIZES ARE LARGER FOR INTERNALLY LINED DUCTWORK.
- MINIMUM INSULATION THICKNESSES FOR DUCTWORK SHALL BE AS INDICATED IN THE SPECIFICATIONS.
- DUCT CONNECTIONS TO EQUIPMENT, PIPING SIZES TO EQUIPMENT, AND EQUIPMENT SUPPORTS SHALL BE VERIFIED AND ADJUSTED TO MATCH ACTUAL EQUIPMENT SELECTED FOR INSTALLATION.
- THE LOCATION OF PIPING AND VALVES TO THE AIR HANDLING AND AIR CONDITIONING EQUIPMENT SHALL NOT INTERFERE WITH FILTER REMOVAL, AIR HANDLING EQUIPMENT SERVICING, OR ELECTRICAL PANEL CLEARANCES.
- ROOFTOP EQUIPMENT SHALL NOT BE LOCATED SUCH THAT ACCESS TO CONTROLS AND TO PERFORM SERVICE FOR EQUIPMENT IS LOCATED WITHIN 10 FEET OF THE BUILDING EDGE UNLESS THE PARAPET IS 42 INCHES HIGH OR HIGHER.
- CONTROL DAMPER SIZES SHALL MATCH DIMENSIONS OF ASSOCIATED LOUVER OR DUCT UNLESS OTHERWISE INDICATED.
- SEISMIC RESTRAINTS/BRACING SHALL BE PROVIDED FOR ALL EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF THE LATEST SMACNA "SEISMIC RESTRAINT MANUAL", PROJECT SPECIFIC SEISMIC REQUIREMENTS, OR THE LATEST EDITION OF "GENERAL SEISMIC REQUIREMENTS FOR DESIGN OF NEW FACILITIES AND UPGRADE OF EXISTING FACILITIES", AS PUBLISHED BY SFPUC ENGINEERING MANAGEMENT BUREAU. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEISMIC SUPPORTS AND ADDITIONAL/MISCELLANEOUS STEEL REQUIRED FOR PROPER INSTALLATION OF SUPPORTS. SUPPORTS AND SEISMIC RESTRAINTS DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF CALIFORNIA LICENSED STRUCTURAL ENGINEER.
- INSULATION SHALL BE PROVIDED FOR EQUIPMENT, PIPING, AND DUCT SYSTEMS AS INDICATED IN SECTIONS 23 07 00 AND 40 42 00 AND STANDARD DETAILS.
- BOTTOM OF DUCT (BOD) ELEVATIONS ARE MEASURED FROM FINISHED FLOOR TO THE BOTTOM OF THE DUCT BEFORE APPLYING INSULATION.
- INSULATED STEAM, STEAM CONDENSATE, HEATING WATER SUPPLY AND RETURN PIPING PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS M1020 AND M1021 RESPECTIVELY.

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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	S. SHRIEF
DRAWN BY:	S. HOSTETLER
CHECKED BY:	T. PRICE
IN CHARGE:	P. RUDE
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**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL HVAC LEGEND

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
0 1"  
DRAWING NO.  
MPG-0001-G-0502  
SHT 18 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

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LEGEND	
<b>GENERAL</b>	
	PIPING ABOVE FLOOR OR GRADE
	PIPING BELOW FLOOR OR GRADE
	PIPE TURNING UP
	PIPE TURNING DOWN
	AREA PROTECTED BY FIRE PROTECTION SYSTEM
	AREA PROTECTED BY FIRE PROTECTION SYSTEM
<b>FIRE PROTECTION FITTINGS</b>	
	BLIND FLANGE
	CAP
	REDUCER
	SLEEVE
	TEST PLUG
	UNION
<b>FITTINGS</b>	
	AIR VENT
	AUTOMATIC VALVE STATION
	BASKET STRAINER
	FIRE DEPARTMENT CONNECTION
	FLEXIBLE CONNECTION
	HOSE CONNECTION
	PRESSURE REDUCING STATION
	PRESSURE RELIEF VALVE
	PRESSURE/TEMPERATURE RELIEF VALVE
	WYE STRAINER
	WYE STRAINER W/BLOWOFF
<b>VALVES</b>	
<b>PLAN</b>	<b>SECTION</b>
<b>CONTROLS AND INSTRUMENTATION</b>	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUCIATOR
	SPRINKLER FLOW ALARM BELL AND STROBE
	DUCT SMOKE DETECTOR
	ACCESSIBLE RELAY MODULE
	FLOW SWITCH
	TAPER SWITCH
	PRESSURE SENSORCAP
	REMOTE TEST STATION

GENERAL FIRE PROTECTION NOTES	
1.	THIS IS A GENERAL LEGEND AND ABBREVIATION SHEET FOR THE FIRE PROTECTION DRAWINGS. SOME ITEMS CONTAINED ON THIS SHEET MAY NOT BE USED ON THIS SPECIFIC PROJECT.
2.	ALL FIRE PROTECTION WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE FOLLOWING CODES: 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA BUILDING CODE NFPA STANDARDS (EDITIONS REFERENCED IN THE BUILDING AND FIRE CODE)
3.	FOR ROOFTOP EQUIPMENT CURBS, FLUES, AND FLASHING DETAILS, SEE ARCHITECTURAL DRAWINGS.
4.	SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ALL EQUIPMENT BASE DETAILS.
5.	"SCREENED" DELINEATION DENOTES EXISTING AND NEW FACILITIES AND IS FOR REFERENCE ONLY. "LIGHT" LINE DELINEATION DENOTES EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. EXISTING FACILITY AND MECHANICAL SYSTEMS INFORMATION WAS TAKEN FROM PREVIOUS DRAWINGS, CONSTRUCTION RECORDS, DATA, AND FIELD SURVEY INFORMATION. ACTUAL LOCATION, ARRANGEMENT, AND DIMENSIONS SHALL BE FIELD VERIFIED AND WORK INSTALLED TO MEET ACTUAL CONDITIONS AND LOCATIONS ENCOUNTERED. "BOLD" (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
6.	ALL PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOP SYSTEMS, EQUIPMENT AND ACCESSORIES TO RESIST THE PASSAGE OF FIRE, SMOKE AND OTHER GASES. THE ORIGINAL FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED SHALL BE MAINTAINED FOR ALL TYPES OF PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS.
7.	METAL ROOF DECKING OR BOTTOM CHORD OF BAR JOISTS SHALL NOT BE USED FOR THE SUPPORT OF EQUIPMENT OR PIPING.
8.	ALL HANGERS, BRACKETS, OR BRACES FOR EQUIPMENT, AND PIPING ARE NOT INDICATED ON THE DRAWINGS. REFER TO THE SPECIFICATIONS FOR SUPPORT REQUIREMENTS NOT SHOWN ON THE PLANS.
9.	ALL EQUIPMENT AND PIPING FINAL LOCATIONS SHALL BE COORDINATED TO AVOID INTERFERENCES WITH STRUCTURE, OTHER PIPING, EQUIPMENT, DUCTWORK, AND CONDUIT. UNLESS SPECIFICALLY DIMENSIONED, THE PIPE ROUTING SHOWN IS INTENDED TO INDICATE GENERAL LOCATION ONLY. INSTALL DUCTWORK TO ALLOW FOR PIPING TO BE ROUTED NEAR WALLS.
10.	ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE WITH A MINIMUM HEIGHT OF 8'-0" ABOVE THE WALKING SURFACE UNLESS OTHERWISE INDICATED BY A CENTERLINE, INVERT, OR BOTTOM OF DUCT ELEVATION.
11.	PIPING INSTALLED ABOVE SUSPENDED CEILINGS SHALL BE INSTALLED TO ALLOW A MINIMUM 6 INCH CLEARANCE BETWEEN THE CEILING AND PIPING OR BOTTOM OF DUCT.
12.	ALL RELIEF VALVES SHALL BE PIPED TO FLOOR OR BELL-UP DRAINS.
13.	SEISMIC RESTRAINTS/BRACING SHALL BE PROVIDED FOR ALL EQUIPMENT, PIPING AND ACCESSORIES IN ACCORDANCE WITH THE LATEST SMACNA SEISMIC RESTRAINT MANUAL AND LOCAL BUILDING CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEISMIC SUPPORTS AND ADDITIONAL/MISCELLANEOUS STEEL REQUIRED FOR PROPER INSTALLATION OF SUPPORTS. SUPPORTS AND SEISMIC RESTRAINTS DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A LICENSED ENGINEER.
14.	INSULATION SHALL BE PROVIDED FOR EQUIPMENT AND PIPING SYSTEMS AS REQUIRED TO MEET APPLICABLE CODES AND STANDARDS.
15.	ANY HATCH PATTERN SHOWN ON THE FIRE SUPPRESSION OR FIRE DETECTION SYSTEM DRAWINGS INDICATES THE AREA PROTECTED BY THE FIRE PROTECTION SYSTEM. REFER TO FIRE PROTECTION SYSTEM SPECIFICATIONS FOR DETAILS ABOUT FIRE PROTECTION REQUIREMENT.
16.	FIRE SUPPRESSION DRAWINGS SHOW A DIAGRAMMATIC SYSTEM TO INCORPORATE MAJOR ELEMENTS FOR THE CONDITIONAL APPROVAL PRIOR TO THE FINAL DESIGN AND SUBMISSION PROVIDED THE FINAL LAYOUT, DESIGN, AND CALCULATIONS SUBMIT DESIGN, CALCULATIONS AND PROPOSED EQUIPMENT TO THE APPLICABLE AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL.
17.	DRAWINGS INDICATE DESIGN INTENT AND GENERAL ROUTING OF FIRE, AND SPRINKLER PIPING. PROVIDE ADDITIONAL OFFSETS, FITTINGS, PROVIDING ADDITIONAL SPRINKLER HEADS TO MEET CODE REQUIREMENTS, ETC. TO COORDINATE PIPING LAYOUT WITH STRUCTURAL, DUCTWORK, PIPING, CONDUIT, ETC.
18.	COORDINATE WITH OTHER TRADES, VERIFY DIMENSION, CONDITIONS AND LAYOUT AT JOB SITE PRIOR TO FABRICATION OF MATERIAL AND PROVIDE ADDITIONAL MATERIAL OF MODIFICATIONS TO FURNISH A COMPLETE AND OPERABLE SPRINKLER SYSTEM TO MEET THE REQUIRED CODES.
19.	SPRINKLER PIPING WILL BE SIZED SING HYDRAULIC CALCULATIONS. DENSITY AND AREA OF APPLICATION MUST BE PER FIRE PROTECTION REQUIREMENTS TABLE ON THIS DRAWING. SPRINKLER SYSTEM VELOCITY MUST NOT EXCEED 20 FEET PER SECOND.
20.	CONTROL VALVES AND FLOW SWITCHES FOR THE FIRE SPRINKLER SYSTEM TO BE ELECTRONICALLY SUPERVISED AND MONITORED BY BASE FIRE DEPARTMENT. FLOW SWITCHES AND TAMPER SWITCHES MUST BE FURNISHED AND INSTALLED BY DIV. 21. WIRING TO FIRE ALARM SYSTEM MUST BE TERMINATED AND TESTED BY DIV. 28.
21.	CLEAN, PRE-TREAT, AND PRIME SPRINKLER PIPING, PAINT SPRINKLER PIPING WITH ONE COAT OF RED ALKYD GLASS ENAMEL. INSTALL LABELS AND FLOW ARROWS AFTER PAINT IS DRY. FLOW ARROWS NOT REQUIRED ON LOOP OR GROUND SYSTEMS.
22.	MATERIALS MUST BE U.L. LISTED AND/OR FM APPROVED.

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY:  
J. CUTZ  
 DRAWN BY:  
S. HOSTETLER  
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**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FIRE PROTECTION LEGEND

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
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ONE-LINE DIAGRAM

CONTROL DIAGRAM

SYMBOL	DESCRIPTION
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, MAGNETIC TRIP SHOWN, TRIP RATING SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO
	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO
	FUSE, CURRENT RATING AND QUANTITY INDICATED
	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO
	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE
	CABLE OR BUS CONNECTION POINT
	KEY INTERLOCK
	SURGE ARRESTER (GAS TYPE)
	CAPACITOR - KVAR INDICATED, 3 PHASE
	AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED
	GENERATOR, KW/KVA RATING SHOWN
	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE      KW = KILOWATTS A = AMPERAGE      KVAR = KILOVAR PF = POWER FACTOR
	DIGITAL POWER METER (MULTIFUNCTION)
	UTILITY REVENUE METER
	GROUND
	TRANSFORMER, SIZE, VOLTAGE RATINGS AND PHASE INDICATED
	SHIELDED ISOLATION TRANSFORMER
	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED
	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	SURGE PROTECTIVE DEVICE
	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE
	NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE

SYMBOL	DESCRIPTION
	DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE
	MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR BELOW
	SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE
	SWITCH W/ARCING HORNS, MEDIUM VOLTAGE
	DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE
	SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	GROUND SWITCH, GANG OPERATED
	TERMINAL BLOCK LUG
	DELTA CONNECTION
	WYE GROUNDED CONNECTION, SOLID GROUND
	WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION
	RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED
	CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED
	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED
	MOTOR OPERATOR, BREAKER OR SWITCH
	ENERGY MOTORING UNIT
	MULTI-FUNCTION DIGITAL RELAY MPR = MOTOR PROTECTION RELAY FMR = FEEDER MANAGEMENT RELAY MMR = MAIN MANAGEMENT RELAY GPR = GENERATOR PROTECTIVE RELAY

SYMBOL	DESCRIPTION																
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN																
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED																
	PUSH-BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK																
	3 POSITION SELECTOR SWITCH MAINTAINED CONTACT																
	SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY																
<table border="1"> <thead> <tr> <th colspan="4">POSITION</th> </tr> <tr> <th>CKT</th> <th>HAND</th> <th>OFF</th> <th>REMOTE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X</td> <td>O</td> <td>O</td> </tr> <tr> <td>2</td> <td>O</td> <td>O</td> <td>X</td> </tr> </tbody> </table>	POSITION				CKT	HAND	OFF	REMOTE	1	X	O	O	2	O	O	X	X - CLOSED CONTACT O - OPEN CONTACT
POSITION																	
CKT	HAND	OFF	REMOTE														
1	X	O	O														
2	O	O	X														
	TOGGLE SWITCH, ON-OFF TYPE																
	SELECTOR SWITCH, ON-OFF TYPE																
	MUSHROOM HEAD PUSHBUTTON SWITCH																
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR																
	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER    G - GREEN    S - STROBE B - BLUE     R - RED C - CLEAR    W - WHITE																
	ELAPSED TIME METER																
	MOTOR STARTER CONTACTOR COIL																
	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT																
	TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT																
	SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT																
	CONTACT - NORMALLY OPEN																
	CONTACT - NORMALLY CLOSED																
	REMOTE DEVICE																
	TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSSES WHEN ENERGIZED AND TIMED OUT																
	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT																
	TIME DELAY RELAY CONTACT, CLOSSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT																
	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSSES WHEN DE-ENERGIZED AND TIMED OUT																
	MOTOR SPACE HEATER																
	TERMINAL BLOCK, REMOTE																
	TERMINAL BLOCK, INTERNAL																
	FUSED TERMINAL BLOCK																
	FUSE RATING INDICATED																
	TRANSFORMER, CONTROL POWER																
	THERMOCOUPLE																
	CAPACITOR																
	BATTERY																

SYMBOL	DESCRIPTION
	LIMIT SWITCH, NORMALLY OPEN, CLOSSES AT END OF TRAVEL
	LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL
	TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE
	TEMPERATURE SWITCH, CLOSSES ON TEMPERATURE RISE
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON DESCENDING LEVEL
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON RISING LEVEL
	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE
	PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE
	FLOW SWITCH, CLOSSES ON INCREASED FLOW
	FLOW SWITCH, OPENS ON INCREASED FLOW
	NEUTRAL GROUND CURRENT LIMITING RESISTOR
	CALIBRATING RESISTOR
	TACHOMETER GENERATOR
	GROUND FAULT SENSOR
	FLASHER
	SEALED CONTACT
	BUZZER
	POTENTIOMETER
	RESISTOR
	BLOWN FUSE INDICATOR
	COAXIAL CABLE
	DUPLEX RECEPTACLE
	RELAY, WITH MECHANICAL LATCH
	FULLWAVE DIODE BRIDGE (AC TO DC)

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REV	DATE	BY	CHK	APPR	DESCRIPTION

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MAXWELL / SITES PUMPING AND GENERATING  
GENERAL  
ELECTRICAL LEGEND 1

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
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SHT 20 OF 176

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POWER SYSTEM PLAN

FIRE ALARM SYSTEM PLAN AND RISER

SECURITY SYSTEM PLAN AND RISER

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN
	PANELBOARD - SURFACE MOUNTED PANELBOARD LETTER OR NUMBER FACILITY NUMBER LP - LOW VOLTAGE PANEL DP - DISTRIBUTION PANEL
	PANELBOARD - FLUSH MOUNTED
	TERMINAL JUNCTION BOX
	MOTOR, SQUIRREL CAGE INDUCTION
	GENERATOR, VOLTAGE AND SIZE AS INDICATED
	HOME RUN - DESTINATION SHOWN
	EXPOSED CONDUIT AND CONDUCTORS*
	CONCEALED CONDUIT AND CONDUCTORS*
	<b>NOTE:</b> ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUCTORS IN 3/4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE.
	CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
	CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED
	CONDUIT TERMINATION AT CABLE TRAY
	EXISTING CONDUIT / DUCT BANK
	BUS DUCT - SEE SPECIFICATIONS
	CONCRETE ENCASED CONDUIT
	DIRECT BURIED CONDUIT
	FIBER OPTIC CONDUIT
	CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION
	CONCEALED CONDUIT ROUTING AREA
	CONDUIT ROUTING AREA
	CABLE TRAY
	TRANSFORMER
	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE
	CONTROL STATION. SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED
	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE
	FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60 = SWITCH RATING / 40 = FUSE RATING) 3 POLE
	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED
	BREAKER SEPARATELY MOUNTED, CURRENT RATING INDICATED (100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE
	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED
	LIGHTING CONTACTOR, CURRENT RATING INDICATED
	STARTER, MAGNETIC NEMA SIZE INDICATED

SYMBOL	DESCRIPTION
	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE WP - WEATHERPROOF C - CLOCK HANGER TL - TWIST LOCK CRE - CORROSION RESISTANT GFCI - GROUND FAULT CIRCUIT INTERRUPTER SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT
	240V RECEPTACLE
	CONVENIENCE RECEPTACLE - QUADRUPLEX
	MULTI OUTLET ASSEMBLY
	DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR
	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE
	RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE INDICATED
	THERMOSTAT
	UTILITY REVENUE METERING FACILITY
	ELECTRIC UNIT HEATER
	ELECTRIC AIR CONDITIONER (SELF CONTAINED UNIT)
	UTILITY POLE

LIGHTING SYSTEM PLAN

	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE WITH INTERNAL BATTERY BACKUP, SEE SCHEDULE
	STRIP LUMINAIRE, SEE SCHEDULE
	LUMINAIRE AND POLE, SEE SCHEDULE
	WALL MOUNTED LUMINAIRE, SEE SCHEDULE
	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN
	STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE
	EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE, ARROW INDICATES EGRESS DIRECTIONAL INDICATORS, XX = FIXTURE NUMBER, SEE SCHEDULE
	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT
	WALL SWITCH: 2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER WP- WEATHERPROOF CRE- CORROSION RESISTANT EX- EXPLOSIONPROOF L- MOMENTARY 3-WAY M - MOTOR RATED MS- MANUAL STARTER WITH OVERLOADS LV- ON/OFF/DIMMING (0-10V)
	OCCUPANCY SENSOR
	LIGHTING CONTACTOR
	MOTION DETECTOR
	PHOTOCELL

FIRE ALARM SYSTEM PLAN AND RISER

	FIRE ALARM STATION, MANUAL
	FIRE ALARM SYSTEM, AUTOMATIC SMOKE DETECTOR
	FIRE ALARM SYSTEM, AUTOMATIC, HEAT DETECTOR
	FIRE ALARM BELL

SYMBOL	DESCRIPTION
	FIRE ALARM HORN
	FIRE ALARM HORN / STROBE LIGHT
	FIRE ALARM STROBE LIGHT
	AIR DUCT DETECTOR
	FIRE SPRINKLER FLOW SWITCH
	FIRE SPRINKLER TAMPER SWITCH
	DOOR HOLDER

TELEPHONE SYSTEM PLAN AND RISER

	TELEPHONE TERMINAL CABINET
	TELEPHONE RECEPTACLE FLOOR BOX
	TELEPHONE RECEPTACLE
	TELEPHONE SYSTEM RACEWAY

COMPUTER SYSTEM (DATA) PLAN AND RISER

	COMPUTER SYSTEM TERMINAL CABINET
	COMPUTER NETWORK CONNECTION
	COMPUTER NETWORK CONNECTION, FLUSH IN FLOOR
	DATA SYSTEM RACEWAY

COMBINED TELEPHONE/COMPUTER SYSTEM PLAN AND RISER

	COMBINATION TELEPHONE/DATA RECEPTACLE. WALL MOUNTED, NUMBER OF PORTS INDICATED
	COMBINATION TELEPHONE/DATA RECEPTACLE. FLOOR BOX, NUMBER OF PORTS INDICATED

CLOSED CIRCUIT/TELEVISION CABLE PLAN AND RISER

	COMBINATION CLOSED CIRCUIT TELEVISION RECEPTACLE (CCTV) AND DUPLEX CONVENIENCE RECEPTACLE IN TWO GANG BOX WITH BARRIER, 12" DOWN FROM CEILING
	COMBINATION TELEVISION CABLE RECEPTACLE (TV) AND DUPLEX CONVENIENCE RECEPTACLE IN TWO GANG BOX WITH BARRIER, 12" DOWN FROM CEILING
	CLOSED CIRCUIT TELEVISION RECEPTACLE, FLOOR BOX
	TELEVISION CABLE RECEPTACLE, FLOOR BOX

SOUND SYSTEM PLAN AND RISER

	SPEAKER, CONE TYPE, RECESSED IN CEILING, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE
	SPEAKER, CONE TYPE, WALL MOUNTED
	SPEAKER, CONE TYPE, SURFACE MOUNTED
	VOLUME CONTROL, WALL MOUNT 5'-0" AFF
	INTERIOR PAGING TRUMPET SOUND REPRODUCER WITH REMOTE AMPLIFIER, SURFACE MOUNTED
	MICROPHONE OUTLET
	SOUND SYSTEM RACEWAY
	COMMUNICATION STATION

SYMBOL	DESCRIPTION
	CARD KEY ACCESS
	CONTROL STATION
	DOOR SWITCH
	EGRESS PUSHBUTTON
	ELECTRONIC LOCK M = MAGNETIC S = STRIKE
	INTERCOM
	MONITOR
	MOTION SENSOR
	VIDEO CAMERA PTZ = PAN/TILT/ZOOM F = FIXED

GROUND SYSTEM PLAN

	GROUND ROD
	GROUND ROD IN TEST WELL
	GROUNDING CONDUCTOR, SIZE AS INDICATED
	PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME
	EQUIPMENT GROUND BUS
	EQUIPMENT NEUTRAL BUS

Plot Date: 8/23/2023 8:46 AM Saved By: GARCIAE1 File: C:\pwworking\hdr\_sites\_reservoir\dms01711\MPG-001-G-0602.dwg

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:	C. CUSWORTH
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CHECKED BY:	J. LANDMAN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

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



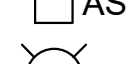



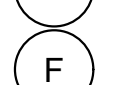







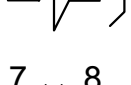
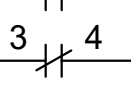
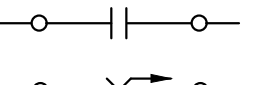
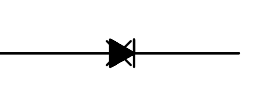

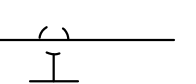

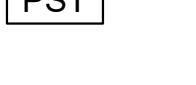




REGISTERED PROFESSIONAL ENGINEER  
CRAIG M. CUSWORTH  
19120 CALIFORNIA

SITES RESERVOIR  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL ELECTRICAL LEGEND 2

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS. 0 1"
DRAWING NO. MPG-001-G-0602 SHT 21 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 1**

SYMBOL	DESCRIPTION
51 or 	DEVICE FUNCTION NUMBER INDICATED, SEE DEVICE TABLE
	CONTROL SWITCH TRIP
	CONTROL SWITCH CLOSE
43/CS	43 - DEVICE FUNCTION NUMBER, SEE DEVICE TABLE
	VOLTMETER SWITCH
	AMMETER SWITCH
	INDICATING LAMP - SWITCHBOARD TYPE INDICATING LAMP LENS COLORS INDICATED AS FOLLOWS: A - AMBER R - RED B - BLUE W - WHITE G - GREEN
	VOLTMETER
	AMMETER
	WATTMETER
	FREQUENCY METER
	POWER FACTOR METER
	WATT-HOUR METER
	ELAPSED TIME METER
	TACHOMETER
	WATTS TRANSDUCER
	POWER FACTOR TRANSDUCER
	TIME DELAY
	RELAY COIL, DEVICE FUNCTION NUMBER PER ANSI 37.2 - AMERICAN STANDARD MANUAL AND AUTOMATIC STATION CONTROL, SUPERVISORY AND ASSOCIATED TELEMETRY EQUIPMENT
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	REMOTE DEVICE
	TEST SWITCH CURRENT ELEMENT
	TEST SWITCH POTENTIAL ELEMENT
	NEUTRAL CONNECTION
	DIODE
	INSTRUMENTATION CABLE, SHIELDED
	NEUTRAL GROUNDING RESISTOR
	PHASE SHIFTING TRANSFORMER

**ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 2**

DEVICE FUNCTION NO.	DEVICE DESCRIPTION
21	IMPEDANCE/DISTANCE RELAY
25A	AUTOMATIC SYNCHRONIZER
25C	SYNCH CHECK RELAY
27	UNDERVOLTAGE RELAY
32	REVERSE POWER RELAY
40	GENERATOR LOSS OF EXCITATION RELAY
43CSE	AUTOMATIC POWER TRANSFER AND LOAD CONTROL MODE SEL. SWITCH
43CSX	MODE SEL. SWITCH
46	GENERATOR CURRENT UNBALANCE RELAY
49	THERMAL RELAY
50GS	INSTANTANEOUS OVERCURRENT DEVICE, GROUND SENSOR
50	INSTANTANEOUS OVERCURRENT DEVICE,
51	TIME OVERCURRENT RELAY
51G	TIME OVERCURRENT RELAY, GROUND FAULT
51V	TIME OVERCURRENT, VOLTAGE RESTRAINED
52	POWER CIRCUIT BREAKER
52CSX	POWER CIRCUIT BREAKER CONTROL SWITCH
59	OVERVOLTAGE RELAY
60	VOLTAGE OR CURRENT BALANCE RELAY
65A	ENGINE GOVERNOR, SPEED CONTROL
65A, MOP	ENGINE GOVERNOR, SPEED CONTROL MOTOR OPERATED POTENTIOMETER
65A, RL	ENGINE GOVERNOR, SPEED CONTROL RAISE/LOWER SWITCH
65B	ENGINE GOVERNOR, LOAD CONTROL
65B, MOP	ENGINE GOVERNOR, LOAD CONTROL MOTOR OPERATED POTENTIOMETER
65B, RL	ENGINE GOVERNOR, % LOAD RAISE/LOWER SWITCH
65E	AUTOMATIC POWER TRANSFER AND LOAD CONTROL, WOODWARD APTL
65F	AUTOMATIC GENERATOR LOADING CONTROL, WOODWARD AGLC
67	DIRECTIONAL TIME OVERCURRENT RELAY
74	ALARM RELAY
810/U	FREQUENCY RELAY, OVER/UNDER
86	LOCKOUT RELAY
87	DIFFERENTIAL PROTECTIVE RELAY
90	VOLTAGE REGULATOR
90, MOP	ENGINE EXCITATION, POWER OPERATED POTENTIOMETER
90PF	ENGINE EXCITATION, POWER FACTOR CONTROL
90RL	ENGINE EXCITATION, RAISE/LOWER SWITCH

X = DEVICE NUMBER, WHEN THERE ARE MULTIPLE UNITS

**GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION**

POWER CIRCUIT CALLOUTS		MULTICONDUCTOR POWER CABLE CIRCUIT CALLOUTS	
[P1]	[1/2"FLEX, 2#12, #12G]	[P24]	[1"C, 3#8, 3#14, 1#10G]
[P2]	[3/4"C, 2#12, 1#12G]	[P25]	[1"C, 3#8, 4#14, 1#10G]
[P3]	[3/4"C, 3#12, 1#12G]	[P26]	[1"C, 3#8, 5#14, 1#10G]
[P4]	[3/4"C, 4#12, 1#12G]	[P27]	[1"C, 2#6, 1#10G]
[P5]	[3/4"C, 5#12, 1#12G]	[P28]	[1"C, 3#6, 1#8G]
[P6]	[3/4"C, 6#12, 1#12G]	[P29]	[1"C, 3#6, 2#14, 1#8G]
[P7]	[3/4"C, 7#12, 1#12G]	[P30]	[1 1/4"C, 3#6, 3#14, 1#8G]
[P8]	[3/4"C, 8#12, 1#12G]	[P31]	[1 1/4"C, 3#6, 4#14, 1#8G]
[P9]	[3/4"C, 3#12, 2#14, 1#12G]	[P32]	[1 1/4"C, 3#6, 5#14, 1#8G]
[P10]	[3/4"C, 3#12, 3#14, 1#12G]	[P33]	[1 1/4"C, 3#4, 1#8G]
[P11]	[3/4"C, 3#12, 4#14, 1#12G]	[P34]	[1 1/4"C, 3#4, 3#14, 1#8G]
[P12]	[3/4"C, 3#12, 5#14, 1#12G]	[P35]	[1 1/4"C, 3#4, 5#14, 1#8G]
[P13]	[3/4"C, 3#12, 6#14, 1#12G]	[P36]	[1 1/4"C, 3#3, 1#6G]
[P14]	[1"C, 3#12, 7#14, 1#12G]	[P37]	[1 1/4"C, 3#3, 3#14, 1#6G]
[P15]	[3/4"C, 2#10, 1#10G]	[P38]	[1 1/4"C, 3#2, 1#6G]
[P16]	[3/4"C, 3#10, 1#10G]	[P39]	[1 1/2"C, 3#1, 1#6G]
[P17]	[3/4"C, 3#10, 2#14, 1#10G]	[P40]	[2"C, 3#1, 3#14, 1#6G]
[P18]	[3/4"C, 3#10, 3#14, 1#10G]	[P41]	[2"C, 3#2/0, 1#4G]
[P19]	[3/4"C, 3#10, 4#14, 1#10G]	[P42]	[2"C, 3#3/0, 1#4G]
[P20]	[1"C, 3#10, 5#14, 1#10G]	[P43]	[2"C, 3#4/0, 1#3G]
[P21]	[1"C, 2#8, 1#10G]		
[P22]	[1"C, 3#8, 1#10G]		
[P23]	[1"C, 3#8, 2#14, 1#10G]		
ANALOG CIRCUIT CALLOUTS		CONTROL CIRCUIT CALLOUTS	
[A1]	[3/4"C, 1 TYPE 3]	[C1]	[3/4"C, MSC]
[A2]	[3/4"C, 2 TYPE 3]	[C2]	[3/4"C, 2#14, 1#14G]
[A3]	[1"C, 3 TYPE 3]	[C3]	[3/4"C, 3#14, 1#14G]
[A4]	[1 1/4"C, 4 TYPE 3]	[C4]	[3/4"C, 4#14, 1#14G]
[A5]	[1 1/4"C, 5 TYPE 3]	[C5]	[3/4"C, 5#14, 1#14G]
[A6]	[1 1/4"C, 6 TYPE 3]	[C6]	[3/4"C, 6#14, 1#14G]
[A7]	[1 1/2"C, 7 TYPE 3]	[C7]	[3/4"C, 7#14, 1#14G]
[A8]	[1 1/2"C, 8 TYPE 3]	[C8]	[3/4"C, 8#14, 1#14G]
[A9]	[1 1/2"C, 9 TYPE 3]	[C9]	[3/4"C, 9#14, 1#14G]
[A10]	[2"C, 10 TYPE 3]	[C10]	[3/4"C, 10#14, 1#14G]
[A11]	[2"C, 11 TYPE 3]	[C11]	[3/4"C, 11#14, 1#14G]
[A12]	[2"C, 12 TYPE 3]	[C12]	[3/4"C, 12#14, 1#14G]
[A13]	[2"C, 13 TYPE 3]	[C13]	[3/4"C, 13#14, 1#14G]
[A14]	[2"C, 14 TYPE 3]	[C14]	[1"C, 14#14, 1#14G]
[A15]	[3/4"C, 1 TYPE 4]	[C15]	[1"C, 15#14, 1#14G]
[A16]	[3/4"C, 2 TYPE 4]	[C16]	[1"C, 16#14, 1#14G]
[A17]	[1"C, 3 TYPE 4]	[C17]	[1"C, 17#14, 1#14G]
[A18]	[1 1/4"C, 4 TYPE 4]	[C18]	[1"C, 18#14, 1#14G]
[A19]	[1 1/4"C, 5 TYPE 4]	[C19]	[1"C, 19#14, 1#14G]
[A20]	[1 1/4"C, 6 TYPE 4]	[C20]	[1"C, 20#14, 1#14G]
[A21]	[1 1/2"C, 7 TYPE 4]	[C21]	[1"C, 21#14, 1#14G]
[A22]	[1 1/2"C, 8 TYPE 4]	[C22]	[1"C, 22#14, 1#14G]
[A23]	[2"C, 9 TYPE 4]	[C23]	[1"C, 23#14, 1#14G]
[A24]	[3/4"C, 1-4 pr. TYPE 5]	[C24]	[1 1/4"C, 24#14, 1#14G]
[A25]	[1"C, 2-4 pr. TYPE 5]	[C25]	[1 1/4"C, 25#14, 1#14G]
MULTICONDUCTOR CONTROL CABLE CIRCUIT CALLOUTS		[EC-1]	[3/4"C, WITH PULL STRING]
[CC3]	[3/4"C, 1-3C TYPE 1]	[EC-2]	[1"C, WITH PULL STRING]
[CC5]	[3/4"C, 1-5C TYPE 1]	[EC-3]	[1 1/4"C, WITH PULL STRING]
[CC7]	[3/4"C, 1-7C TYPE 1]	[EC-4]	[1 1/2"C, WITH PULL STRING]
[CC9]	[1"C, 1-9C TYPE 1]	[EC-5]	[2"C, WITH PULL STRING]
[CC12]	[1"C, 1-12C TYPE 1]	[EC-6]	[3"C, WITH PULL STRING]
[CC19]	[1 1/2"C, 1-19C TYPE 1]	[EC-7]	[4"C, WITH PULL STRING]
[CC25]	[1 1/2"C, 1-25C TYPE 1]	[EC-8]	[5"C, WITH PULL STRING]
[CC37]	[2"C, 1-37C TYPE 1]		
[CCC1]	[1-7C #12 TYPE 1]		

**NOTES:**

- FOR CABLE TYPES, SEE SPECIFICATIONS.
- POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
- SIZING OF CONDUCTORS #14WG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C. SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".
- FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:

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Saved By: GARCIAET  
File: C:\pwworking\hdr\_sites\_reservoir\dwg\01711\MPG-0001-G-0603.dwg

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:	C. CUSWORTH
DRAWN BY:	E. GARCIA
CHECKED BY:	J. LANDMAN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

**Jacobs**  
2525 AIRPARK DR  
REDDING, CA 96001  
(530) 243-5831

REGISTERED PROFESSIONAL ENGINEER  
CRAIG M. CUSWORTH  
19120 CALIFORNIA



**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL ELECTRICAL LEGEND 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
DRAWING NO. MPG-0001-G-0603 SHT 22 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

INSTRUMENT IDENTIFICATION

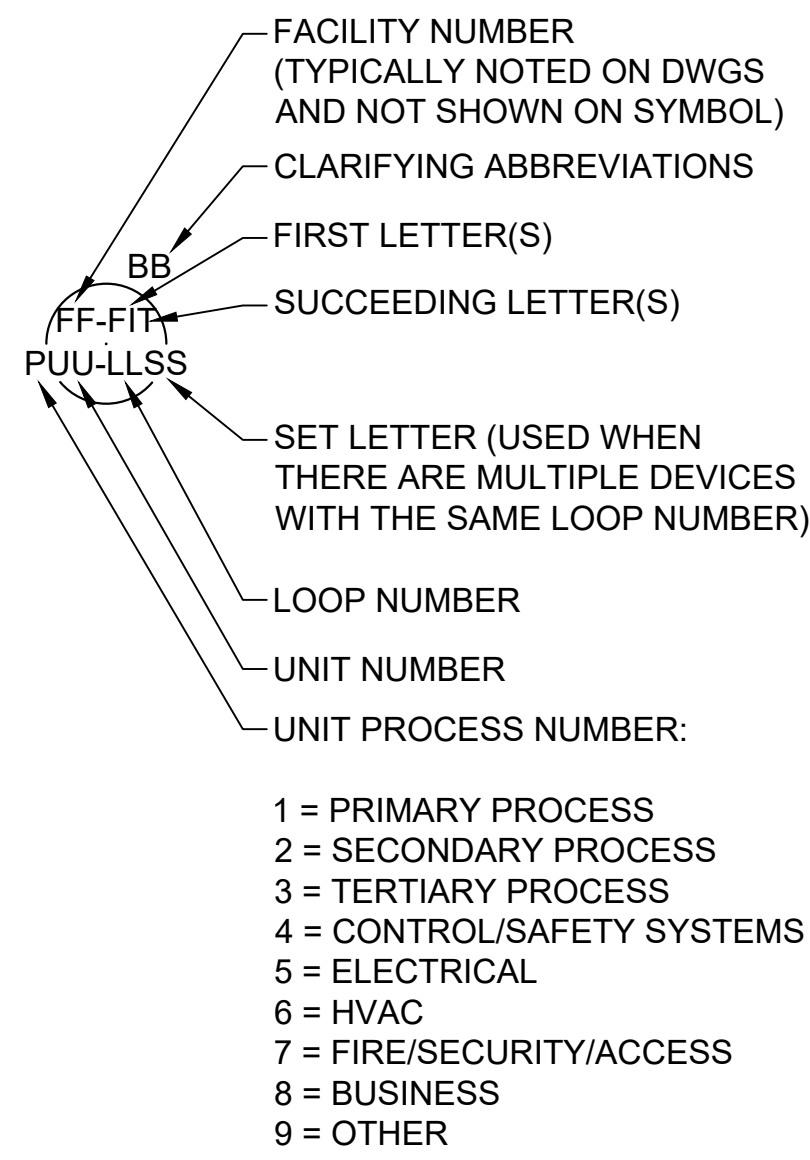
INSTRUMENT IDENTIFICATION LETTERS TABLE

LETTER	FIRST-LETTER		SUCCEEDING-LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION
A	ANALYSIS (+)		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
C	USER'S CHOICE (*)			CONTROL	
D	DENSITY (S.G.)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT, SENSOR		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE (*)		GLASS, GAUGE VIEWING DEVICE	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION	MOMENTARY			MIDDLE, INTERMEDIATE
N	TORQUE		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
O	USER'S CHOICE (*)		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTI VARIABLE		MULTI FUNCTION	MULTI FUNCTION	MULTI FUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED (*)	X AXIS	UNCLASSIFIED (*)	UNCLASSIFIED (*)	UNCLASSIFIED (*)
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION	Z AXIS		DRIVE, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.  
(\*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT.

EXAMPLE SYMBOLS

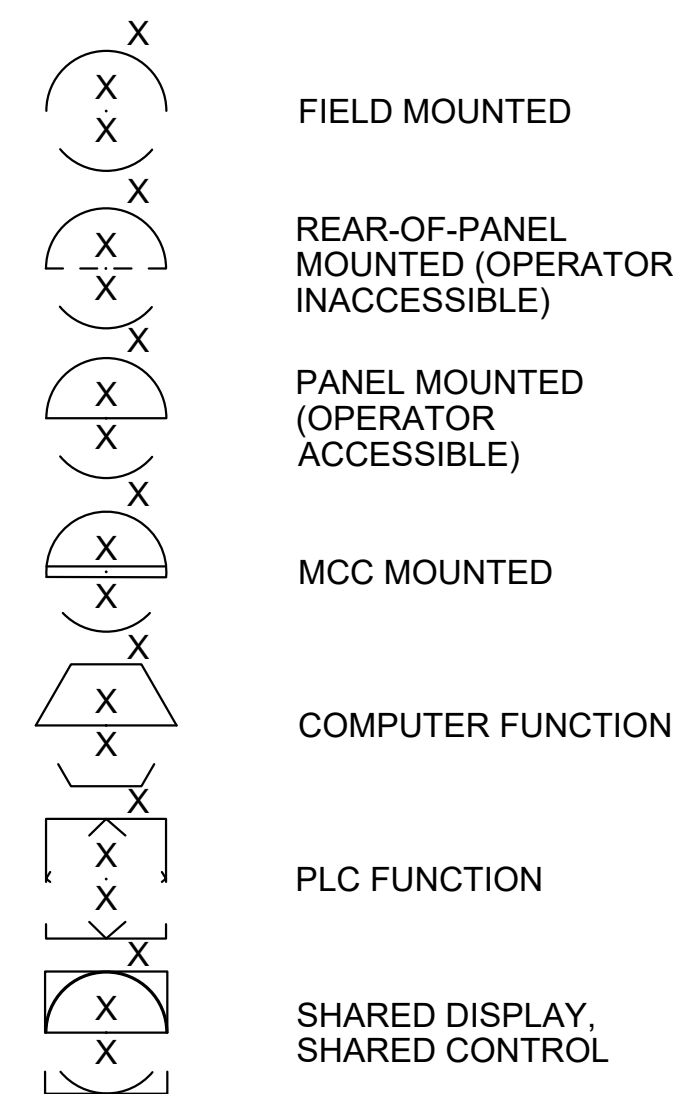


- 1 = PRIMARY PROCESS
- 2 = SECONDARY PROCESS
- 3 = TERTIARY PROCESS
- 4 = CONTROL/SAFETY SYSTEMS
- 5 = ELECTRICAL
- 6 = HVAC
- 7 = FIRE/SECURITY/ACCESS
- 8 = BUSINESS
- 9 = OTHER

DIGITAL SYSTEM INTERFACES

- ▲ ANALOG INPUT
- ▼ ANALOG OUTPUT
- △<sub>X</sub> DISCRETE INPUT
- ▽<sub>X</sub> DISCRETE OUTPUT

GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS



TRANSDUCERS

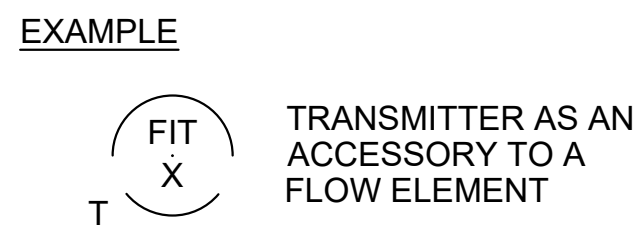
A	ANALOG	I	CURRENT
D	DIGITAL	P	PNEUMATIC
E	VOLTAGE	PF	PULSE FREQUENCY
F	FREQUENCY	PD	PULSE DURATION
H	HYDRAULIC	R	RESISTANCE

EXAMPLE  

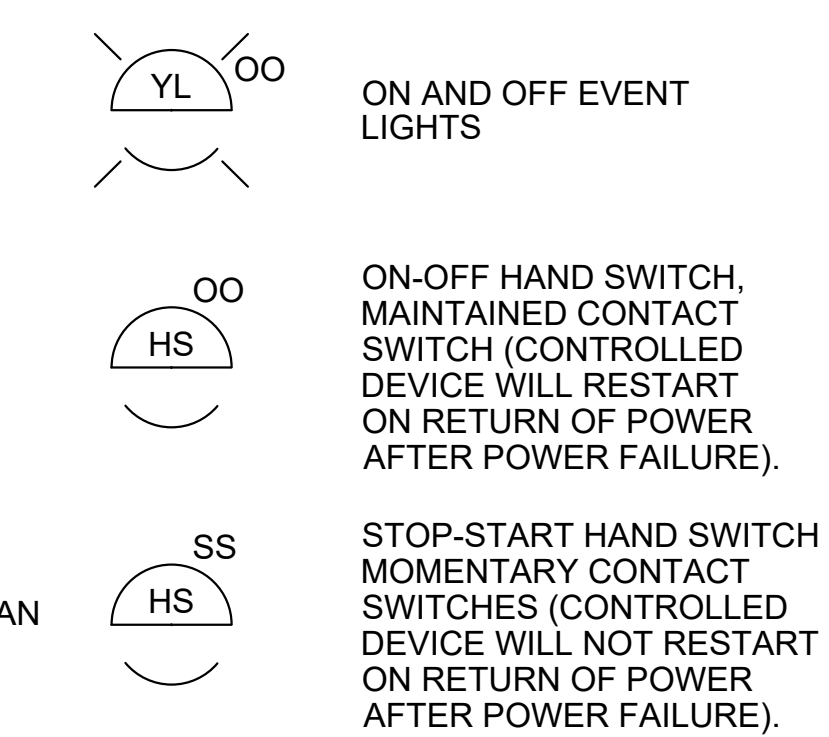
 CURRENT TO PNEUMATIC TRANSDUCER (BACK OF PANEL, IN A FLOW LOOP)

ACCESSORY DEVICES

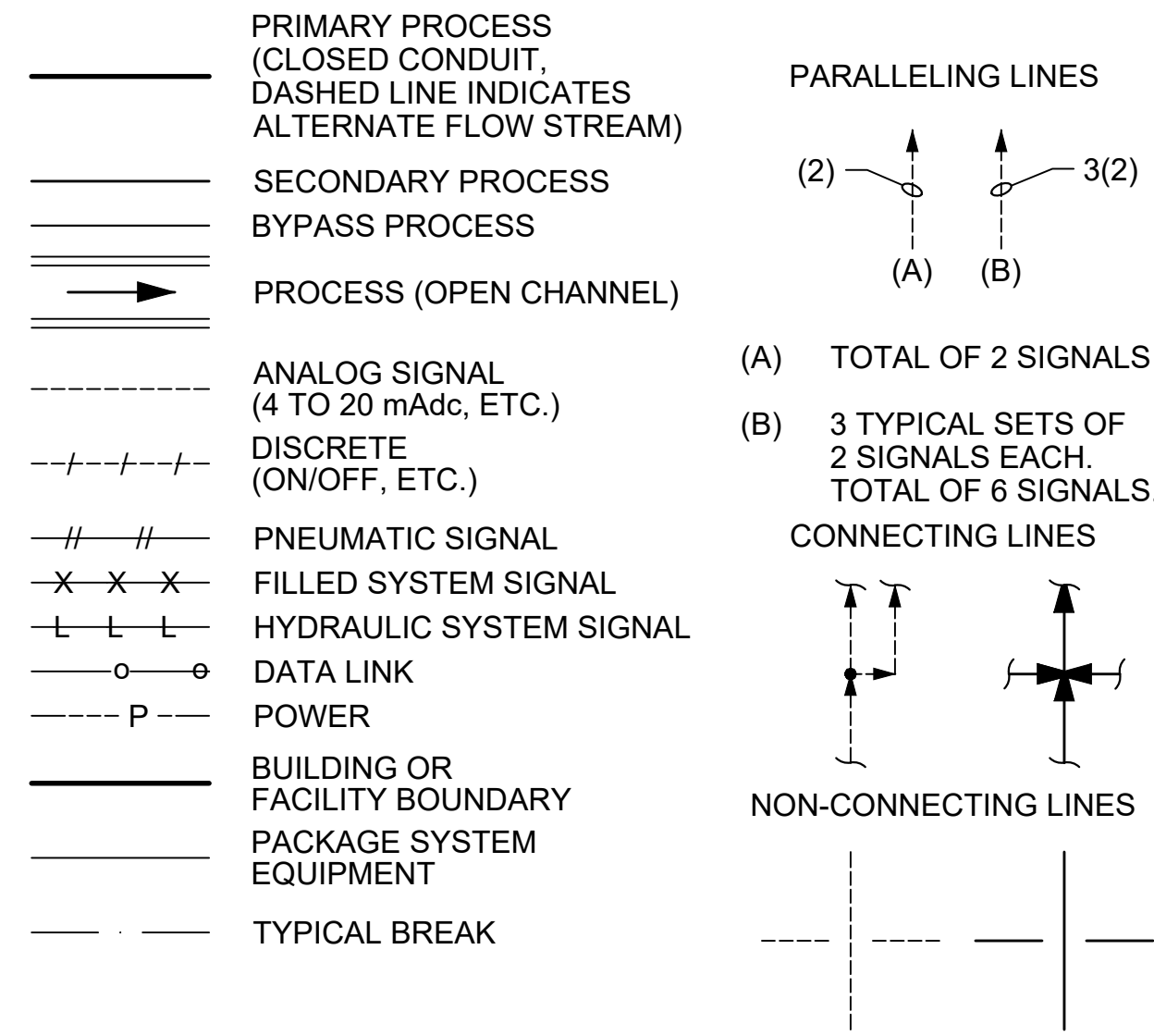
A	ALARM
C	CONTROLLER
I	INDICATOR
R	RECORDER
S	SWITCH
T	TRANSMITTER
X	UNCLASSIFIED



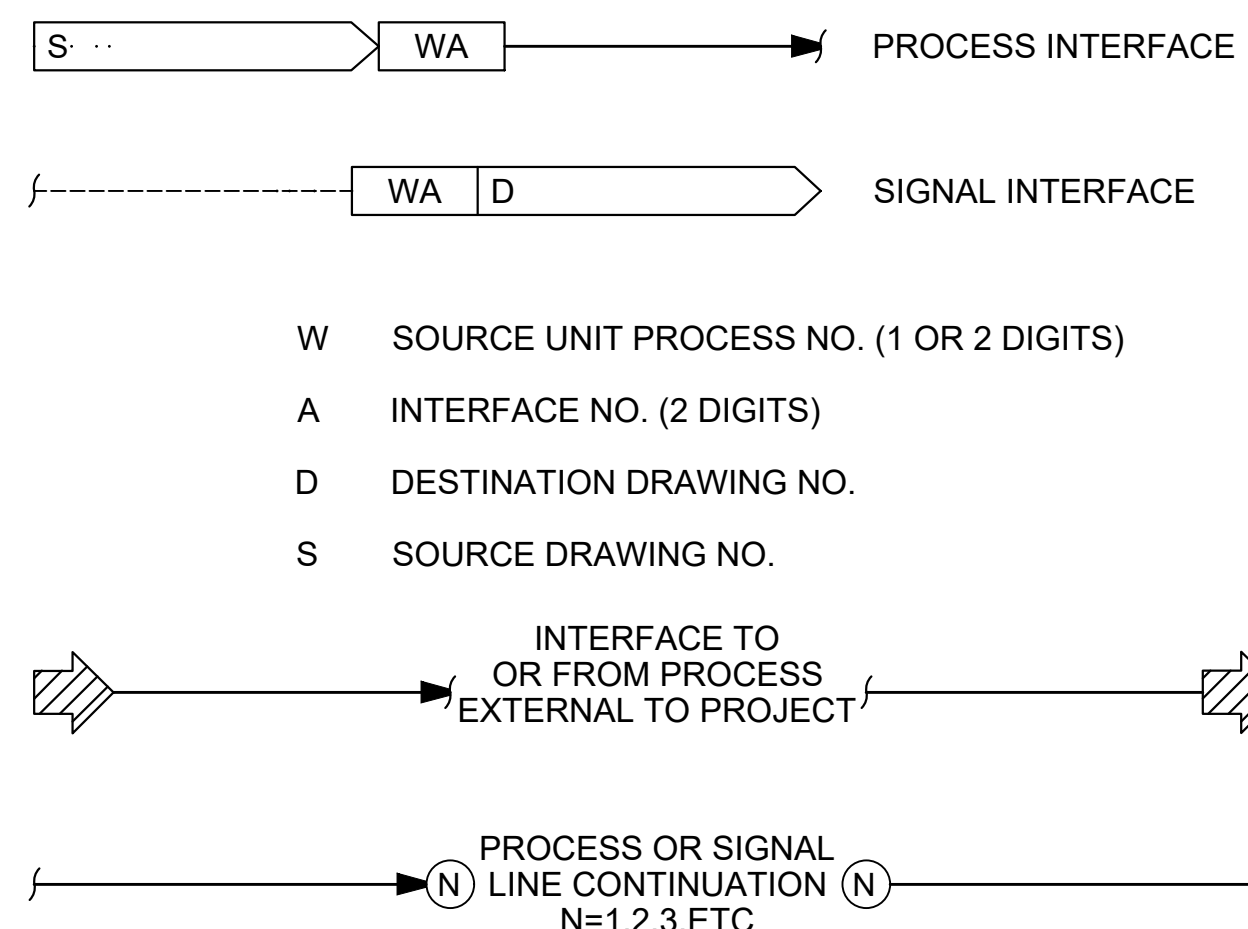
SPECIAL CASES



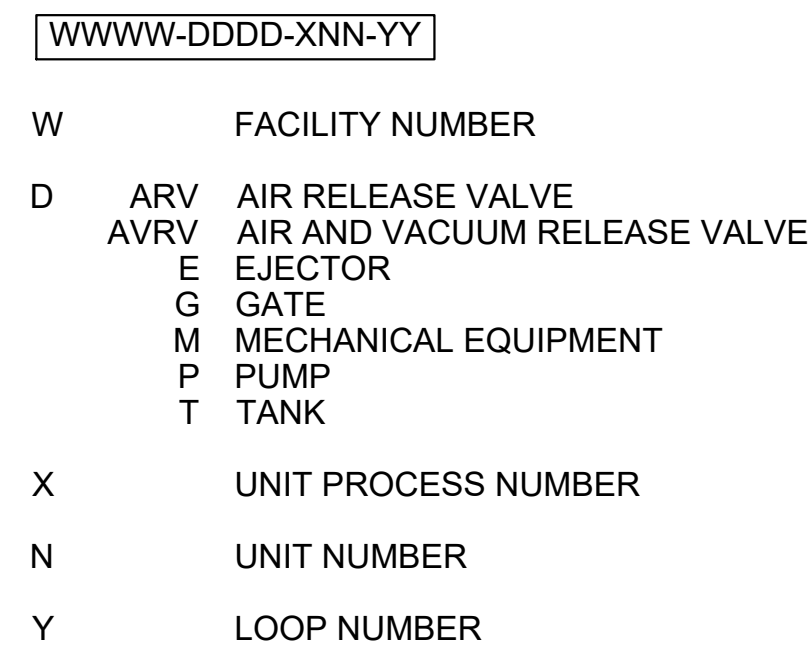
LINE LEGEND



INTERFACE SYMBOLS



SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS



ABBREVIATIONS & LETTER SYMBOLS

AC	ALTERNATING CURRENT
AM	AUTO-MANUAL
CAM	COMPUTER-AUTO-MANUAL
CCS	CENTRAL CONTROL SYSTEM
CL <sub>2</sub> etc.	CHLORINE (TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATIONS)
CM	COMPUTER-MANUAL
COD	CHEMICAL OXYGEN DEMAND
CP-X	CONTROL PANEL NO. X
DC	DIRECT CURRENT
DCS	DISTRIBUTED CONTROL SYSTEM
DCU	DISTRIBUTED CONTROL UNIT
DO	DISSOLVED OXYGEN
FCL <sub>2</sub>	FREE CHLORINE RESIDUAL
FOS	FAST-OFF-SLOW
FOSA	FAST-OFF-SLOW-AUTO
FOSR	FAST-OFF-SLOW-REMOTE
FP-W-X	FIELD PANEL NO. WX (W=UNIT PROCESS NUMBER X=PAGE NUMBER)
FR	FORWARD-REVERSE
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
ISR	INTRINSICALLY SAFE RELAY
LFL	LOWER EXPLOSIVE LIMIT
LOS	LOCKOUT STOP
LR	LOCAL-REMOTE
MA	MANUAL-AUTO
MC	MODULATE-CLOSE
MCC-X	MOTOR CONTROL CENTER NO. X
MSC	MANUFACTURER SUPPLIED CABLE
OC	OPEN-CLOSE(D)
OCA	OPEN-CLOSE-AUTO
OCR	OPEN-CLOSE-REMOTE
OO	ON-OFF
OOA	ON-OFF-AUTO
OOR	ON-OFF-REMOTE
ORP	OXIDATION REDUCTION POTENTIAL
OSC	OPEN-STOP-CLOSE
pH	HYDROGEN ION CONCENTRATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
RIO	REMOTE I/O UNIT
RM-X	REMOTE MULTIPLEXING MODULE NO. X
RTU-X	REMOTE TELEMETRY UNIT NO. X
SF	SLOWER-FASTER
SS	START-STOP
SSC	SUPERVISORY SET POINT CONTROL
TCL <sub>2</sub>	TOTAL CHLORINE RESIDUAL
TOC	TOTAL ORGANIC CARBON
TOD	TOTAL OXYGEN DEMAND
TURB	TURBIDITY
VHC	VOLATILE HYDROCARBONS
VIB	VIBRATION
Δ	DIFFERENCE
Σ	SUM
x	MULTIPLY
÷	DIVIDE
F(x)	CHARACTERIZED
X <sup>n</sup>	RAISED TO THE Nth POWER
√	SQUARE ROOT
AVG	AVERAGE
1:1	REPEAT OR BOOST
>	SELECT HIGHEST SIGNAL
<	SELECT LOWEST SIGNAL
}	BIAS
%	GAIN OR ATTENUATE

GENERAL NOTES

- COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (\*) ARE TO BE PROVIDED AS PART OF A PACKAGE SYSTEM.
- COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK (\*\*) ARE TO BE PROVIDED UNDER DIVISION 16, ELECTRICAL.
- THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THE PROJECT.

DESIGNED BY: D. JOHNSON  
 DRAWN BY: E. GARCIA  
 CHECKED BY: M. JOHNSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



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 DEREK S. JOHNSON  
 7671 CALIFORNIA

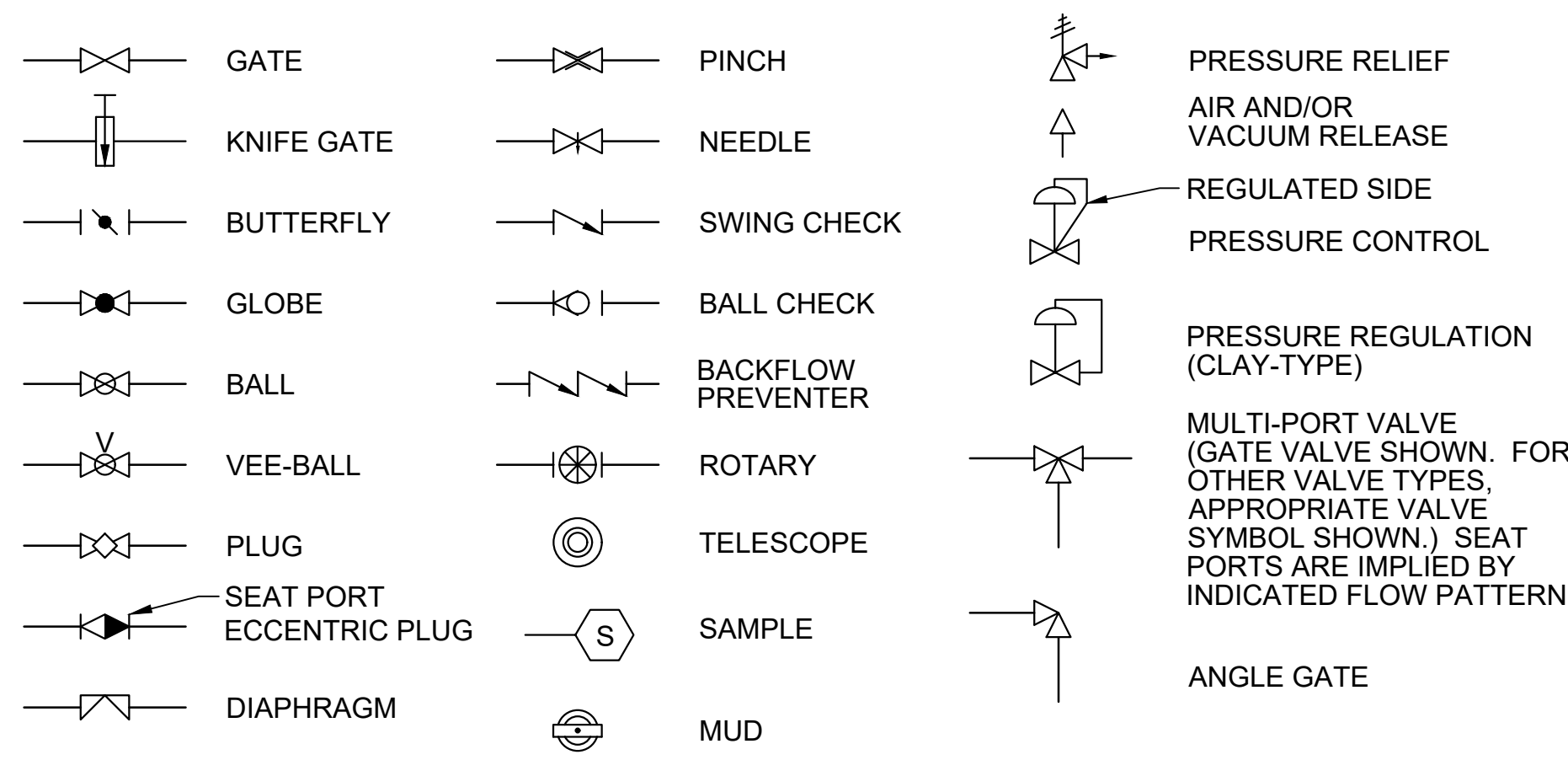


SITES RESERVOIR

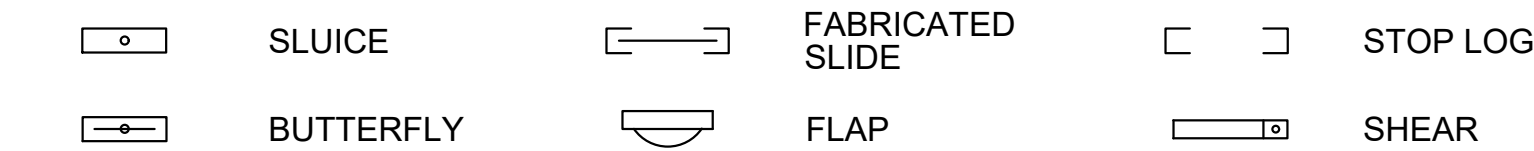
MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL INSTRUMENTATION AND CONTROLS  
 LEGEND 1

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO. MPG-0001-G-0701  
 SHT 23 OF 176

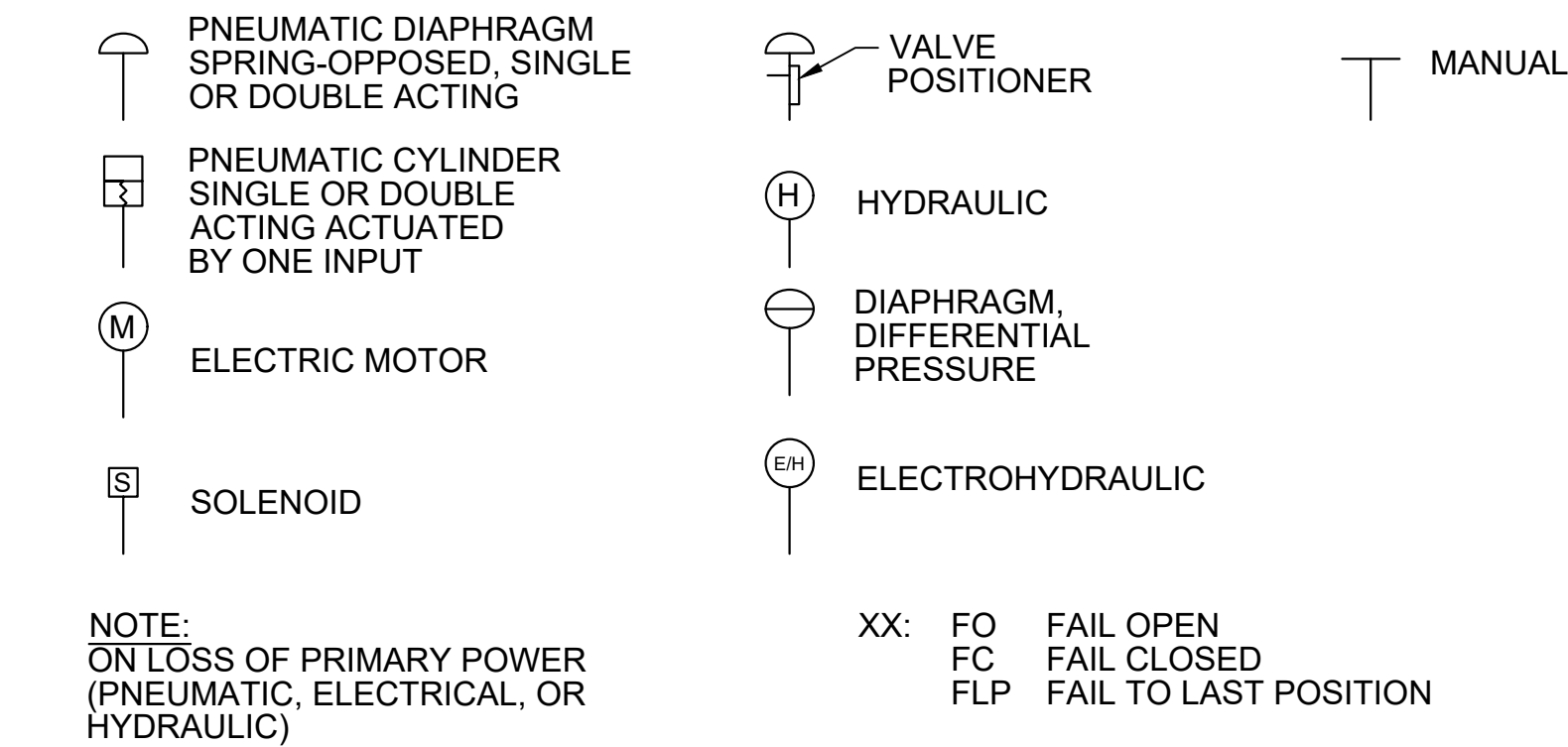
**VALVE SYMBOLS**



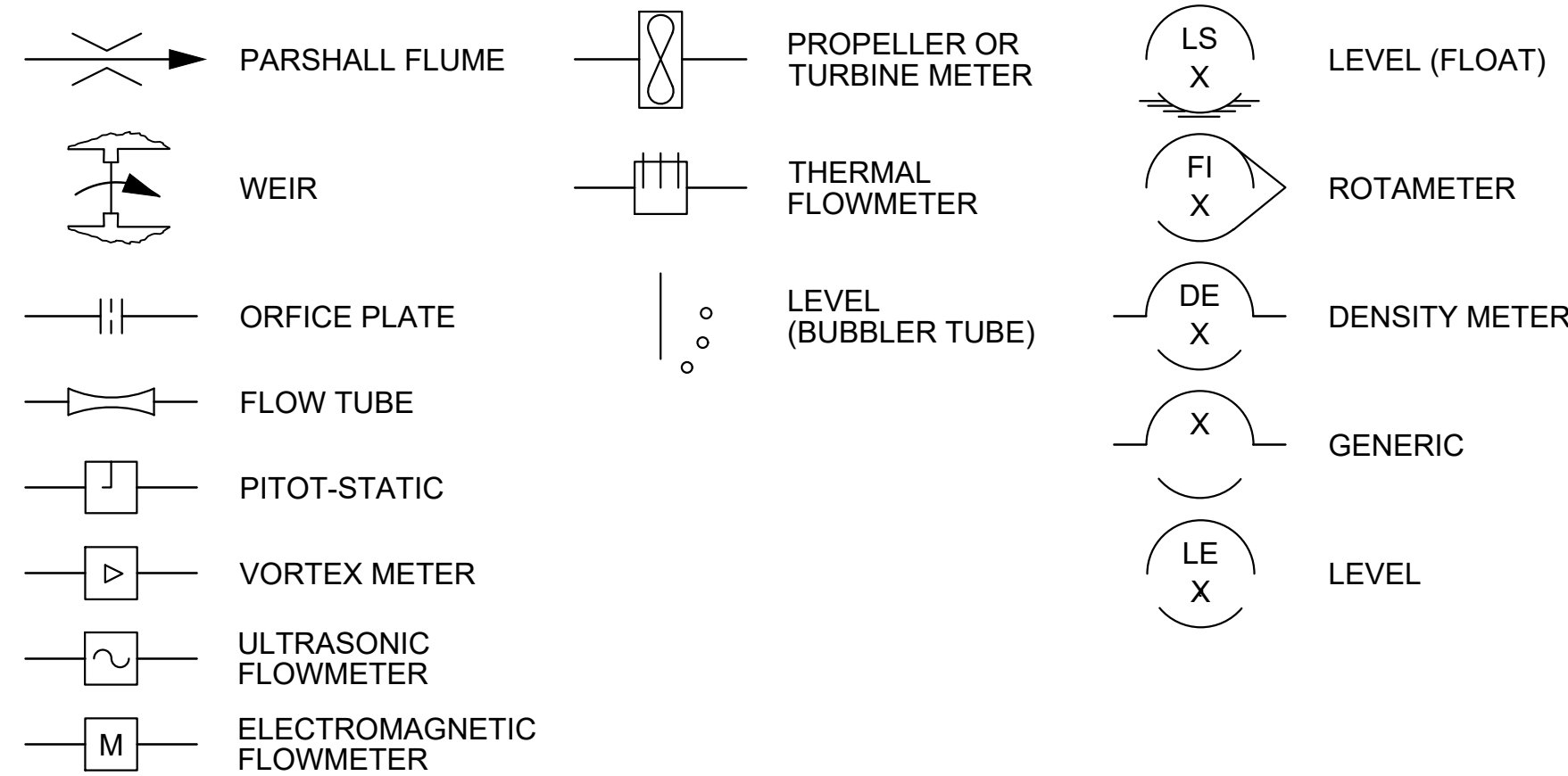
**GATE SYMBOLS**



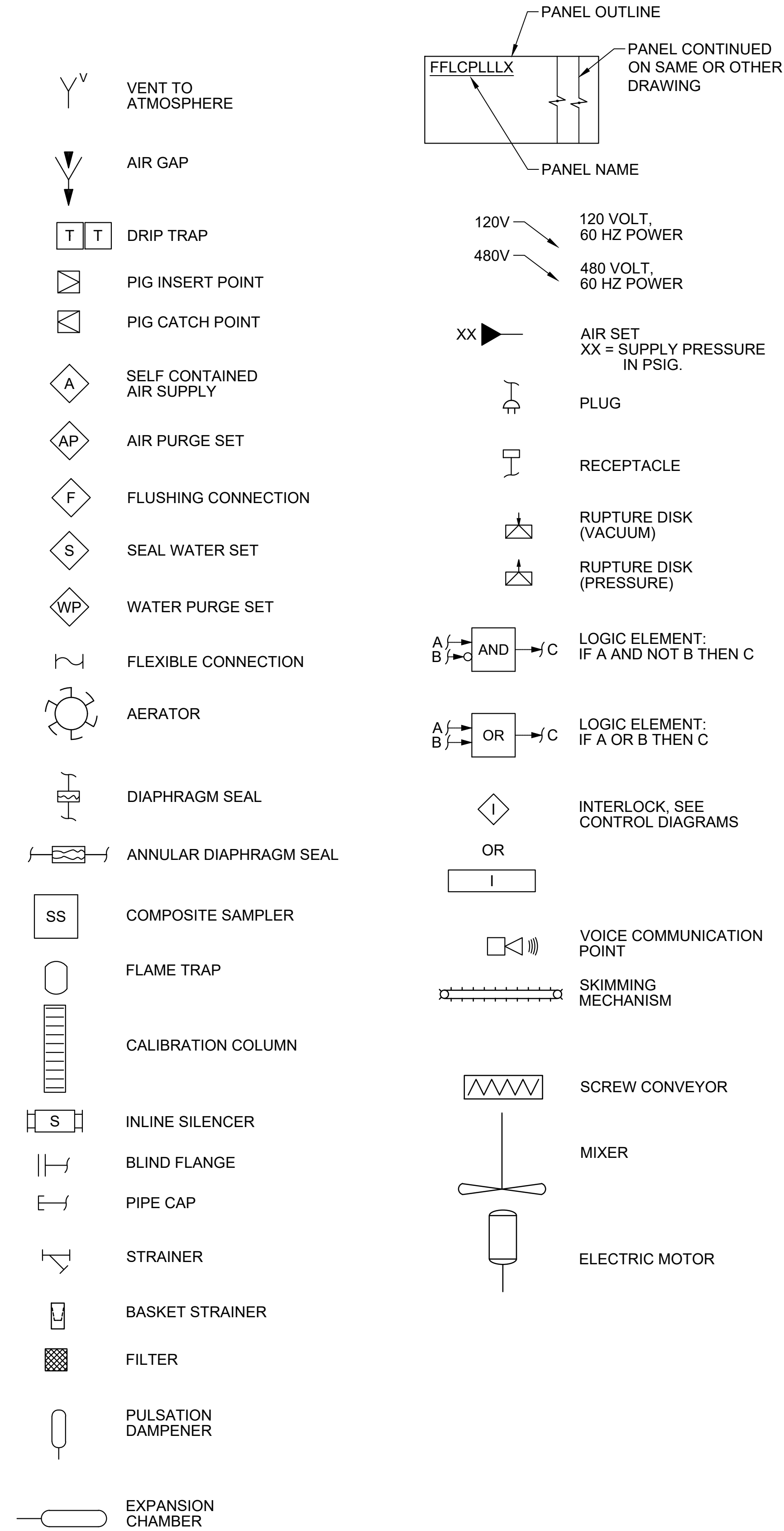
**ACTUATOR SYMBOLS**



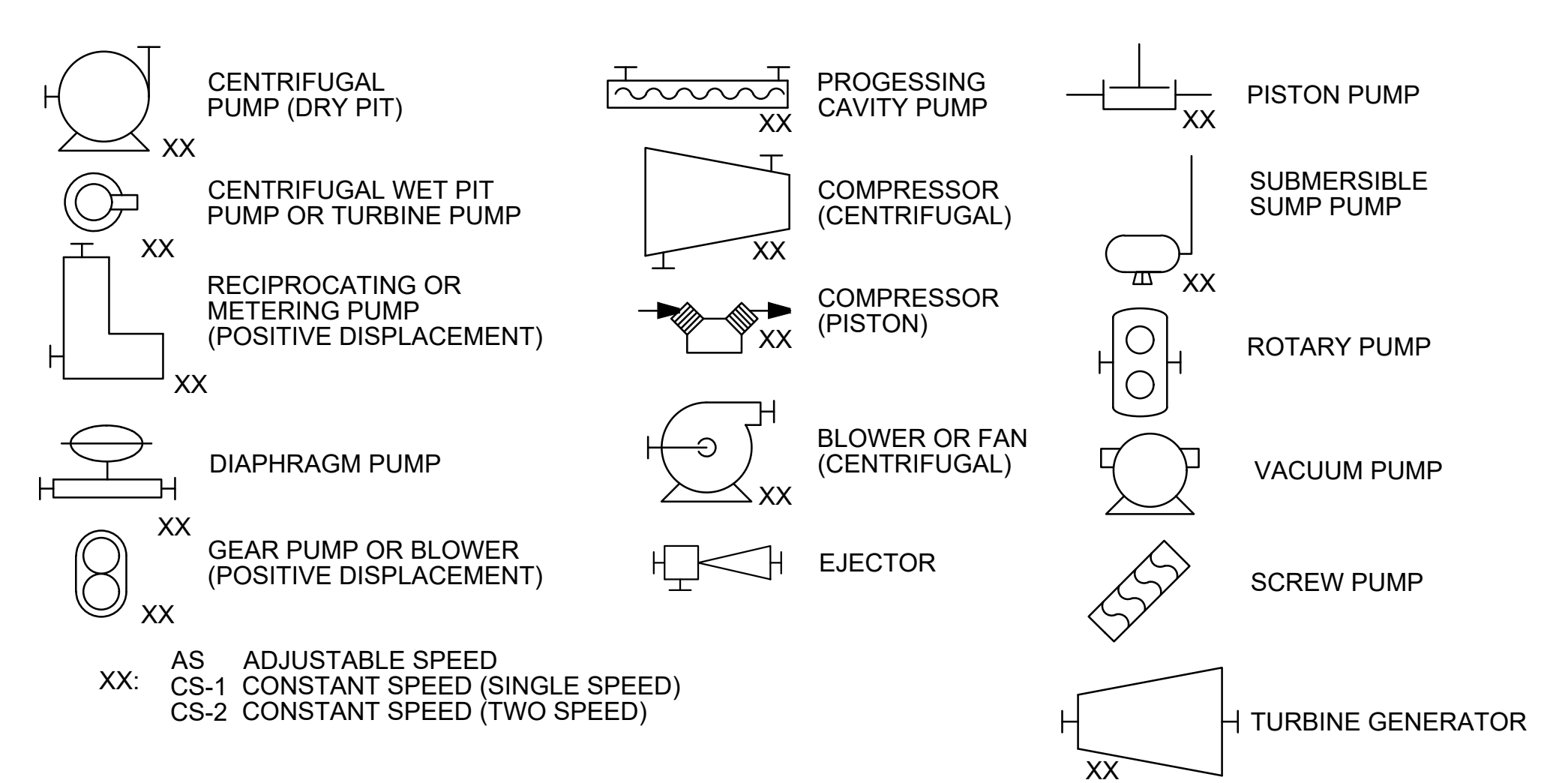
**PRIMARY ELEMENT SYMBOLS**



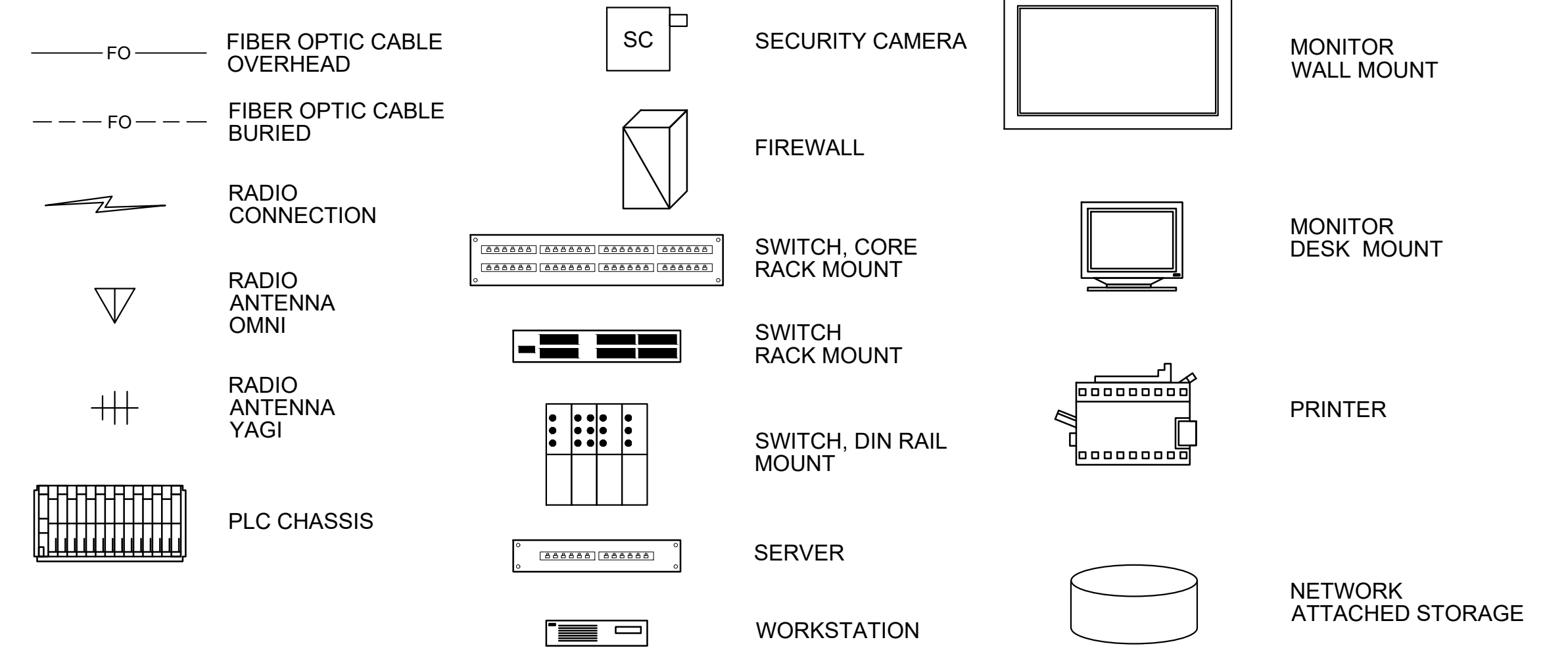
**MISCELLANEOUS SYMBOLS**



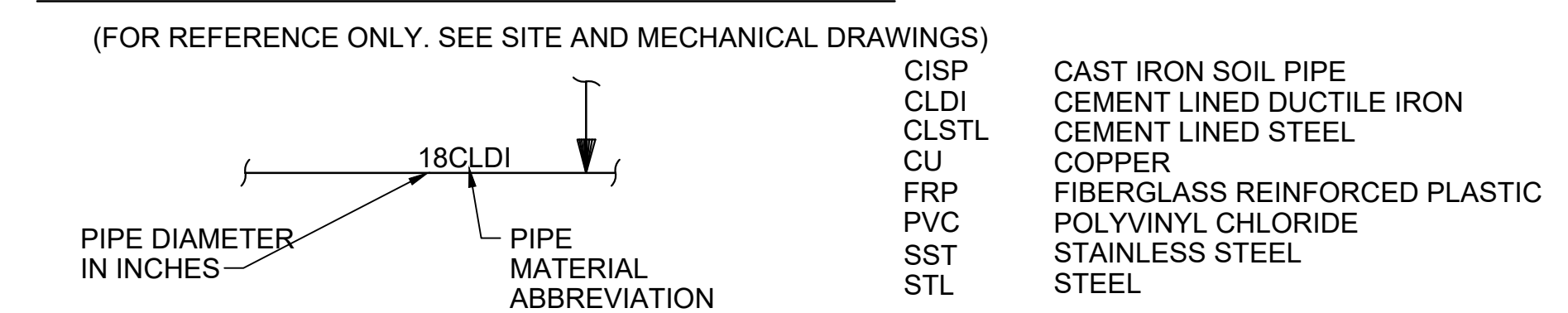
**PUMP AND COMPRESSOR SYMBOLS**



**SCADA COMPONENT SYMBOLS**



**LINE SIZE AND MATERIAL IDENTIFICATION**



**FLOW STREAM IDENTIFICATION**

- AHP HIGH PRESSURE AIR
- BCWD BEARING COOLING WATER DRAIN
- BCWS BEARING COOLING WATER SUPPLY
- CWS COOLING WATER SUPPLY
- CWR COOLING WATER RETURN
- DR DRAIN
- GD GENERATOR DRAIN
- PD PENSTOCK DRAIN
- RW RAW WATER
- SSWD SHAFT SEAL WATER DRAIN
- SSWS SHAFT SEAL WATER SUPPLY
- SW SERVICE WATER

File: C:\pwworking\hdr\_sites\_reservoir\dms01711\MPG-0001-G-0702.dwg  
Plot Date: 8/23/2023 8:47 AM  
Saved By: GARCIAE1

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D. JOHNSON  
DRAWN BY: E. GARCIA  
CHECKED BY: M. JOHNSON  
IN CHARGE: P. RUDE  
DATE: 10-17-2023

**Jacobs**  
2525 AIRPARK DR  
REDDING, CA 96001  
(530) 243-5831

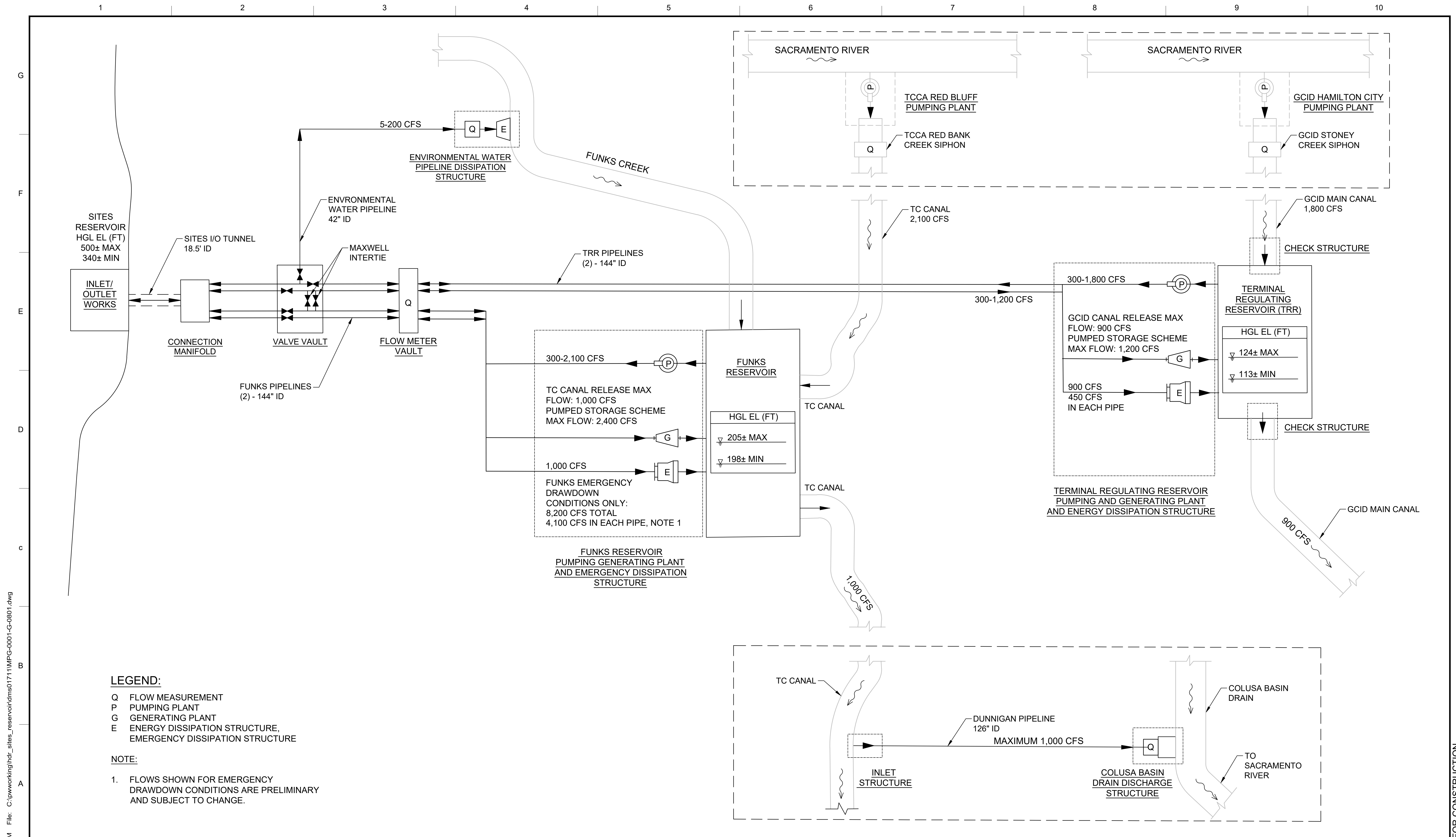
REGISTERED PROFESSIONAL ENGINEER  
DEREK S. JOHNSON  
7671 CALIFORNIA



**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
GENERAL INSTRUMENTATION AND CONTROLS  
LEGEND 2

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
DRAWING NO. MPG-0001-G-0702  
SHT 24 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**LEGEND:**  
 Q FLOW MEASUREMENT  
 P PUMPING PLANT  
 G GENERATING PLANT  
 E ENERGY DISSIPATION STRUCTURE, EMERGENCY DISSIPATION STRUCTURE

**NOTE:**  
 1. FLOWS SHOWN FOR EMERGENCY DRAWDOWN CONDITIONS ARE PRELIMINARY AND SUBJECT TO CHANGE.

Plot Date: 10/12/2023 1:21 PM File: C:\pwworking\hdr\_sites\_reservoir\dms01711\MPG-0001-G-0801.dwg  
 Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: K. PARIS  
 DRAWN BY: R. STEED  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 72287  
 CALIFORNIA

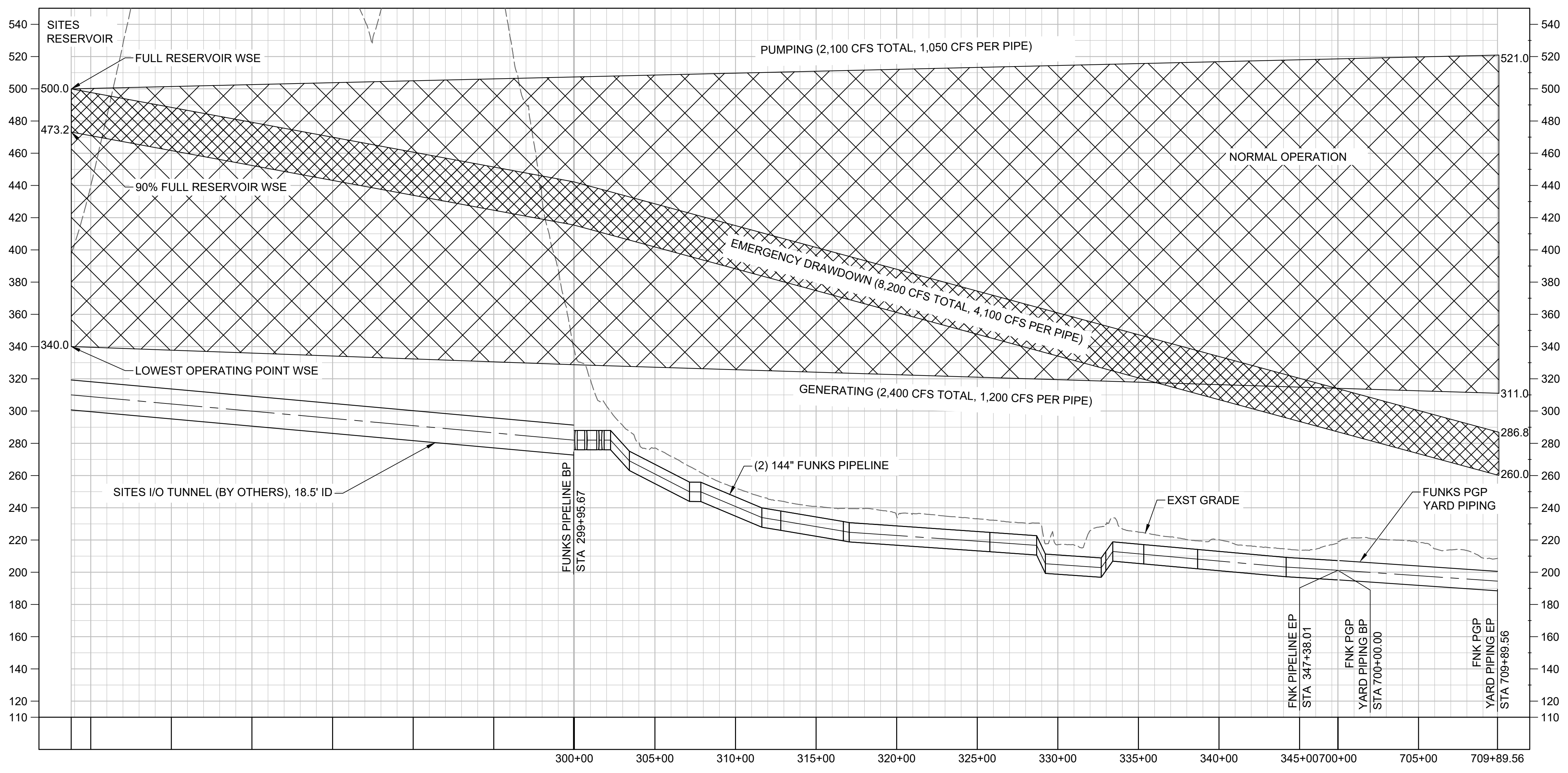


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 PROCESS FLOW DIAGRAM

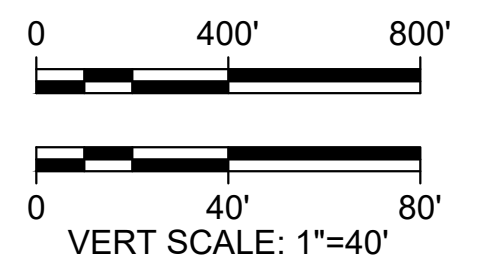
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO. MPG-0001G-0801  
 SHT 25 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES



**PROFILE**  
 HORIZ SCALE: 1" = 400'  
 VERT SCALE: 1" = 40'



**NOTE:**  
 1. HYDRAULIC GRADE LINES SHOWN ARE BASED ON OLD PIPE ROUGHNESS VALUES.

SHEET KEY NOTES

KEY MAP

Plot Date: 10/4/2023 9:24 AM  
 Saved By: HADIDI  
 File: C:\pwworking\hadr\_sitas\_reservoir\dms01711\MPG-0001-G-1001.dwg

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J. BLUM  
 DRAWN BY: E. HADIDI  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



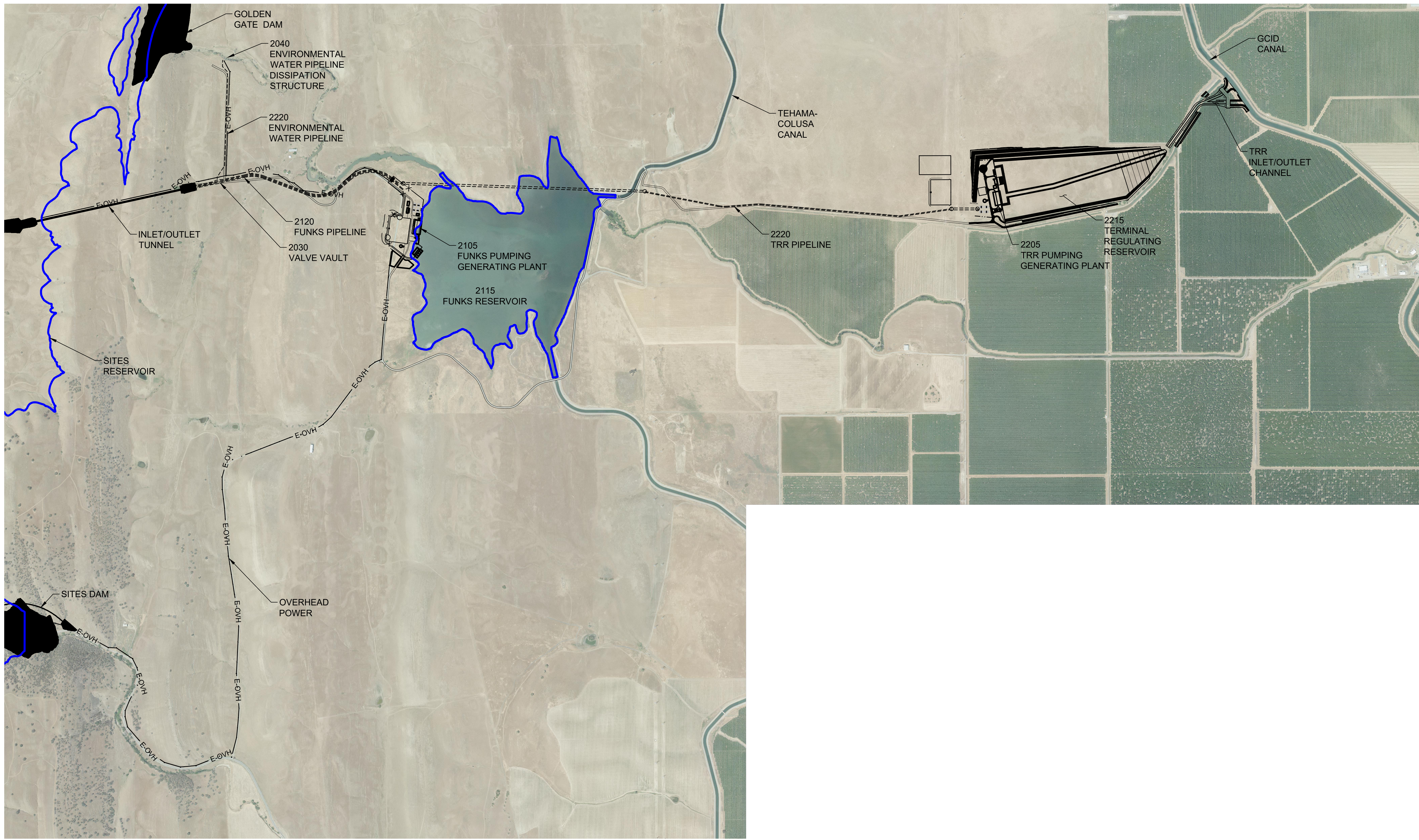
REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 HYDRAULIC PROFILE  
 FUNKS PIPELINE

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-0001-G-1001  
 SHT 26 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL NOTES**

1. AERIAL PHOTOGRAPHY WAS FLOWN ON MAY 13 AND 14, 2022 BY GEOTERRA, INC. AND WAS DELIVERED TO JACOBS IN SEPTEMBER 2022.
2. MAPPING WAS COMPILED BY R.E.Y. ENGINEERS, INC. FROM AERIAL LIDAR DATA, COLLECTED BY GEOTERRA, INC. ON FEBRUARY 8 AND 9, 2022, AND SUPPLEMENTAL GROUND SURVEY AND BATHYMETRY PERFORMED BY R.E.Y ENGINEERS.
3. HORIZONTAL DATUM: 2011 REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83(2011)), EPOCH 2017.50. MAPPING PROJECTION IS US STATE PLANES COORDINATES, CALIFORNIA ZONE 2, SURVEY FEET.
4. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID18.
5. SOURCE OF BATHYMETRY IN FUNKS RESERVOIR: R.E.Y. ENGINEERS, INC CONDUCTED THE BATHYMETRIC SURVEY IN SEPTEMBER OF 2020. DATA COLLECTION WAS BY EXTENDED RANGE-POLE WITH GPS RTK ROVER FROM A RAFT. DENSE VEGETATION IN THE RESERVOIR PREVENTED USE OF SONAR.
6. CONTOUR INTERVAL IS 1 FOOT UNLESS OTHERWISE SHOWN
7. SITES PROJECT JOINT POWERS AUTHORITY GPS CONTROL NETWORK ESTABLISHED IN JANUARY 2023 RECORD OF SURVEY IS RECORDED WITH COLUSA COUNTY RECORDS, DOCUMENT NUMBER 2023-0001608 AND WAS FILED JUNE 27, 2023..

**PLAN**  
HORIZ SCALE: 1" = 1000'



Plot Date: 10/13/2023 8:46 AM File: C:\pwworking\hdr\_sites\_reservoir\dms01741\MPG-0045-C-2001.dwg Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B. CHELONIS
DRAWN BY:	B. CHELONIS
CHECKED BY:	W. OHLIN
IN CHARGE:	P. RUDE
DATE:	10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
BECKY K CHELONIS  
C 59851  
CALIFORNIA

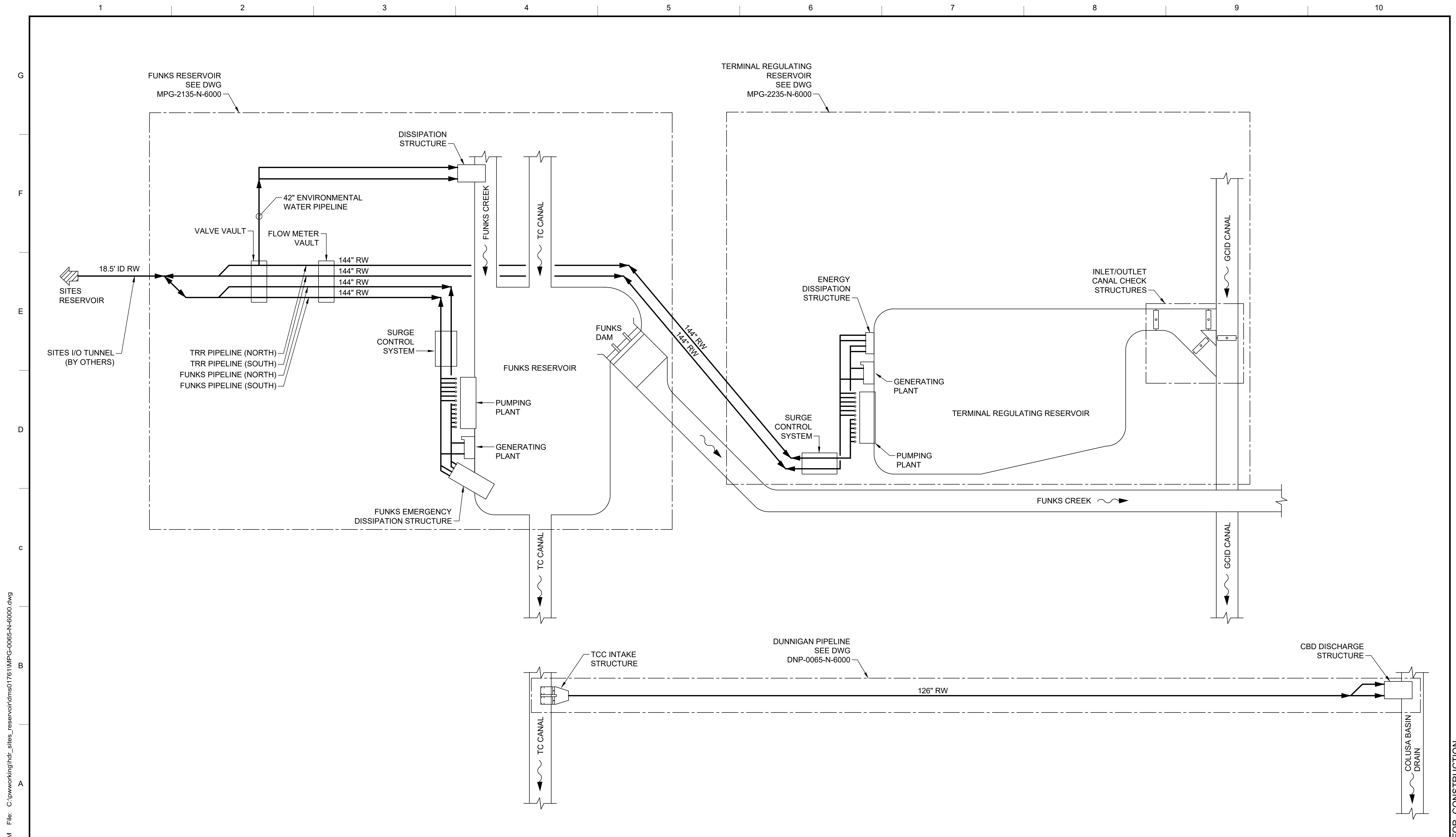


**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
CIVIL  
OVERALL LOCATION  
AND SURVEY CONTROL  
PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS 0 1000 2000 1"
DRAWING NO. MPG-0045-C-2001 SHT 27 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





Plot Date: 10/6/2023 11:22 AM  
 Saved By: DJOHNS15  
 File: C:\pwworking\hdr\_sites\_reservoir\dms01761\MPG-0065-N-6000.dwg

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D. JOHNSON  
 DRAWN BY: E. GARCIA  
 CHECKED BY: J. HISE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER  
 DEREK S JOHNSON  
 CS 7671  
 CALIFORNIA

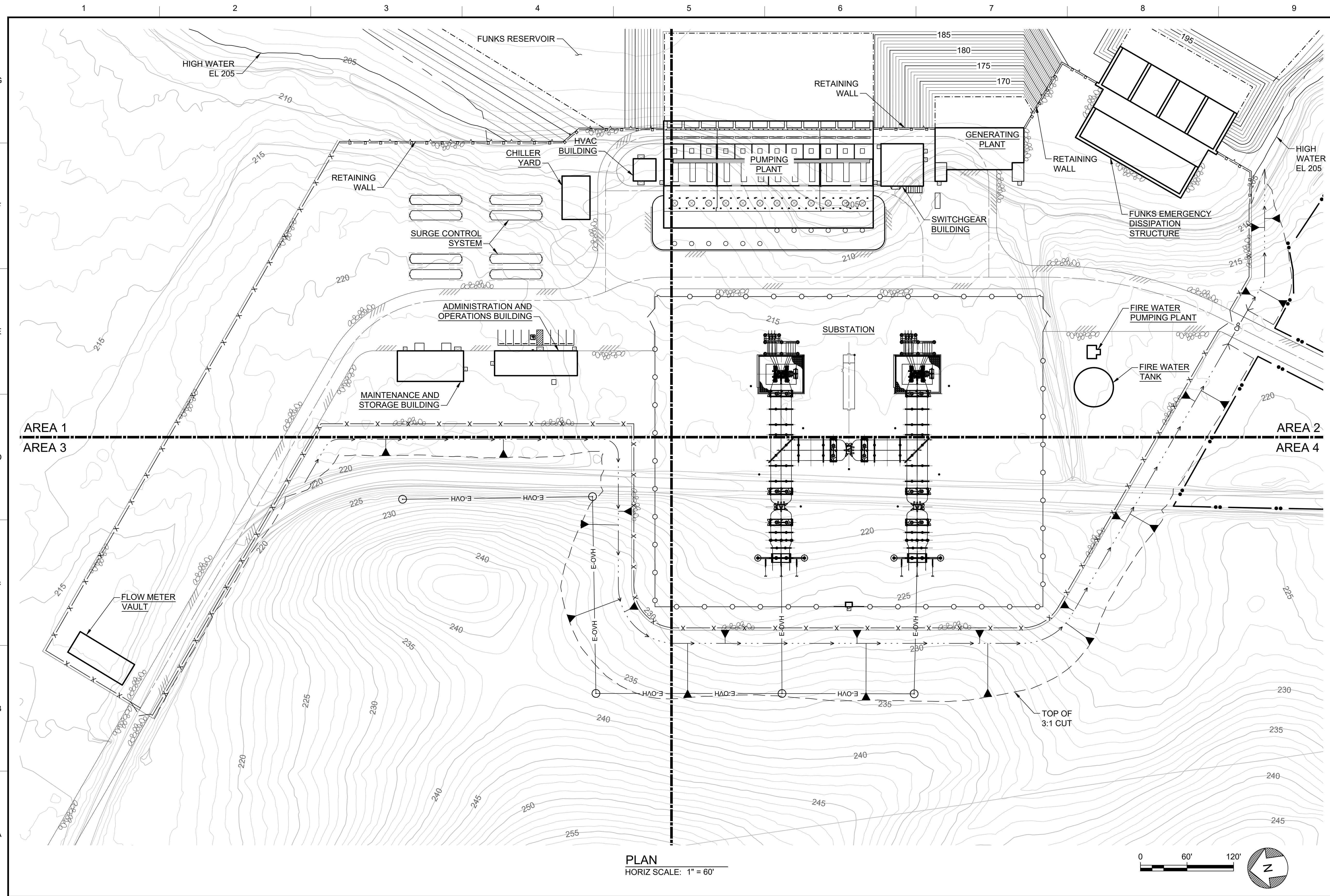


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 INSTRUMENTATION AND CONTROLS  
 OVERALL PROGRAM  
 P&ID

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO.  
 MPG-0065-N-6000  
 SHT 28 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

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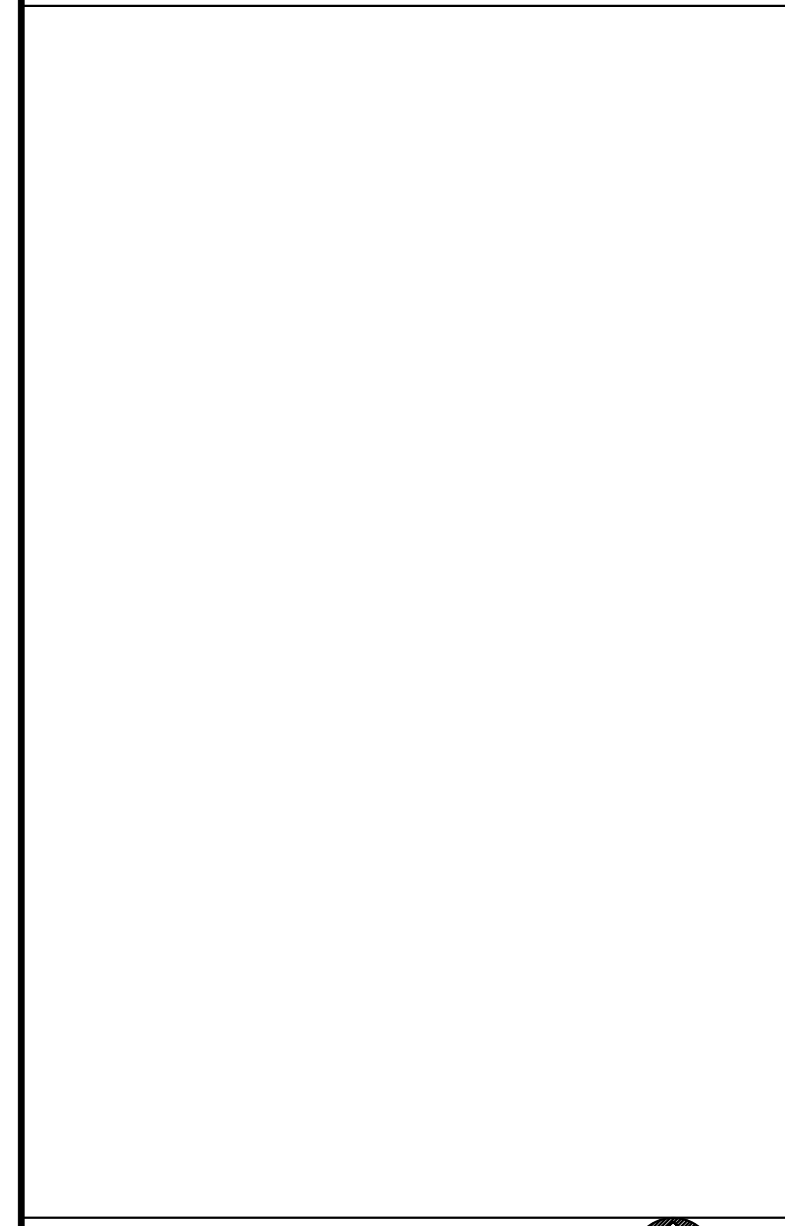
**PLAN**  
 HORIZ SCALE: 1" = 60'



**GENERAL NOTES**

- FACILITY DRAWINGS ARE AS NOTED BELOW:
  - SUBSTATION: MPG-2130-E-2001
  - ADMIN & OPERATIONS BUILDING: MPG-2145-S-2001
  - MAINTENANCE & STORAGE BUILDING: MPG-2150-S-2001
  - PUMPING PLANT: MPG-2155-S-2100
  - SWITCHGEAR BUILDING: MPG-2160-S-2001
  - GENERATING PLANT: MPG-2165-S-2001
  - CHILLER YARD: MPG-2170-H-2001
  - HVAC BUILDING: MPG-2171-S-2001
  - FUNKS EMERGENCY DISSIPATION STRUCTURE: MPG-2175-S-2001
  - FIRE WATER TANK: MPG-2180-S-2001
  - FIRE WATER PUMPING PLANT: MPG-2181-S-2001
  - SWITCHGEAR SYSTEM: MPG-2185-S-2001
  - FLOW METER VAULT: MPG-2190-S-2201

**SHEET KEY NOTES**



**KEY MAP**

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B. CHELONIS  
 DRAWN BY: B. CHELONIS  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 243-5831

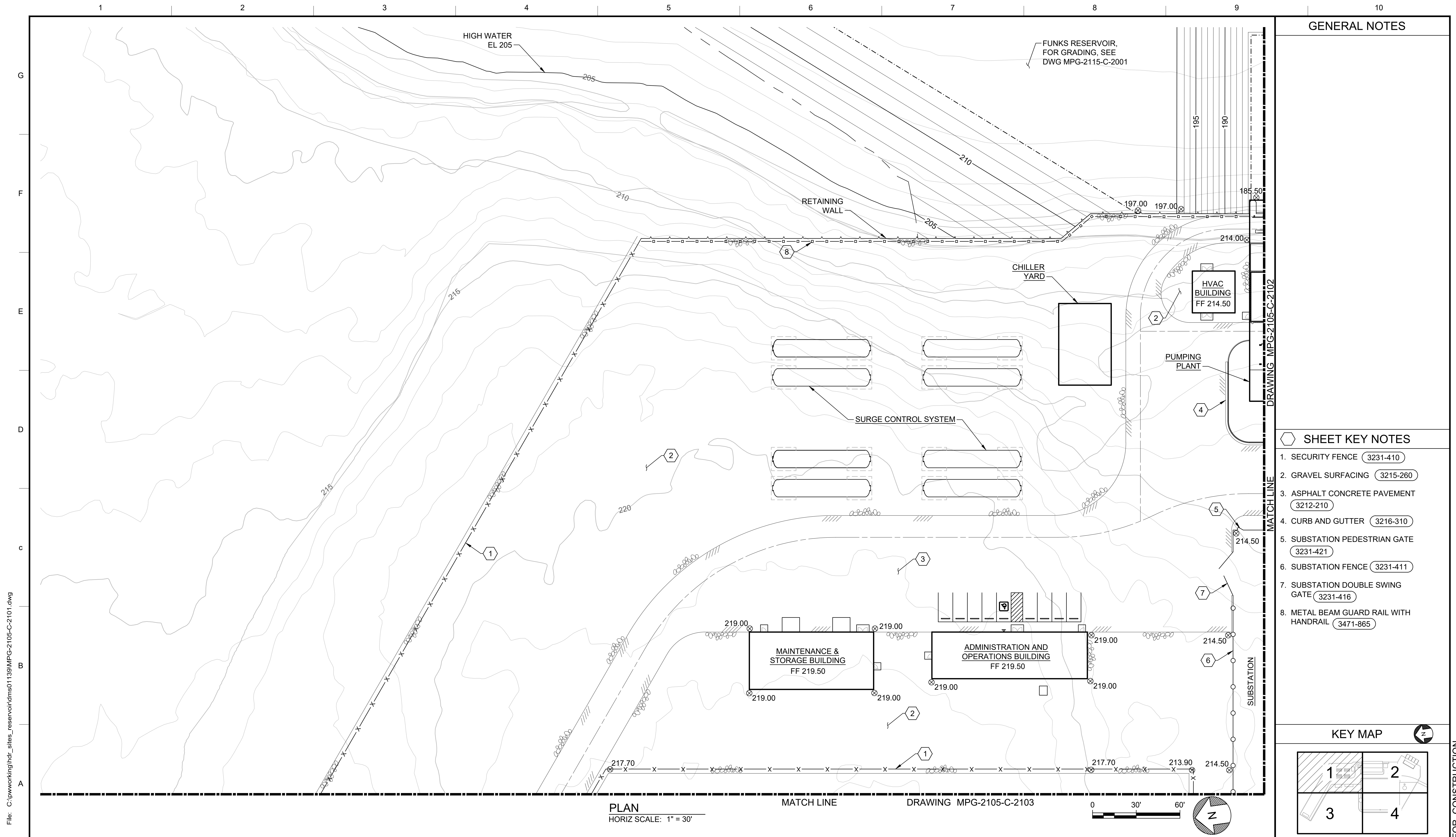
REGISTERED PROFESSIONAL ENGINEER  
 BECKY K CHELONIS  
 C 59851  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING CIVIL  
 FUNKS RESERVOIR  
 PUMPING AND GENERATING PLANT  
 OVERALL SITE PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1" 1"  
 DRAWING NO.  
 MPG-2105-C-2001  
 SHT 29 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

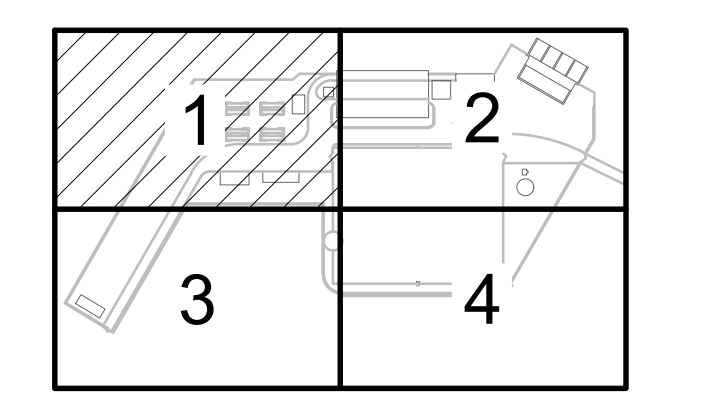


**GENERAL NOTES**

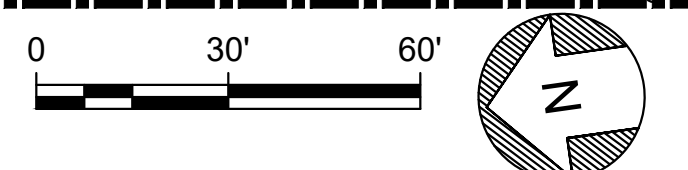
**SHEET KEY NOTES**

1. SECURITY FENCE (3231-410)
2. GRAVEL SURFACING (3215-260)
3. ASPHALT CONCRETE PAVEMENT (3212-210)
4. CURB AND GUTTER (3216-310)
5. SUBSTATION PEDESTRIAN GATE (3231-421)
6. SUBSTATION FENCE (3231-411)
7. SUBSTATION DOUBLE SWING GATE (3231-416)
8. METAL BEAM GUARD RAIL WITH HANDRAIL (3471-865)

**KEY MAP**



**PLAN**  
HORIZ SCALE: 1" = 30'



Plot Date: 10/06/2023 2:28 PM  
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REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY:  
B. CHELONIS  
 DRAWN BY:  
B. CHELONIS  
 CHECKED BY:  
W. OHLIN  
 IN CHARGE:  
P. RUDE  
 DATE:  
10-17-2023



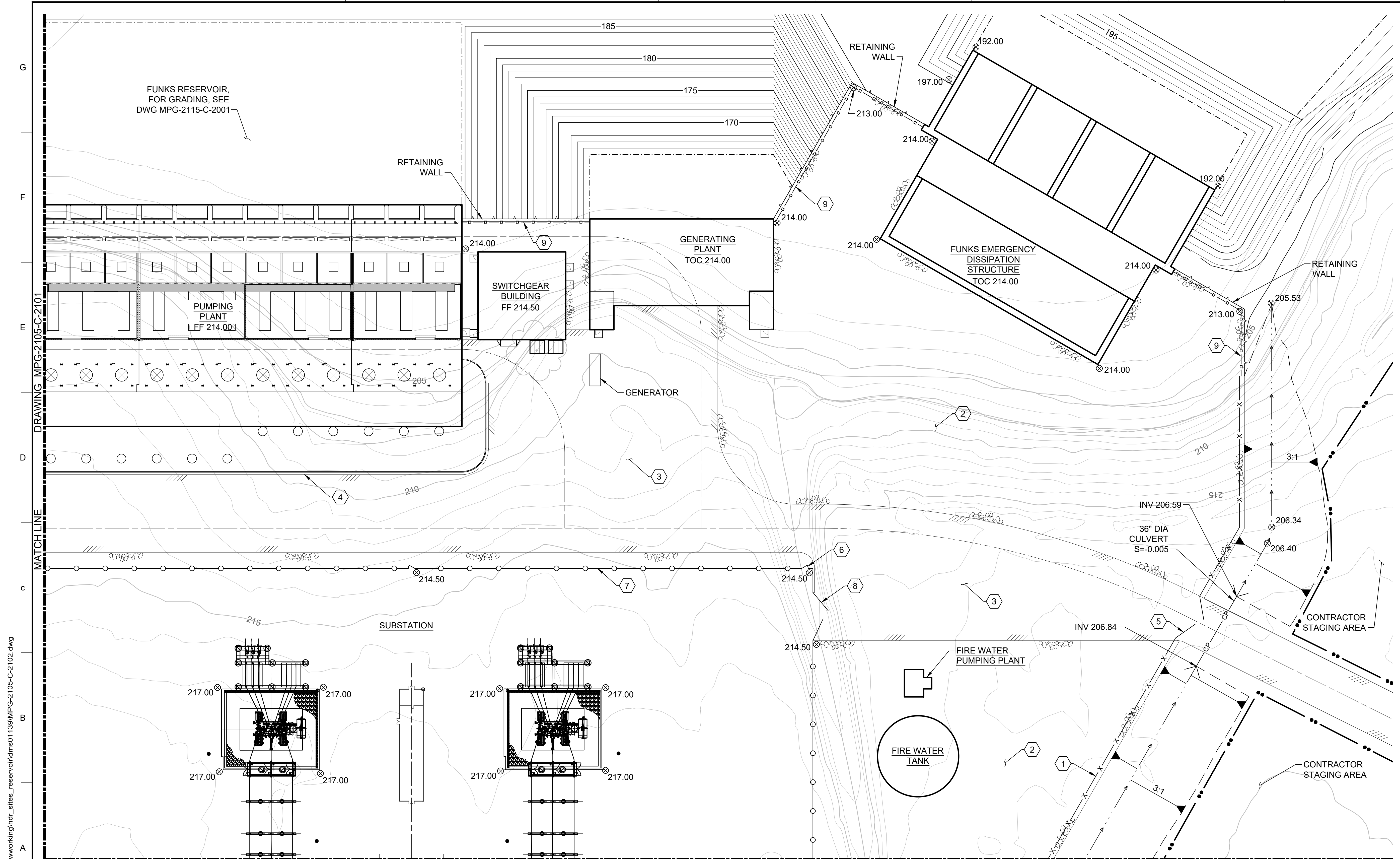
REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 BECKY K CHELONIS  
 C 59851  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 CIVIL  
 FUNKS RESERVOIR  
 PUMPING AND GENERATING PLANT  
 SITE PLAN - AREA 1

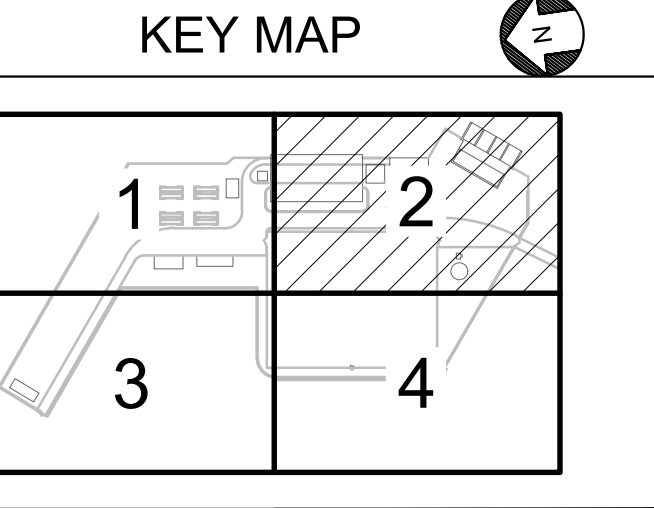
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
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 DRAWING NO.  
 MPG-2105-C-2101  
 SHT 30 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

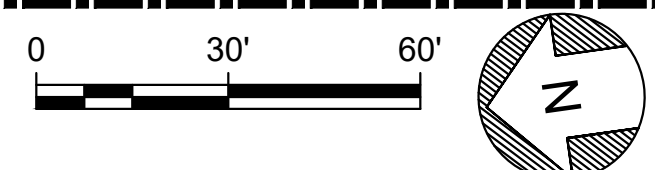


**GENERAL NOTES**

- SHEET KEY NOTES**
1. SECURITY FENCE (3231-410)
  2. GRAVEL SURFACING (3215-260)
  3. ASPHALT CONCRETE PAVEMENT (3212-210)
  4. CURB AND GUTTER (3216-310)
  5. DOUBLE SWING GATE (3231-415)
  6. SUBSTATION PEDESTRIAN GATE (3231-421)
  7. SUBSTATION FENCE (3231-411)
  8. SUBSTATION DOUBLE SWING GATE (3231-416)
  9. METAL BEAM GUARD RAIL WITH HANDRAIL (3471-865)



**PLAN**  
HORIZ SCALE: 1" = 30'



Plot Date: 10/06/2023 3:11 PM  
 Saved By: BCHELONI  
 File: C:\pwworking\hdr\_sites\_reservoir\dmso1139\MPG-2105-C-2102.dwg

DESIGNED BY:	B. CHELONIS
DRAWN BY:	B. CHELONIS
CHECKED BY:	W. OHLIN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER  
 BECKY K CHELONIS  
 C 59851  
 CALIFORNIA

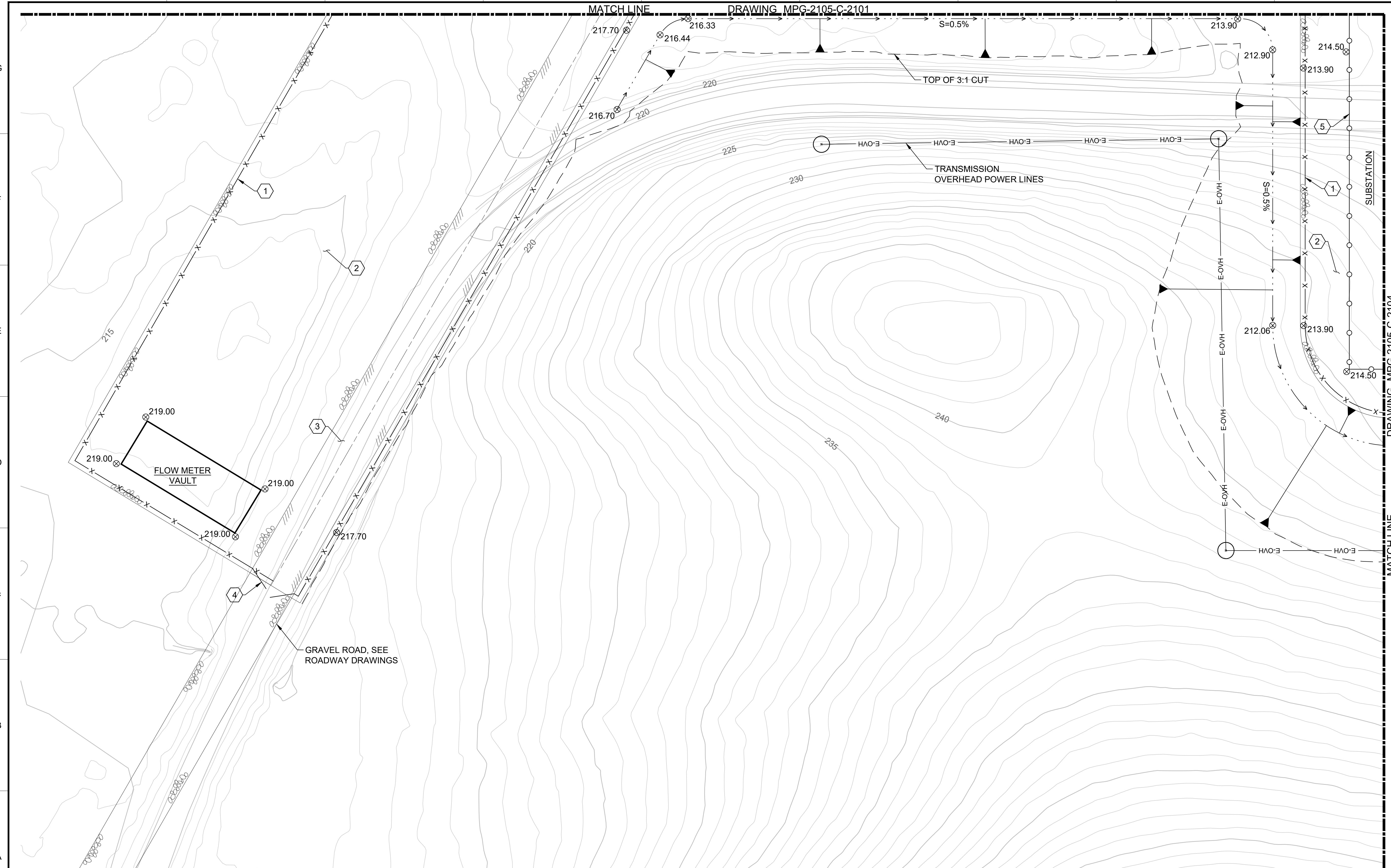


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING CIVIL  
 FUNKS RESERVOIR PUMPING AND GENERATING PLANT  
 SITE PLAN - AREA 2

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO.  
 MPG-2105-C-2102  
 SHT 31 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

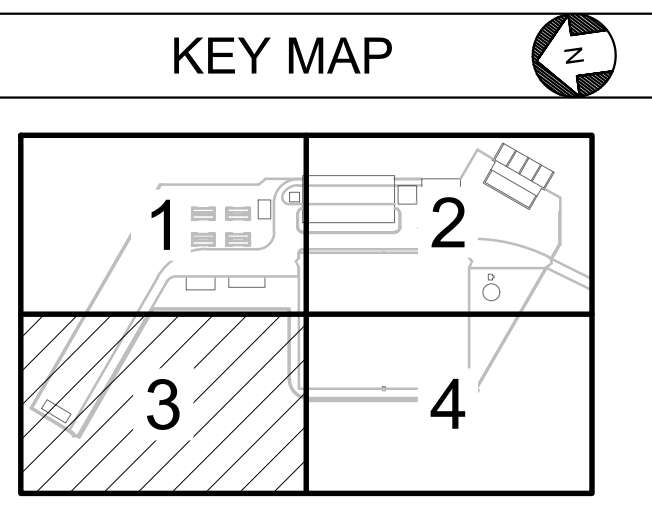
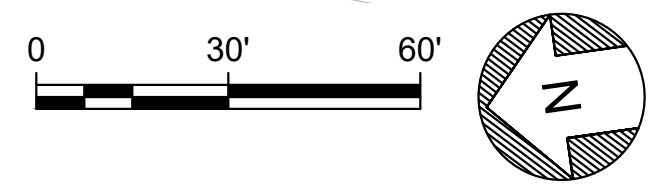
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**GENERAL NOTES**

- SHEET KEY NOTES**
1. SECURITY FENCE (3231-410)
  2. GRAVEL SURFACING (3215-260)
  3. ASPHALT CONCRETE PAVEMENT (3212-210)
  4. DOUBLE SWING GATE (3231-415)
  5. SUBSTATION FENCE (3231-411)

**PLAN**  
HORIZ SCALE: 1" = 30'



REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B. CHELONIS  
 DRAWN BY: B. CHELONIS  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



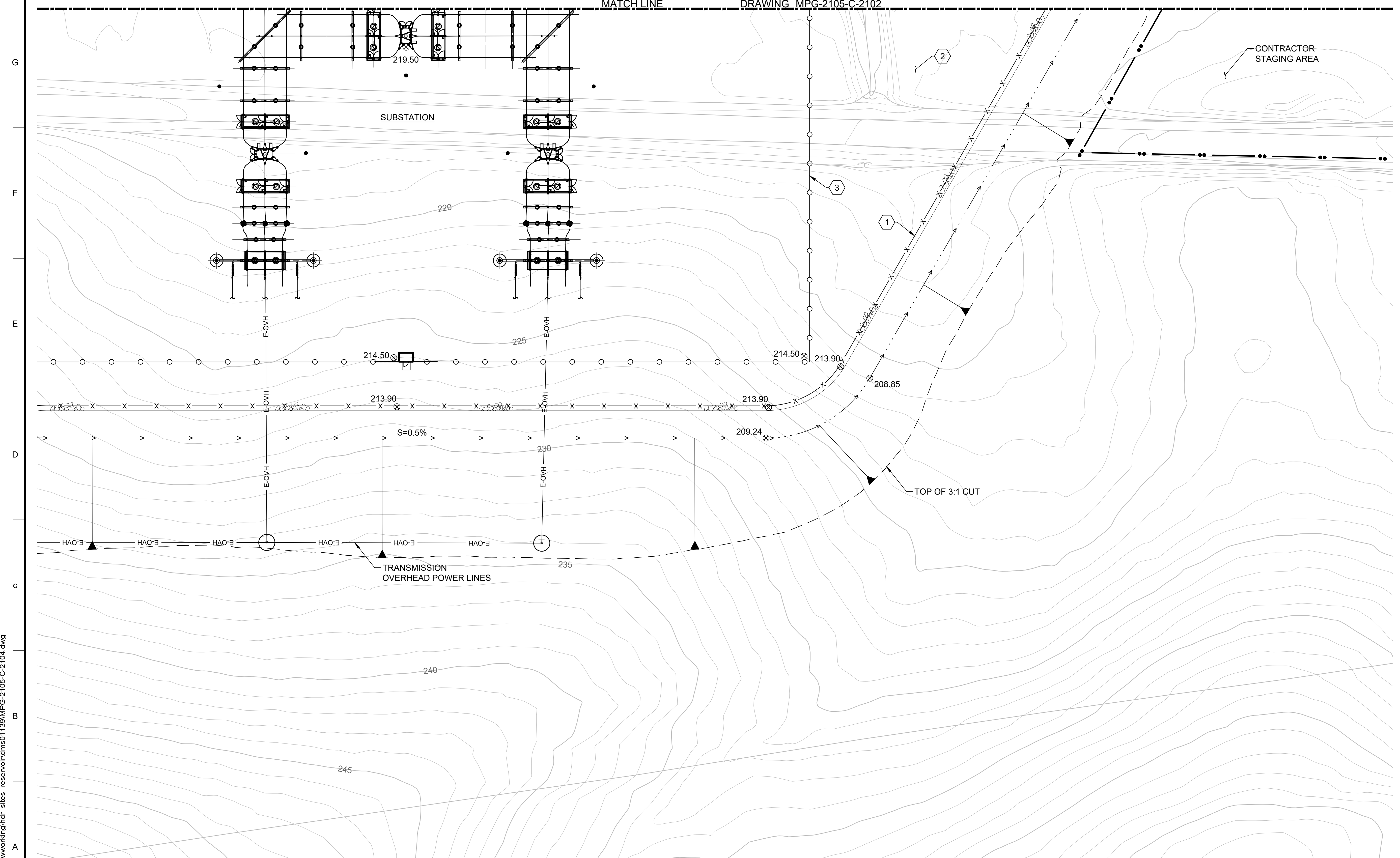
REGISTERED PROFESSIONAL ENGINEER  
 BECKY K CHELONIS  
 C 59851  
 CALIFORNIA



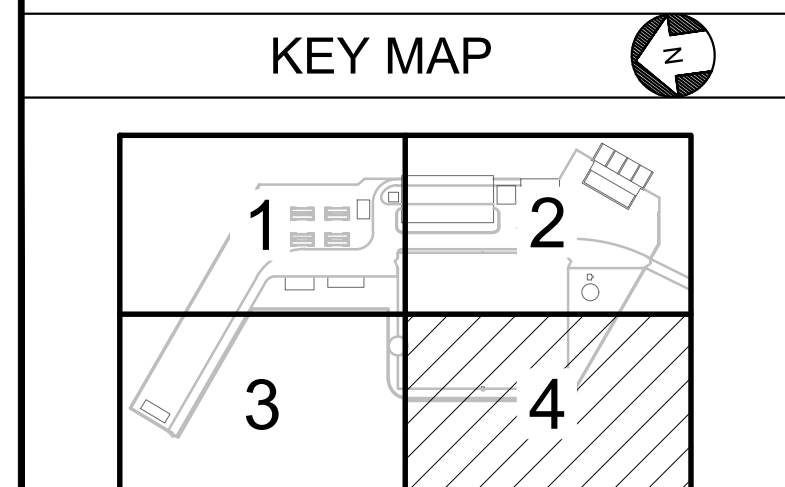
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING CIVIL  
 FUNKS RESERVOIR PUMPING AND GENERATING PLANT  
 SITE PLAN - AREA 3

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1" 1"  
 DRAWING NO. MPG-2105-C-2103  
 SHT 32 OF 176

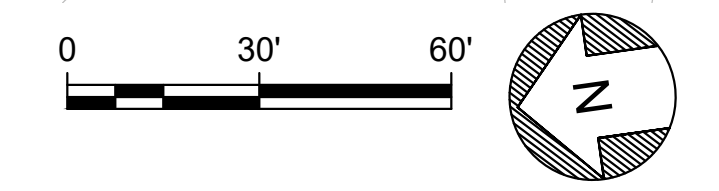
PRELIMINARY - NOT FOR CONSTRUCTION



- SHEET KEY NOTES**
1. SECURITY FENCE (3231-410)
  2. GRAVEL SURFACING (3215-260)
  3. SUBSTATION FENCE (3231-411)



**PLAN**  
HORIZ SCALE: 1" = 30'



File: C:\pwworking\hdr\_sites\_reservoir\dms01139\MPG-2105-C-2104.dwg  
Plot Date: 10/6/2023 4:34 PM  
Saved By: BCHELONI

DESIGNED BY:	B. CHELONIS
DRAWN BY:	B. CHELONIS
CHECKED BY:	W. OHLIN
IN CHARGE:	P. RUDE
DATE:	10-17-2023

**Jacobs**  
2525 AIRPARK DR  
REDDING, CA 96001  
(530) 243-5831

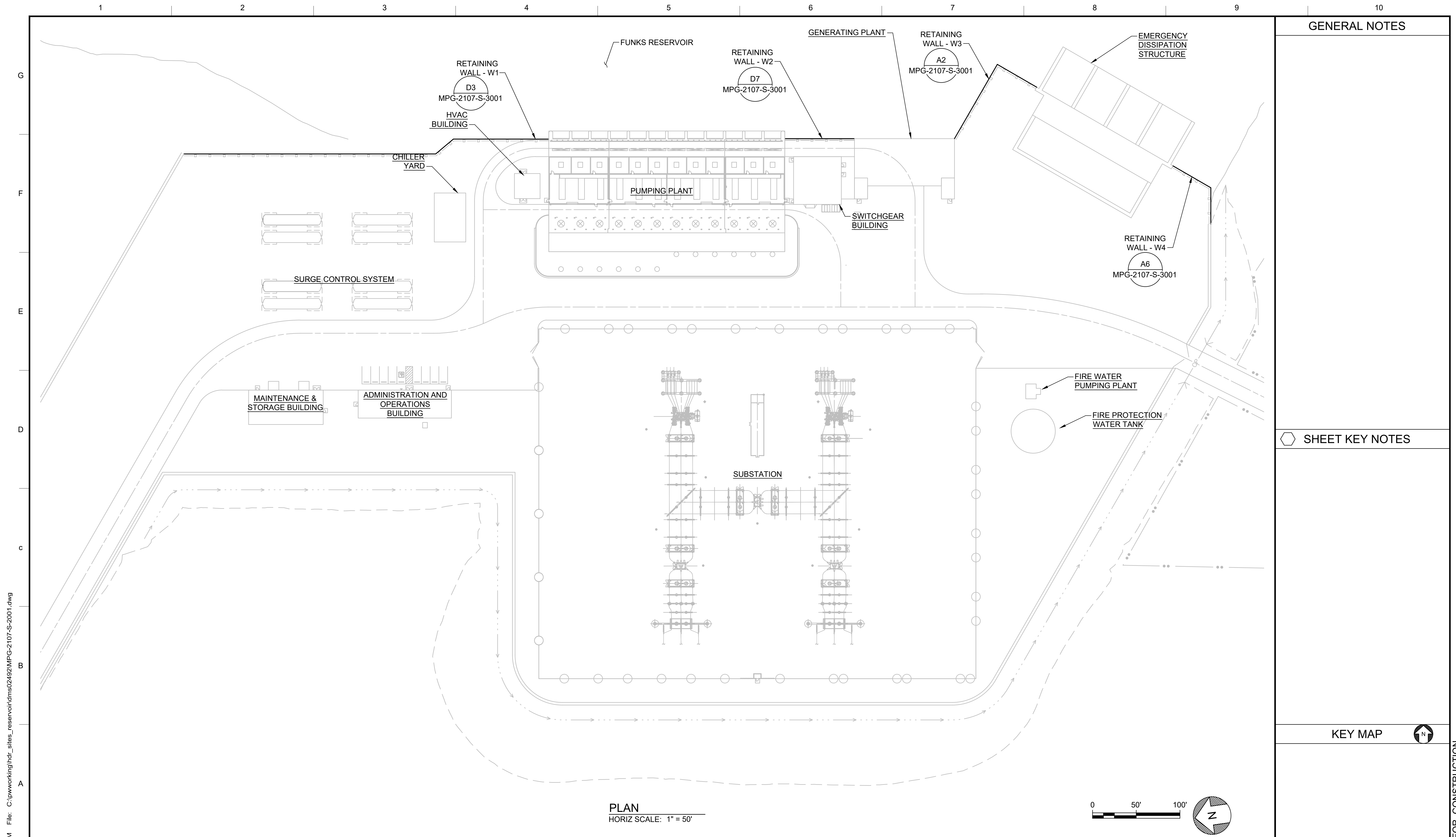
REGISTERED  
PROFESSIONAL  
ENGINEER  
BECKY K CHELONIS  
C 59851  
CALIFORNIA



**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
CIVIL  
FUNKS RESERVOIR  
PUMPING AND GENERATING PLANT  
SITE PLAN - AREA 4

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL  
DRAWING. ADJUST SCALES FOR  
REDUCED PLOTS  
0 1"  
DRAWING NO.  
MPG-2105-C-2104  
SHT 33 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



PLAN  
HORIZ SCALE: 1" = 50'

GENERAL NOTES

SHEET KEY NOTES

KEY MAP 

Plot Date: 10/16/2023 9:50 AM File: C:\pwworking\hdr\_sites\_reservoir\dms02492\MPG-2107-S-2001.dwg Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: T. VESCO  
 DRAWN BY: T. OLIWA  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY D VESCO  
 60219 CALIFORNIA



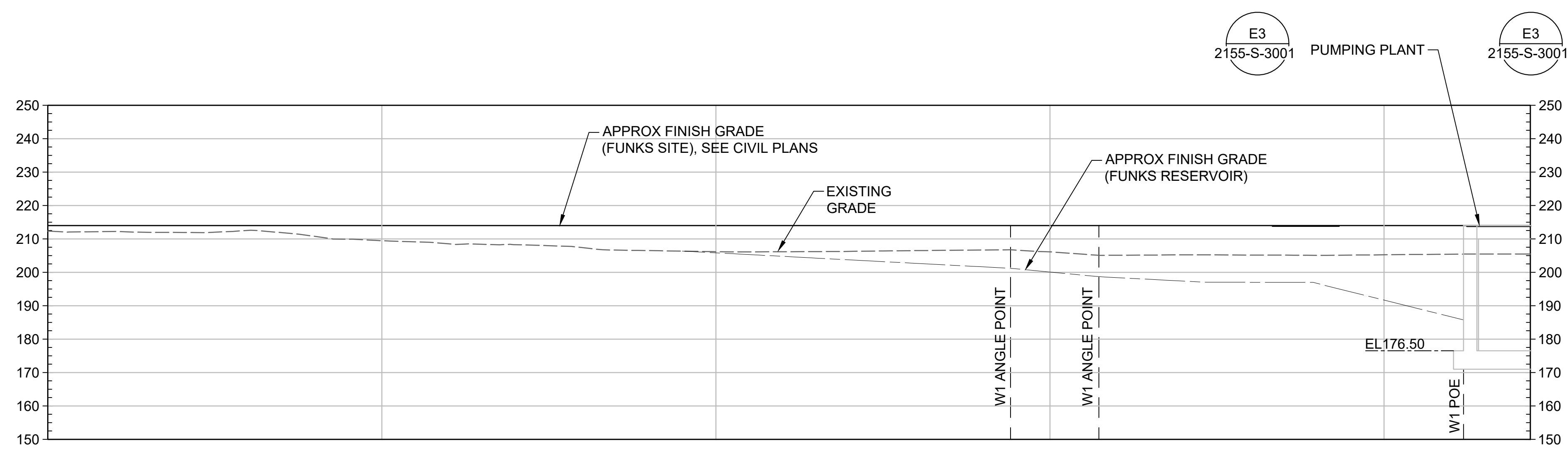
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING AND GENERATING PLANT  
 RETAINING WALL - OVERALL PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO.  
 MPG-2107-S-2001  
 SHT 34 OF 176

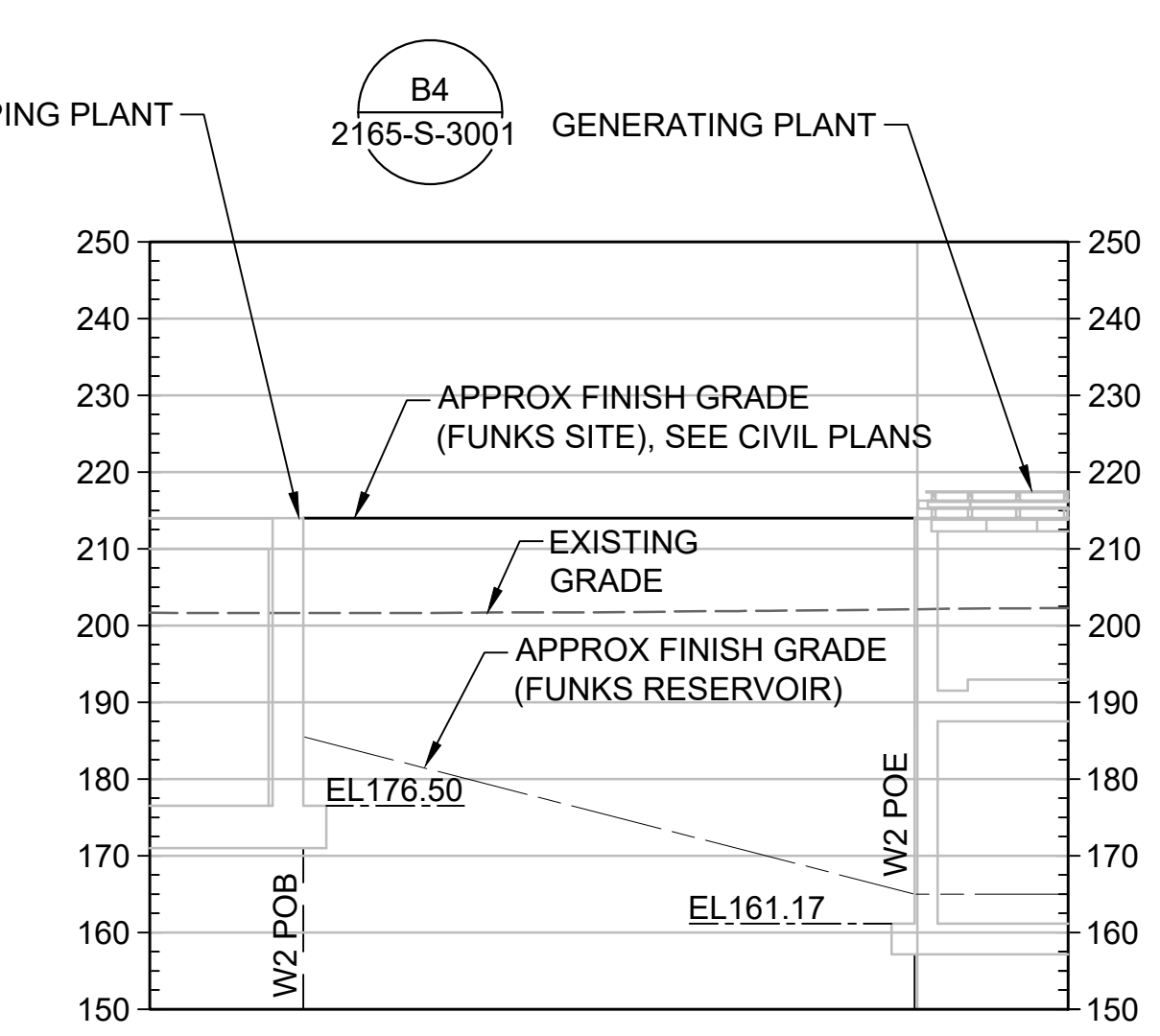
PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

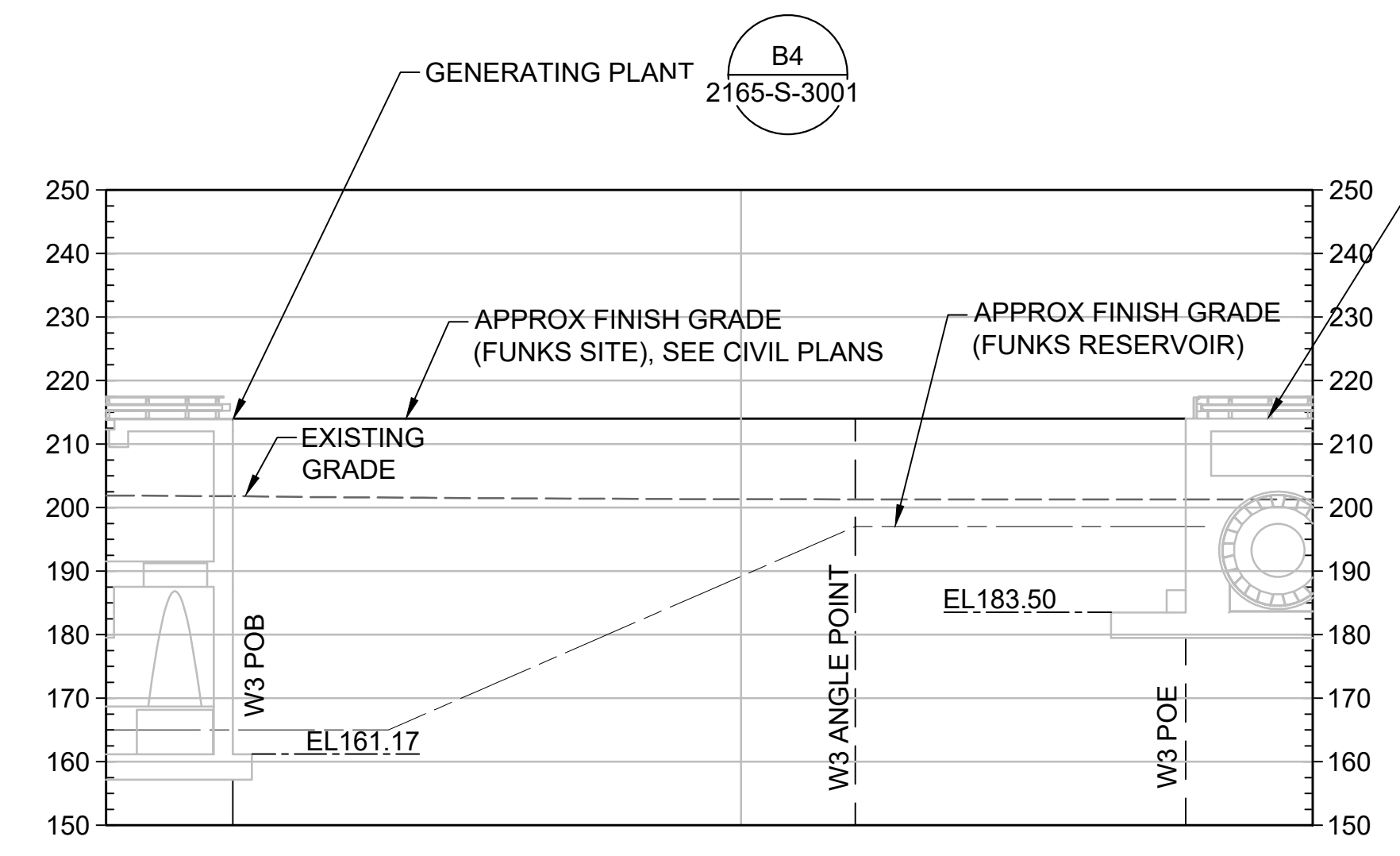
1. XXX



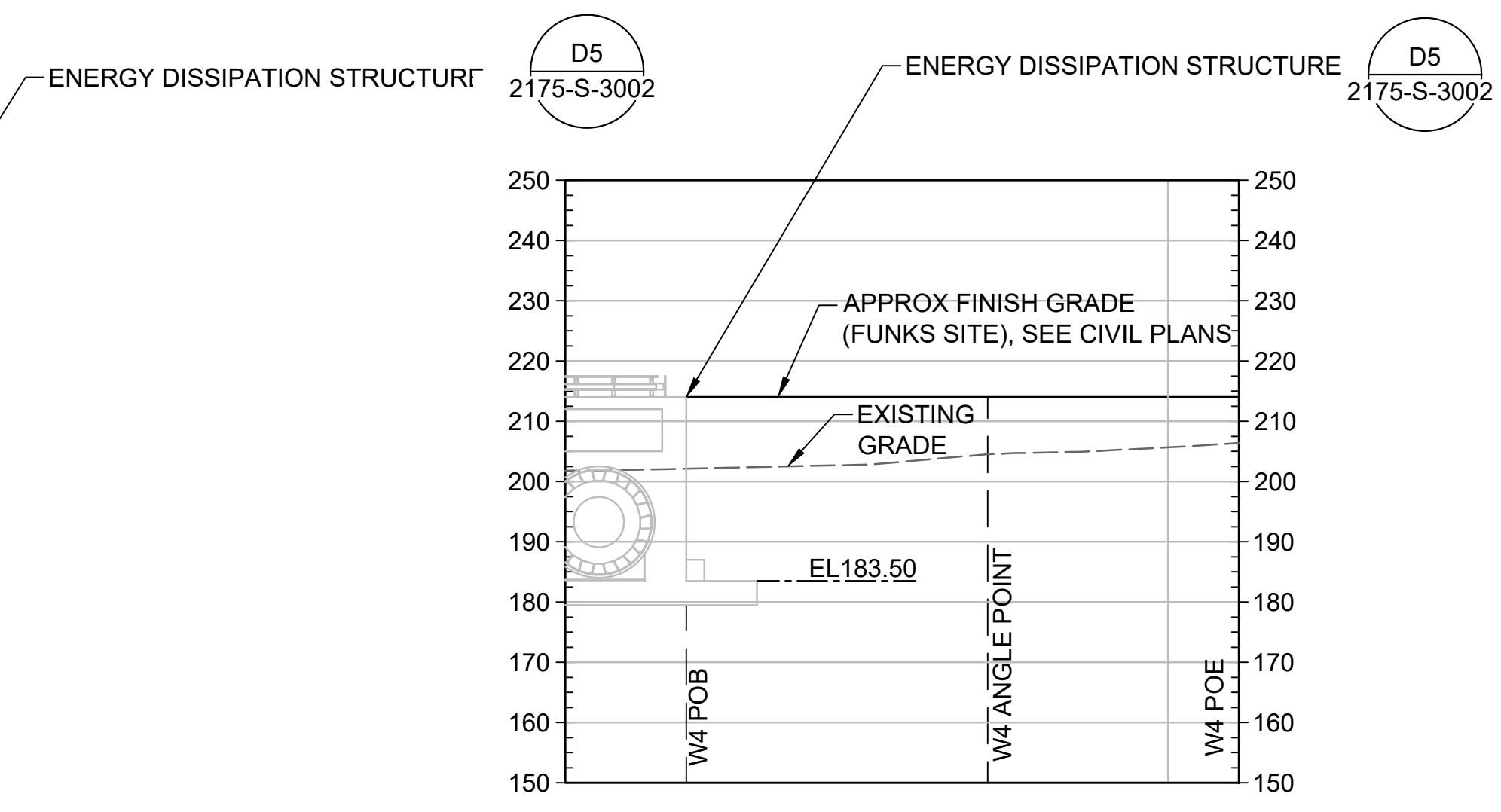
**D3 ELEVATION - RETAINING WALL - W1**  
1/2"=1'-0"  
MPG-2107-S-2001



**D7 ELEVATION - RETAINING WALL - W2**  
1/2"=1'-0"  
MPG-2107-S-2001



**A2 ELEVATION - RETAINING WALL - W3**  
1/2"=1'-0"  
MPG-2107-S-2001

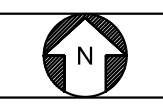


**A6 ELEVATION - RETAINING WALL - W4**  
1/2"=1'-0"  
MPG-2107-S-2001

**SHEET KEY NOTES**

1. XXX

**KEY MAP**



Plot Date: 10/13/2023 9:20 AM File: C:\pwworking\hdr\_sites\_reservoir\dms02492\MPG-2107-S-3001.dwg Saved By: OLIWA

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: T. VESCO  
 DRAWN BY: T. OLIWA  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY D VESCO  
 60219 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING AND GENERATING PLANT  
 RETAINING WALL ELEVATIONS

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2107-S-3001  
 SHT 35 OF 176

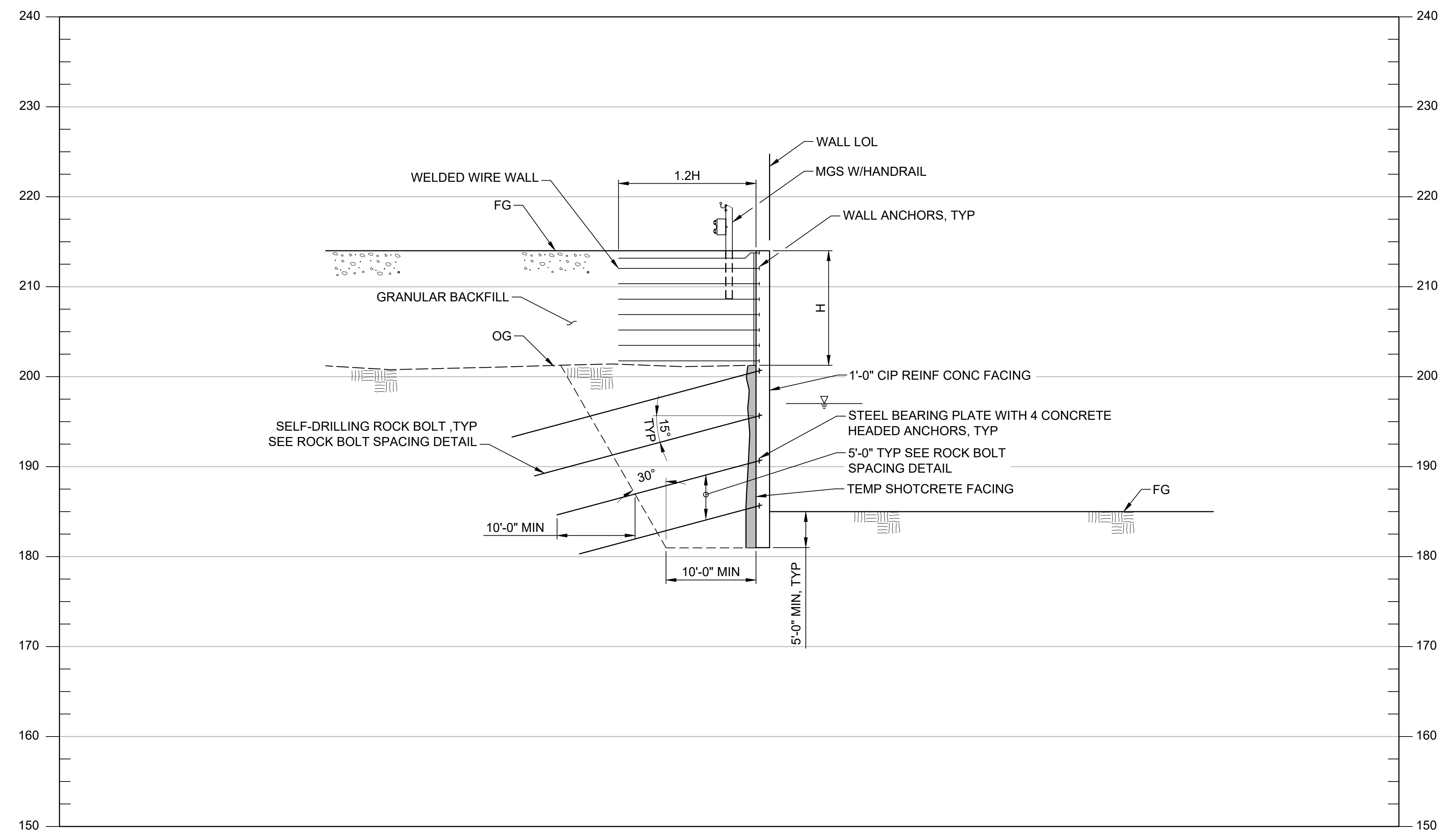
PRELIMINARY - NOT FOR CONSTRUCTION



Plot Date: 10/13/2023 9:21 AM File: C:\pwworking\hdr\_sites\_reservoir\dms02492\MPG-2107-S-3002.dwg Saved By: LAVAM

1 2 3 4 5 6 7 8 9 10

G  
F  
E  
D  
c  
B  
A



**B4** SECTION - RETAINING WALL  
1-1/2"=1'-0"  
MPG-2107-S-2001

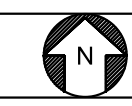
**GENERAL NOTES**

1. XXX

**SHEET KEY NOTES**

1. XXX

**KEY MAP**



REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: T. VESCO  
DRAWN BY: T. OLIWA  
CHECKED BY: W. OHLIN  
IN CHARGE: P. RUDE  
DATE: 10-17-2023



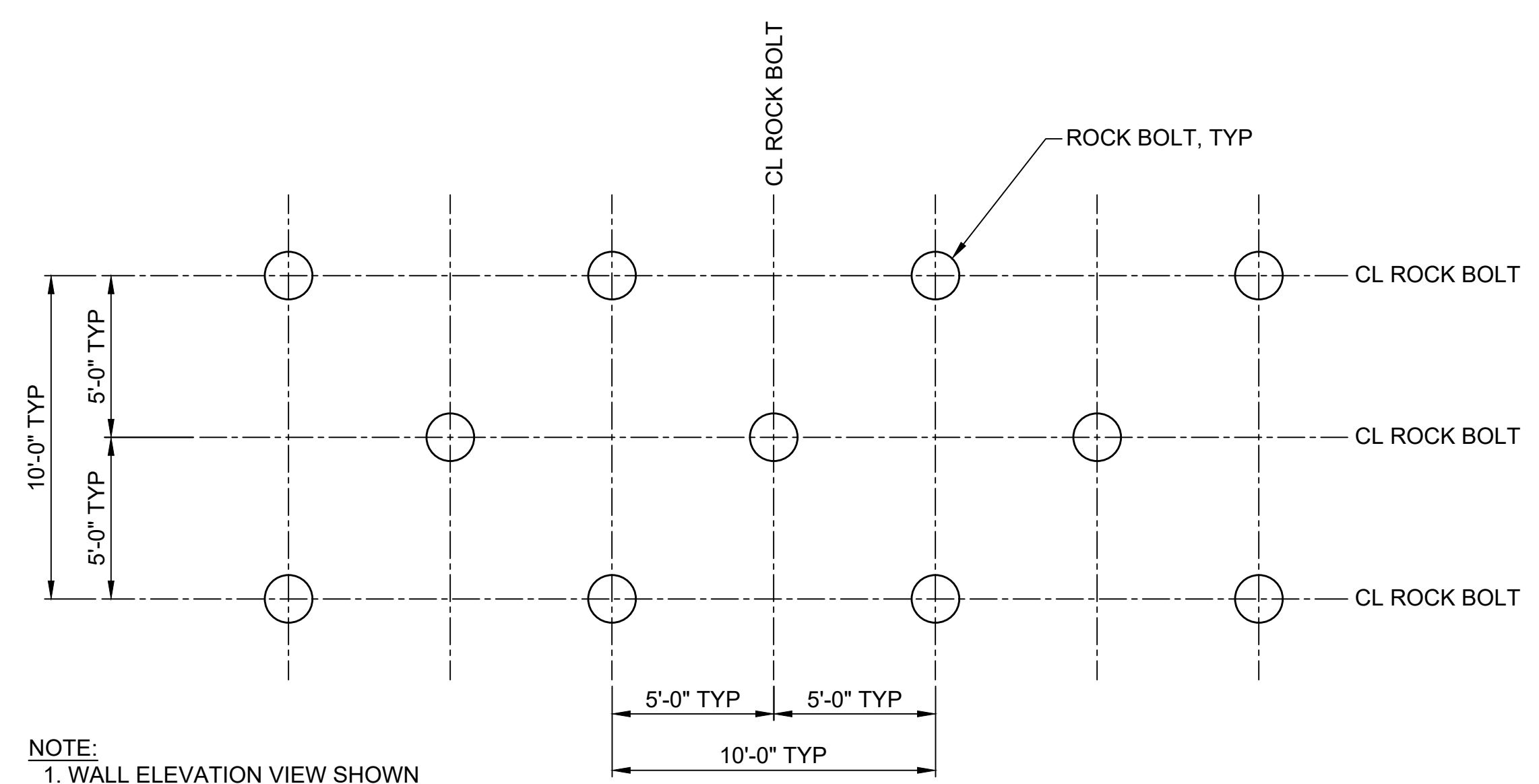
REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY D VESCO  
60219 CALIFORNIA



**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING STRUCTURAL  
FUNKS RESERVOIR PUMPING AND GENERATING PLANT  
RETAINING WALL SECTIONS

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
0 1"  
DRAWING NO.  
MPG-2107-S-3002  
SHT 36 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



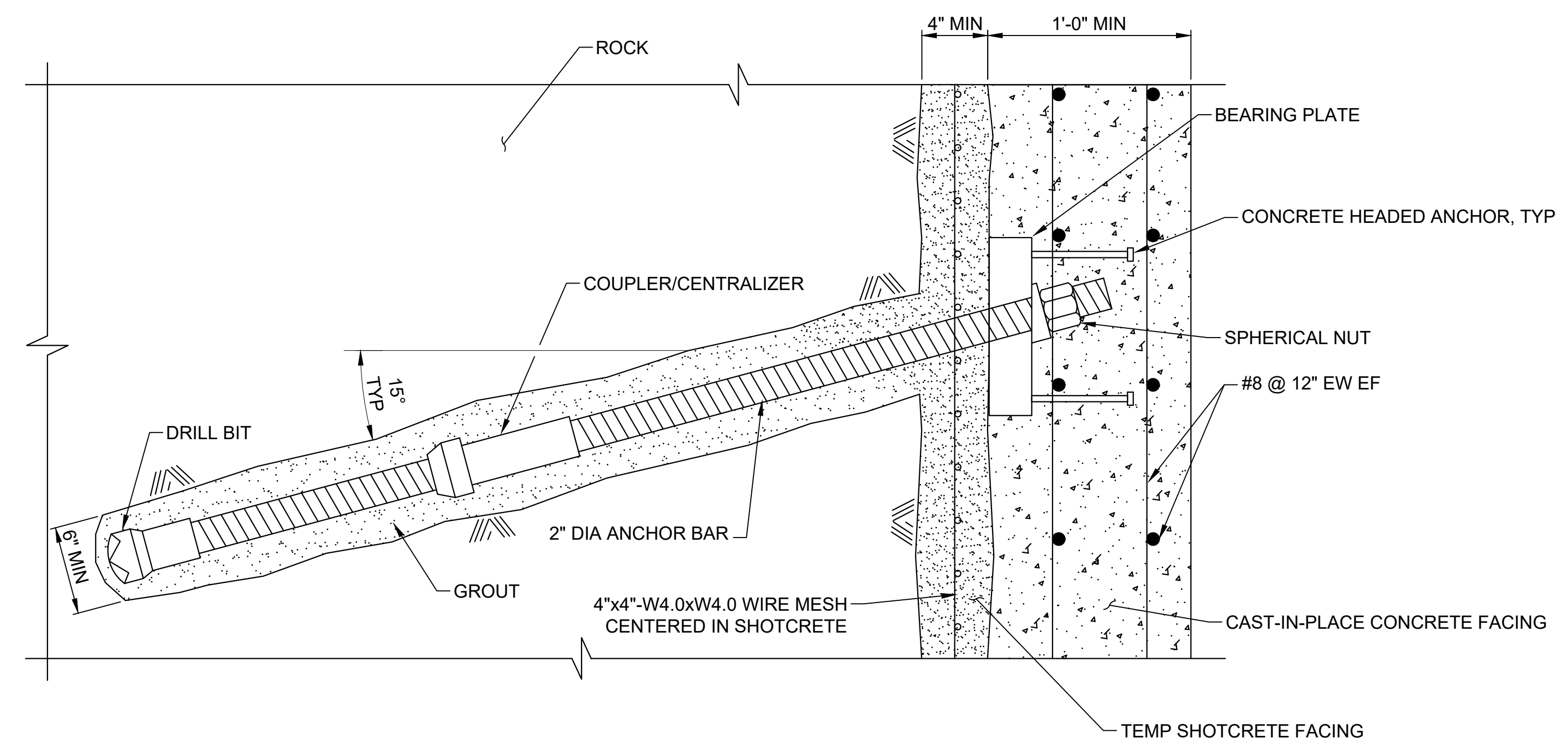
NOTE:  
1. WALL ELEVATION VIEW SHOWN

**E2** DETAIL - ROCK BOLT SPACING  
1/4"=1'-0"

GENERAL NOTES

SHEET KEY NOTES

KEY MAP



**A2** DETAIL - SELF DRILLING BOLT  
NTS

Plot Date: 10/13/2023 9:23 AM File: C:\pwworking\hdx\_sites\_reservoir\hdx\_sites\_reservoir\dms02492\MPG-2107-S-5001.dwg Saved By: OLIWA1

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: T. VESCO  
 DRAWN BY: T. OLIWA  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY D VESCO  
 60219 CALIFORNIA

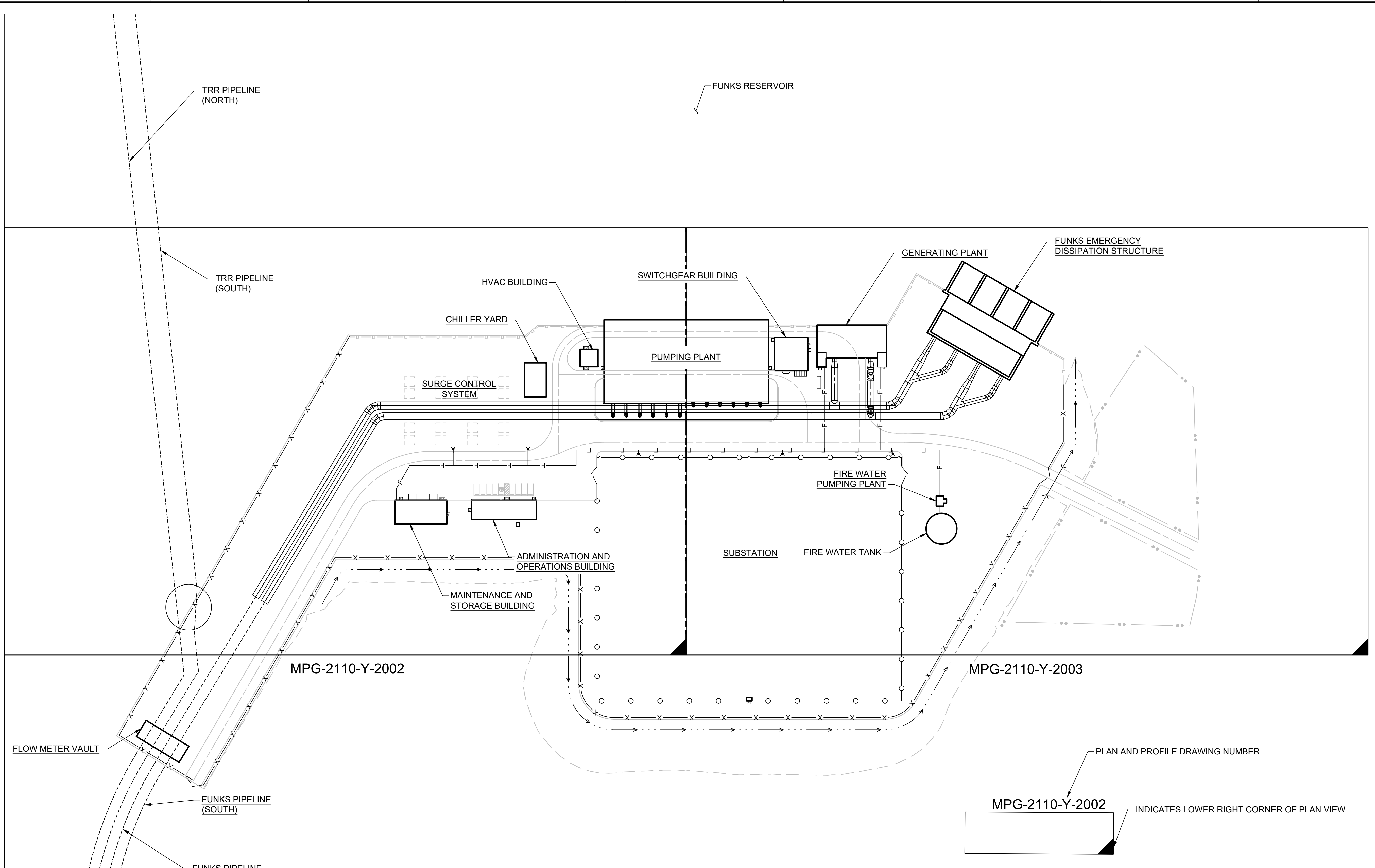


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING STRUCTURAL  
 FUNKS RESERVOIR PUMPING AND GENERATING PLANT  
 RETAINING WALL DETAILS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2107-S-5001  
 SHT 37 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

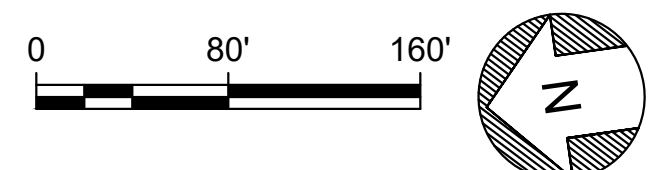
GENERAL NOTES



SHEET KEY NOTES

KEY MAP

PLAN  
HORIZ SCALE: 1" = 80'



PLAN AND PROFILE DRAWING NUMBER  
MPG-2110-Y-2002  
INDICATES LOWER RIGHT CORNER OF PLAN VIEW

Plot Date: 10/13/2023 10:02 AM File: C:\pwworking\hdi\_sites\_reservoir\dms01171\MPG-2110-Y-2001.dwg  
Saved By: HADIDIE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: A. VOTINO  
DRAWN BY: E. HADIDI  
CHECKED BY: K. PARIS  
IN CHARGE: P. RUDE  
DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
KERILYN PARIS  
87908  
CALIFORNIA

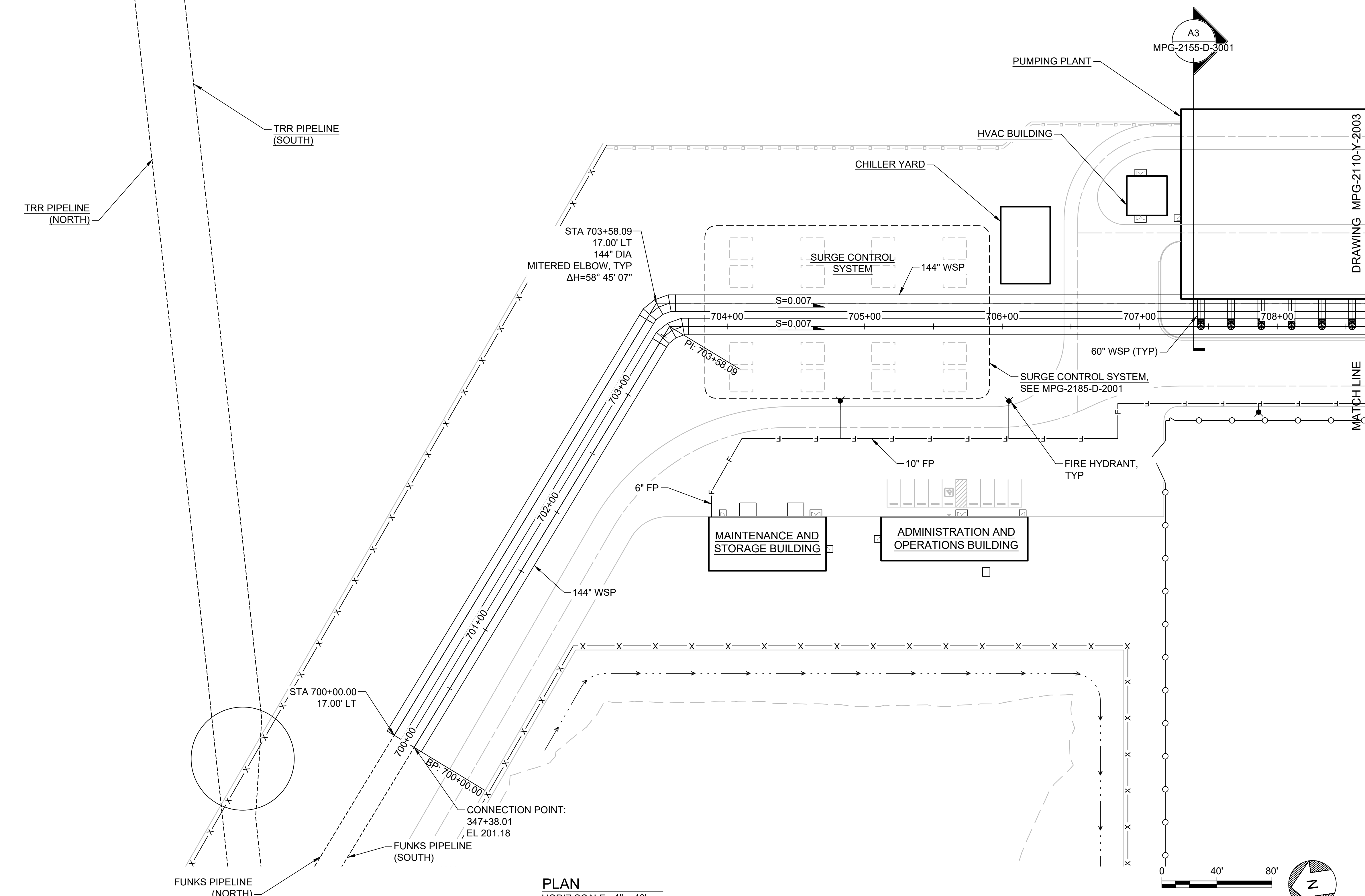


**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING YARD PIPING  
FUNKS RESERVOIR PUMPING AND GENERATING PLANT  
OVERALL YARD PIPING PLAN

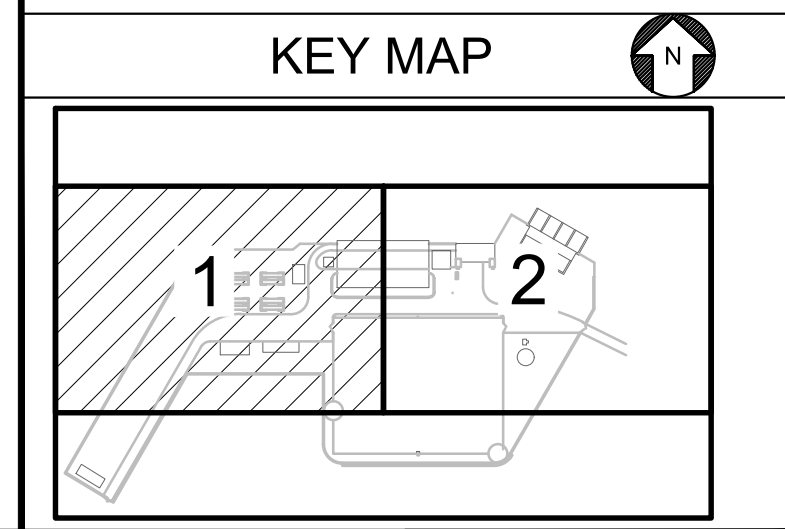
VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
DRAWING NO.  
MPG-2110-Y-2001  
SHT 38 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

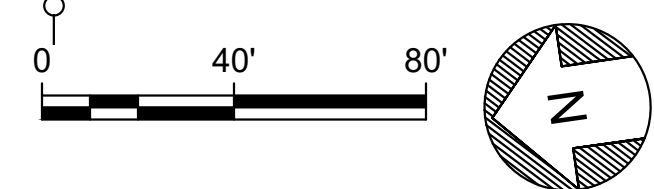
GENERAL NOTES



SHEET KEY NOTES



PLAN  
HORIZ SCALE: 1" = 40'



Plot Date: 10/13/2023 10:08 AM File: C:\pwworking\hadr\_sitas\_reservoir\dms01171\MPG-2110-Y-2002.dwg Saved By: HADIDIE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:  
A. VOTINO

DRAWN BY:  
E. HADIDI

CHECKED BY:  
K. PARIS

IN CHARGE:  
P. RUDE

DATE:  
10-17-2023

**Jacobs**  
2525 AIRPARK DR  
REDDING, CA 96001  
(530) 243-5831

REGISTERED  
PROFESSIONAL  
ENGINEER  
KERILYN PARIS  
87908  
CALIFORNIA



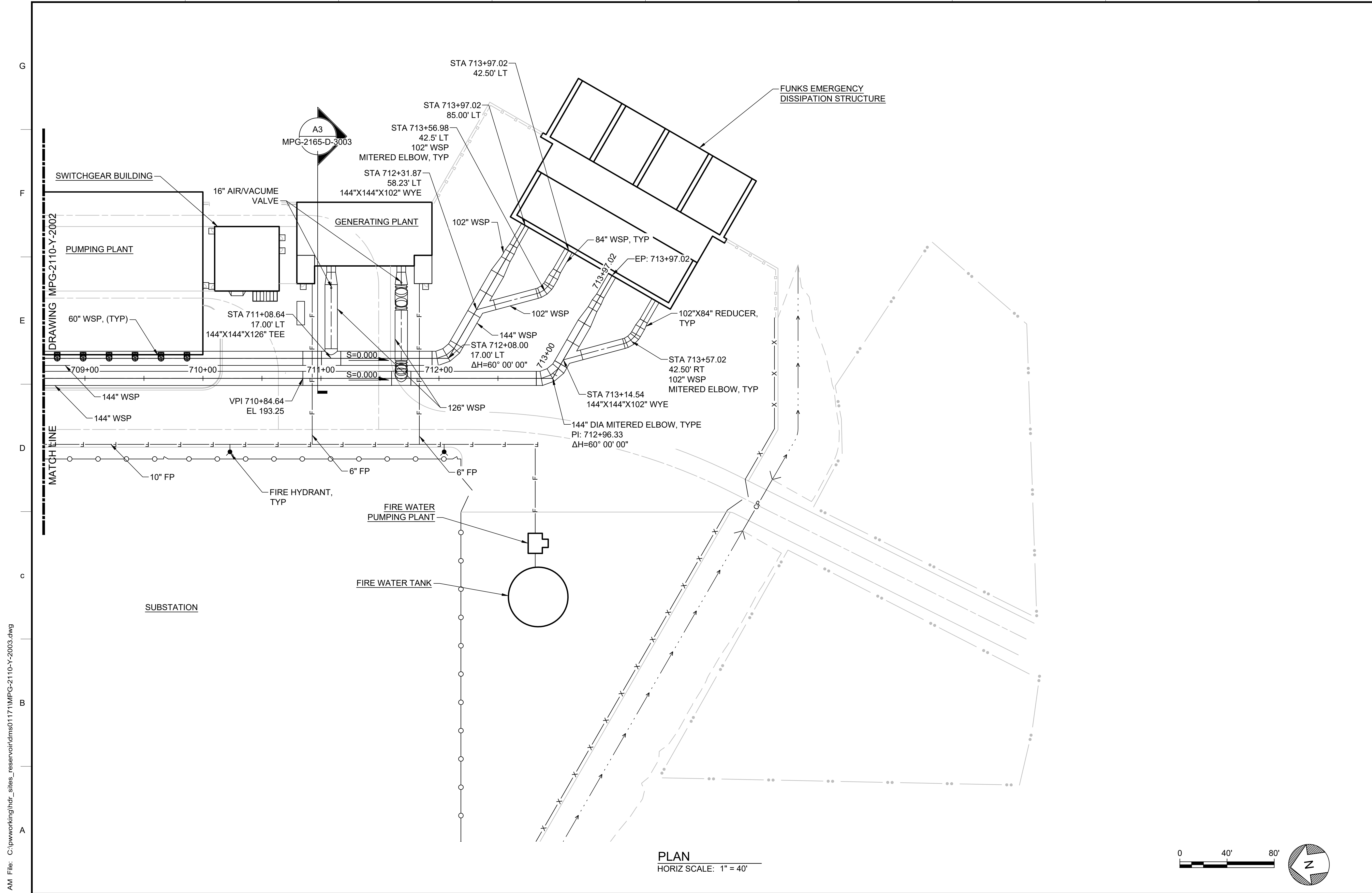
**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
YARD PIPING  
FUNKS RESERVOIR  
PUMPING AND GENERATING PLANT  
ENLARGED PLAN 1

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL  
DRAWING. ADJUST SCALES FOR  
REDUCED PLOTS

0 40 80 1"

DRAWING NO.  
MPG-2110-Y-2002  
SHT 39 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



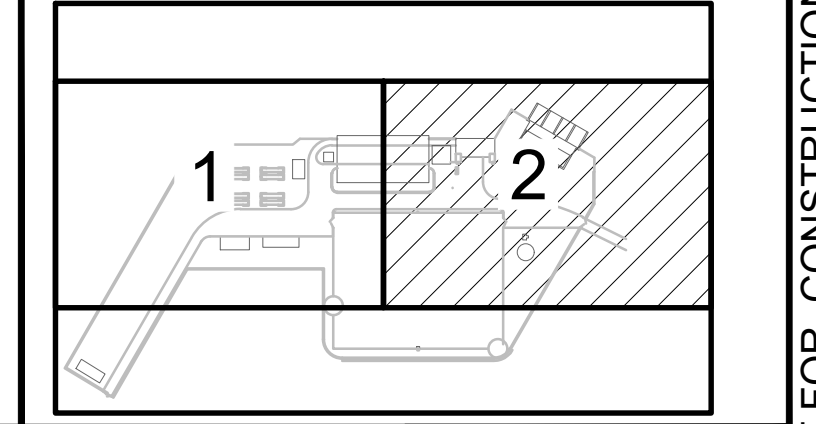
GENERAL NOTES

GENERAL NOTES

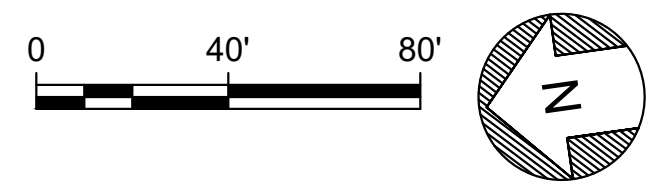
SHEET KEY NOTES

SHEET KEY NOTES

KEY MAP



PLAN  
HORIZ SCALE: 1" = 40'



Plot Date: 10/13/2023 10:11 AM File: C:\pwworking\hdi\_sites\_reservoir\dms01171\MPG-2110-Y-2003.dwg Saved By: HADIDIE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: A. VOTINO  
 DRAWN BY: E. HADIDI  
 CHECKED BY: K. PARIS  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 243-5831

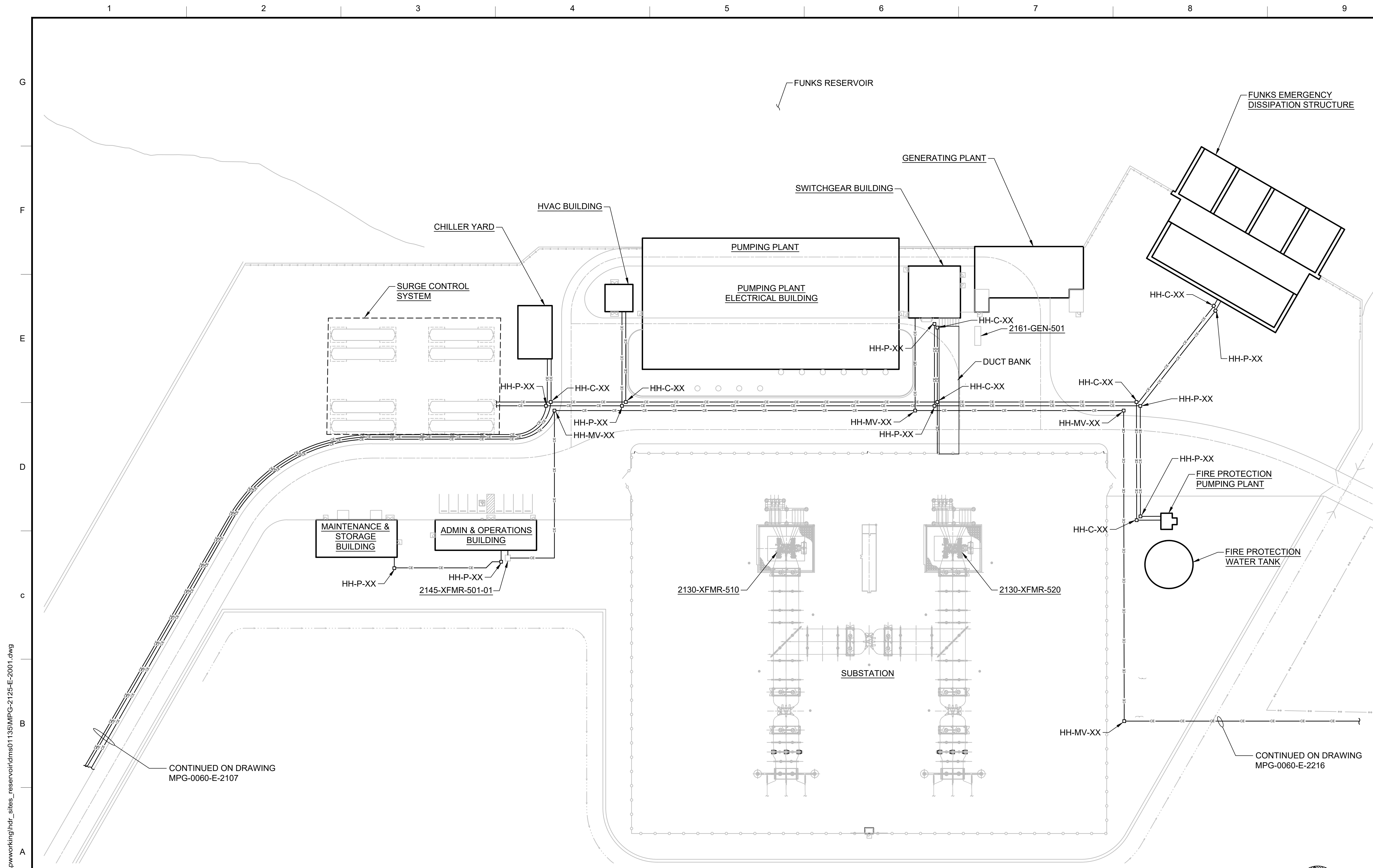
REGISTERED PROFESSIONAL ENGINEER  
 KERILYN PARIS  
 87908  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING YARD PIPING  
 FUNKS RESERVOIR  
 PUMPING AND GENERATING PLANT  
 ENLARGED PLAN 2

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1" 1"  
 DRAWING NO.  
 MPG-2110-Y-2003  
 SHT 40 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL NOTES**

1. FACILITY DRAWINGS ARE AS NOTED BELOW:
- ADMIN & OPERATIONS BUILDING: MPG-2145-E-2001
  - MAINTENANCE & STORAGE BUILDING: MPG-2150-E-2001
  - SUBSTATION: MPG-2130-E-2001
  - PUMPING PLANT: MPG-2155-E-2001
  - SWITCHGEAR BUILDING: MPG-2160-E-2001
  - GENERATING PLANT: MPG-2165-E-2001
  - FUNKS EMERGENCY DISSIPATION STRUCTURE: MPG-2175-E-2001
  - CHILLER YARD: MPG-2170-E-2001
  - HVAC BUILDING: MPG-2171-E-2001
  - FIRE WATER PUMPING PLANT: MPG-2181-E-2001
  - SURGE CONTROL SYSTEM: MPG-2185-E-2001

**SHEET KEY NOTES**

CONTINUED ON DRAWING MPG-0060-E-2107

CONTINUED ON DRAWING MPG-0060-E-2216

**KEY MAP**



**PLAN**  
HORIZ SCALE: 1" = 50'

Plot Date: 10/12/2023 11:01 AM File: C:\pwworking\hdr\_sites\_reservoir\dms01135\MPG-2125-E-2001.dwg Saved By: GARCIAE1

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: C. CUSWORTH  
 DRAWN BY: E. GARCIA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M. CUSWORTH  
 19120 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING ELECTRICAL  
 FUNKS RESERVOIR  
 SITE PLAN  
 OVERALL

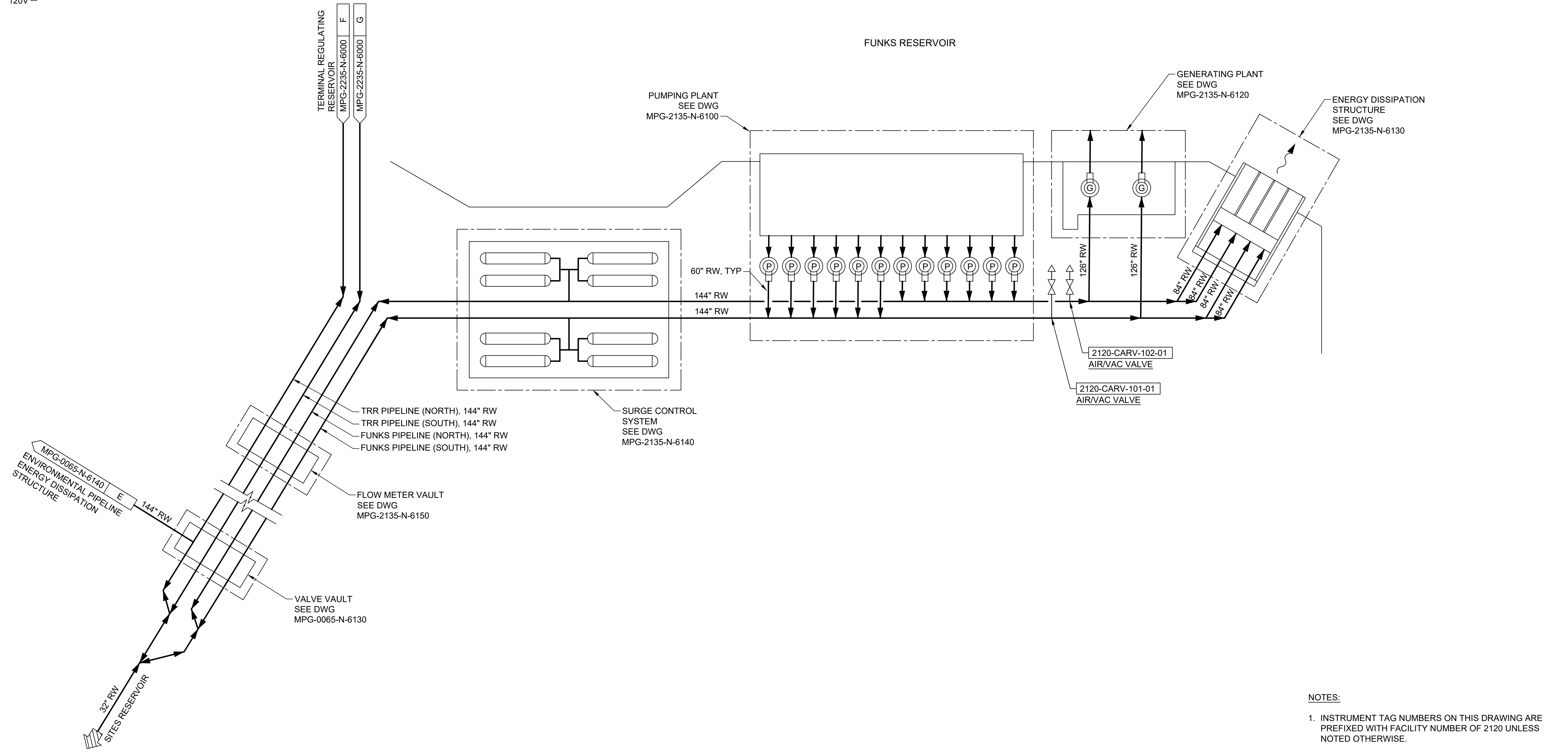
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1" 1"  
 DRAWING NO.  
 MPG-2125-E-2001  
 SHT 41 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

2160-MCP-100  
FUNKS RESERVOIR MASTER CONTROL PANEL

2160-PLC-100  
FUNKS RESERVOIR MASTER PLC

120V



- NOTES:**
- INSTRUMENT TAG NUMBERS ON THIS DRAWING ARE PREFIXED WITH FACILITY NUMBER OF 2120 UNLESS NOTED OTHERWISE.

File: C:\pwworking\hdc\_sitas\_reservoir\dms01107\MPG-2135-N-6000.dwg  
 Plot Date: 9/27/2023 3:46 PM  
 Saved By: DJOHNS15

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D. JOHNSON  
 DRAWN BY: E. GARCIA  
 CHECKED BY: J. HISE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



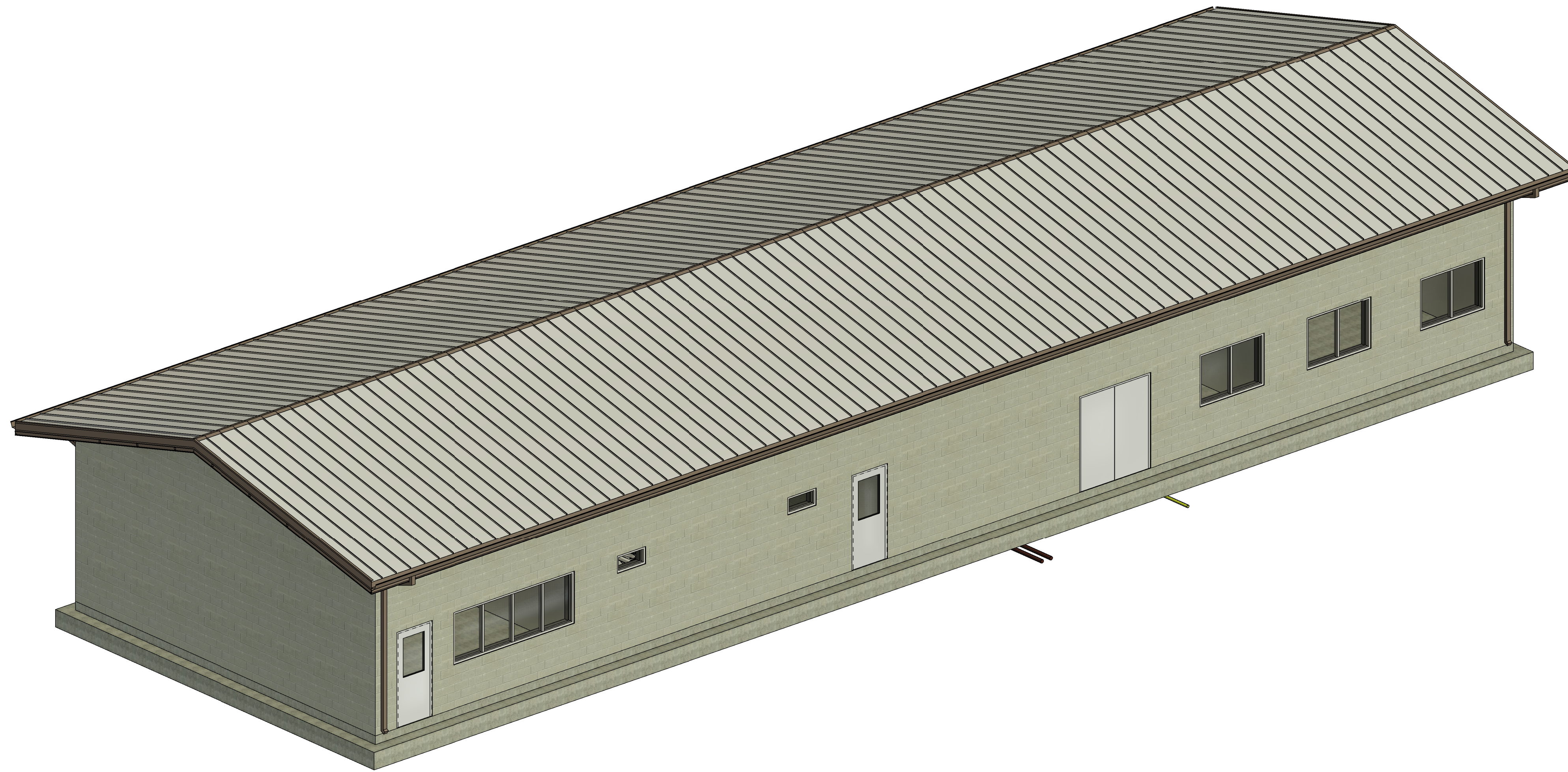
REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 DEREK S. JOHNSON  
 7671  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 INSTRUMENTATION AND CONTROLS  
 FUNKS RESERVOIR  
 P&ID - OVERALL

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2135-N-6000  
 SHT 42 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - ADMINISTRATION AND OPERATIONS BUILDING

BIN 360//10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
10/12/2023 2:33:11 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 P.E. REG No. 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 RENDERING

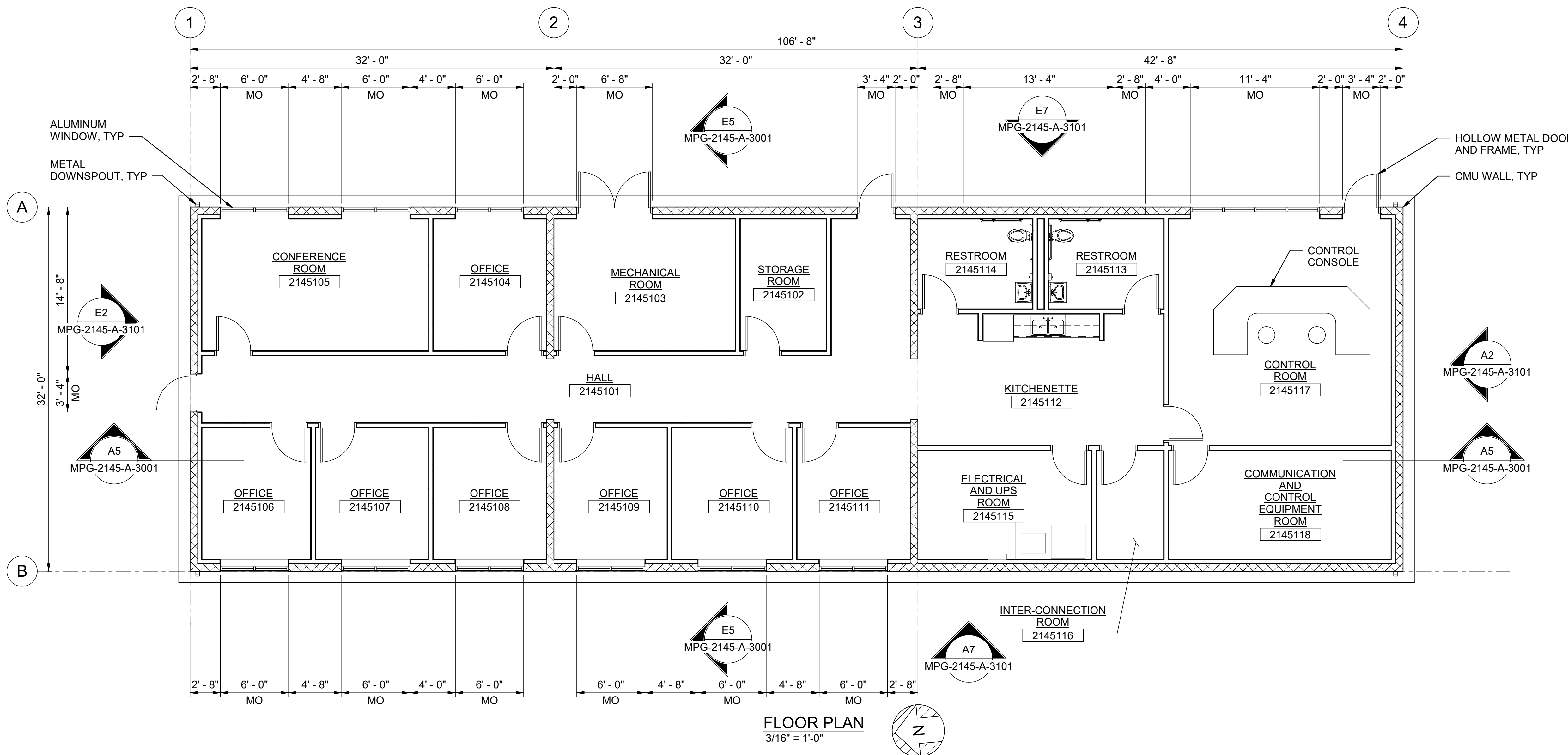
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2145-G-0001  
 SHT 54 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0202.



**FLOOR PLAN**  
3/16" = 1'-0"

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2145-S-z3Dn01.rvt  
 9/25/2023 8:57:04 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 FLOOR PLAN

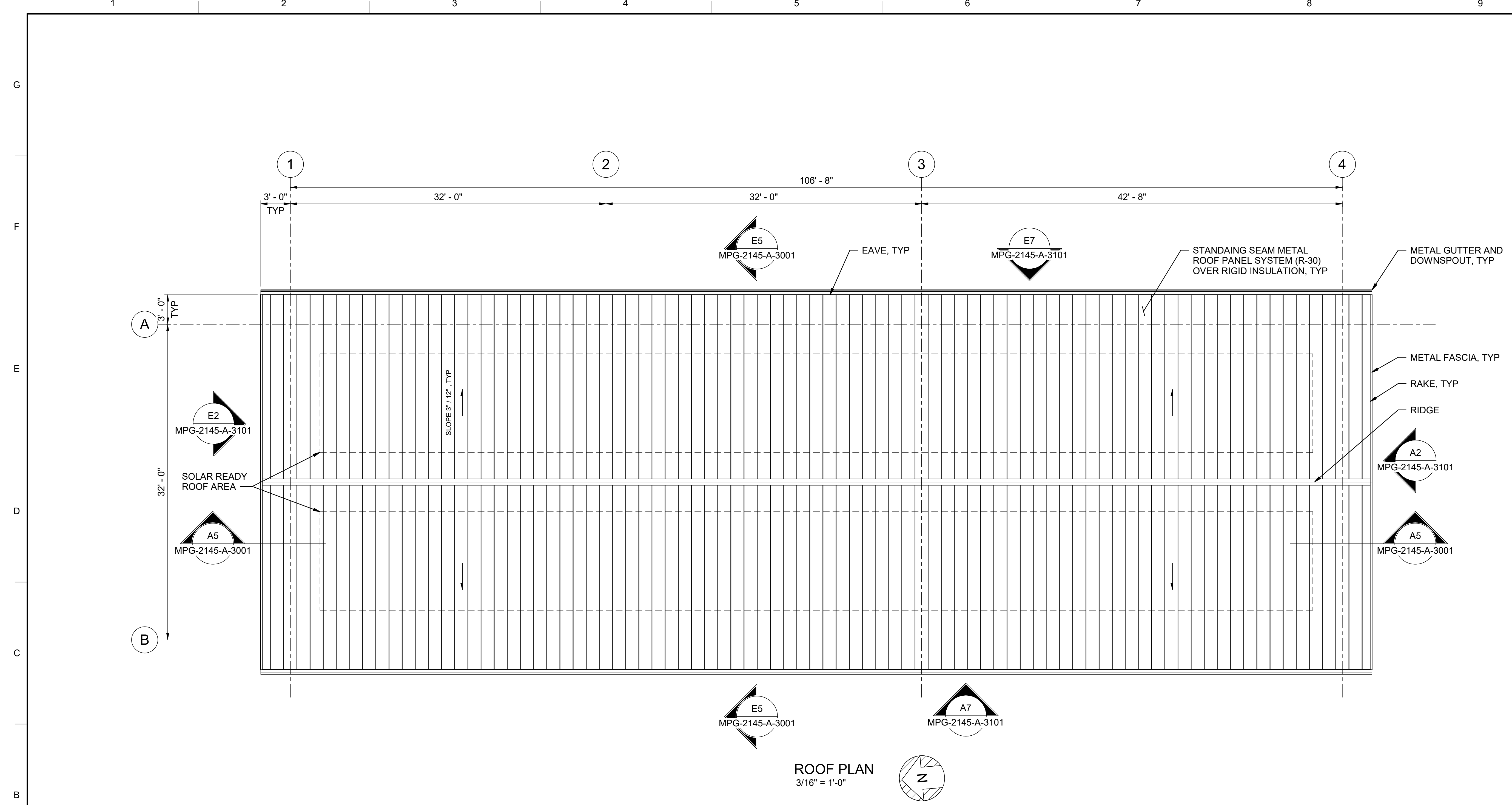
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  

 1"  
 DRAWING NO.  
 MPG-2145-A-2001  
 SHT 55 OF 176

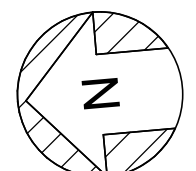
PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0202.



**ROOF PLAN**  
3/16" = 1'-0"



BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2145-S-z3Dn01.rvt  
9/25/2023 8:57:05 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



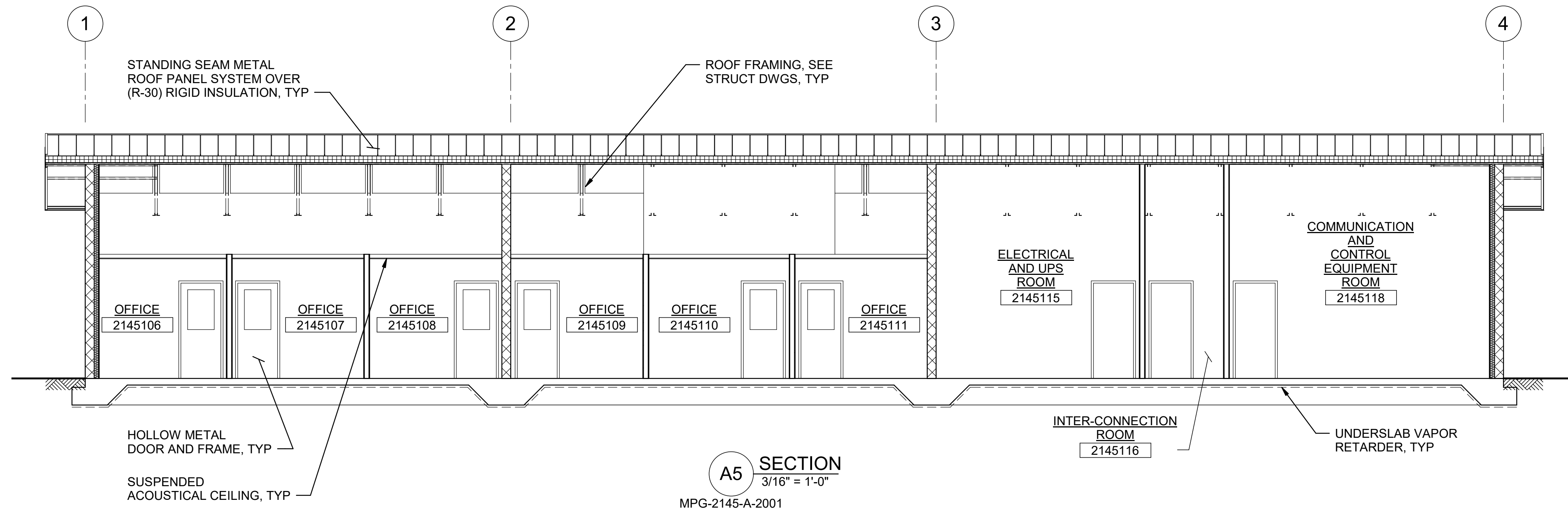
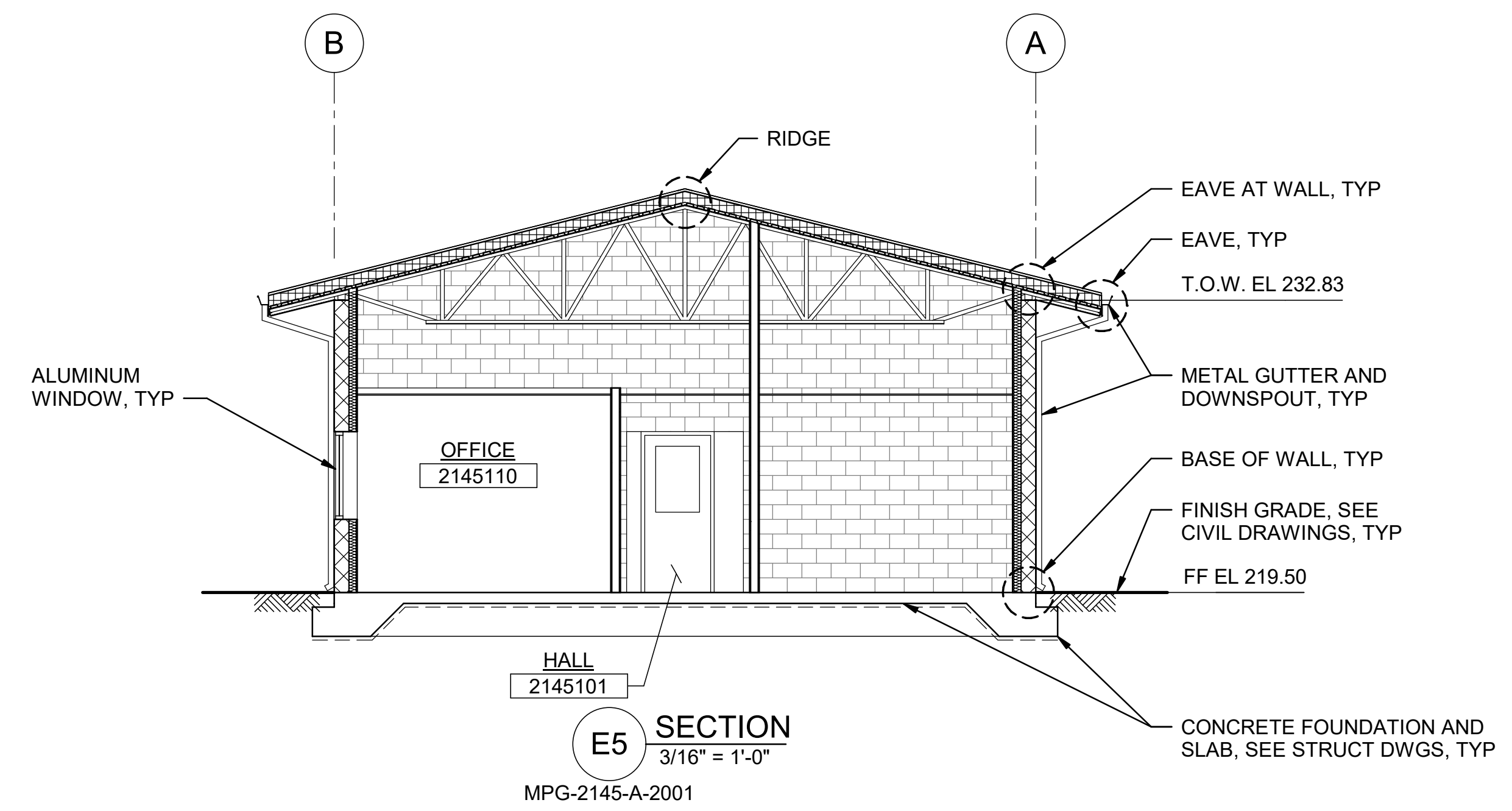
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 ROOF PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2145-A-2201  
 SHT 56 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2145-S-z3Dn01.rvt  
 9/25/2023 8:57:06 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA

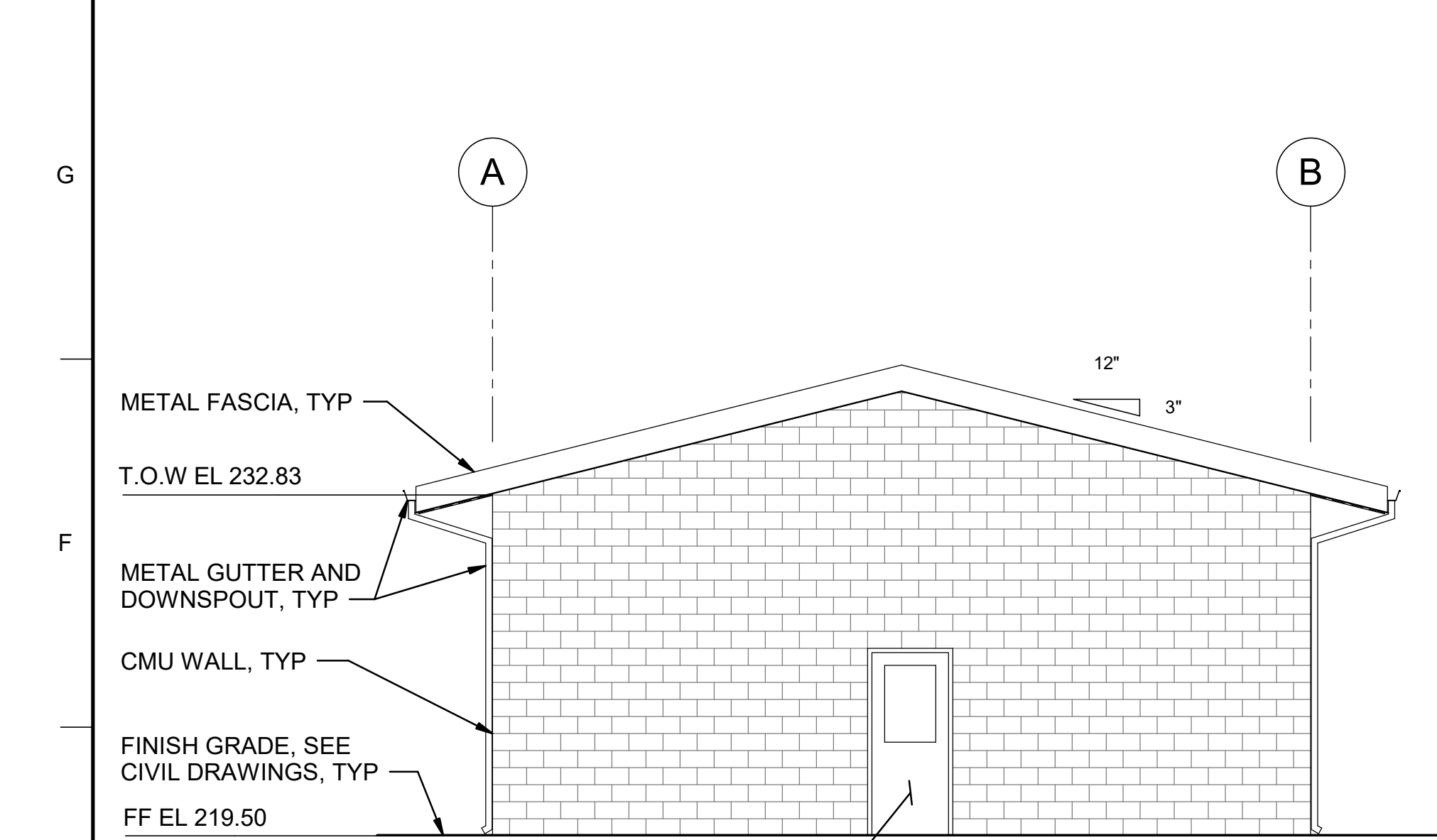


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 SECTIONS

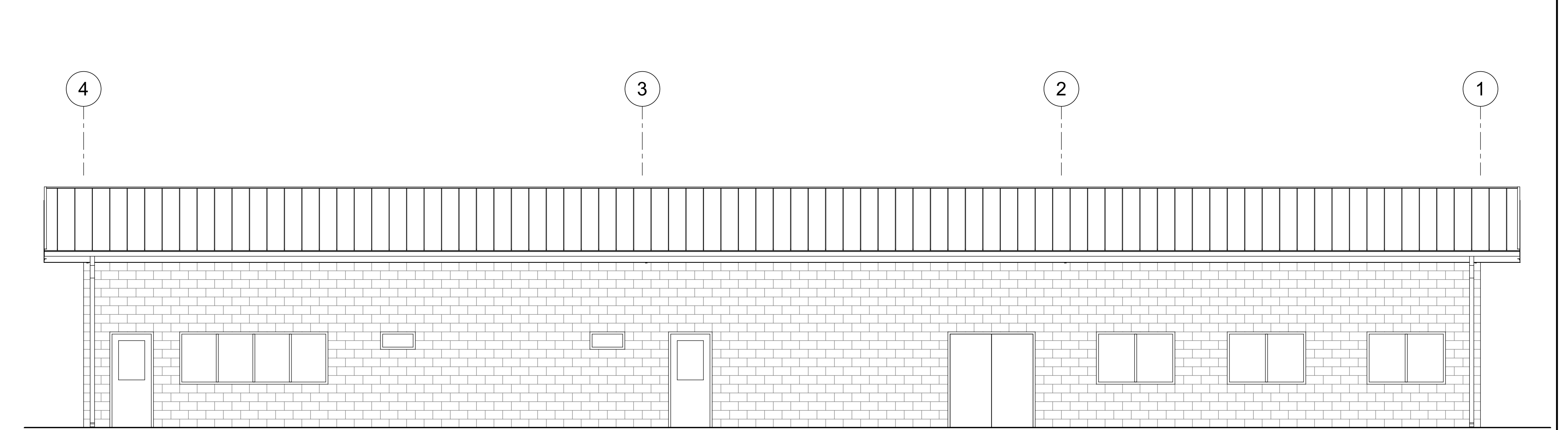
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
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 MPG-2145-A-3001  
 SHT 57 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

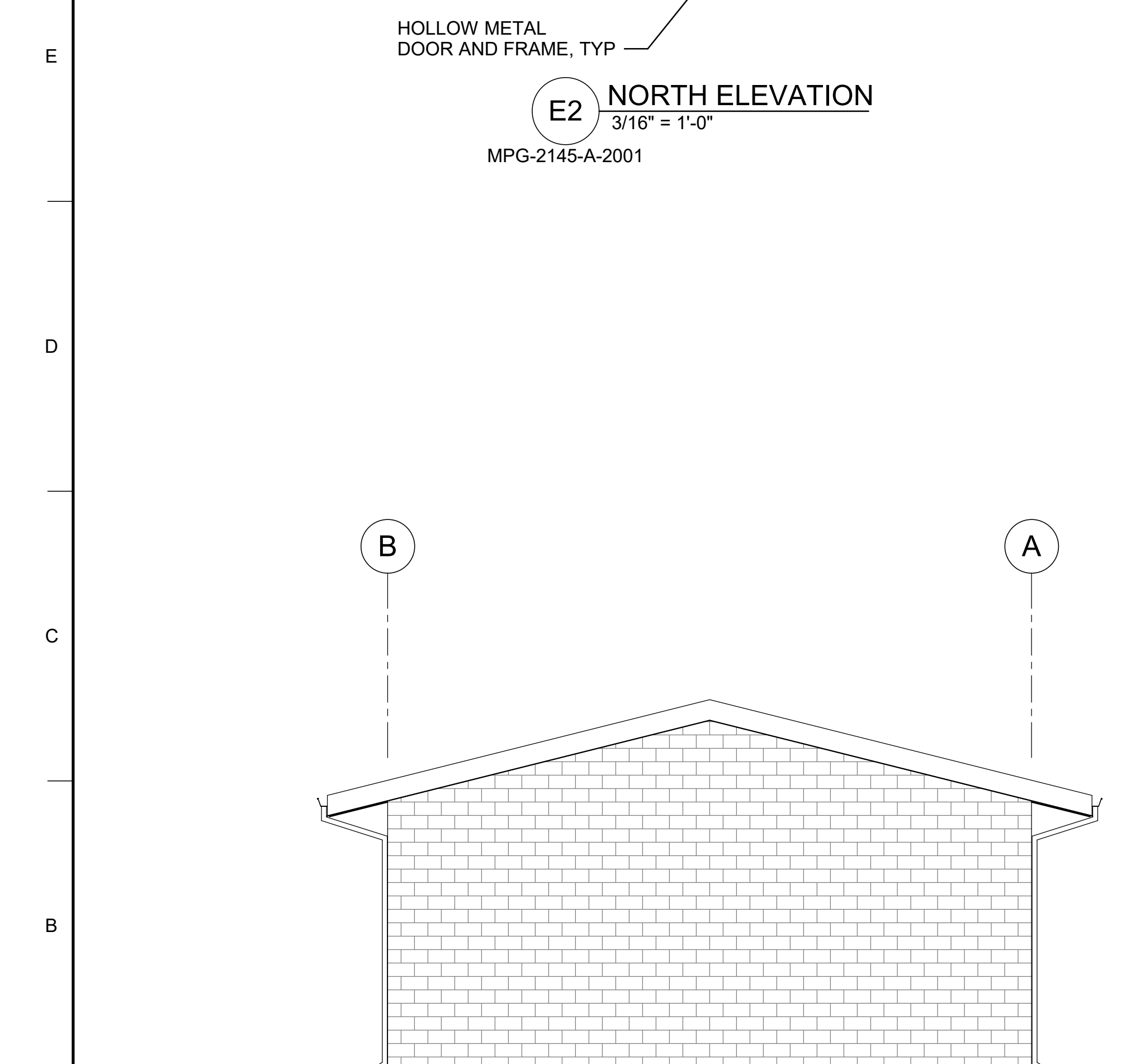
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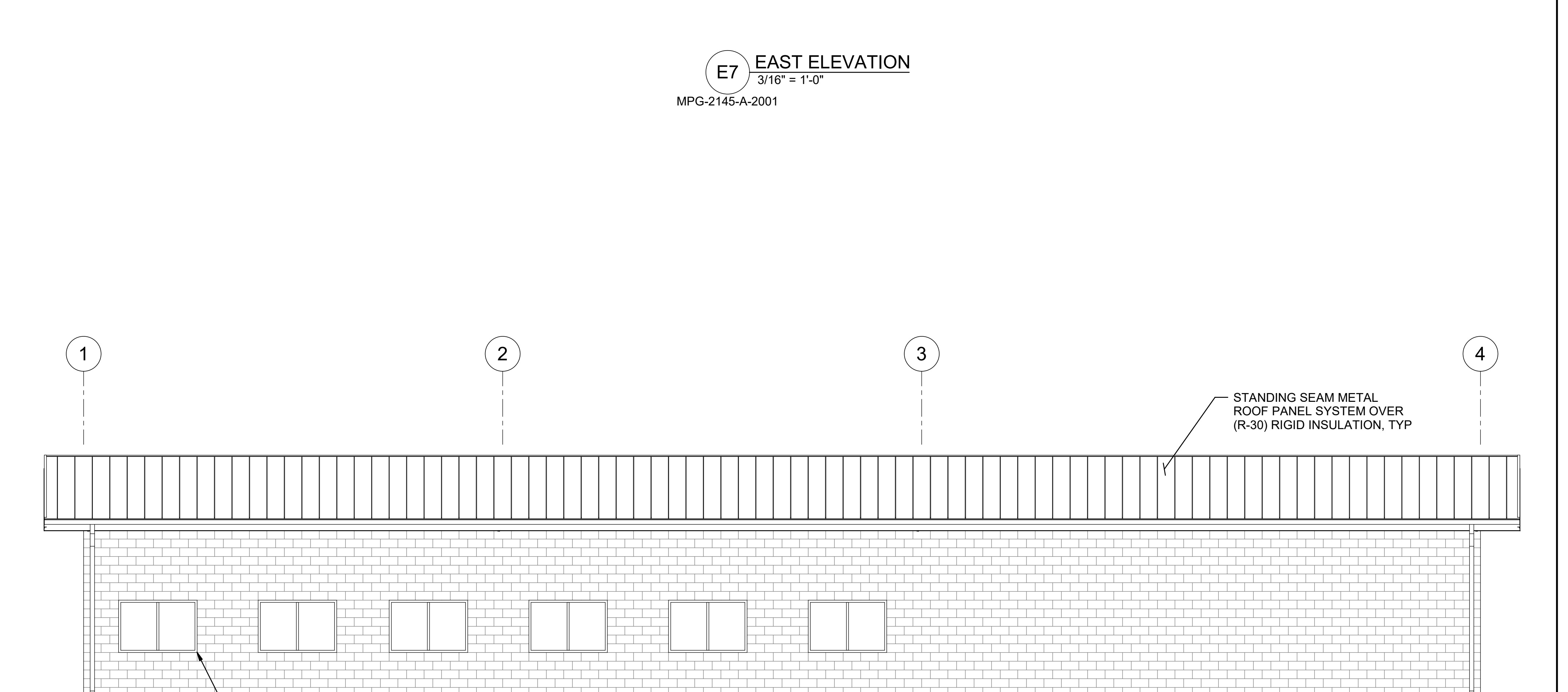
**E2 NORTH ELEVATION**  
3/16" = 1'-0"  
MPG-2145-A-2001



**E7 EAST ELEVATION**  
3/16" = 1'-0"  
MPG-2145-A-2001



**A2 SOUTH ELEVATION**  
3/16" = 1'-0"  
MPG-2145-A-2001



**A7 WEST ELEVATION**  
3/16" = 1'-0"  
MPG-2145-A-2001

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2145-S-z3Dn01.rvt  
 9/25/2023 8:57:07 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



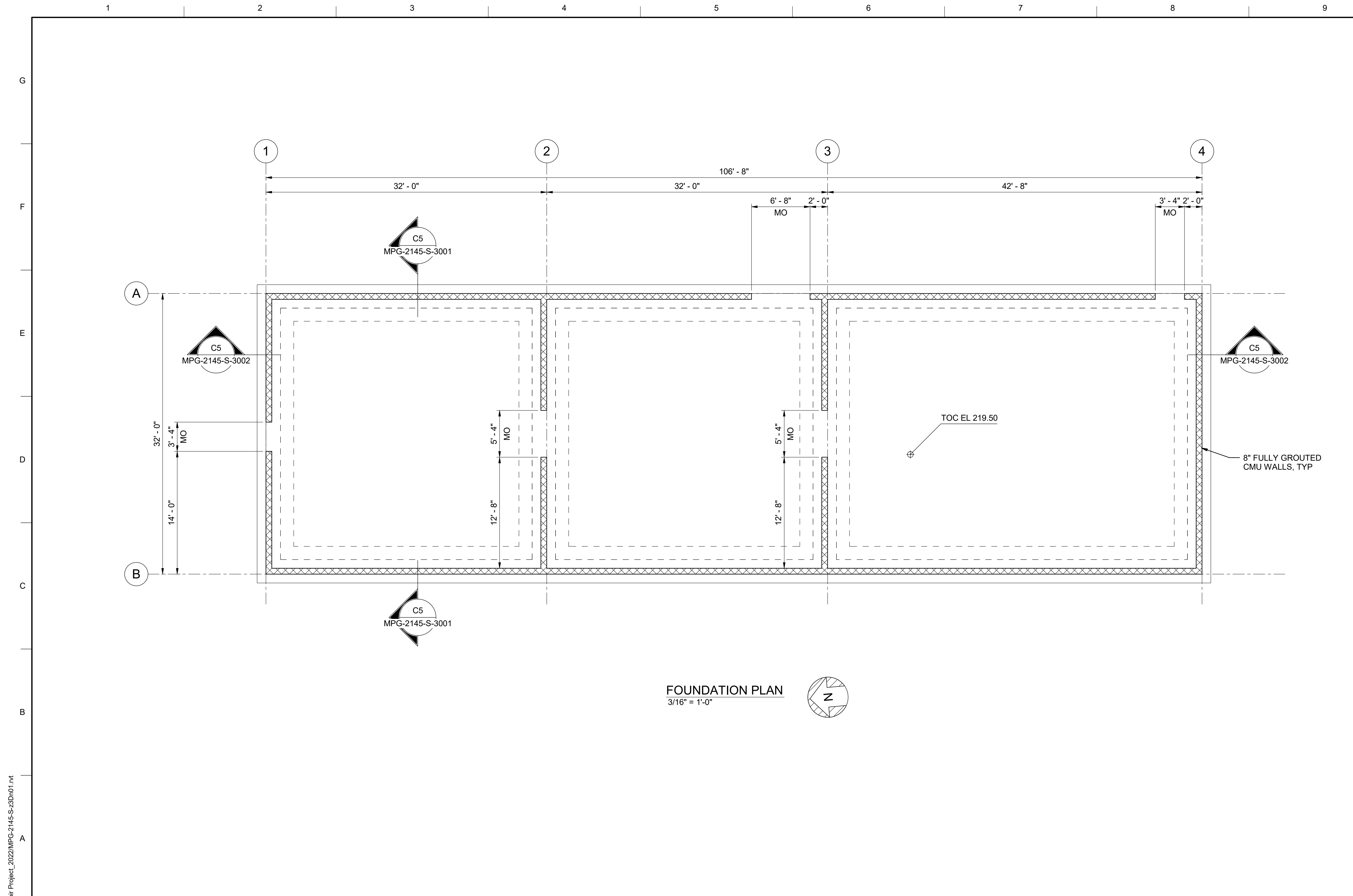
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 EXTERIOR ELEVATIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2145-A-3101  
 SHT 58 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

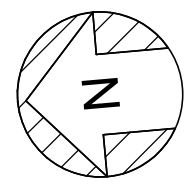


**GENERAL NOTES**

- SEISMIC LATERAL FORCE RESISTING SYSTEM
  - LATERAL FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS
  - RESPONSE MODIFICATION FACTOR, R=5
  - IMPORTANCE FACTOR, I<sub>e</sub>=1.0
  - RISK CATEGORY =II
  - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub>=0.134

**SHEET KEY NOTES**

**FOUNDATION PLAN**  
3/16" = 1'-0"



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2145-S-3001.dwg  
 23-Aug-23 9:51:19 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



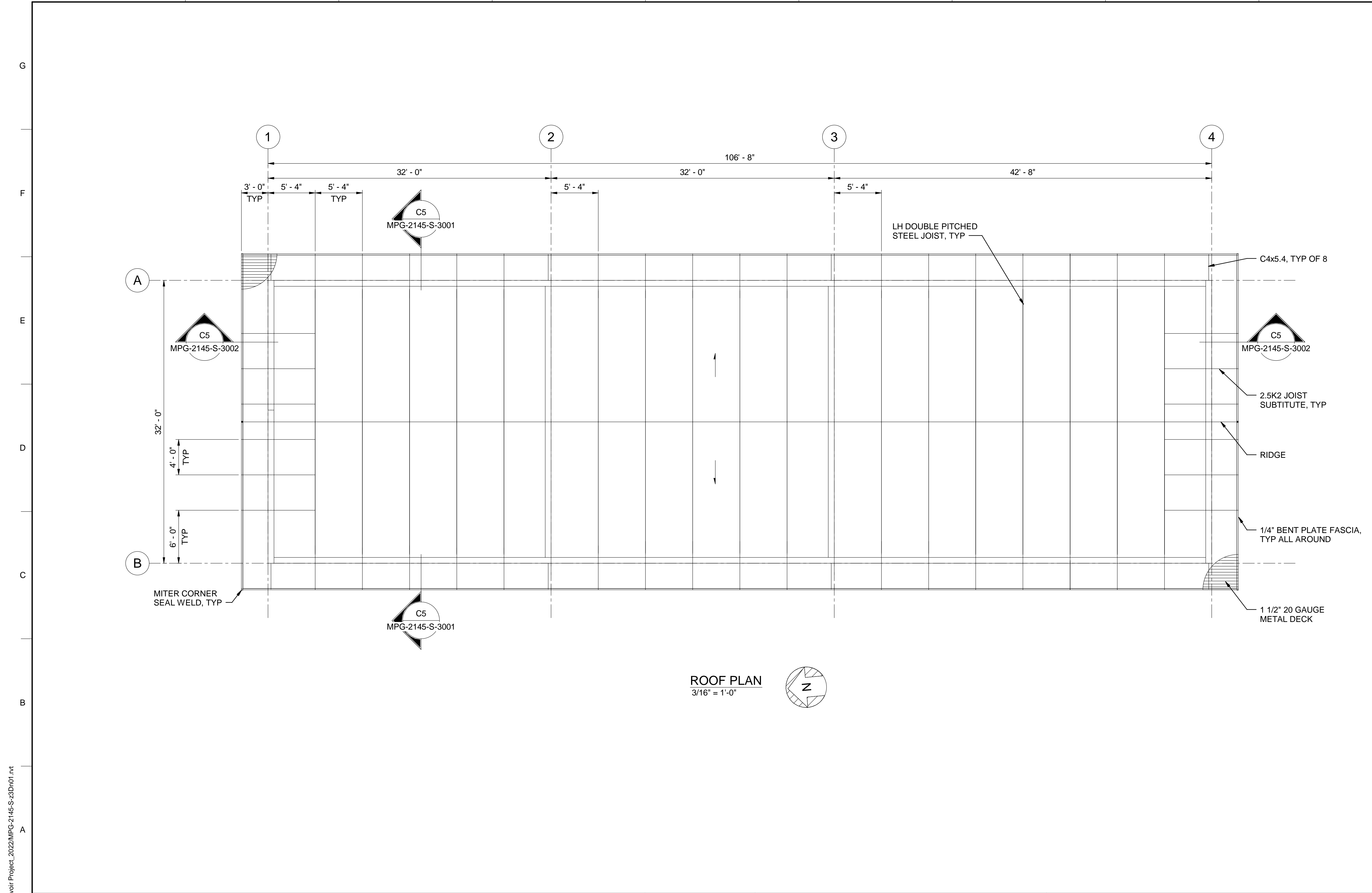
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2145-S-2001  
 SHT 59 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**ROOF PLAN**  
3/16" = 1'-0"

**GENERAL NOTES**

**SHEET KEY NOTES**

BIM 360://1033322\_Site Reservoir Project\_2022/MPG-2145-S-3Dn01.rvt  
 31-Aug-23 10:58:14 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

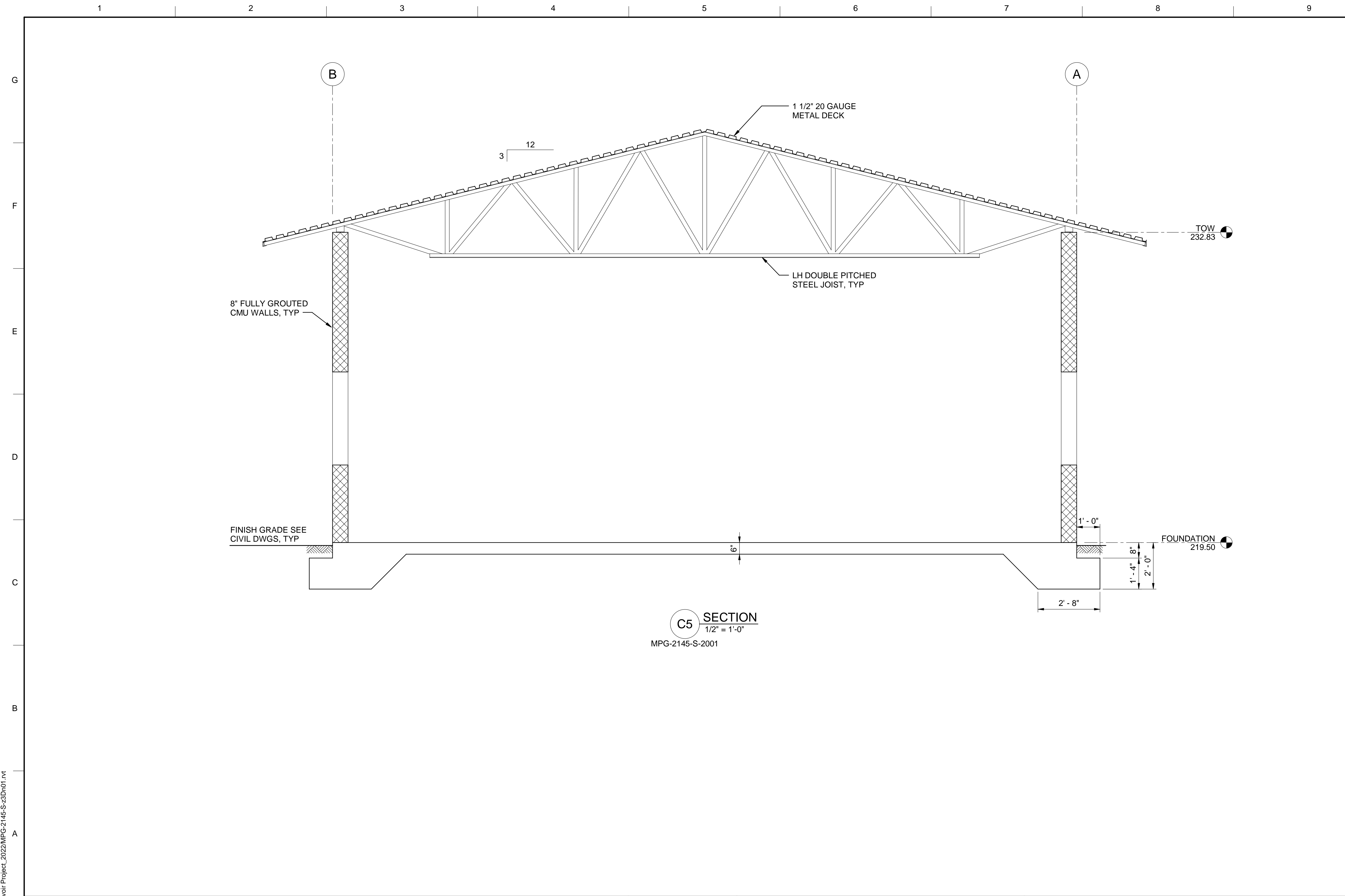


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 ROOF PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 1"  
 DRAWING NO.  
 MPG-2145-S-2101  
 SHT 60 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

BIM 360://1033322\_Site Reservoir Project\_2022/MPG-2145-S-3Dn01.rvt  
 31-Aug-23 10:58:16 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

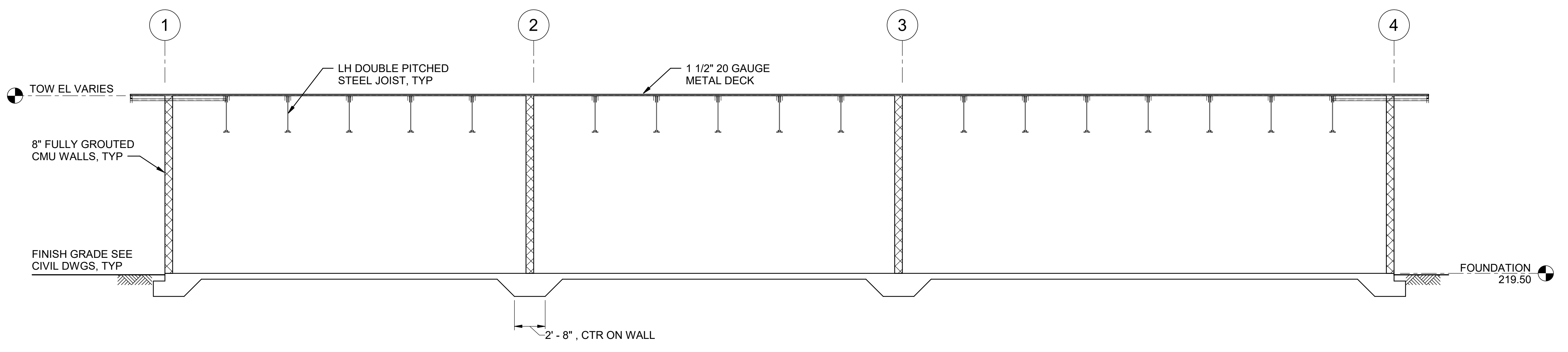


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 SECTION

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

DRAWING NO.  
 MPG-2145-S-3001  
 SHT 61 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**C5 SECTION**  
 3/16" = 1'-0"  
 MPG-2145-S-2001

GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2145-S-33Dn01.rvt  
 9/25/2023 9:28:40 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

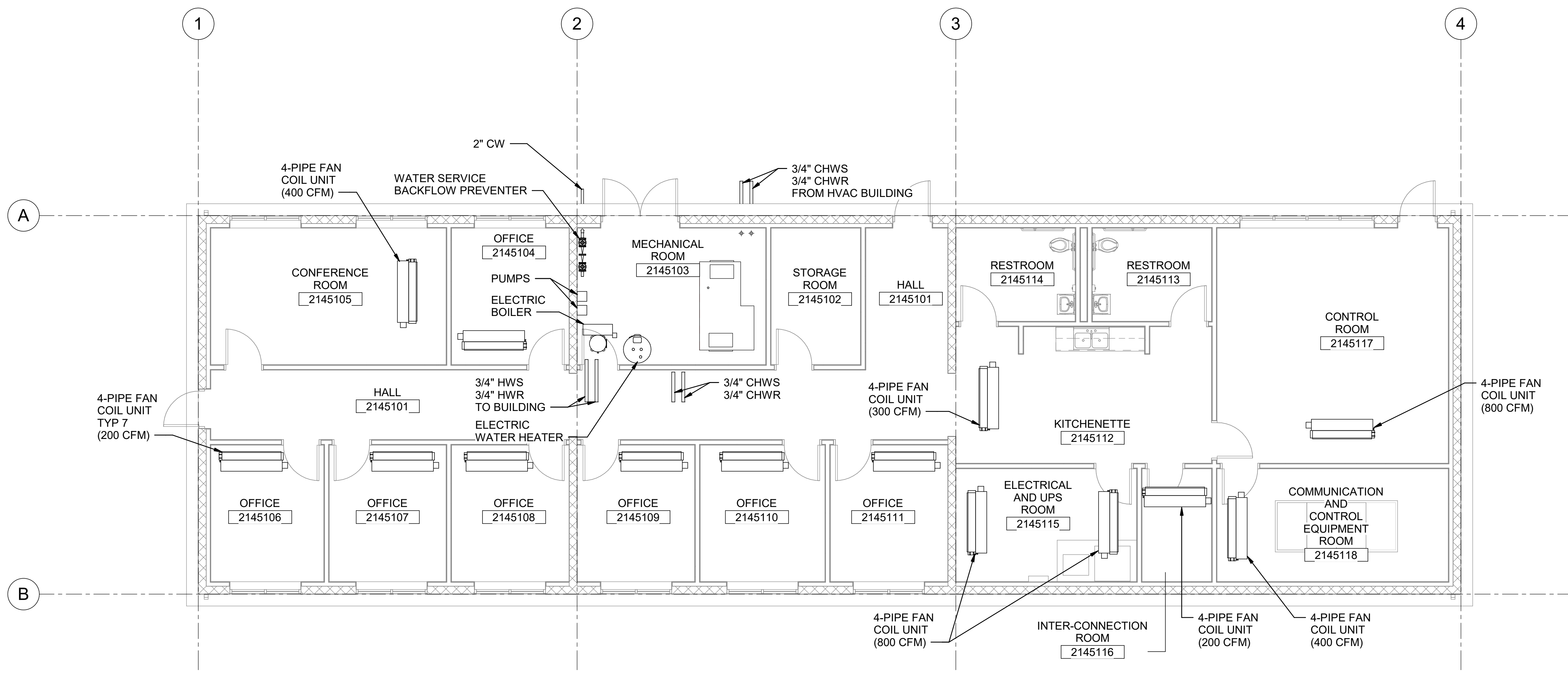


**SITES RESERVOIR**  
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 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 SECTION

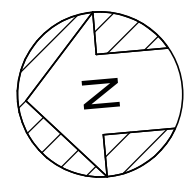
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2145-S-3002  
 SHT 62 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





**FLOOR PLAN**  
3/16" = 1'-0"



BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2145-H-z3Dn01.rvt  
10/4/2023 5:40:27 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: P. RAUSCH  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



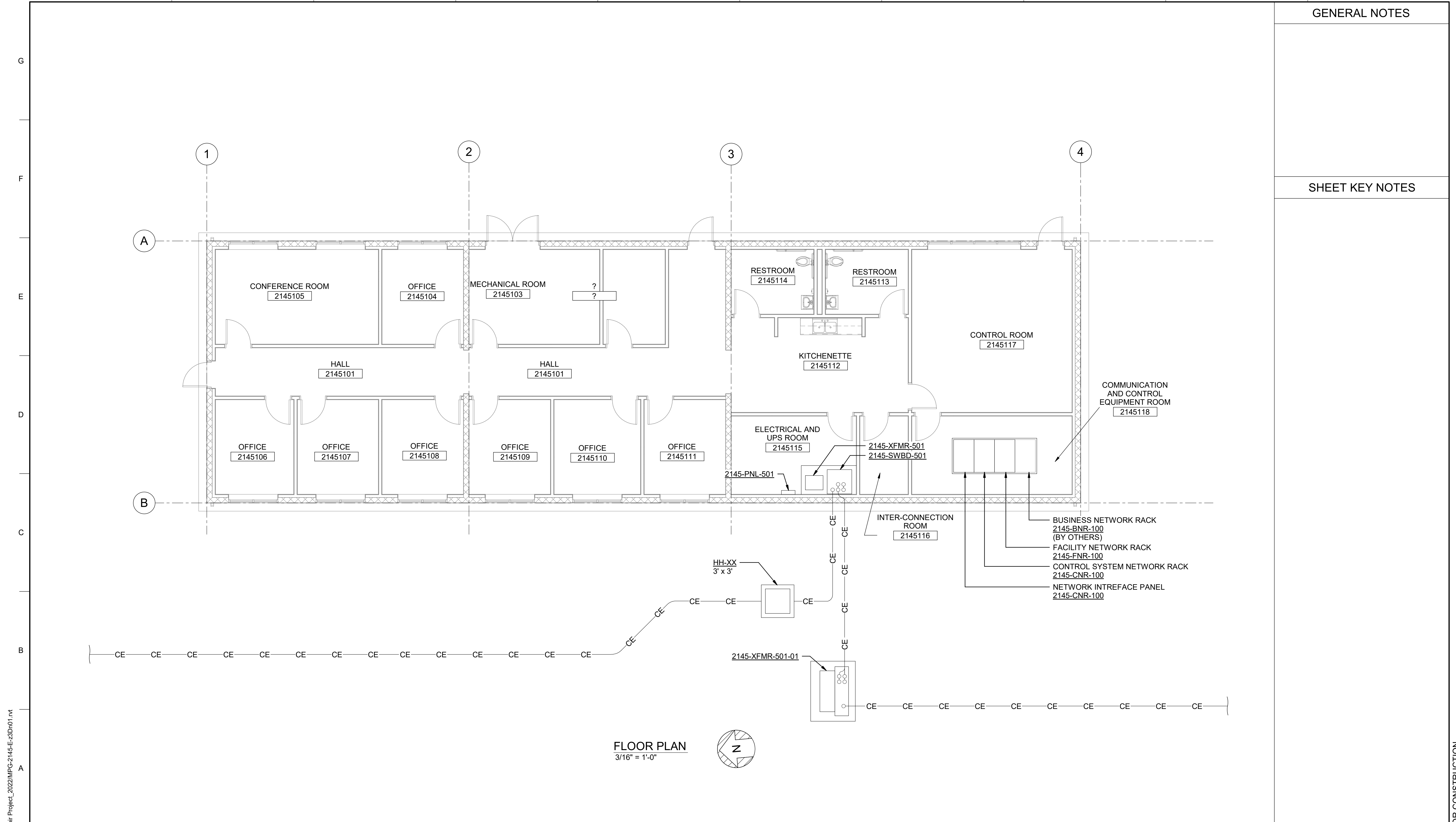
REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 HVAC  
 FUNKS RESERVOIR  
 ADMINISTRATION AND OPERATIONS BUILDING  
 FLOOR PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2145-H-2001  
 SHT 63 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2145-E-z3Dn01.rvt  
 10/4/2023 3:49:25 PM

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: C. CUSWORTH  
 DRAWN BY: E. GARCIA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

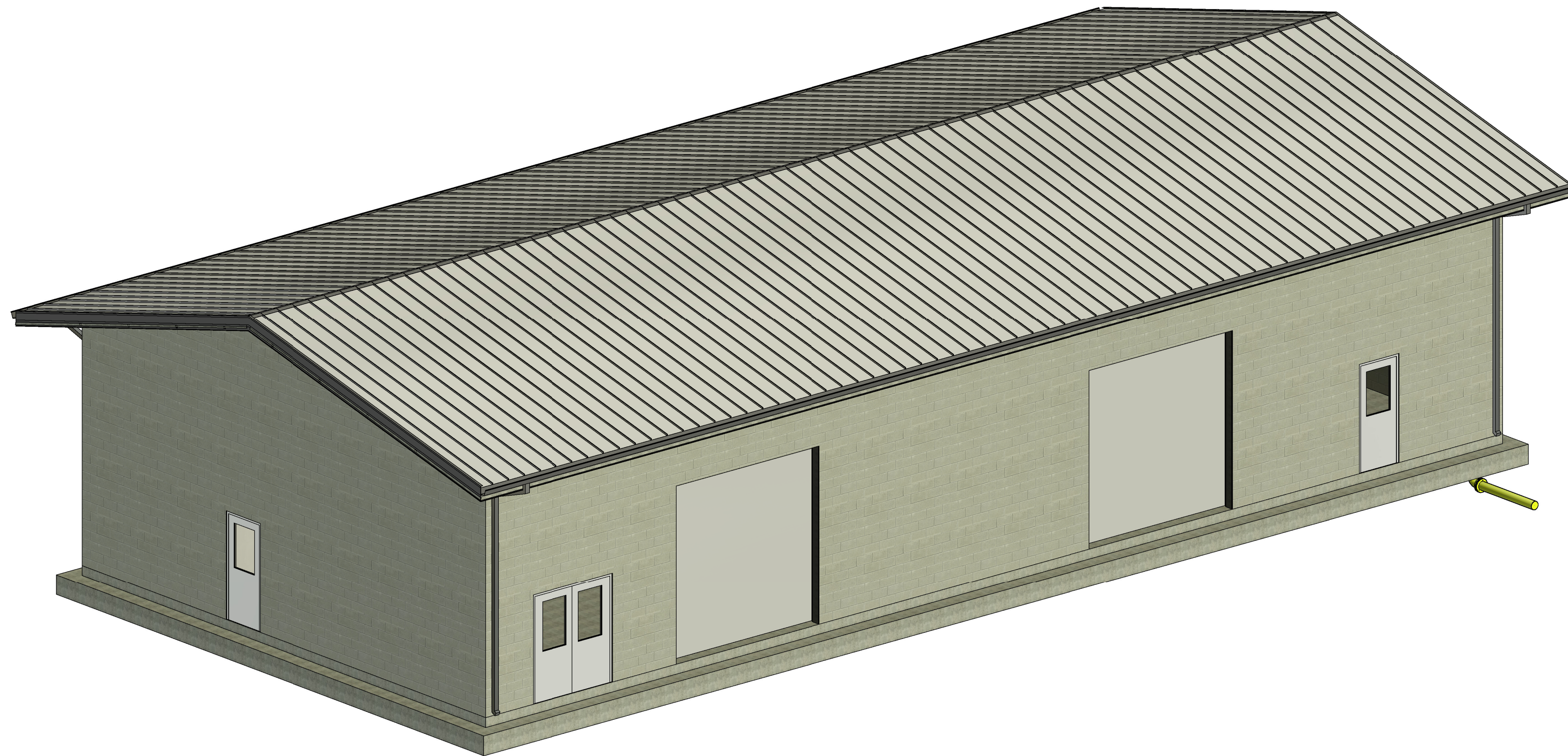
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 ELECTRICAL  
 FUNKS RESERVOIR  
 ADMIN & OPERATIONS BUILDING  
 PLAN

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

DRAWING NO.  
 MPG-2145-E-2001  
 SHT 64 OF 176



ISOMETRIC - MAINTENANCE AND STORAGE BUILDING

BIN 360//10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt 10/12/2023 2:33:42 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



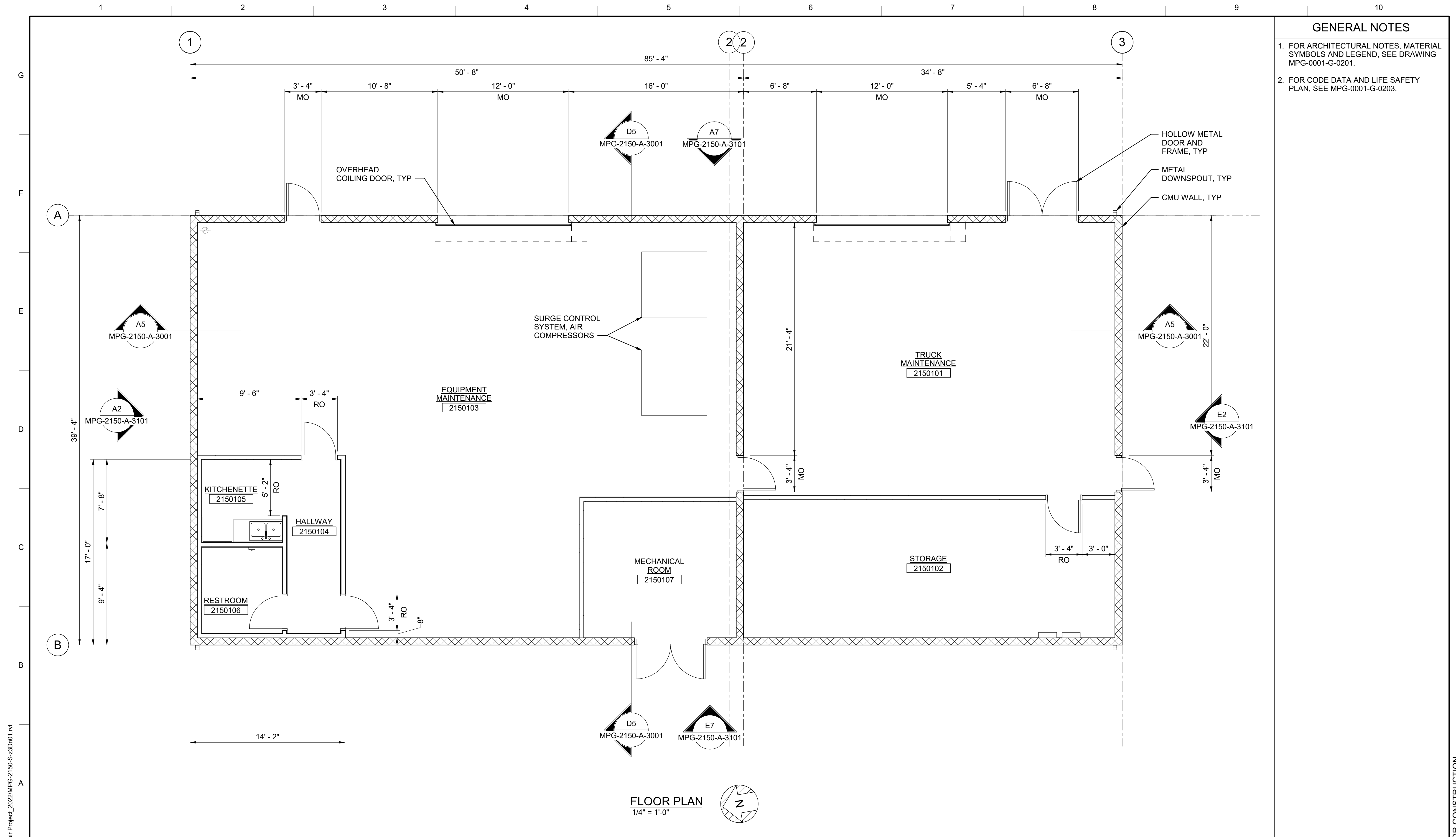
REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 P.E. REG No. 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2150-G-0001  
 SHT 65 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
  - FOR CODE DATA AND LIFE SAFETY PLAN, SEE MPG-0001-G-0203.

**FLOOR PLAN**  
1/4" = 1'-0"

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-S-z3Dn01.rvt  
 10/12/2023 10:31:52 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA

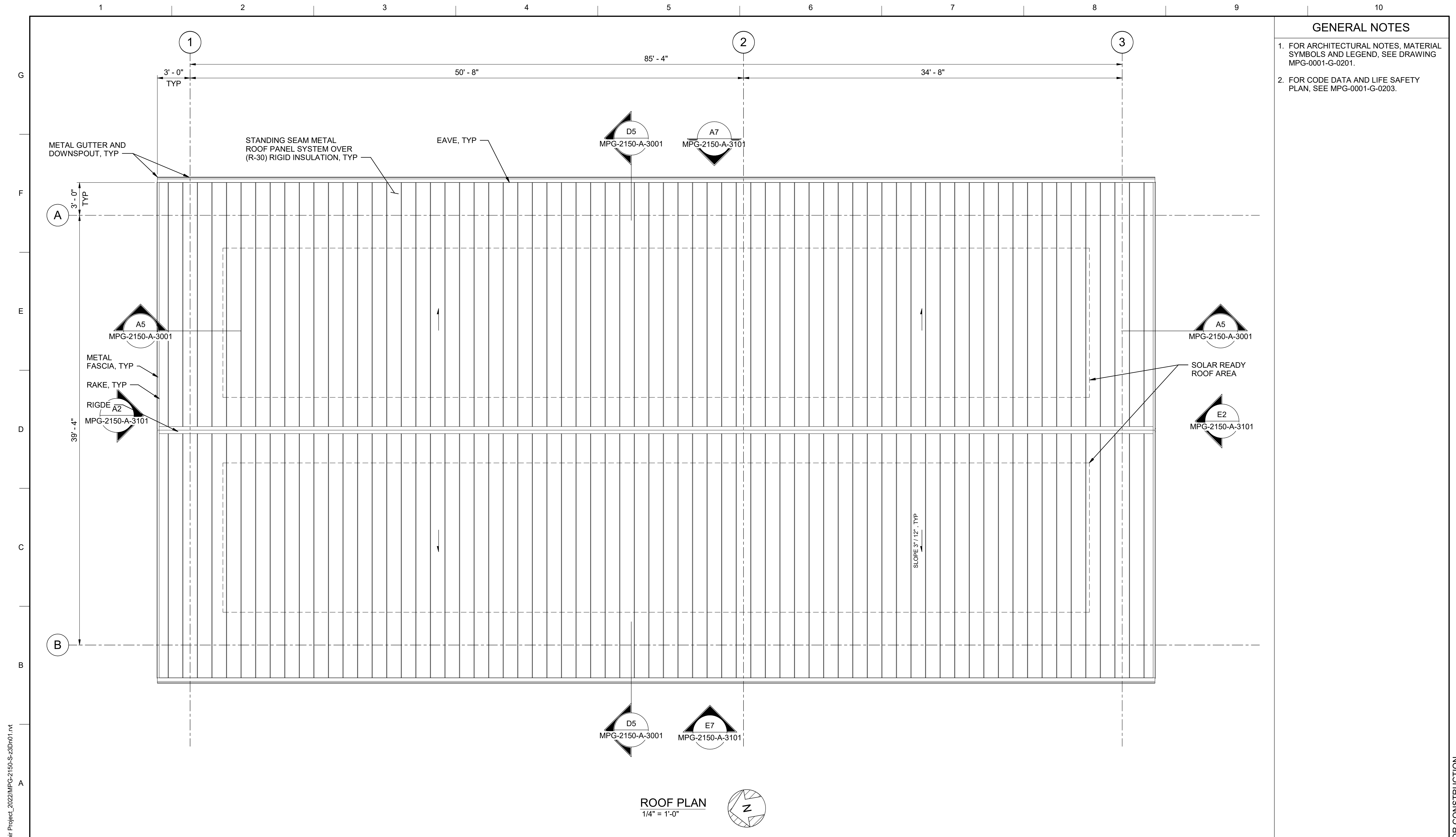


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 FLOOR PLAN

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

DRAWING NO.  
 MPG-2150-A-2001  
 SHT 66 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
  2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE MPG-0001-G-0203.

**ROOF PLAN**  
1/4" = 1'-0"

BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2150-S-z3Dn01.rvt  
9/25/2023 9:01:30 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



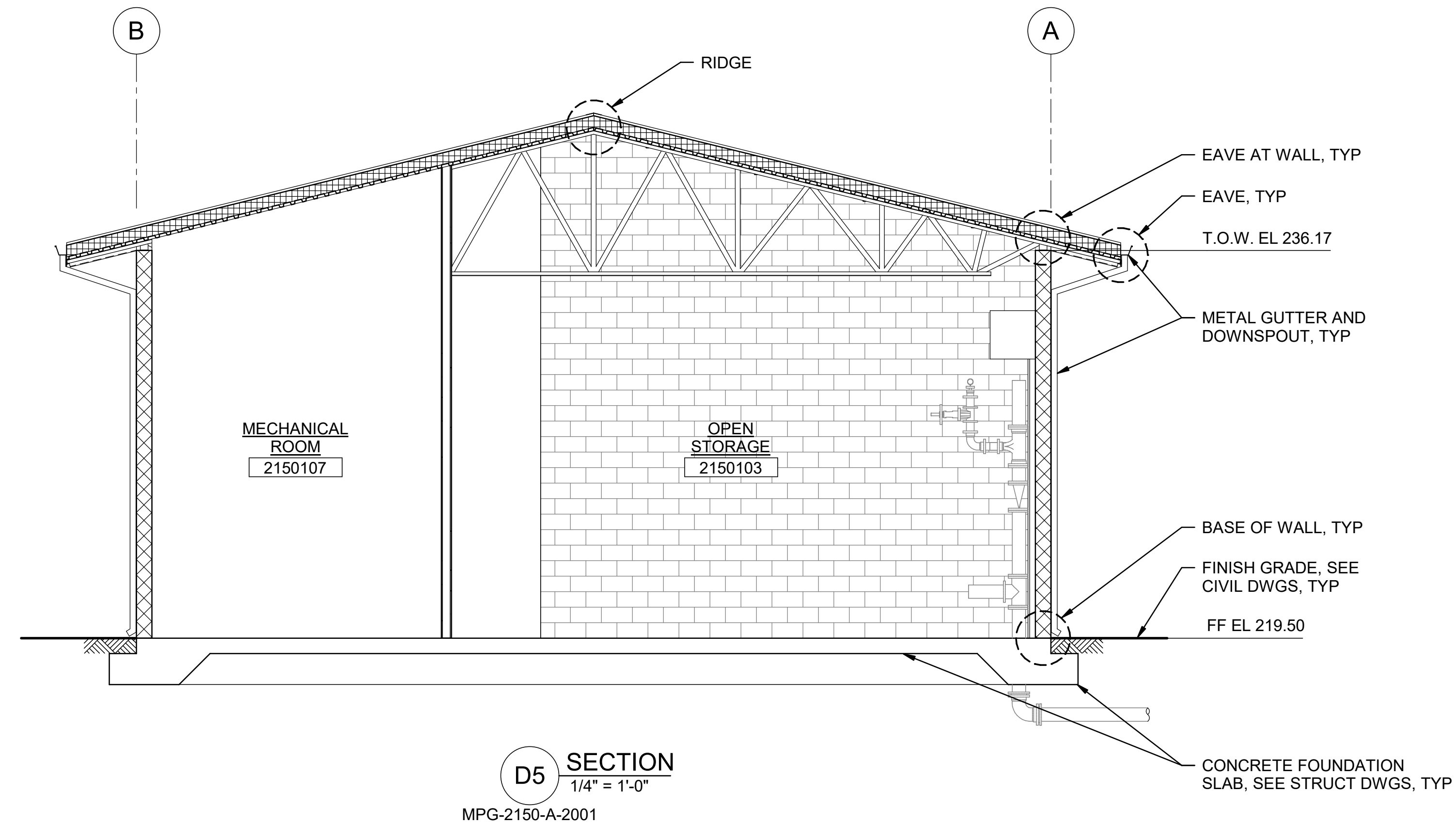
REGISTERED  
LICENSED  
ARCHITECT  
GEOFFREY B KIRSTEN  
L.A. REG No. C-33068  
CALIFORNIA



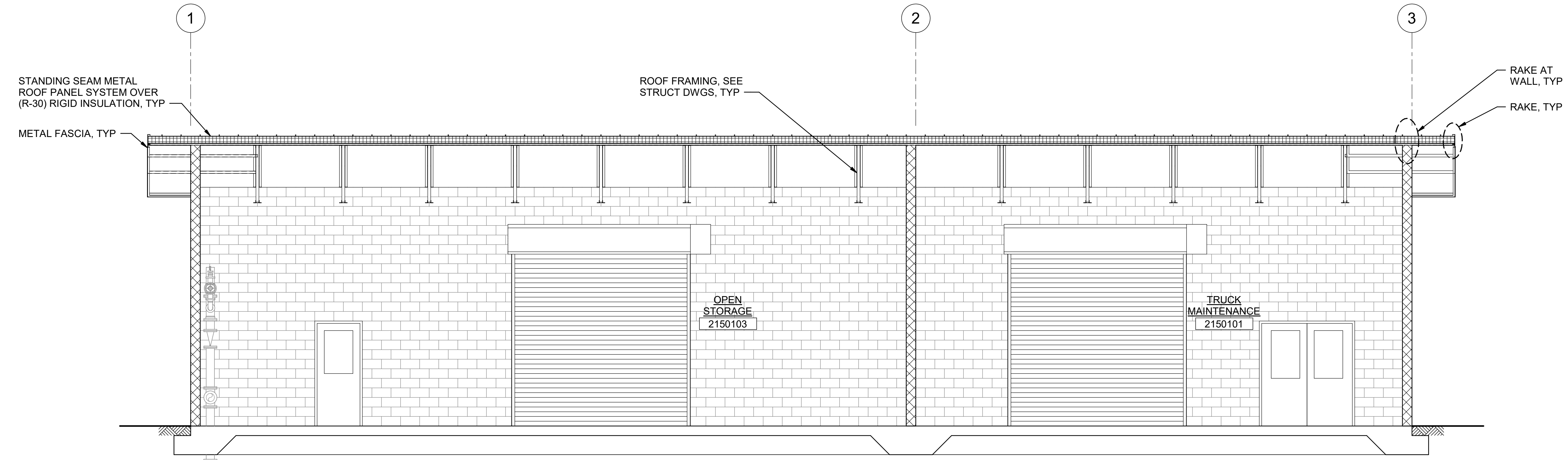
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 ROOF PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2150-A-2201  
 SHT 67 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**D5 SECTION**  
1/4" = 1'-0"  
MPG-2150-A-2001



**A5 SECTION**  
1/4" = 1'-0"  
MPG-2150-A-2001

BIN 360/10333221\_Site Reservoir Project\_2022/MPG-2150-S-z3Dn01.rvt  
9/25/2023 9:01:31 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED LICENSED ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA

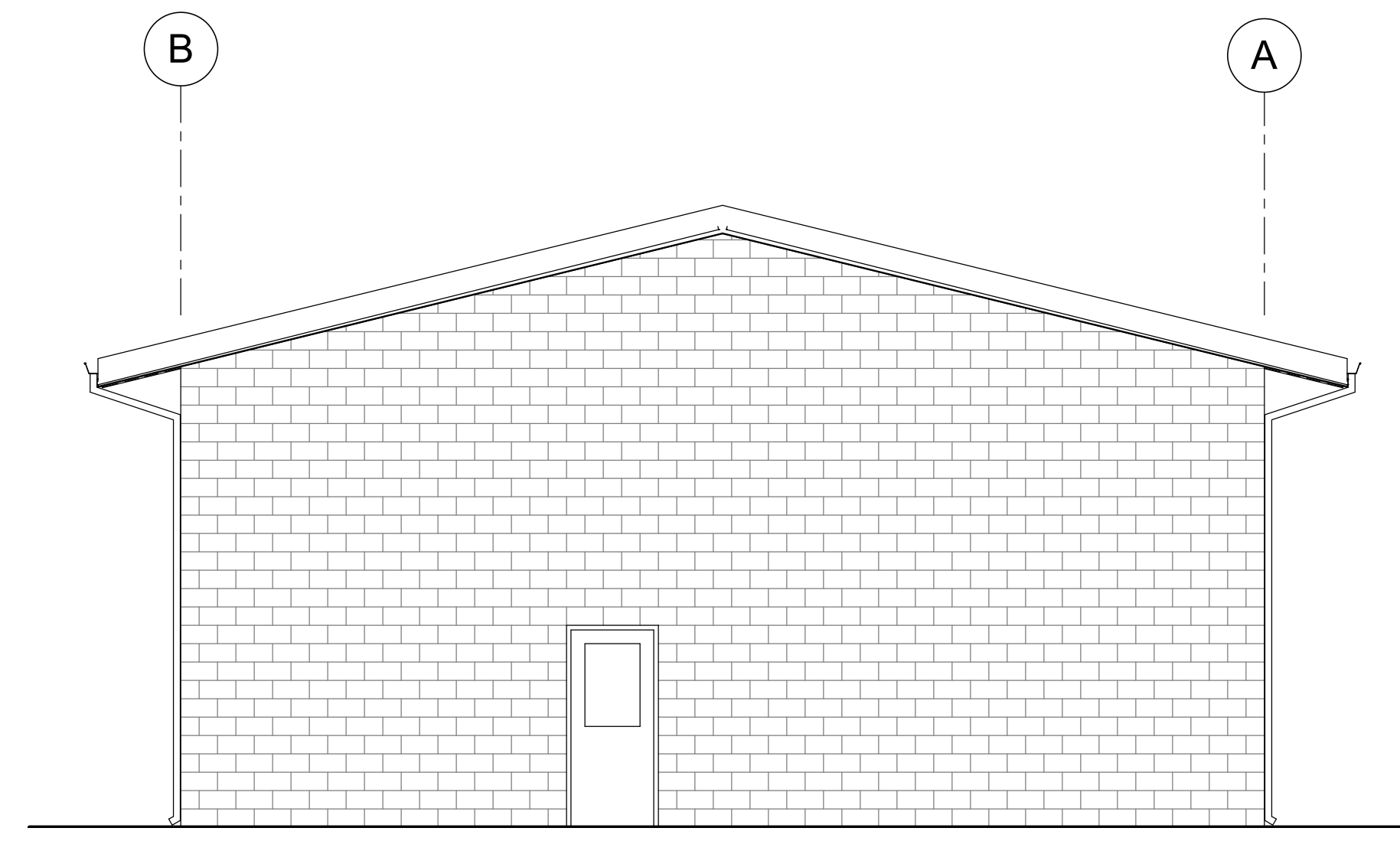


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 SECTIONS

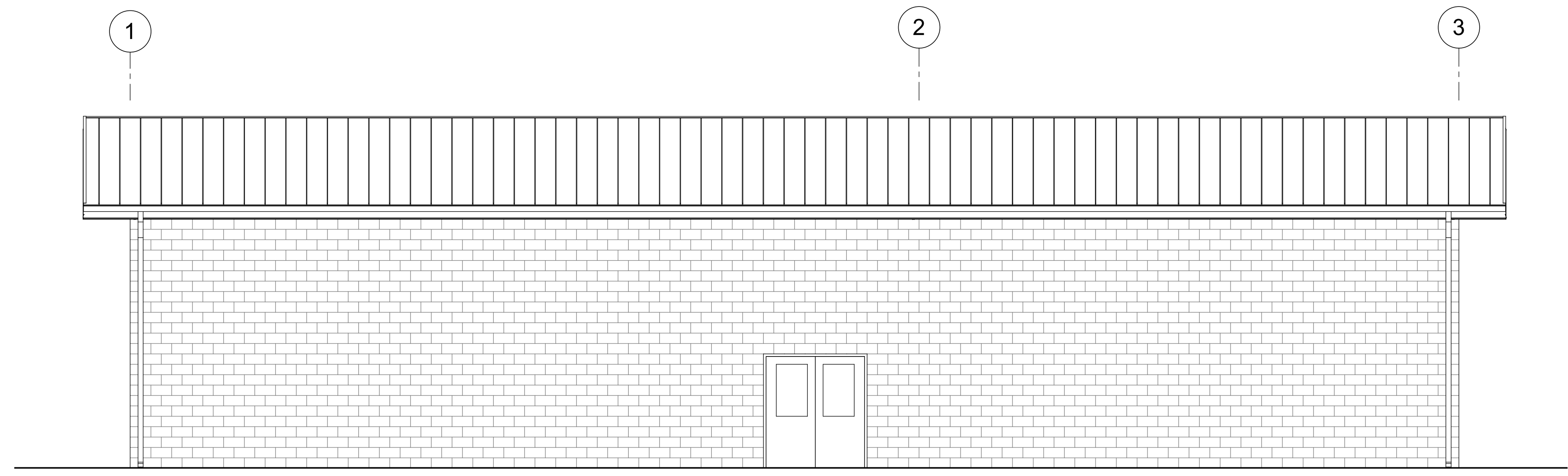
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO. MPG-2150-A-3001  
 SHT 68 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

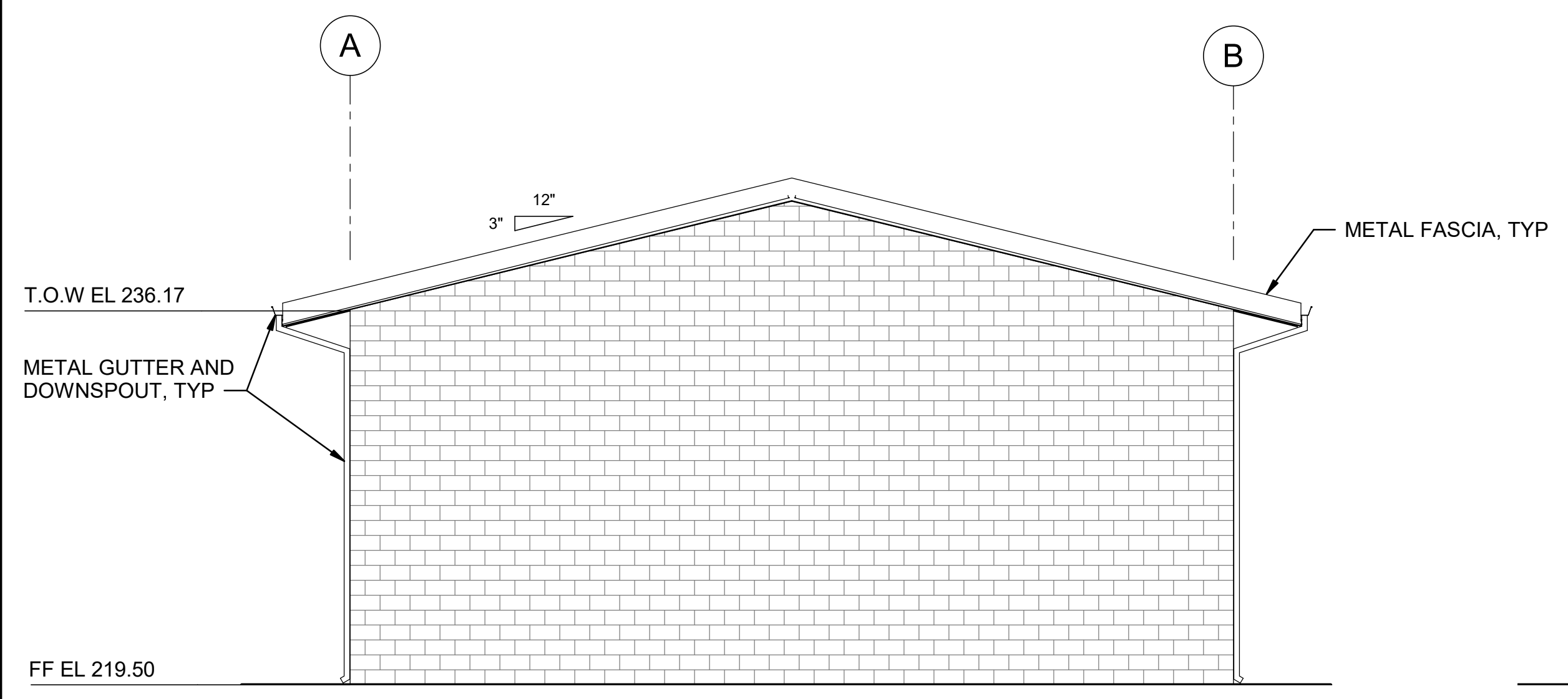
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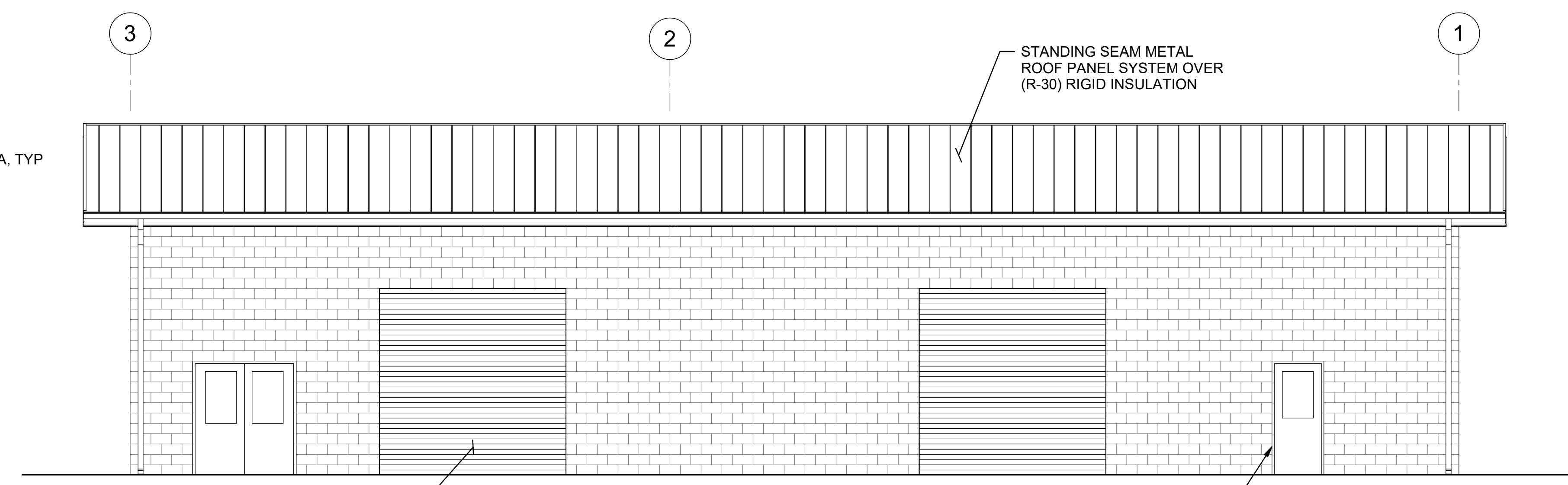
**E2 SOUTH ELEVATION**  
3/16" = 1'-0"  
MPG-2150-A-2001



**E7 WEST ELEVATION**  
3/16" = 1'-0"  
MPG-2150-A-2001



**A2 SOUTH ELEVATION**  
3/16" = 1'-0"  
MPG-2150-A-2001



**A7 WEST ELEVATION**  
3/16" = 1'-0"  
MPG-2150-A-2001

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2150-S-z3Dn01.rvt  
 9/25/2023 9:01:33 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



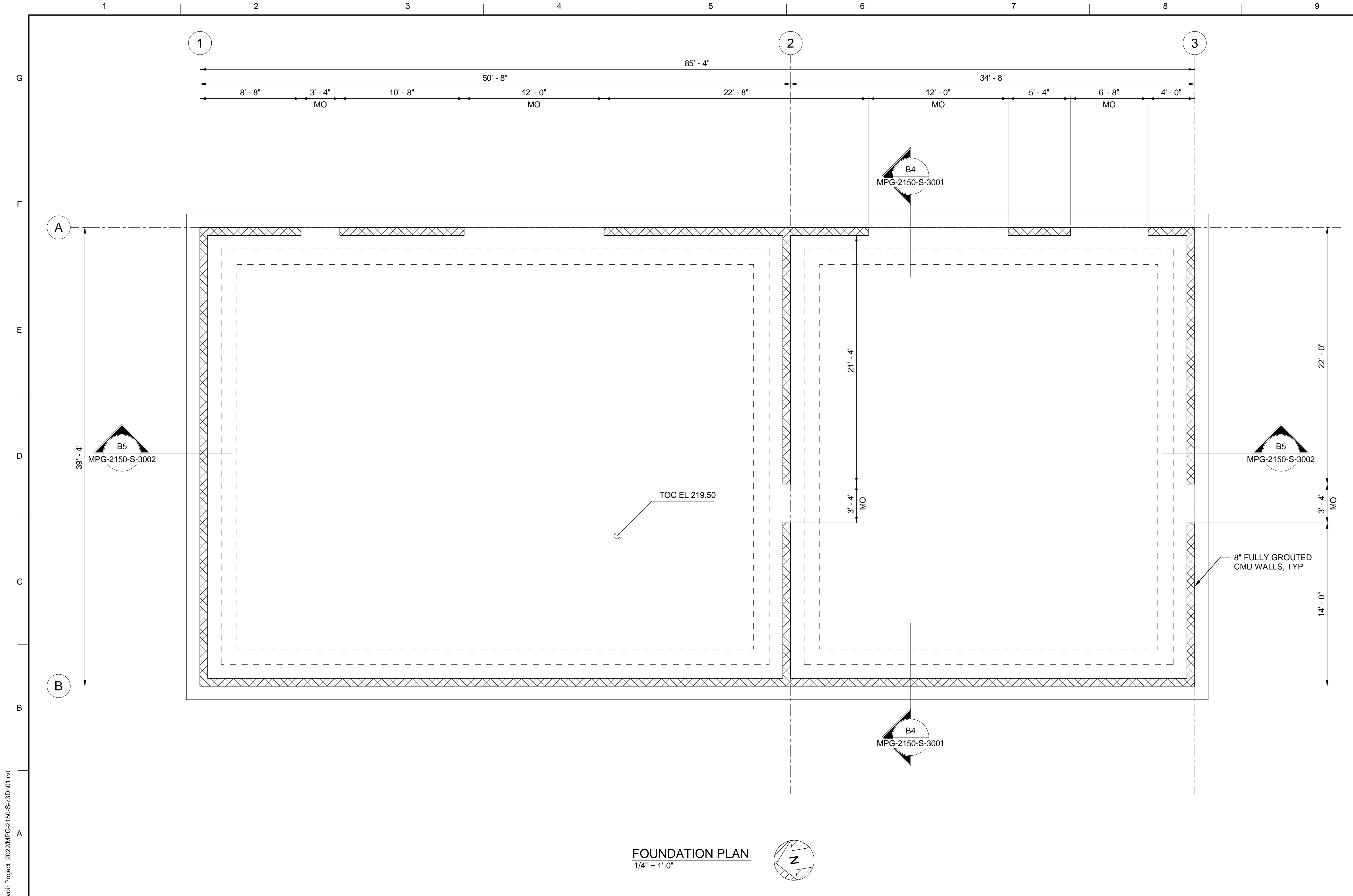
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 EXTERIOR ELEVATIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2150-A-3101  
 SHT 69 OF 176

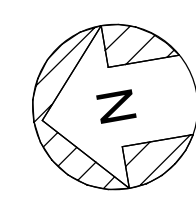
PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
- FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
    - LATERAL FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS
    - RESPONSE MODIFICATION FACTOR, R = 5
    - RISK CATEGORY = II
    - SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0
    - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.134

**SHEET KEY NOTES**

**FOUNDATION PLAN**  
1/4" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-S-3Dn01.rvt  
 31-Aug-23 11:08:29 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

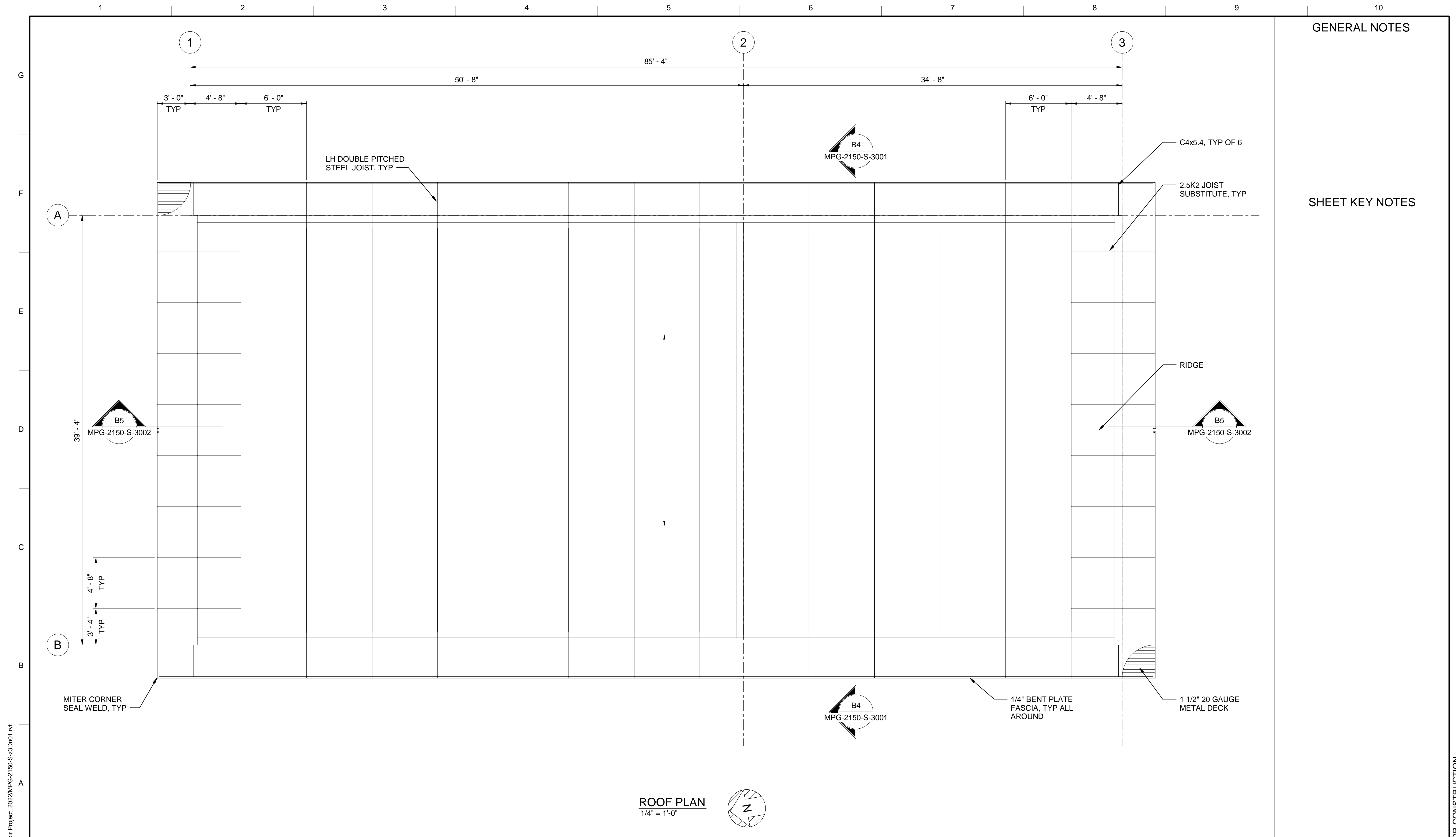


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2150-S-2001  
 SHT 70 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





GENERAL NOTES

SHEET KEY NOTES

ROOF PLAN  
1/4" = 1'-0"

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-S-3Dn01.rvt  
 31-Aug-23 11:08:50 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



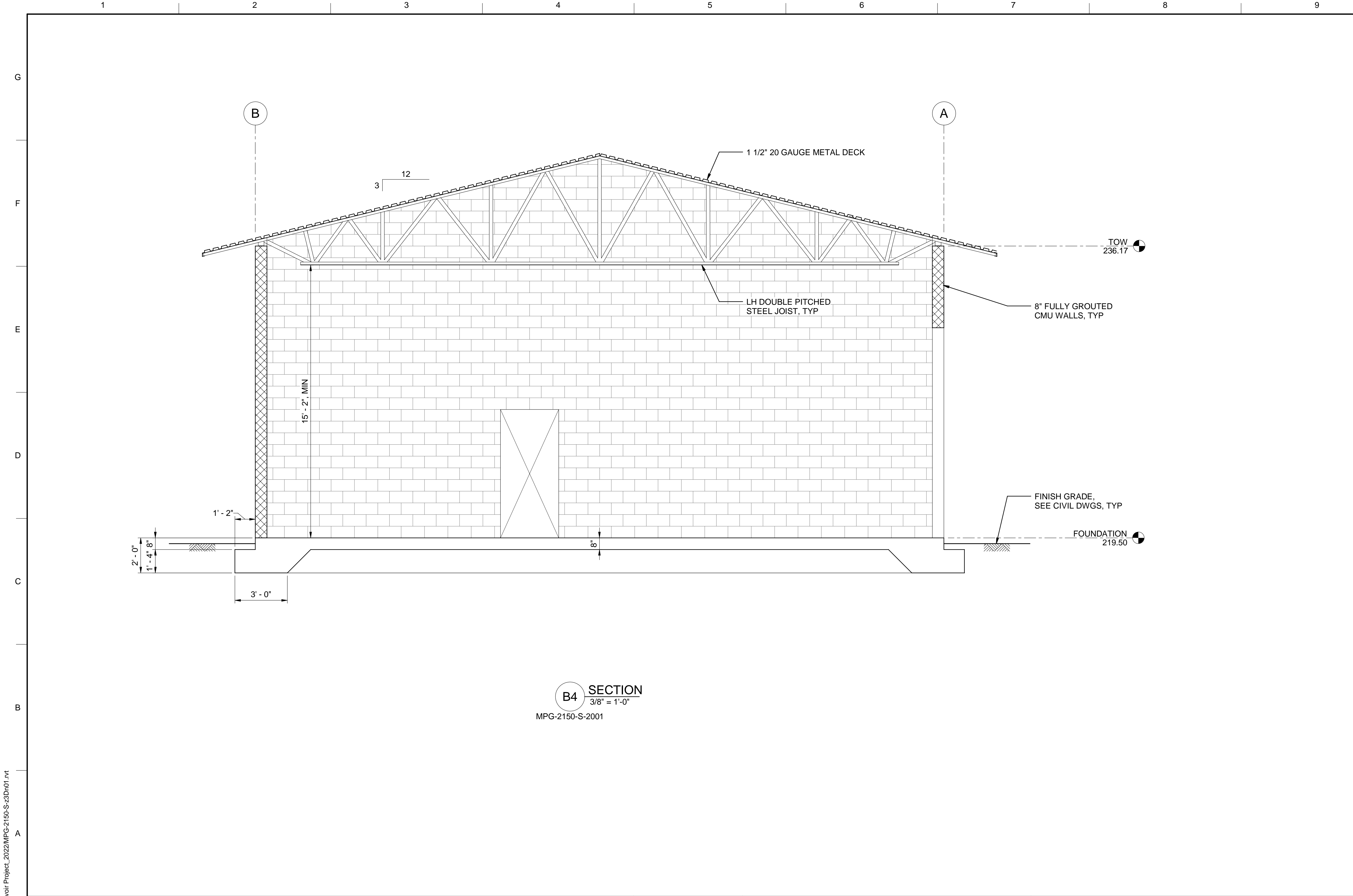
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 ROOF PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2150-S-2101  
 SHT 71 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

**B4 SECTION**  
 3/8" = 1'-0"  
 MPG-2150-S-2001

BIM 360://1033322\_Site Reservoir Project\_2022/MPG-2150-S-33Dn01.rvt  
 31-Aug-23 11:08:56 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:  
L. DARNELL

DRAWN BY:  
K. SCHWALK

CHECKED BY:  
H. HENRIKSON

IN CHARGE:  
P. RUDE

DATE:  
10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

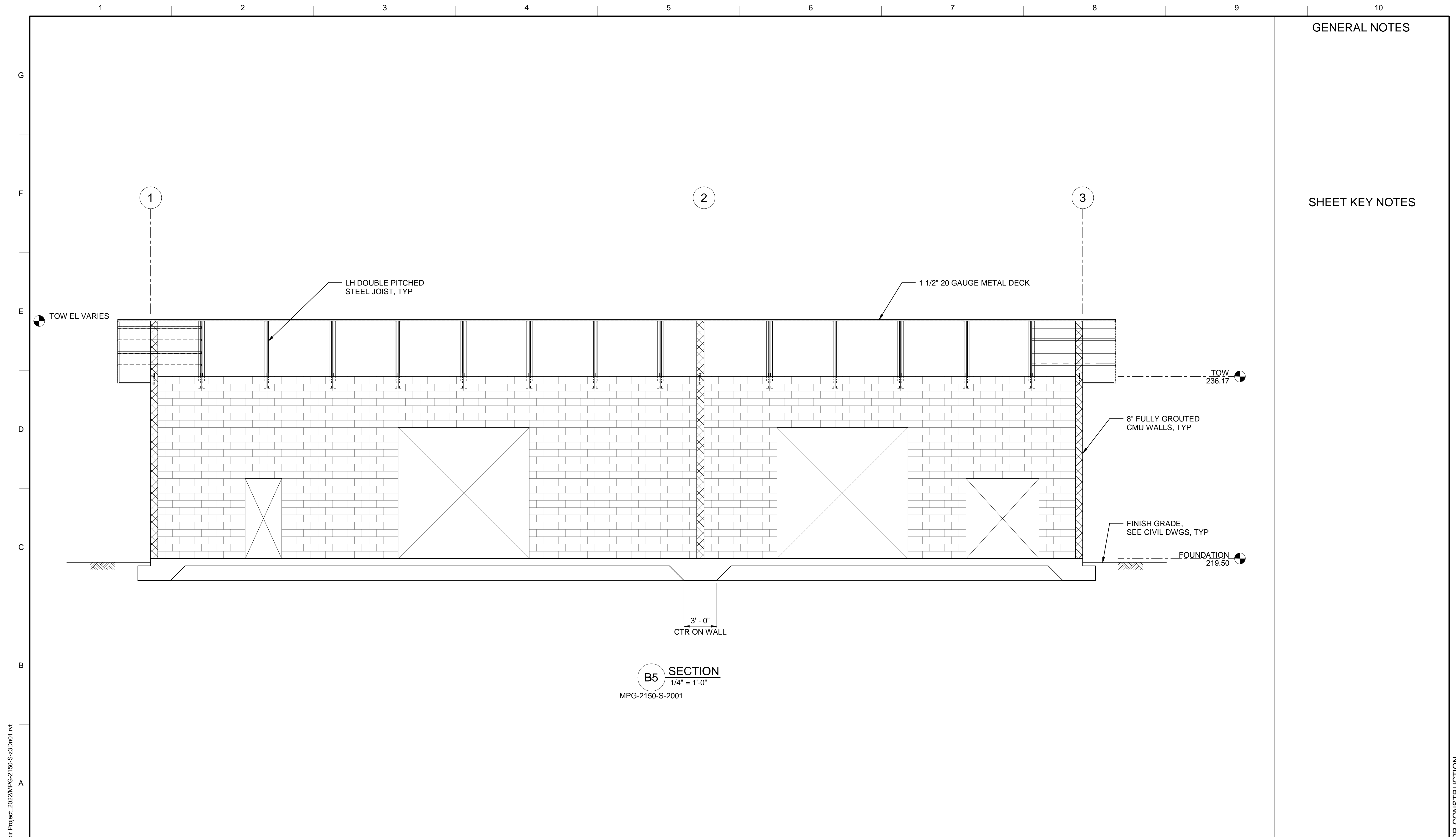


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 SECTION

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

DRAWING NO.  
 MPG-2150-S-3001  
 SHT 72 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-S-23Dn01.rvt  
 31-Aug-23 11:08:59 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



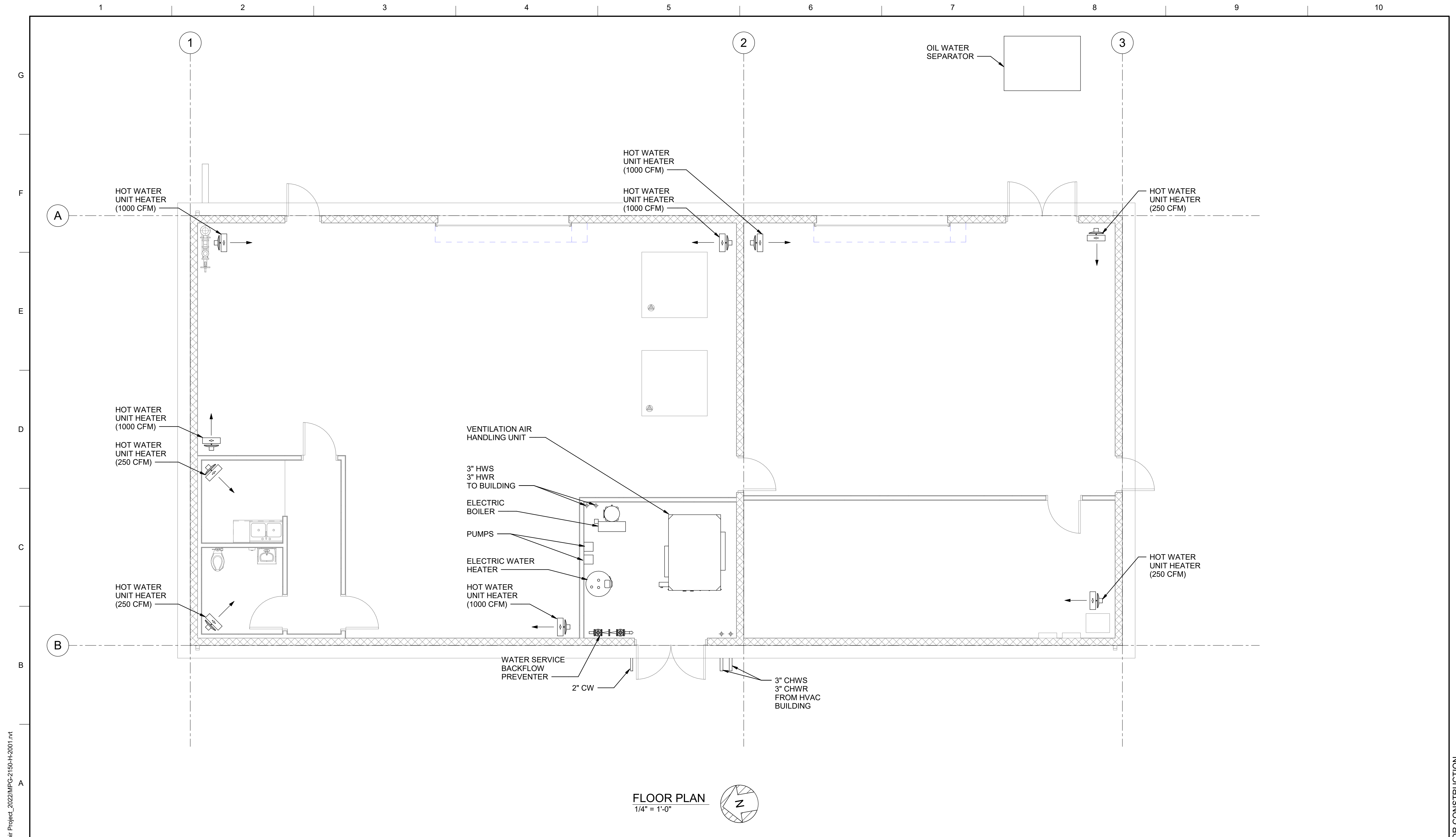
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



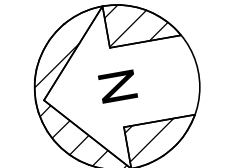
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
**SECTION**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2150-S-3002  
 SHT 73 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



FLOOR PLAN  
1/4" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-H-2001.rvt  
 10/4/2023 7:31:29 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: P. RAUSCH  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



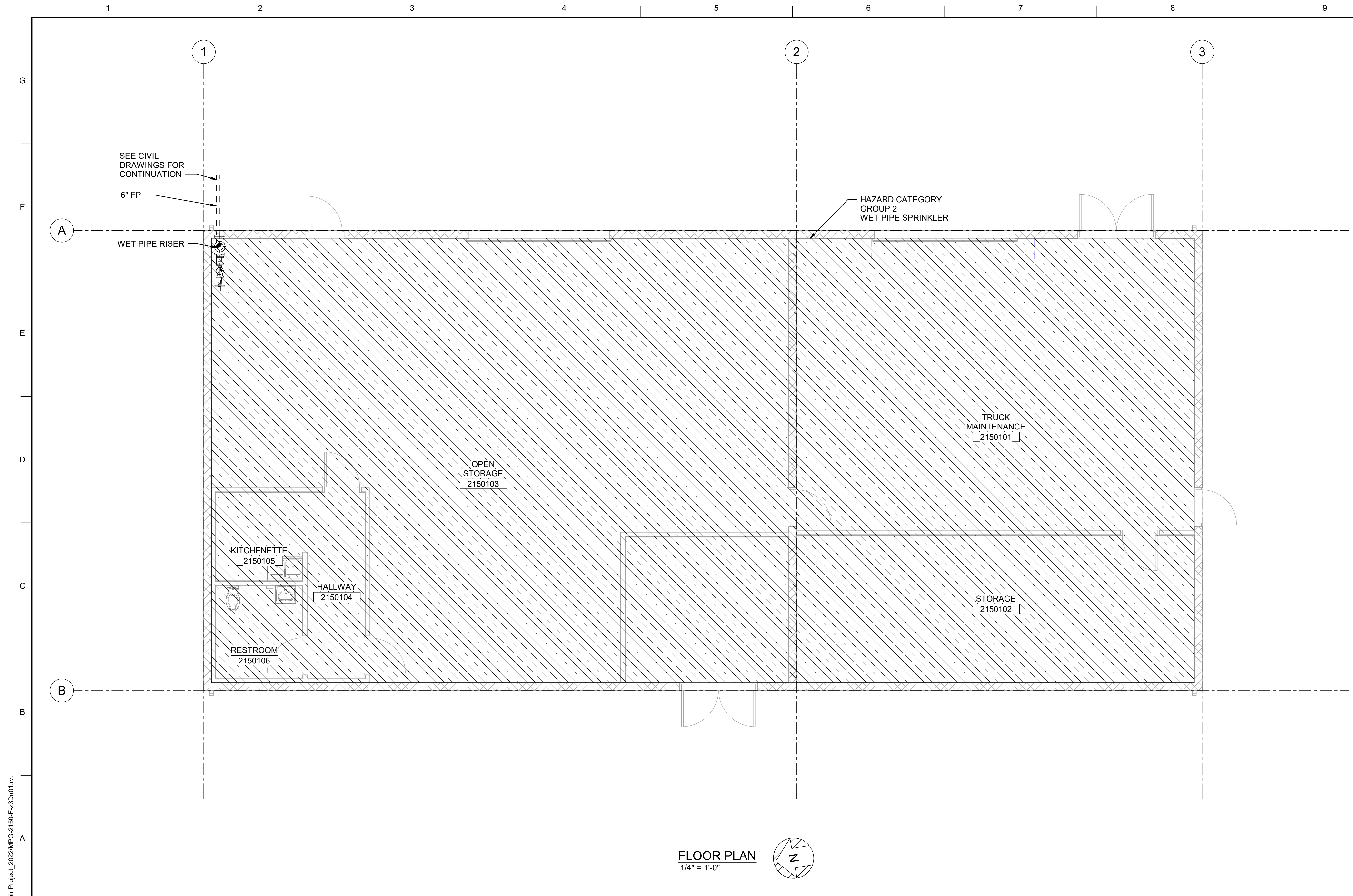
REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 HVAC  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 FLOOR PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2150-H-2001  
 SHT 74 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

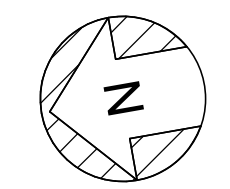


**GENERAL NOTES**

1. FIRE PROTECTION ENGINEER SHALL COORDINATE WITH OWNER THE REQUIREMENTS OF THE OWNERS CERTIFICATE AS DESCRIBED IN NFPA 13 4.2 (2022).

**SHEET KEY NOTES**

**FLOOR PLAN**  
1/4" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-F-z3Dn01.rvt  
 9/25/2023 8:19:32 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: J. CUTZ  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 TED J. PRICE  
 P.E. REG No. 36413  
 CALIFORNIA



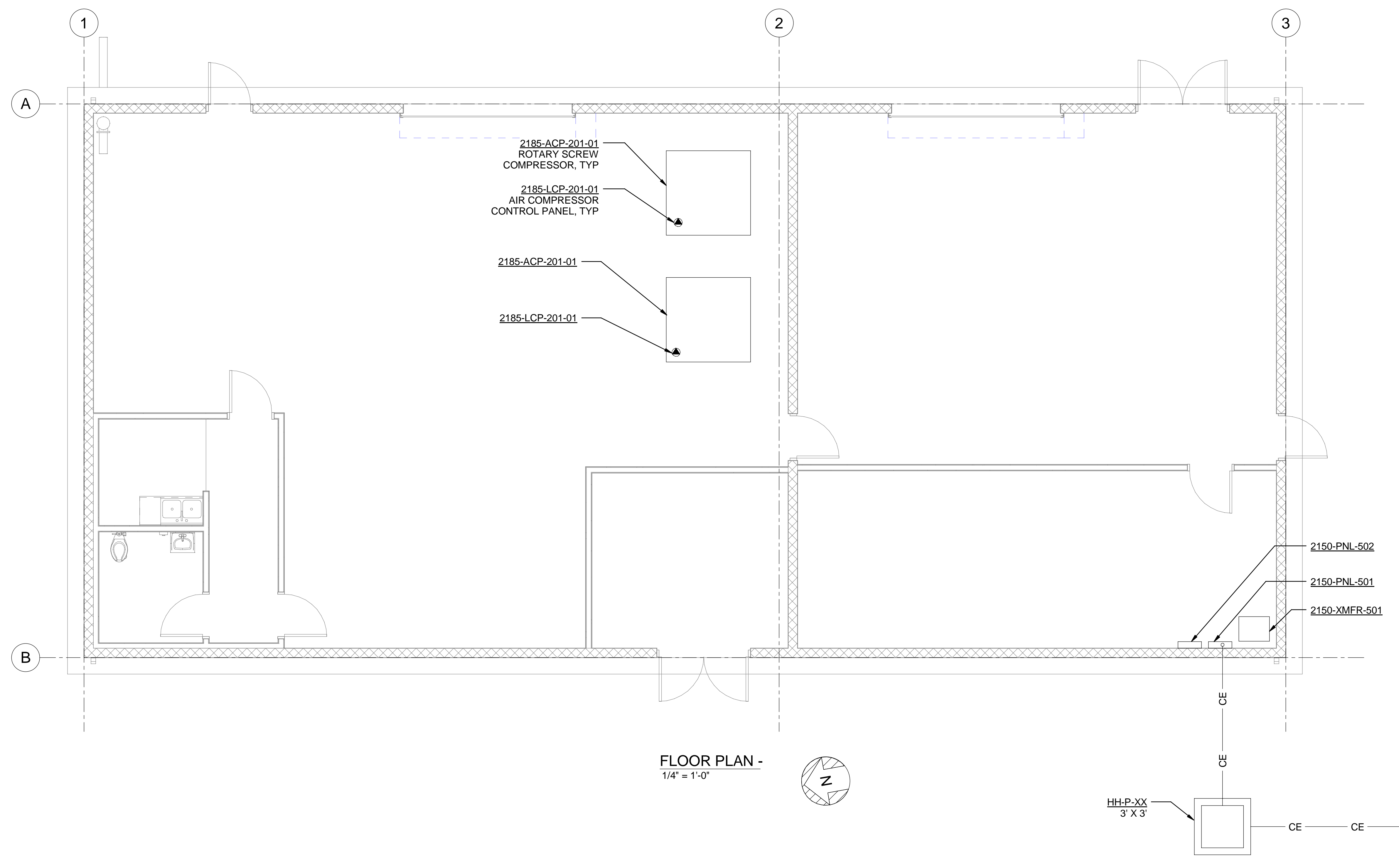
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 FIRE PROTECTION  
 FUNKS RESERVOIR  
 MAINTENANCE AND STORAGE BUILDING  
 FLOOR PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 1"  
 DRAWING NO.  
 MPG-2150-F-2001  
 SHT 75 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES

SHEET KEY NOTES



FLOOR PLAN -  
1/4" = 1'-0"

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2150-E-z3Dn01.rvt  
 10/13/2023 2:12:55 PM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: C.CUSWORTH  
 DRAWN BY: R. SHARMA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

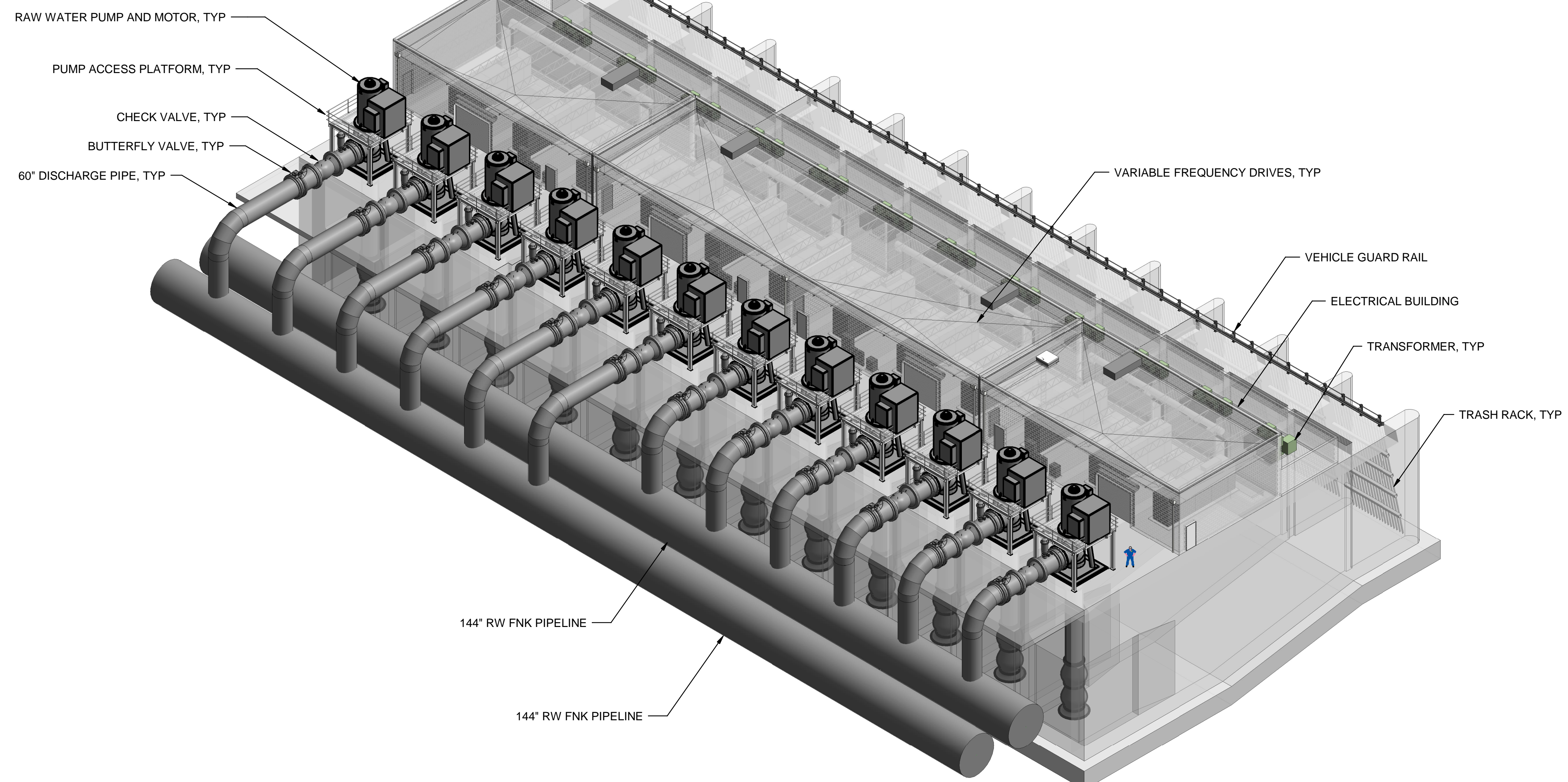
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 ELECTRICAL  
 FUNKS RESERVOIR  
 MAINTENANCE & STORAGE  
 PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2150-E-2001  
 SHT 76 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - PUMPING PLANT

BIM 360://1033322\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
 10/13/2023 2:31:20 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: K. PARIS  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 KERILYN PARIS  
 P.E. REG No. 87908  
 CALIFORNIA

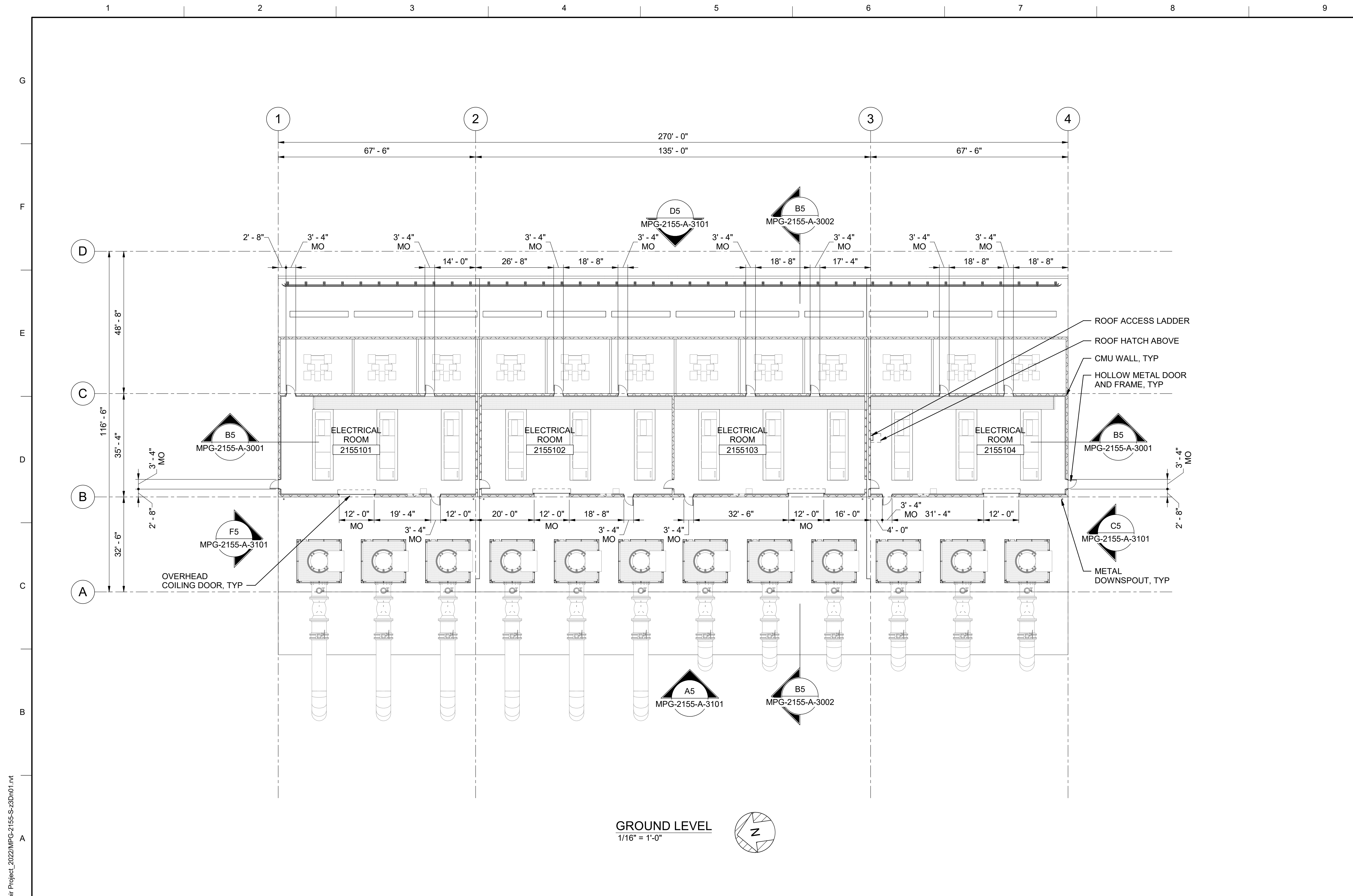


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL FUNKS RESERVOIR  
 PUMPING PLANT  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 0 1"  
 DRAWING NO. MPG-2155-G-0001  
 SHT 77 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
  - FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0204.

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-z3Dn01.rvt  
 9/25/2023 11:46:12 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 FLOOR PLAN - OVERALL

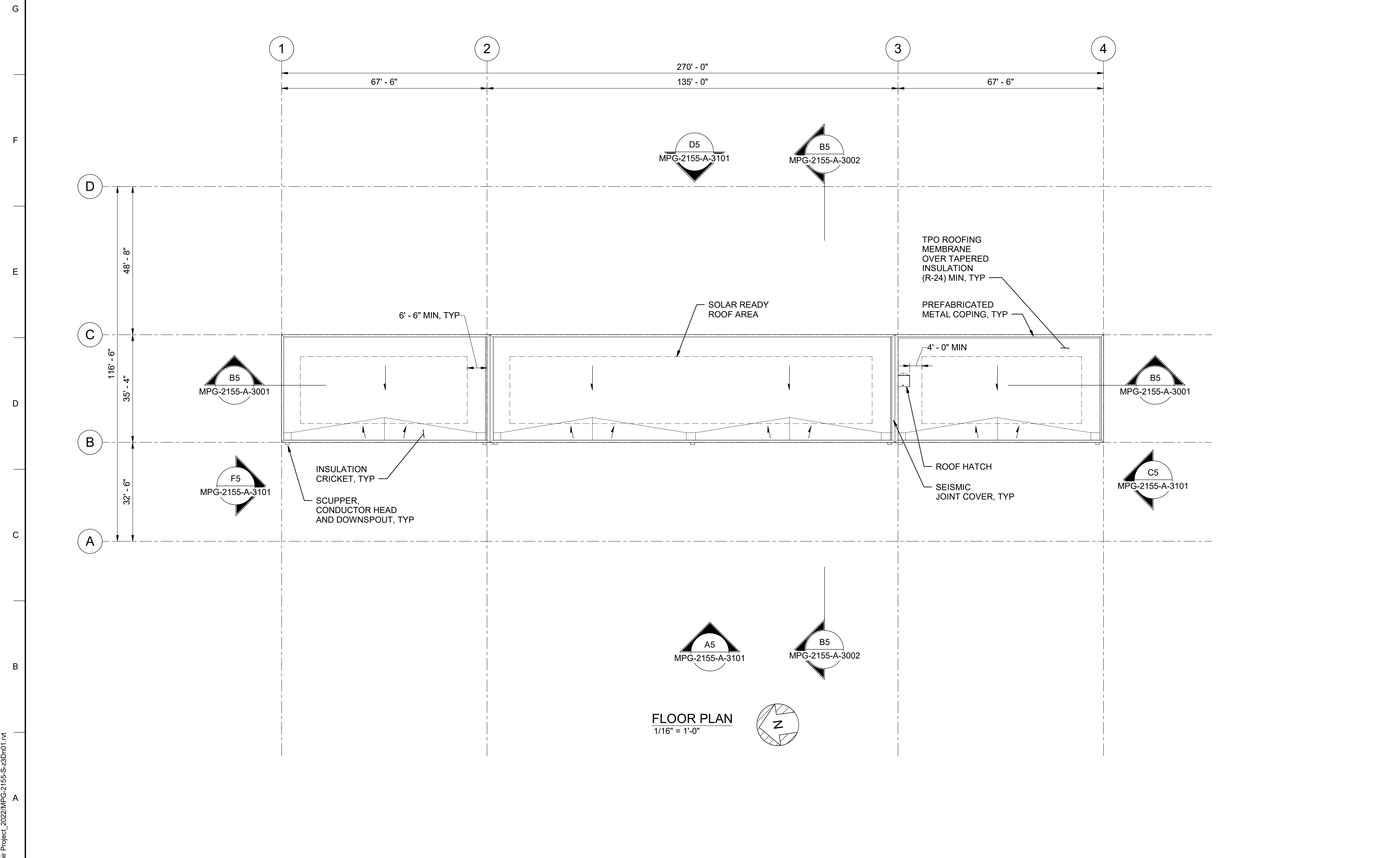
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2155-A-2000  
 SHT 78 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

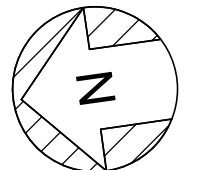


**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0204.



**FLOOR PLAN**  
1/16" = 1'-0"



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-z3Dn01.rvt  
 9/25/2023 11:46:13 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: **M. KIRKPATRICK**  
 DRAWN BY: **M. COLLINS**  
 CHECKED BY: **G. KIRSTEN**  
 IN CHARGE: **P. RUDE**  
 DATE: **10-17-2023**



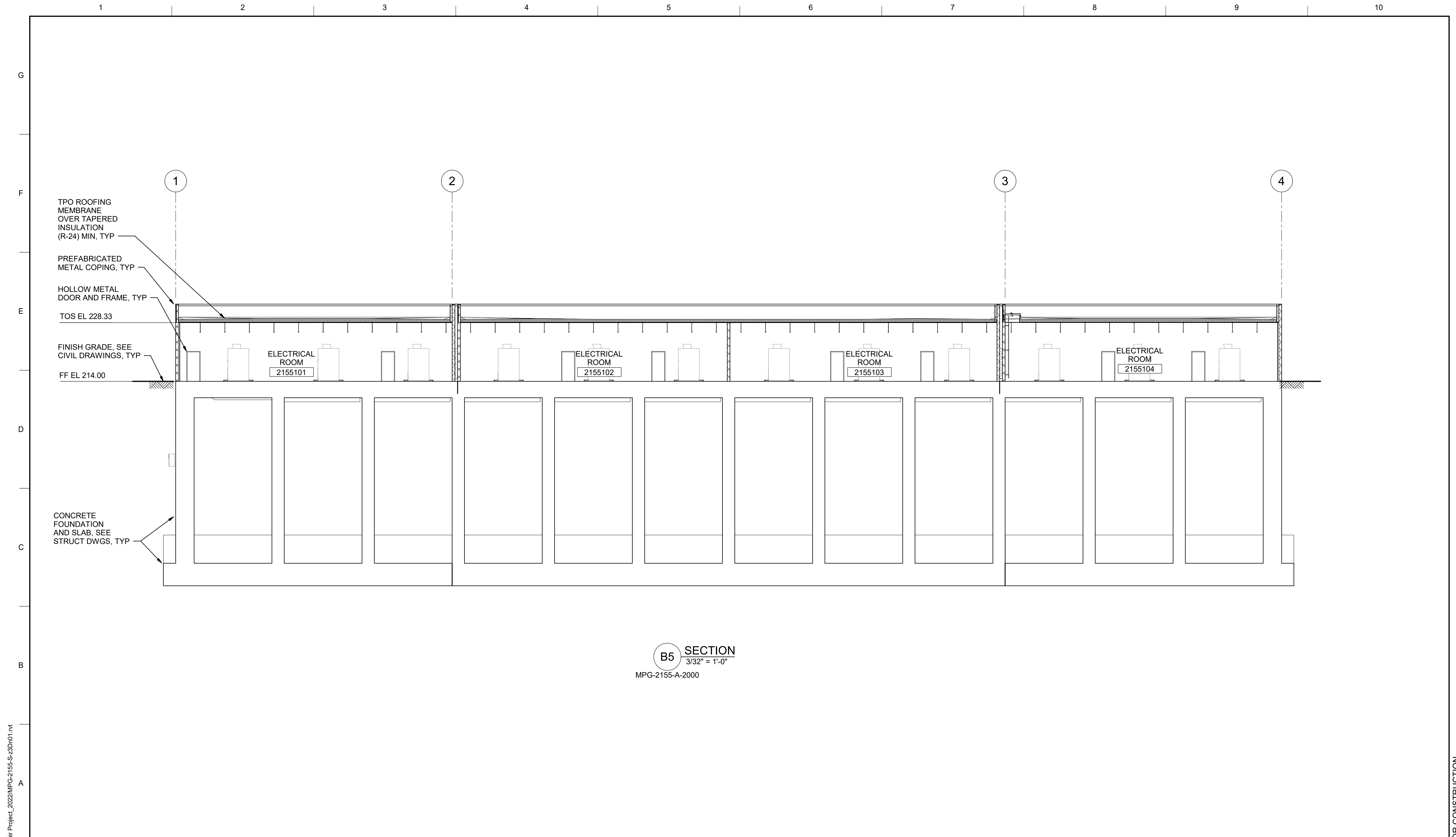
REGISTERED  
 LICENSED  
 ARCHITECT  
**GEOFFREY B KIRSTEN**  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
**MAXWELL / SITES PUMPING AND GENERATING**  
**ARCHITECTURAL**  
**FUNKS RESERVOIR**  
**PUMPING PLANT**  
**ROOF PLAN - OVERALL**

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
**MPG-2155-A-2100**  
 SHT 79 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**B5 SECTION**  
 3/32" = 1'-0"  
 MPG-2155-A-2000

BIM 360//1033322\_Site Reservoir Project\_2022/MPG-2155-S-z3Dn01.rvt  
 9/25/2023 11:46:14 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: **M. KIRKPATRICK**  
 DRAWN BY: **M. COLLINS**  
 CHECKED BY: **G. KIRSTEN**  
 IN CHARGE: **P. RUDE**  
 DATE: **10-17-2023**



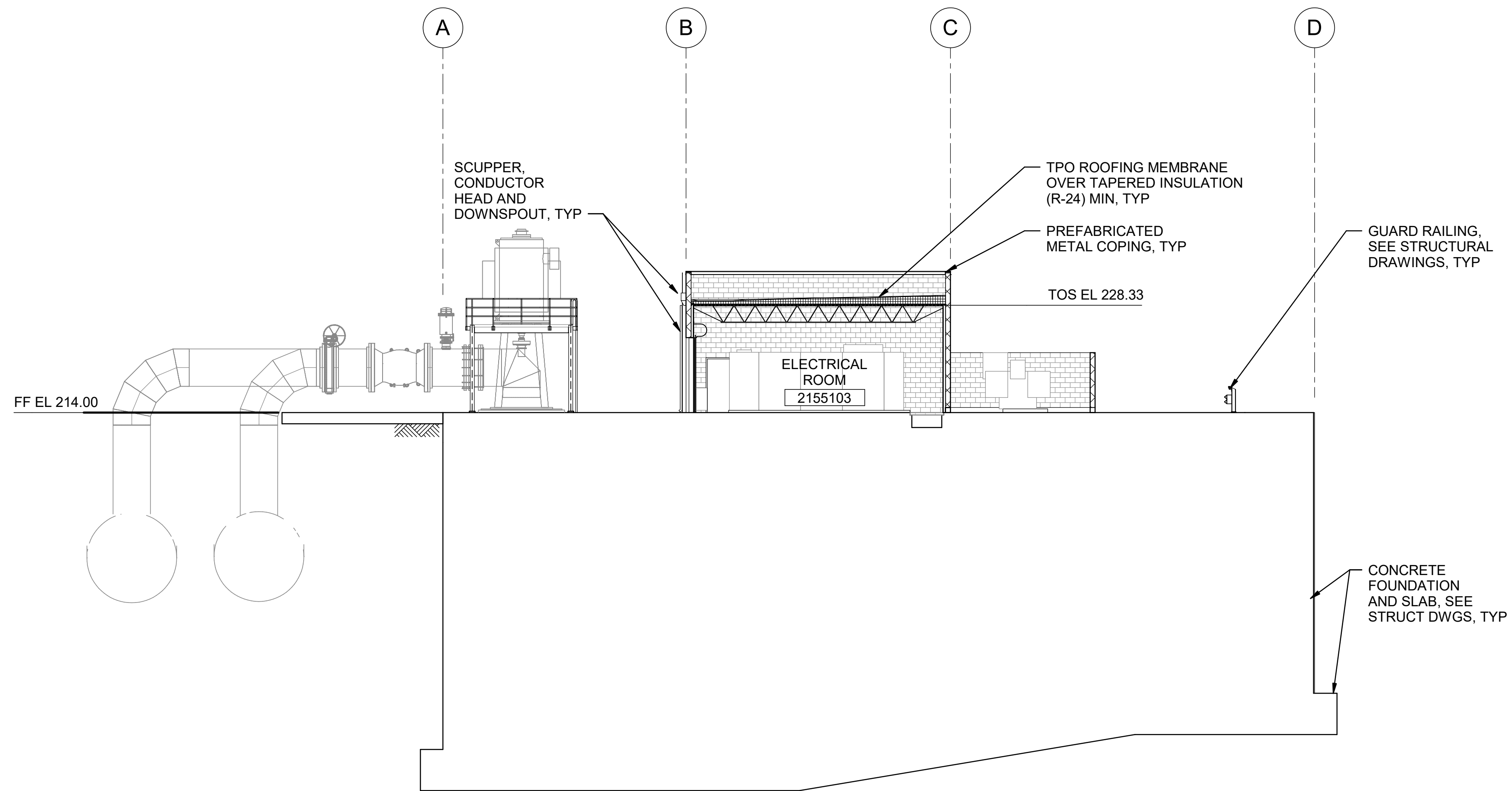
REGISTERED  
 LICENSED  
 ARCHITECT  
**GEOFFREY B KIRSTEN**  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 SECTIONS

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2155-A-3001  
 SHT 80 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**B5 SECTION**  
3/32" = 1'-0"  
MPG-2155-A-2000

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-3Dn01.rvt  
 9/25/2023 11:46:15 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: **M. KIRKPATRICK**  
 DRAWN BY: **M. COLLINS**  
 CHECKED BY: **G. KIRSTEN**  
 IN CHARGE: **P. RUDE**  
 DATE: **10-17-2023**



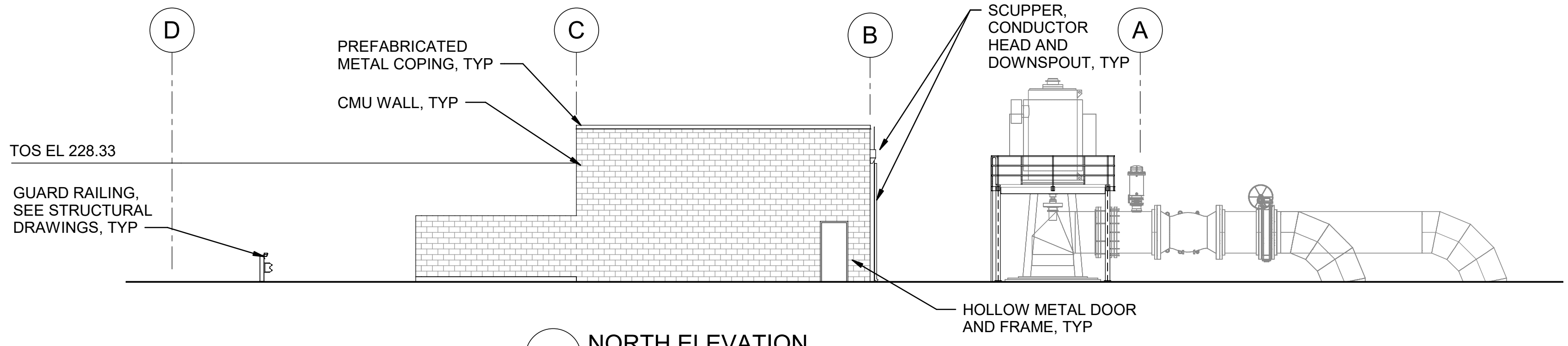
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



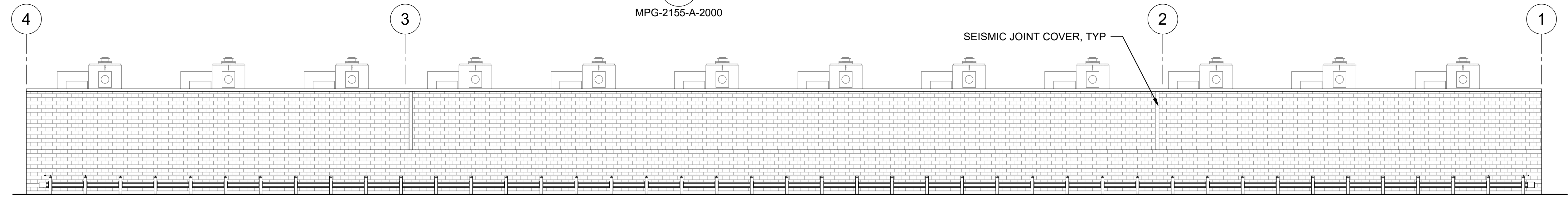
**SITES RESERVOIR**  
**MAXWELL / SITES PUMPING AND GENERATING**  
**ARCHITECTURAL**  
**FUNKS RESERVOIR**  
**PUMPING PLANT**  
**SECTIONS**

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2155-A-3002  
 SHT 81 OF 176

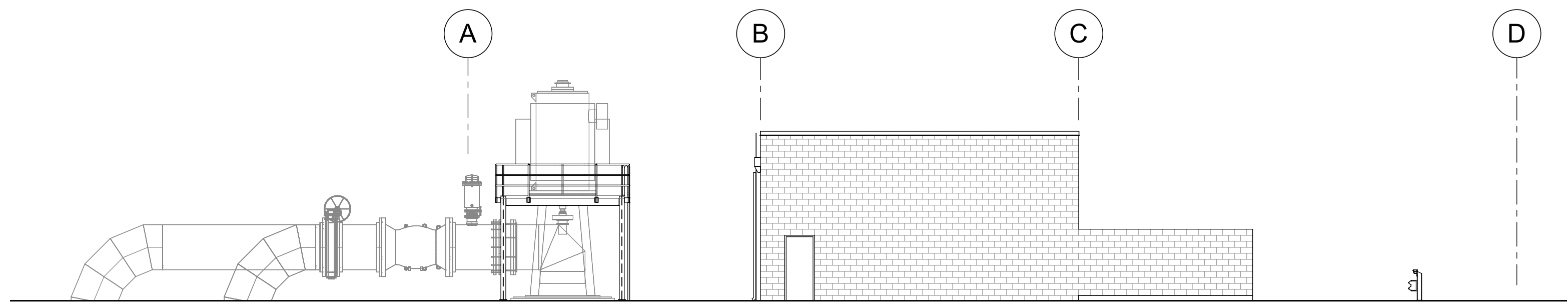
PRELIMINARY - NOT FOR CONSTRUCTION



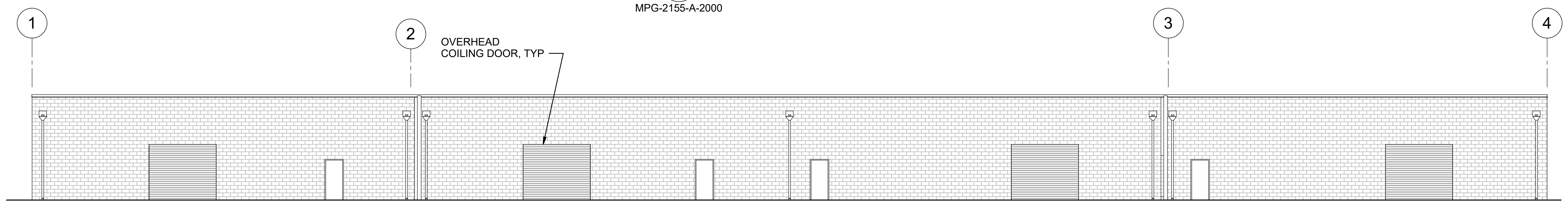
**F5 NORTH ELEVATION**  
3/32" = 1'-0"  
MPG-2155-A-2000



**D5 EAST ELEVATION**  
3/32" = 1'-0"  
MPG-2155-A-2000



**C5 SOUTH ELEVATION**  
3/32" = 1'-0"  
MPG-2155-A-2000



**A5 WEST ELEVATION**  
3/32" = 1'-0"  
MPG-2155-A-2000

BIN 360/10333221\_Site Reservoir Project\_2022/MPG-2155-S-3Dn01.rvt  
9/25/2023 11:46:18 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

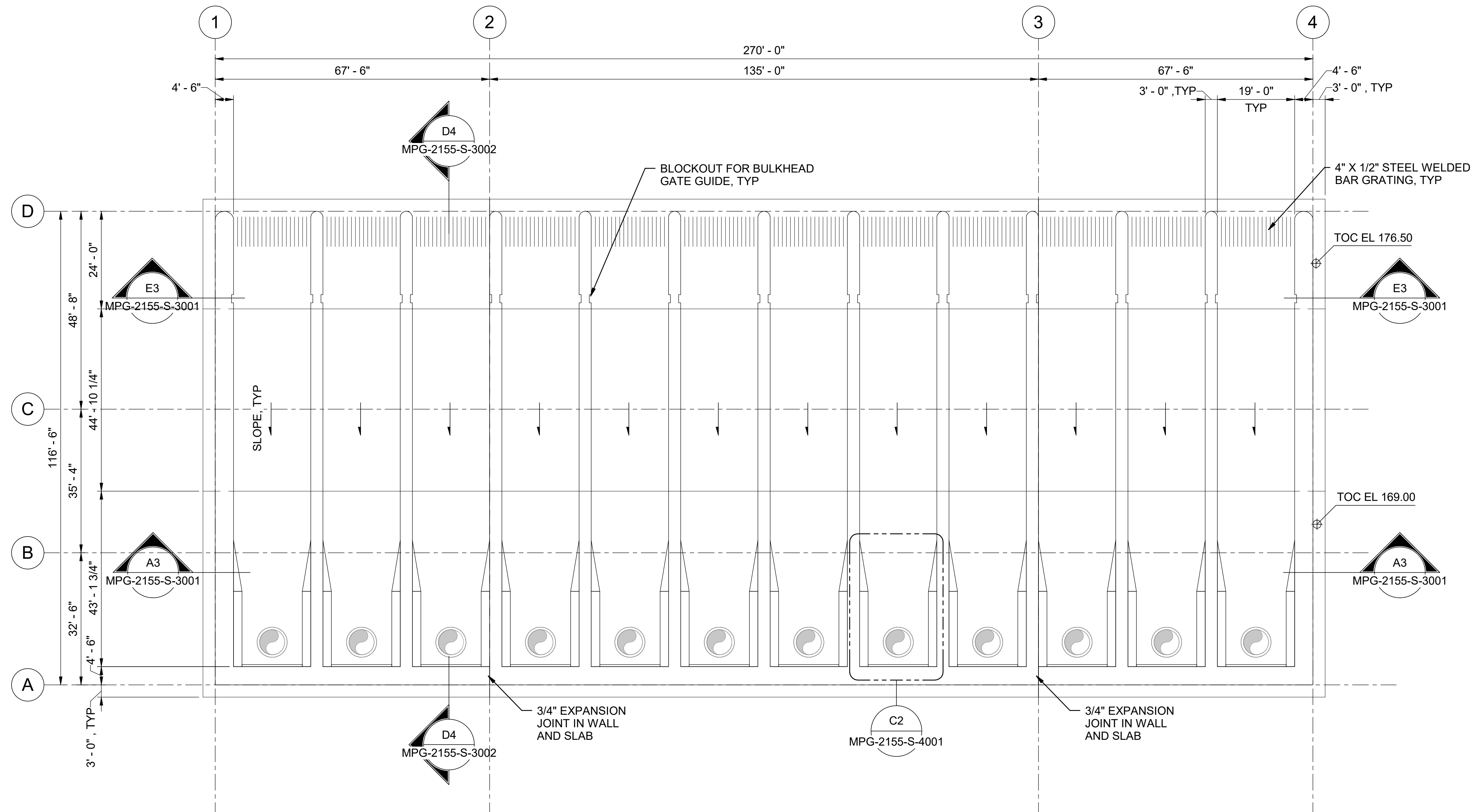
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



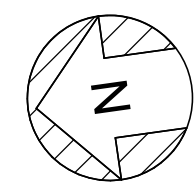
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 EXTERIOR ELEVATIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2155-A-3101  
 SHT 82 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**FOUNDATION PLAN**  
1/16" = 1'-0"



**GENERAL NOTES**

1. FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
  - A. LATERAL FORCE RESISTING SYSTEM:
    - ELECTRICAL BUILDING: SPECIAL REINFORCED MASONRY SHEAR WALLS
    - PUMP STATION: FLAT-BOTTOM GROUND-SUPPORTED TANK WITH REINFORCED CONCRETE NONSLIDING BASE
  - B. RESPONSE MODIFICATION FACTOR, R:
    - ELECTRICAL BUILDING = 5
    - PUMP STATION = 2
  - C. RISK CATEGORY = II
  - D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0
  - E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub>:
    - ELECTRICAL BUILDING = 0.135
    - PUMP STATION = 0.337

**SHEET KEY NOTES**

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-z3Dn01.rvt  
 9/19/2023 9:22:37 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: F. GARBEN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 FOUNDATION PLAN

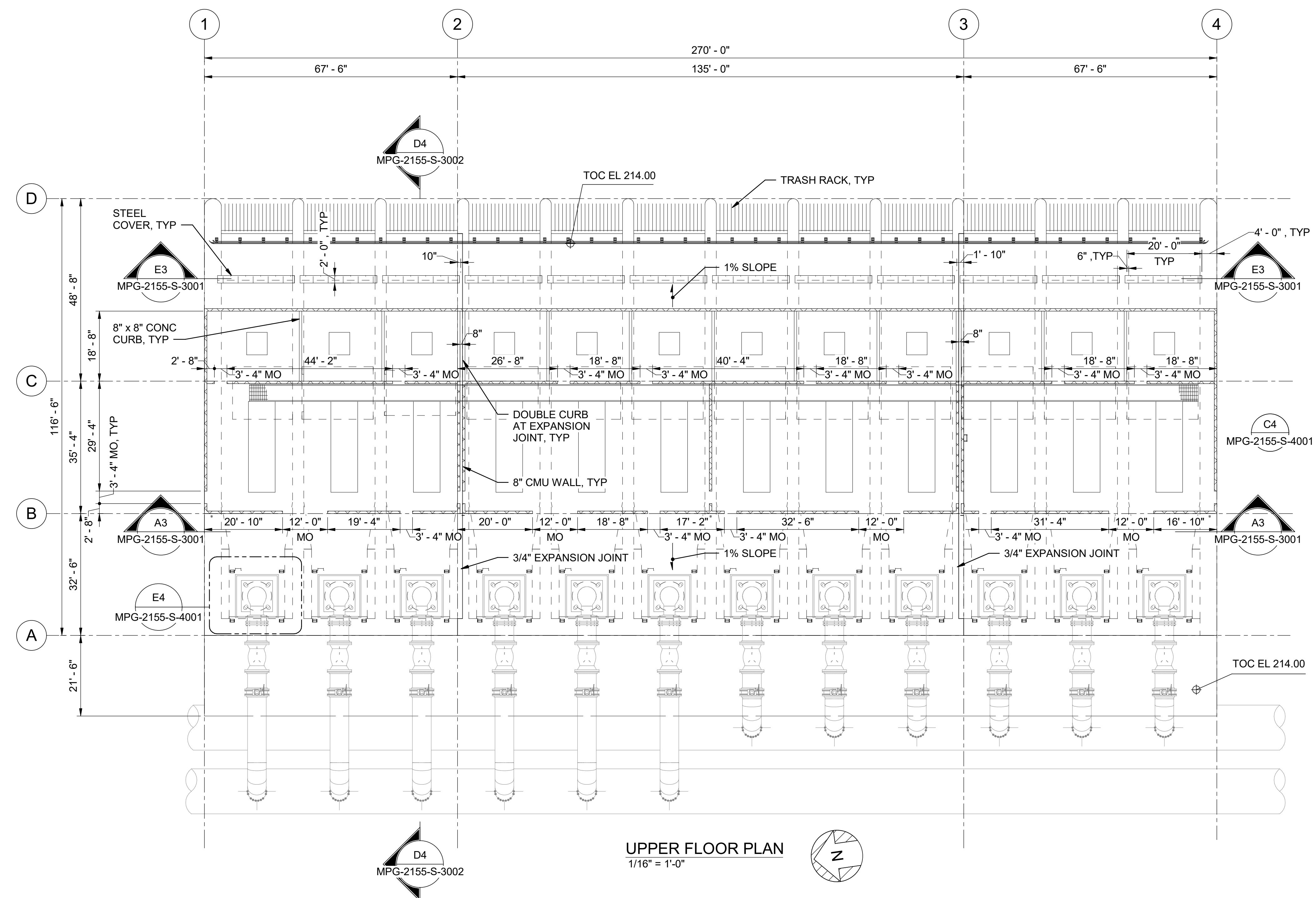
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 DRAWING NO.  
 MPG-2155-S-2000  
 SHT 83 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES

SHEET KEY NOTES



**UPPER FLOOR PLAN**  
1/16" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-3Dn01.rvt  
 9/19/2023 9:22:38 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: F. GARBIN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

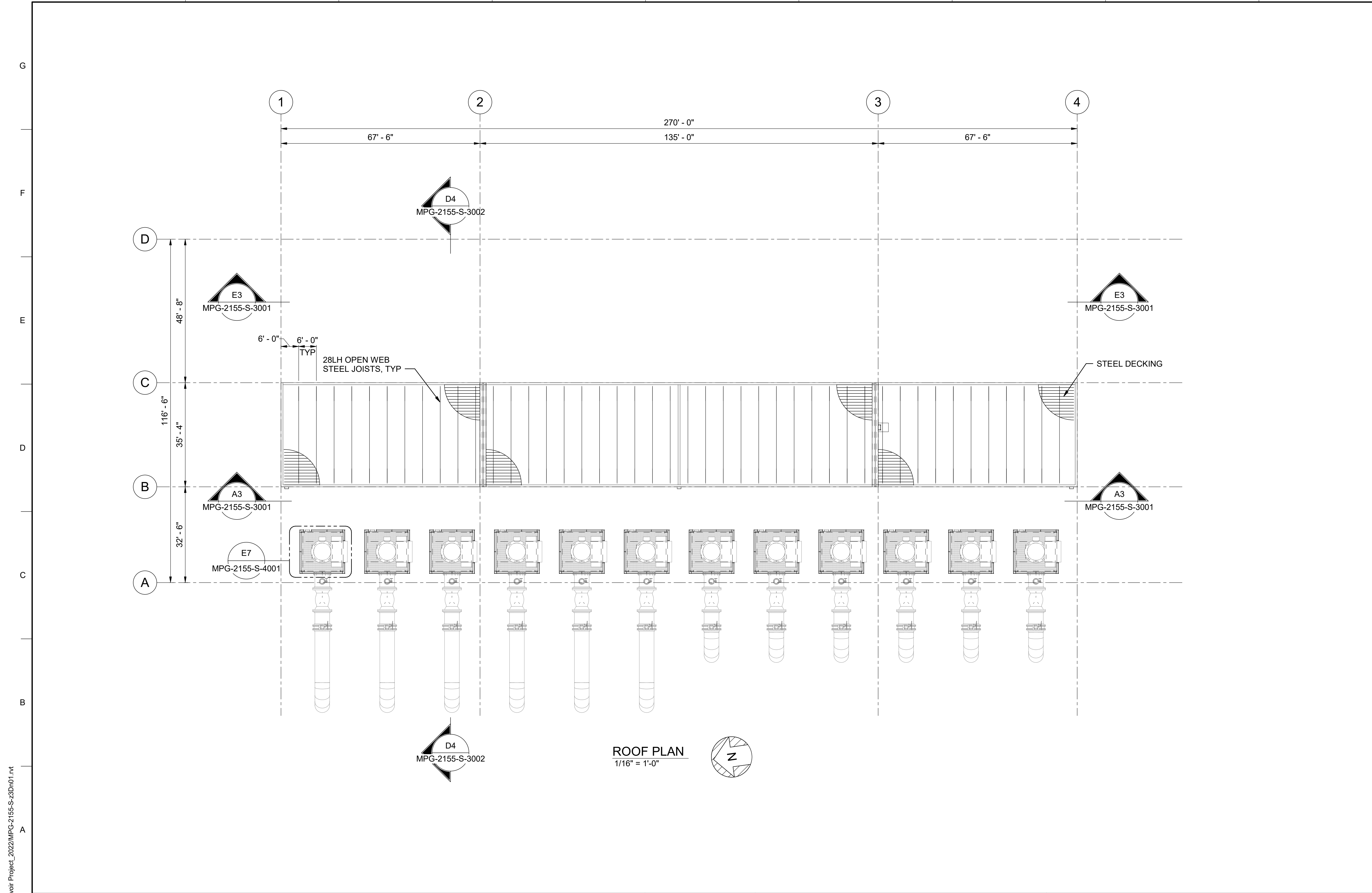


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 FLOOR PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 DRAWING NO. MPG-2155-S-2100  
 SHT 84 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-3Dn01.rvt  
 12-Oct-23 10:05:36 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: F. GARBIN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

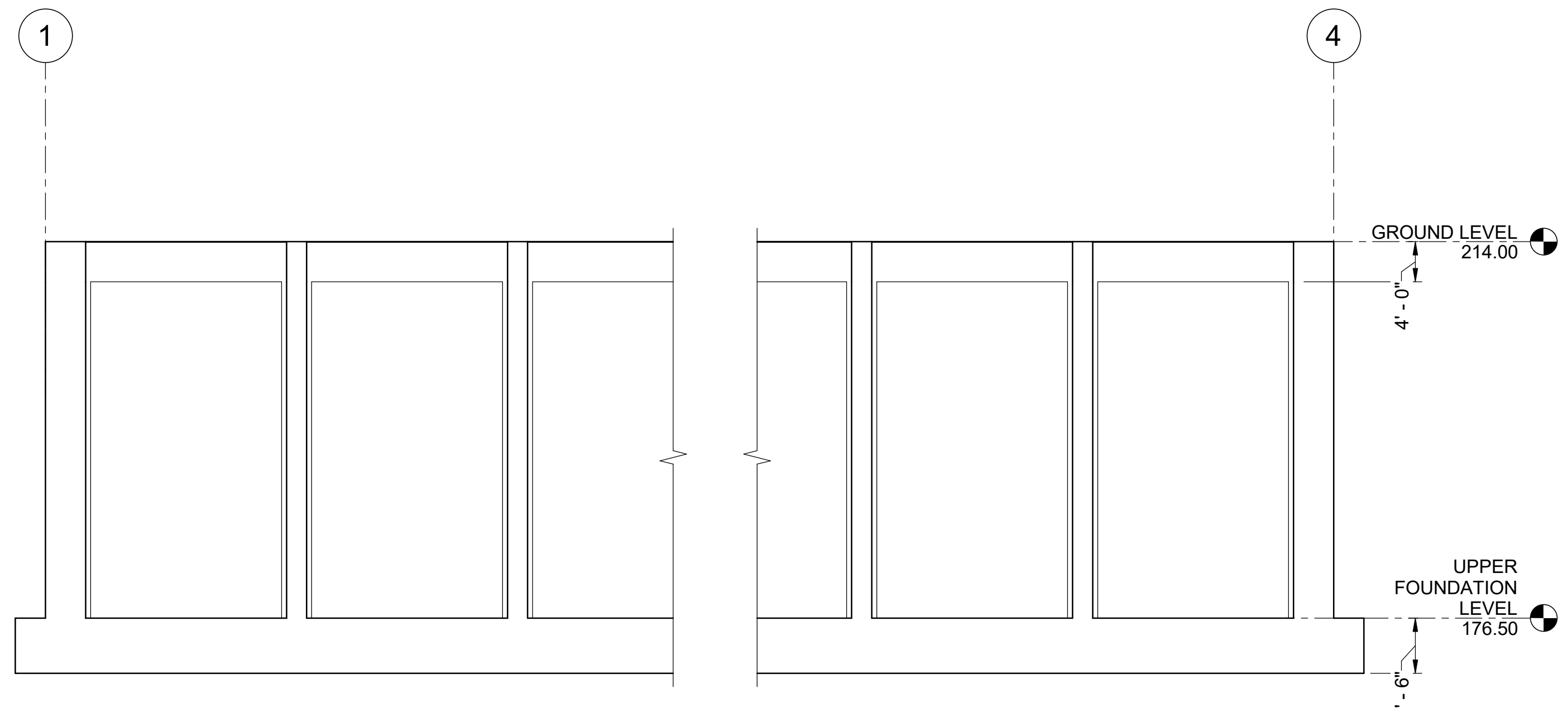


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 ROOF PLAN

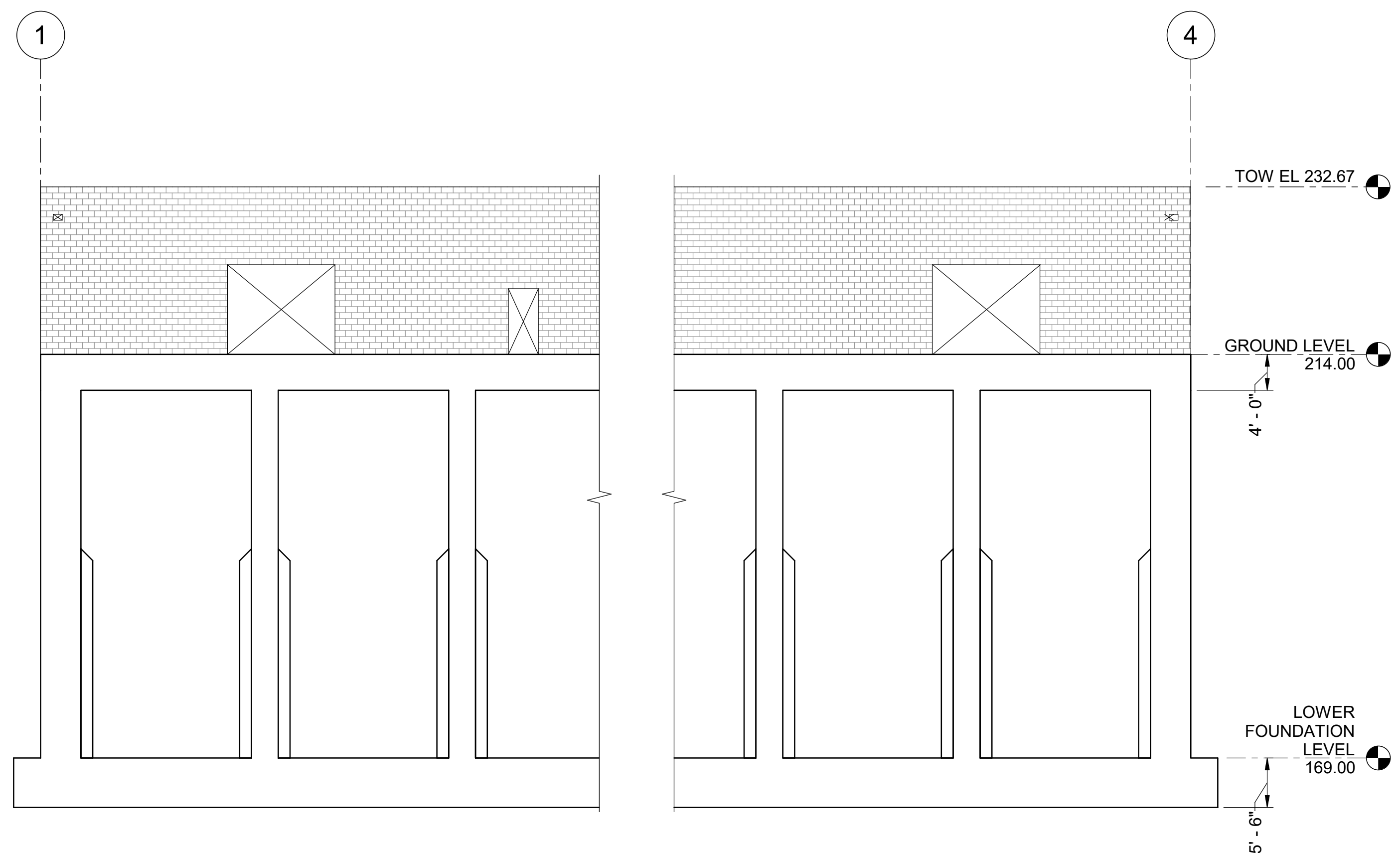
VERIFY SCALES  
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 0 1"  
 DRAWING NO. MPG-2155-S-2200  
 SHT 85 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**E3 SECTION**  
 3/32" = 1'-0"  
 MPG-2155-S-2000



**A3 SECTION**  
 3/32" = 1'-0"  
 MPG-2155-S-2000

GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-3Dn01.rvt  
 9/19/2023 9:25:40 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: F. GARBIN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

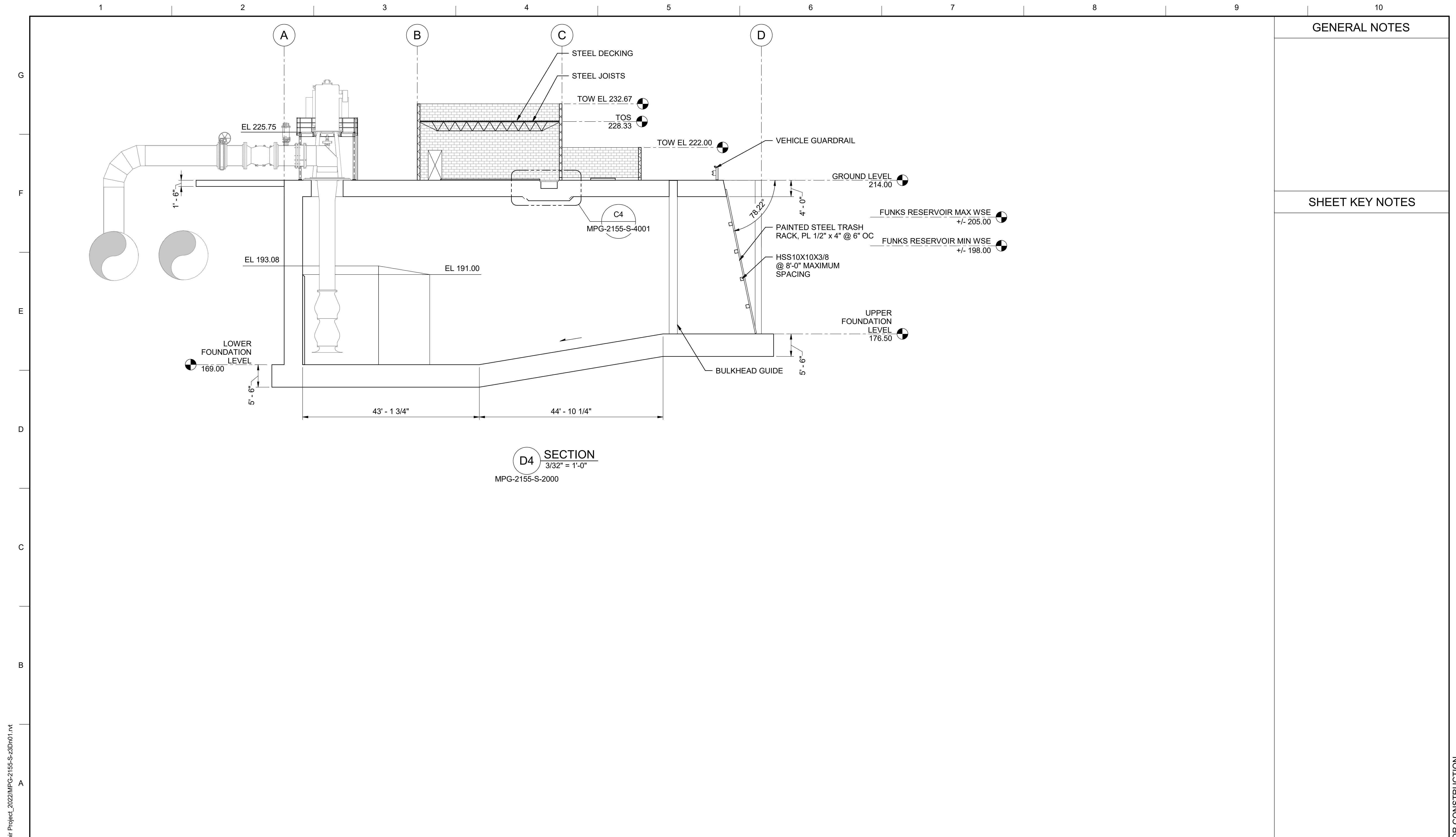


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 SECTIONS

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2155-S-3001  
 SHT 86 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





**D4 SECTION**  
 3/32" = 1'-0"  
 MPG-2155-S-2000

GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2155-S-33Dn01.rvt  
 12-Oct-23 5:41:22 PM

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: F. GARBIEN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



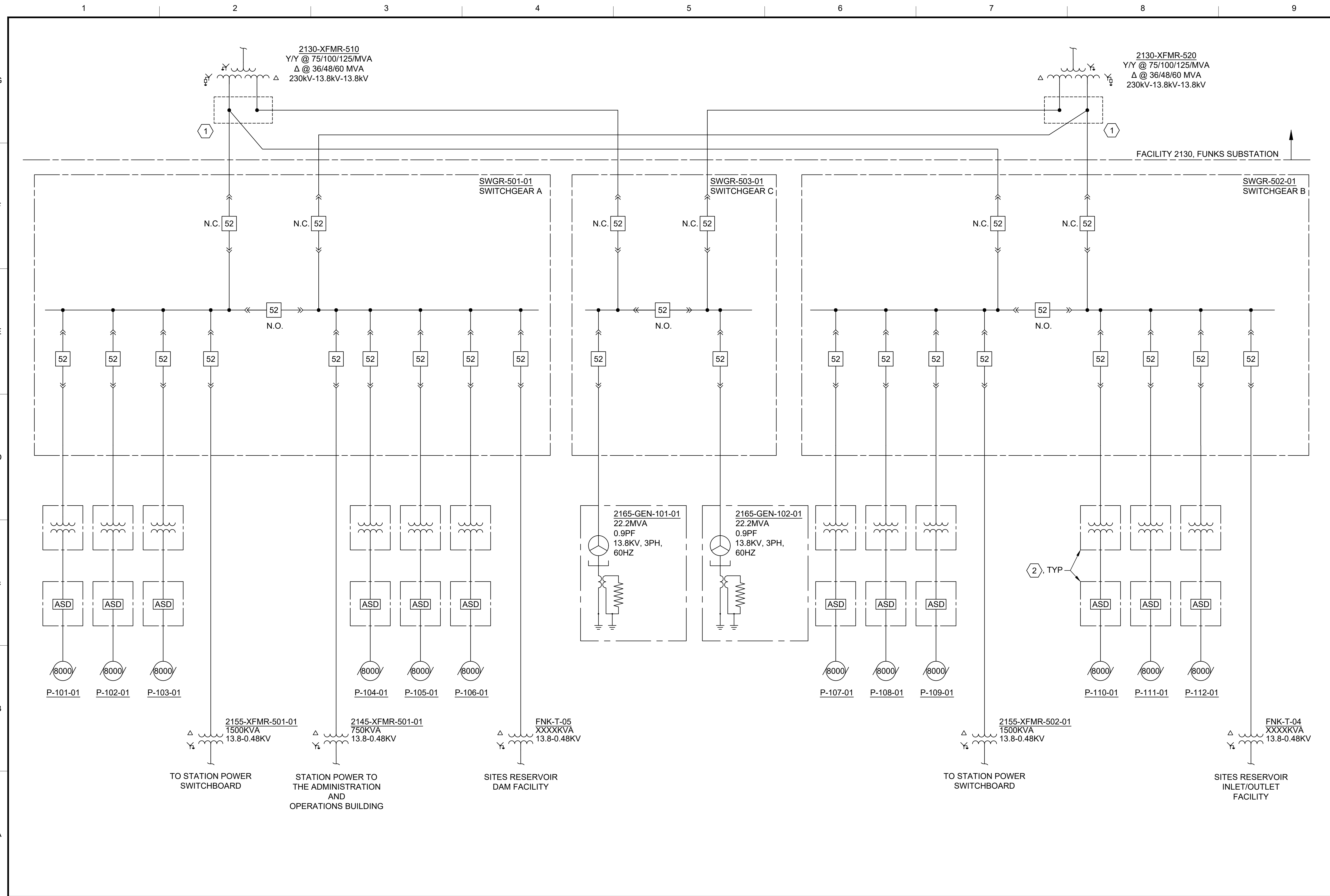
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 PUMPING PLANT  
 SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2155-S-3002  
 SHT 87 OF 176

File: C:\pwworking\hdc\_sites\_reservoir\hdc\_sites\_reservoir\dms01127\MPG-2155-E-6001.dwg  
 Plot Date: 10/9/2023 8:22 AM  
 Saved By: GARCIAE1



**GENERAL NOTES**

- SHEET KEY NOTES**
- OVERHEAD TO UNDERGROUND TERMINATION AT SUBSTATION.
  - MEDIUM VOLTAGE ADJUSTABLE SPEED DRIVE AND PHASE SHIFTING TRANSFORMER PROVIDED BY SAME MANUFACTURER.

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:  
 C. CUSWORTH  
 DRAWN BY:  
 E. GARCIA  
 CHECKED BY:  
 J. LANDMAN  
 IN CHARGE:  
 P. RUDE  
 DATE:  
 10-17-2023



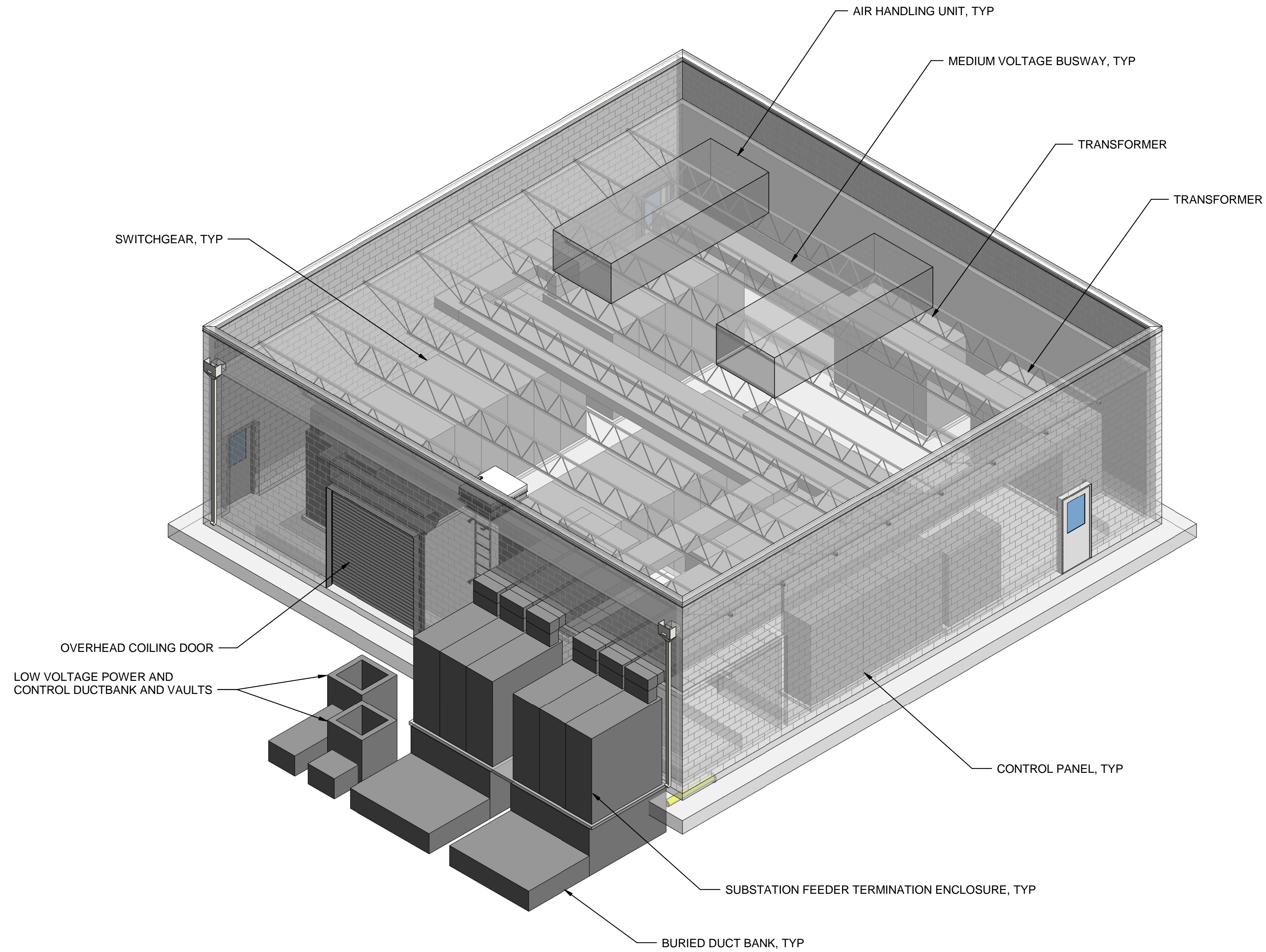
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M. CUSWORTH  
 19120 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING ELECTRICAL  
 FUNKS RESERVOIR PUMPING PLANT  
 ONE-LINE DIAGRAM - OVERALL

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
 0 1"  
 DRAWING NO.  
 MPG-2155-E-6001  
 SHT 93 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - SWITCHGEAR BUILDING

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
 10/13/2023 2:52:17 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: C. CUSWORTH  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 RENDERING

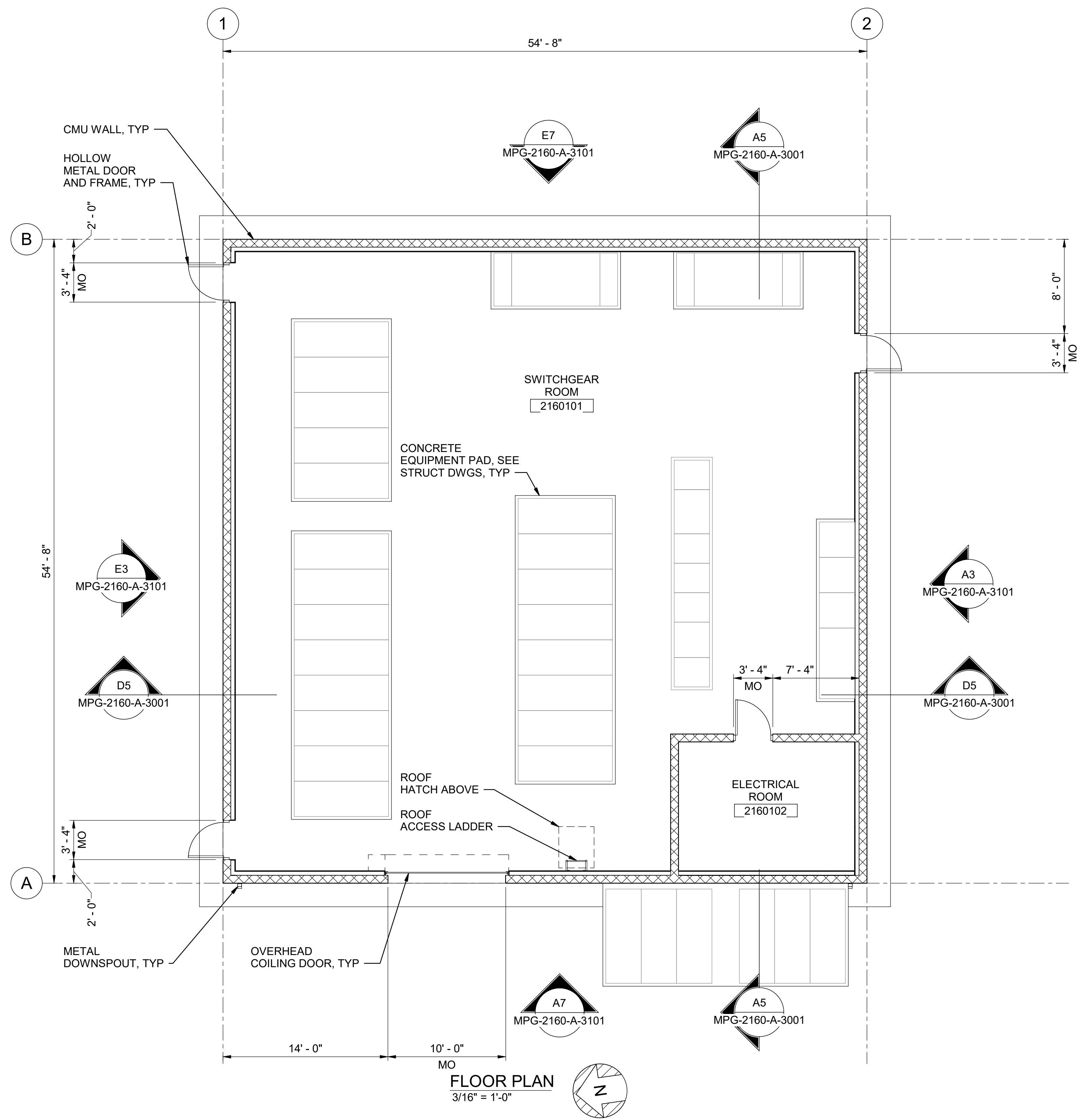
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 0 1"  
 DRAWING NO. MPG-2160-G-0001  
 SHT 102 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0205.



**FLOOR PLAN**  
3/16" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2160-S-z3Dn01.rvt  
 9/25/2023 11:55:37 AM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



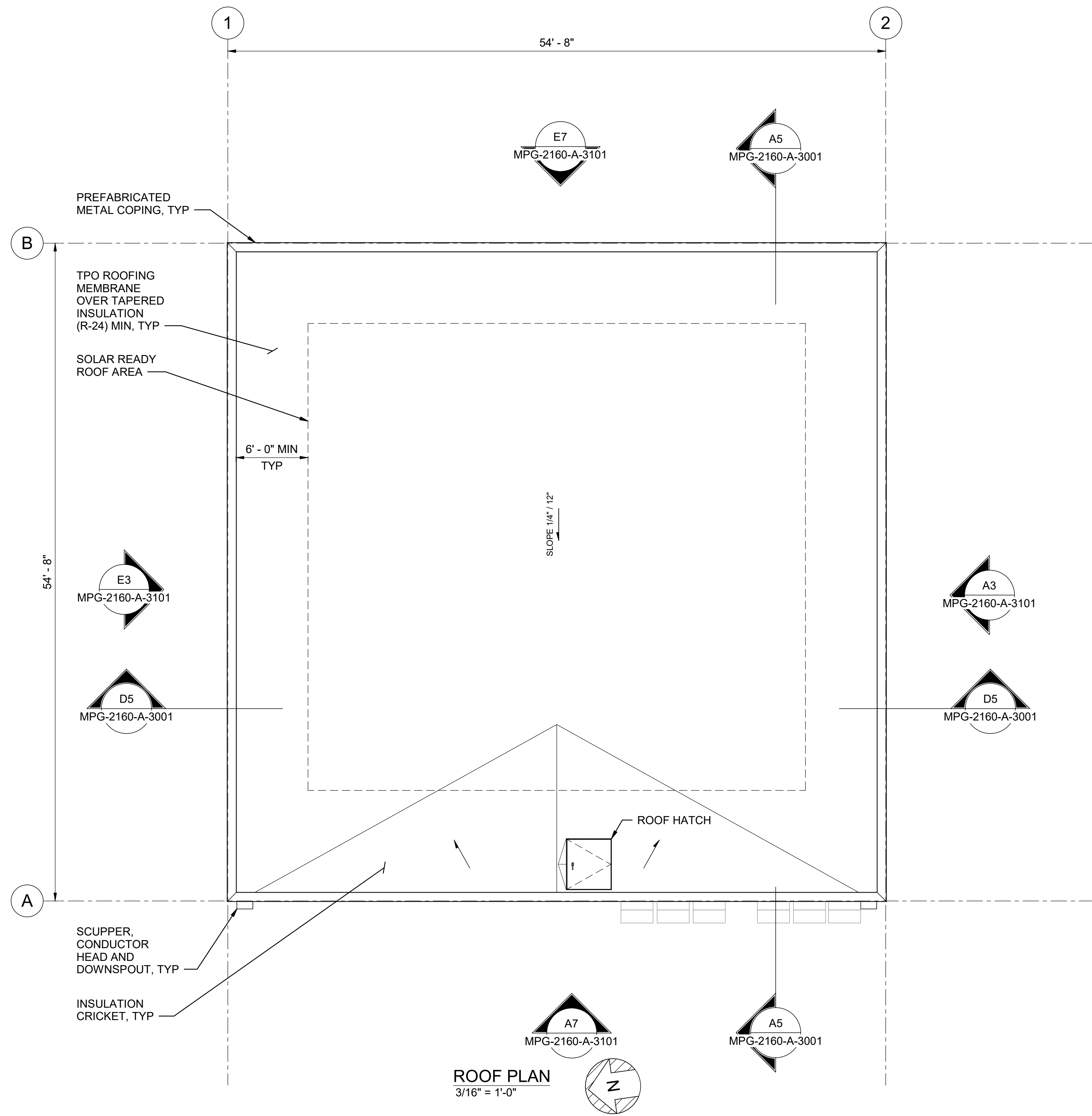
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 FLOOR PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2160-A-2001  
 SHT 103 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0205.



**ROOF PLAN**  
3/16" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2160-S-z3Dn01.rvt  
 9/25/2023 11:55:37 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



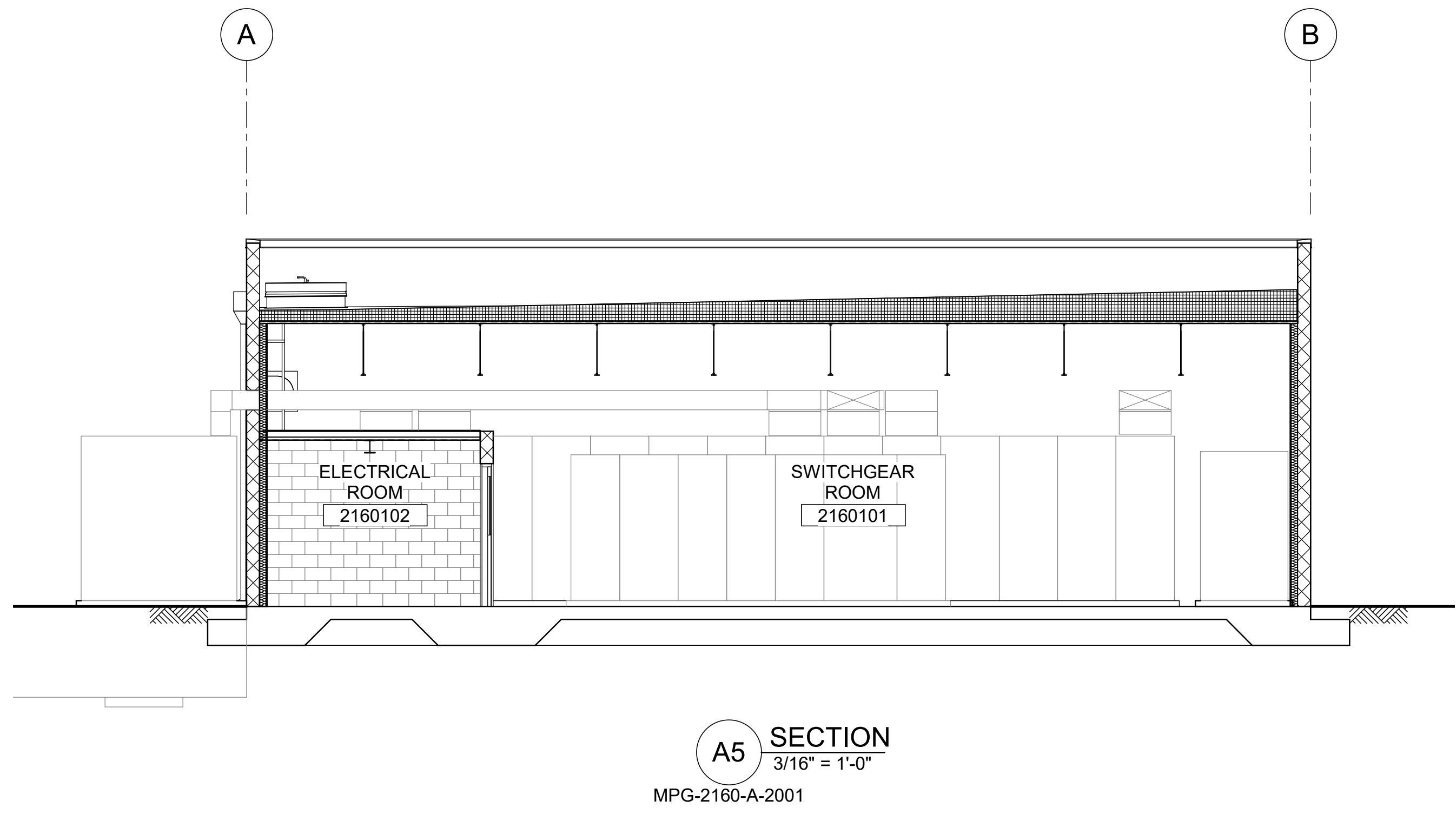
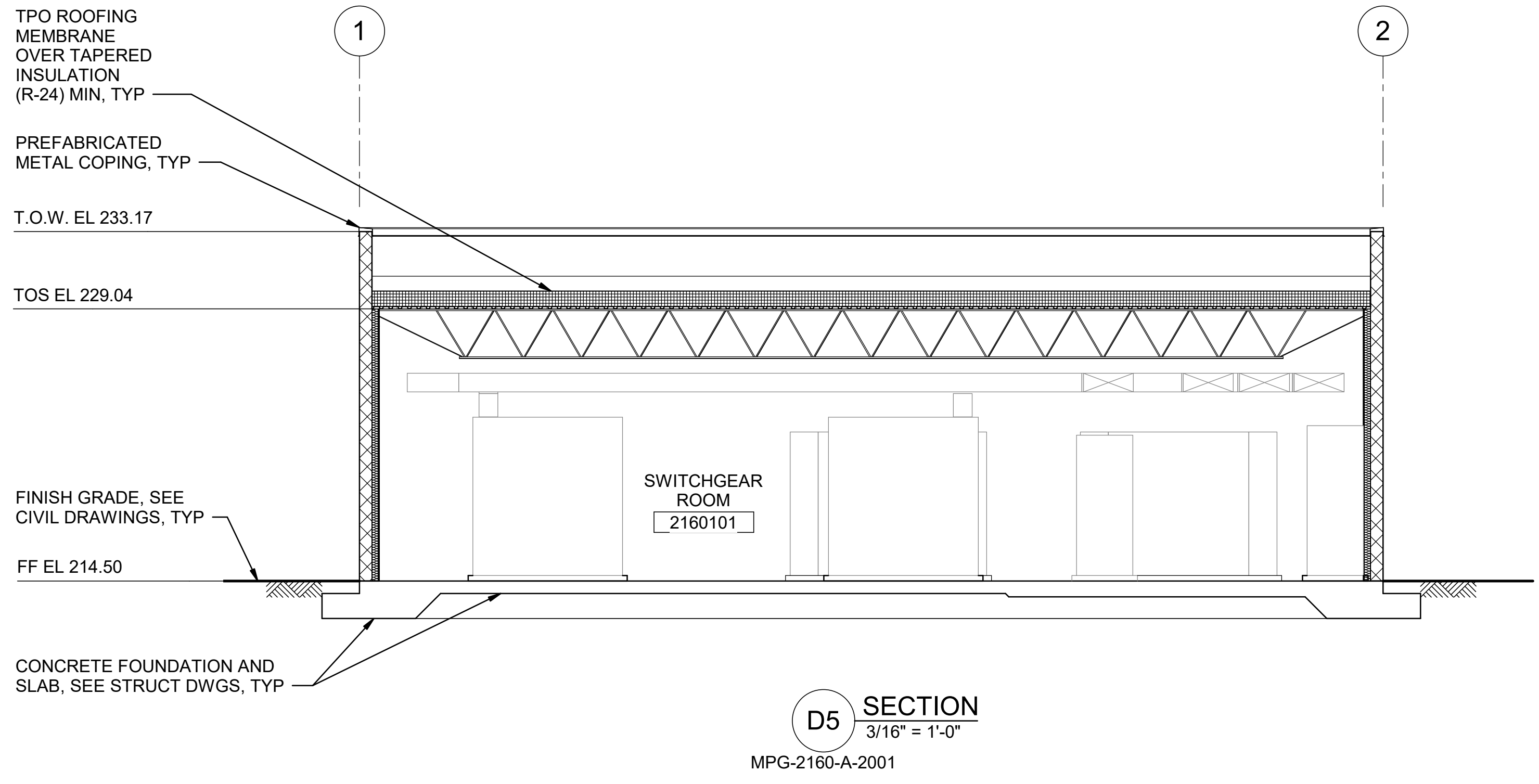
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 ROOF PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2160-A-2100  
 SHT 104 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2160-S-z3Dn01.rvt  
 9/25/2023 11:55:37 AM

DESIGNED BY:	M. KIRKPATRICK
DRAWN BY:	M. COLLINS
CHECKED BY:	G. KIRSTEN
IN CHARGE:	P. RUDE
DATE:	10-17-2023



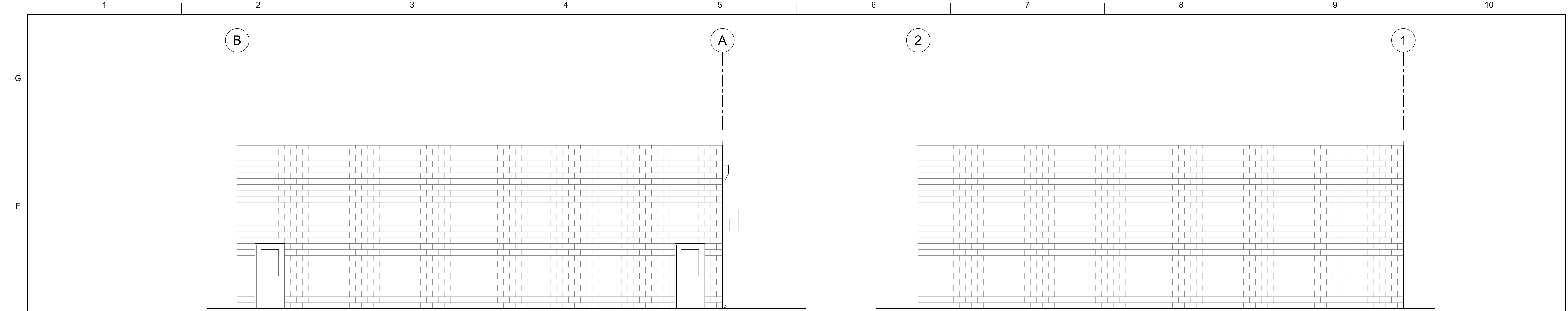
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



<b>SITES RESERVOIR</b> MAXWELL / SITES PUMPING AND GENERATING ARCHITECTURAL FUNKS RESERVOIR SWITCHGEAR BUILDING SECTIONS	
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS 0 1"	
DRAWING NO. MPG-2160-A-3001 SHT 105 OF 176	

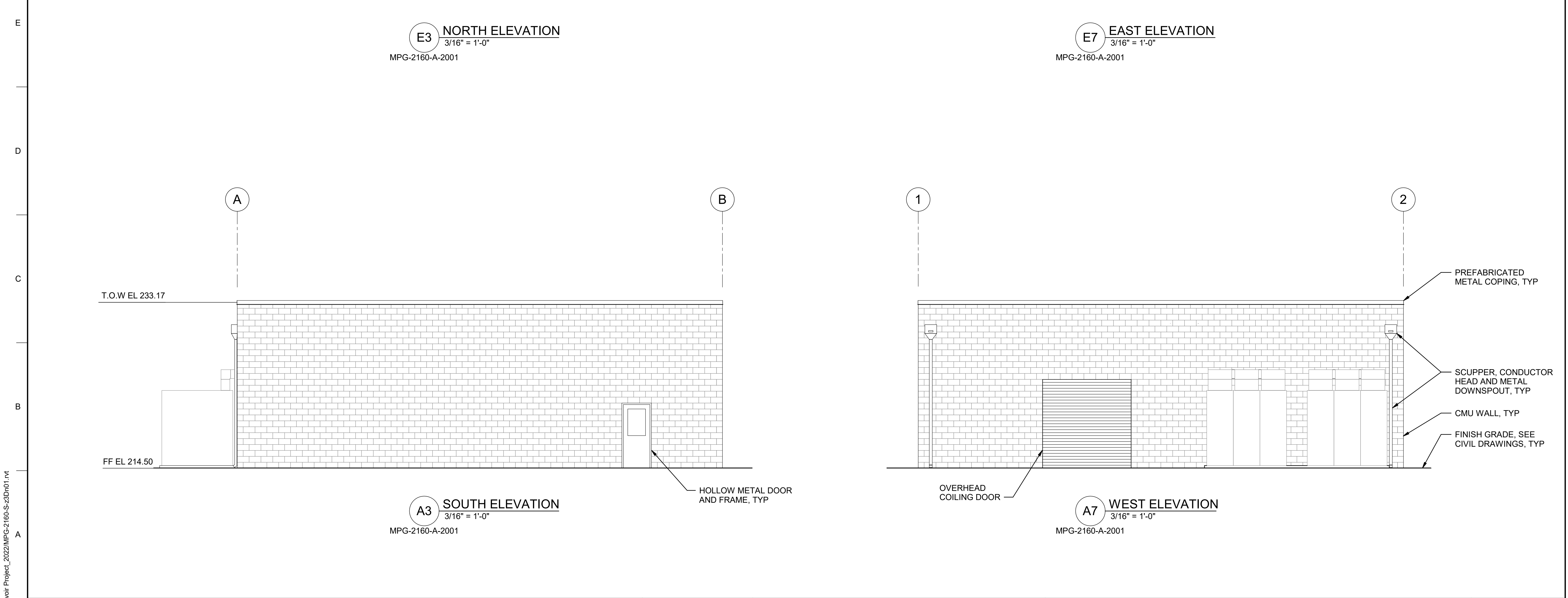
PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2160-S-z3Dn01.rvt  
 9/25/2023 11:55:38 AM



**E3 NORTH ELEVATION**  
 3/16" = 1'-0"  
 MPG-2160-A-2001

**E7 EAST ELEVATION**  
 3/16" = 1'-0"  
 MPG-2160-A-2001



**A3 SOUTH ELEVATION**  
 3/16" = 1'-0"  
 MPG-2160-A-2001

**A7 WEST ELEVATION**  
 3/16" = 1'-0"  
 MPG-2160-A-2001

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



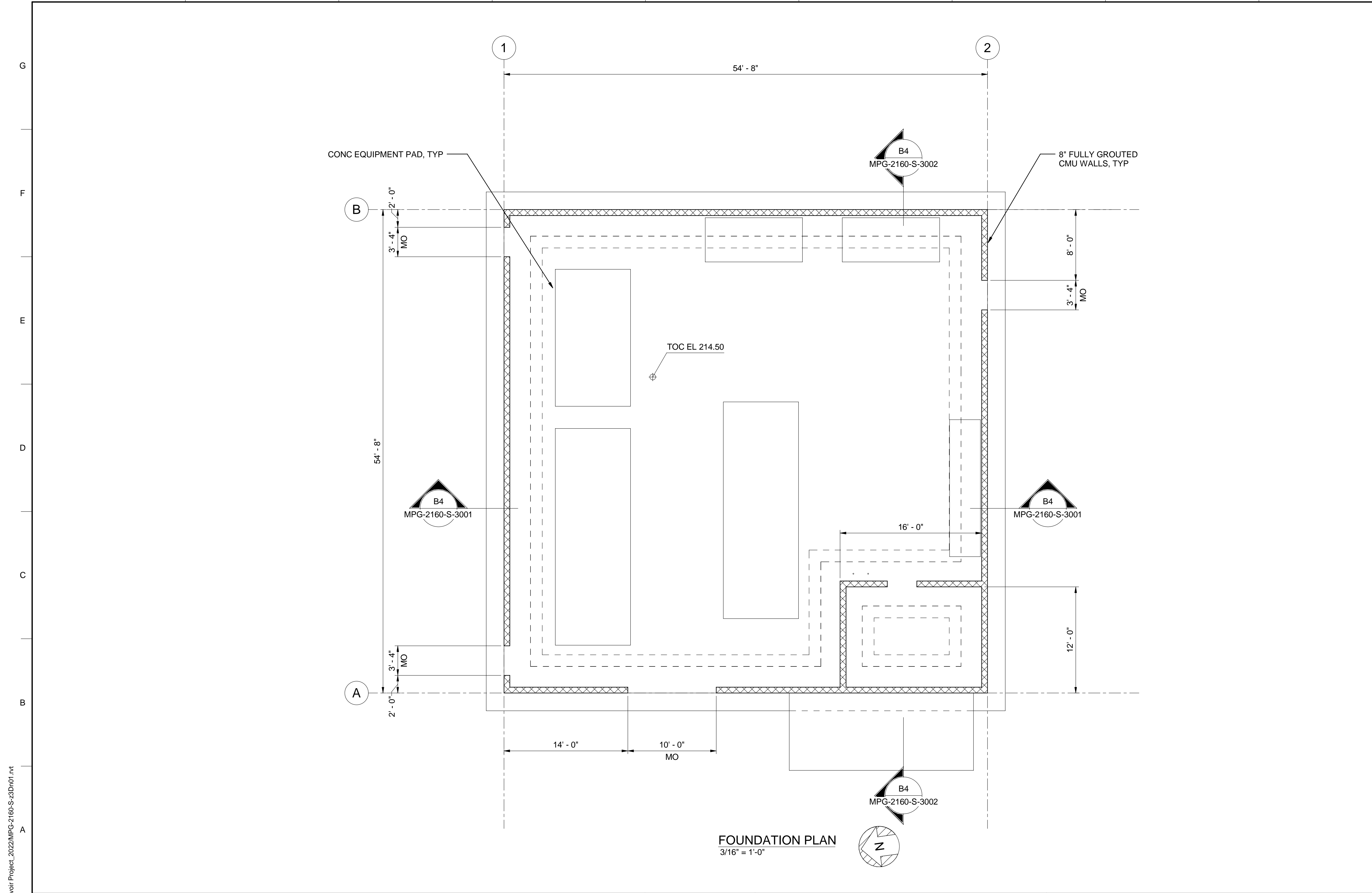
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 EXTERIOR ELEVATIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2160-A-3101  
 SHT 106 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL NOTES**

1. FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:

A. LATERAL FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS

B. RESPONSE MODIFICATION FACTOR, R = 5

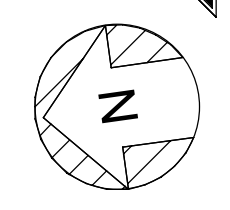
C. RISK CATEGORY = II

D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0

E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.135

**SHEET KEY NOTES**

**FOUNDATION PLAN**  
3/16" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2160-S-3Dn01.rvt  
 31-Aug-23 11:26:18 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

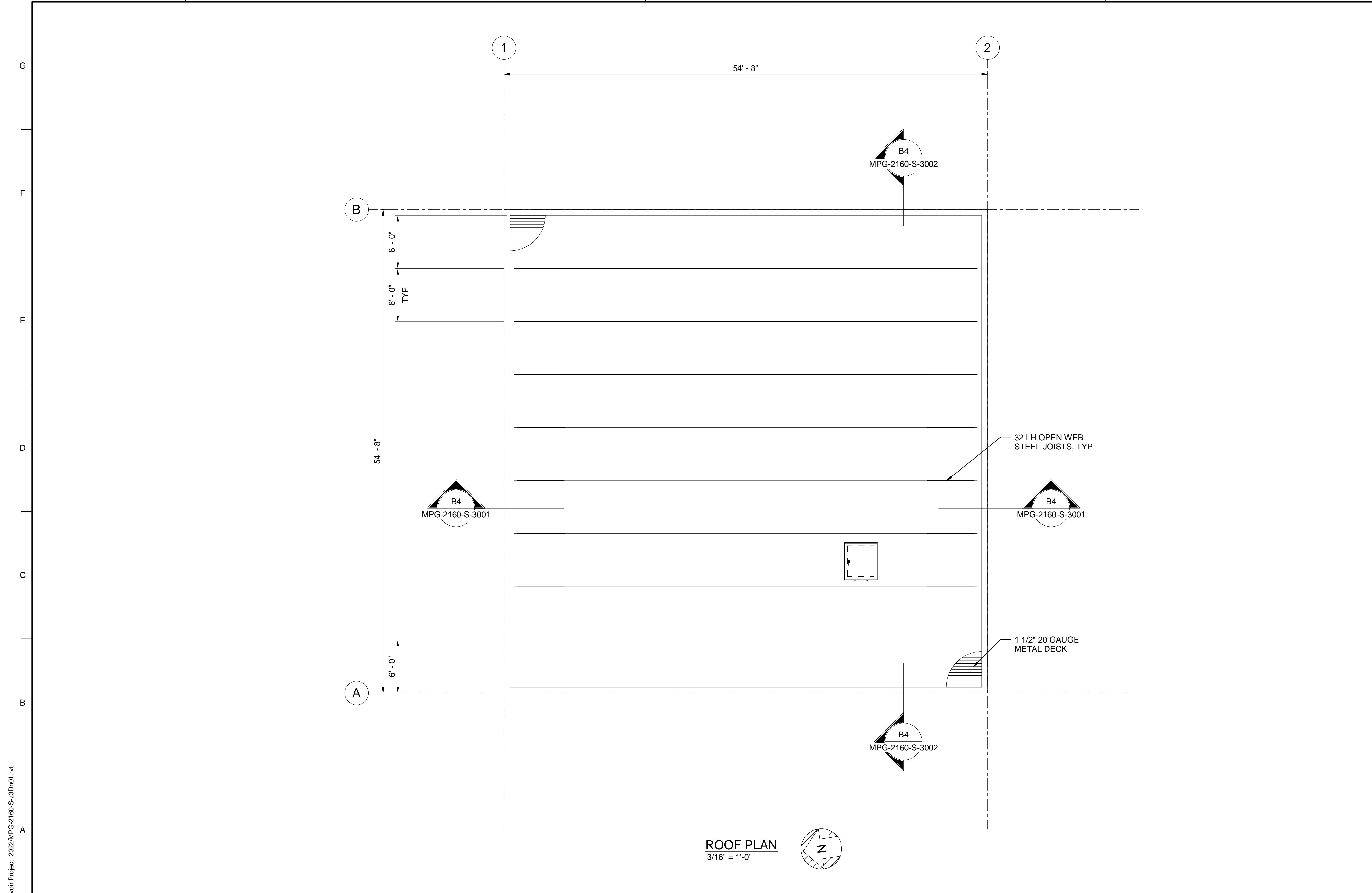


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2160-S-2001  
 SHT 107 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

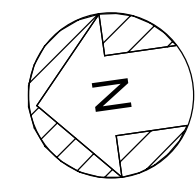




GENERAL NOTES

SHEET KEY NOTES

ROOF PLAN  
3/16" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2160-S-3Dn01.rvt  
 31-Aug-23 11:26:26 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

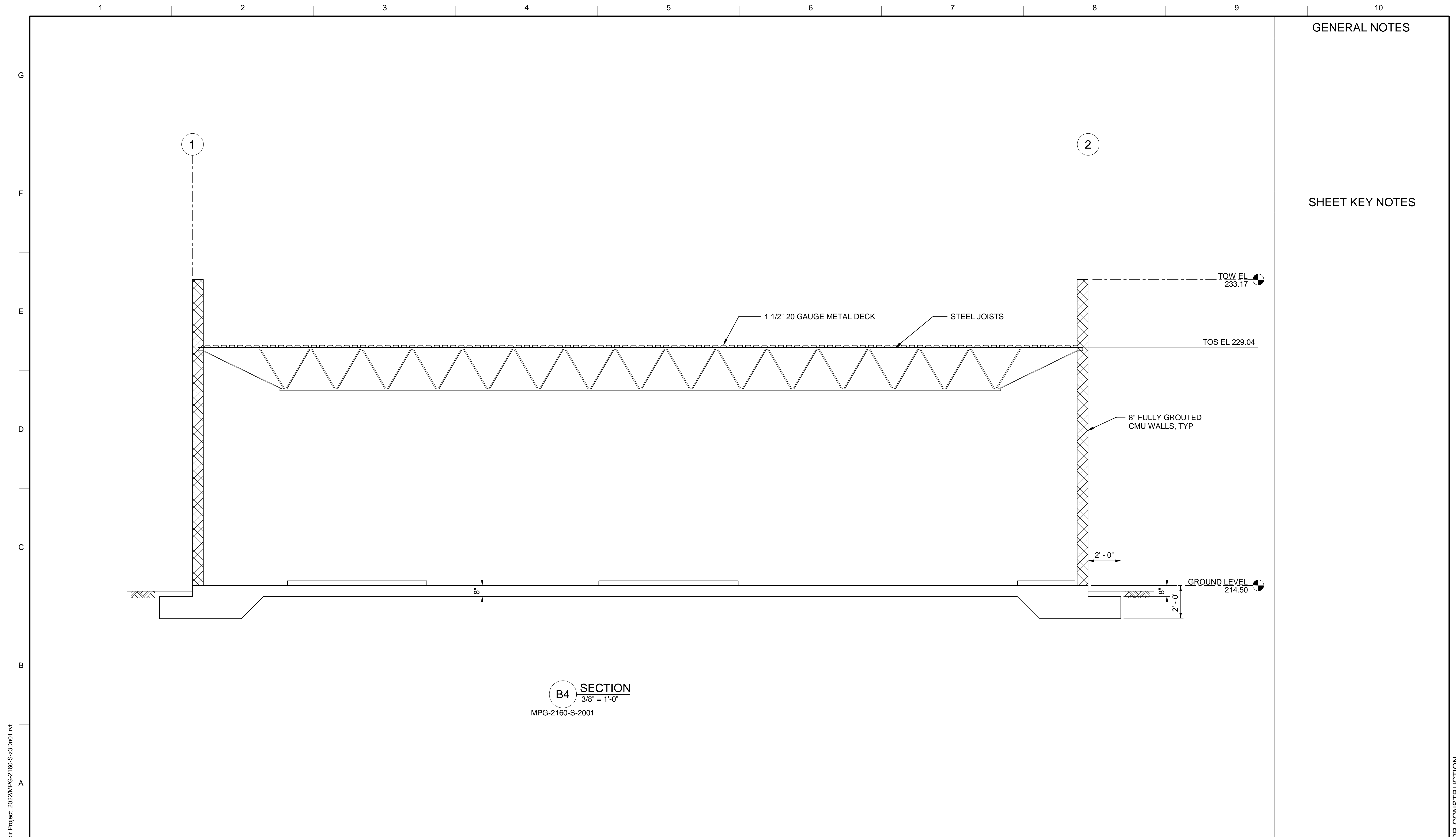
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 ROOF PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2160-S-2101  
 SHT 108 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

B:\M 360\10333221\_Site Reservoir Project\_2022\MPG-2160-S-3Dn01.rvt  
31-Aug-23 11:26:28 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:  
R. FORREST

DRAWN BY:  
A. GAWOR

CHECKED BY:  
H. HENRIKSON

IN CHARGE:  
P. RUDE

DATE:  
10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
JEREMY KELLOGG  
P.E. REG No. 5698  
CALIFORNIA



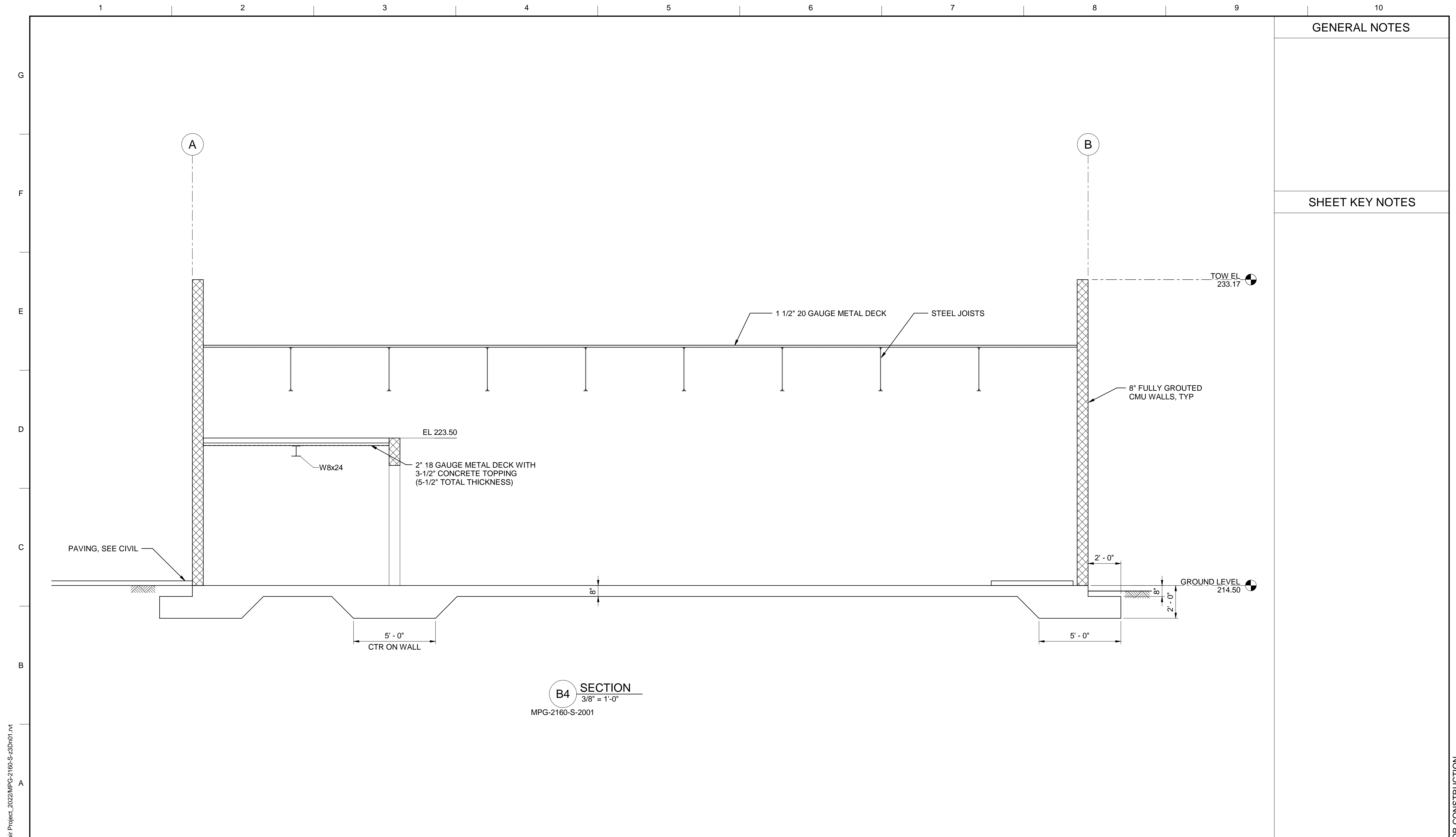
**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
STRUCTURAL  
FUNKS RESERVOIR  
SWITCHGEAR BUILDING  
SECTION

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS

0 1"

DRAWING NO.  
MPG-2160-S-3001  
SHT 109 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2160-S-3Dn01.rvt  
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REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: R. FORREST  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



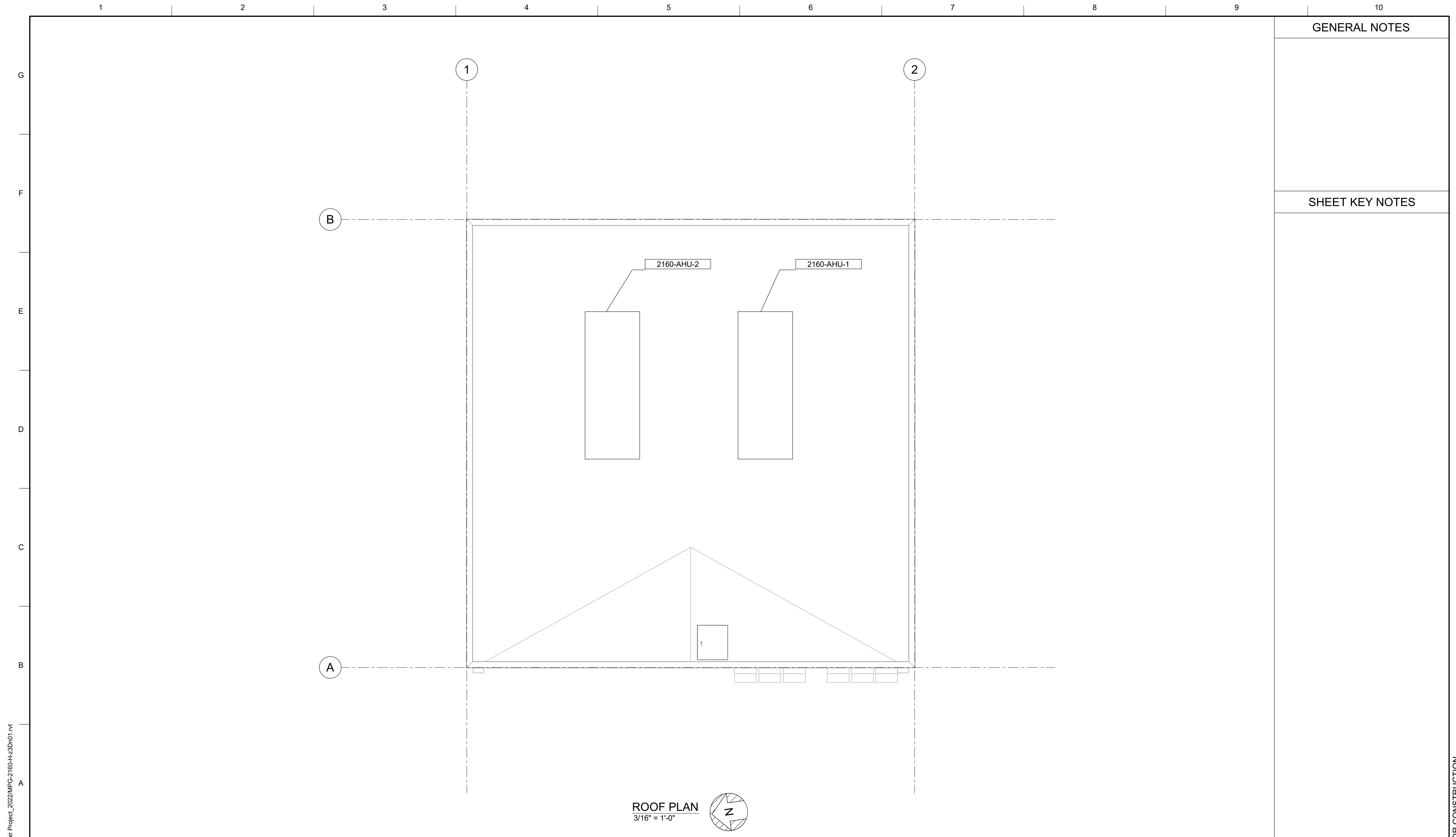
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2160-S-3002  
 SHT 110 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ROOF PLAN  
3/16" = 1'-0"

GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2160-H-z3Dn01.rvt  
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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA

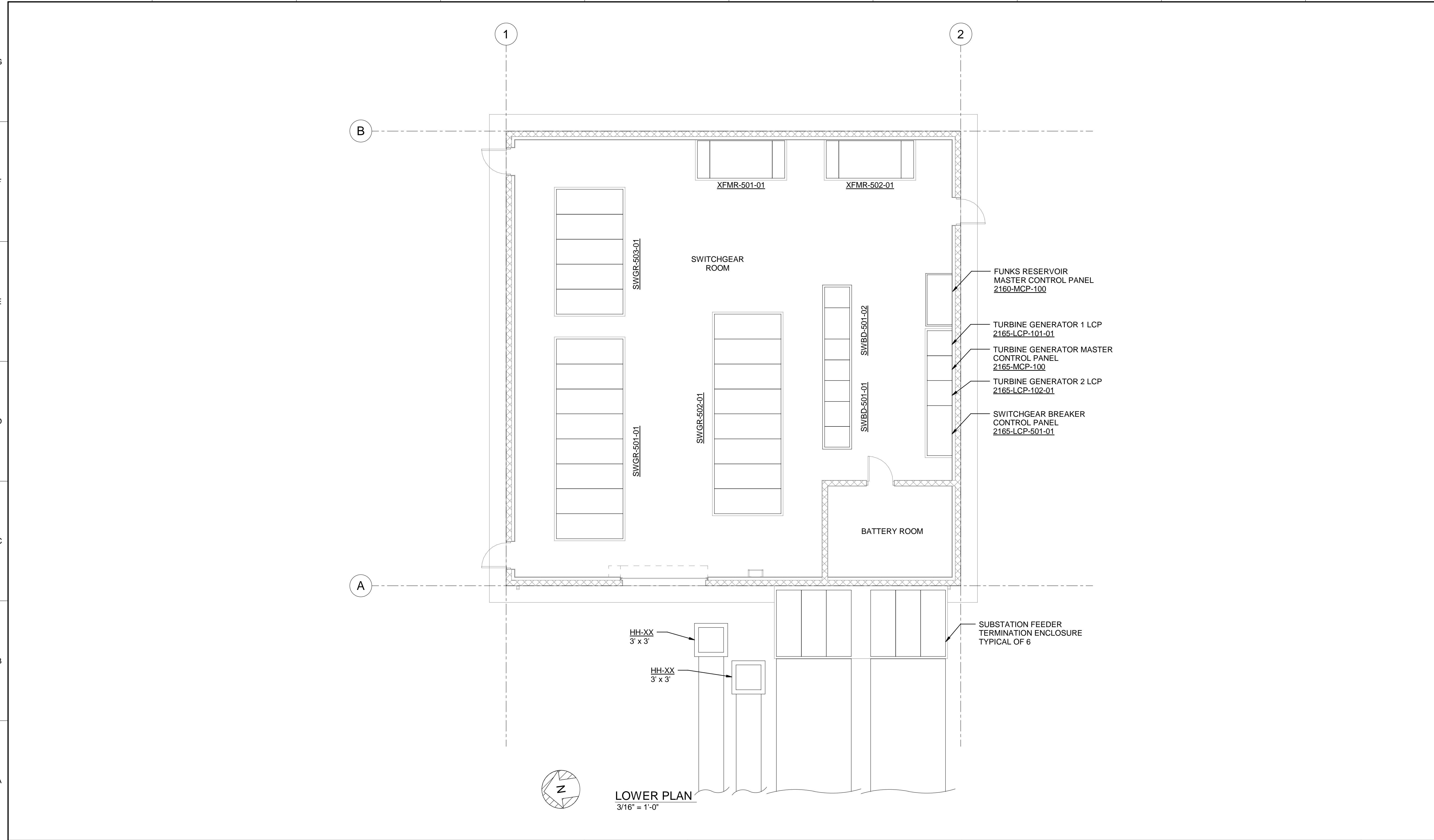


**SITES RESERVOIR**  
 MAXWELL / SITES AND GENERATING  
 HVAC  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 FLOOR PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 DRAWING NO.  
 MPG-2160-H-2101  
 SHT 111 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**LOWER PLAN**  
3/16" = 1'-0"

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2160-E-z3Dn01.rvt  
 10/12/2023 11:11:47 AM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION


DESIGNED BY: C. CUSWORTH  
 DRAWN BY: R. SHARMA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

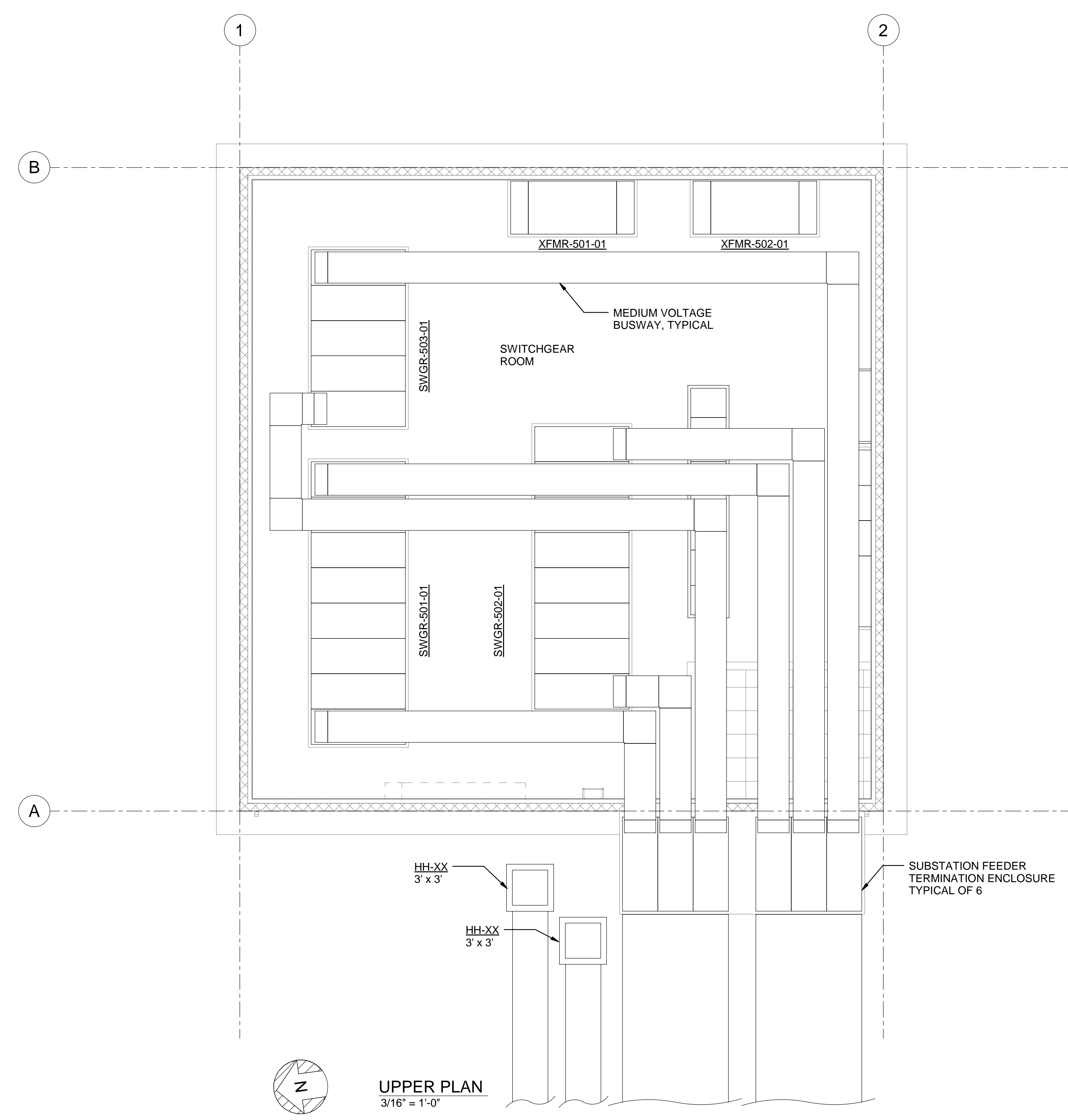
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 ELECTRICAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 LOWER PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2160-E-2001  
 SHT 112 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**UPPER PLAN**  
3/16" = 1'-0"

GENERAL NOTES

---

SHEET KEY NOTES

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 DRAWN BY: R. SHARMA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



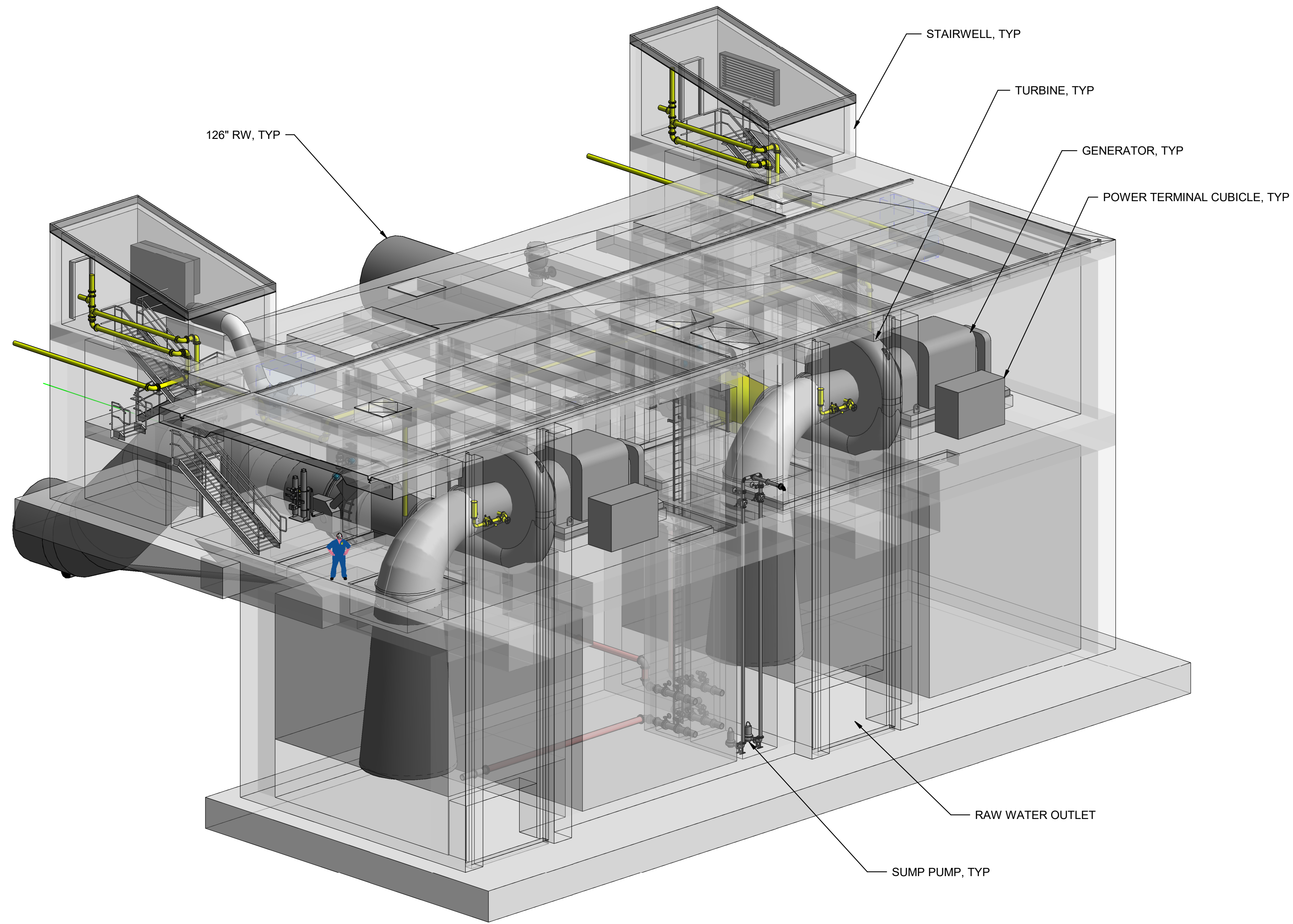
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 ELECTRICAL  
 FUNKS RESERVOIR  
 SWITCHGEAR BUILDING  
 UPPER PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2160-E-2002  
 SHT 113 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - GENERATING PLANT

BIN 360//10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
10/12/2023 2:35:09 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: C. ISAMAN  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

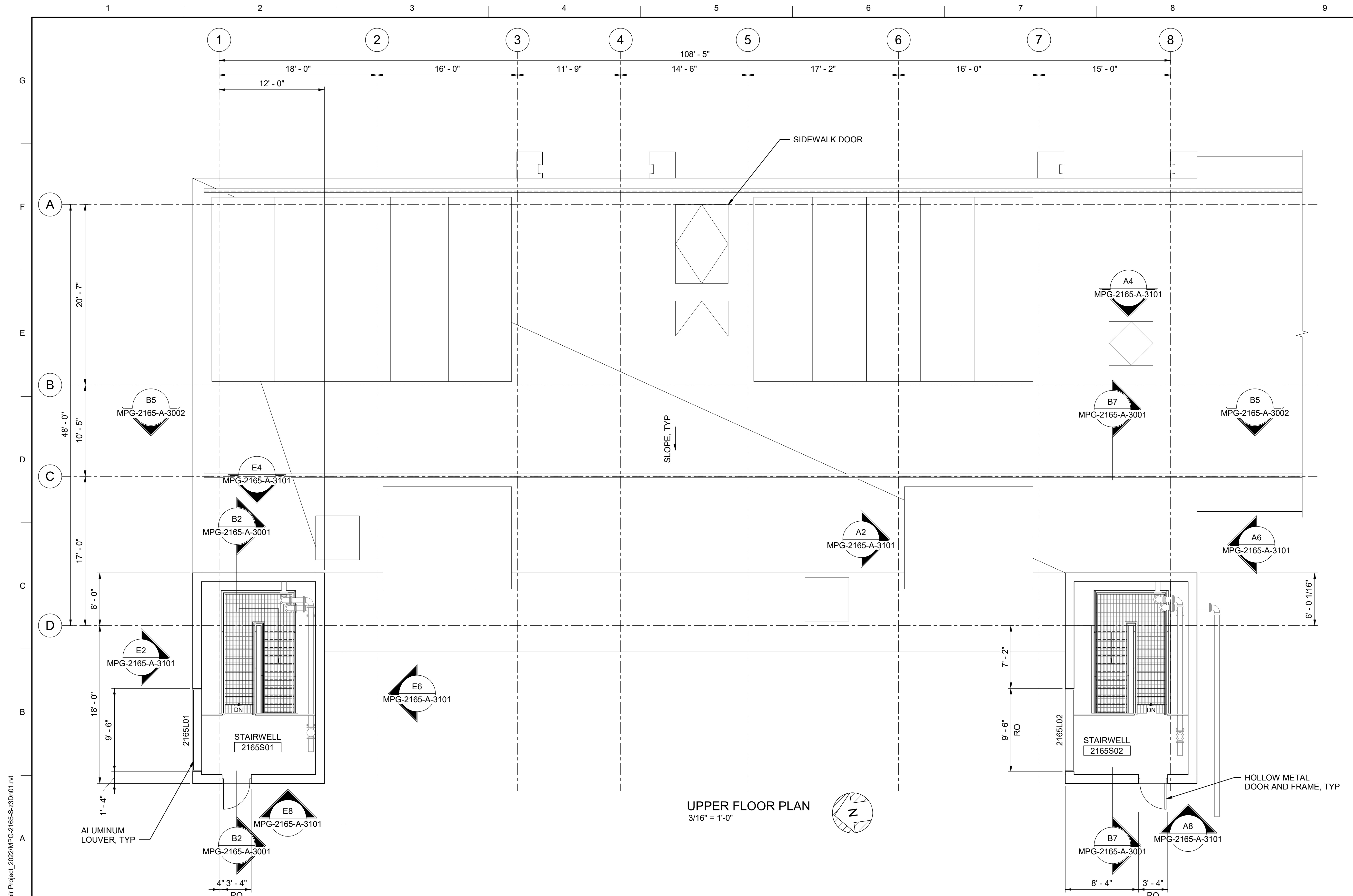
REGISTERED PROFESSIONAL ENGINEER  
 WAYNE J. OHLIN  
 P.E. REG No. 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2165-G-0001  
 SHT 114 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-2165-G-0201.
  - FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0206.

**UPPER FLOOR PLAN**  
3/16" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-z3Dn01.rvt  
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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 UPPER FLOOR PLAN

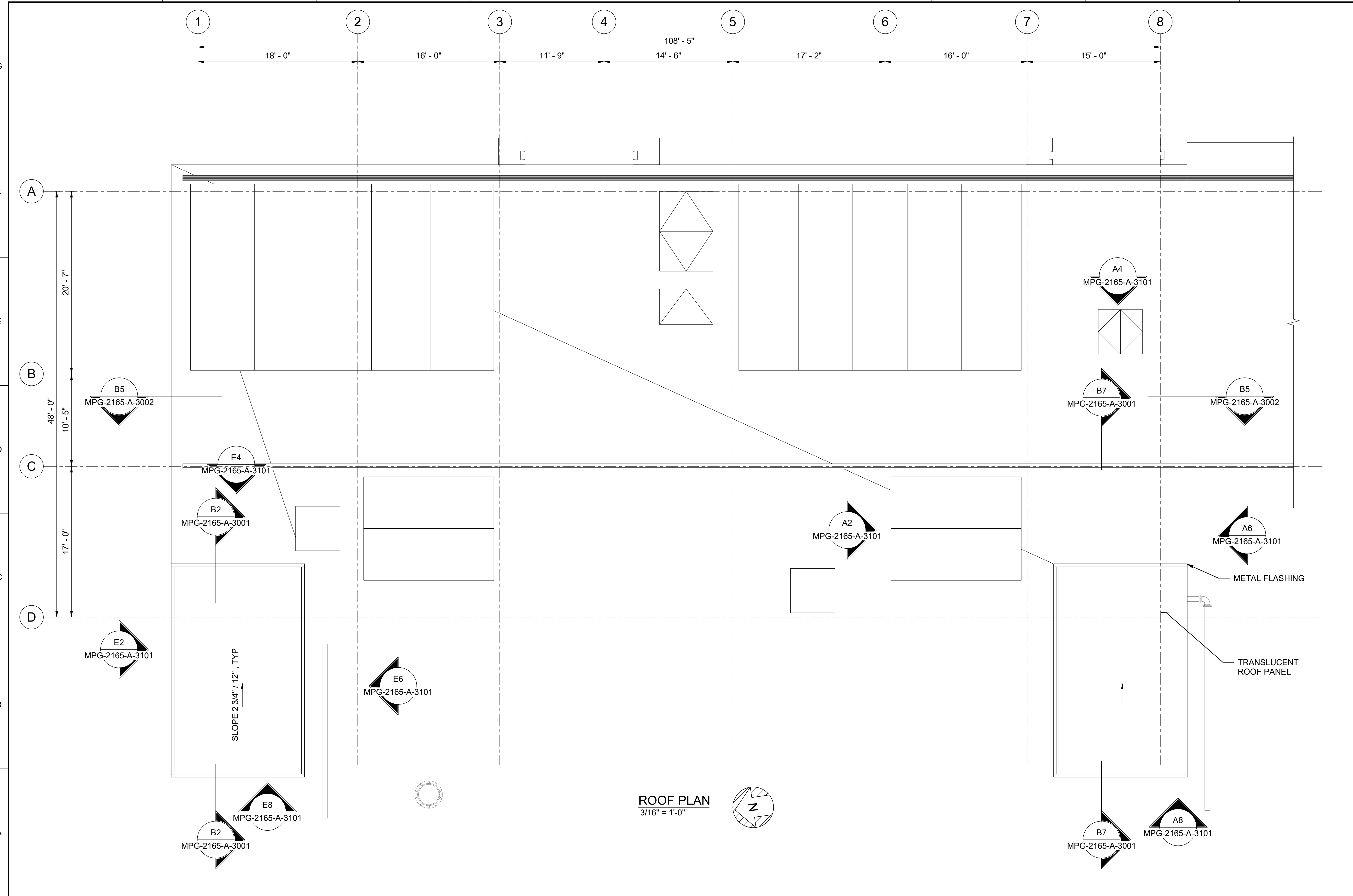
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
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 REDUCED PLOTS  
 0 1"

DRAWING NO.  
 MPG-2165-A-2101  
 SHT 116 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-3Dn01.rvt  
 9/25/2023 11:32:02 AM



**GENERAL NOTES**

- FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-2165-G-0201.
- FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0206.

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



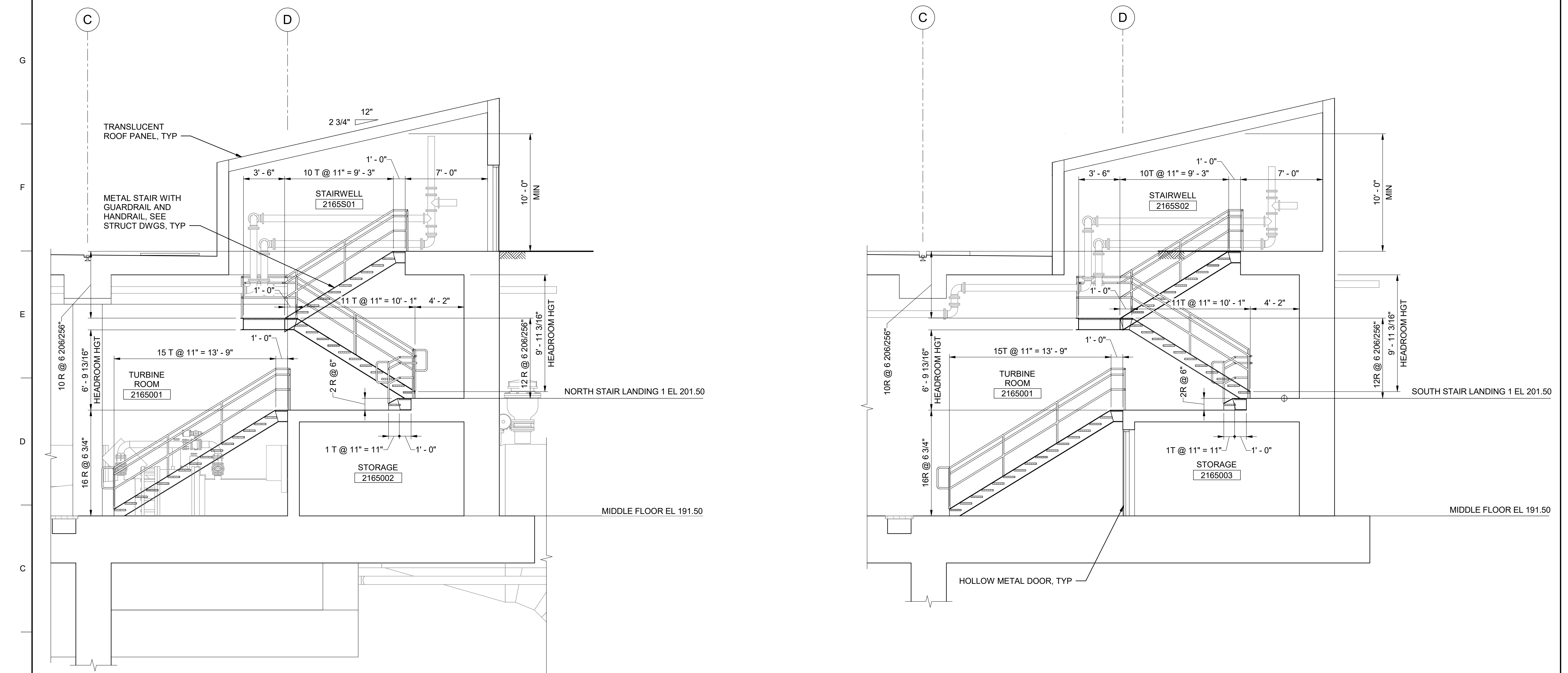
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 ROOF PLAN

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

DRAWING NO.  
 MPG-2165-A-2201  
 SHT 117 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

1 2 3 4 5 6 7 8 9 10



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-z3Dn01.rvt  
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REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

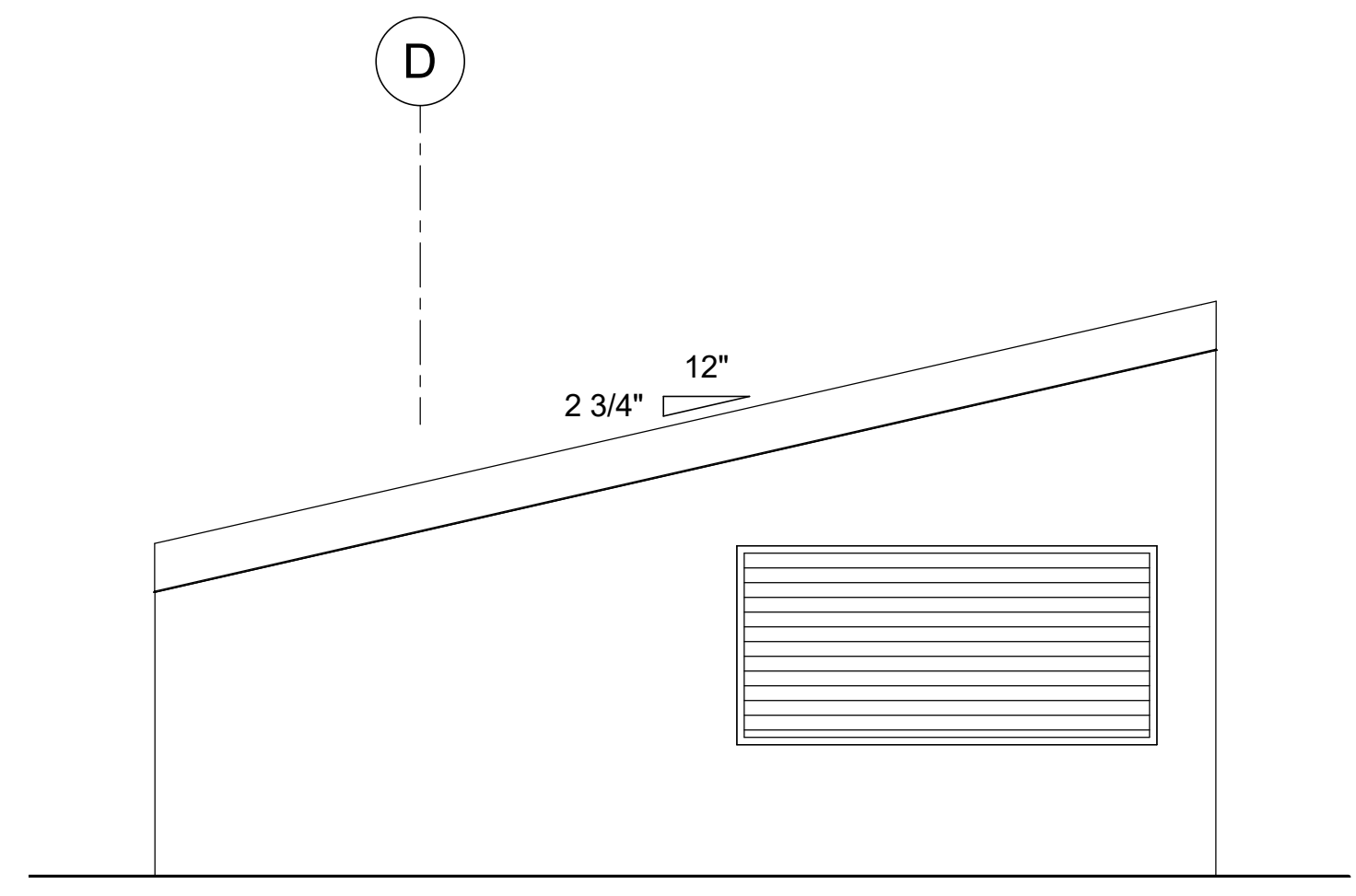
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



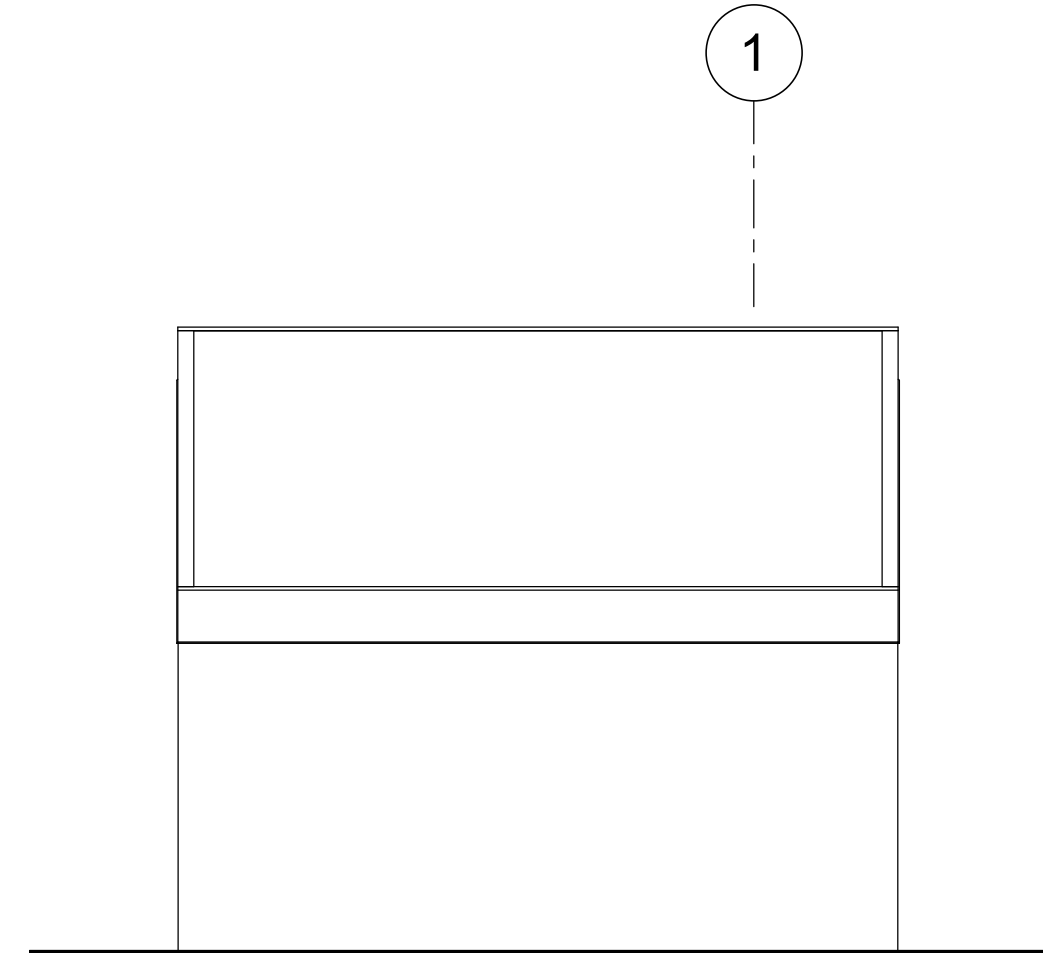
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 SECTIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
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 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2165-A-3001  
 SHT 118 OF 176

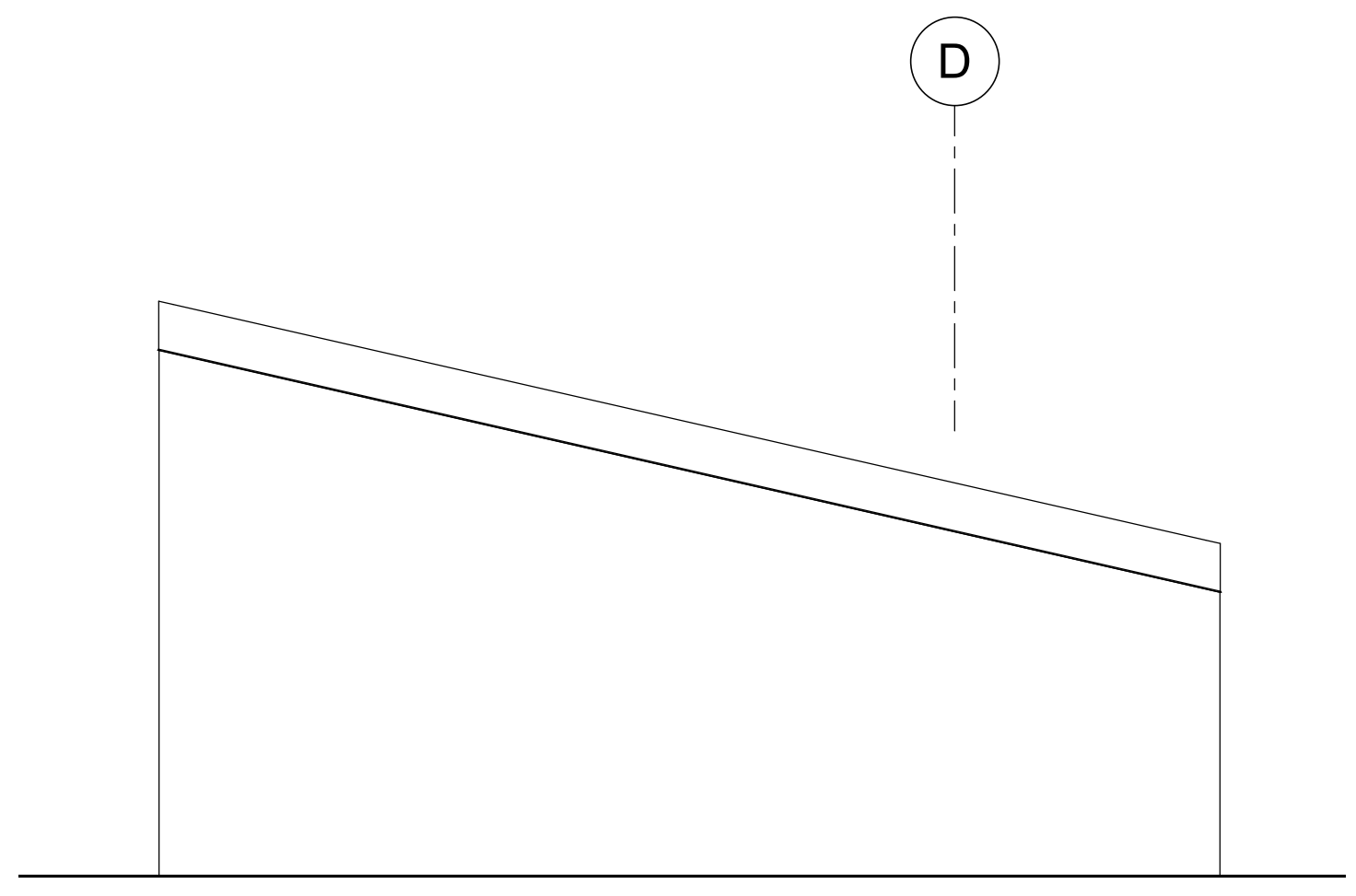
PRELIMINARY - NOT FOR CONSTRUCTION



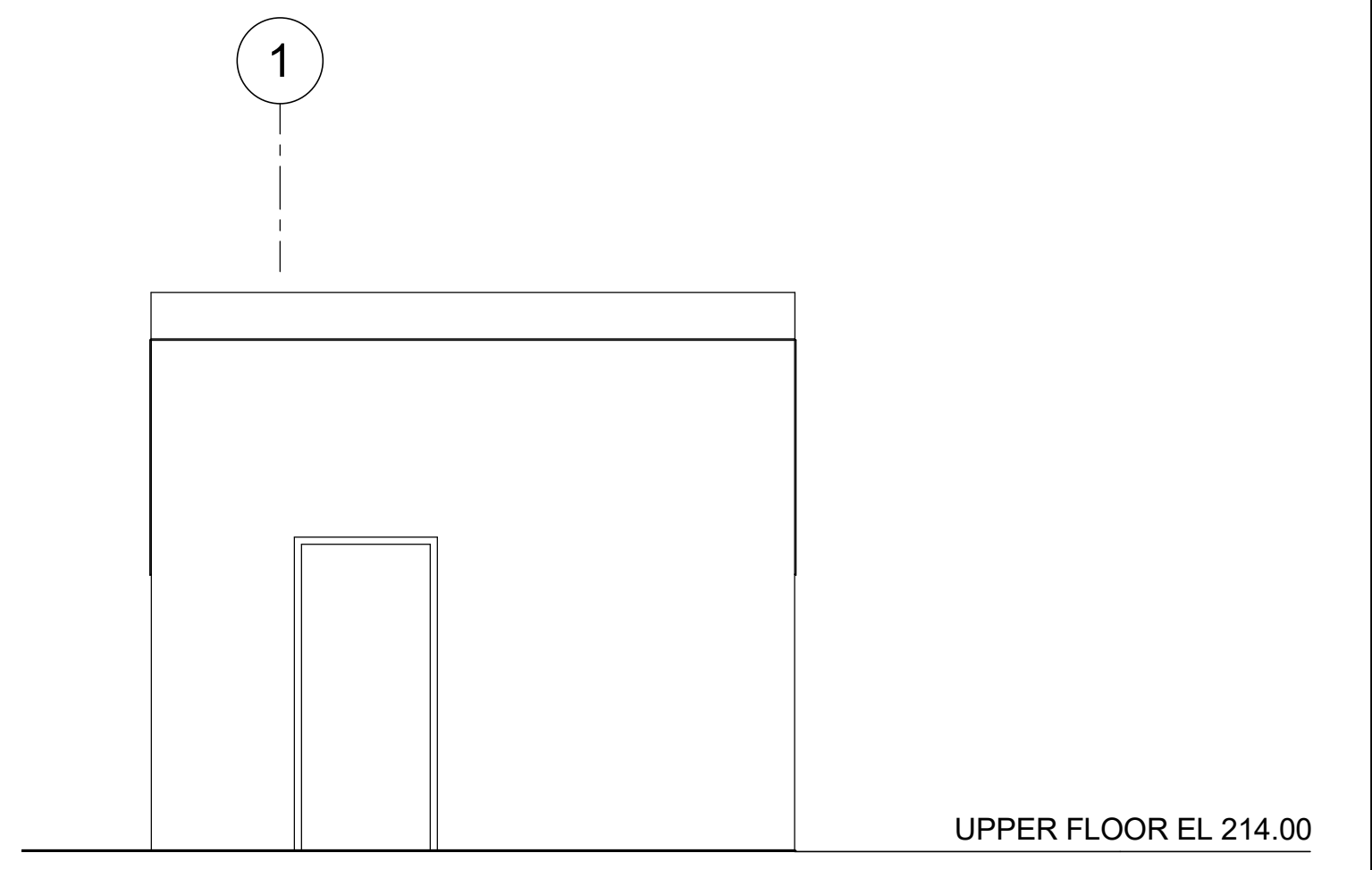
**E2 NORTH ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101



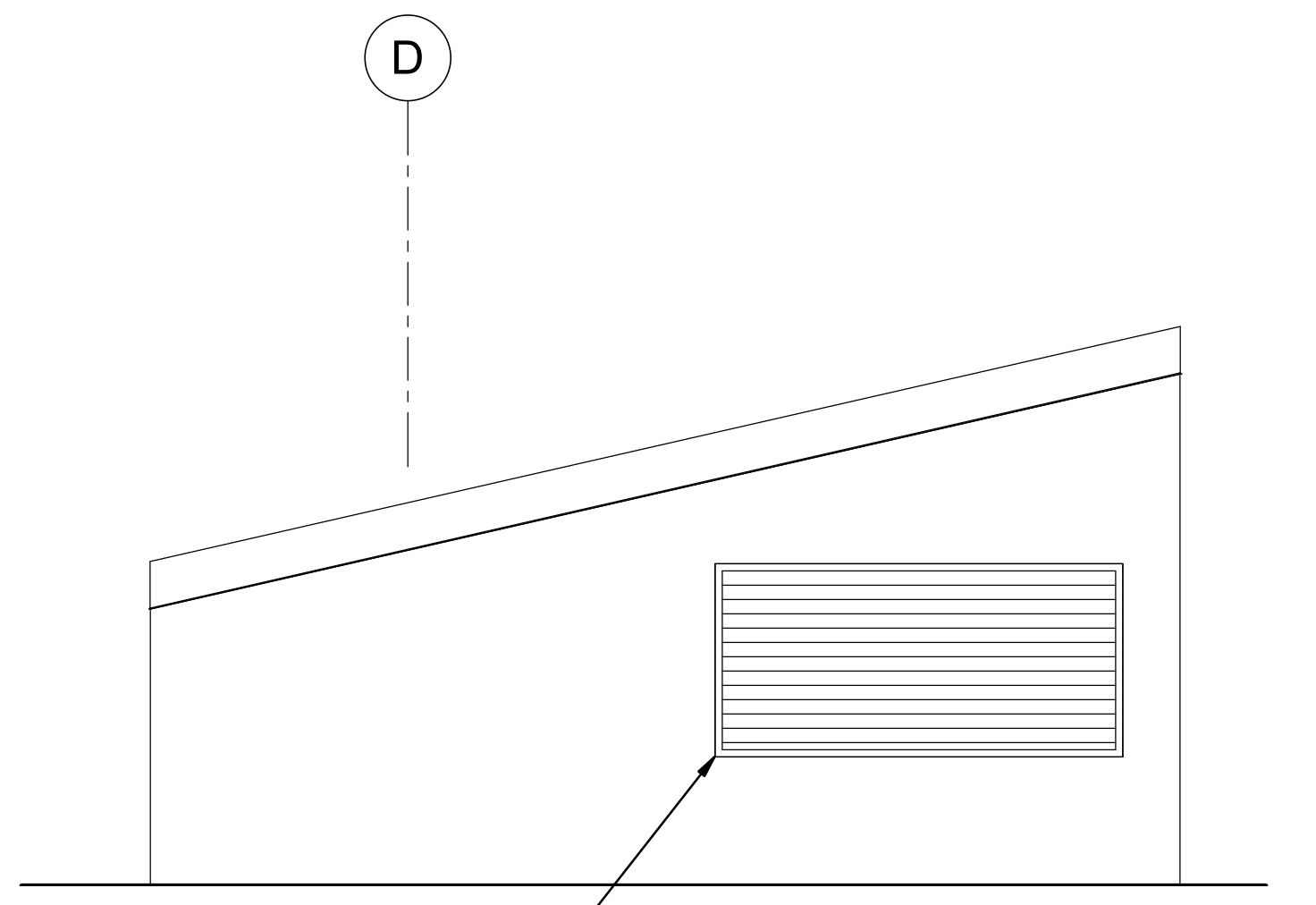
**E4 EAST ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101



**E6 SOUTH ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101

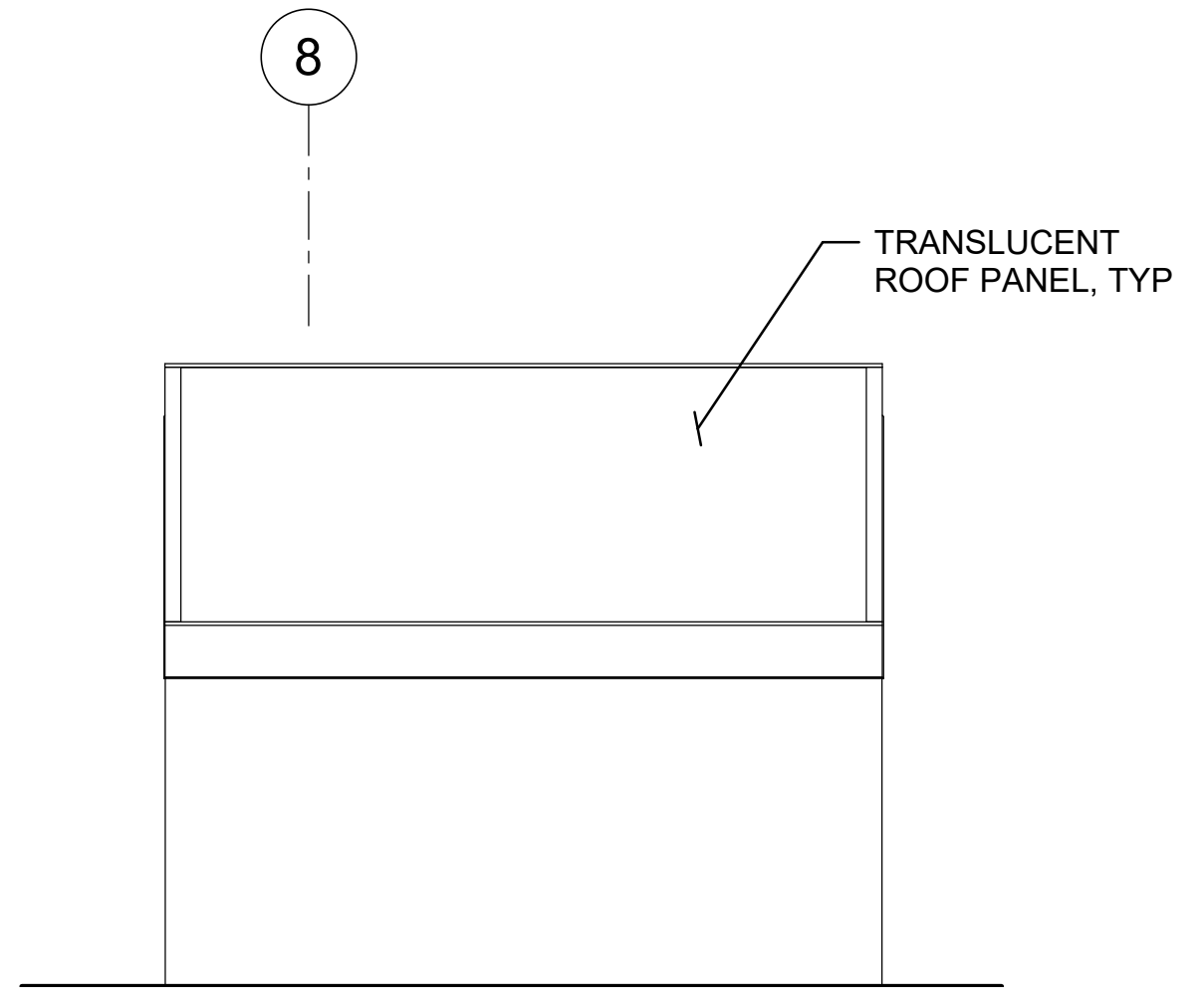


**E8 WEST ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101



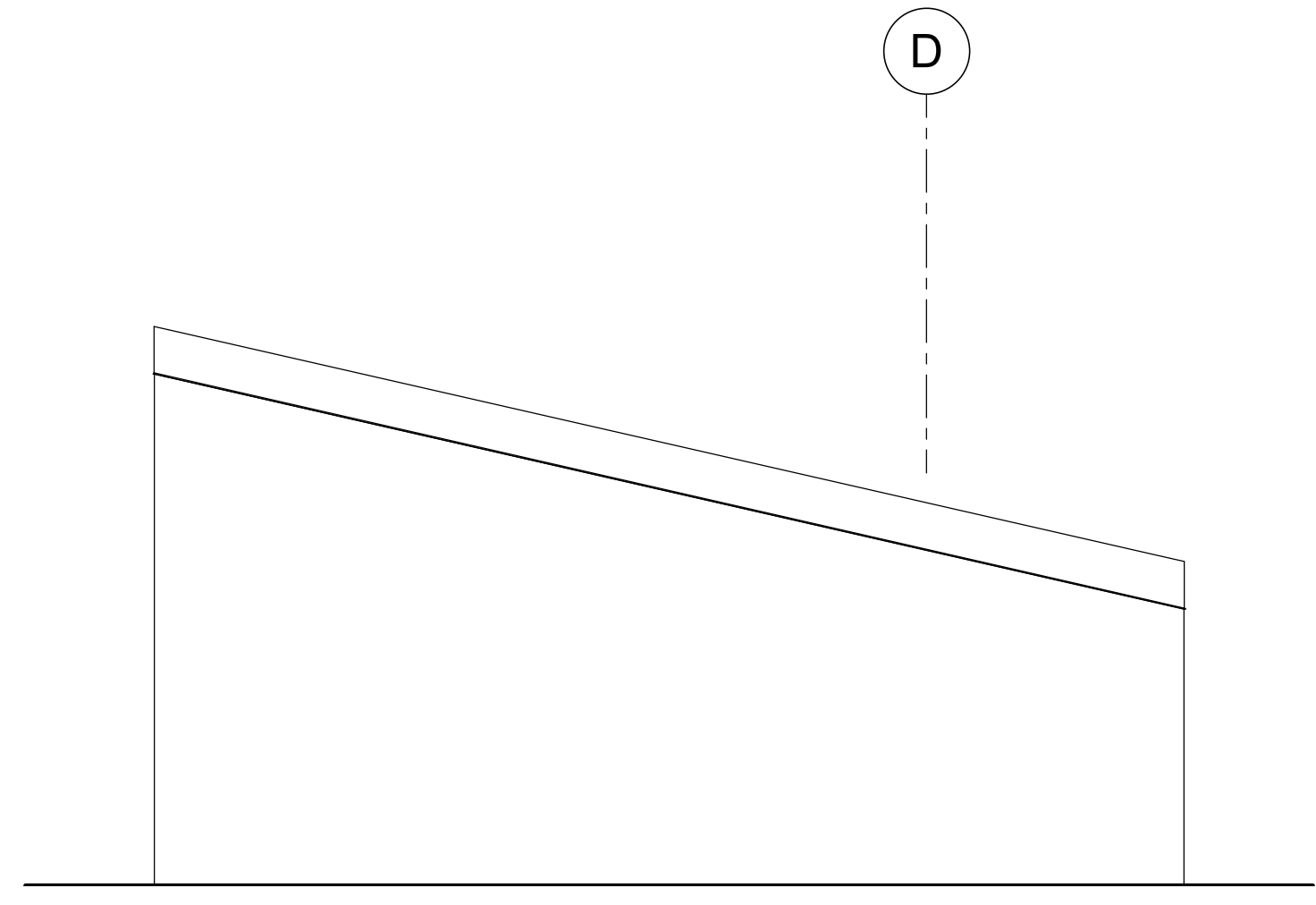
**A2 NORTH ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101

ALUMINUM LOUVER, TYP

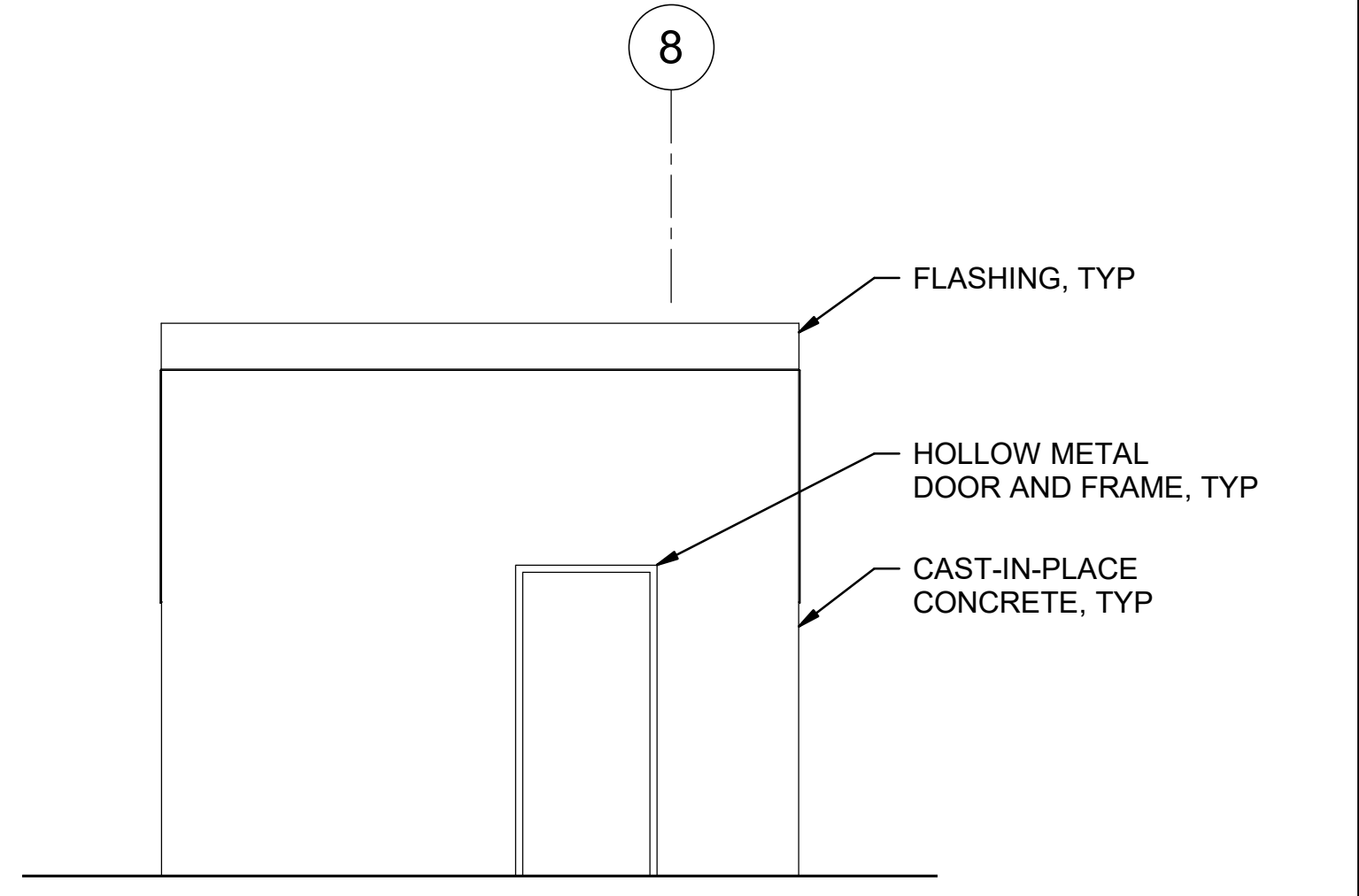


**A4 EAST ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101

TRANSLUCENT ROOF PANEL, TYP



**A6 SOUTH ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101



**A8 WEST ELEVATION**  
1/4" = 1'-0"  
MPG-2165-A-2101

FLASHING, TYP  
HOLLOW METAL DOOR AND FRAME, TYP  
CAST-IN-PLACE CONCRETE, TYP

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2165-S-z3Dn01.rvt  
 9/25/2023 11:32:05 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA

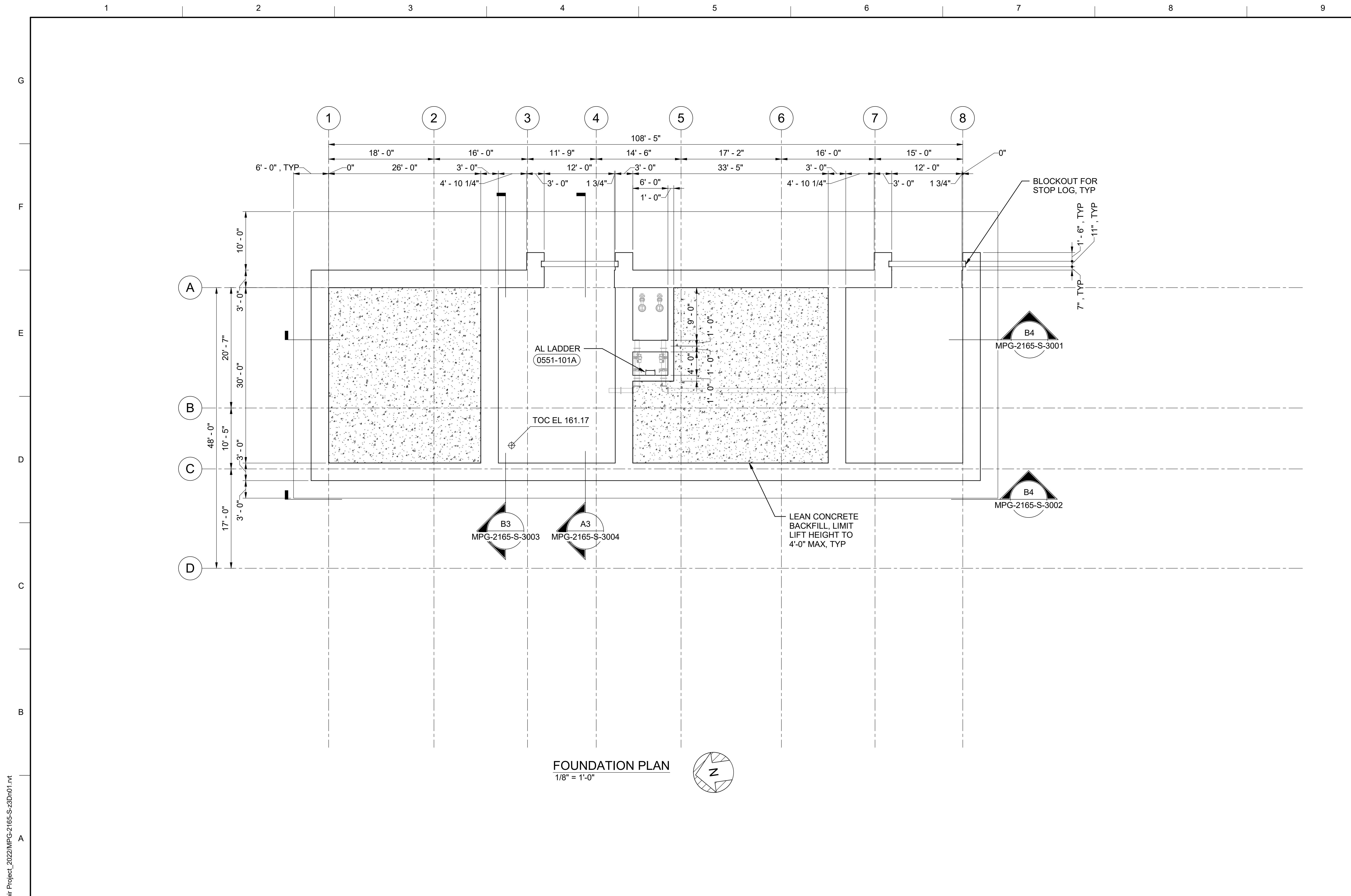


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 EXTERIOR ELEVATIONS

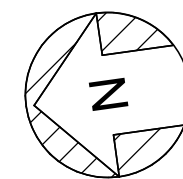
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
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 DRAWING NO.  
 MPG-2165-A-3101  
 SHT 120 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-z3Dn01.rvt  
 9/18/2023 1:35:55 PM



**FOUNDATION PLAN**  
 1/8" = 1'-0"



**GENERAL NOTES**

1. FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
  - A. LATERAL FORCE RESISTING SYSTEM: FLAT-BOTTOM GROUND-SUPPORTED REINFORCED CONCRETE REINFORCED NONSLIDING BASE
  - B. RESPONSE MODIFICATION FACTOR, R = 2
  - C. RISK CATEGORY = III
  - D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.25
  - E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.433

**SHEET KEY NOTES**

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: L. YANG  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

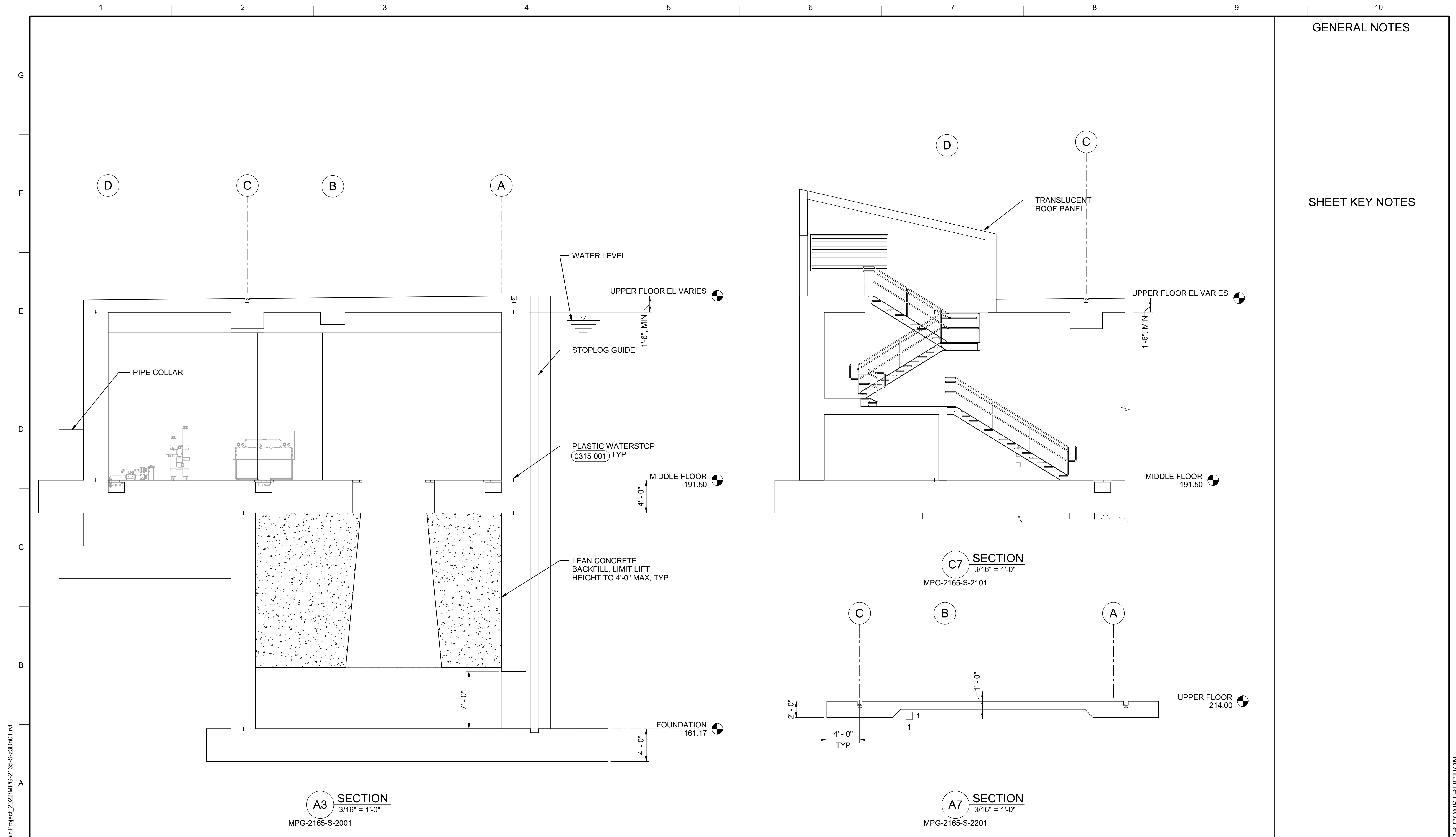


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 GENERATING PLANT  
**FOUNDATION PLAN**

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 1"  
 DRAWING NO.  
 MPG-2165-S-2001  
 SHT 121 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

**A3 SECTION**  
3/16" = 1'-0"  
MPG-2165-S-2001

**C7 SECTION**  
3/16" = 1'-0"  
MPG-2165-S-2101

**A7 SECTION**  
3/16" = 1'-0"  
MPG-2165-S-2201

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-23Dn01.rvt  
 9/18/2023 1:35:59 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. YANG  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



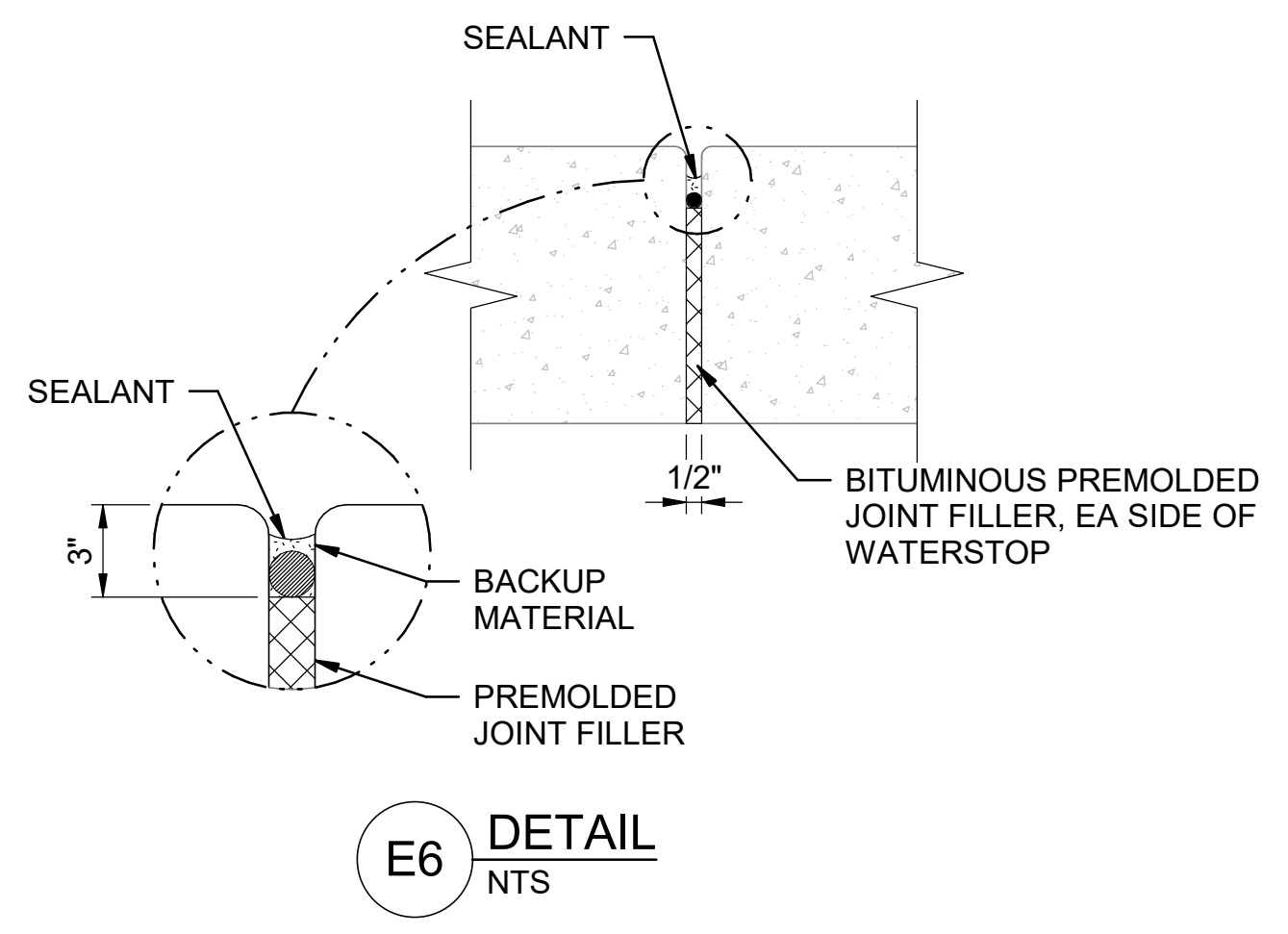
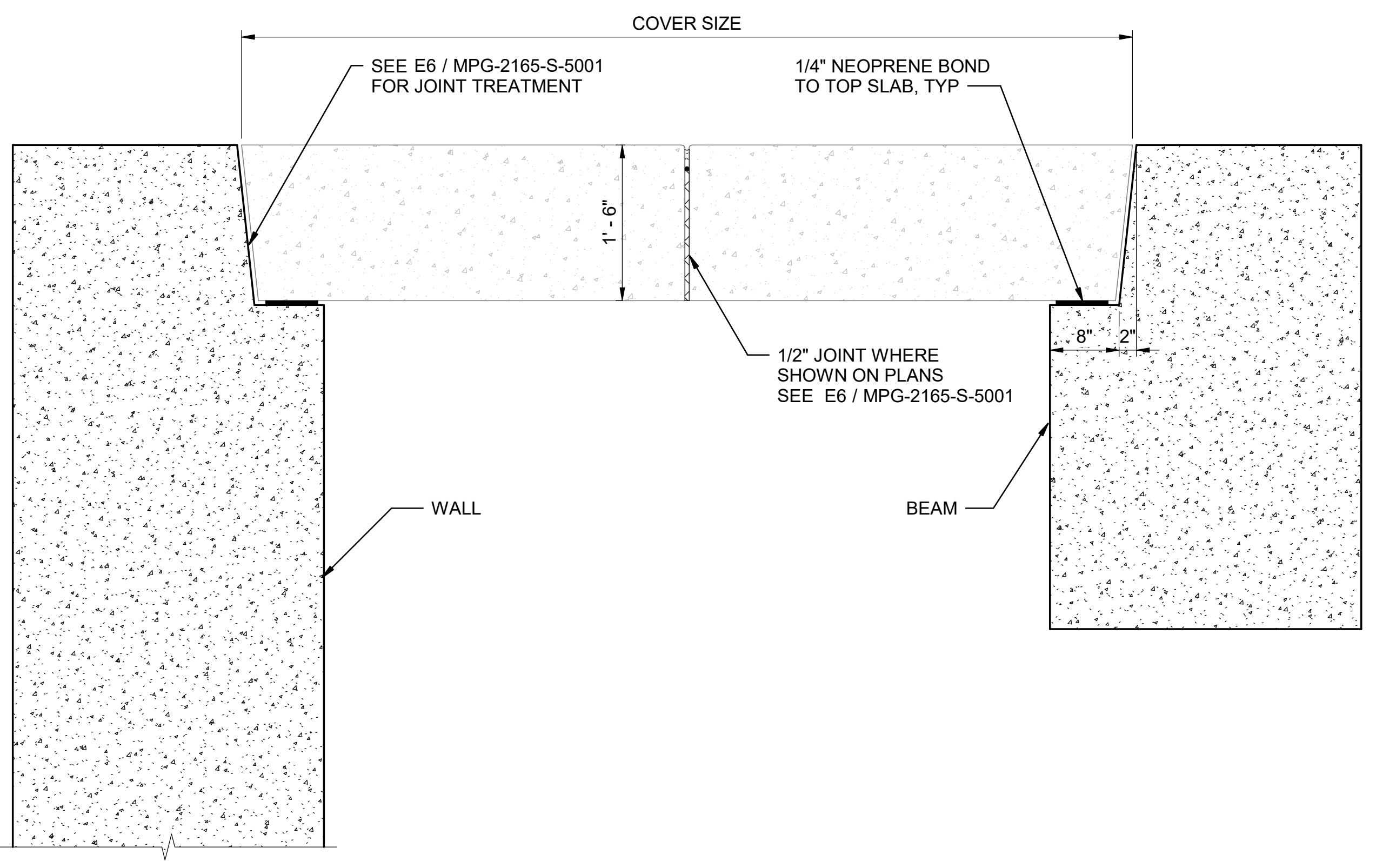
REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 SECTIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2165-S-3004  
 SHT 127 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**D3** DETAIL  
NTS  
MPG-2165-S-3001

GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-S-33Dn01.rvt  
 9/18/2023 1:36:00 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: L. YANG  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

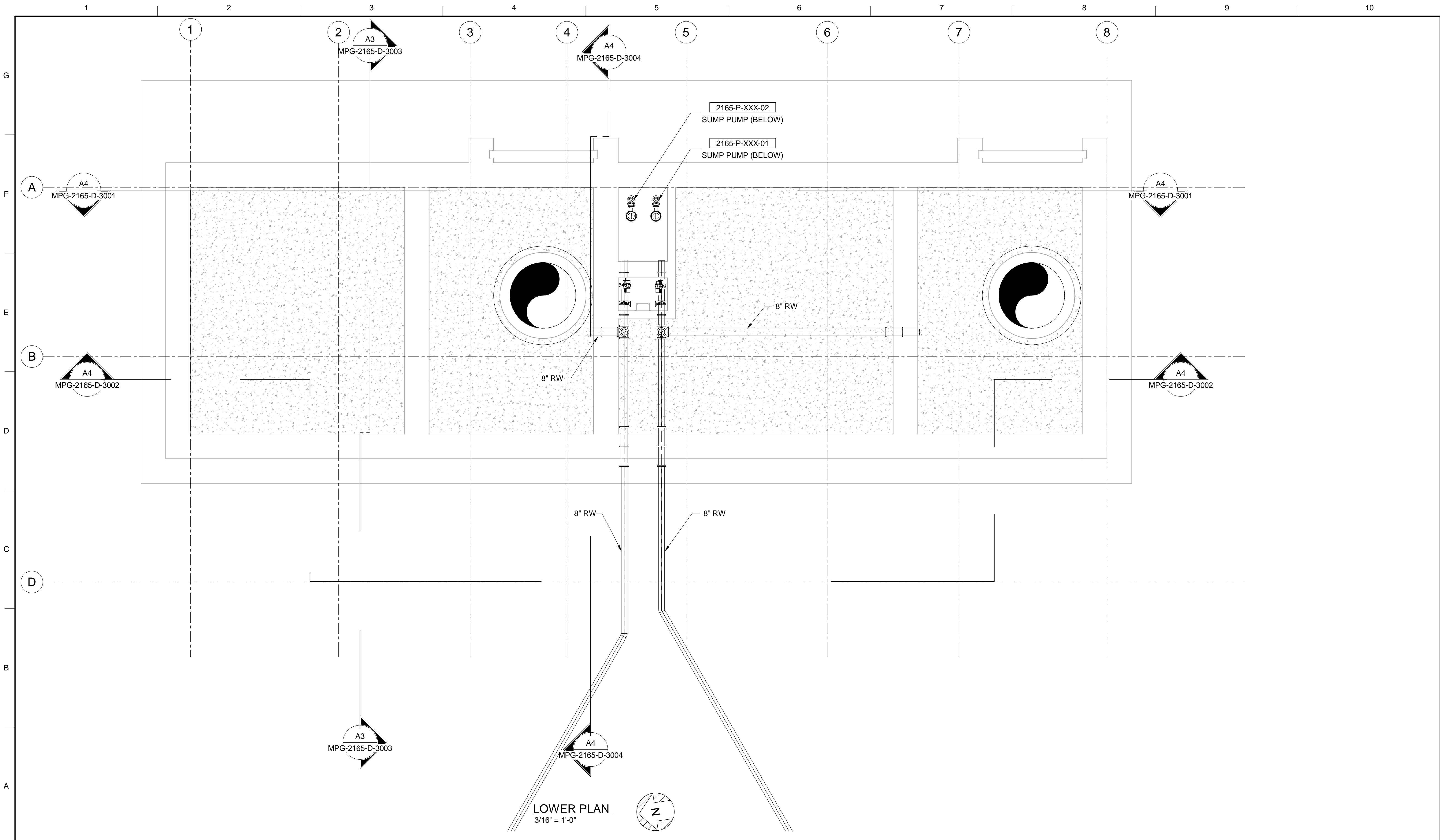


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 DETAILS

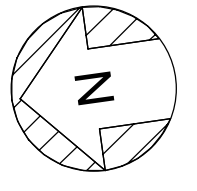
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2165-S-5001  
 SHT 128 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2165-D-z3dn01.rvt  
 9/26/2023 5:09:57 AM



**LOWER PLAN**  
 3/16" = 1'-0"



REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY:  
 C. ISAMAN  
 DRAWN BY:  
 G. MCFARLAND  
 CHECKED BY:  
 E. SCHULTZ  
 IN CHARGE:  
 P. RUDE  
 DATE:  
 10-17-2023



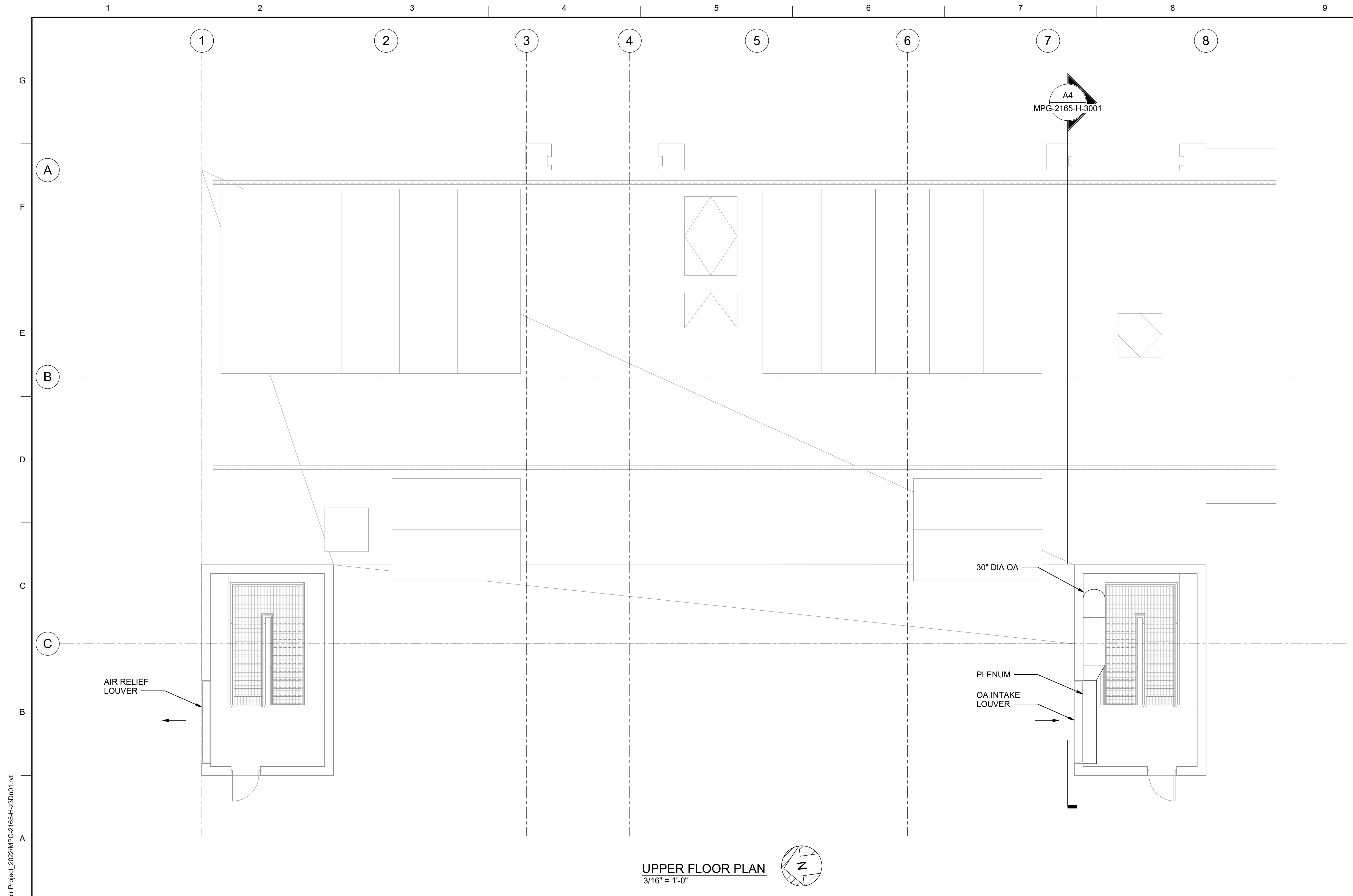
REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 WAYNE J. OHLIN  
 P.E. REG No. 72287  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 PROCESS MECHANICAL  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 LOWER PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2165-D-2101  
 SHT 129 OF 176

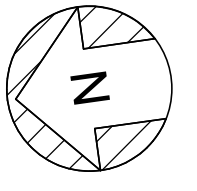
PRELIMINARY - NOT FOR CONSTRUCTION



**GENERAL NOTES**

**SHEET KEY NOTES**

**UPPER FLOOR PLAN**  
3/16" = 1'-0"



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2165-H-z3Dn01.rvt  
 10/3/2023 12:49:47 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: S. SHRIF  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



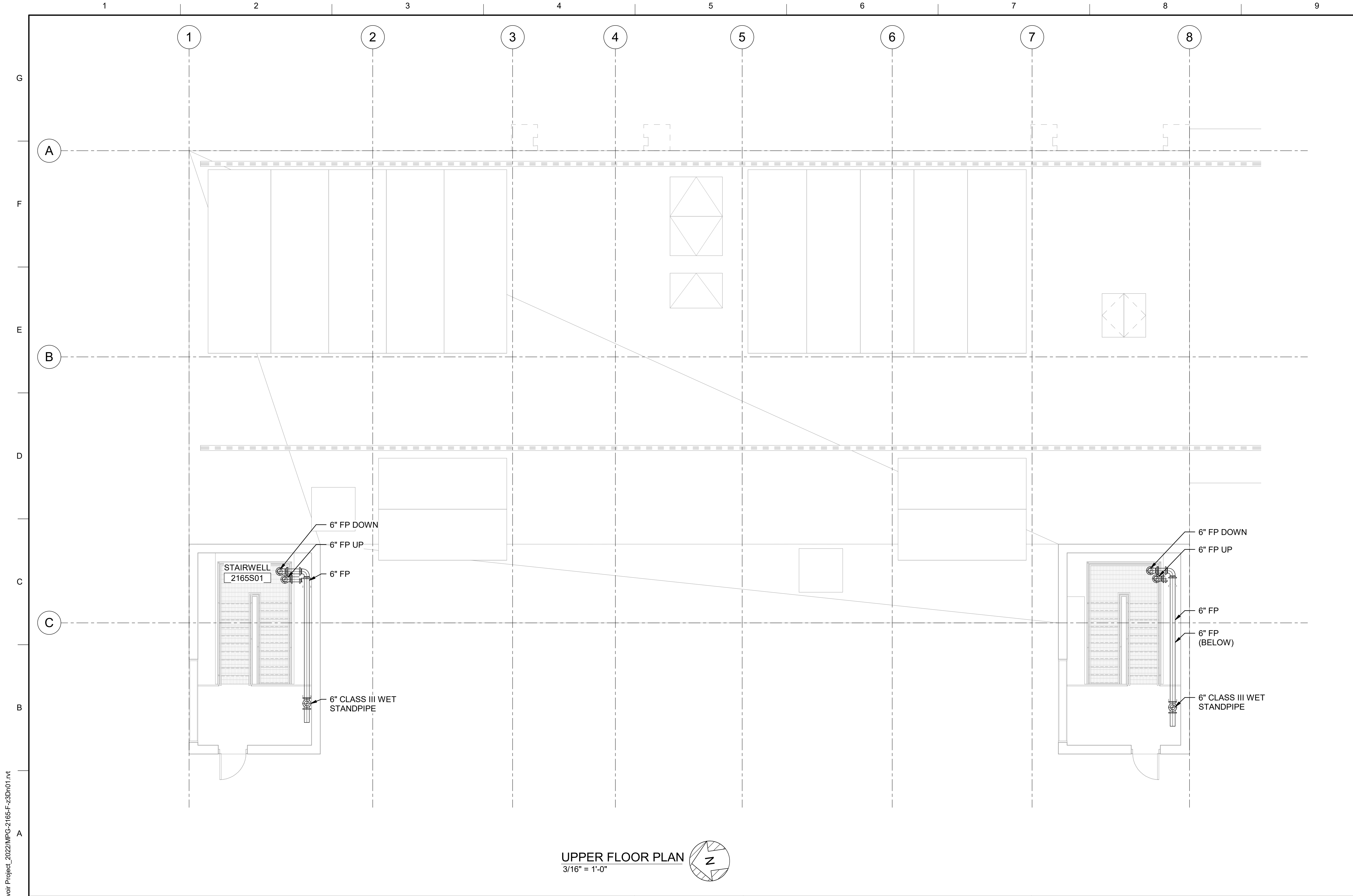
**SITES RESERVOIR**  
**MAXWELL/SITES PUMPING AND GENERATING**  
**HVAC**  
**FUNKS RESERVOIR**  
**GENERATING PLANT**  
**UPPER FLOOR PLAN**

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 0 1"  
 DRAWING NO. MPG-2165-H-2201  
 SHT 136 OF 176

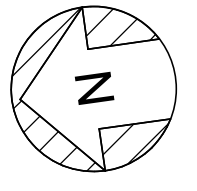
PRELIMINARY - NOT FOR CONSTRUCTION





**GENERAL NOTES**

**UPPER FLOOR PLAN**  
3/16" = 1'-0"



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2165-F-z3Dn01.rvt  
 9/25/2023 7:45:23 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: J. CUTZ  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



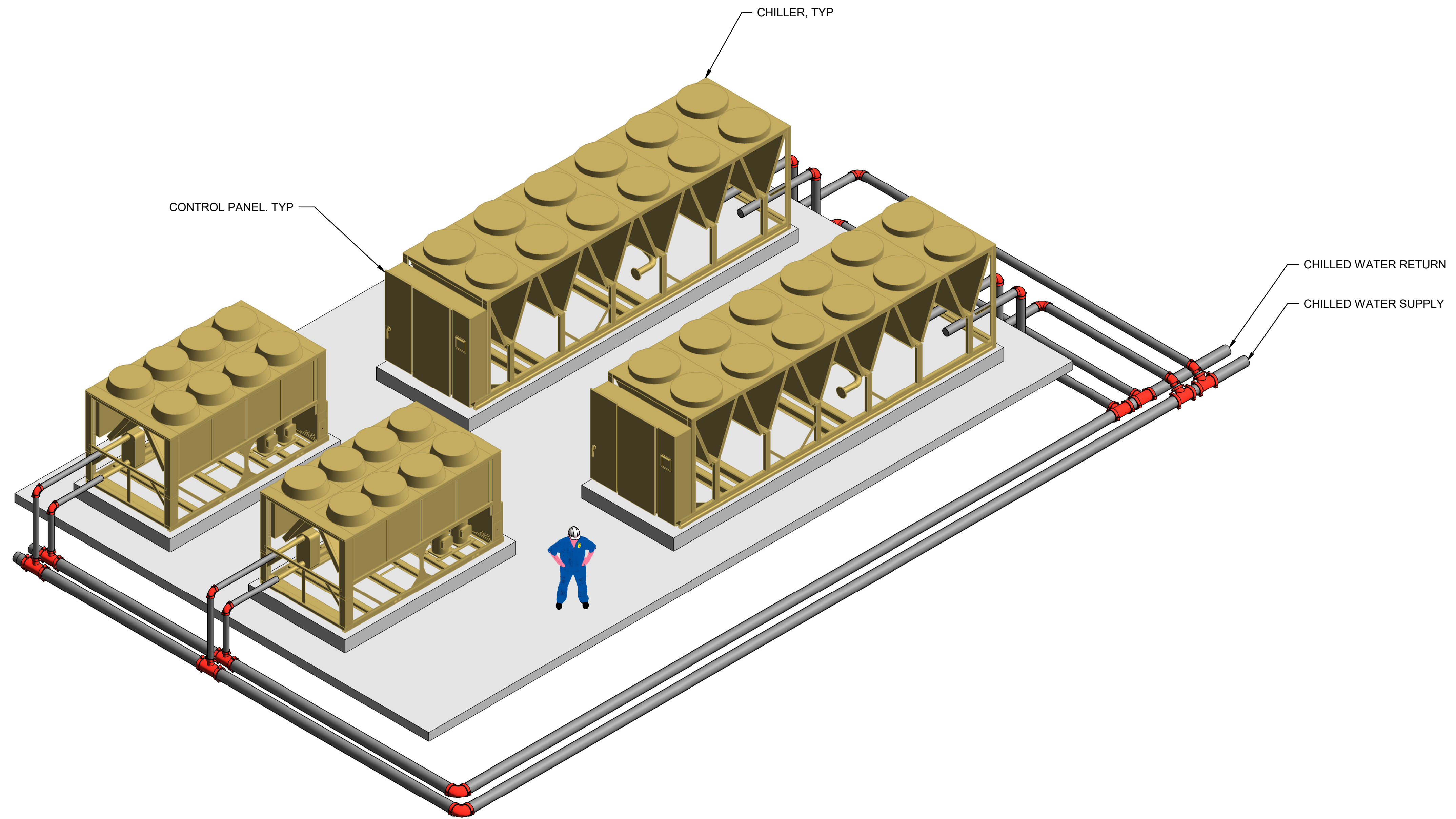
REGISTERED PROFESSIONAL ENGINEER  
 TED J. PRICE  
 P.E. REG No. 36413  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 FIRE PROTECTION  
 FUNKS RESERVOIR  
 GENERATING PLANT  
 UPPER FLOOR PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2165-F-2201  
 SHT 139 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - CHILLER YARD

BIN 360//10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
10/12/2023 2:36:24 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: D. CAVE  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



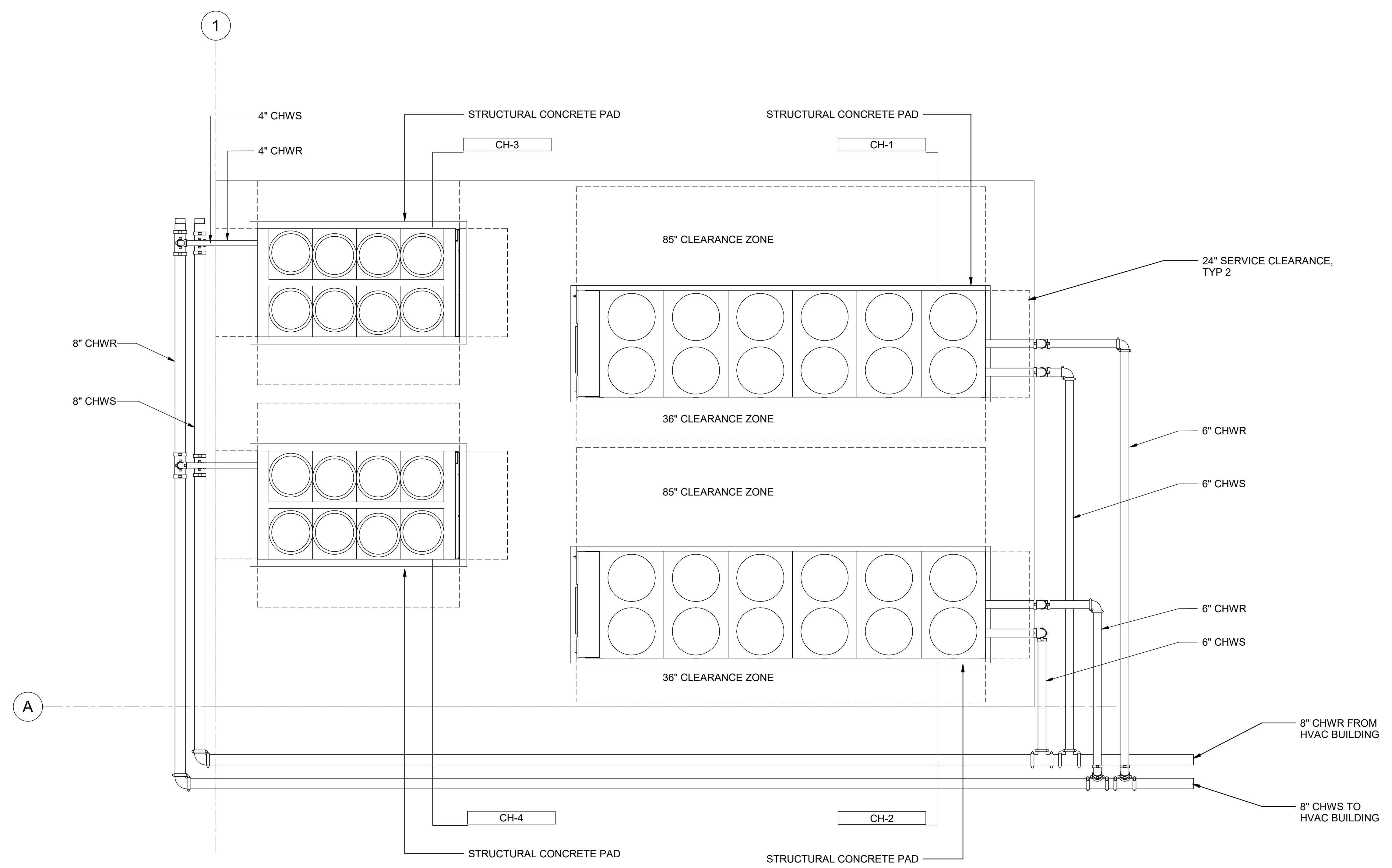
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 CHILLER YARD  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2170-G-0001  
 SHT 141 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. AREA ABOVE UNIT IS REQUIRED FOR OPERATION, MAINTENANCE, ACCESS PANEL AND AIRFLOW. NO OBSTRUCTIONS ABOVE UNIT.
2. FOR OBSTRUCTIONS OR MULTIPLE UNITS, REFER TO THE CLOSE SPACE BULLETIN.
3. CLEARANCE OF 85" ON THE SIDE OF THE UNIT IS REQUIRED FOR COIL REPLACEMENT. PREFERRED SIDE IS SHOWN (LEFT SIDE OF UNIT AS FACING THE MAIN CONTROL PANEL OR CIRCUIT 1 CONTROL PANEL). HOWEVER, EITHER SIDE IS ACCEPTABLE.



**FOUNDATION PLAN**  
1/4" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2170-H-z3Dn01.rvt  
 10/5/2023 3:47:28 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: P. RAUSCH  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 HVAC  
 FUNKS RESERVOIR  
 CHILLER YARD  
 FOUNDATION PLAN

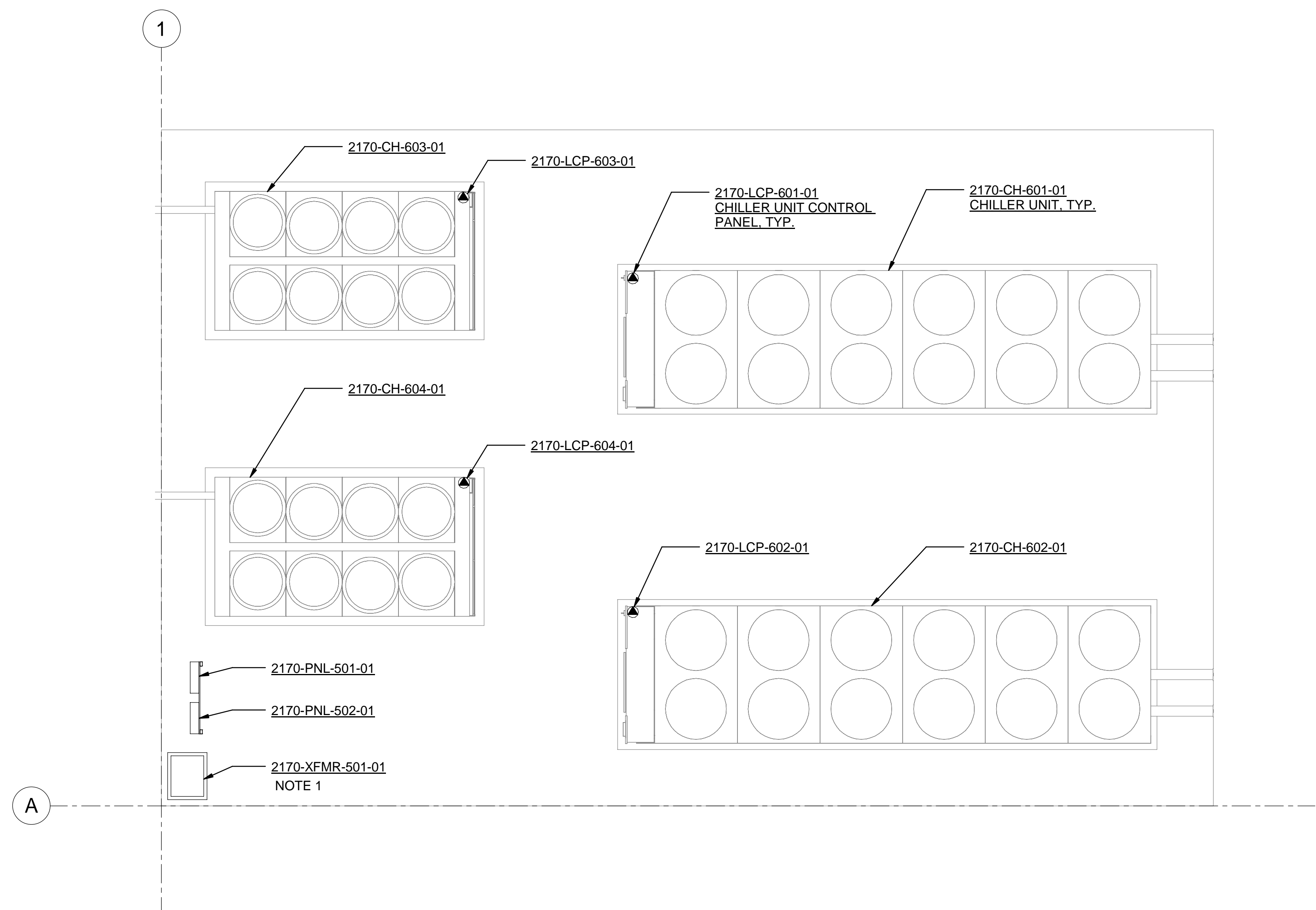
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2170-H-2001  
 SHT 142 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

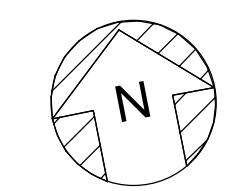
**GENERAL NOTES**

1. TRANSFORMER AND PANELBOARD ENCLOSURES SHALL BE RATED NEMA 3R.

**SHEET KEY NOTES**



**FOUNDATION PLAN**  
1/4" = 1'-0"



B:\360\10333221\_Site Reservoir Project\_2022\MPG-2170-E-z3Dn01.rvt 10/12/2023 11:08:54 AM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: C. CUSWORTH  
 DRAWN BY: R. SHARMA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



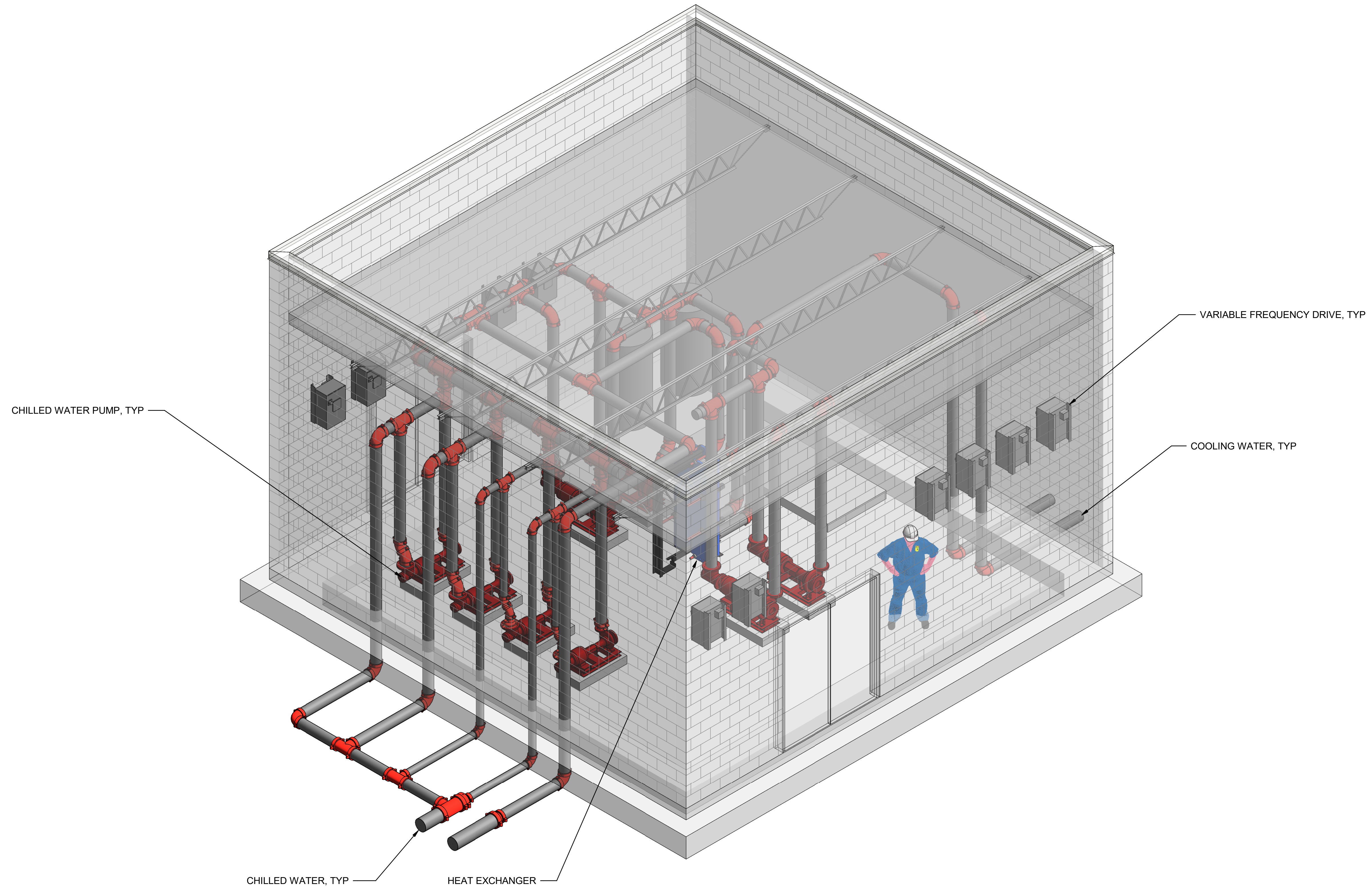
REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/SITES PUMPING AND GENERATING  
 ELECTRICAL  
 FUNKS RESERVOIR  
 CHILLER YARD  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2170-E-2001  
 SHT 144 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - HVAC BUILDING

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
 10/16/2023 12:07:00 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S. SHRIEF  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 SHRIEF E SHRIEF  
 P.E. REG No. 39122  
 CALIFORNIA



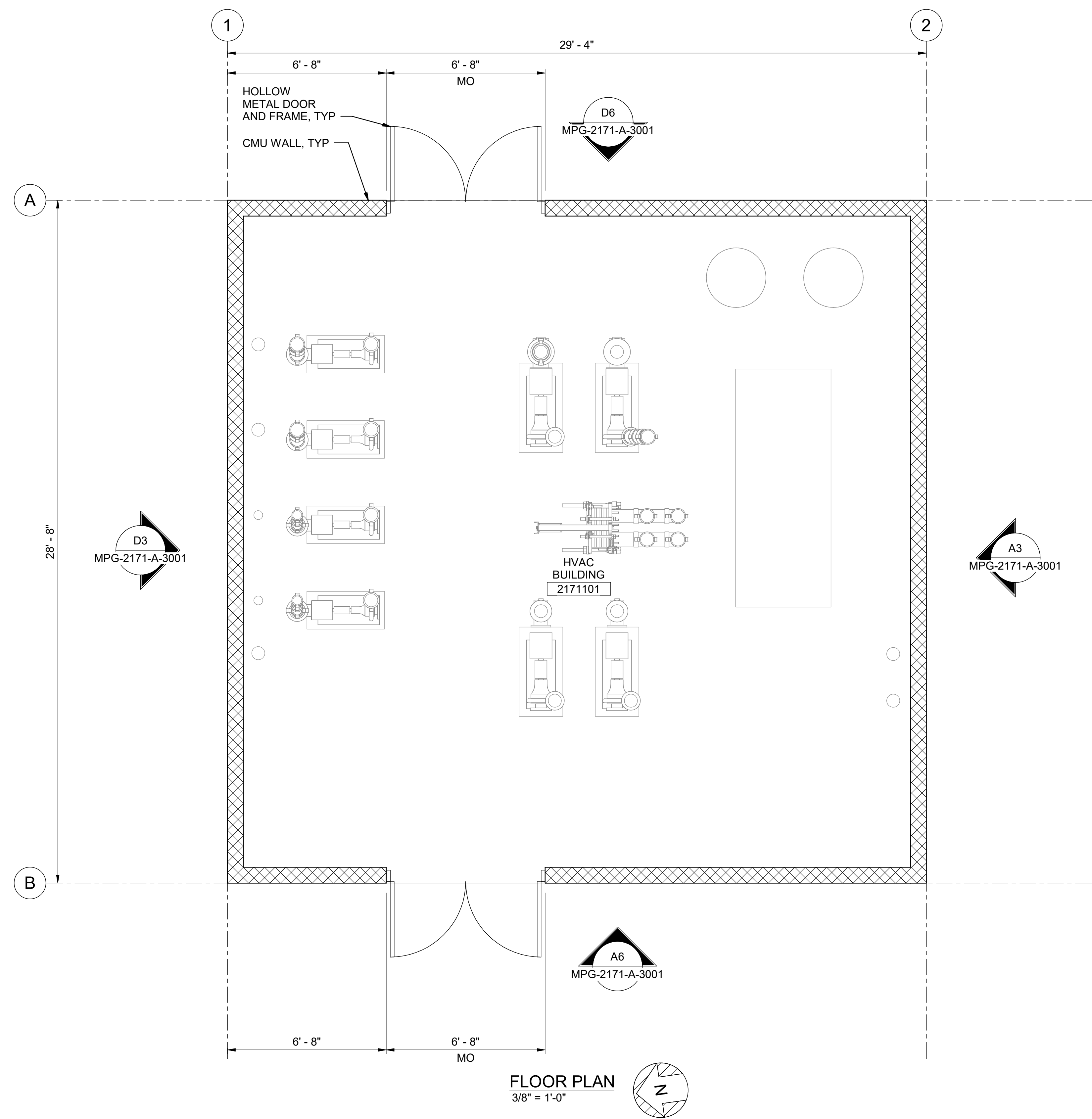
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2171-G-0001  
 SHT 145 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0007.



**FLOOR PLAN**  
3/8" = 1'-0"

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2171-S-z3Dn01.rvt  
 10/16/2023 8:14:43 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: **M. KIRKPATRICK**  
 DRAWN BY: **M. COLLINS**  
 CHECKED BY: **G. KIRSTEN**  
 IN CHARGE: **P. RUDE**  
 DATE: **10-17-2023**



REGISTERED  
 LICENSED  
 ARCHITECT  
**GEOFFREY B KIRSTEN**  
 L.A. REG No. C-33068  
 CALIFORNIA



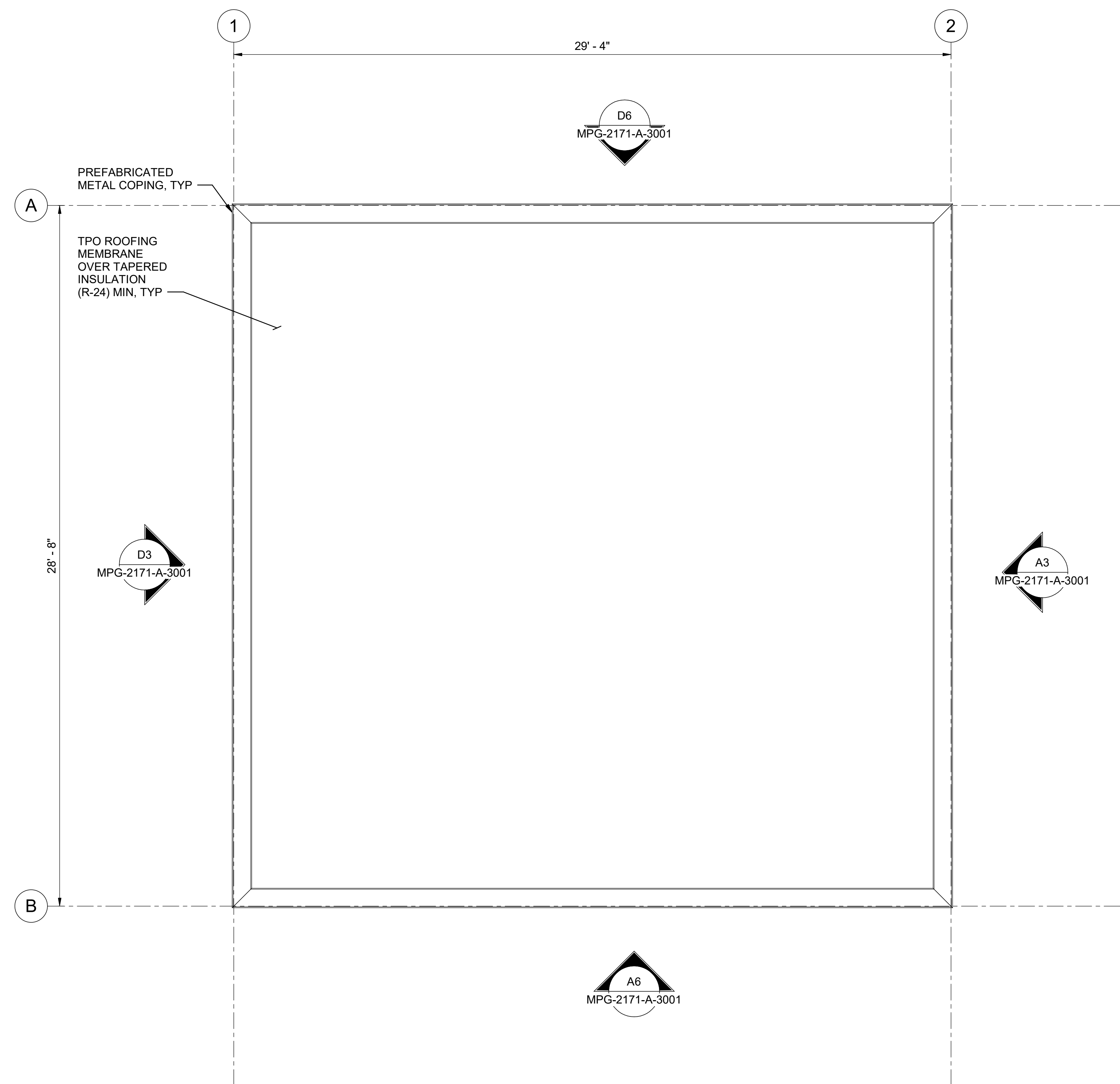
**SITES RESERVOIR**  
**MAXWELL / SITES PUMPING AND GENERATING**  
**ARCHITECTURAL**  
**FUNKS RESERVOIR**  
**HVAC BUILDING**  
**FLOOR PLAN**

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2171-A-2001  
 SHT 146 OF 176

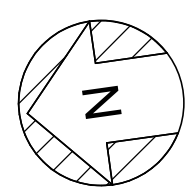
PRELIMINARY - NOT FOR CONSTRUCTION

**GENERAL NOTES**

1. FOR ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING MPG-0001-G-0201.
2. FOR CODE DATA AND LIFE SAFETY PLAN, SEE DRAWING MPG-0001-G-0007.



**ROOF PLAN**  
3/8" = 1'-0"



BIM 360//1033322\_Site Reservoir Project\_2022/MPG-2171-S-z3Dn01.rvt  
 9/25/2023 11:07:01 AM

REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



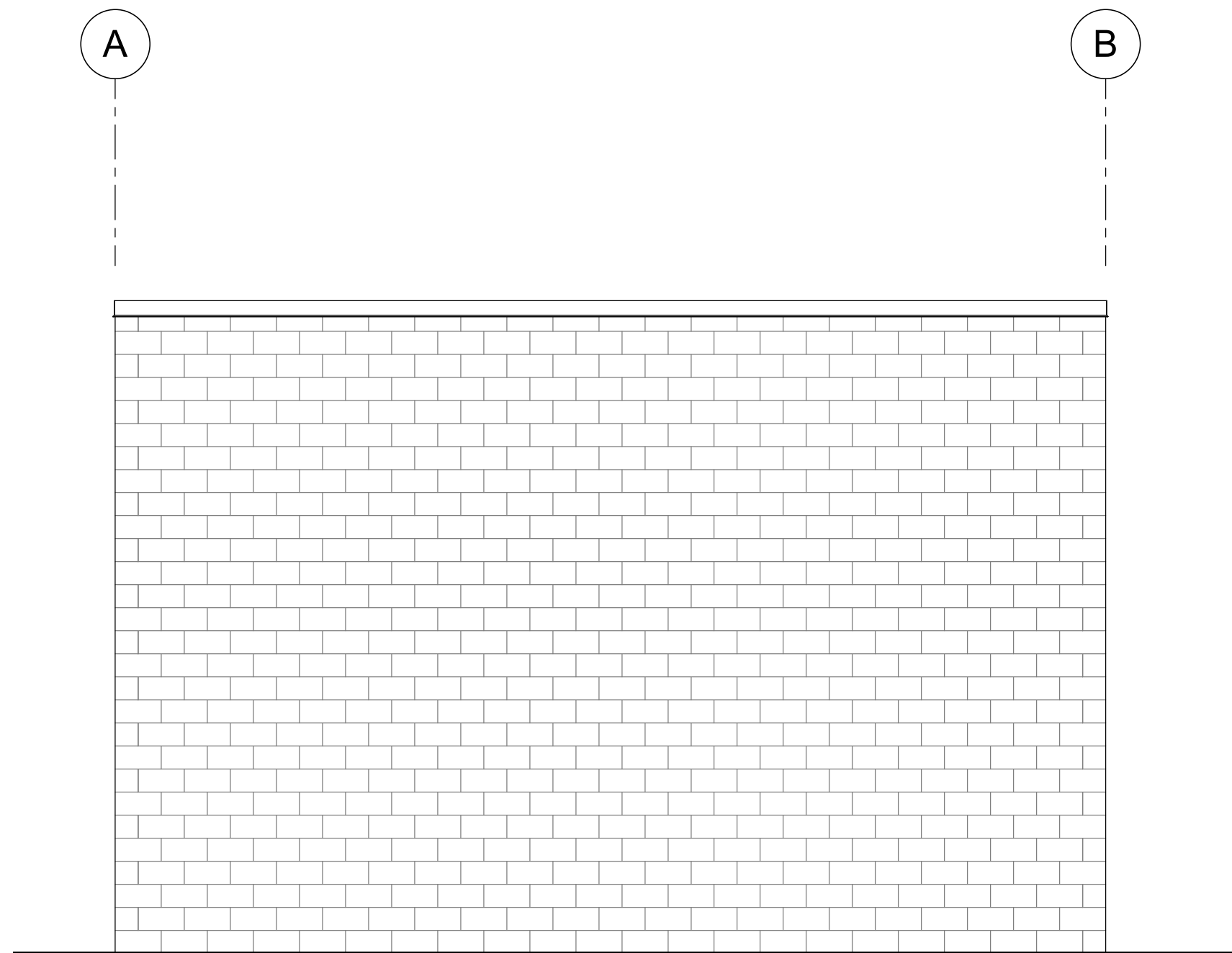
REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA



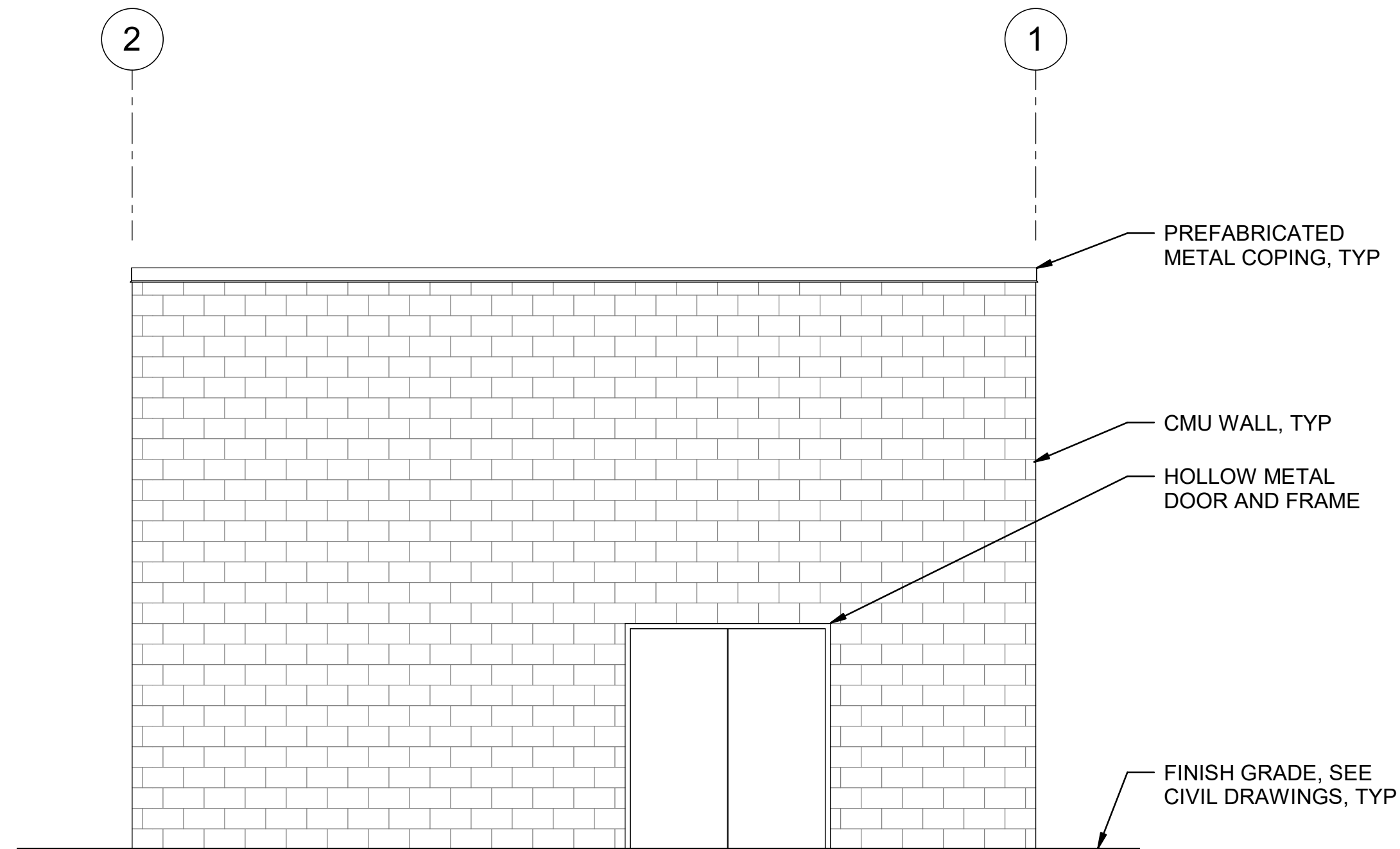
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 ROOF PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2171-A-2101  
 SHT 147 OF 176

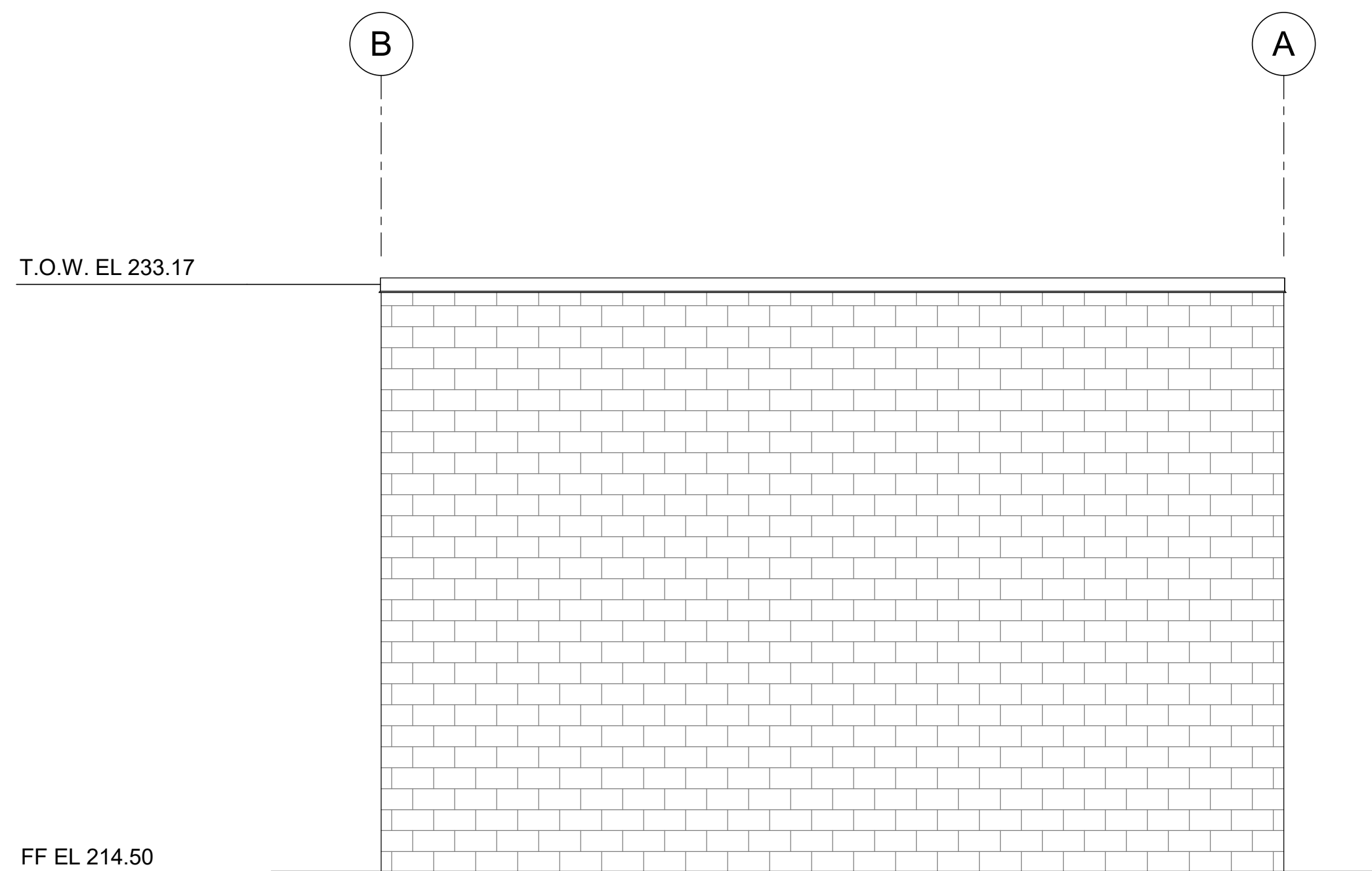
PRELIMINARY - NOT FOR CONSTRUCTION



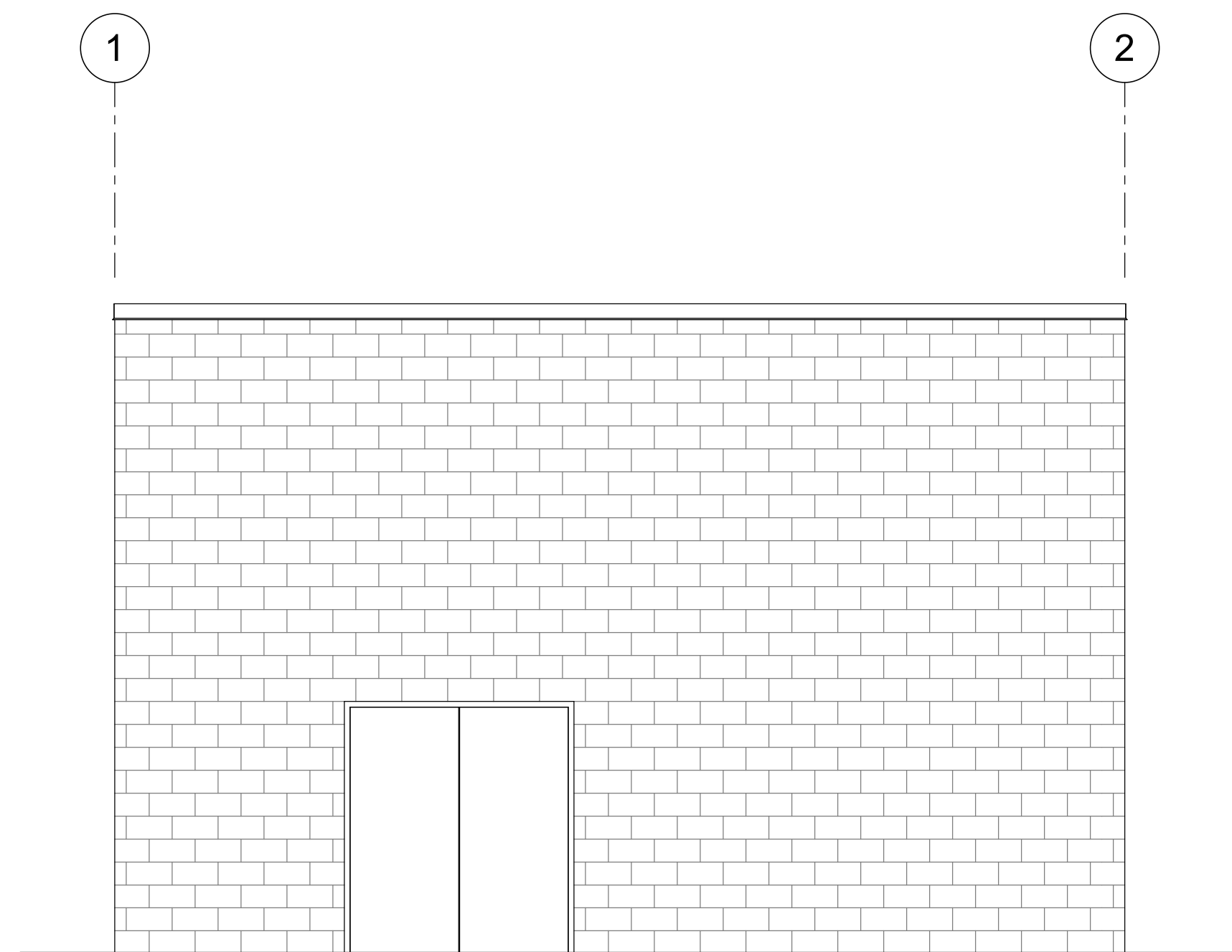
**D3 NORTH ELEVATION**  
1/4" = 1'-0"  
MPG-2171-A-2001



**D6 EAST ELEVATION**  
1/4" = 1'-0"  
MPG-2171-A-2001



**A3 SOUTH ELEVATION**  
1/4" = 1'-0"  
MPG-2171-A-2001



**A6 WEST ELEVATION**  
1/4" = 1'-0"  
MPG-2171-A-2001

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2171-S-3Dn01.rvt  
 9/25/2023 11:07:03 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: M. KIRKPATRICK  
 DRAWN BY: M. COLLINS  
 CHECKED BY: G. KIRSTEN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 LICENSED  
 ARCHITECT  
 GEOFFREY B KIRSTEN  
 L.A. REG No. C-33068  
 CALIFORNIA

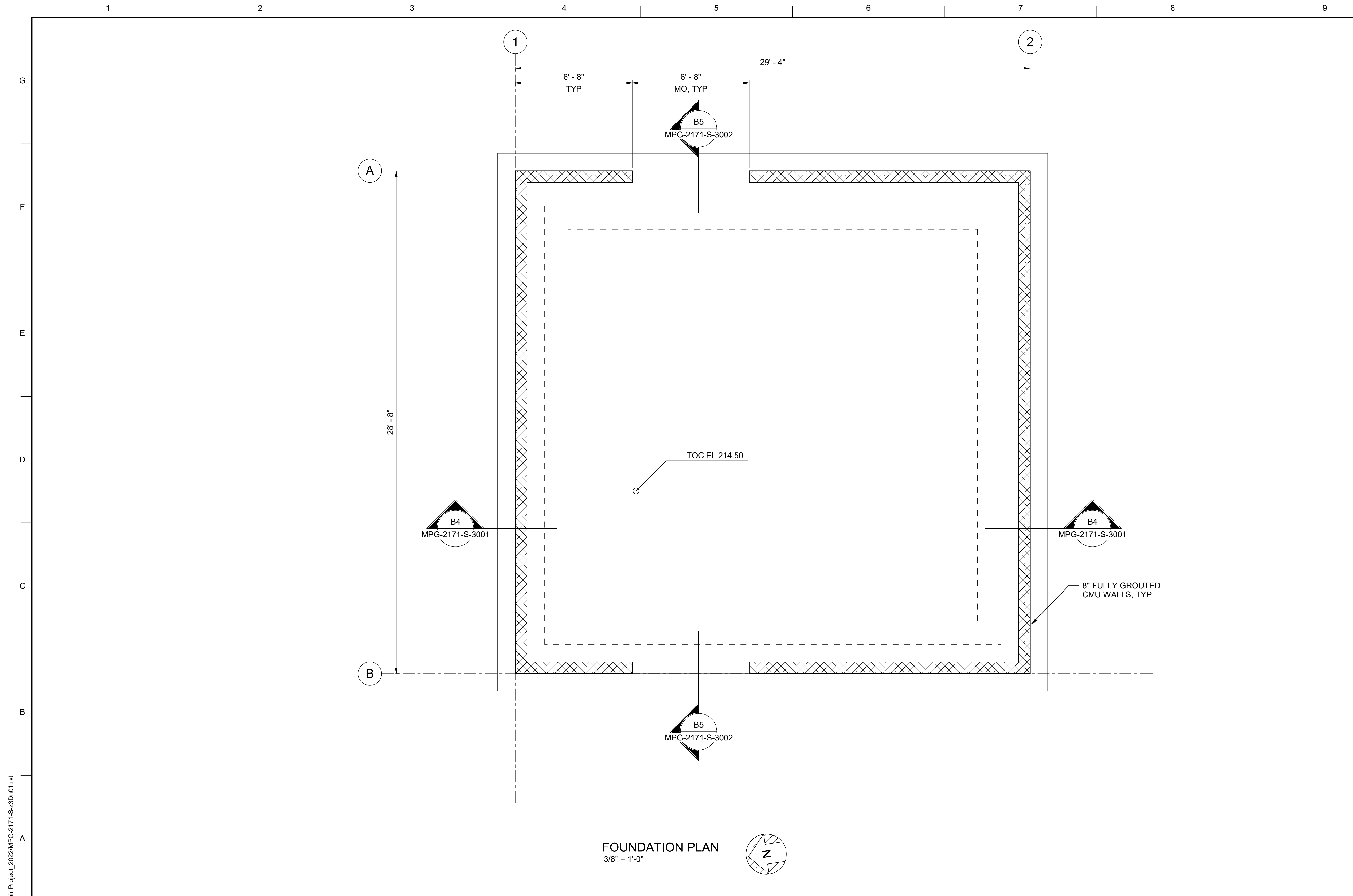


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 ARCHITECTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 EXTERIOR ELEVATIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2171-A-3001  
 SHT 148 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





**GENERAL NOTES**

1. SEISMIC LATERAL FORCE RESISTING SYSTEM:  
 A. LATERAL FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS  
 B. RESPONSE MODIFICATION FACTOR, R = 5  
 C. RISK CATEGORY = II  
 D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0  
 E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.134

**SHEET KEY NOTES**

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2171-S-3Dn01.rvt  
 9/19/2023 9:07:32 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

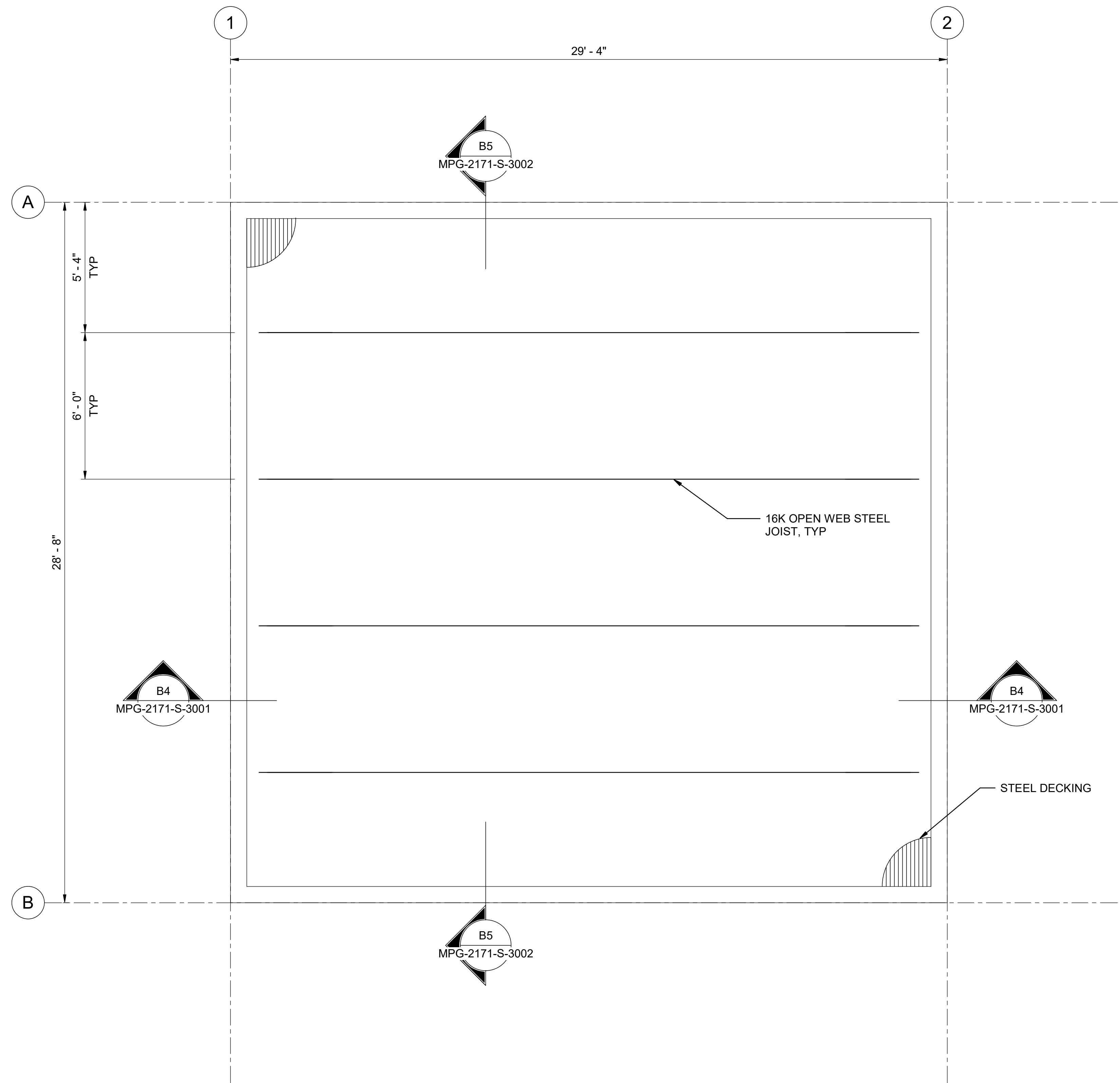
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



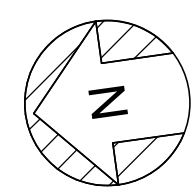
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 FOUNDATION PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2171-S-2001  
 SHT 149 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**ROOF PLAN**  
3/8" = 1'-0"



**GENERAL NOTES**

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**SHEET KEY NOTES**

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2171-S-z3Dn01.rvt  
 9/13/2023 1:57:54 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION


DESIGNED BY: L. DARNELL  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 ROOF PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
  
 DRAWING NO. MPG-2171-S-2101  
 SHT 150 OF 176

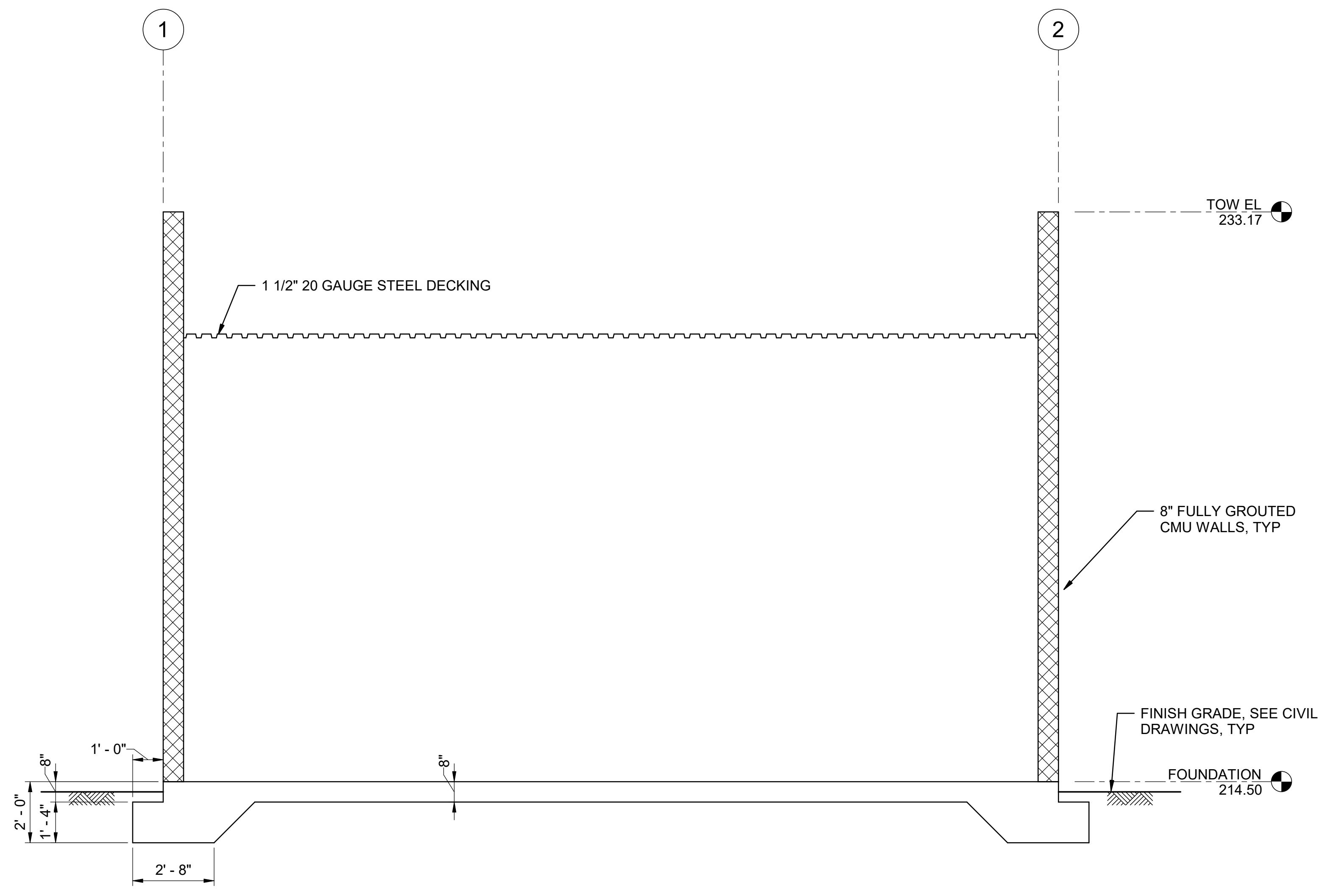
PRELIMINARY - NOT FOR CONSTRUCTION

1 2 3 4 5 6 7 8 9 10

G  
F  
E  
D  
C  
B  
A

GENERAL NOTES

SHEET KEY NOTES



**B4 SECTION**  
3/8" = 1'-0"  
MPG-2171-S-2001

TOW EL.  
233.17

8" FULLY GROUTED  
CMU WALLS, TYP

FINISH GRADE, SEE CIVIL  
DRAWINGS, TYP

FOUNDATION  
214.50

2'-0"  
1'-4"  
1'-0"  
8"

6"

2'-8"

B:\360\10333221\_Site Reservoir Project\_2022\MPG-2171-S-3Dn01.rvt  
9/13/2023 1:57:54 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:  
L. DARNELL  
DRAWN BY:  
A. GAWOR  
CHECKED BY:  
H. HENRIKSON  
IN CHARGE:  
P. RUDE  
DATE:  
10-17-2023



REGISTERED  
PROFESSIONAL  
ENGINEER  
JEREMY KELLOGG  
P.E. REG No. 5698  
CALIFORNIA



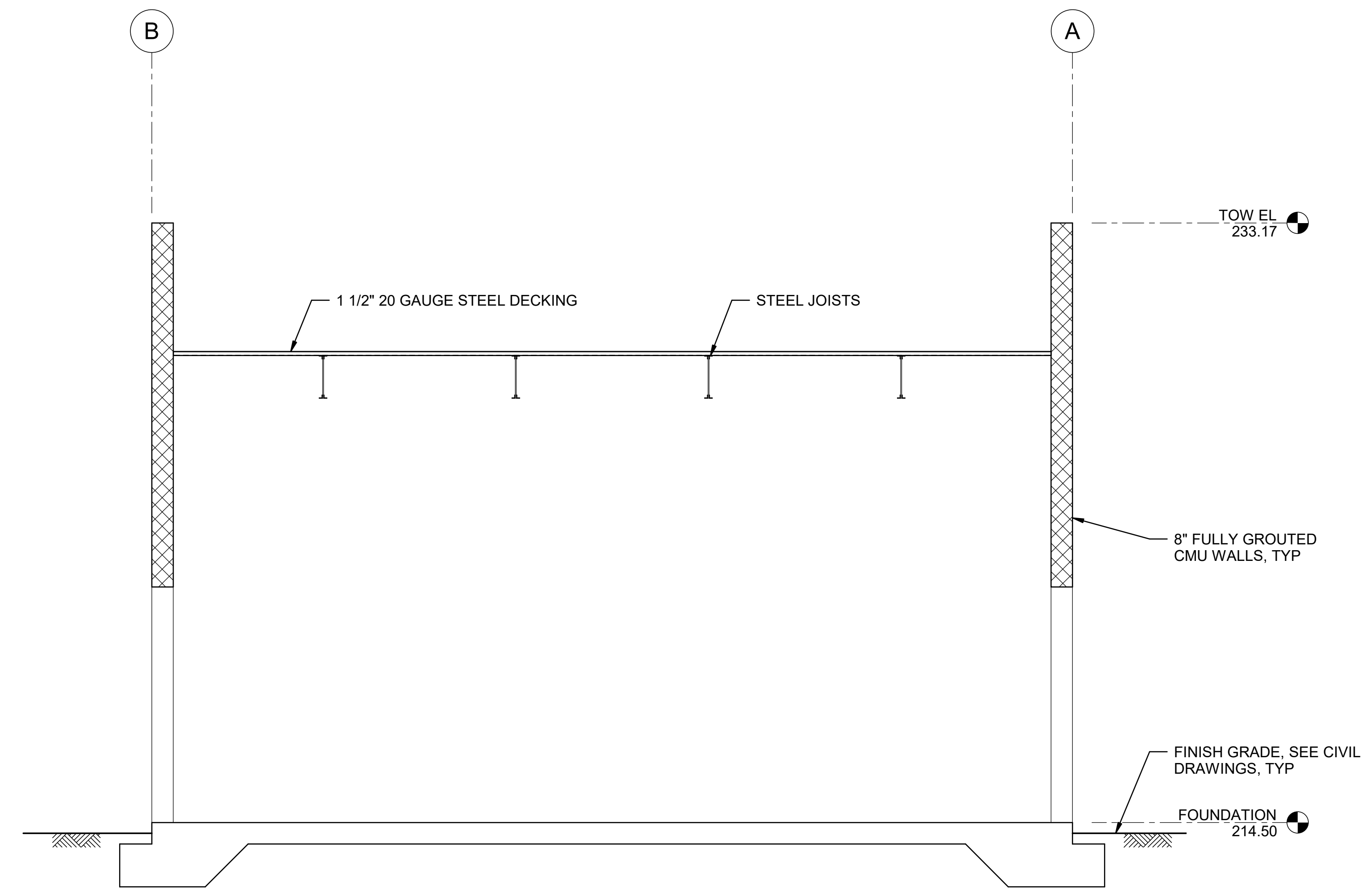
**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
STRUCTURAL  
FUNKS RESERVOIR  
HVAC BUILDING  
SECTION

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL  
DRAWING. ADJUST SCALES FOR  
REDUCED PLOTS  
0 1"  
DRAWING NO.  
MPG-2171-S-3001  
SHT 151 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES

SHEET KEY NOTES



**B5 SECTION**  
3/8" = 1'-0"  
MPG-2171-S-2001

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2171-S-3Dn01.rvt  
 9/13/2023 1:57:54 PM

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

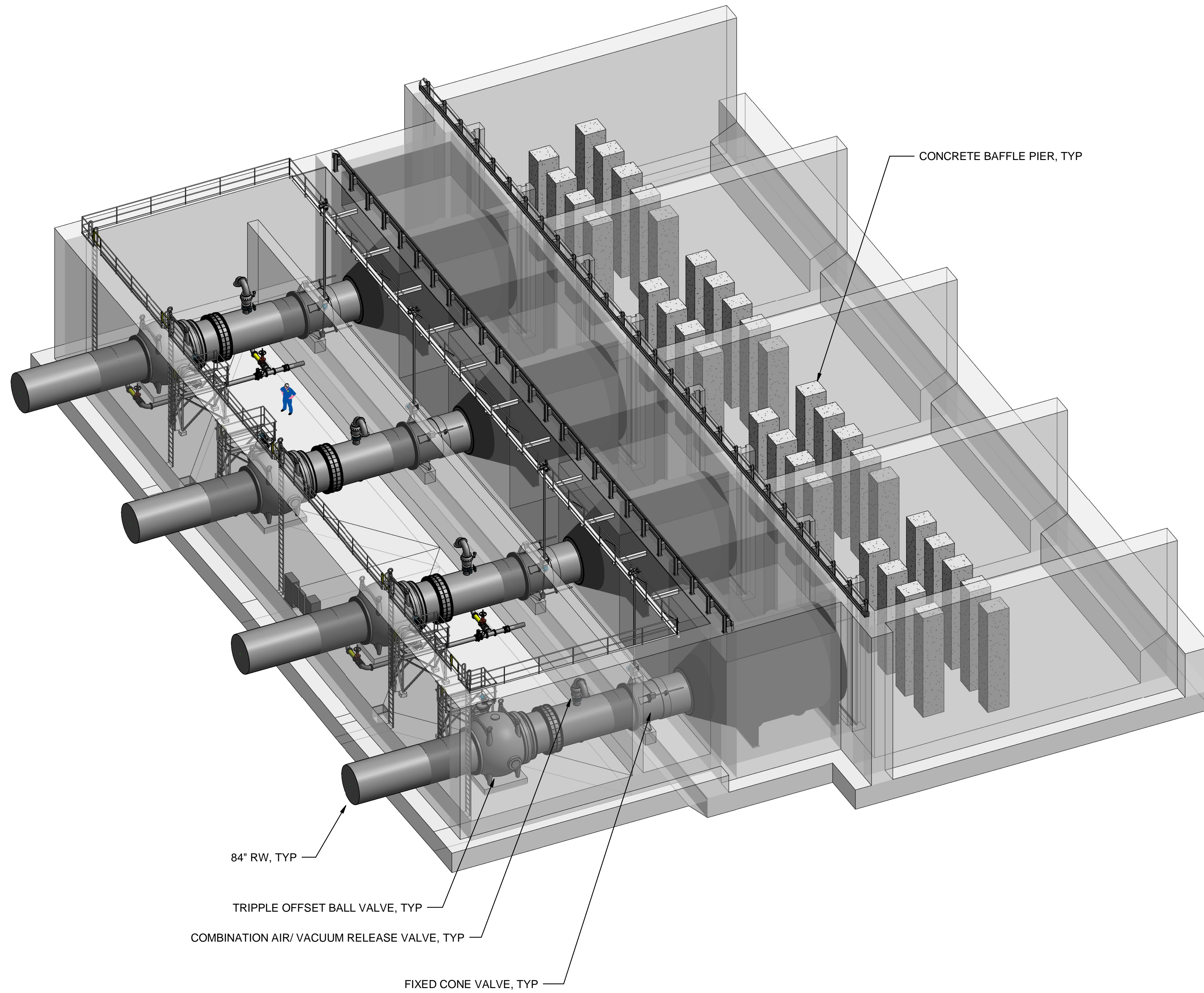


REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 HVAC BUILDING  
 SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2171-S-3002  
 SHT 152 OF 176



CONCRETE BAFFLE PIER, TYP

84\"/>

TRIPPLE OFFSET BALL VALVE, TYP

COMBINATION AIR/ VACUUM RELEASE VALVE, TYP

FIXED CONE VALVE, TYP

ISOMETRIC - EMERGENCY DISSIPATION STRUCTURE

BIM 360//1033322\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt  
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REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: K. PARIS  
 DRAWN BY: D. CAVE  
 CHECKED BY: W. OHLIN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 KERILYN PARIS  
 P.E. REG No. 87908  
 CALIFORNIA

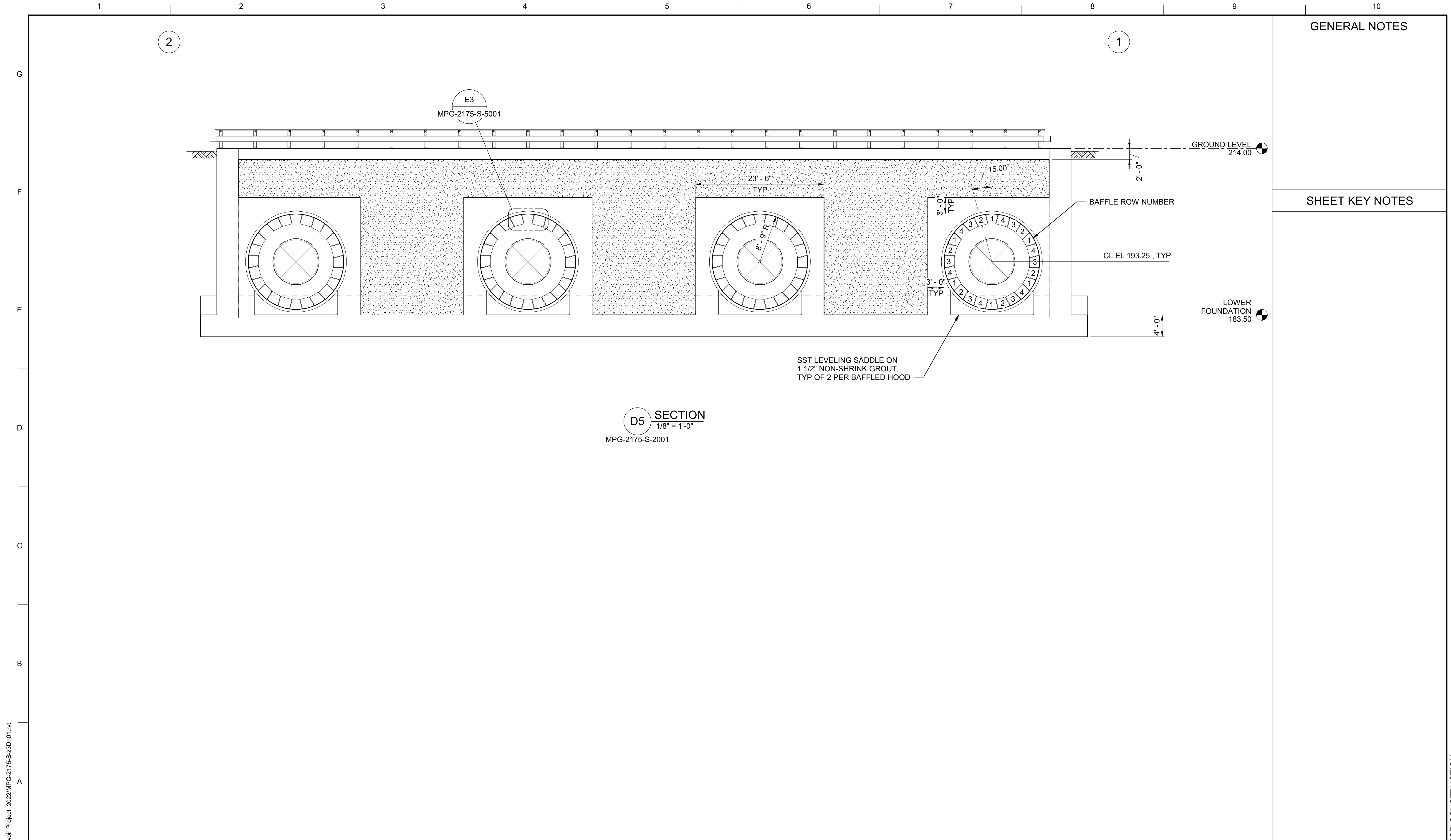


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL  
 FUNKS RESERVOIR  
 EMERGENCY DISSIPATION STRUCTURE  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  

 1"  
 DRAWING NO.  
 MPG-2175-G-0001  
 SHT 155 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2175-S-3Dn01.rvt  
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REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: J. KELLOGG  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

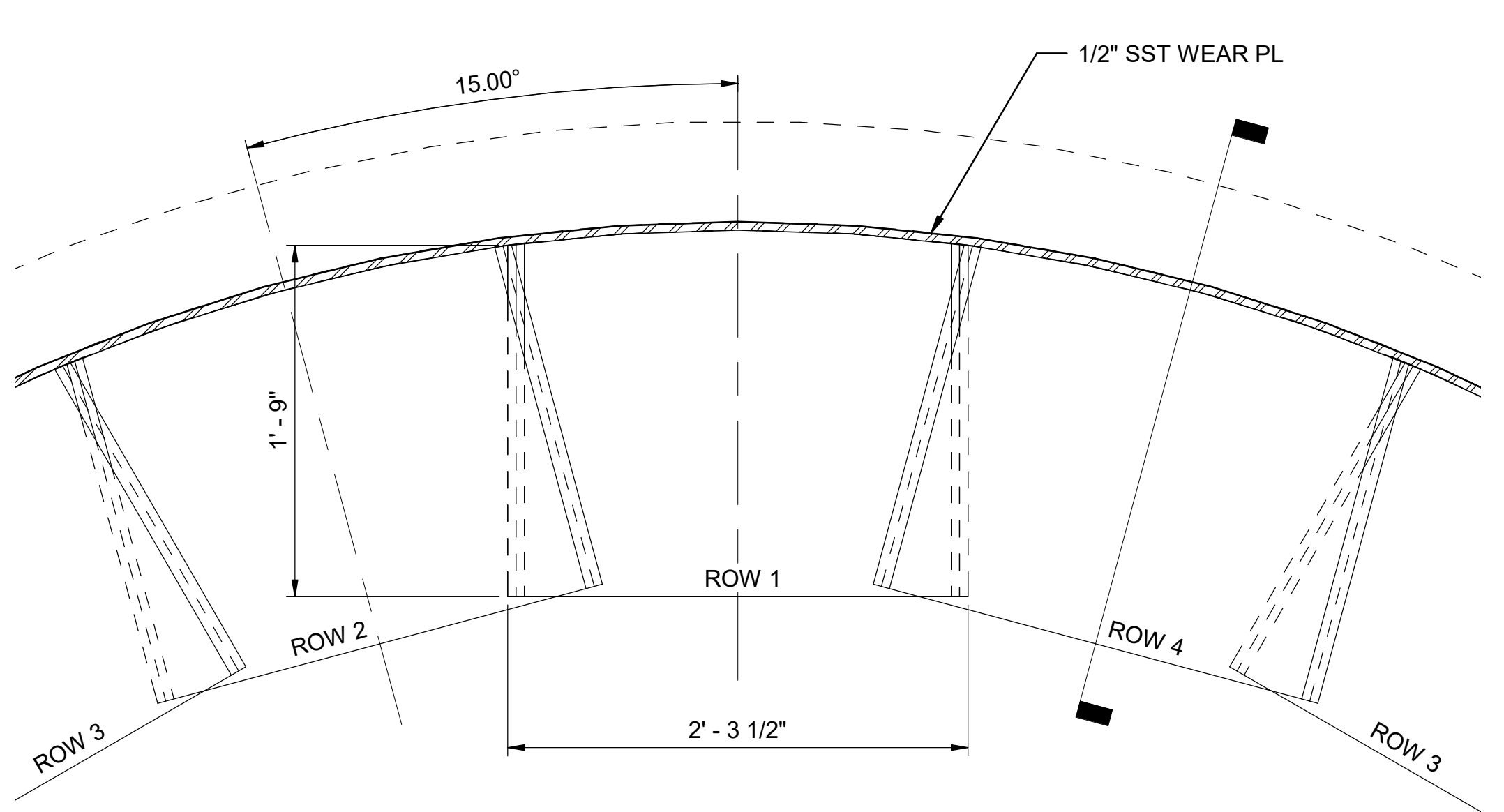
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 EMERGENCY DISSIPATION STRUCTURE  
 SECTIONS

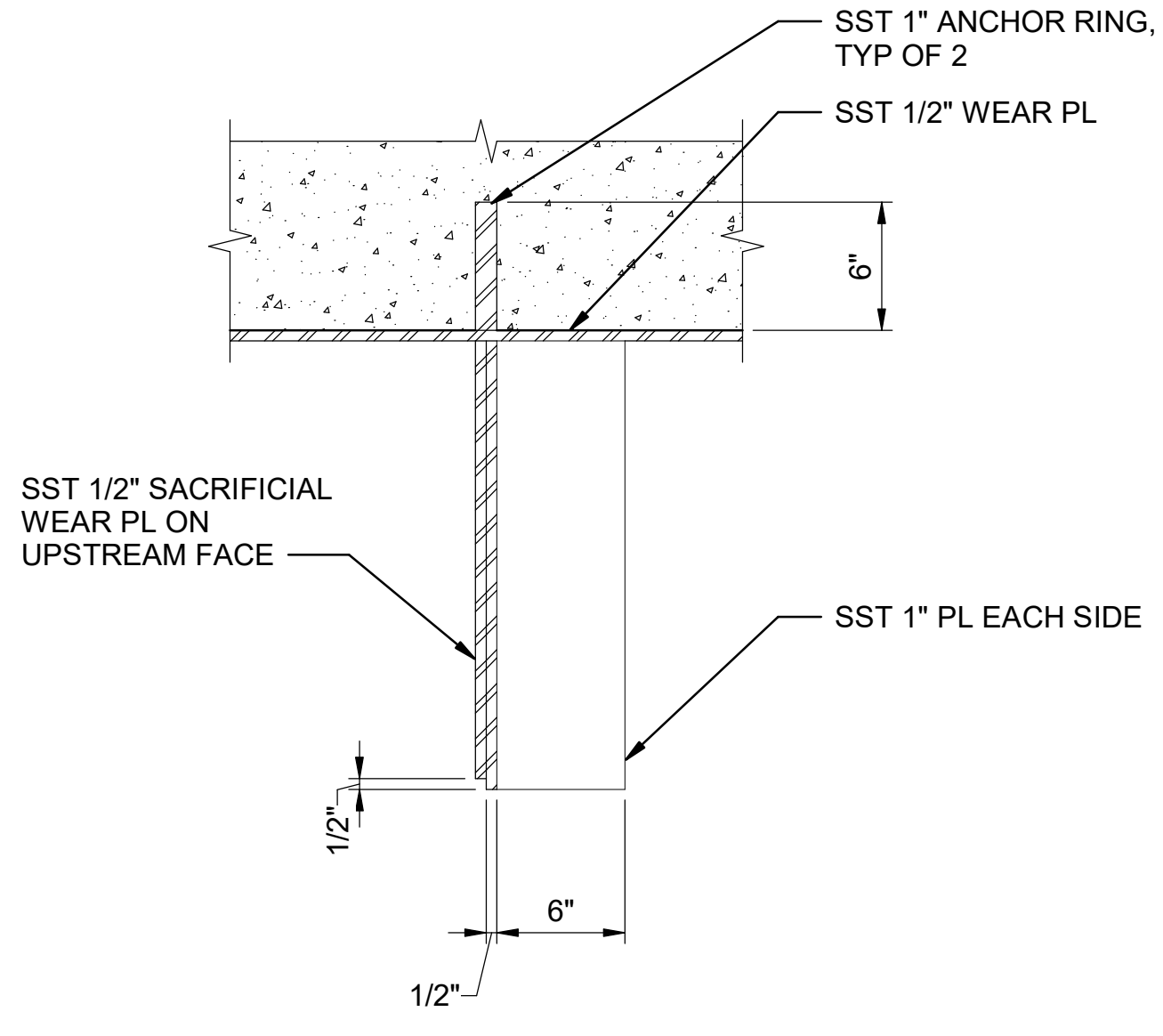
VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO.  
 MPG-2175-S-3002  
 SHT 159 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

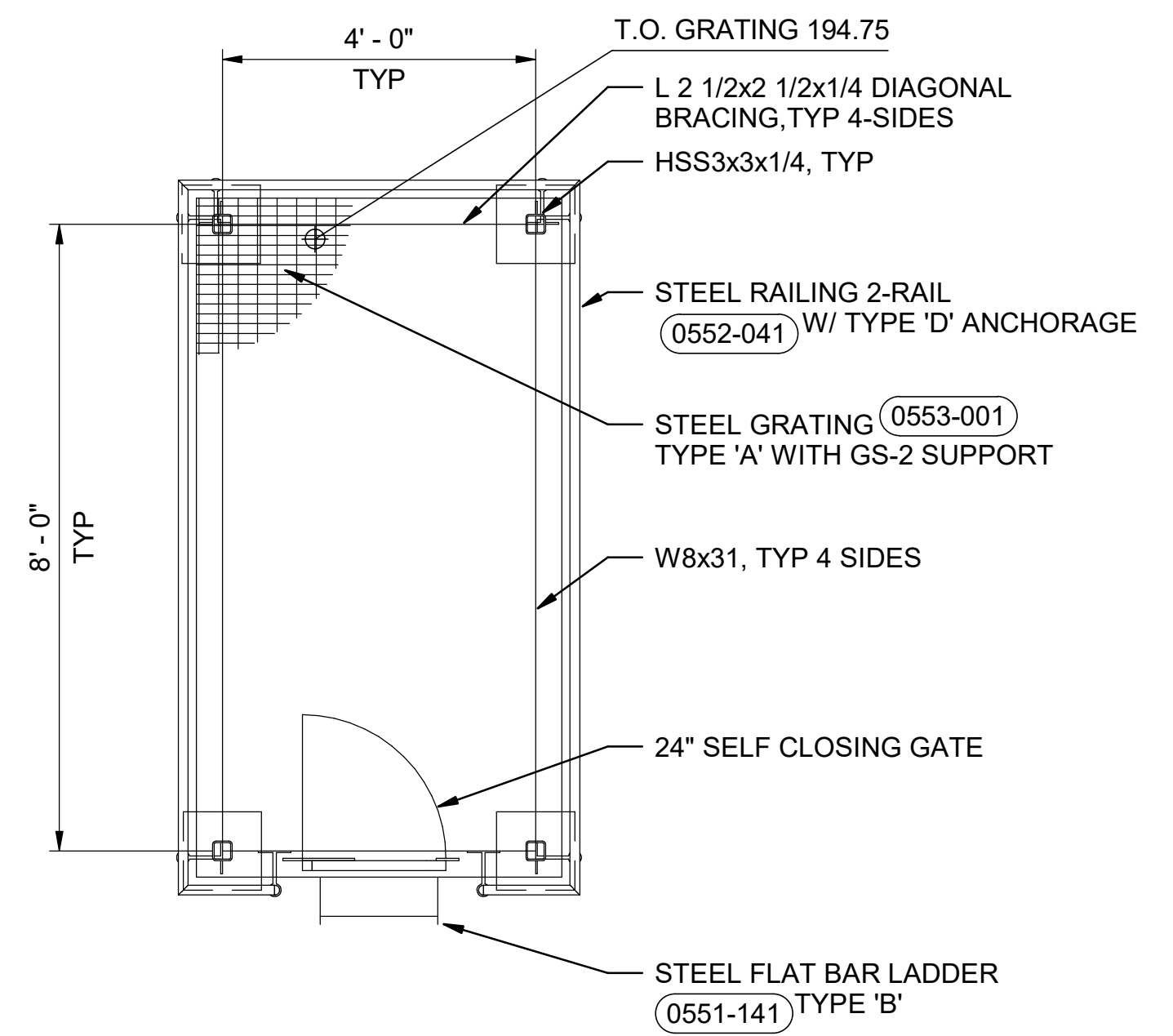


**ELEVATION**

**E3** DETAIL  
1 1/2" = 1'-0"  
MPG-2175-S-3002



**SECTION**



**E8** DETAIL  
1/2" = 1'-0"  
MPG-2175-S-2001

**GENERAL NOTES**

**SHEET KEY NOTES**

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2175-S-3Dn01.rvt  
 10/4/2023 9:46:55 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: J. KELLOGG  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 EMERGENCY DISSIPATION STRUCTURE  
**DETAILS**

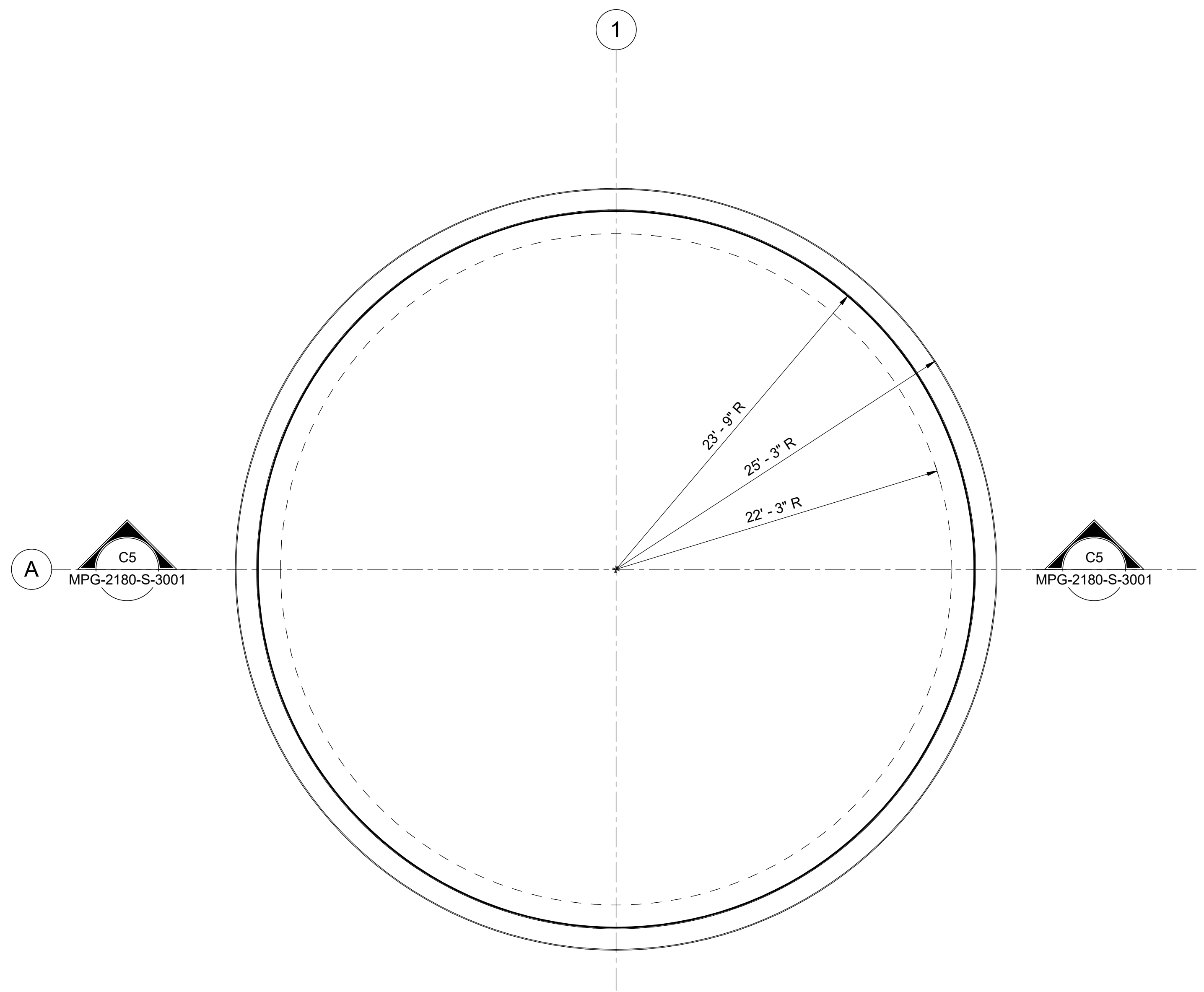
**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.  
  
 DRAWING NO.  
 MPG-2175-S-5001  
 SHT 160 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

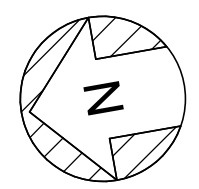
**GENERAL NOTES**

1. FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
  - A. LATERAL FORCE RESISTING SYSTEM: AWWA D103 FLAT-BOTTOM GROUND SUPPORTED BOLTED STEEL SELF-ANCHORED TANK
  - B. RESPONSE MODIFICATION FACTOR, R = 2.5
  - C. RISK CATEGORY = IV
  - D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.5
  - E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.416
2. FIRE WATER TANK NOMINAL STORAGE CAPACITY = 240,000 GALLONS

**SHEET KEY NOTES**



**FOUNDATION PLAN**  
3/16" = 1'-0"



BIN 3607/10333221\_Site Reservoir Project\_2022/MPG-2180-S-z3Dn01.rvt  
10/16/2023 7:06:08 AM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA

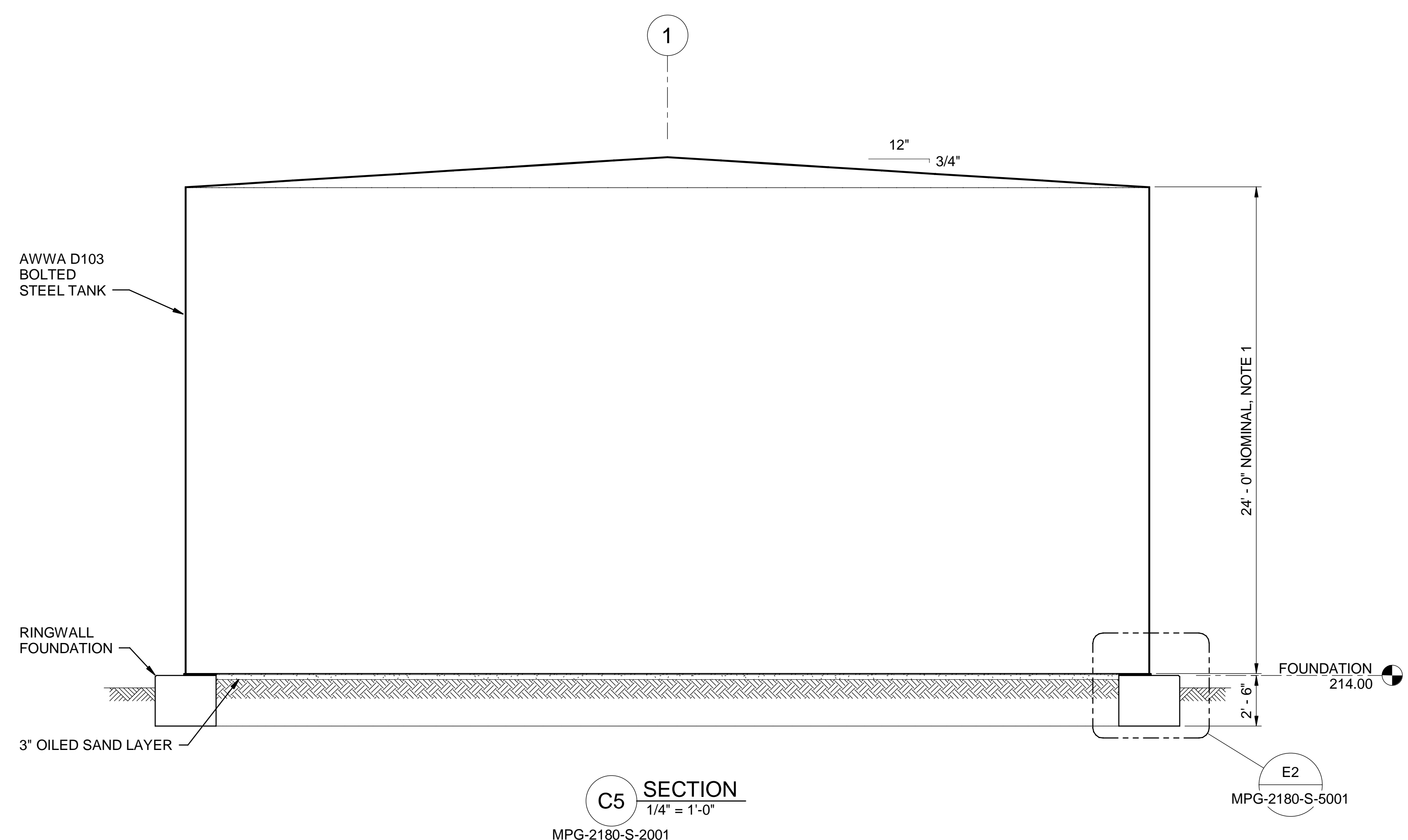


**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 FIRE WATER TANK  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2180-S-2001  
 SHT 164 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION





GENERAL NOTES

SHEET KEY NOTES

1. MANUFACTURER TO SET THE ROOF HEIGHT BASED ON CURRENT VERSIONS OF ASCE 7 AND AWWA D103.

BIM 360://1033322\_Site Reservoir Project\_2022/MPG-2180-S-33Dn01.rvt  
 31-Aug-23 12:01:51 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: L. DARNELL  
 DRAWN BY: K. SCHWALK  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

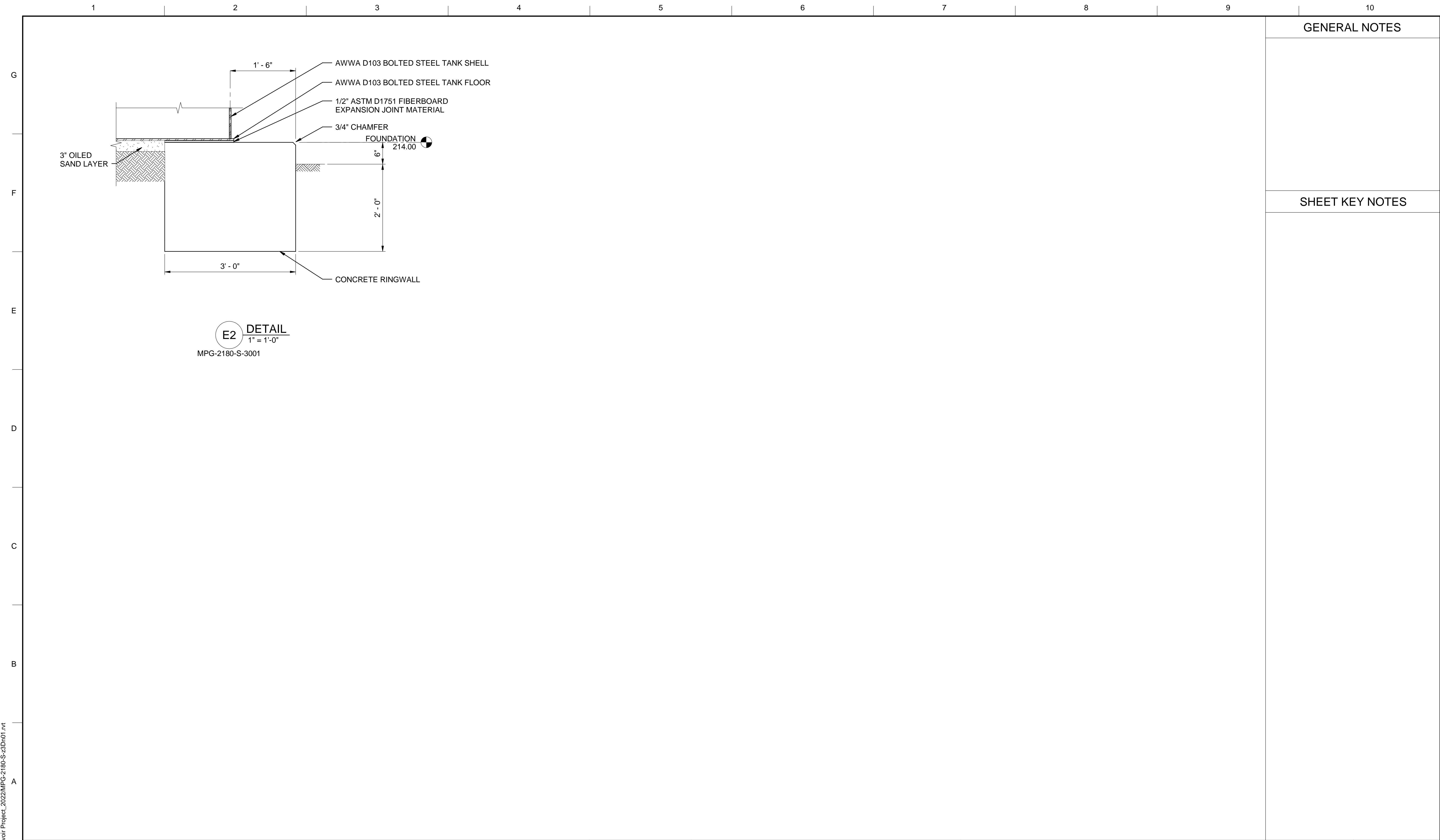
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 FIRE WATER TANK  
 SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 1"  
 DRAWING NO.  
 MPG-2180-S-3001  
 SHT 165 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

SHEET KEY NOTES

B:\M 360\1033322\_Site Reservoir Project\_2022\MPG-2180-S-3Dn01.rvt  
31-Aug-23 12:01:56 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:  
L. DARNELL

DRAWN BY:  
K. SCHWALK

CHECKED BY:  
H. HENRIKSON

IN CHARGE:  
P. RUDE

DATE:  
10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
JEREMY KELLOGG  
P.E. REG No. 5698  
CALIFORNIA

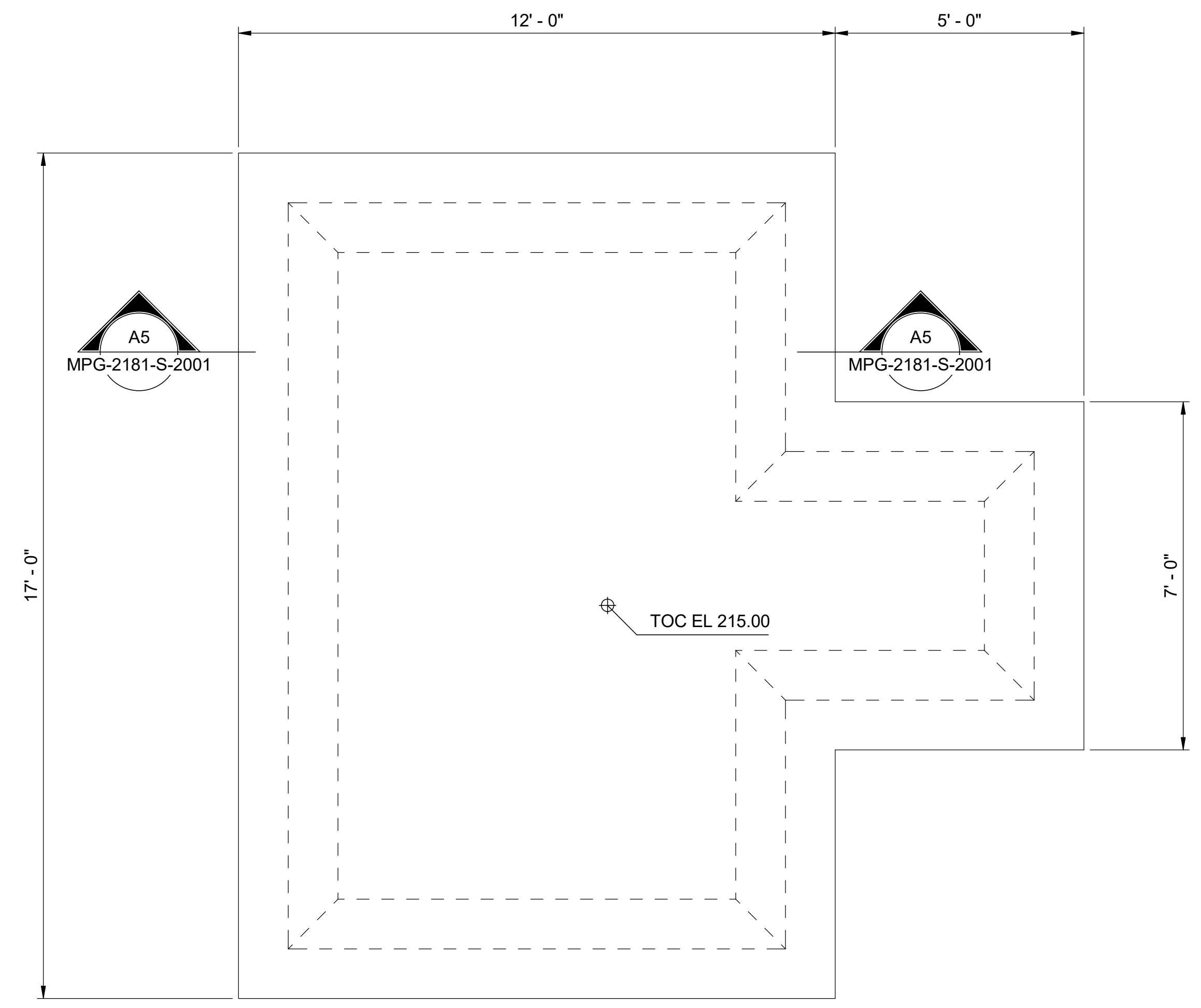


**SITES RESERVOIR**  
MAXWELL / SITES PUMPING AND GENERATING  
STRUCTURAL  
FUNKS RESERVOIR  
FIRE WATER TANK  
DETAILS

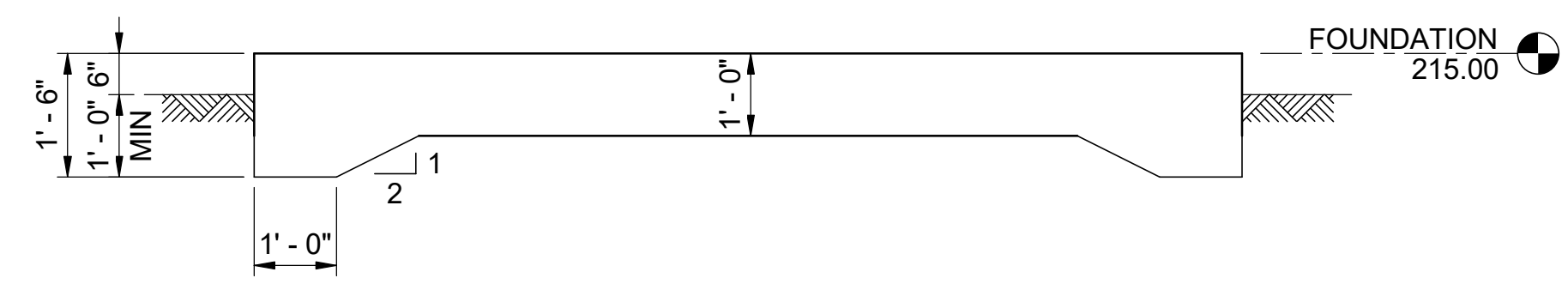
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0 1"

DRAWING NO.  
MPG-2180-S-5001  
SHT 166 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**FOUNDATION PLAN**  
1/2" = 1'-0"



**A5 SECTION**  
1/2" = 1'-0"  
MPG-2181-S-2001

**GENERAL NOTES**

1. FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
  - A. LATERAL FORCE RESISTING SYSTEM: ALL OTHER SELF-SUPPORTING STRUCTURES, TANKS, OR VESSELS NOT COVERED ABOVE OR BY REFERENCE STANDARDS THAT ARE NOT SIMILAR TO BUILDINGS
  - B. RESPONSE MODIFICATION FACTOR, R = 1.25
  - C. RISK CATEGORY = IV
  - D. SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.5
  - E. SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.832

**SHEET KEY NOTES**

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2181-S-z3Dn01.rvt  
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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: L. DARNELL  
 DRAWN BY: F. GARBIEN  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



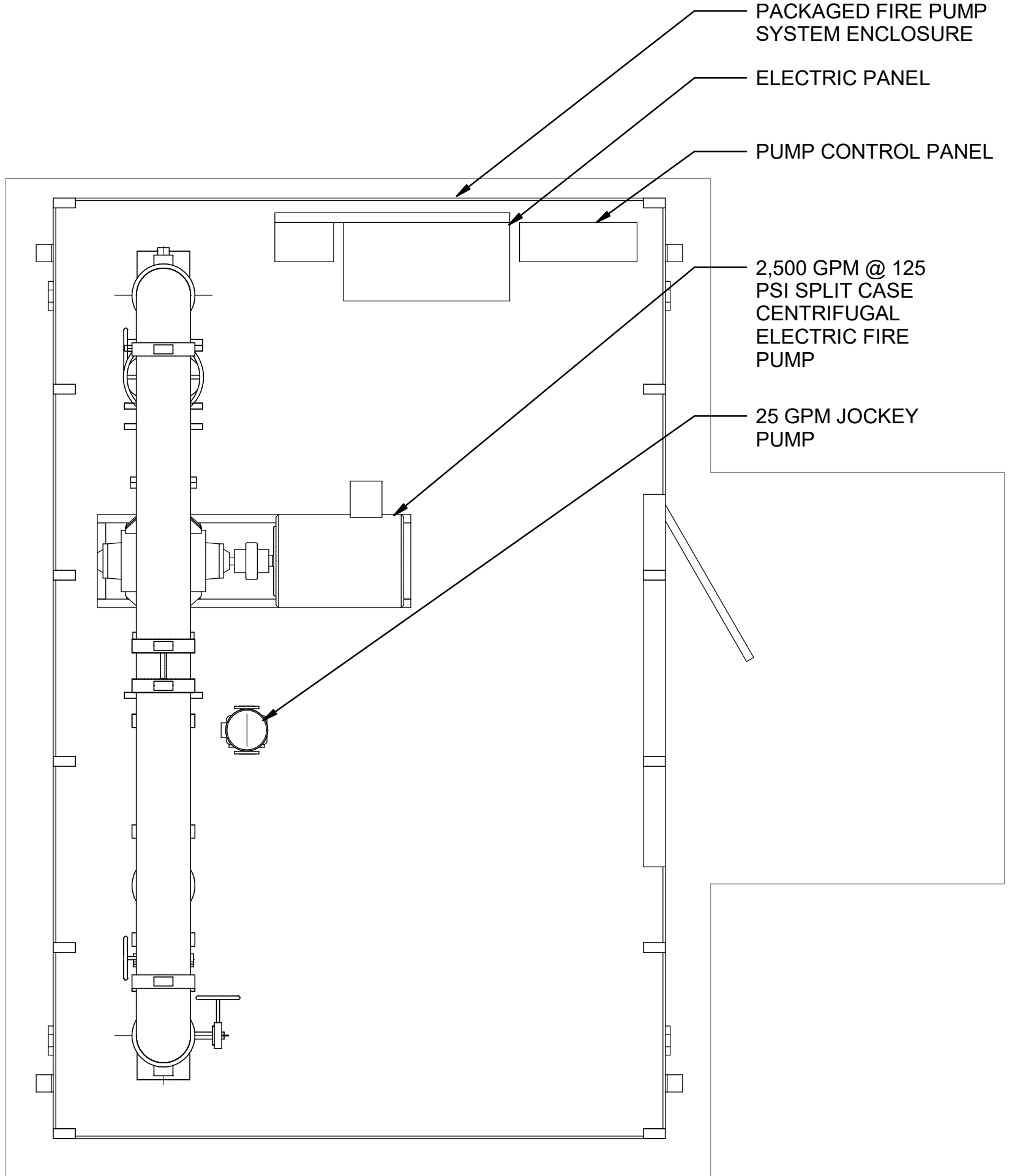
REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



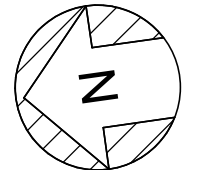
**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
**STRUCTURAL**  
 FUNKS RESERVOIR  
 FIRE WATER PUMPING PLANT  
 FOUNDATION PLAN AND SECTION

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
  
 DRAWING NO. MPG-2181-S-2001  
 SHT 167 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**FLOOR PLAN**  
1/2" = 1'-0"



B:\360\10333221\_Site Reservoir Project\_2022\MPG-2181-F-z3Dn01.rvt  
9/25/2023 7:55:22 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION

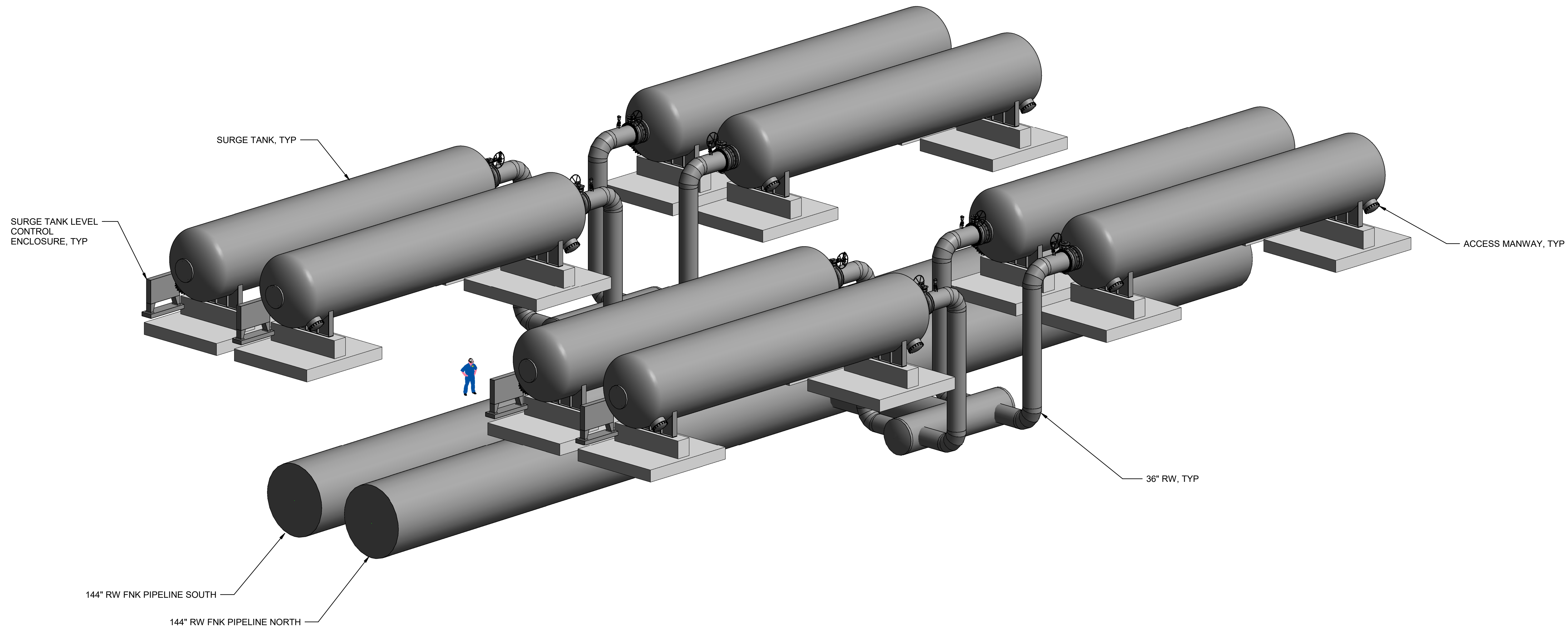
DESIGNED BY: J. CUTZ  
 DRAWN BY: S. HOSTETLER  
 CHECKED BY: T. PRICE  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 FIRE PROTECTION  
 FUNKS RESERVOIR  
 FIRE WATER PUMPING  
 FLOOR PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
 0 1"  
 DRAWING NO.  
 MPG-2181-F-2001  
 SHT 168 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



ISOMETRIC - SURGE CONTROL SYSTEM

BIN 360//10333221\_Site Reservoir Project\_2022/MPG-2100\_FNK\_Overall\_Site\_Container.rvt 10/12/2023 5:42:04 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: T. KUCZKOWSKI  
 DRAWN BY: D. CAVE  
 CHECKED BY: K. PARIS  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



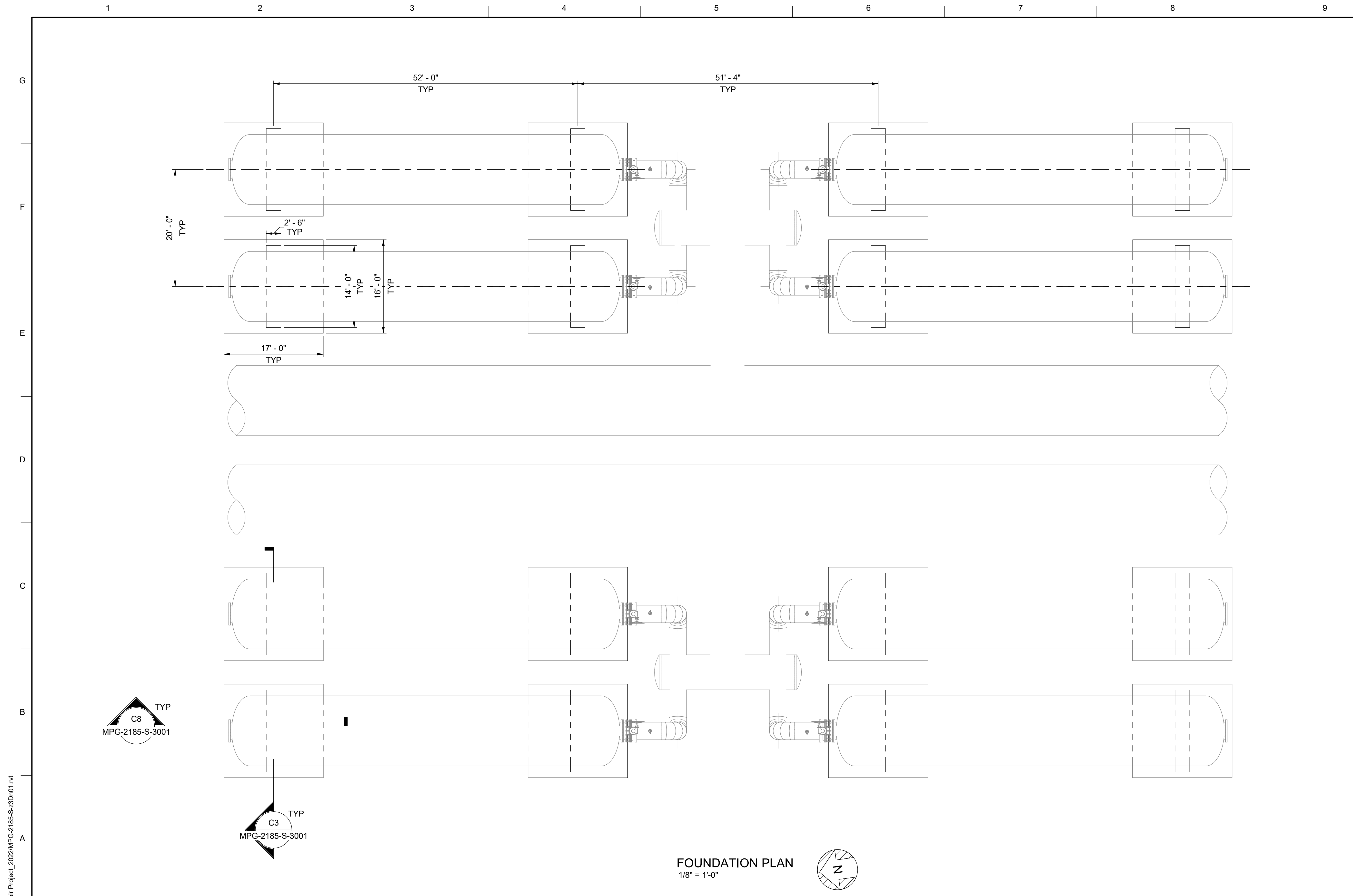
REGISTERED PROFESSIONAL ENGINEER  
 KERILYN PARIS  
 P.E. REG No. 87908  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 GENERAL FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 RENDERING

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
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 DRAWING NO. MPG-2185-G-0001  
 SHT 170 OF 176

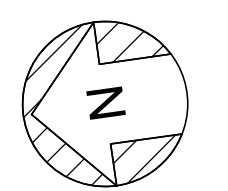
PRELIMINARY - NOT FOR CONSTRUCTION



- GENERAL NOTES**
- FACILITY SPECIFIC STRUCTURAL DESIGN CRITERIA:
    - LATERAL FORCE RESISTING SYSTEM: HORIZONTAL, SADDLE-SUPPORTED WELDED STEEL VESSELS.
    - RESPONSE MODIFICATION FACTOR, R = 3
    - RISK CATEGORY = II
    - SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0
    - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> = 0.231

**SHEET KEY NOTES**

**FOUNDATION PLAN**  
1/8" = 1'-0"



BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2185-S-3Dn01.rvt  
 31-Aug-23 3:20:34 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J. KELLOGG  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 FOUNDATION PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2185-S-2001  
 SHT 171 OF 176

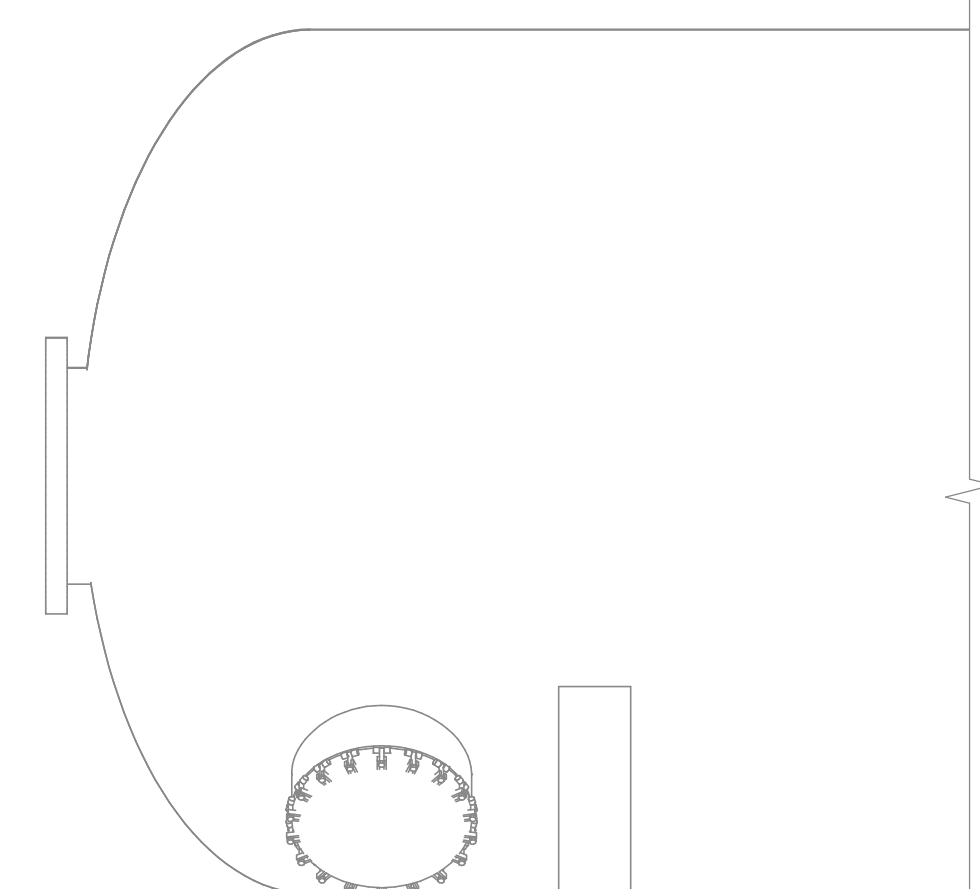
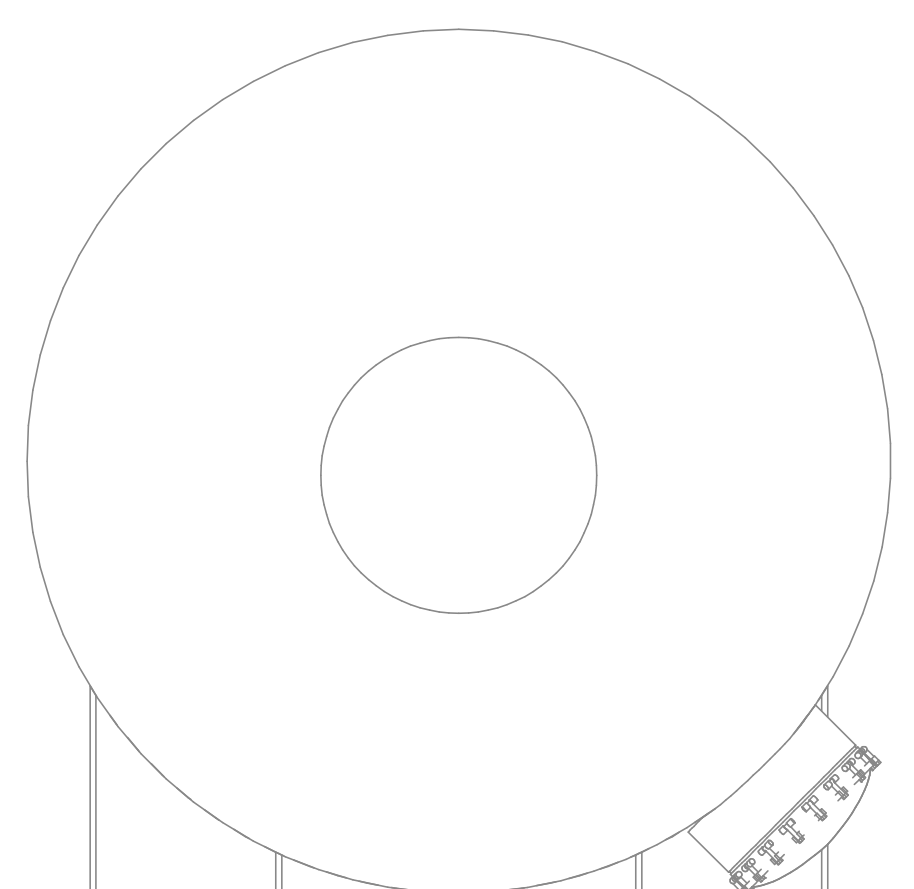
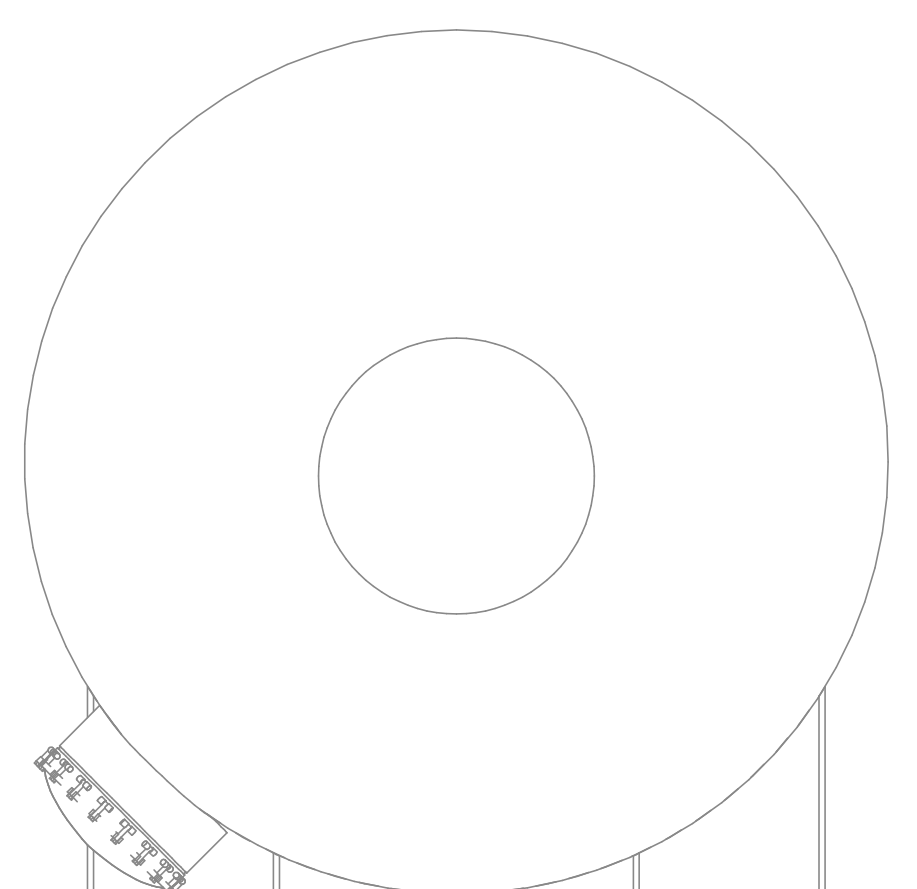
PRELIMINARY - NOT FOR CONSTRUCTION

1 2 3 4 5 6 7 8 9 10

G  
F  
E  
D  
C  
B  
A

GENERAL NOTES

SHEET KEY NOTES



**C3 SECTION**  
3/8" = 1'-0"  
MPG-2185-S-2001

**C8 SECTION**  
3/8" = 1'-0"  
MPG-2185-S-2001

BIM 360//10333221\_Site Reservoir Project\_2022/MPG-2185-S-3Dn01.rvt  
 31-Aug-23 3:20:37 PM

REV	DATE	BY	CHK	APPR.	DESCRIPTION


DESIGNED BY: J. KELLOGG  
 DRAWN BY: A. GAWOR  
 CHECKED BY: H. HENRIKSON  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 JEREMY KELLOGG  
 P.E. REG No. 5698  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL / SITES PUMPING AND GENERATING  
 STRUCTURAL  
 FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 SECTIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL  
 DRAWING. ADJUST SCALES FOR  
 REDUCED PLOTS  
  
 DRAWING NO.  
 MPG-2185-S-3001  
 SHT 172 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

1

2

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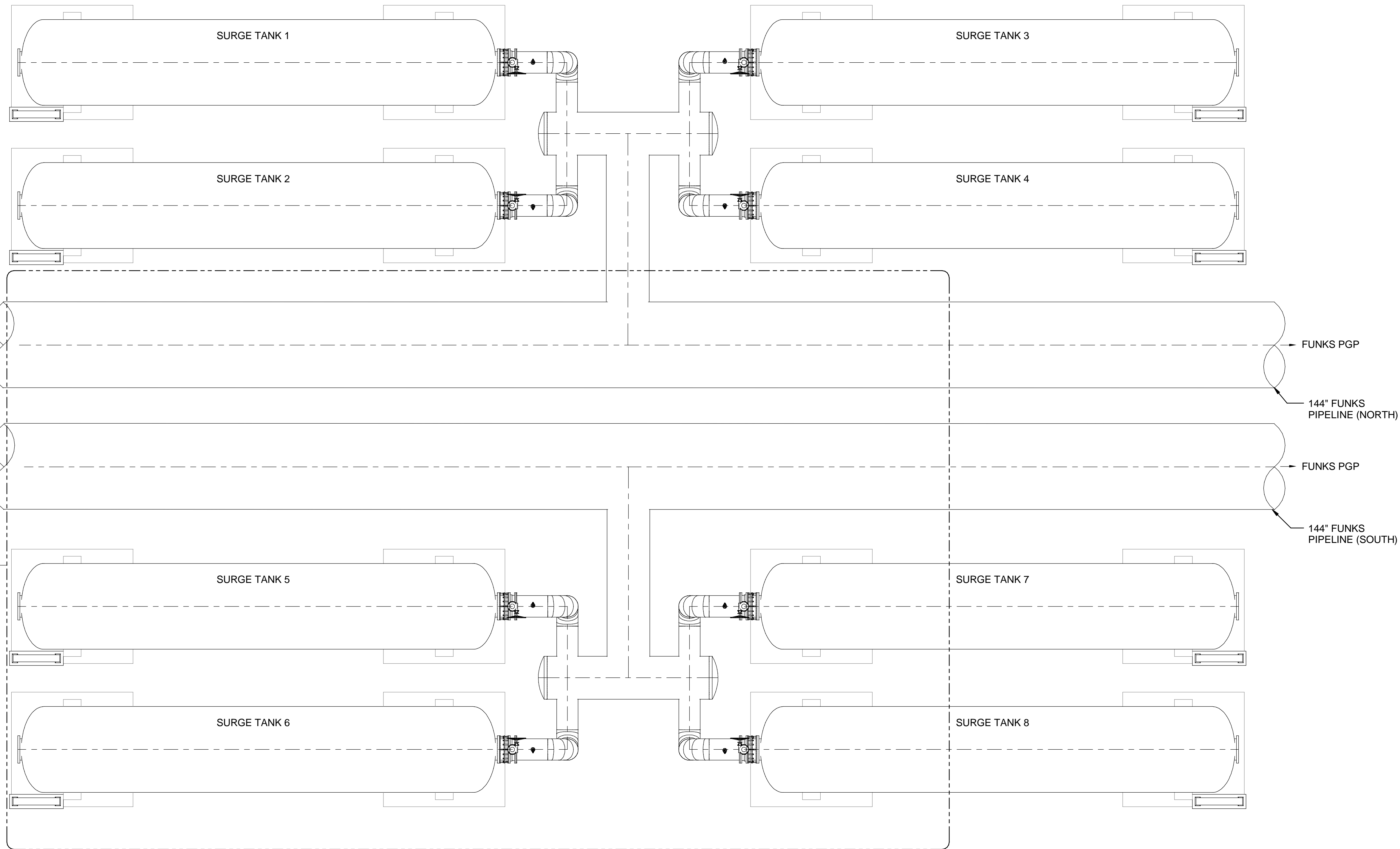
C

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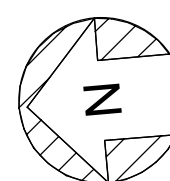
A

GENERAL NOTES

SHEET KEY NOTES



OVERALL PLAN  
1/8" = 1'-0"



B:\3607\10333221\_Site Reservoir Project\_2022\MPG-2185-D-z3dn01.rvt  
10/13/2023 3:38:49 AM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY:  
T. KUCZKOWSKI

DRAWN BY:  
G. MCFARLAND

CHECKED BY:  
K. PARIS

IN CHARGE:  
P. RUDE

DATE:  
10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
KERILYN PARIS  
P.E. REG No. 87908  
CALIFORNIA



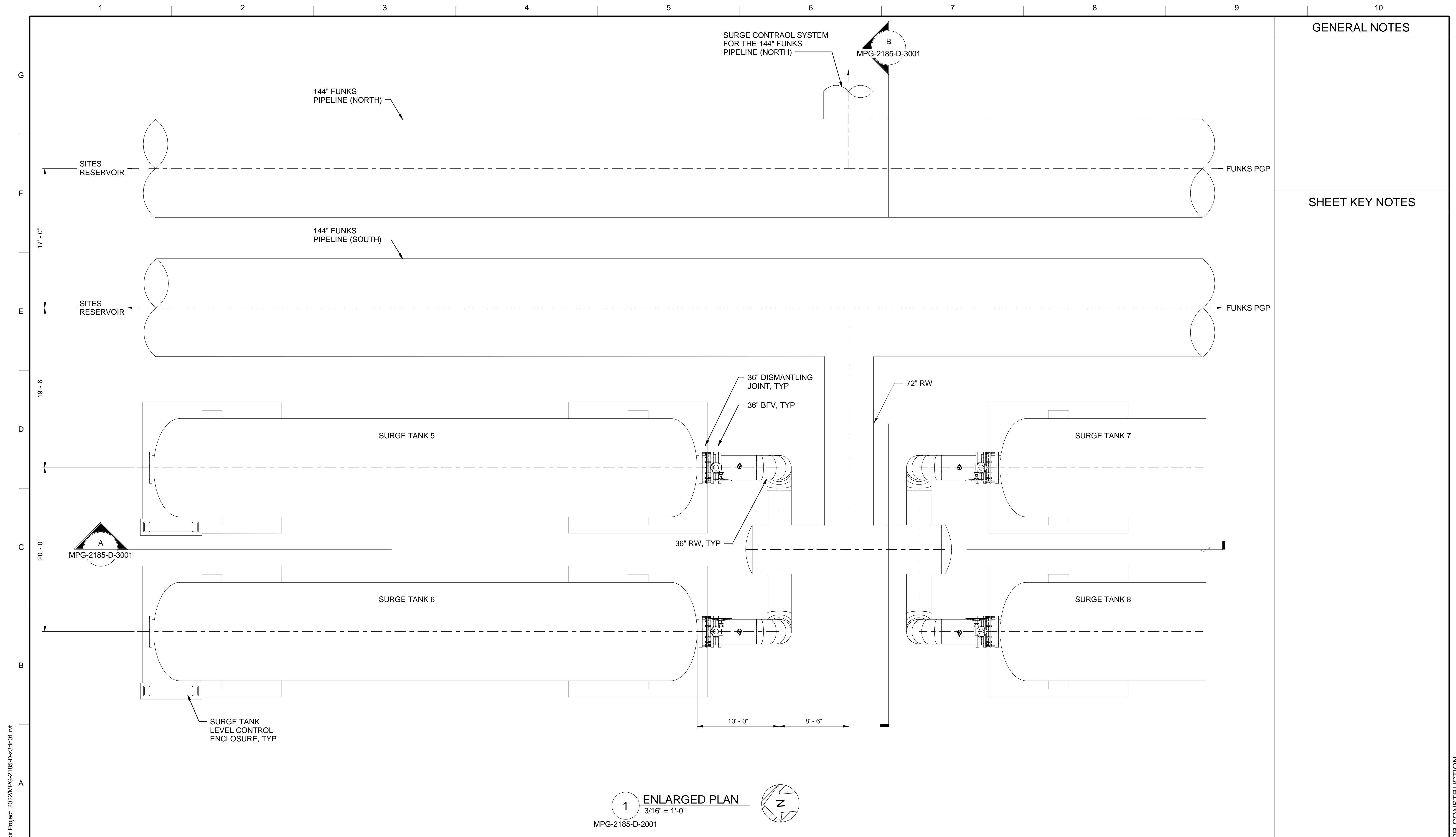
**SITES RESERVOIR**  
MAXWELL/ SITES PUMPING AND GENERATION  
PROCESS  
FUNKS RESERVOIR  
SURGE CONTROL SYSTEM  
OVERALL PLAN

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS

DRAWING NO.  
MPG-2185-D-2001  
SHT 173 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION

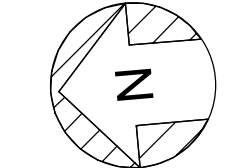




GENERAL NOTES

SHEET KEY NOTES

1 ENLARGED PLAN  
3/16" = 1'-0"  
MPG-2185-D-2001



BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2185-D-z3dn01.rvt  
 10/13/2023 3:38:51 AM

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: T. KUCZKOWSKI  
 DRAWN BY: G. MCFARLAND  
 CHECKED BY: K. PARIS  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

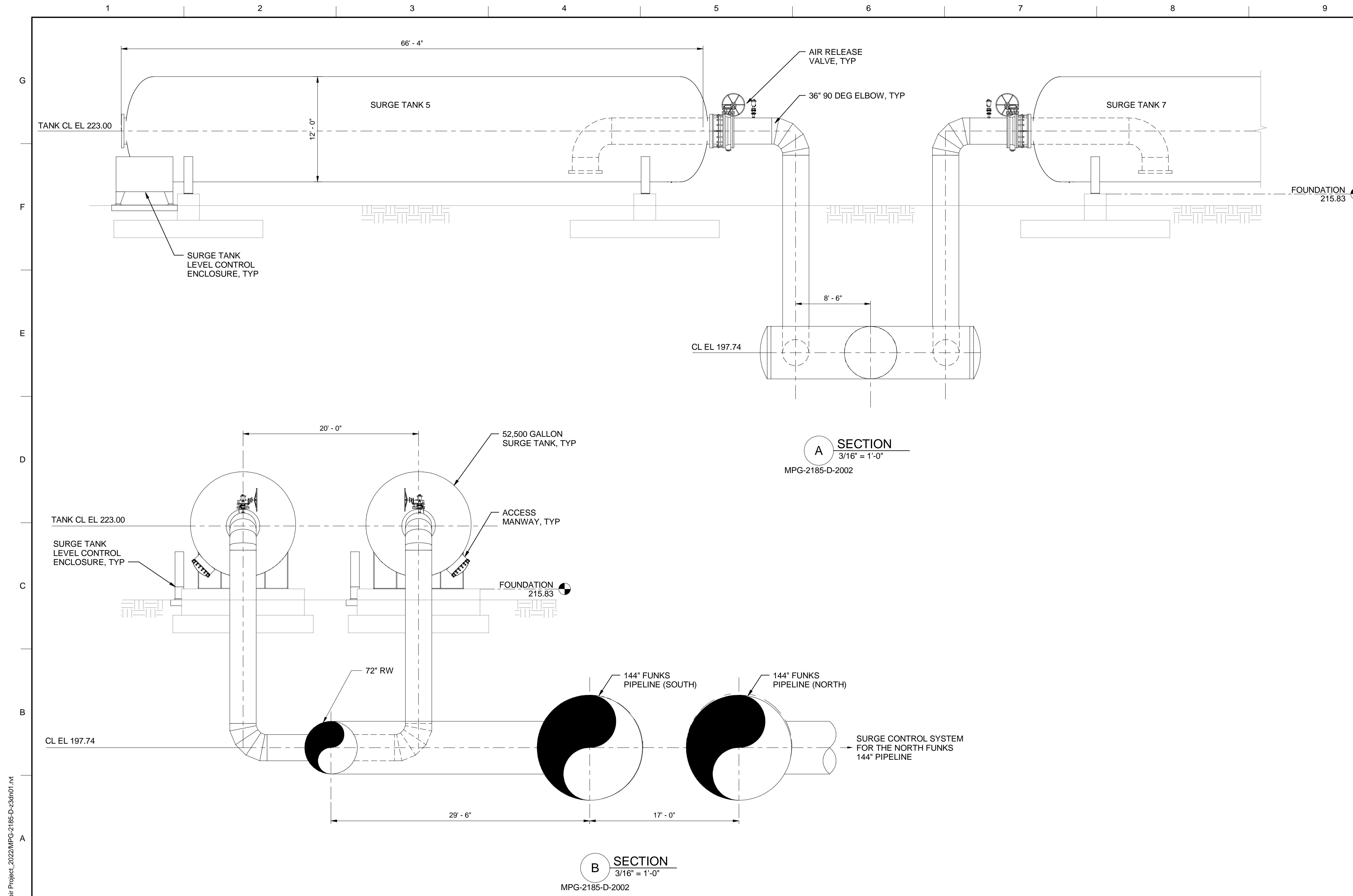


REGISTERED PROFESSIONAL ENGINEER  
 KERILYN PARIS  
 P.E. REG No. 87908  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/ SITES PUMPING AND GENERATION  
 PROCESS  
 FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 ENLARGED PLAN

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 1"  
 DRAWING NO. MPG-2185-D-2002  
 SHT 174 OF 176



GENERAL NOTES

SHEET KEY NOTES

BIM 360://10333221\_Site Reservoir Project\_2022/MPG-2185-D-23dn01.rvt  
 10/13/2023 3:38:52 AM

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: T. KUCZKOWSKI  
 DRAWN BY: G. MCFARLAND  
 CHECKED BY: K. PARIS  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023

**Jacobs**  
 2525 AIRPARK DR  
 REDDING, CA 96001  
 (530) 2435831

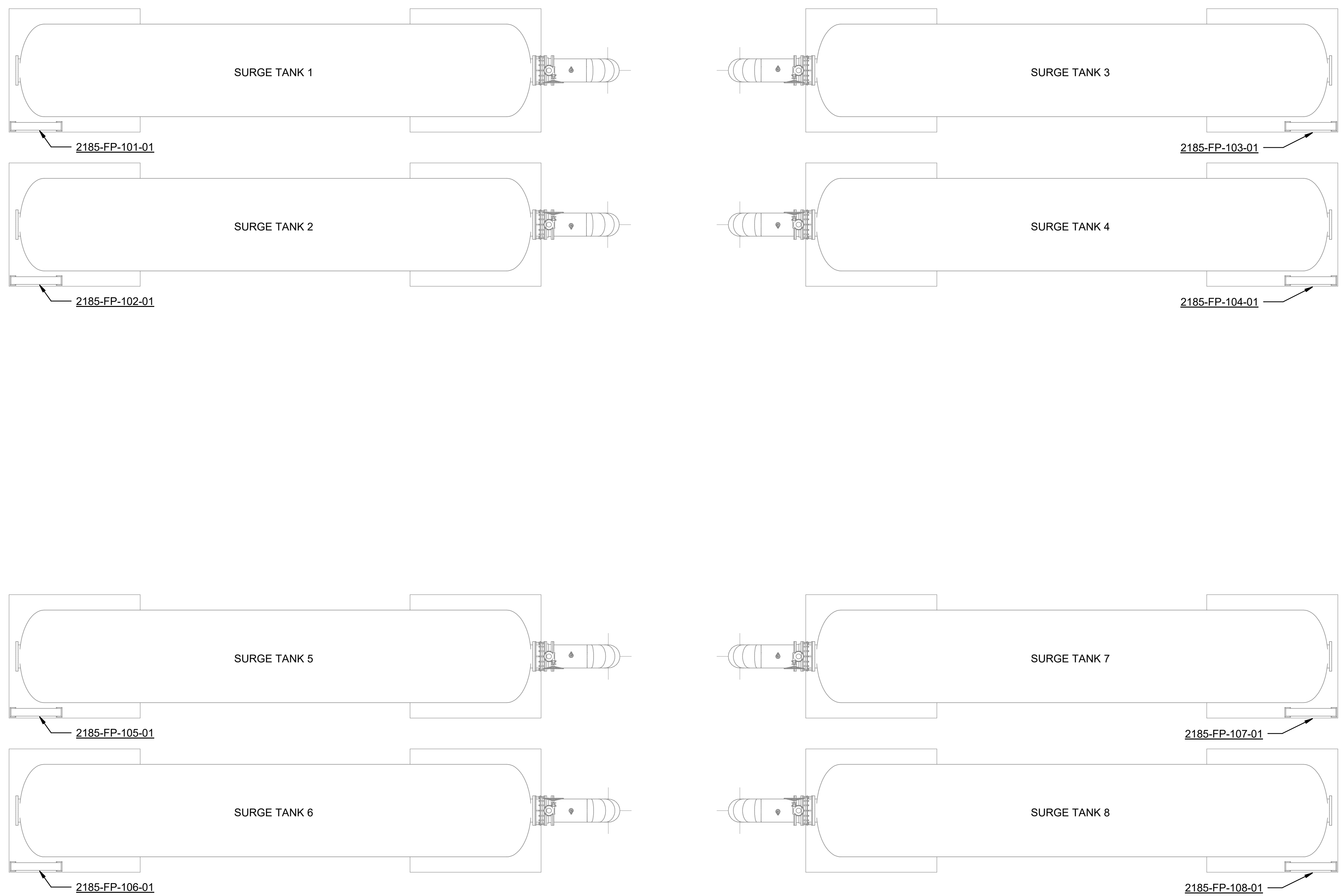
REGISTERED PROFESSIONAL ENGINEER  
 KERILYN PARIS  
 P.E. REG No. 87908  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/ SITES PUMPING AND GENERATION  
 PROCESS  
 FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 SECTIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  
 0 1"  
 DRAWING NO. MPG-2185-D-3001  
 SHT 175 OF 176

PRELIMINARY - NOT FOR CONSTRUCTION



**OVERALL PLAN**  
1/8" = 1'-0"

**GENERAL NOTES**

1. TRANSFORMER AND PANELBOARD ENCLOSURES SHALL BE RATED NEMA 3R.

**SHEET KEY NOTES**

BIM 3607/1033322\_Site Reservoir Project\_2022/MPG-2185-E-z3Dn01.rvt  
 10/13/2023 12:13:48 PM

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: C. CUSWORTH  
 DRAWN BY: E. GARCIA  
 CHECKED BY: J. LANDMAN  
 IN CHARGE: P. RUDE  
 DATE: 10-17-2023



REGISTERED PROFESSIONAL ENGINEER  
 CRAIG M CUSWORTH  
 P.E. REG No. 19120  
 CALIFORNIA



**SITES RESERVOIR**  
 MAXWELL/ SITES PUMPING AND GENERATION  
 ELECTRICAL  
 FUNKS RESERVOIR  
 SURGE CONTROL SYSTEM  
 PLAN

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS  

 0 1"  
 DRAWING NO.  
 MPG-2185-E-2001  
 SHT 176 OF 176

PRELIMINARY - ISSUED FOR CONSTRUCTION