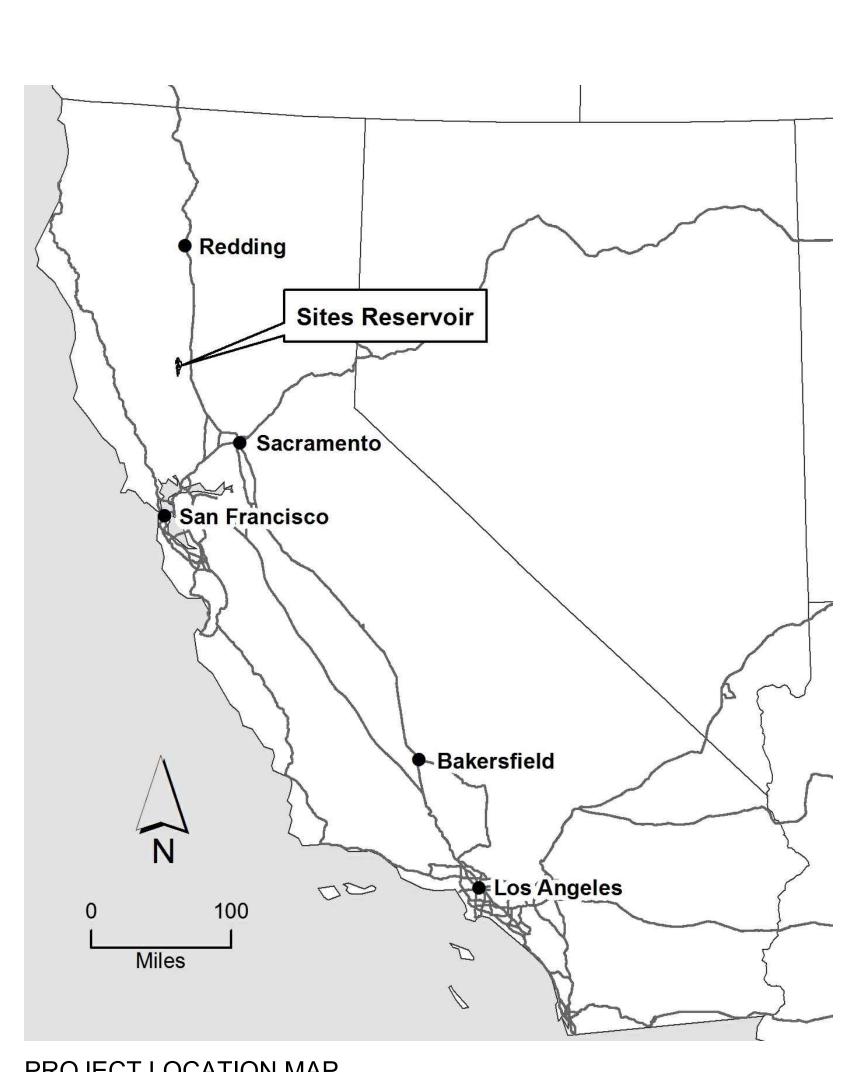
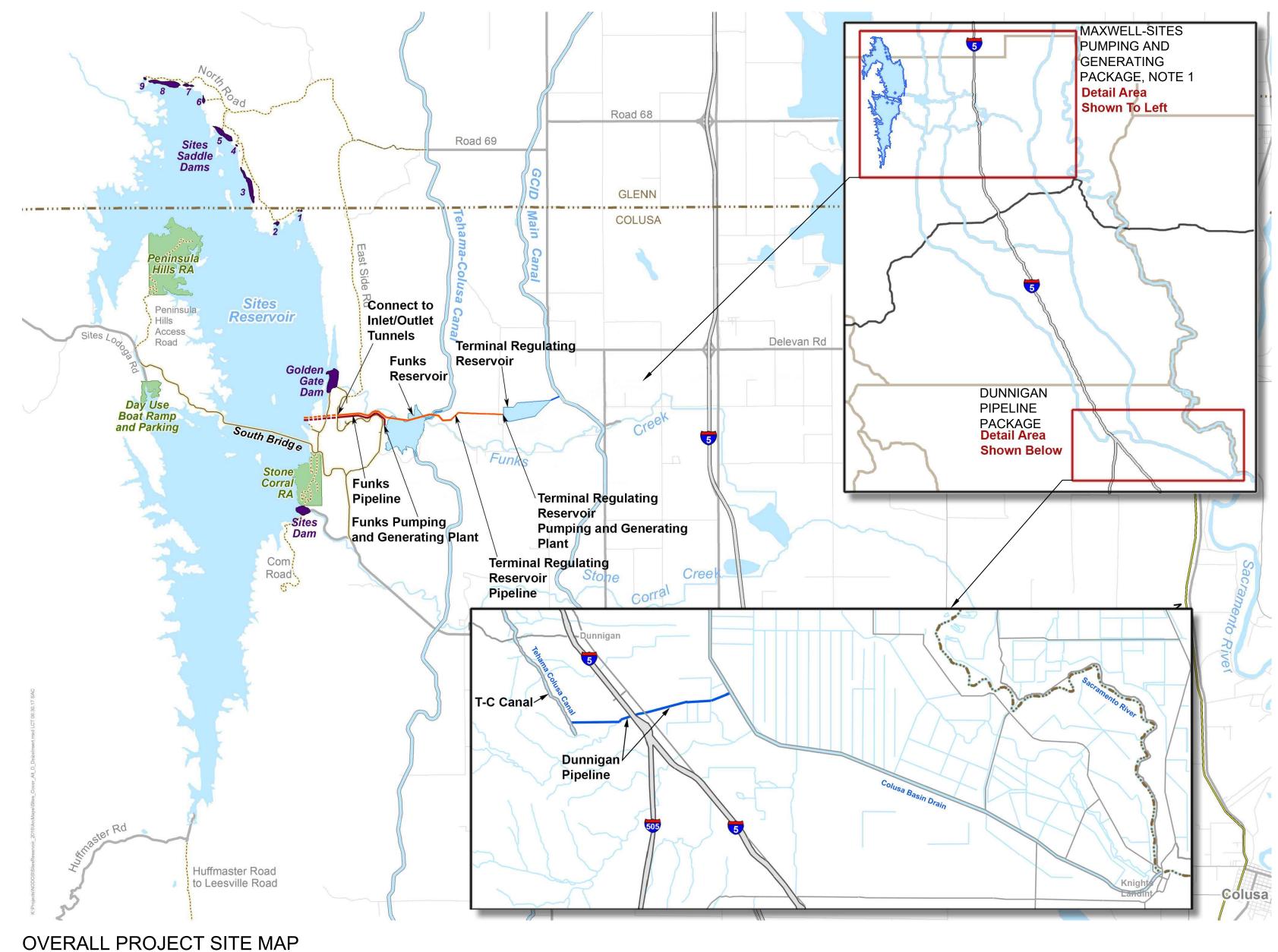
# SITES RESERVOIR DUNNIGAN PIPELINE PROJECT PIPELINE AND FACILITIES 30% DESIGN - CLIENT REVIEW FEBRUARY 5, 2024





PROJECT LOCATION MAP

NOTE 1: MAXWELL-SITES PUMPING AND GENERATING PACKAGE(S) NOT INCLUDED IN THIS PACKAGE

REV	DATE	BY	CHK.	APPR.	DESCRIPTION	DATE: 02-02-2024	
						IN CHARGE: P. RUDE	
						CHECKED BY: B. MEMEO	
						D. CAVE	
						DESIGNED BY:  D. CAVE	

Jacobs REDDING, CA 96001 (530) 243-5831

REGISTERED **PROFESSIONAL ENGINEER** BRAD L. MEMEO C81778 CALIFORNIA



SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL** COVER SHEET, LOCATION MAP AND SITE MAP **VERIFY SCALES** BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

DRAWING NO. DNP-0001-G-0001 1 OF 55

# INDEX OF DRAWINGS

SHT NO	DRAWING NO	DESCRIPTION
1	DNP-0001-G-0001	COVER SHEET, LOCATION MAP AND SITE MAP
2	DNP-0001-G-0002	INDEX OF DRAWINGS
3	DNP-0001-G-0010	ABBREVIATIONS
4	DNP-0001-G-0020	GENERAL SYMBOLS AND DRAWING NUMBERING LEGEND
 5	DNP-0001-G-0101	CML LEGEND
 6	DNP-0001-G-0301	STRUCTURAL NOTES 1
<del></del> 7	DNP-0001-G-0302	STRUCTURAL NOTES 2
<u>.                                    </u>	DNP-0001-G-0401	PROCESS MECHANICAL LEGEND AND NOTES
9	DNP-0001-G-0501	HVAC LEGEND
<u> </u>	DNP-0001-G-0601	ELECTRICAL LEGEND 1
11	DNP-0001-G-0602	ELECTRICAL LEGEND 2
12	DNP-0001-G-0603	ELECTRICAL LEGEND 3
13	DNP-0001-G-0701	INSTRUMENTATION AND CONTROLS LEGEND 1
14	DNP-0001-G-0702	INSTRUMENTATION AND CONTROLS LEGEND 2
15	DNP-0001-G-0801	PROCESS FLOW DIAGRAM
16	DNP-0001-G-1001	HYDRAULIC PROFILE DUNNIGAN PIPELINE
17	DNP-0065-N-6110	P&ID - T-C CANAL INLET STRUCTURE
18	DNP-0065-N-6120	P&ID - CBD DISCHARGE STRUCTURE
19	DNP-5020-P-2000	KEYPLAN, CONTROL AND HORIZONTAL ALIGNMENT DATA, AND SITE ACCESS
20	DNP-5020-P-2001	PIPELINE PLAN AND PROFILE STA 9+97.5 TO STA 35+00
21	DNP-5020-P-2002	PIPELINE PLAN AND PROFILE STA 35+00 TO 60+00
22	DNP-5020-P-2003	PIPELINE PLAN AND PROFILE STA 60+00 TO 85+00
23	DNP-5020-P-2004	PIPELINE PLAN AND PROFILE STA 85+00 TO 110+00
24	DNP-5020-P-2005	PIPELINE PLAN AND PROFILE STA 110+00 TO 135+00
25	DNP-5020-P-2006	PIPELINE PLAN AND PROFILE STA 135+00 TO 160+00
26	DNP-5020-P-2007	PIPELINE PLAN AND PROFILE STA 160+00 TO 185+00
27	DNP-5020-P-2008	PIPELINE PLAN AND PROFILE STA 185+00 TO 205+00
28	DNP-5020-P-2009	PIPELINE PLAN AND PROFILE STA 205+00 TO 209+83.49
29	DNP-5100-G-0001	T-C CANAL INLET STRUCTURE RENDERING
30	DNP-5100-C-2001	T-C CANAL INLET STRUCTURE SITE PLAN
31	DNP-5100-S-2001	T-C CANAL INLET STRUCTURE FOUNDATION PLAN
32	DNP-5100-S-2101	T-C CANAL INLET STRUCTURE GROUND LEVEL PLAN
33	DNP-5100-S-3001	T-C CANAL INLET STRUCTURE SECTION
34	DNP-5100-D-2001	T-C CANAL INLET STRUCTURE PLAN
35	DNP-5100-D-3001	T-C CANAL INLET STRUCTURE SECTION
36	DNP-5100-E-2001	T-C CANAL INLET STRUCTURE PLAN
37	DNP-5100-E-6001	T-C CANAL INLET STRUCTURE ONE-LINE DIAGRAM
38	DNP-5200-G-0001	CBD DISCHARGE STRUCTURE RENDERING
39	DNP-5200-C-2001	CBD DISCHARGE STRUCTURE SITE PLAN
39 40	DNP-5200-C-2001 DNP-5200-S-2001	CBD DISCHARGE STRUCTURE SITE PLAN  CBD DISCHARGE STRUCTURE FOUNDATION PLAN
41	DNP-5200-S-2101	CBD DISCHARGE STRUCTURE GROUND LEVEL PLAN
42	DNP-5200-S-3001	CBD DISCHARGE STRUCTURE SECTION
43	DNP-5200-S-3002	CBD DISCHARGE STRUCTURE SECTION
44	DNP-5200-S-5001	CBD DISCHARGE STRUCTURE DETAILS
45	DNP-5200-D-2001	CBD DISCHARGE STRUCTURE PLAN
46	DNP-5200-D-3001	CBD DISCHARGE STRUCTURE SECTION
47	DNP-5200-H-2001	CBD DISCHARGE STRUCTURE FOUNDATION PLAN
48	DNP-5200-H-2101	CBD DISCHARGE STRUCTURE GROUND LEVEL PLAN
49	DNP-5200-E-2001	CBD DISCHARGE STRUCTURE PROCESS PLAN
50	DNP-5200-E-6001	CBD DISCHARGE STRUCTURE ONE-LINE DIAGRAM
51	DNP-5900-C-5001	STANDARD DETAILS
52	DNP-5900-C-5002	STANDARD DETAILS
53	DNP-5900-C-5003	STANDARD DETAILS
54	DNP-5900-C-5004	STANDARD DETAILS
55	DNP-5900-C-5005	STANDARD DETAILS

DESIGNED BY: D. CAVE DRAWN BY: D. CAVE CHECKED BY: B. MEMEO IN CHARGE: 02-02-2024 REV DATE BY CHK. APPR. DESCRIPTION

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REGISTERED PROFESSIONAL **ENGINEER** BRAD L. MEMEO C81778 CALIFORNIA



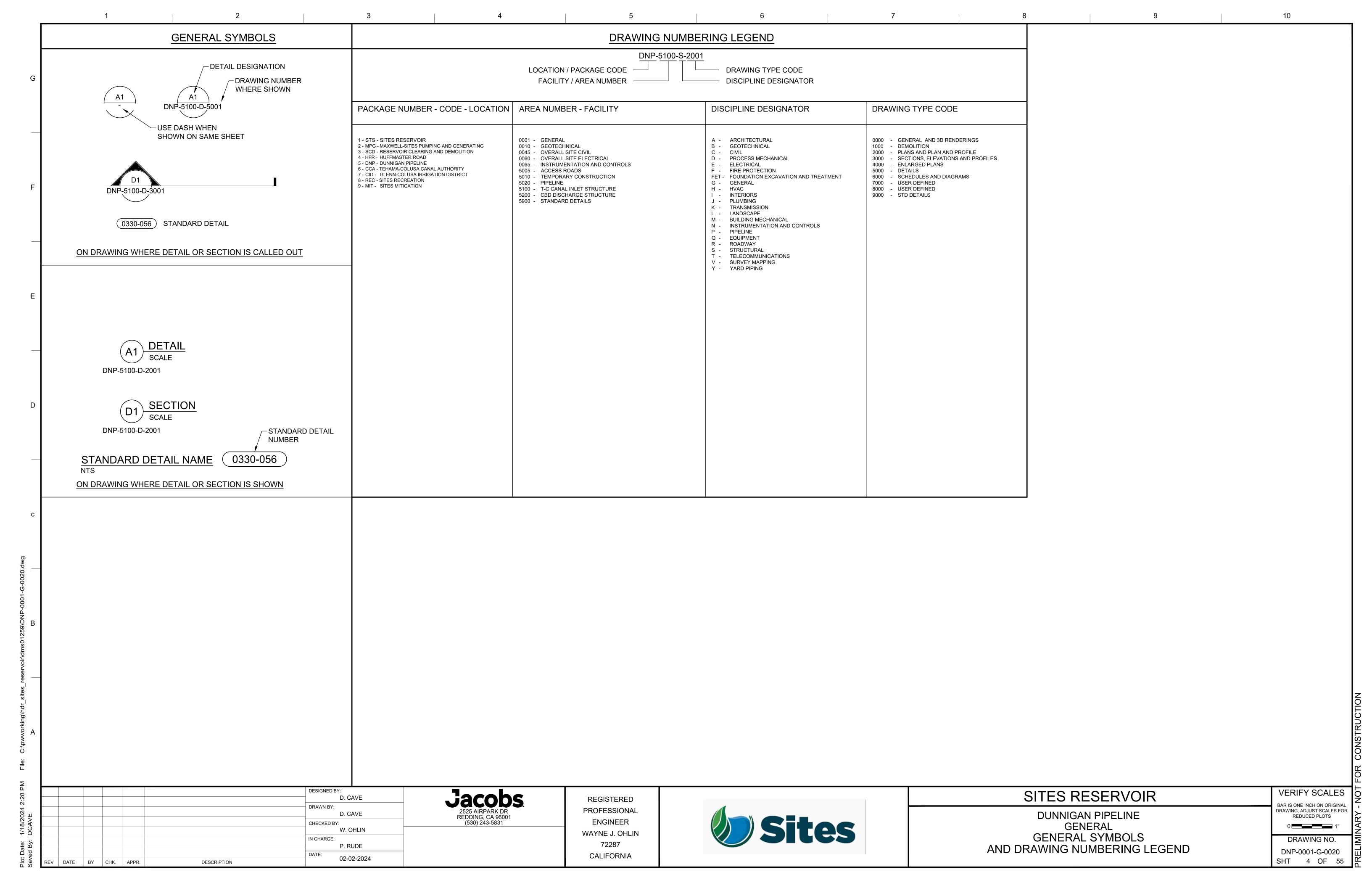
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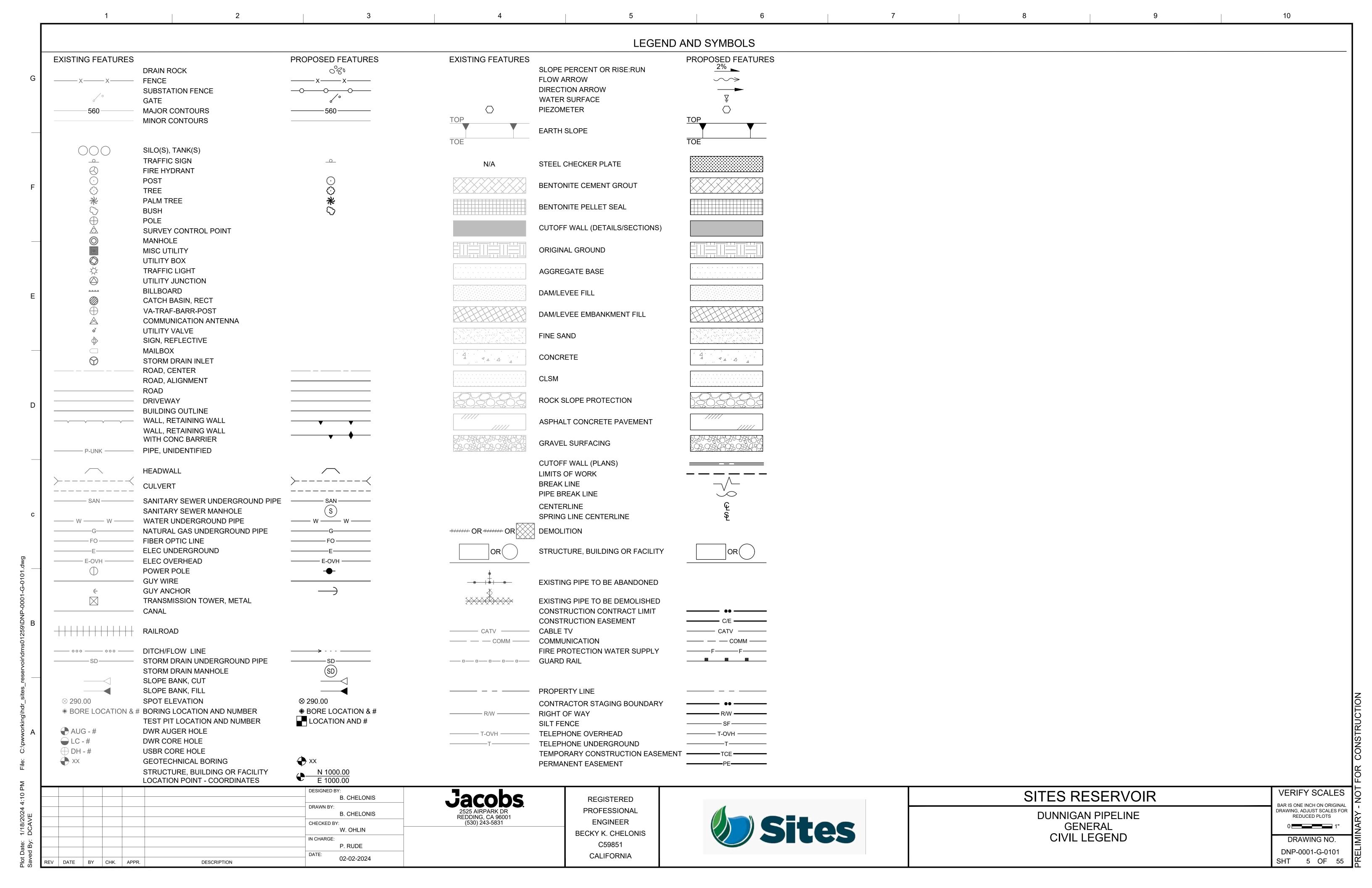
DUNNIGAN PIPELINE GENERAL INDEX OF DRAWINGS

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

> DRAWING NO.

	1	2	3	4		5		6	7	8		9		10
@ L	AT ANGLE	CJ CONTROL JOINT CJ CONSTRUCTION		C END HORIZONTAL CURVE CC END CURB RETURN	GLZ CMU G	LAZING LAZED CONCRETE MASONRY UNITS	LT WT LTG	LIGHTING	PC PCC	POINT OF CURVATURE, PIECE POINT OF COMPOUND CURVE, PRECAST CON		REVERSE RIVET		UPSTREAM U.S. ARMY CORPS OF ENGINEERS
A/C A/C UNIT AB	AIR CONDITIONING AIR CONDITIONING UNIT ANCHOR BOLT, AGGREGATE BASE	CKT CIRCUIT CKT BRKR CIRCUIT BREAKEI CL CONTROL LINE	_	EF, E.F. EACH FACE EG EXISTING GRADE EJ EXPANSION JOINT	GOVT G GPM G	ROUND OVERNMENT ALLONS PER MINUTE	LTNG LVR LWC	LOUVER	PCF PCP PCVC	POUNDS PER CUBIC FOOT CEMENT PLASTER (PORTLAND) POINT OF COMPOUND VERTICAL CURVE	R/W, RC RW RWC	OW RIGHT-OF-WAY RELIEF WELL, RAW WATER RAINWATER CONDUCTOR	USBR UTIL	UNITED STATES BUREAU OF RECLAMATION UTILITY
ABUT ABV AC	ABUTMENT ABOVE ALTERNATING CURRENT.	CENTER LINE CL-6 CHAIN LINK FENC CLG CEILING	` '	ELEVATION - GRADE OR BUILDING ELECT ELECTRIC ELEVATION	GRAN G	YPSUM TILE RANITE RADE LINE	LWT m M&B	METER(S)	PD PED PERF	PAVEMENT DRAIN PEDESTAL PERFORATE(D)	S SA SAFCA	SOUTH SUPPLY AIR SACRAMENTO AREA FLOOD CONTROL AGENCY	UV V VAC	UNIT VENTILATOR VOLT VACUUM
ACC	ASPHALT CONCRETE BASE ACCESSIBLE	CLG HT CEILING HEIGHT CLGL CLEAR GLASS	E E	ELV ELECTRIC VAULT EXPANDED METAL	GRTG G GST G	RATING BLAZED STRUCTURAL TILE	MAINT MACH	MAINTENANCE MACHINE	PERIM PG	PERIMETER PROFILE GRADE	S.B. SB	SECURITY BARS SOIL BENTONITE, SPLASH BLOCK	VAR VB	VARIES, VARNISH VINYL BASE
ACI ACR ACS DR	AMERICAN CONCRETE INSTITUTE ACRYLIC PLASTIC ACCESS DOOR	CLL CONTRACT LIMIT CLO CLOSET CLOS CLOSURE	E E	MB EMBANKMENT  MD ESTIMATED MAXIMUM DEMAND  MER EMERGENCY	GT G GWT G	SLAZED STRUCTURAL UNITS SROUT SLAZED WALL TILE	MAF MAS MATL	MASONRY MATERIAL(S)	PG&E PGP PH	PACIFIC GAS & ELECTRIC PUMPING AND GENERATING PLANT PILOT HOLE, PHASE	SBF SC SCB	SOUTH BAY FOUNDRY SOLID CORE SOIL-CEMENT-BENTONITE	VC VCT VCT	VERTICAL CURVE VINYL COMPOSITION TILE VITRIFIED CLAY TILE
ACS PNL ACSR ACST	ACCESS PANEL ALUMINUM CABLE STEEL REINFORCED ACOUSTIC	CLR CLEAR, CLEARAN CLS CLASS CLSM CONTROLLED LO	E	INCL ENCLOSE(URE) INGR ENGINEER INTR ENTRANCE, ENTERING	GYP BD G	YPSUM YPSUM BOARD YPSUM PLASTER	MAX MB MBR	MACHINE BOLTS	PHAR PI PIPU	PHARMACY POINT OF INTERSECTION PREFAB ISOLATION POWER UNIT	SCCB SCH, SC SCRN	SLAG CEMENT-CEMENT-BENTONITE CHED SCHEDULE SCREEN	VD VENT VERT	VAULT DOOR VENTILATOR(TION) VERTICAL
ACST ACT ADDM	ACOUSTICAL CEILING TILE ADDENDUM	CLWG CLEAR WIRED GL cm CENTIMETER(S)	ASS E	OD EDGE OF DECK EP END POINT, ELECTRICAL PANELBOARD	H H HB H	EIGHT OSE BIBB	MC MCJ	MEDICINE CABINET MASONRY CONTROL JOINT	PIV PL	POST INDICATING VALVE PROPERTY LINE, PLATE	SCT SD	STRUCTURAL CLAY TILE SADDLE DAM, STORM DRAIN	VEST VF	VESTIBULE VINYL FABRIC
ADH ADJ ADO	ADHESIVE ADJACENT, ADJOINING, ADJUSTABLE, ADJUST AUTOMATIC DOOR OPERATOR	CM CORRUGATED ME CMP CORRUGATED ME CMPST COMPOSITE	ETAL PIPE E	PRF EXPLOSION PROOF PY EPOXY COATING SA ENVIRONMENTALLY SENSITIVE AREA	HCD H	OLLOW CORE ALON CONTAINMENT DAMPER ANDICAPPED	MCO MDS MECH	METAL DIVIDER STRIP	P/L PLAM PLAS	PROPERTY LINE PLASTIC LAMINATE PLASTER	SDI SECT SEQ	STEEL DOOR INSTITUTE SECTION SEQUENCE	VFD VG VH	VARIABLE FREQUENCY DRIVE VERTICAL GRAIN VINYL HOMOGENEOUS
AFF AGGR	ABOVE FINISHED FLOOR AGGREGATE	CMU CONCRETE MASC CND CONDUIT	DNRY UNIT E	Q EQUAL QUIP EQUIPMENT	HD HI HD HI	EAD EAVY DUTY	MECH RM MED	MECHANICAL ROOM MEDIUM	PLAT PLBG	PLATFORM PLUMBING	SFGL SFTU	SAFETY GLASS STRUCTURAL FACING TILE UNIT	VJ VNR	V-JOINT(ED) VENEER
F AHR AHU AI	ANCHOR AIR HANDLING UNIT AREA INLET	CNL CONDUCTIVE NEC	E	SCAL ESCALATOR ST ESTIMATE(D) VC END VERTICAL CURVE	HD JT H	ARDBOARD EAD JOINT EADER	MEMB MES MFD	METAL EDGE STRIP	PLF PLG PL GL	POUNDS PER LINEAR FOOT PILING PLATE GLASS	SFU SG SHLDR	STRUCTURAL FACING UNIT SHEET GLASS SHOULDER	VOL VR VRM	VOLUME VAPOR RETARDER VERMICULITE
AIC AISC	AMPERE INTERRUPTING CAPACITY AMERICAN INSTITUTE OF STEEL CONSTRUCTION ACTIVE LEAF	CO COUNTY, CLEANO CO2 CARBON DIOXIDE COL COLUMN	E	E.W. EACH WAY EWC ELECTRIC WATER COOLER EWT ENTERING WATER TEMPERATURE	HDWD H	ARDWARE ARDWOOD IGH EARLY-STRENGTH CEMENT	MFG MFR MG	MANUFACTURER	PLYWD PNL PT	PLYWOOD PANEL PAINT(ED)	SHT SHTHG SHV	SHEET SHEATHING SHELVING	VS V.T. VTR	VENT STACK VOLTAGE TRANSFORMER VENT THRU ROOF
A.L. ALT ALUM	ALTERNATE ALUMINUM	COM COMMON COMB COMBINED, COMB	E BUSTION E	EXC EXCAVATE, EXCAVATION EXHAUST	HEX HI HH H.	EXAGON ANDHOLE	MGT MH	MATTE-GLAZED TILE MANHOLE	POB POC	POINT OF BEGINNING POINT OF HORIZONTAL CURVE	SIM SJI	SIMILAR STEEL JOIST INSTITUTE	VWC W	VINYL WALL COVERING WEST, WATER
AMB AMP ANOD	AMBIENT AMPERE ANODIZE	COMPT COMPARTMENT CONC CONCRETE COND CONDUIT	Ē	XH A EXHAUST AIR XST, (E) EXISTING XP EXPANSION	HM H	OOK(S) OLLOW METAL ANDRAIL	MI MIN MIRR	MINIMUM	POE POI POL	POINT OF ENDING POINT OF INTERCONNECTION POLISHED	SKLT SLO SLNT	SKYLIGHT SLOPE SEALANT	W/ W/OUT WB	WITH WITHOUT WET BULB
ANSI APPD	AMERICAN NATIONAL STANDARDS INSTITUTE APPROVED	CONN CONNECT CONSTRUCTION	_	EXP EXPOSED EXPANSION BOLT	HORIZ, HOR H HP H	ORIZONTAL INGE POINT, HIGH PRESSURE, HORSEPOWE	MISC	MISCELLANEOUS METAL LATH	PORC PORT	PORCELAIN PORTABLE	SLV SM	SLEEVE SHEET METAL	WBL WC	WOOD BLOCKING WATER CLOSET
APPROX ARCH ARFCD	APPROXIMATE ARCHITECT AMERICAN RIVER FLOOD CONTROL DISTRICT	CONT CONTINUE CONTR CONTRACTOR CONV CONVENTIONAL	E F F.	EXT EXTERIOR FAHRENHEIT A FIRE ALARM	HPU H' HR H	IGH POINT YDRAULIC POWER UNIT OUR	ML MLDG MLWK	MILLWORK	POT POVC PP	POINT OF TANGENT POINT OF VERTICAL CURVE POWER POLE	SMS SOV SPC	SHEET METAL SCREWS SHUT OFF VALVE SPACER	W/C WCO WD	WHEELCHAIR WOOD-CASED OPENING WIDTH, WOOD, WOOD DOOR
ARI ARN ARS	AMERICAN REFRIGERATION INSTITUTE ARCADE CREEK NORTH ARCADE CREEK SOUTH	COORD COORDINATE CORR CORRIDOR	F.	A FRESH AIR AC FIRE APPARATUS CLOSET AI FRESH AIR INTAKE	HS H HSGYP H	IGH STRENGTH IGH-STRENGTH GYPSUM PLASTER OUSEKEEPING	mm MNIC	MILLIMETER(S) MATERIAL NOT IN CONTRACT	PPGL PPM PR	POLISHED PLATE GLASS PARTS PER MILLION PAIR	SPCL SPD SPEC	SPECIAL SOUNDPROOF DOOR SPECIFICATION, SPECIAL	WDSP WDW	WASTE DISPOSER WINDOW WIDE FLANGE
E ARS ARV ASB	AIR RELEASE VALVE ASBESTOS	COV COVER CPRS COMPRESSIBLE CP CATCH POINT	F <sup>1</sup>	BRK FIRE BRICK C FOOT CANDLE	HT H HTG H	EIGHT EATING	MO MOD	MASONRY OPENING MODULAR	PRC PREFAB	PAIR POINT OF REVERSE CURVE PREFABRICATE(D)	SPEC SPF SP FIN	SOUNDPROOF SPECIAL FINISH	wr WGL WH	WIRED GLASS WALL HUNG
ASC ASPH ASTM	ABOVE SUSPENDED CEILING ASPHALT AMERICAN SOCIETY FOR TESTING AND MATERIALS	CPT CONE PENETRAT CR CREEK	ION TEXT, CARPET F F F F	C BRK FACE BRICK CG FACING CJ FLOOR CONSTRUCTION JOINT	HVAC H	EATER EATING, VENTILATING AND AIR CONDITIONIN EADWALL, HIGH WATER	MOD. NG MON MOT	MONUMENT	PREFIN PREFMD PRKG	PREFINISHED PREFORMED PARKING	SPH SPKR SQ	SPACE HEATER SPEAKER SQUARE	WH WHB WHM	WATER HEATER WHEEL BUMPER WATT-HOUR METER
ATC AUTO	ACOUSTICAL TILE CEILING AUTOMATIC	CRES CORROSIVE RESI CRG CROSS GRAIN		CO FLOOR CLEANOUT CU FAN COIL UNIT	HWM H HWY H	IGH WATER MARK IGHWAY	MP MPG	MOVABLE PARTITION MAXWELL / SITES PUMPING AND GENERATING	PROJ PRV	PROJECT PRESSURE-REGULATING VALVE	SQ SQHD S&R	SQUARE HEAD SHELF AND ROD	WI WKSH	WROUGHT IRON WORK SHOP
AVE AVG AWG	AVENUE AVERAGE AMERICAN WIRE GAUGE	CRS COURSE(S) CS CAST STONE CSK COUNTERSUNK	F F F	D FLOOR DRAIN DMPR FIRE DAMPER DTN FOUNDATION	Hz H	YDRAULIC ERTZ ITERSTATE 80	MR MRB MRD		PRVC PS P.S.	POINT OF REVERSE VERTICAL CURVE PUMP STATION, PIPE SPACE PRESSED STEEL	SS SST	SANITARY SEWER, SERVICE SINK, STANDING SEAM (ROOF) STAINLESS STEEL	WM W/O WP	WATER METER, WIRE MESH WITHOUT WATERPROOF(ING)
AWT BB	ACOUSTICAL WALL TREATMENT BEGINNING OF BRIDGE, BULLETIN BOARD	CSMT CASEMENT CT COURT, CERAMIC		E FIRE EXTINGUISHER EB FIRE EXTINGUISHER BRACKET	IB IN IC IN	MPORTED BORROW NTERCOM	MS MT	MACHINE SCREWS METAL THRESHOLD	PS&E PS CONC	PLANS, SPECIFICATIONS AND ESTIMATES PRESTRESSED CONCRETE	ST STA	STREET STATION	WP WP	WEATHERPROOF WORKING POINT
B-B BC BD	BACK-TO-BACK BEGIN HORIZONTAL CURVE, BOOKCASE BOARD	C TO C CENTER TO CENT CTR CENTER		EC FIRE EXTINGUISHER CABINET F FACTORY FINISH F EL FINISH FLOOR ELEAVATION	IE IN	ISIDE DIAMETER IVERT ELEVATION LUMINATING ENGINEERING SOCIETY OF	MT MTD MTFR	MOUNT MOUNTED METAL FURRING	PSF PSI PT	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT OF TANGENCY, PNEUMATIC TUBE	STD STG STL	STANDARD SEATING STEEL	WR WRB WS	WASTE RECEPTACLE WARDROBE WATER SURFACE, WATERSTOP
BDRY BEG	BOUNDARY BEGIN BRICK EXPANSION JOINT	CU CONDENSING UN Cu COPPER	IT F	G FINISHED GRADE GL FIBERGLASS H FIRE HYDRANT	ILK IN	ORTH AMERICA ITERLOCK ICH, INCHES	MTL MVBL MULL	METAL MOVABLE MULLION	PT. PT CONC	POINT POST-TENSIONED CONCRETE	STOR ST PR STR	STORAGE STATIC PRESSURE STRINGER	W.S. WSCT	WASTE STACK WAINSCOT WATERSIDE
D BEJ BEV BFV	BEVEL BUTTERFLY VALVE	CU FT CUBIC FEET CUH CABINET UNIT HE CU YD CUBIC YARDS	F	H FLAT HEAD HC FIRE HOSE CABINET	INCIN IN INCL IN	NCINERATOR NCLUDED	MUTD MW	MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES MONITORING WELL	PTN PTR	PAPER TOWEL DISPENSER PARTITION PAPER TOWEL RECEPTACLE	STRUCT STWY	STRUCTURAL STAIRWAY	WSE WSP	WATER SURFACE ELEVATION WELDED STEEL PIPE
BITUM BJT BK	BITUMINOUS BED JOINT BACK	CUFPB CENTRAL VALLEY CULV CULVERT CV CEILING VENT	FLOOD PROTECTION BOARD F F	HMS FLAT HEAD MACHINE SCREW HR FIRE HOSE RACK HS FIRE HOSE STATION	INSUL IN	ISULATING FILL ISULATION ITERIOR	N N/A NAD83		PV PVC PVG	PAVED POLYVINYL CHLORIDE PAVING	SUB FL SUSP	SUBFLOOR SUSPENDED SHEET VINYL	WT WTH	WEIGHT WIDTH WATER VALVE
BKF BL	BACKFILL BUILDING LINE	CVH CONDUCTIVE VIN (SHEET TYPE)		HWS FLAT HEAD WOOD SCREW IG FIGURE	INTM IN INV IN	ITERMEDIATE IVERT	NAS NAT	NORTH AREA STREAMS NATURAL	PVMT PW	PAVEMENT PASS WINDOW	SW SWBD	SWITCH SWITCHBOARD	W/W WWF	WALL TO WALL WELDED WIRE FABRIC
BLDG BLKT BLVD	BUILDING BLANKET BOULEVARD	CVHS CENTRAL VALLEY CW COLD WATER CYL CYLINDER	F	IN FINISH IN FLR FINISH FLOOR IXT FIXTURE	IP IR	NLET/OUTLET RON PIPE RON PIPE SIZE	NAVD88 NC NEC	NORMALLY CLOSED	PWS QT QT.	PIPELINE WARNING SIGN QUARRY TILE QUART	SWPPP SWR SYM	STORM WATER POLLUTION PREVENTION PLAN SEWER SYMBOL	WWM WWR WY	WELDED WIRE MESH WELDED WIRE REINFORCEMENT WAY
BLW BM	BELOW BENCHMARK	D DEPTH d PENNY (AS IN NAI	L - 10D) F	JT FLUSH JOINT L FLOW LINE	I.P.S. IN IR IR	NSIDE PIPE SIZE RRIGATION	NEMA ASSOCIA	NATIONAL ELECTRICAL MANUFACTURERS	QTR 1/4 RND	QUARTER QUARTER ROUND	SYMM SYNTH	SYMMETRICAL SYNTHETIC	XFMR XSEC	TRANSFORMER CROSS SECTION
BMP BO BOT	BEST MANAGEMENT PRACTICE BOTTOM OF BOTTOM	D.O.T. DEPARTMENT OF DAT DATUM DB DRY BULB	TRANSPORTATION F F	LASH FLASHING LR FLOOR LEX FLEXIBLE	J-BOX JI	ANITOR'S CLOSET UNCTION BOX UNCTION	NEMDC NFPA NGS	NATOMAS EAST MAIN DRAINAGE CANAL NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL GEODETIC SURVEY	QTY R RA	QUANTITY RADIUS, RANGE, RISER RETURN AIR	SYS T TAN	SYSTEM TREAD TANGENT	YD YD YR	YARD YARD DRAIN YEAR
BP BR BRCG	BEGINNING POINT, BACK PLASTER(ED) BRIDGE BRACING	DBL DOUBLE DBL ACT DR DOUBLE ACTING		LG FLOORING LR PL FLOOR PLATE LUOR FLUORESCENT	JT JO	OIST OINT ILOPOUND (1000 POUNDS)	NGVD Ni NIC	NATIONAL GEODETIC VERTICAL DATUM NICKEL NOT IN CONTRACT	RAB RA GR	RABBETED RETURN AIR GRILLE RETURN AIR REGISTER	TB TBD	TOWEL BAR TO BE DETERMINED	YRS	YEARS
C BRDG BRG	BRIDGING BEARING	DCJ DOWELED CONTROL DCJT DUMMY CONTROL DEG DEGREE		N FENCE NK FUNKS	KIT KI KOP KI	ITCHEN NOCKOUT PANEL	NL N.L.	NAILABLE NEOPRENE LATEX	RB RBL	RUBBER BASE, RESILIENT BASE RUBBLE STONE	T-C TCCA	TERRA COTTA/ TEHAMA-COLUSA TEHAMA-COLUSA TEHAMA-COLUSA CANAL AUTHORITY		
BRG PL BRK BRKT	BEARING PLATE BRICK BRACKET	DEMO DEMOLITION DEPR DEPRESSION DEPT DEPARTMENT	Fi Fi Fi	O FIBER OPTIC OC FACE OF CONCRETE OF FACE OF FINISH	kV KI	ICKPLATE ILOVOLTS ILOVOLT AMPERES	N.M.W.S. NM NO	NEW MAX WATER SURFACE NONMETALLIC NUMBER. NORMALLY OPEN	RBR RC RCP	RUBBER REMOTE CONTROL REINFORCED CONCRETE PIPE	TCP TEL TEMP	TRAFFIC CONTROL PLAN TELEPHONE TEMPORARY, TEMPERATURE		
BRZ BS	BRONZE BOTH SIDES	DET DETAIL DF DRINKING FOUNT	F	OM FACE OF MASONRY OS FACE OF STUD	kVAR KI kW KI	ILOVOLT AMPERES REACTIVE ILOWATT	NOM NR	NOMINAL NOISE REDUCTION	RCVR RD	RECEIVER ROAD, ROOF DRAIN	TER TERM	TERRAZZO TERMINAL		
BSMT Btu — BtuH	BASEMENT BRITISH THERMAL UNIT BTU PER HOUR	DH DOUBLE HUNG DH DUCT HEATER DI DRAINAGE INLET,	DROP INLET F	P FIRE PROTECTION / FIREPROOF / FIRE PARTITION PM FEET PER MINUTE	L LE	EYWAY ENGTH ABORATORY	NRC N'REQD NTS	NOT REQUIRED	RDG INS RDY RECPT	RIGID INSULATION ROADWAY RECEPTACLE	T&G TG TGL	TONGUE AND GROOVE TOP OF GRADE TOGGLE		
BTWN BV BUR	BETWEEN BALL VALVE BUILT-UP ROOFING	DIA, Ø DIAMETER DIAG DIAGONAL	F	R FIRE RESISTANT / FRAME RG FORGED RMG FRAMING	LAM LA	ADDER AMINATE EAVING AIR TEMPERATURE	0-0 0A	OUT-TO-OUT OUTSIDE AIR	REC ROOM RECT REF	M RECREATION ROOM RECTIFIER REFERENCE	TH THK	TRUSS HEAD THICK(NESS)		
BVC BW	BEGIN VERTICAL CURVE BOTH WAYS, BARBED WIRE	DIM DIMENSION DIP DUCTILE IRON PIF DISC DISCONNECT	PE F	RT FIRE-RETARDANT S FULL SIZE	LAU LA LAV LA	AUNDRY AVATORY	OBW OC	OBSERVATION WINDOW ON CENTER	REFL REFR	REFLECT REFRIGERATION	THW TK BD	THRESHOLD TOP OF HEADWALL TACKBOARD		
CAB CAP CARV	CABINET CAPACITY COMBINATION AIR RELEASE VALVE	DISP DISPENSER DIST DISTANCE DISTR PNL DISTRIBUTION PA	F F NFI F	STNR FASTEN(ER) T FEET, FOOT TG FOOTING	LB P	AG BOLT OUND ABEL	OCEW OD OFC	OUTSIDE DIAMETER	REG REG REINF	REGISTER REGLET REINFORCE	TKS TO TOC	TACKSTRIP TOP OF TOP OF CONCRETE		
B CB CBD	CATCH BASIN, CEMENT BENTONITE COLUSA BASIN DRAIN	DIV DIVISION DEAD LOAD	F F	TURG FURRING TUT FUTURE	LBR LU LC LI	UMBER IGHT CONTROL	OFST OG	OFFSET ORIGINAL GROUND	REL REM	RELOCATE REMOVE(ABLE)	TOL TOP	TOP OF LEVY, TOLERANCE TOP OF PIPE		
C-C CCS CCT	CENTER-TO-CENTER CALIFORNIA COORDINATE SYSTEM CUBICLE CURTAIN TRACK	DMPF DAMPPROOFING DMPR DAMPER DMT DEMOUNTABLE	F F G	W FIRE WATER WC FABRIC WALL COVERING NATURAL GAS	LDCC LC LDG LC	OAD OW DENSITY CELLULAR CONCRETE OADING	OGL OH OHW	OVERHEAD OVERHEAD WIRE	REPL REQD RESIL	REPLACEMENT REQUIRED RESILIENT	TOPO TOS TOT	TOPOGRAPHY TOP OF SLOPE, TOP OF SLAB, TOP OF STEEL TOTAL		
CCTV CE CEM	CLOSED CIRCUIT TELEVISION COVER ELEVATION CEMENT	DN DOWN DNP DUNNIGAN PIPEL	_	GA GAGE GAL GALLON(S) GALV GALVANIZED	LG LE	INEAR FOOT (FEET) ENGTH EFT HAND(ED)	OHWM OHMS OHWS		RET REV	RETAINING, RETURN REVISED, REVISION ROOFING	TOW TP	TOP OF WALL TELEPHONE POLE TOUGH TO PAREN DISPENSED		
CEM PLAS CER	S CEMENT PLASTER CERAMIC	DR DOOR, DRAIN, DR DRB DRAINBOARD DR CL DOOR CLOSER	G G	GALV STL GALVANIZED STEEL GB GRADE BREAK, GRAB BAR	LIN LI LKR LO	INEAR OCKER	OPH OPNG	OPPOSITE HAND OPENING	RH RH	RELATIVE HUMIDITY RIGHT HAND	TPD TPTN TRANS	TOILET PAPER DISPENSER TOILET PARTITION TRANSITION, TRANSOM, TRANSVERSE		
I CFDM CFI CFLG	COFFER DAM CONDUCTIVE FLOORING COUNTERFLASHING	DS DOWNSTREAM, D DOUBLE STRENG DSM DEEP SOIL MIX	TH (GLASS) G	GC GENERAL CONTRACTOR GCID GLENN-COLUSA IRRIGATION DISTRICT GEN GENERAL	LLD LE	IVE LOAD EAD-LINED DOOR UMEN	OPP OPQ OPS	OPPOSITE OPAQUE OPERATIONS	RH RK RLG	ROOF HATCH RACK RAILING	TRR TRW TSTAT	TERMINAL REGULATING RESERVOIR TERMINAL REGULATING RESERVOIR WEST THERMOSTAT		
CFM CFS	CUBIC FEET PER MINUTE CUBIC FEET PER SECOND	DTL DETAIL DT DRAIN TILE	G G	GROUND FACE GROUND FAULT CIRCUIT INTERRUPTER	LMST LI LNTL LI	IMESTONE INTEL	OPT OPTN	ONE PASS TRENCH METHOD OPTION	RM RND	RIVER MILE, ROOM ROUND	TV TYP	TELEVISION TYPICAL		
CG CH BD CHFR	CORNER GUARD CHALKBOARD CHAMFER	DVTL DOVETAIL DWG DRAWING DWLS DOWELS	_	GFE GOVERNMENT-FURNISHED EQUIPMENT GFE/CI GOVERNMENT-FURNISHED EQUIPMENT CONTRACTOR INSTALLED	LOL LA LONG LO	OCATION AYOUT LINE ONGITUDINAL	OS & Y OSHA	OCCUPATIONAL SAFETY AND HEALTH	RO ROW RP	ROUGH OPENING RIGHT OF WAY RADIUS POINT, RETRACTABLE PARTITION	UC UG, UGI UH	UNIT COOLER ND UNDERGROUND UNIT HEATER		
A CHIM CHK	CHIMNEY CHECK	DWR DEPARTMENT OF DIRECT EXPANSION	WATER RESOURCES, DRAWER GOOD	GG GOLDEN GATE DAM GI GALVANIZED IRON	LP LI LPD LI	IGHTPROOF IGHTPROOF DOOR IGHTPROOF LOUVER	OWGL P	OBSCURE WIRED GLASS POLE	RPM RPRT	REVOLUTIONS PER MINUTE RAISED PATTERN RUBBER TILE	UL ULDC	UNDERWRITERS LABORATORIES URBAN LEVEE DESIGN CRITERIA		
CHNL CHR PL	CHANNEL CHROME PLATED CAST IRON, CURB INLET	DWY DRIVEWAY E EAST, EASTING EA EACH, EXHAUST	AIR G	GIP GALVANIZED IRON PIPE GKT GASKET(ED) GL GLASS	LPT LO	OW POINT ONG RADIUS, LIVING ROOM	PA PAR PB	I ANO BAIL	RR RSP RT	RAILROAD ROCK SLOPE PROTECTION RIGHT	UNEX UNFIN U.P.R.R	. UNION PACIFIC RAILROAD		
CIP CIRC	CAST-IN-PLACE CIRCULAR	EAT ENTERING AIR TE EB END OF BRIDGE		GL BLK GLASS BLOCK GLF GLASS FIBER		ANDSIDE, LAWN SPRINKLER EFT, LIGHT	PBD PBS		RTE RTF	ROUTE RUBBER TILE FLOOR	UPS UR	UNINTERRUPTIBLE POWER SUPPLY URINAL		
			DESIGNED BY: D. CAVE	Jacobs	, F	REGISTERED				SI	ITES F	RESERVOIR		VERIFY SCALES
			DRAWN BY: D. CAVE	2525 AIRPARK DR REDDING, CA 96001	PF	ROFESSIONAL	1		r		DUNNIG	SAN PIPELINE		BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
DCA			CHECKED BY: W. OHLIN	(530) 243-5831		ENGINEER AYNE J. OHLIN		Sites			GE	ENERAL		0 1"
d By:	P RU		IN CHARGE: P. RUDE			72287					ADDKI	EVIATIONS		DRAWING NO. DNP-0001-G-0010
REV DATE	1 (8	RIPTION	DATE: 02-02-2024			CALIFORNIA								SHT 3 OF 55





#### **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
- 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
- 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: INTERIOR, DRY, HUMIDITY CONTROLLED AREAS:

WALLS AND SLABS: 3/4" BEAM STIRRUPS AND COLUMN TIES: 1 1/2" OTHER CONCRETE SURFACES:

- 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 8. 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:

CONCRET	E DESIGN STRE	NGTH =	4,500 P	SI **	GRADE 60 REINFORCING STEEL					
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLIC	E LENGTH ***									
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
= 3"	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
= 4"	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
≥ 6"	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDME	NT LENGTH									
SPACING	TOP BAR ★	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
= 3"	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING	TOP BAR ★	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
= 4"	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING	TOP BAR ★	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
≥ 6"	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".

DATE: 02-02-2024 DESCRIPTION DATE BY CHK. APPR.

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

REGISTERED **PROFESSIONAL ENGINEER** JEREMY KELLOGG **CALIFORNIA** 



SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL** STRUCTURAL NOTES 1

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

> DRAWING NO. DNP-0001-G-0301

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CAST IN PLACE CONCRETE WELDING **DEFERRED SUBMITTALS** WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION: 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS): D1.1. STRUCTURAL WELDING CODE – STEEL **HYDRAULIC STRUCTURES:** 4.500 PSI 3.500 PSI ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK. CONCRETE FILL AND ENCASEMENTS: D1.2, STRUCTURAL WELDING CODE – ALUMINUM G D1.3. STRUCTURAL WELDING CODE – SHEET STEEL D1.4, STRUCUTRAL WELDING CODE - REINFORCING STEEL 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS FOR ACI 318 AND ACI 350): **HYDRAULIC STRUCTURES:** 5,000 PSI D1.6, STRUCTURAL WELDING CODE - STAINLESS STEEL CONCRETE FILL AND ENCASEMENTS: 4.000 PSI 2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 CLAUSE 7.25. CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE. WALLS AND SLABS OF WATER HOLDING BASINS AND BELOW GRADE STRUCTURES UNLESS 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. SPECIFICALLY NOTED OTHERWISE. 4. BUTT JOINT AND GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED 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. STRUCTURAL STEEL AND METAL FABRICATIONS ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: PLACING ADJACENT CONCRETE, EXPOSING CLEAN AGGREGATE OF 1/4" AMPLITUDE SOLIDLY W-SHAPES AND CHANNELS A992 EMBEDDED IN MORTAR MIX. MISCELLANEOUS SHAPES INCLUDING OR ANCHORAGE SYSTEM CALCULATIONS ANGLES, PLATES, ETC. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, A500, GRADE C SQUARE OR RECTANGULAR STEEL TUBING CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE. STEEL PIPE A53, GRADE B STAINLESS STEEL SHAPES A276 NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE. 2. ALUMINUM SHALL CONFORM TO THE FOLLOWING STANDARDS: STRUCTURAL SHAPES CONDUIT SHALL NOT BE PLACED PARALLEL WITH BEAM OR COLUMN REINFORCEMENT UNLESS B209 PLATES SPECIFICALLY INDICATED IN DRAWINGS. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL PATCH FORM TIE HOLES IN ACCORDANCE WITH STANDARD DETAILS. 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 5. ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT 6. 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. **DESIGNED BY:** SITES RESERVOIR J. KELLOGG **REGISTERED PROFESSIONAL** Sites **DUNNIGAN PIPELINE** D. CAVE REDDING, CA 96001 **ENGINEER** (530) 243-5831 **GENERAL** H. HENRIKSON JEREMY KELLOGG STRUCTURAL NOTES 2 IN CHARGE: **CALIFORNIA** 02-02-2024 DESCRIPTION DATE BY CHK. APPR

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

2. 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

SPECIFICATION SECTION	ITEM
01 88 15	ANCHORAGE AND BRACING
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

**VERIFY SCALES** 

BAR IS ONE INCH ON ORIGINAL

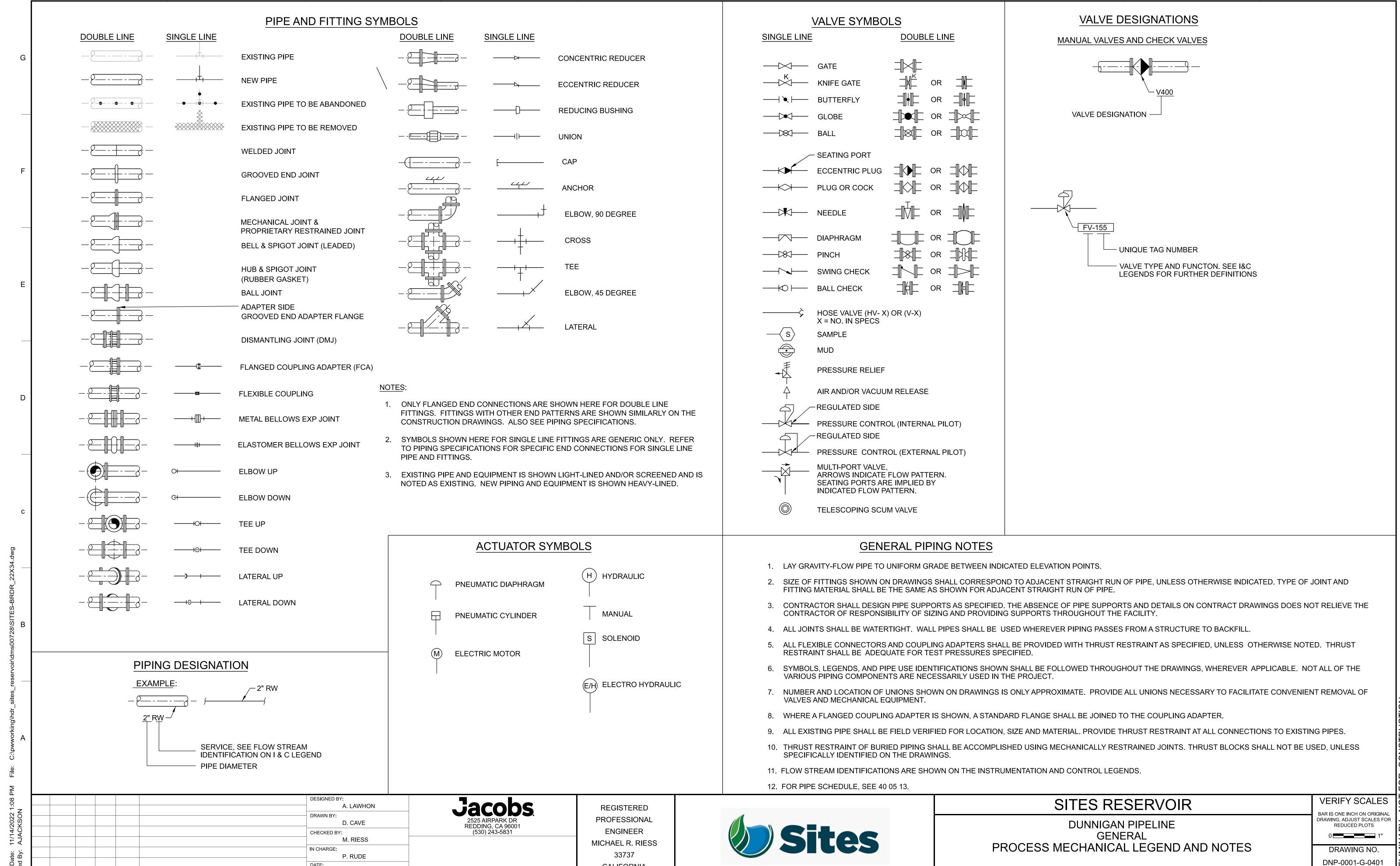
DRAWING, ADJUST SCALES FOR

REDUCED PLOTS

DRAWING NO.

DNP-0001-G-0302

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**CALIFORNIA** 

02-02-2024

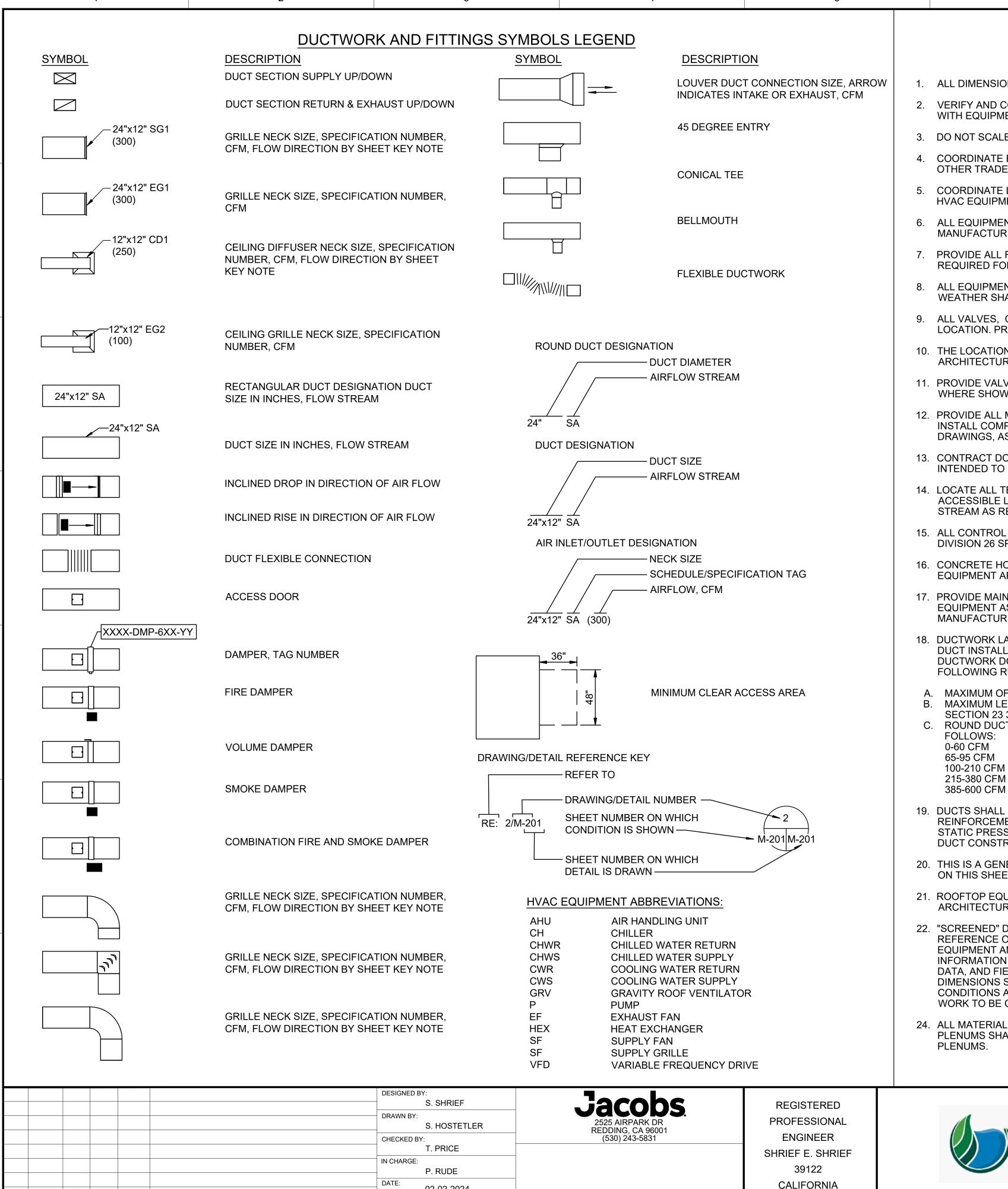
DATE BY CHK. APPR.

DESCRIPTION

Y - NOT FOR CONSTRUCT

SHT 8 OF 55

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02-02-2024

DESCRIPTION

DATE BY CHK. APPR.

# GENERAL HVAC NOTES

- 1. ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.
- VERIFY AND COORDINATE EQUIPMENT LAYOUT, SIZE, AND CONNECTING SERVICES WITH EQUIPMENT ACTUALLY SELECTED FOR INSTALLATION
- 3. 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.
- 7. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
- 8. 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.
- 10. THE LOCATION OF CEILING AIR INLETS AND OUTLETS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- 11. PROVIDE VALVED DRAINS AT LOW POINTS, ALL AIR VENTS, WHERE SPECIFIED AND WHERE SHOWN ON DRAWINGS AND STANDARD DETAILS.
- 12. 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.
- 13. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- 14. 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.
- 15. ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND **DIVISION 26 SPECIFICATIONS.**
- 16. CONCRETE HOUSEKEEPING PADS SHALL BE SIZED APPROPRIATELY FOR ACTUAL EQUIPMENT APPROVED FOR INSTALLATION.
- 17. PROVIDE MAINTENANCE AND SAFETY CLEARANCES AROUND EACH TYPE OF HVAC EQUIPMENT AS SHOWN. SPECIFIED OR OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- 18. 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.** C. 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 1305-1800 CFM 100-210 CFM 8 INCH 18 INCH 215-380 CFM 10 INCH 1805-2300 CFM 20 INCH

12 INCH

- 19. 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.
- 20. THIS IS A GENERAL LEGEND SHEET FOR HVAC DRAWINGS. SOME ITEMS CONTAINED ON THIS SHEET MAY NOT BE USED ON THIS SPECIFIC PROJECT
- 21. ROOFTOP EQUIPMENT CURBS ARE SPECIFIED IN SECTION 23 31 13. SEE ARCHITECTURAL DETAILS FOR FLASHING REQUIREMENTS.
- 22. "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.
- 24. ALL MATERIALS, FITTINGS, COVERS, AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE AND UL LISTED FOR USE IN RETURN AIR PLENUMS.

- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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
- 29. 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.
- 30. 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.
- 31. 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.
- 32. DUCT SIZES INDICATED ARE CLEAR DIMENSIONS INSIDE THE DUCT OR DUCT LINING. SHEET METAL SIZES ARE LARGER FOR INTERNALLY LINED DUCTWORK.
- 33. MINIMUM INSULATION THICKNESSES FOR DUCTWORK SHALL BE AS INDICATED IN THE SPECIFICATIONS.
- 34. DUCT CONNECTIONS TO EQUIPMENT, PIPING SIZES TO EQUIPMENT, AND EQUIPMENT SUPPORTS SHALL BE VERIFIED AND ADJUSTED TO MATCH ACTUAL EQUIPMENT SELECTED FOR INSTALLATION
- 35. 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.
- 36. 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.
- 37. CONTROL DAMPER SIZES SHALL MATCH DIMENSIONS OF ASSOCIATED LOUVER OR DUCT UNLESS OTHERWISE INDICATED.
- 38. 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.
- 39. INSULATION SHALL BE PROVIDED FOR EQUIPMENT, PIPING, AND DUCT SYSTEMS AS INDICATED IN SECTIONS 23 07 00 AND 40 42 00 AND STANDARD DETAILS.
- 40. BOTTOM OF DUCT (BOD) ELEVATIONS ARE MEASURED FROM FINISHED FLOOR TO THE BOTTOM OF THE DUCT BEFORE APPLYING INSULATION.
- 41. 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.



SITES RESERVOIR

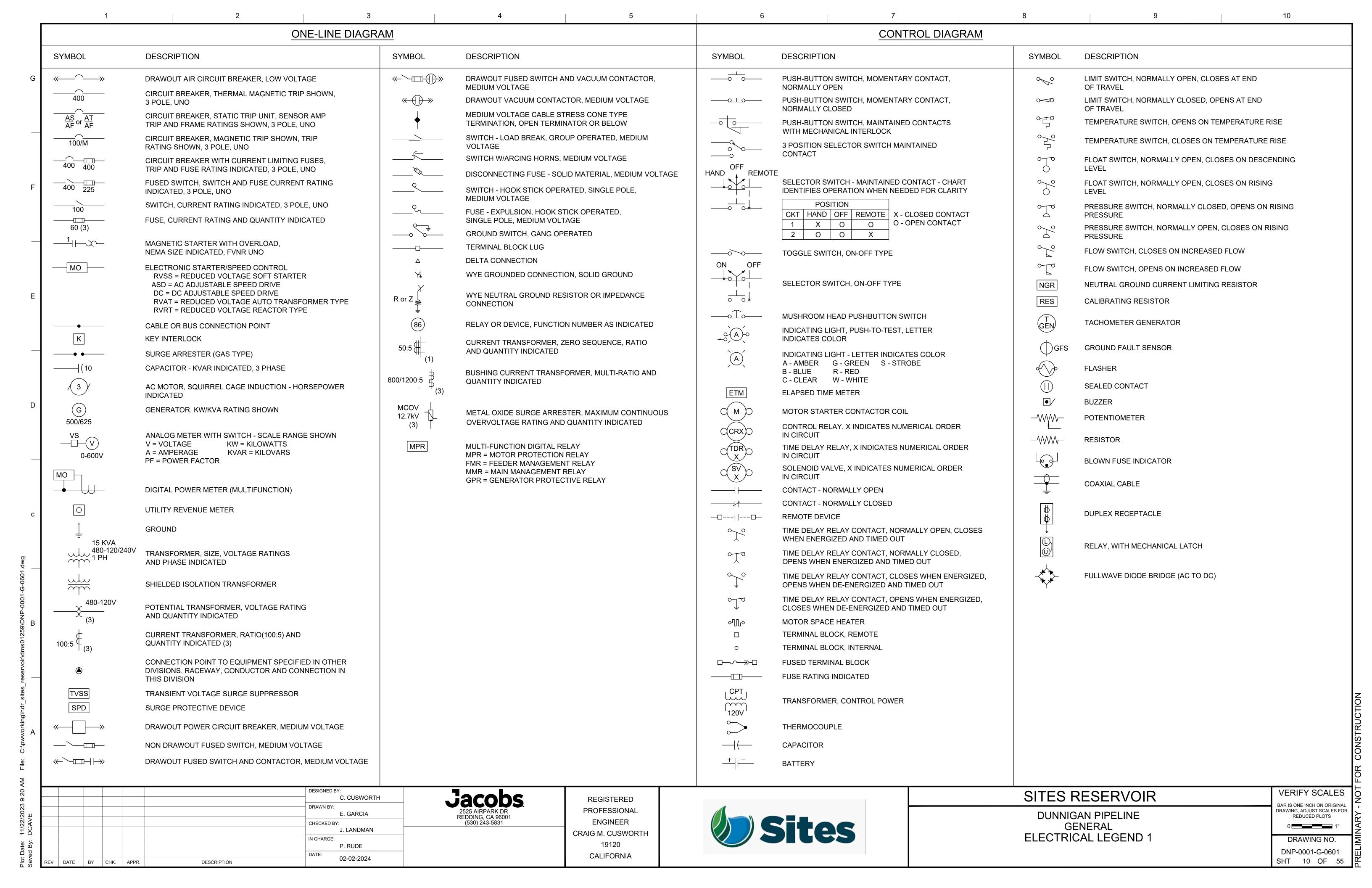
**HVAC LEGEND** 

**DUNNIGAN PIPELINE GENERAL** 

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0

> DRAWING NO. DNP-0001-G-0501 SHT

9 OF 55



_	1	2 3		4 5	6 7		8 9	10
		POWER SYSTEM	PLAN		GROUND SYSTEM PLAN	-	ABBRE	VIATIONS
	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	GROUND ROD     GROUND ROD IN TEST WELL		ABBREVIATIONS DESCRIPTION	ABBREVIATIONS DESCRIPTION
G	MCC-A	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION  MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN	XX 2	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	— G— GROUNDING CONDUCTOR, SIZE AS IN  PIGTAIL FOR CONNECTION TO EQUIPM CABINET OR FRAME  G— EQUIPMENT GROUND BUS		J, J-BOX JUNCTION BOX  K KEY INTERLOCK  L LIGHTING CONTACTOR, LOW SPEED	W WATT WHD WATTHOUR DEMAND METER WP WEATHERPROOF  XFDR TRANSPONDER
	LPXXA	PANELBOARD - SURFACE MOUNTED  PANELBOARD LETTER OR NUMBER FACILITY NUMBER LP - LOW VOLTAGE PANEL	<b>⊕ → → →</b>	240V RECEPTACLE  CONVENIENCE RECEPTACLE - QUADRUPLEX  MULTI OUTLET ASSEMBLY	N——— EQUIPMENT NEUTRAL BUS		LOS  LOCKOUT STOP PUSH BUTTON  LR  LATCHING RELAY  LT FLEX  LIQUID TIGHT FLEX  CONDUIT  LTS  LIGHTS	XFMR TRANSFORMER
F		DP - DISTRIBUTION PANEL PANELBOARD - FLUSH MOUNTED TERMINAL JUNCTION BOX	<b>⊕</b> <b>⊞</b> L20R	DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR  CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION	ABBREVIATIONS  ABBREVIATIONS DESCRIPTION ABBREVIA	ATIONS DESCRIPTION		
_	M ∕ G LPXXA	MOTOR, SQUIRREL CAGE INDUCTION  GENERATOR, VOLTAGE AND SIZE AS INDICATED  HOME RUN - DESTINATION SHOWN	20 ©  (T)	AND AMPERAGE INDICATED  THERMOSTAT  UTILITY REVENUE METERING FACILITY	A AMMETER, AMPERE, AMBER M AF AMPERE FRAME AFD ADJUSTABLE FREQUENCY MCC DRIVE MH AFF ABOVE FINISHED FLOOR MO	MAGNETIC CONTACTOR COIL MOTOR CONTROL CENTER MANHOLE, METAL HALIDE MOTOR OPERATER		
E	—— or —///— G  - — - or - ////— G  NOTE:	EXPOSED CONDUIT AND CONDUCTORS*  CONCEALED CONDUIT AND CONDUCTORS*	Φ XX-YY-ZZ	POWER POLE WITH GUY WIRE  230kV TRANSMISSION LINE STRUCTURE  ELECTRICAL BOX/VAULT IDENTIFICATION  XX:	AFG ABOVE FINISHED GRADE MS AS AMMETER SWITCH, MSC AMPERE SENSOR MT ASU AIR SUPPLY UNIT MTD AT AMPERE TRIP ATC AUTOMATIC THROWOVER N	MOTOR STARTER MFR SUPPLIED CABLE MOUNT MOUNTED  NEUTRAL		
	CONDUCTORS IN 3/4" (	OUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE ONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" OUND WIRE.  CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR.		HH - HANDHOLE  MH - MANHOLE  PB - PULLBOX  YY:	CONTROL NA ATS AUTOMATIC TRANSFER NC SWITCH NL NO BC BARE COPPER NP BCP BRANCH CIRCUIT PANEL	NON-AUTOMATIC NORMALLY CLOSED NIGHT LIGHT NORMALLY OPEN NAMEPLATE		
	[A1]————————————————————————————————————	SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.  CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.  CONDUIT DOWN		MV - MEDIUM VOLTAGE POWER P - LOW VOLTAGE POWER C - CONTROL  ZZ: IDENTIFICAITON NUMBER (e.g. 01)	BPP BRANCH POWER PANEL OC OL  C CONDUIT, CONTACTOR PB  CB CIRCUIT BREAKER  CC CONTROL CABLE PC  CKT CIRCUIT	ON CENTER OVERLOAD RELAY  PULL BOX, PUSH BUTTON SWITCH PHOTOCELL PHASE		
D		CONDUIT UP CONDUIT, STUBBED AND CAPPED CONDUIT TERMINATION AT CABLE TRAY EXISTING CONDUIT / DUCT BANK		LIGHTING SYSTEM PLAN	CPT CONTROL POWER PMR TRANSFORMER PNL CR CONTROL RELAY PS CRE CORROSION-RESISTANT PT CRS COATED RIGID STEEL PVC CONDUIT	PHASE MONITOR RELAY PANEL PRESSURE SWITCH POTENTIAL TRANSFORMER POLYVINYL CHLORIDE CONDUIT		
	——BD—— ——CE—— ——DB——	BUS DUCT - SEE SPECIFICATIONS  CONCRETE ENCASED CONDUIT  DIRECT BURIED CONDUIT	① or ① ① ① ① ① ① ② ② ② ② ② ② ② ② ② ② ② ② ② ②	LUMINAIRE, SEE SCHEDULE  LUMINAIRE, SEE SCHEDULE  LUMINAIRE WITH INTERNAL BATTERY BACKUP, SEE SCHEDULE	CT CURRENT TRANSFORMER  R DC DIRECT CURRENT RCPT DIV DIVISION REQD RM E EMPTY RS	RED RECEPTACLE REQUIRED REMOTE MULTIPLEXER RIGID STEEL CONDUIT		
С	——FO—— ——E-OVH—— XXXX	FIBER OPTIC CONDUIT EXISTING OVERHEAD ELECTRICAL LINE CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION	├ <u></u> 1 → 1 or 0 → 4 ├5 or ├5	STRIP LUMINAIRE, SEE SCHEDULE  LUMINAIRE AND POLE, SEE SCHEDULE  WALL MOUNTED LUMINAIRE, SEE SCHEDULE	EO ELECTRIC OPERATOR RT EQPT EQUIPMENT RVNR ESS EMERGENCY SHUTDOWN SWITCH RVR ETM ELAPSED TIME METER EXST EXISTING	REMOTE TELEMETRY REDUCED VOLTAGE NON-REVERSING REDUCED VOLTAGE REVERSING		
0602.dwg		CONCEALED CONDUIT ROUTING AREA  CONDUIT ROUTING AREA  CABLE TRAY	① <del>-</del>	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN  STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE  EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE,	FDR FEEDER SCCR F FUSE FLR FLOOR S/N FLUOR FLUORESCENT SPD FVNR FULL VOLTAGE SST	SURGE ARRESTOR SHORT CIRCUIT CURRENT RATING SOLID NEUTRAL SPEED STAINLESS STEEL		
9\DNP-0001-G- В	Jor HH	TRANSFORMER  GENERAL CONTROL OR WIRING DEVICE.  LETTER SYMBOLS OR ABBREVIATIONS  INDICATE TYPE OF DEVICE	XX <b>⊗</b> or <b>©</b> \$  \$ 3a or □ 2a	ARROW INDICATES EGRESS DIRECTIONAL INDICATORS,  XX = FIXTURE NUMBER, SEE SCHEDULE  SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT	FVR FULL VOLTAGE SW REVERSING SWBD  G GREEN, GROUND T GALV GALVANIZED TB	SOLENOID VALVE SWITCH SWITCHBOARD THERMOSTAT TERMINAL BOARD		
ervoir\dms0125	30 🖵	CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED  NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED.	\$ <sub>3</sub>	LUMINAIRE INDICATES CIRCUIT  WALL SWITCH: 2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER	GFCI GROUND FAULT CIRCUIT TC INTERRUPTER TD GFR GROUND FAULT RELAY GND GROUND TDR TJB H HIGH SPEED T.O.	TIME CLOSE TEMPERATURE DETECTOR RELAY TIME DELAY RELAY TERMINAL JUNCTION BOX TIME OPEN		
\ndr_sites_res	60/40 Z+ 2 X+	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		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)	HH HANDHOLE TS HID HIGH INTENSITY DISCHARGE TSP HPS HIGH PRESSURE SODIUM TST HS HAND SWITCH TYP	AUTO TRANSFORMER TEMPERATURE SWITCH TWISTED SHIELDED PAIR TWISTED SHIELDED TRIAD TYPICAL		NOIL
File: C:\pwworking\ P	100/40 \( \bigcip \) 2 \( \bigcip \) 30 \( \bigcip \) 2	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	DS LC MD	OCCUPANCY SENSOR  LIGHTING CONTACTOR  MOTION DETECTOR	IC INTERRUPTING CAPACITY I & C INSTRUMENTATION AND UVR CONTROL INCAND INCANDESCENT V INST INSTANTANEOUS VS	UNIT HEATER UNDER VOLTAGE RELAY VOLTMETER, VOLT VOLTMETER SWITCH		OR CONSTRUCTION
1/18/2024 4:17 PM DCAVE		DESIGNED BY:  C. CUSWORTH  DRAWN BY:  E. GARCIA  CHECKED BY:  J. LANDMAN	(PC)	PHOTOCELL  CODS  2525 AIRPARK DR REDDING, CA 96001 (530) 243-5831  REGISTERED PROFESSIONAL ENGINEER CRAIG M. CUSWORTH	Sites		SITES RESERVOIR  DUNNIGAN PIPELINE  GENERAL  ELECTRICAL LEGEND 2	VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS  0 1"
Plot Date: Saved By:	EV DATE BY CHK. AP	PPR. DESCRIPTION  IN CHARGE: P. RUDE  DATE: 02-02-2024		19120 CALIFORNIA			ELECTRICAL LEGEND 2	DRAWING NO. DNP-0001-G-0602 SHT 11 OF 55 CL

#### GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

	POWER CIRCUI	T CALLO	JTS	MULTICONDUCTOR POWER CABLE CIRCUIT CALLOUTS				
[P1]	[1/2"FLEX, 2#12,#12G]	[P24]	[1"C,3#8,3#14,1#10G]	[PC1]	[3/4"C,1 (3C#12,1#12G) TYPE 2]			
[P2]	[3/4"C,2#12,1#12G]	[P25]	[1"C,3#8,4#14,1#10G]	[PC2]	[3/4"C,1 (3C#10,1#10G) TYPE 2]			
[P3]	[3/4"C,3#12,1#12G]	[P26]	[1"C,3#8,5#14,1#10G]	[PC3]	[3/4"C,1 (3C#8,1#10G) TYPE 2]			
[P4]	[3/4"C,4#12,1#12G]	[P27]	[1"C,2#6, 1#10G]	[PC4]	[3/4"C,2 (3C#12,1#12G) TYPE 2]			
[P5]	[3/4"C,5#12,1#12G]	[P28]	[1"C,3#6, 1#8G]	[PC5]	[1"C,2 (3C#10,1#10G) TYPE 2]			
[P6]	[3/4"C,6#12,1#12G]	[P29]	[1"C,3#6, 2#14,1#8G]	[PC1A]	[3/4"C,1 (2C#12,1#12G) TYPE 2]			
[P7]	[3/4"C,7#12,1#12G]	[P30]	[1 1/4"C,3#6, 3#14,1#8G]	[PC2A]	[3/4"C,1 (2C#10,1#10G) TYPE 2]			
[P8]	[3/4"C,8#12,1#12G]	[P31]	[1 1/4"C,3#6, 4#14,1#8G]		[0/4 0,1 (20#10,1#100) 111 2 2]			
	[3/4"C,3#12,1#12G]							
[P9]	•	[P32]	[1 1/4"C,3#6, 5#14,1#8G]		EMPTY CONDUIT			
[P10]	[3/4"C,3#12,3#14,1#12G]	[P33]	[1 1/4"C,3#4,1#8G]	IEC 41				
[P11]	[3/4"C,3#12,4#14,1#12G]	[P34]	[1 1/4"C,3#4,3#14,1#8G]	[EC-1]	[3/4"C,WITH PULL STRING]			
[P12]	[3/4"C,3#12,5#14,1#12G]	[P35]	[1 1/4"C,3#4,5#14,1#8G]	[EC-2]	[1"C,WITH PULL STRING]			
[P13]	[3/4"C,3#12,6#14,1#12G]	[P36]	[1 1/4"C,3#3, 1#6G]	[EC-3]	[1 1/4"C,WITH PULL STRING]			
[P14]	[1"C,3#12,7#14,1#12G]	[P37]	[1 1/4"C,3#3, 3#14,1#6G]	[EC-4]	[1 1/2"C,WITH PULL STRING]			
[P15]	[3/4"C,2#10,1#10G]	[P38]	[1 1/4"C,3#2, 1#6G]	[EC-5]	[2"C,WITH PULL STRING]			
[P16]	[3/4"C,3#10,1#10G]	[P39]	[1 1/2"C,3#1, 1#6G]	[EC-6]	[3"C,WITH PULL STRING]			
[P17]	[3/4"C,3#10,2#14,1#10G]	[P40]	[2"C,3#1, 3#14,1#6G]	[EC-7]	[4"C,WITH PULL STRING]			
[P18]	[3/4"C,3#10,3#14,1#10G]	[P41]	[2"C,3#2/0, 1#4G]	[EC-8]	[5"C,WITH PULL STRING]			
[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]							
ANAL	LOG CIRCUIT CALLOUTS	CONTR	OL CIRCUIT CALLOUTS	MULTICON	IDUCTOR CONTROL CABLE CIRCUIT CALLOUTS			
[A1]	[3/4"C,1 TYPE 3]	[C1]	[3/4"C,MSC]	[CC3]	[3/4"C,1-3C TYPE 1]			
[ייין	[0, . 0, 0]	1 1011		[000]	[5/4 6,1-36 111 6 1]			
	[3/4"C,2 TYPE 3]	[C1] [C2]			[3/4"C,1-5C TYPE 1]			
[A2]		[C2]	[3/4"C,2#14,1#14G]	[CC5]				
[A2] [A3]	[3/4"C,2 TYPE 3]	[C2] [C3]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G]	[CC5] [CC7]	[3/4"C,1-5C TYPE 1]			
[A2] [A3] [A4]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3]	[C2] [C3] [C4]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G]	[CC5] [CC7] [CC9]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1]			
[A2] [A3] [A4] [A5]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3]	[C2] [C3] [C4] [C5]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G]	[CC5] [CC7] [CC9] [CC12]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1]			
[A2] [A3] [A4] [A5] [A6]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3]	[C2] [C3] [C4] [C5] [C6]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [1"C,3 TYPE 4] [1"C,3 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,15#14,1#14G] [1"C,17#14,1#14G] [1"C,17#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,18#14,1#14G] [1"C,18#14,1#14G] [1"C,19#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,5 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C19]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,19#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G] [1"C,22#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] [A23]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,16#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			
[A2] [A3] [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[3/4"C,2 TYPE 3] [1"C,3 TYPE 3] [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4]	[C2] [C3] [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,2#14,1#14G] [3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G] [1"C,22#14,1#14G]	[CC5] [CC7] [CC9] [CC12] [CC19] [CC25] [CC37]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1] [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1]			

#### NOTES:

- 1. FOR CABLE TYPES, SEE SPECIFICATIONS.
- 2. 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.
- 3. SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- 4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED. MINIMUM CONDUIT SIZE SHALL BE 1".
- 5. FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:

						DESIGNED B	Y: C. CUSWORTH	
						DRAWN BY:	E. GARCIA	
						CHECKED BY		
						IN CHARGE:	P. RUDE	
REV	DATE	BY	CHK.	APPR.	DESCRIPTION	DATE:	02-02-2024	

19120 **CALIFORNIA** 



# SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL ELECTRICAL LEGEND 3**  VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

DRAWING NO. DNP-0001-G-0603 SHT 12 OF 55

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