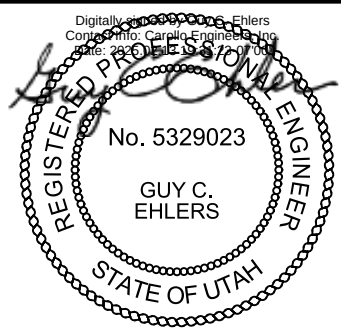
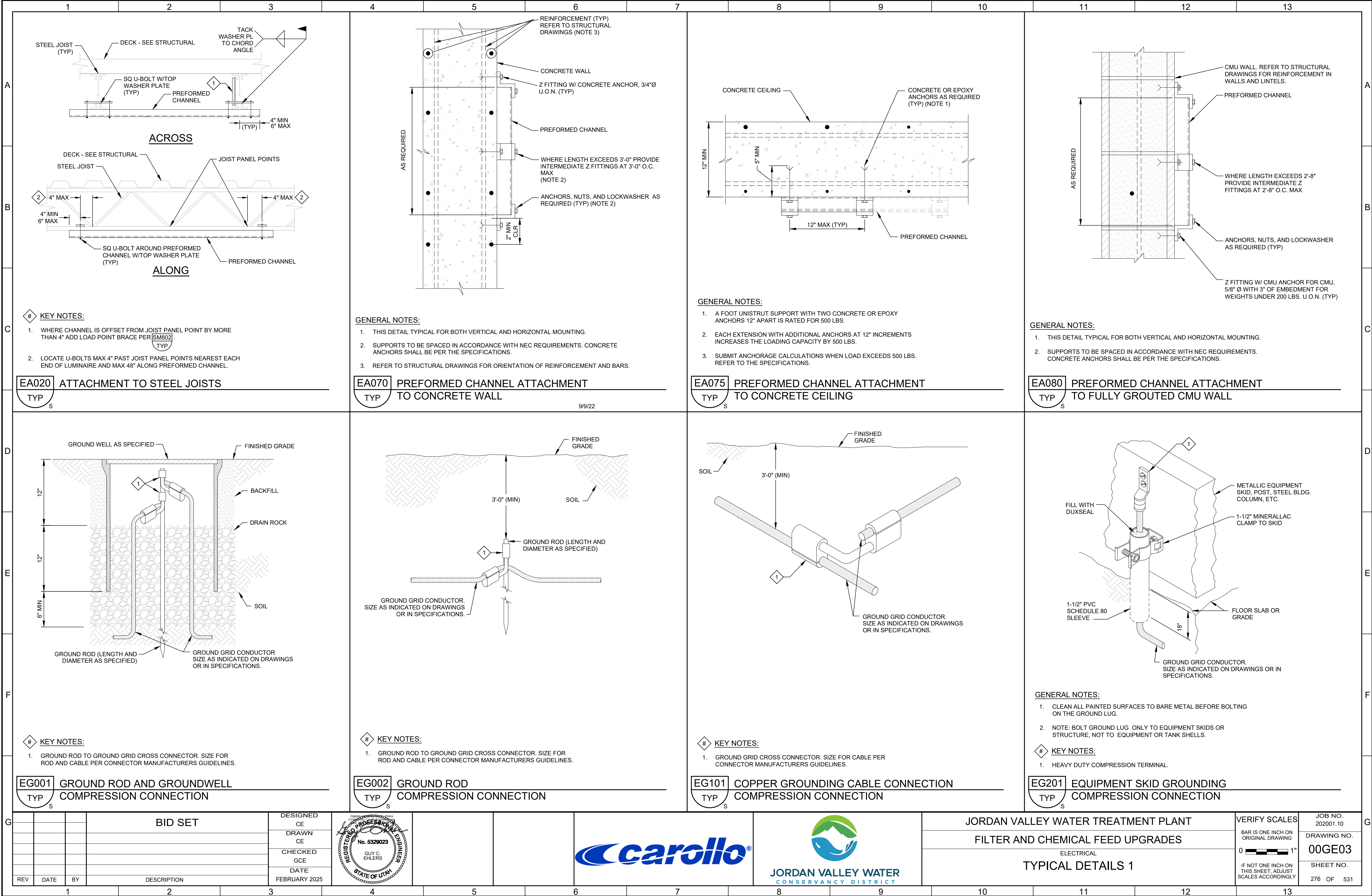


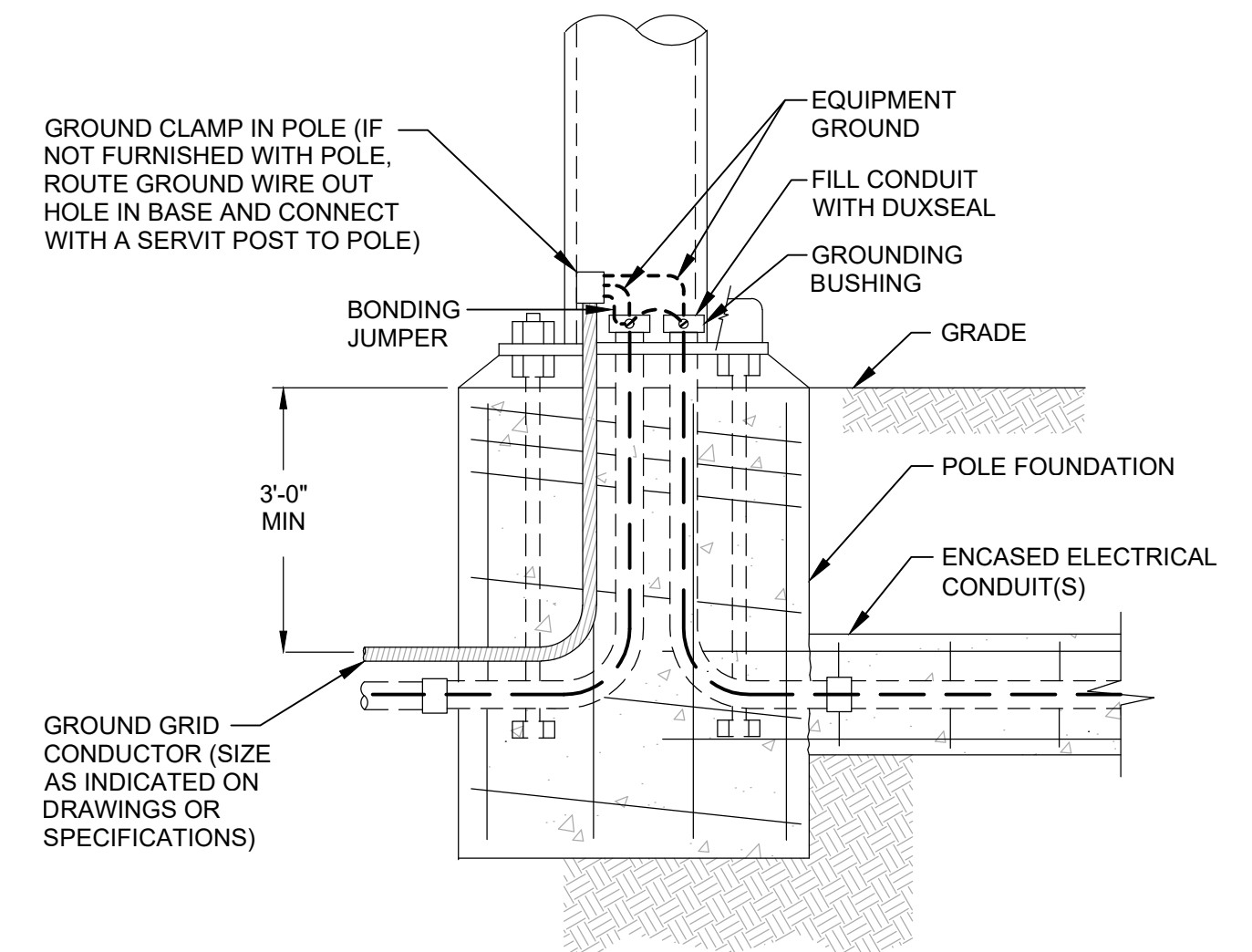
ELECTRICAL PLAN SYMBOLS													ELECTRICAL ONE-LINE SYMBOLS																																																																																										
IDENTIFICATION SYMBOLS													SWITCHES/RECEPTACLES													RACEWAY													MEDIUM VOLTAGE													LOW VOLTAGE													MISCELLANEOUS																																						
EQUIP # EQUIPMENT AND INSTRUMENT IDENTIFICATION EQUIPMENT/INSTRUMENT LOCATOR LUMINAIRE IDENTIFICATION a = CIRCUIT DESIGNATION b = DEVICE SWITCHED FROM c = MOUNTING HEIGHT IN FEET TO BOTTOM OF FIXTURE X = LUMINAIRE TYPE, REFER TO THE LUMINAIRE SCHEDULE CONDUIT IDENTIFICATION XXXX = CONDUIT NUMBER, REFER TO CONDUIT SCHEDULE UNLESS OTHERWISE NOTED, GROUPED CONDUITS ARE LABELED LEFT TO RIGHT OR TOP TO BOTTOM. INDICATES KEYNOTE X (PERTAINS ONLY TO SHEET WHERE NOTE IS FOUND) DISCONNECT SWITCH A = TYPE, REFER TO DISCONNECT SCHEDULE CAMERA LUMINAIRES LINEAR FIXTURE 2' X 2' LAY-IN TROFFER 2' X 4' LAY-IN TROFFER LUMINAIRE POLE MOUNTED GO/NO-GO PANEL - STROBE AND HORN R = RED LIGHT G = GREEN LIGHT H = HORN GO/NO-GO PANEL - SOLID GO/NO-GO PANEL - STROBE LUMINAIRE, EMERGENCY BATTERY-POWERED LUMINAIRE, EMERGENCY/EXIT BATTERY-POWERED LUMINAIRE, EMERGENCY BATTERY-POWERED REMOTE LUMINAIRE, SURFACE OR PENDANT MOUNTED LUMINAIRE, WALL MOUNTED LUMINAIRE, FLOOD/SPOT LUMINAIRE, EXIT ONE OR TWO FACES AS INDICATED. ARROW POINTS IN DIRECTION OF EGRESS.													SINGLE POLE SWITCH a = CIRCUIT DESIGNATION b = DEVICE SWITCHED DESIGNATION c = TYPE 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 3P = THREE POSITION SWITCH 4 = FOUR-WAY SWITCH K = KEY OPERATED SWITCH F = SWITCH AND FUSE/STAT HOLDER P = SWITCH AND PILOT LIGHT T = THERMOSTAT D = DIMMER SWITCH L = LOW VOLTAGE LIGHT SWITCH M = MANUAL MOTOR STARTER N = NETWORKED SINGLE OR MULTIPLE SWITCH LOCATIONS REFER TO ABBREVIATIONS LEGEND FOR ALL OTHER DESIGNATIONS. OCCUPANCY SENSOR *REFERENCE LIGHTING CONTROL COMPONENT SCHEDULE a = CIRCUIT DESIGNATION b = DEVICE SWITCHED DESIGNATION c = MOUNTING HEIGHT IN FEET TO BOTTOM OF SENSOR PHOTOCELL SWITCH AND SINGLE RECEPTACLE a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION DUPLEX RECEPTACLE QUADRUPLUX RECEPTACLE IN FLOOR DUPLEX RECEPTACLE IN FLOOR QUADRUPLUX RECEPTACLE DUPLEX RECEPTACLE w/SPLIT WIRE DEDICATED RECEPTACLE SPECIAL PURPOSE RECEPTACLE WELDING RECEPTACLE a = CIRCUIT DESIGNATION b = DISCONNECT TYPE TWIST LOCK RECEPTACLE a = AMP RATING TELEPHONE OUTLET a = CIRCUIT DESIGNATION b = MOUNTING HEIGHT DATA COMMUNICATIONS OUTLET a = CIRCUIT DESIGNATION b = MOUNTING HEIGHT FIRE ALARM SMOKE DETECTOR a = TYPE I = IONIZATION P = PHOTOELECTRIC d = DUCT DETECTOR FIRE ALARM CONTROL PANEL FIRE ALARM PULL STATION FIRE ALARM HORN/STROBE COMBINATION FIRE ALARM STROBE FIRE SPRINKLER F = FLOW SWITCH T = TAMPER SWITCH													EXPOSED CONDUIT BREAK AND CONTINUATION IN CONDUIT RUN EXPOSED CONDUIT HIDDEN BEHIND WALLS, FLOORS OR OTHER STRUCTURES UNDERGROUND CONDUIT, DIRECT BURIED OR IN DUCT BANK CONDUIT IN SLAB CONDUIT VERTICAL CHANGE IN DIRECTION CONDUIT CAP JUNCTION BOX CONDUIT SEAL CONDUIT TEE DUCT BANK APPROXIMATE DIMENSIONS SHOWN ON DUCT BANK SECTIONS CONDUIT SIZE AND CONDUCTORS INDIVIDUAL CONDUCTORS W"C-(3-X (Ø), 1-Y (N) & 1-Z (G)) W"C (WHERE INDICATED): W = CONDUIT TRADE SIZE 3-X (Ø): 3 = QUANTITY X = SIZE OF CONDUCTORS (Ø) = DESIGNATES PHASE CONDUCTORS 1-Y (N) (WHERE INDICATED): 1 = QUANTITY Y = SIZE OF CONDUCTORS (N) = DESIGNATES NEUTRAL CONDUCTORS 1-Z (G) (WHERE INDICATED): 1 = QUANTITY Z = SIZE OF CONDUCTORS (G) = DESIGNATES GROUND CONDUCTORS U{3-X (Ø) & 1-X (G)} U = NUMBER OF PARALLEL RUNS VFD CONDUCTORS U{[N/C-X (Ø) & INTEGRAL (G)]:VFD} U = NUMBER OF PARALLEL RUNS N/C = NUMBER OF PHASE CONDUCTORS IN CABLE X = SIZE OF CONDUCTORS VFD = VFD CABLE MULTI CONDUCTOR CABLES K/2/C#16S K (WHERE INDICATED) = NUMBER OF PAIRS 2/C#16S = TWO CONDUCTOR, 16 GAUGE, TWISTED SHIELDED PAIR K/3/C#16S K (WHERE INDICATED) = NUMBER OF TRIPLETS 3/C#16S = THREE CONDUCTOR, 16 GAUGE, TWISTED SHIELDED TRIPLETS U{[N/C-X (Ø) & INTEGRAL (G)]:MC} U = NUMBER OF PARALLEL RUNS MC = MULTICONDUCTOR CABLE N/C = NUMBER OF PHASE CONDUCTORS IN THE CABLE X = SIZE OF CONDUCTORS FIBER OPTIC CABLES FO/N N = NUMBER OF INDIVIDUAL FIBERS GROUNDING UNDERGROUND GROUND CABLE #4/0 SDBC UNLESS OTHERWISE NOTED GROUND ROD GROUND ROD AND GROUND WELL													CIRCUIT BREAKER, MEDIUM VOLTAGE a = CIRCUIT BREAKER NUMBER b = FRAME SIZE ANSI RELAY DEVICE a = ANSI DEVICE FUNCTION b = QUANTITY MEDIUM VOLTAGE DISCONNECT SWITCH NON-FUSED CUT OUT MEDIUM VOLTAGE DISCONNECTING FUSE SINGLE FUSE CUT OUT MEDIUM VOLTAGE DISCONNECTING FUSE DOUBLE FUSE CUT OUT MEDIUM VOLTAGE SINGLE FUSE MEDIUM VOLTAGE DOUBLE FUSE MEDIUM VOLTAGE LIVE FRONT TERMINATOR MEDIUM VOLTAGE ELBOW MEDIUM VOLTAGE TEE MEDIUM VOLTAGE CONTACTOR MEDIUM VOLTAGE STARTER MOV-ELBOW ARRESTER													LOW VOLTAGE CIRCUIT BREAKER a = TYPE MCP = MOTOR CIRCUIT PROTECTOR TM = THERMAL MAGNETIC SS = SOLID STATE b = FRAME SIZE (MANUFACTURER TO DETERMINE FRAME SIZE UNLESS INDICATED) c = NUMBER OF POLES d = TRIP SETTING (AT = AMP TRIP) (AC = MCP CONTINUOUS RATING) e = DESIGNATION f = INTERRUPTING RATING LOW VOLTAGE CIRCUIT BREAKER AUXILIARY OPERATOR * = S = SHUNT TRIP = G = GROUND FAULT INTERRUPTER = V = SOLENOID KEY RELEASE DISCONNECT SWITCH A = TYPE, REFER TO DISCONNECT SCHEDULE FUSED DISCONNECT SWITCH B = TYPE, REFER TO DISCONNECT SCHEDULE b = FUSE RATING FUSE COMBINATION STARTER WITH CONTROL POWER TRANSFORMER a = CIRCUIT BREAKER DISCONNECT, TYPE AS NOTED b = STARTER TYPE REFER TO THE SPECIFICATIONS FOR STARTER DEFINITIONS. c = NEMA STARTER SIZE d = OVERLOAD MOTOR STARTER/DRIVES: a = DEVICE TYPE VFD-6 = 6-PULSE VFD VFD-18 = 18-PULSE VFD VFD-RH = REDUCED HARMONIC VFD (18-PULSE OR ACTIVE FRONT END AS DEFINED IN THE SPECIFICATIONS) RVSS = REDUCED VOLTAGE SOLID STATE STARTER RVAT = REDUCED VOLTAGE AUTO TRANSFORMER a/B = DEVICE WITH BYPASS STARTER, REFER TO THE SPECIFICATIONS b = INPUT OPTIONS LL = LINE REACTOR PHF = PASSIVE HARMONIC FILTER c = OUTPUT OPTIONS LR = LOAD REACTOR DV/DT = Dv/dt FILTER SWF = SINE WAVE FILTER EQUIPMENT ENCLOSURE													MOTOR HP = HORSEPOWER RATING FULL LOAD AMPS AS NOTED PACKAGED EQUIPMENT LOAD RATING AS INDICATED a = RATED LOAD b = UNIT(HP, KW, KVA) AS INDICATED TRANSFORMER a = DEVICE I.D. b = KVA RATING c = NUMBER OF PHASES d = PRIMARY VOLTAGE e = SECONDARY VOLTAGE f,g = CONNECTION TYPE SYMBOL h = IMPEDANCE GROUNDING WYE CONNECTION DELTA CONNECTION ENGINE-GENERATOR RATINGS AS INDICATED ON THE DRAWINGS a = KVA/KW b = VOLTAGE/CONNECTION c = PHASE d = WIRE e = PF CURRENT TRANSFORMER WITH SHORTING TERMINAL BLOCK a = QUANTITY b = RATIO POTENTIAL TRANSFORMER a = QUANTITY b = RATIO c,d = CONNECTION TYPE SYMBOL SOLID STATE MULTIFUNCTION METER AMPERE TEST POINT VOLTAGE TEST POINT UTILITY METER LIGHTNING ARRESTER SURGE PROTECTIVE DEVICE DRAWOUT CONNECTION GROUND CAPACITOR BATTERY KIRK KEY INTERLOCK LOAD BANK																																						
BID SET													DESIGNED CE DRAWN CE CHECKED GCE DATE FEBRUARY 2025																																																				JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL FEED UPGRADES ELECTRICAL ELECTRICAL LEGEND													VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY													JOB NO. 202001.10 DRAWING NO. 00GE01 SHEET NO. 274 OF 531												

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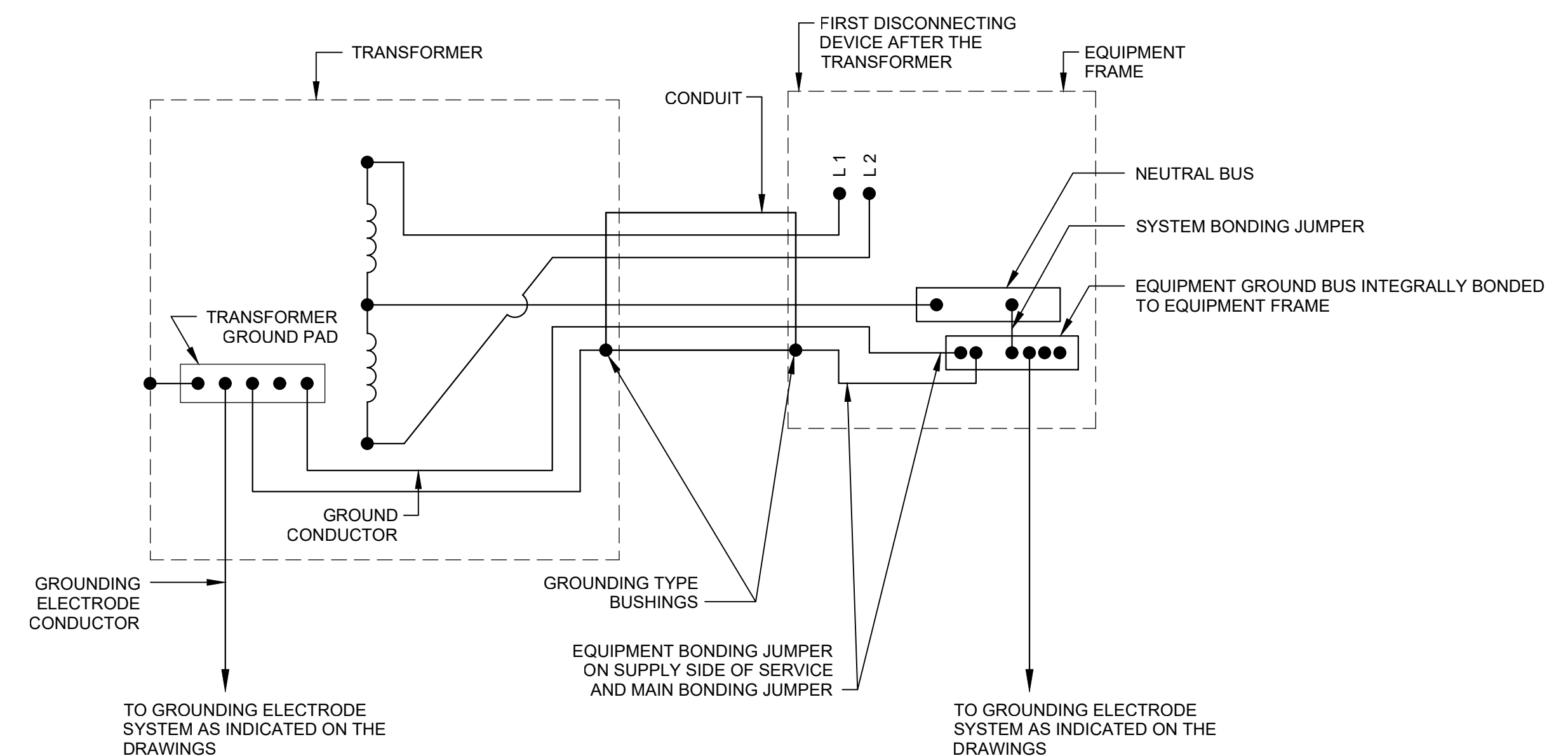
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EG402 LIGHT POLE GROUNDING
TYP INTERIOR

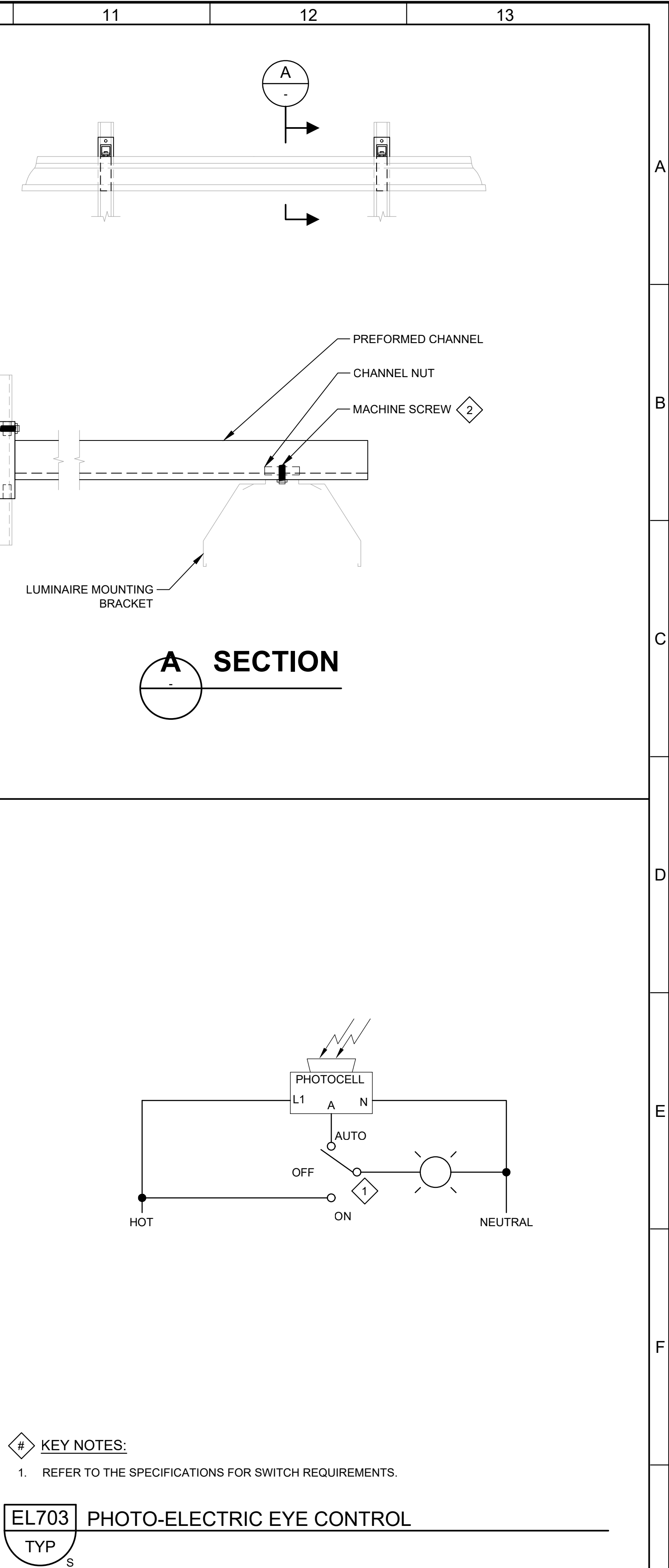
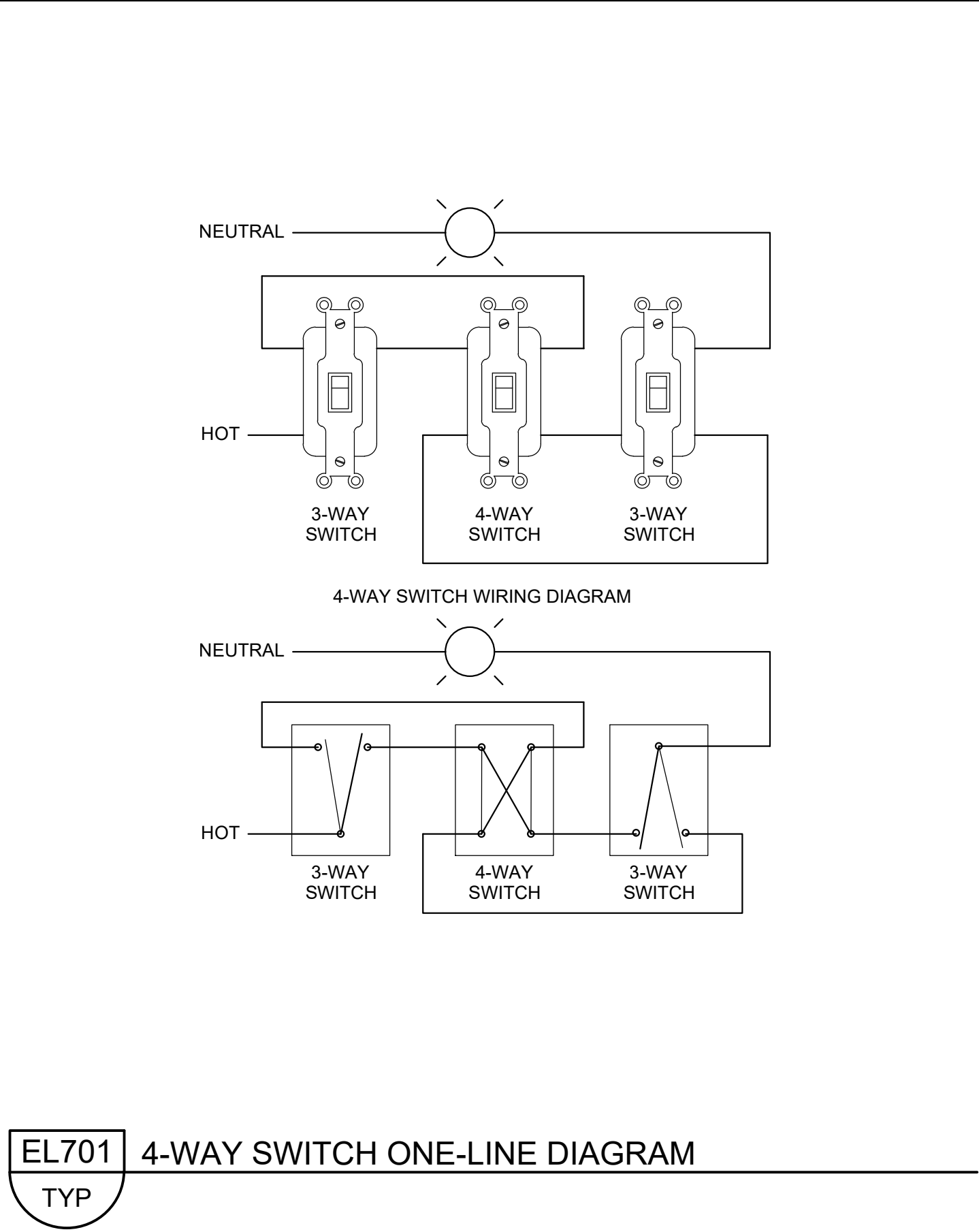
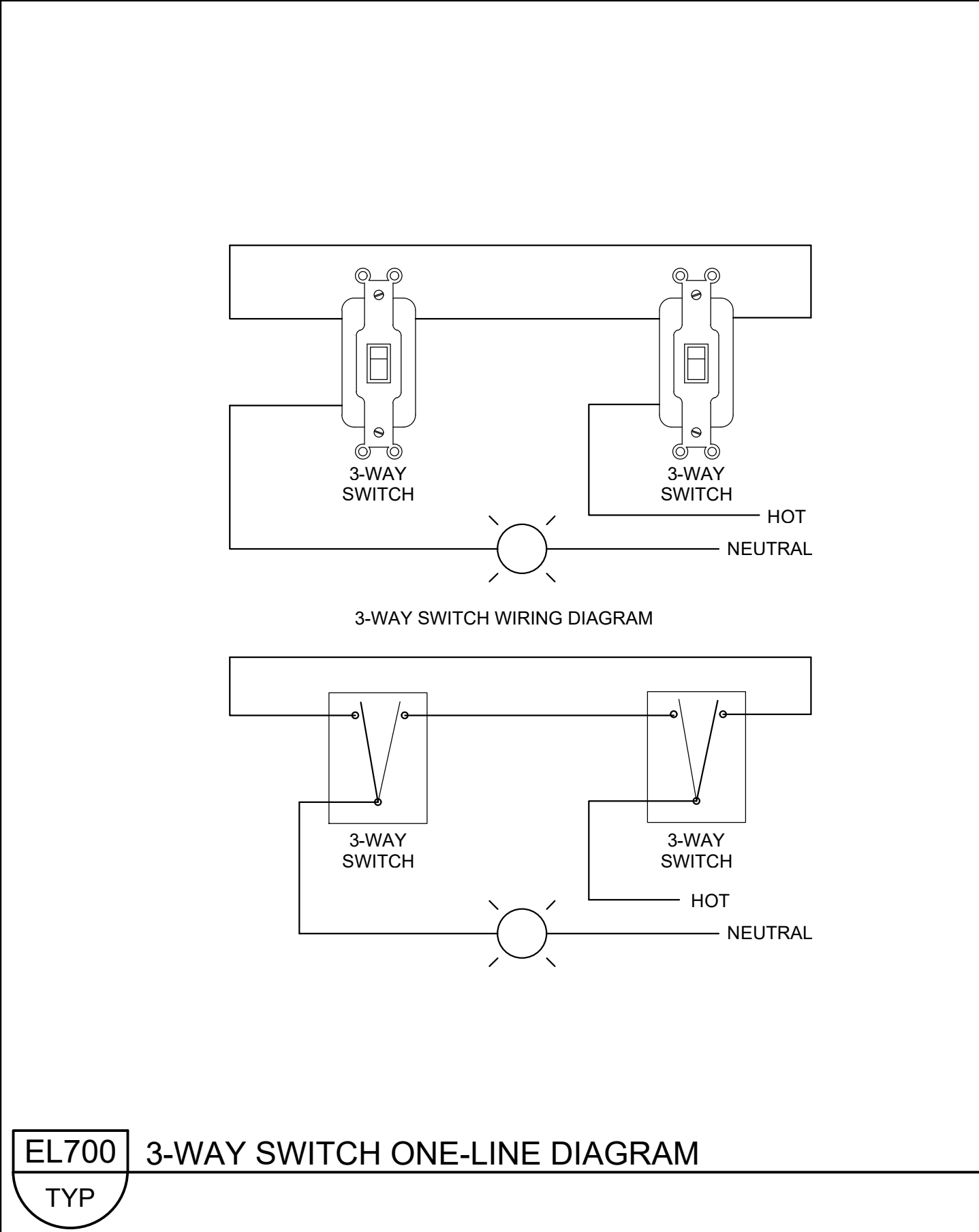
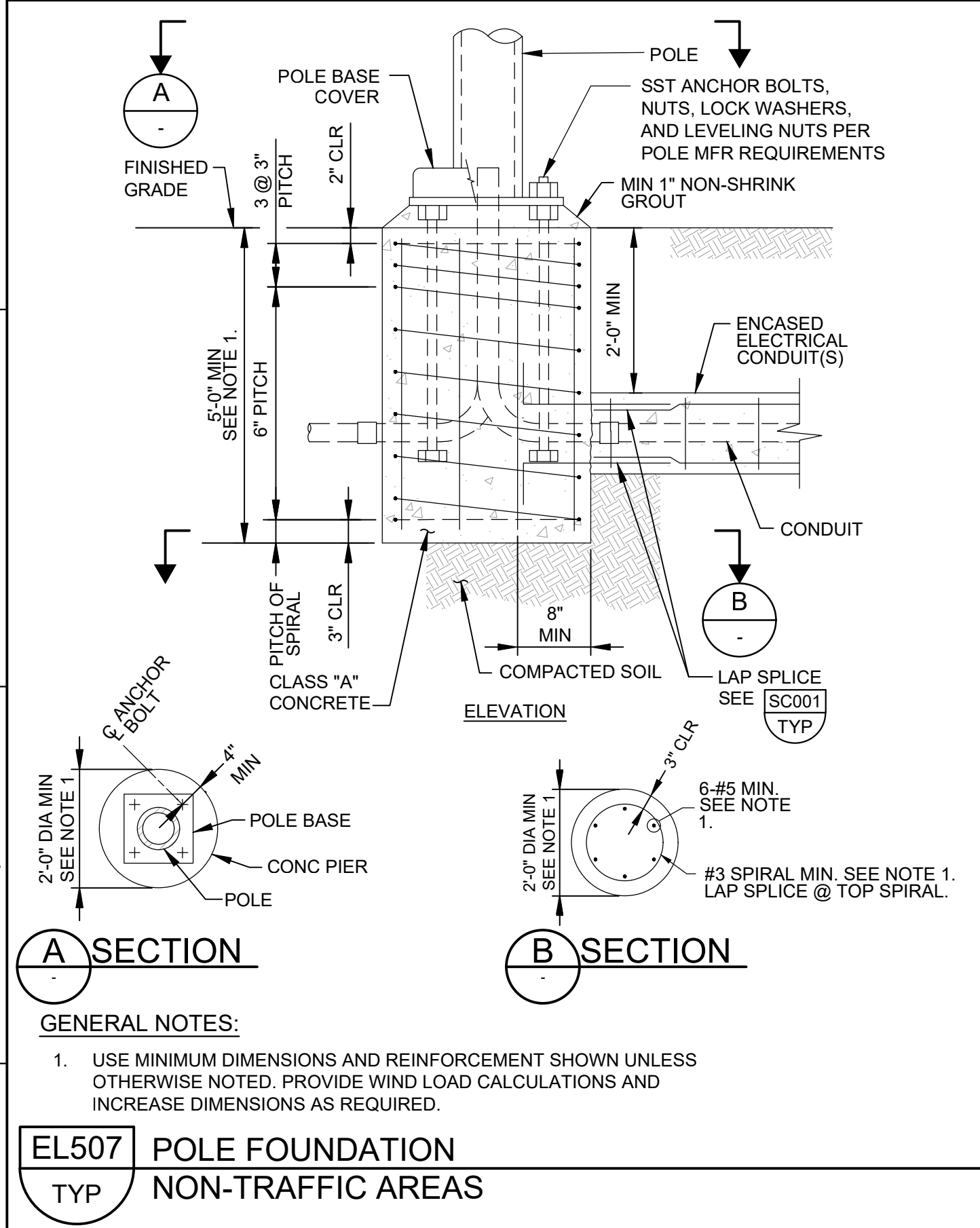


EG512	1-PHASE TRANSFORMER (NON-UTILITY)
TYP	GROUNDING DETAIL

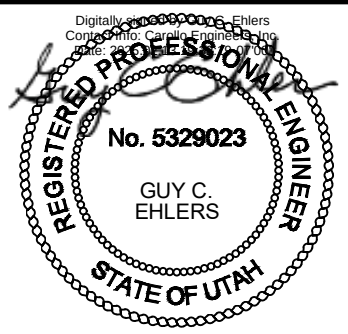
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DATE FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
 FILTER AND CHEMICAL FEED UPGRADES
 ELECTRICAL
 TYPICAL DETAILS 2

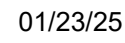
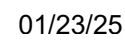


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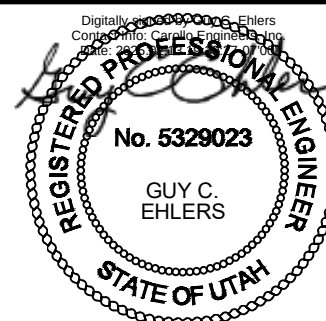


JORDAN VALLEY WATER TREATMENT PLANT
 FILTER AND CHEMICAL FEED UPGRADES
 ELECTRICAL
 TYPICAL DETAILS 3

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202001.10	G
	DRAWING NO. 00GE05	
	SHEET NO. 278 OF 531	

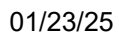


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DATE
FEBRUARY 2025



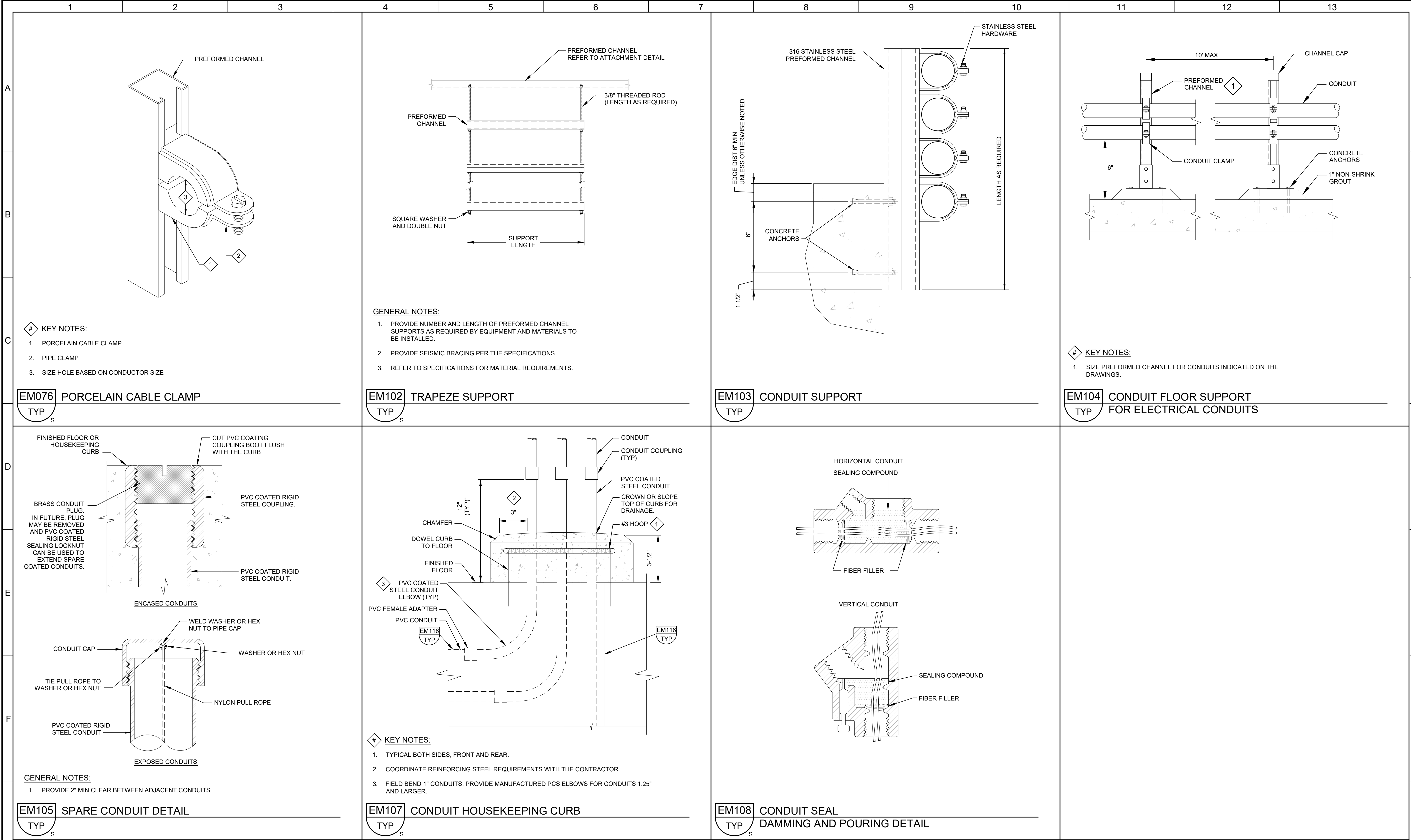
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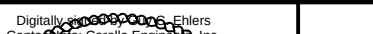
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					CHECKED GCE						ELECTRICAL	0  1"	00GE07
					DATE FEBRUARY 2025						TYPICAL DETAILS 5	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
	REV	DATE	BY	DESCRIPTION									280 OF 531

Plot Date: 9/12/2022 7:29:07 AM

A

B

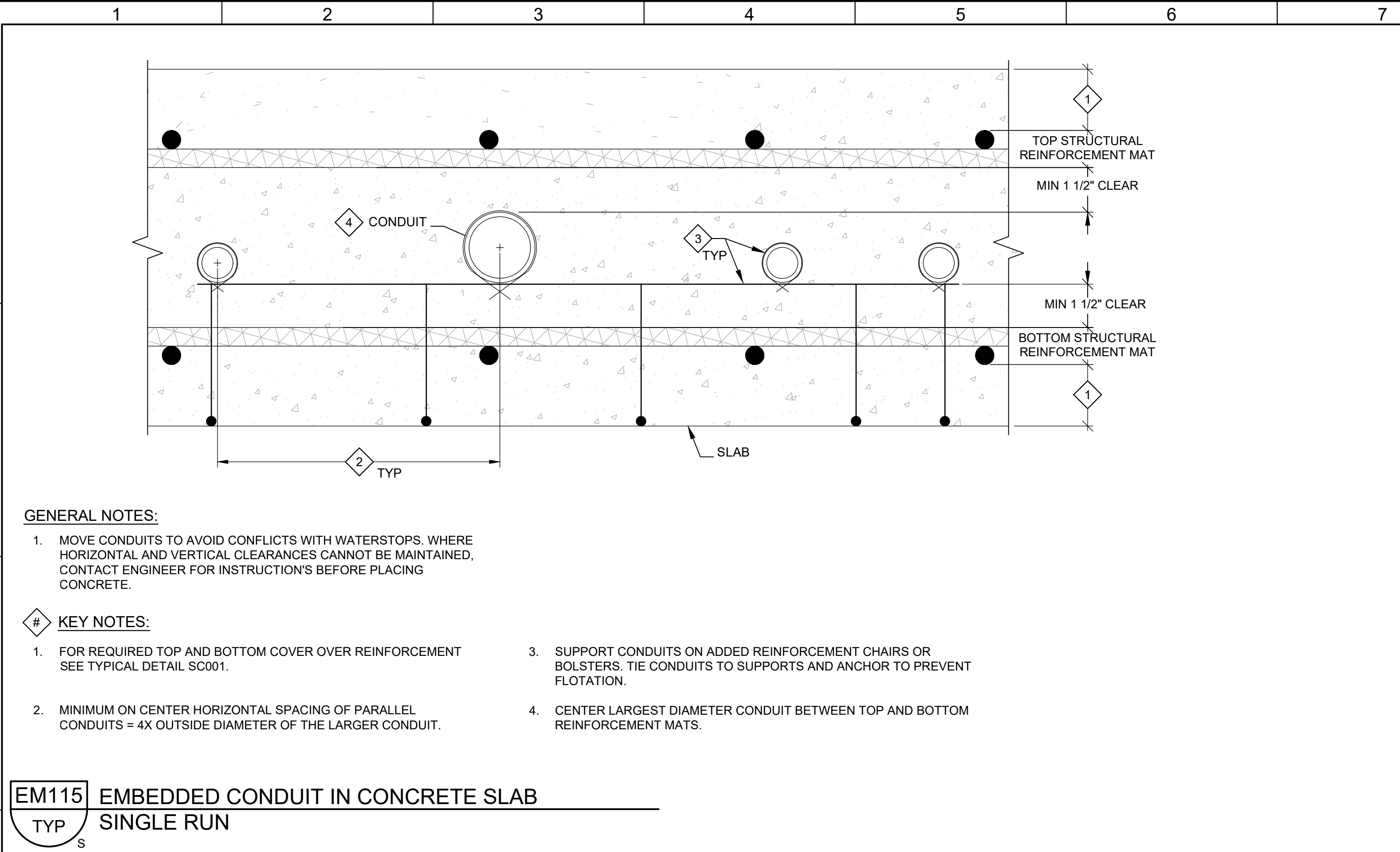
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D

E

F

G



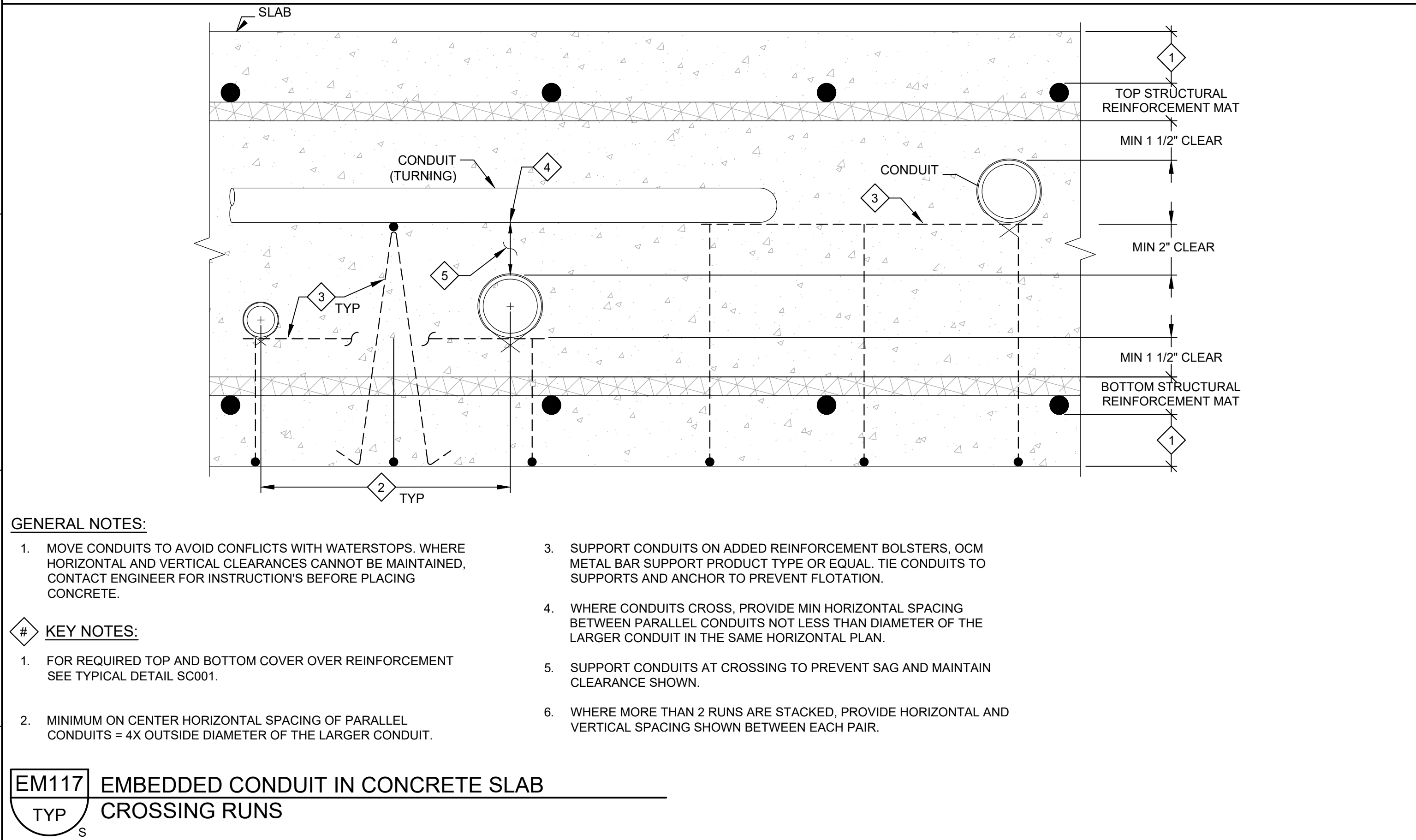
GENERAL NOTES:

1. MOVE CONDUITS TO AVOID CONFLICTS WITH WATERSTOPS. WHERE HORIZONTAL AND VERTICAL CLEARANCES CANNOT BE MAINTAINED, CONTACT ENGINEER FOR INSTRUCTION'S BEFORE PLACING CONCRETE.

KEY NOTES:

1. FOR REQUIRED TOP AND BOTTOM COVER OVER REINFORCEMENT SEE TYPICAL DETAIL SC001.
2. MINIMUM ON CENTER HORIZONTAL SPACING OF PARALLEL CONDUITS = 4X OUTSIDE DIAMETER OF THE LARGER CONDUIT.
3. SUPPORT CONDUITS ON ADDED REINFORCEMENT CHAIRS OR BOLSTERS. TIE CONDUITS TO SUPPORTS AND ANCHOR TO PREVENT FLOTATION.
4. CENTER LARGEST DIAMETER CONDUIT BETWEEN TOP AND BOTTOM REINFORCEMENT MATS.

EM115 EMBEDDED CONDUIT IN CONCRETE SLAB
TYP SINGLE RUN



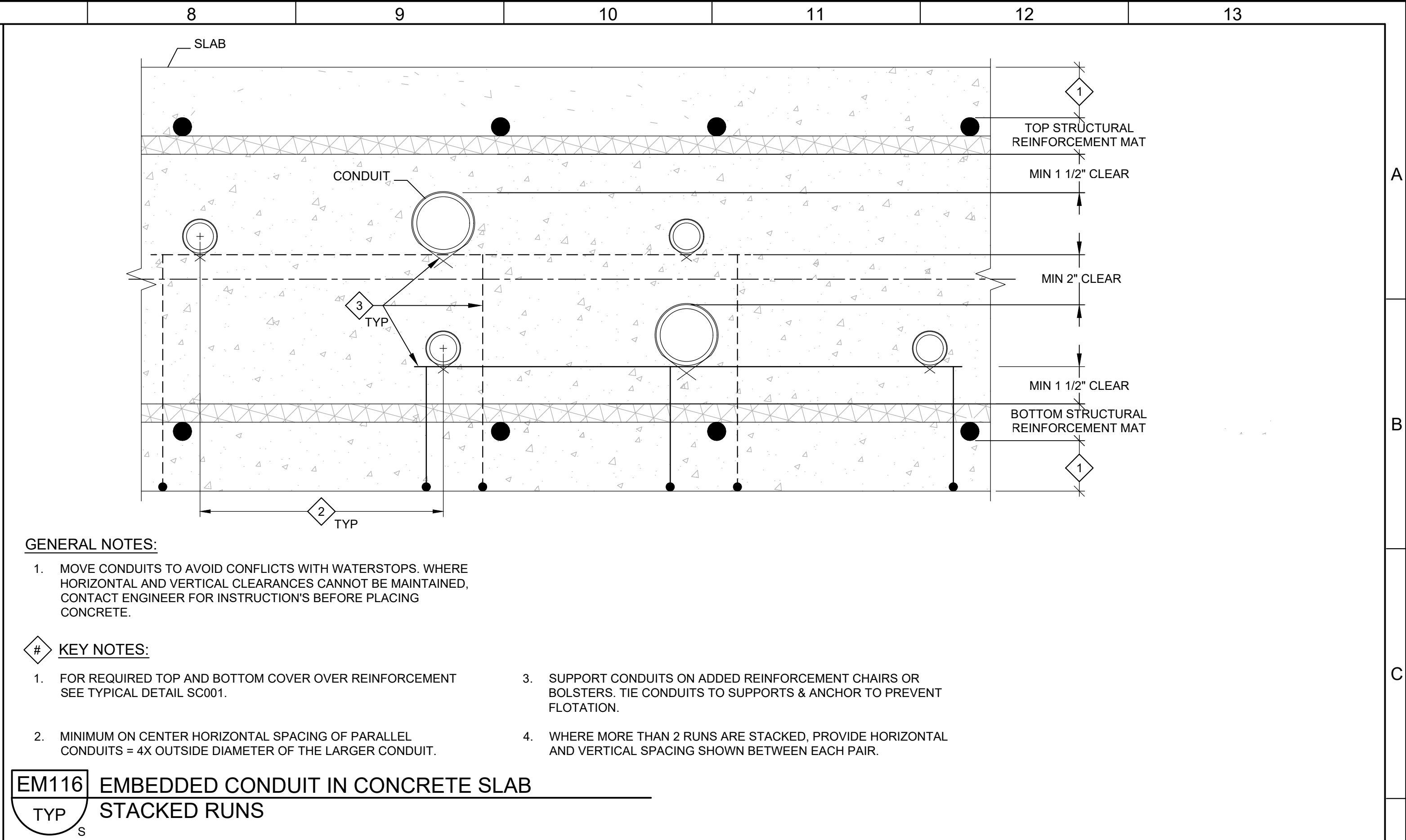
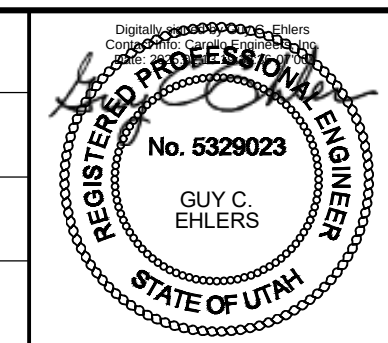
GENERAL NOTES:

1. MOVE CONDUITS TO AVOID CONFLICTS WITH WATERSTOPS. WHERE HORIZONTAL AND VERTICAL CLEARANCES CANNOT BE MAINTAINED, CONTACT ENGINEER FOR INSTRUCTION'S BEFORE PLACING CONCRETE.
2. MINIMUM ON CENTER HORIZONTAL SPACING OF PARALLEL CONDUITS = 4X OUTSIDE DIAMETER OF THE LARGER CONDUIT.
3. SUPPORT CONDUITS ON ADDED REINFORCEMENT BOLSTERS, OCM METAL BAR SUPPORT PRODUCT TYPE OR EQUAL. TIE CONDUITS TO SUPPORTS AND ANCHOR TO PREVENT FLOTATION.
4. WHERE CONDUITS CROSS, PROVIDE MIN HORIZONTAL SPACING BETWEEN PARALLEL CONDUITS NOT LESS THAN DIAMETER OF THE LARGER CONDUIT IN THE SAME HORIZONTAL PLAN.
5. SUPPORT CONDUITS AT CROSSING TO PREVENT SAG AND MAINTAIN CLEARANCE SHOWN.
6. WHERE MORE THAN 2 RUNS ARE STACKED, PROVIDE HORIZONTAL AND VERTICAL SPACING SHOWN BETWEEN EACH PAIR.

EM117 EMBEDDED CONDUIT IN CONCRETE SLAB
TYP CROSSING RUNS

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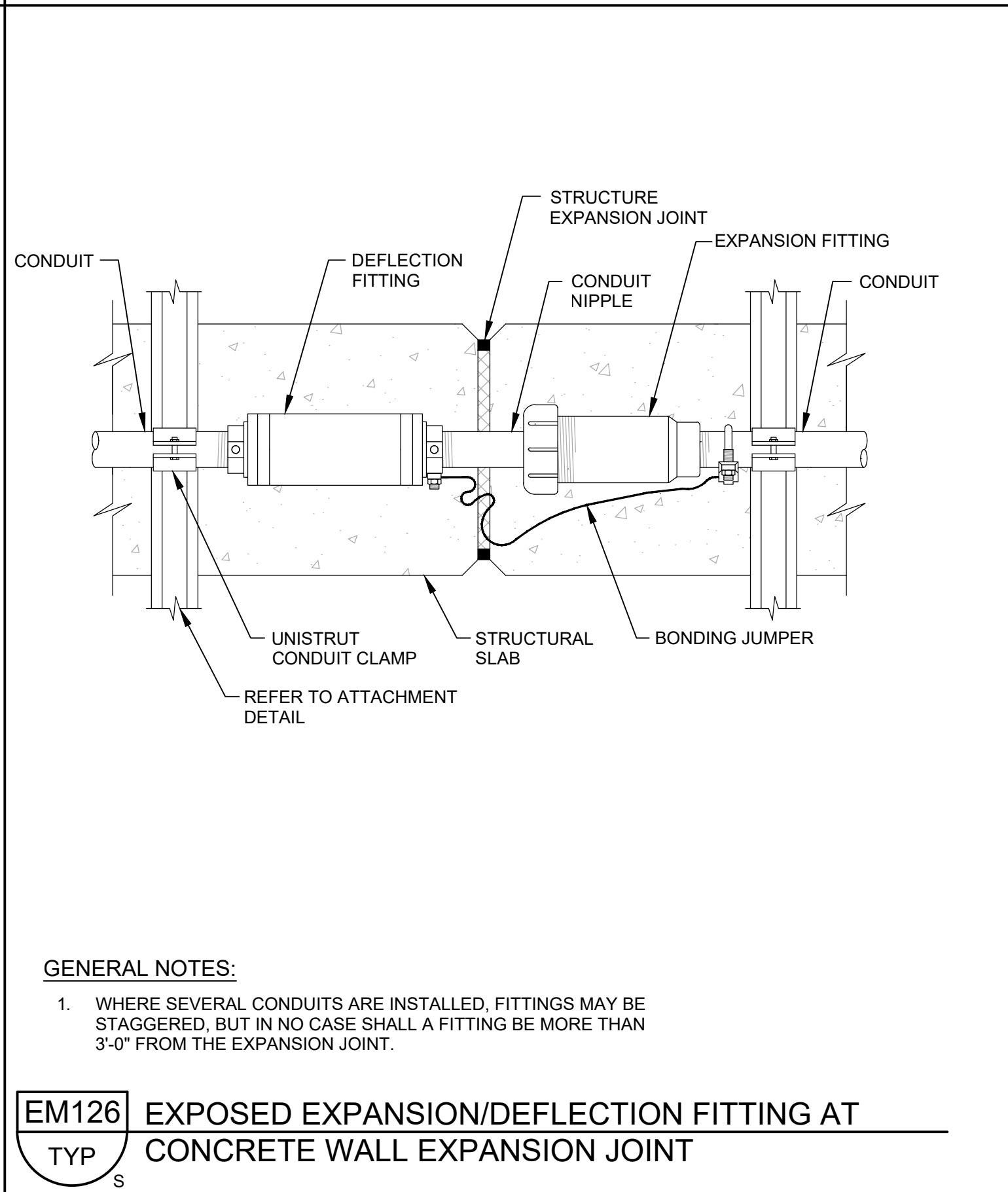
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DATE FEBRUARY 2025



GENERAL NOTES:

1. MOVE CONDUITS TO AVOID CONFLICTS WITH WATERSTOPS. WHERE HORIZONTAL AND VERTICAL CLEARANCES CANNOT BE MAINTAINED, CONTACT ENGINEER FOR INSTRUCTION'S BEFORE PLACING CONCRETE.
2. MINIMUM ON CENTER HORIZONTAL SPACING OF PARALLEL CONDUITS = 4X OUTSIDE DIAMETER OF THE LARGER CONDUIT.
3. SUPPORT CONDUITS ON ADDED REINFORCEMENT CHAIRS OR BOLSTERS. TIE CONDUITS TO SUPPORTS & ANCHOR TO PREVENT FLOTATION.
4. WHERE MORE THAN 2 RUNS ARE STACKED, PROVIDE HORIZONTAL AND VERTICAL SPACING SHOWN BETWEEN EACH PAIR.

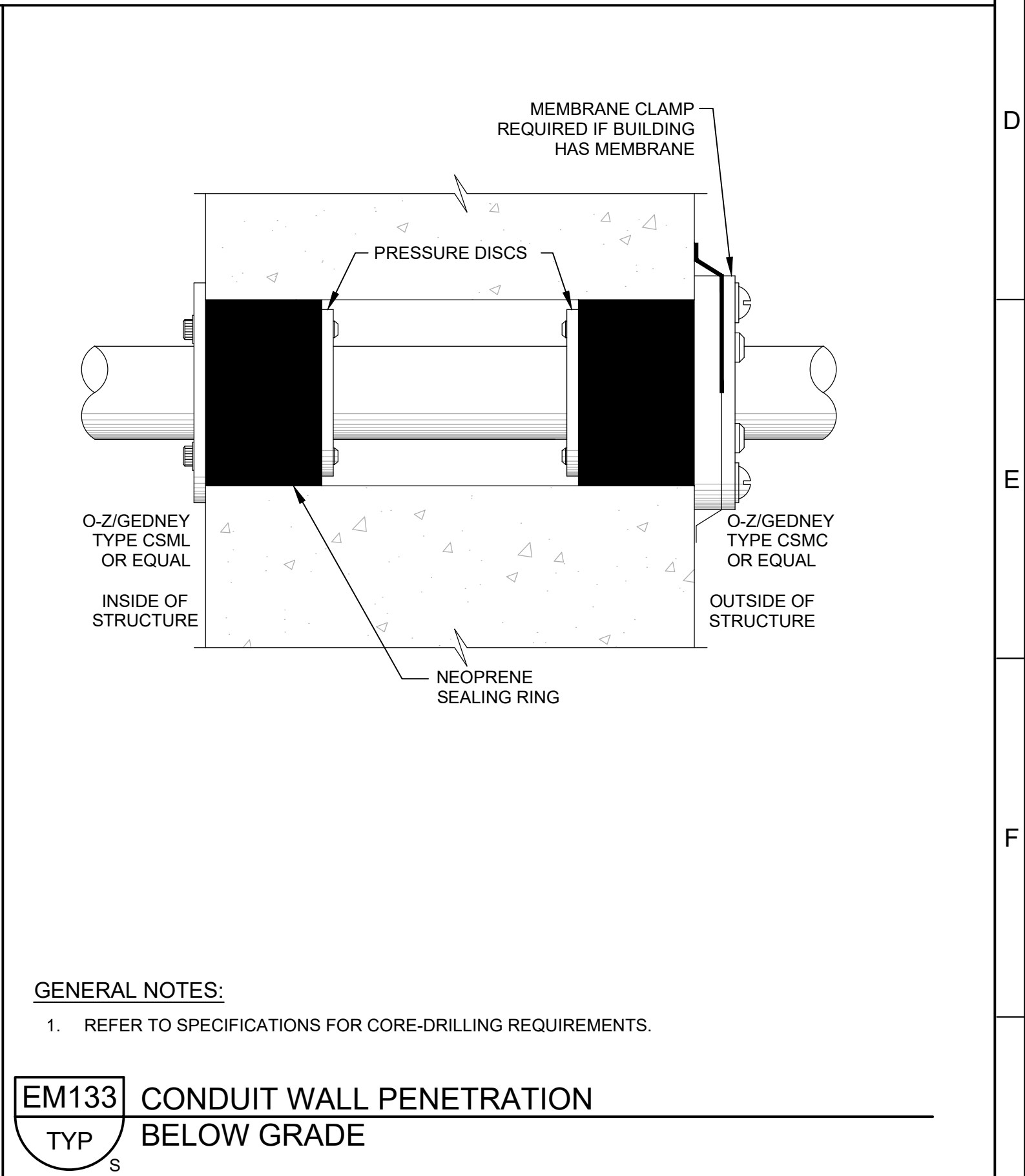
EM116 EMBEDDED CONDUIT IN CONCRETE SLAB
TYP STACKED RUNS



GENERAL NOTES:

1. WHERE SEVERAL CONDUITS ARE INSTALLED, FITTINGS MAY BE STAGGERED, BUT IN NO CASE SHALL A FITTING BE MORE THAN 3'-0" FROM THE EXPANSION JOINT.

EM126 EXPOSED EXPANSION/DEFLECTION FITTING AT
TYP CONCRETE WALL EXPANSION JOINT



GENERAL NOTES:

1. REFER TO SPECIFICATIONS FOR CORE-DRILLING REQUIREMENTS.

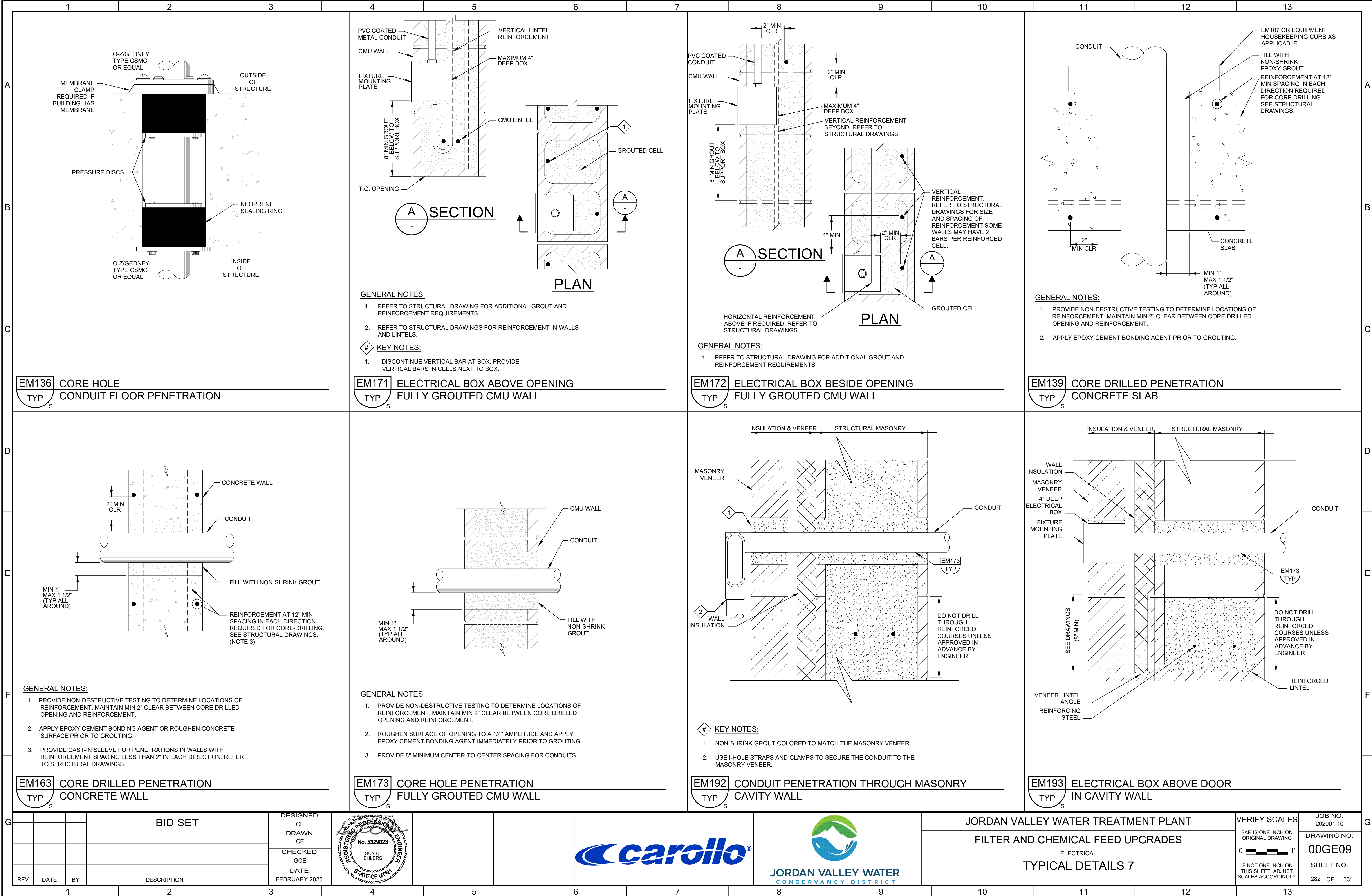
EM133 CONDUIT WALL PENETRATION
TYP BELOW GRADE

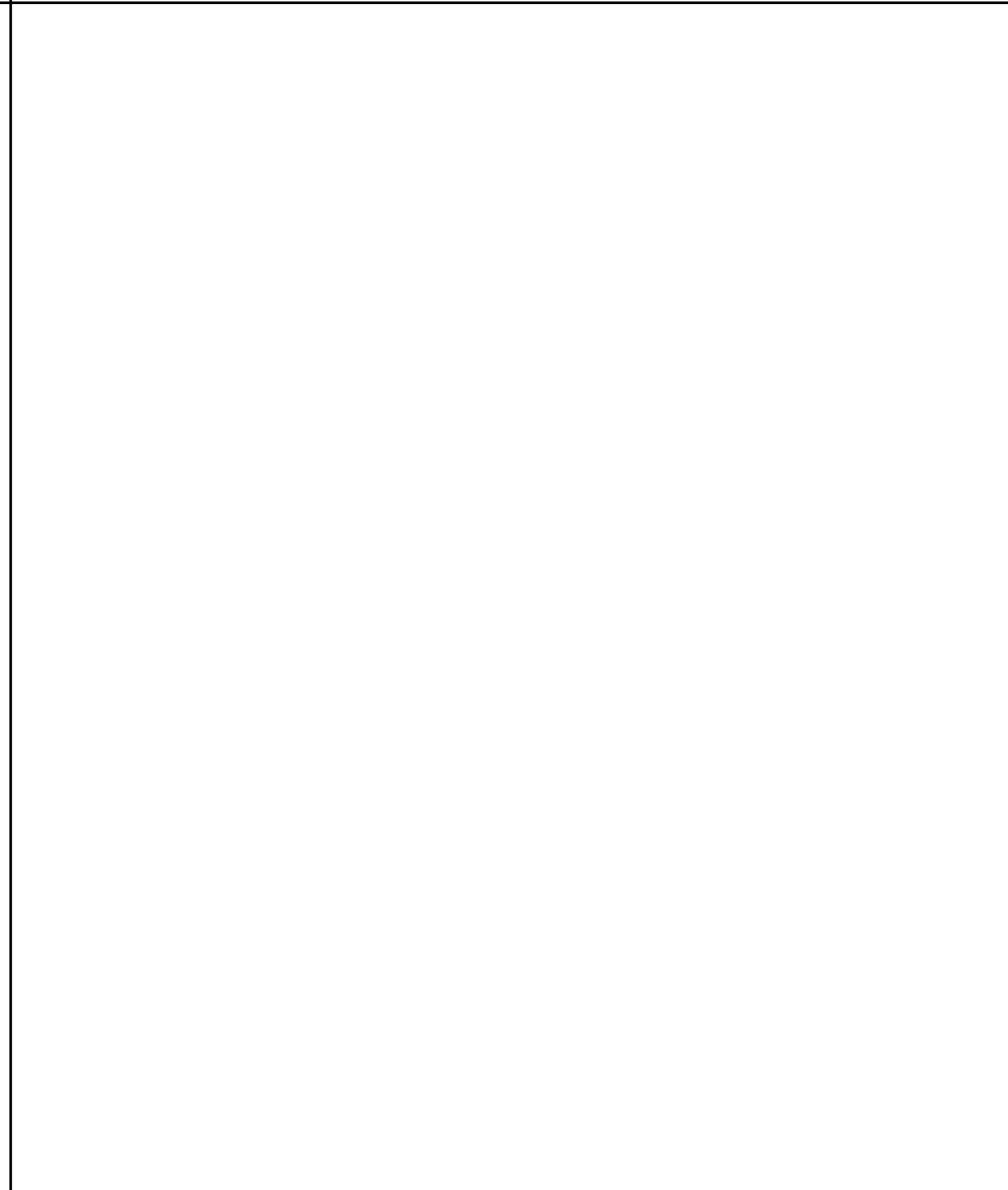
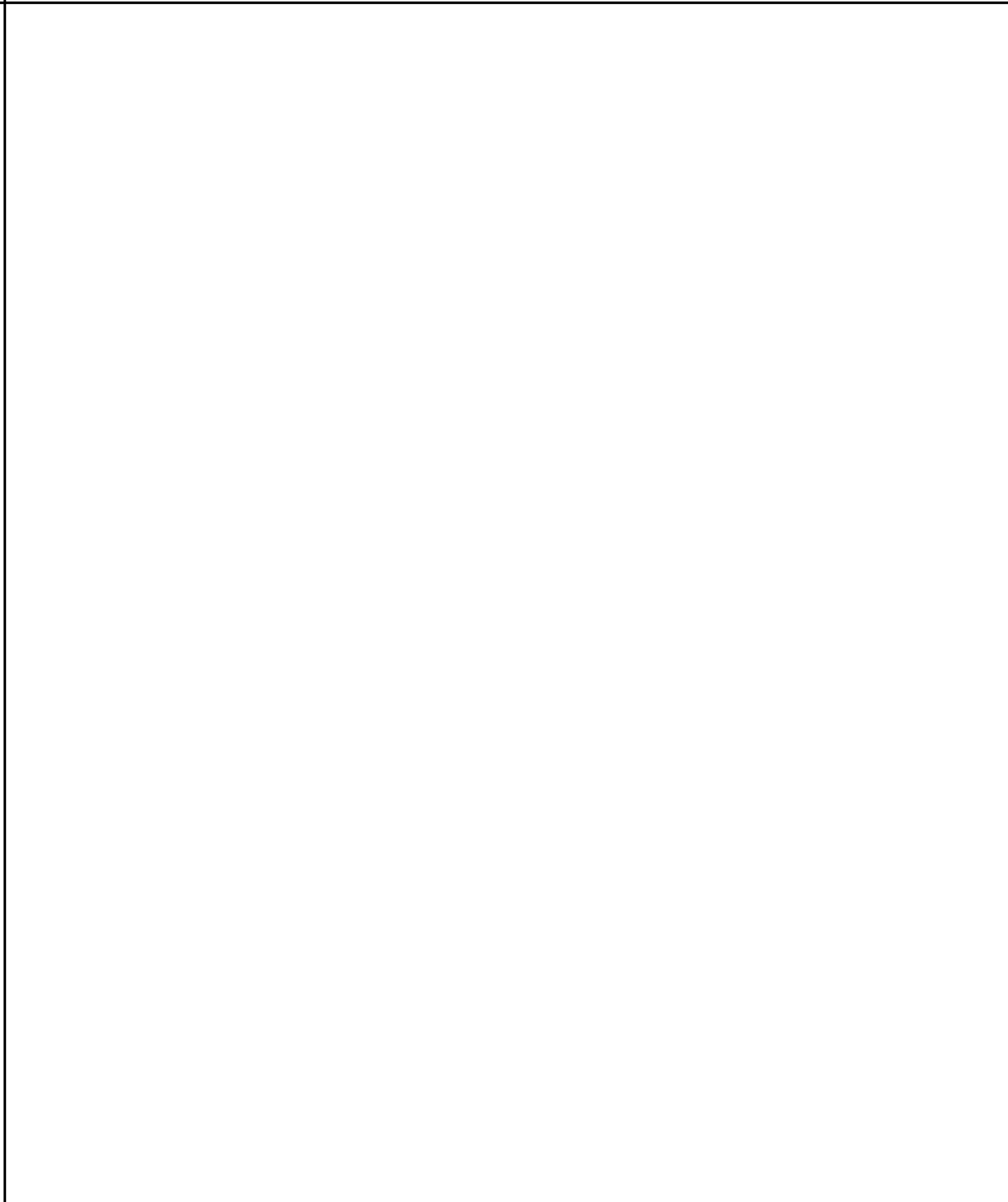
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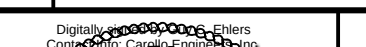
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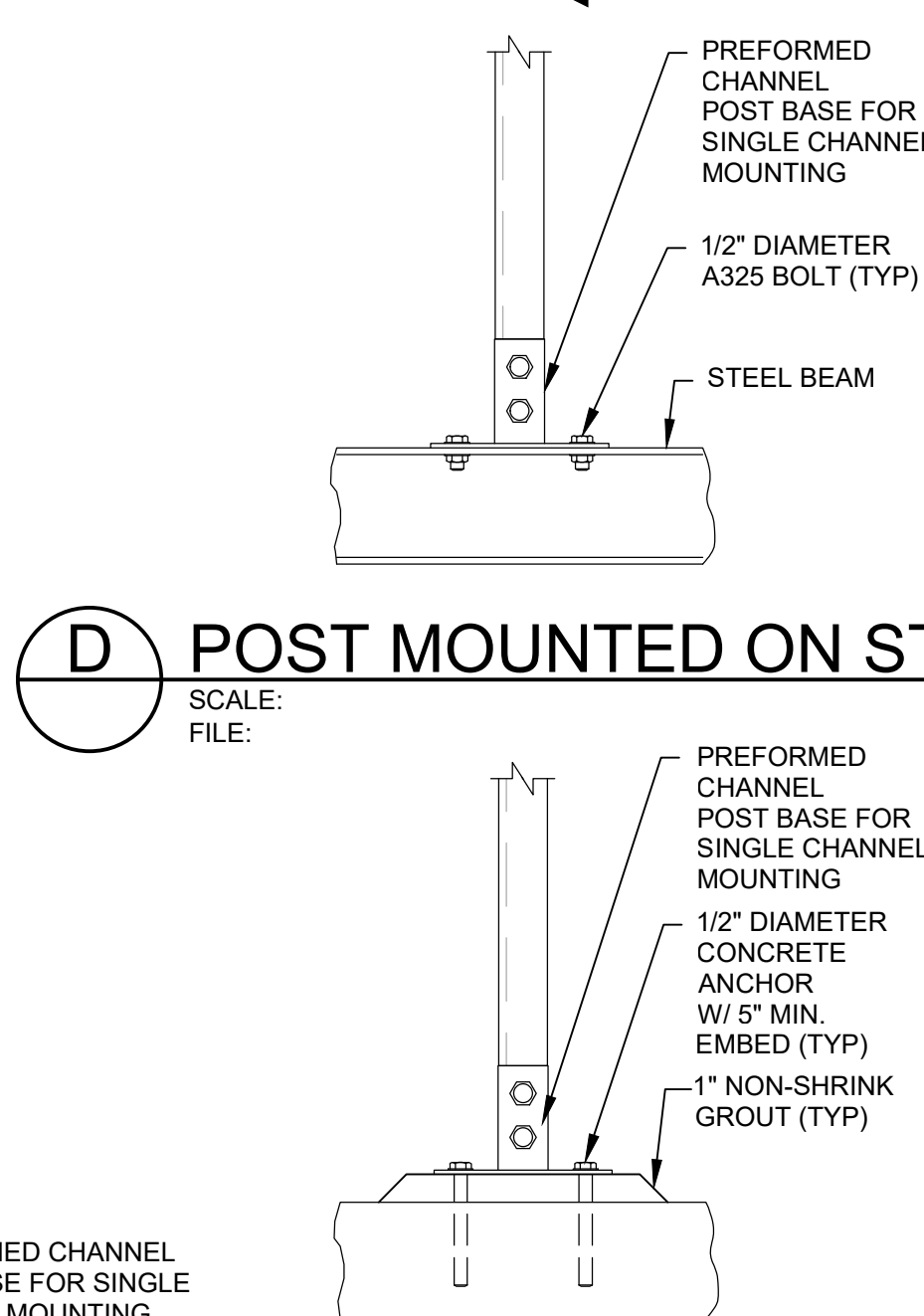
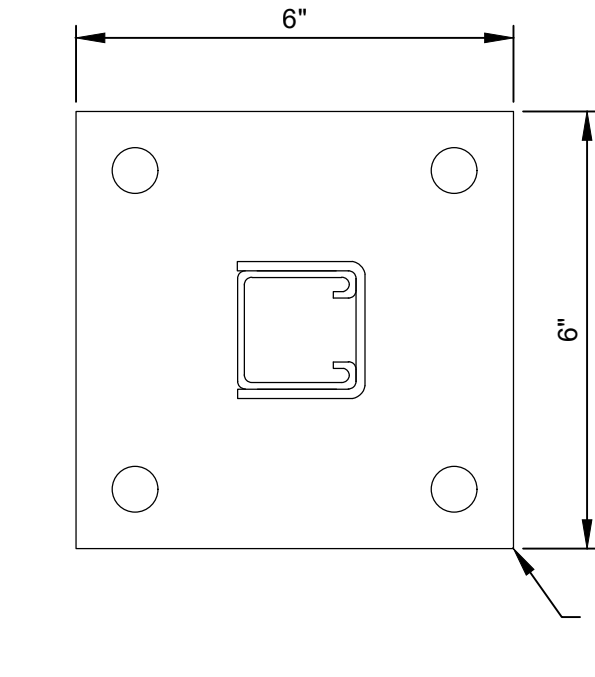
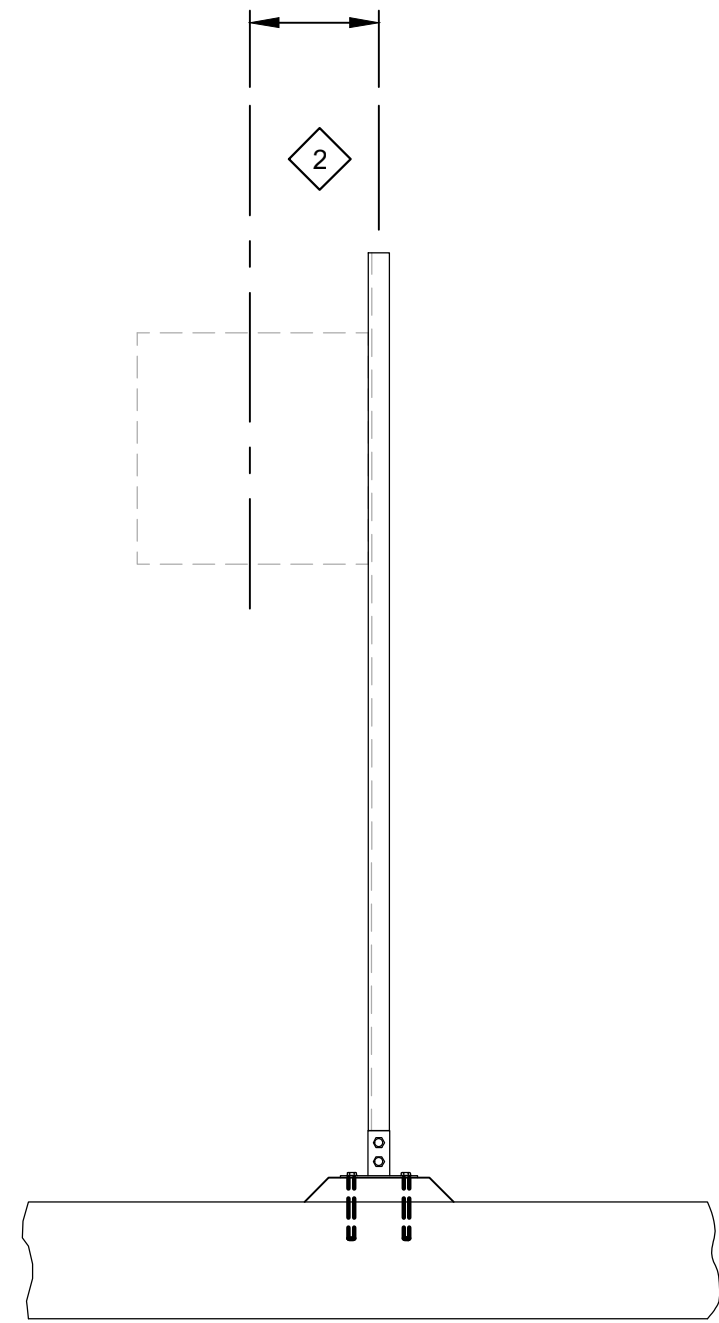
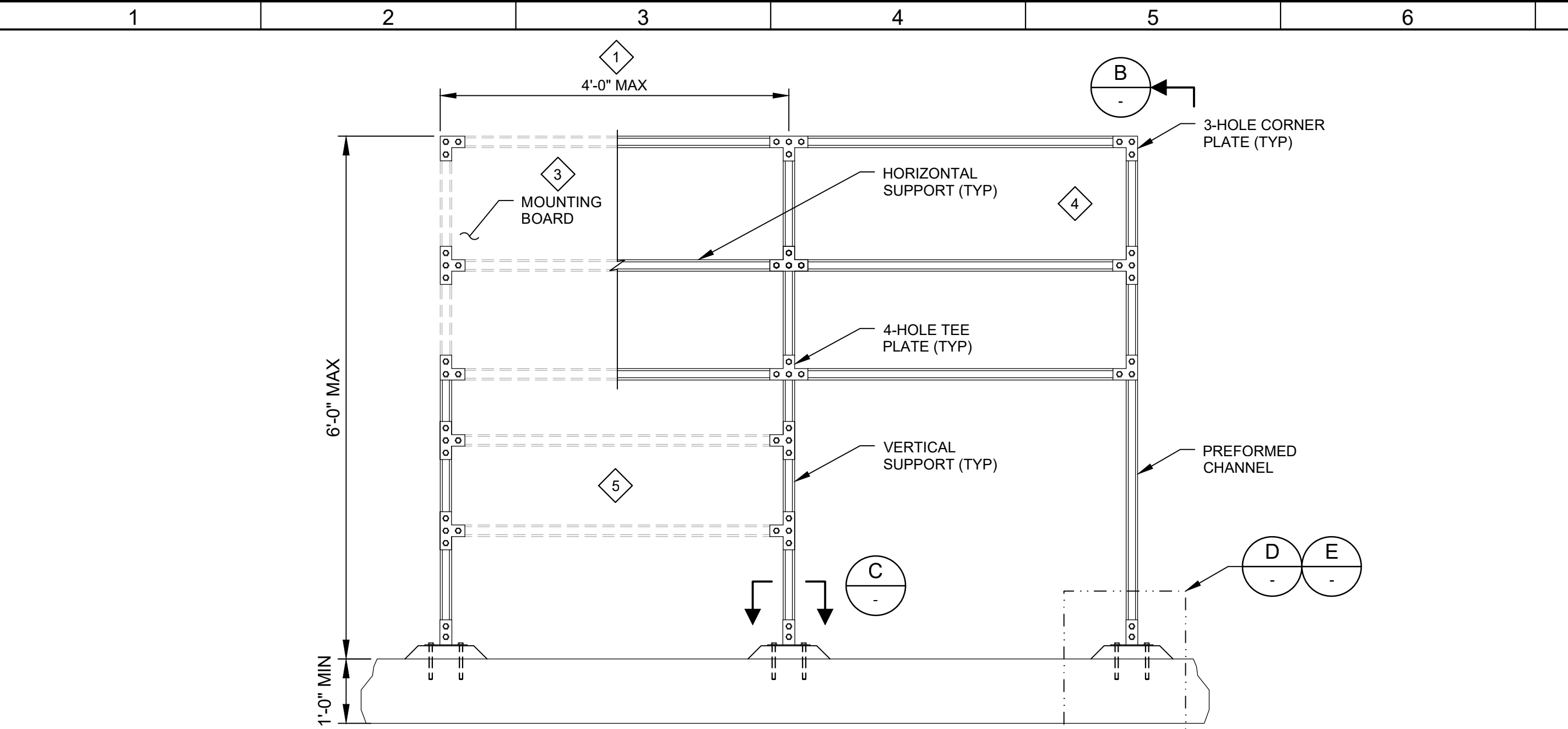




G				BID SET	DESIGNED CE						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202001.10										
					DRAWN CE						FILTER AND CHEMICAL FEED UPGRADES				DRAWING NO.										
					CHECKED GCE						ELECTRICAL				00GE10										
					DATE FEBRUARY 2025						TYPICAL DETAILS 8				SHEET NO.										
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PROJECT NO. 202001-100000				FILE NAME: 20200100GE10.dwg																					

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B SECTION

C POST BASE

D POST MOUNTED ON STEEL BEAM

GENERAL NOTES:

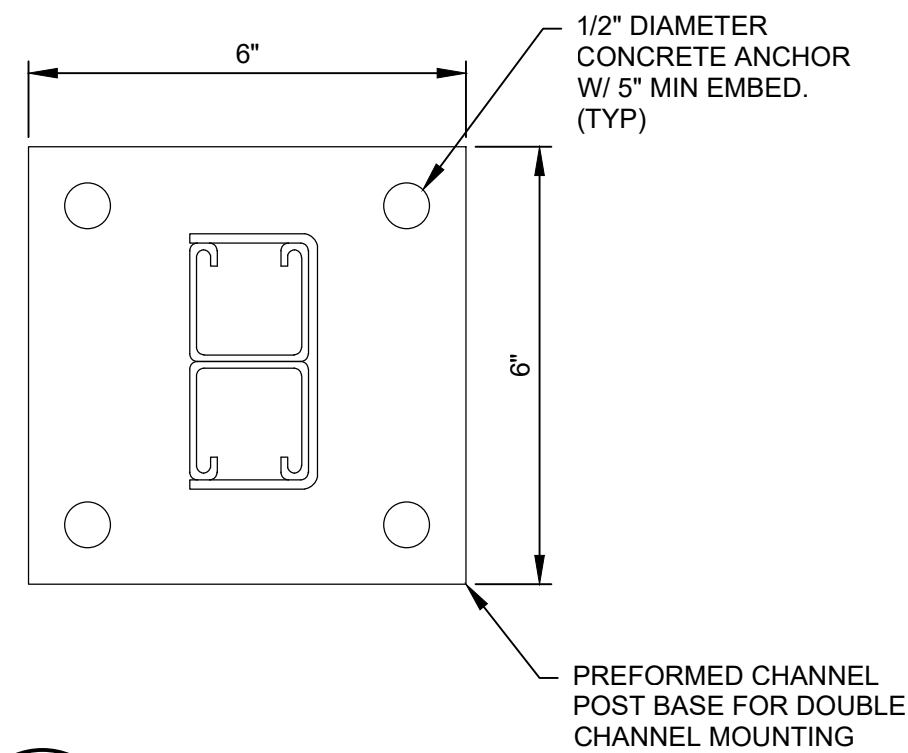
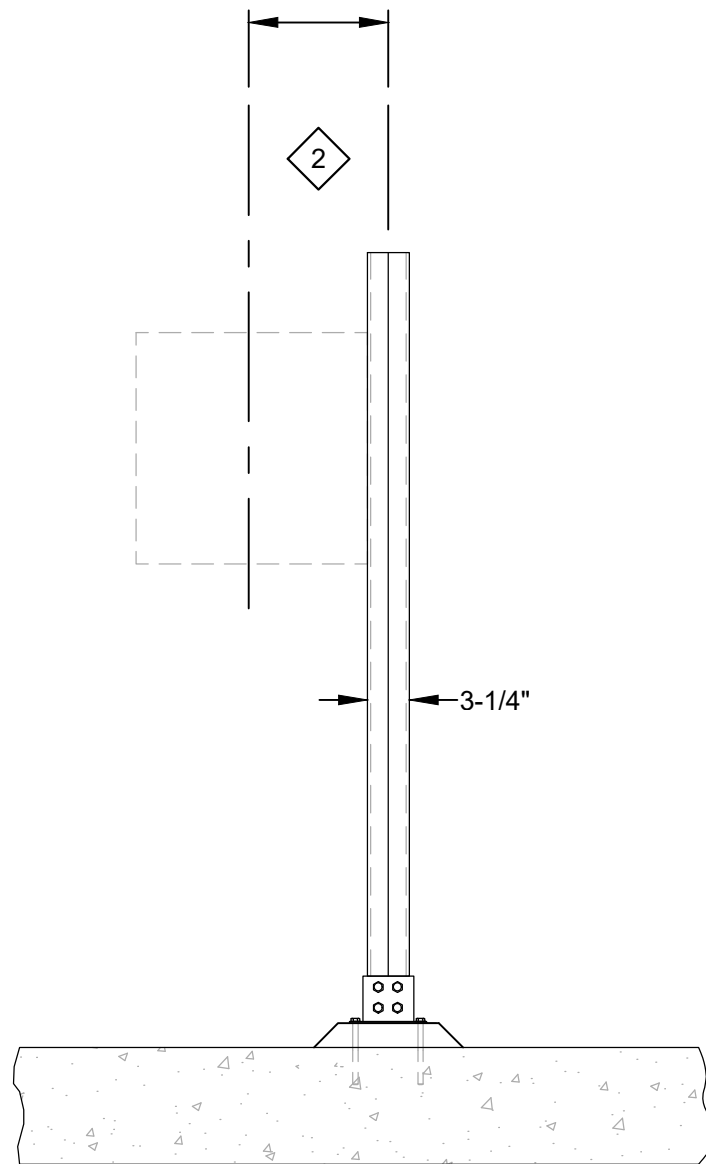
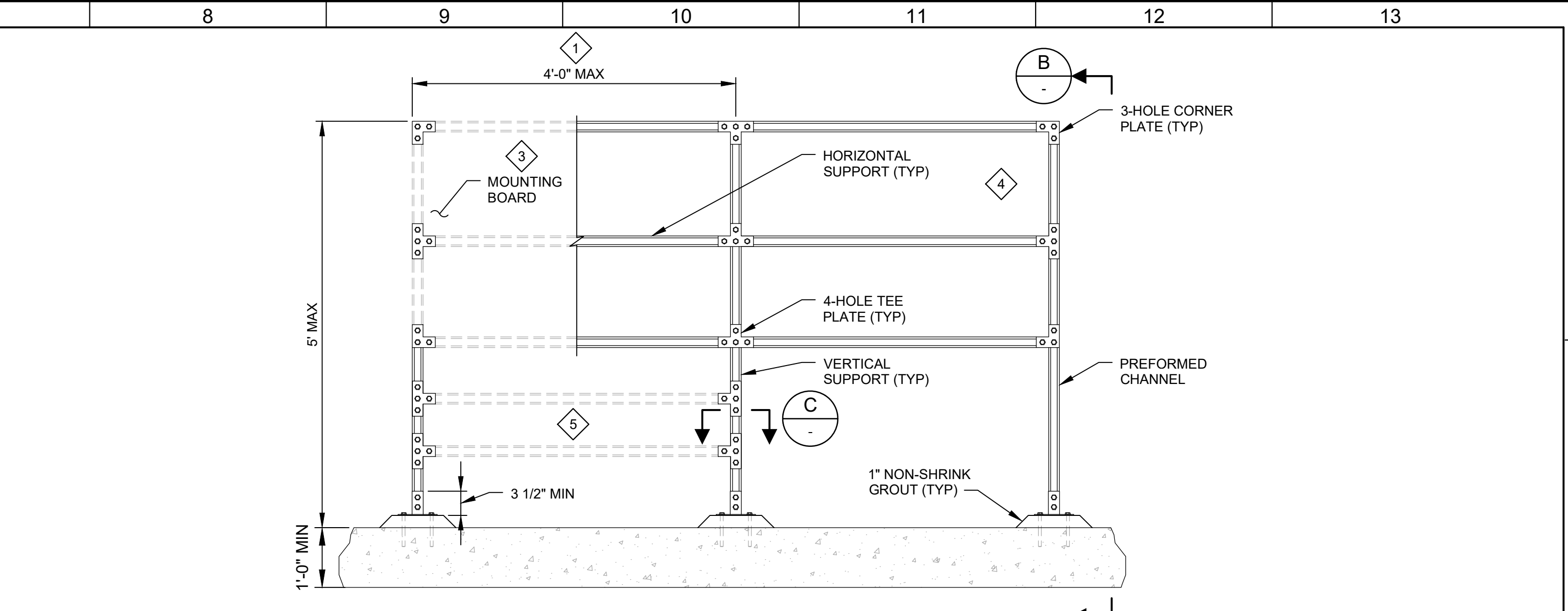
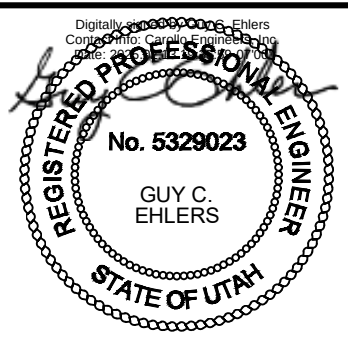
- AS SHOWN, THE MOUNTING STAND IS SUITABLE FOR THE FOLLOWING DESIGN CRITERIA.
 - STAINLESS STEEL OR HOT-DIPPED GALVANIZED PREFORMED CHANNEL
 - SEISMIC DESIGN CATEGORY: A THROUGH D
 - RISK CATEGORY: III AND IV
 - MAXIMUM EQUIPMENT LOAD OF 100 LBS PER VERTICAL SUPPORT
- SUBMIT DESIGN CALCULATIONS FOR EACH INSTALLATION THAT EXCEEDS THE SPECIFIED DESIGN CRITERIA OR DIMENSIONAL LIMITATIONS IN THIS DETAIL. REFER TO THE SPECIFICATIONS FOR DESIGN CALCULATION SUBMITTAL REQUIREMENTS
- REFER TO THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- WHERE CONCRETE ANCHORS COME IN CONTACT WITH DISSIMILAR METALS, ISOLATE DISSIMILAR METALS AS SPECIFIED IN THE SPECIFICATIONS.
- HORIZONTAL AND VERTICAL SUPPORTS SHALL CONSIST OF PREFORMED SINGLE CHANNELS.

EM210 INDOOR EQUIPMENT MOUNTING STAND

TYP

REV	DATE	BY	DESCRIPTION

DESIGNED CE
DRAWN CE
CHECKED GCE
DATE FEBRUARY 2025



B SECTION

C POST BASE

GENERAL NOTES:

- AS SHOWN, THE MOUNTING STAND IS SUITABLE FOR THE FOLLOWING DESIGN CRITERIA.
 - STAINLESS STEEL OR HOT-DIPPED GALVANIZED PREFORMED CHANNEL
 - BASIC WIND SPEED (3 SECOND GUST, 33 FEET ABOVE GROUND) : 120 MPH
 - WIND EXPOSURE CATEGORY: C
 - NON -SPECIAL WIND REGIONS
 - SEISMIC DESIGN CATEGORY: A THROUGH D
 - RISK CATEGORY: III AND IV
 - MAXIMUM EQUIPMENT LOAD OF 100 LBS PER VERTICAL SUPPORT
- SUBMIT DESIGN CALCULATIONS FOR EACH INSTALLATION THAT EXCEEDS THE SPECIFIED DESIGN CRITERIA OR DIMENSIONAL LIMITATIONS IN THIS DETAIL. REFER TO THE SPECIFICATIONS FOR DESIGN CALCULATION SUBMITTAL REQUIREMENTS.
- THE TOTAL SURFACE AREA OF ALL EQUIPMENT AND MOUNTING BOARDS SHALL NOT EXCEED 12 SQUARE FEET PER VERTICAL SUPPORT.
- REFER TO THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- WHERE CONCRETE ANCHORS COME IN CONTACT WITH DISSIMILAR METALS, ISOLATE DISSIMILAR METALS AS SPECIFIED IN THE SPECIFICATIONS.
- VERTICAL SUPPORTS SHALL CONSIST OF PREFORMED DOUBLE CHANNELS. HORIZONTAL SUPPORTS SHALL CONSIST OF PREFORMED SINGLE CHANNELS.

EM211 OUTDOOR EQUIPMENT MOUNTING STAND

TYP

KEY NOTES:

- FOR MOUNTING STANDS WIDER THAN 4 FEET PROVIDE EQUALLY SPACED VERTICAL SUPPORTS AT 4 FOOT MAXIMUM SPACING.
- MAXIMUM OFFSET TO THE CENTERLINE OF EQUIPMENT OR ENCLOSURES IS 1'-6".
- PROVIDE A MOUNTING BOARD FOR INSTRUMENTS AND DEVICES WEIGHING LESS THAN 20 POUNDS THAT CANNOT BE MOUNTED DIRECTLY TO PREFORMED CHANNEL. EQUIPMENT ANCHORAGE TO THE MOUNTING BOARD SHALL BE DESIGNED BY THE CONTRACTOR.
- PROVIDE ADDITIONAL PREFORMED CHANNEL SUPPORTS FOR ENCLOSURES THAT CAN BE MOUNTED DIRECTLY TO THE PREFORMED CHANNEL.
- OPTIONAL HORIZONTAL SUPPORTS AND AVAILABLE SPACE FOR JUNCTION BOXES.

JORDAN VALLEY WATER TREATMENT PLANT

FILTER AND CHEMICAL FEED UPGRADES

ELECTRICAL

TYPICAL DETAILS 9

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10

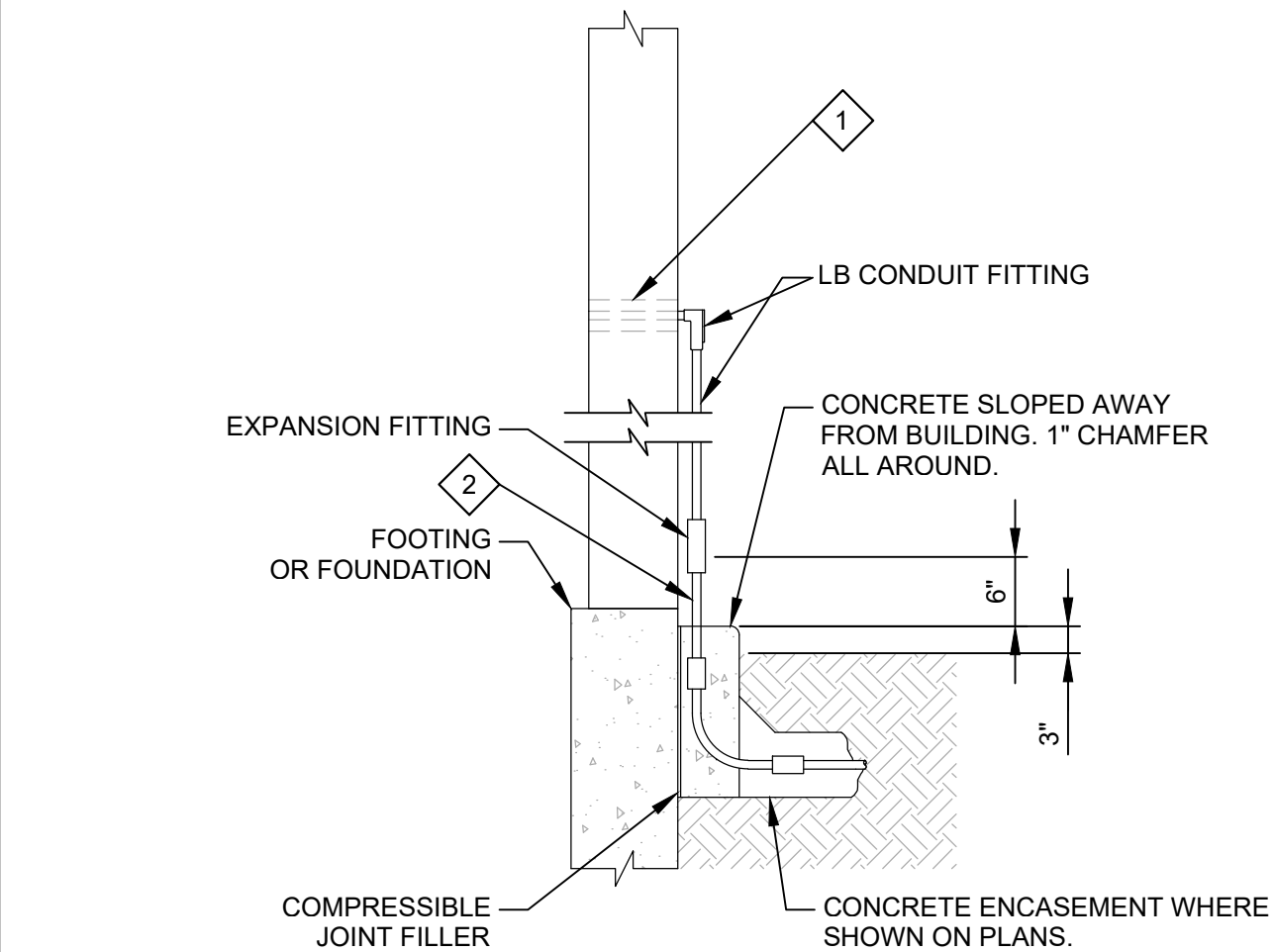
DRAWING NO.
00GE11

SHEET NO.
284 OF 531



Plot Date: 9/12/2022 7:29:07 AM

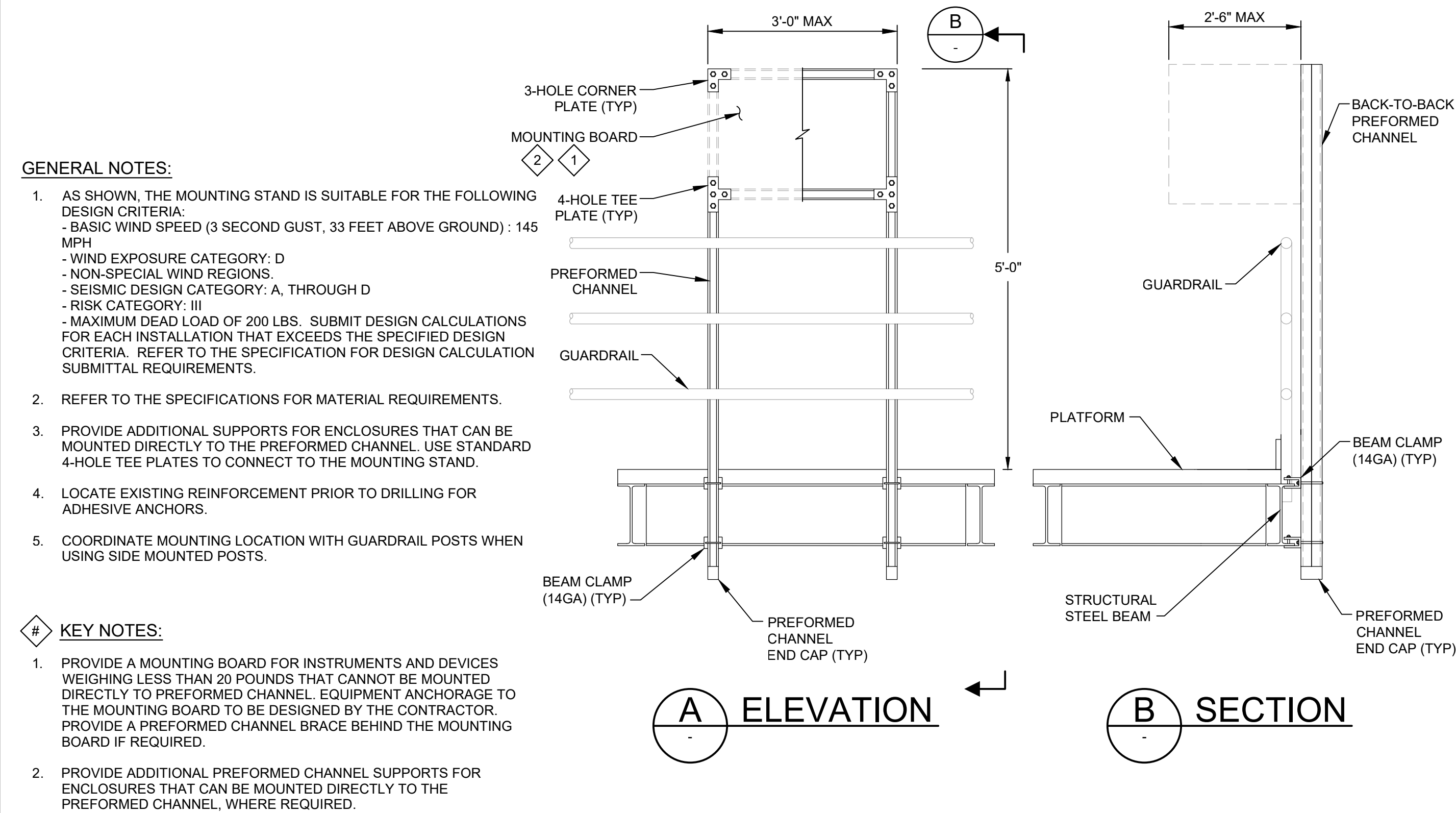
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- GENERAL NOTES:**
- REFER TO THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- KEY NOTES:**
- USE THE WALL PENETRATION DETAIL SUITABLE FOR THE WALL CONSTRUCTION.
 - DO NOT ATTACH THE CONDUIT TO THE BUILDING BEFORE THE EXPANSION FITTING.

EM219 DUCT BANK RISER
TYP ADJACENT TO BUILDING

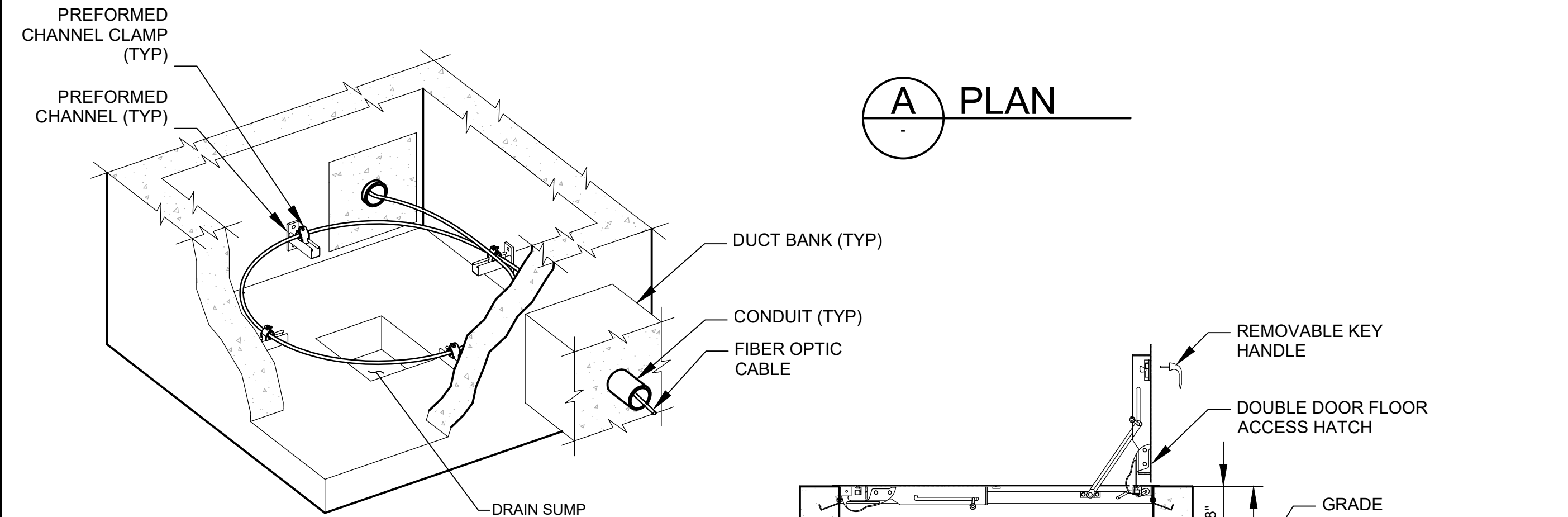
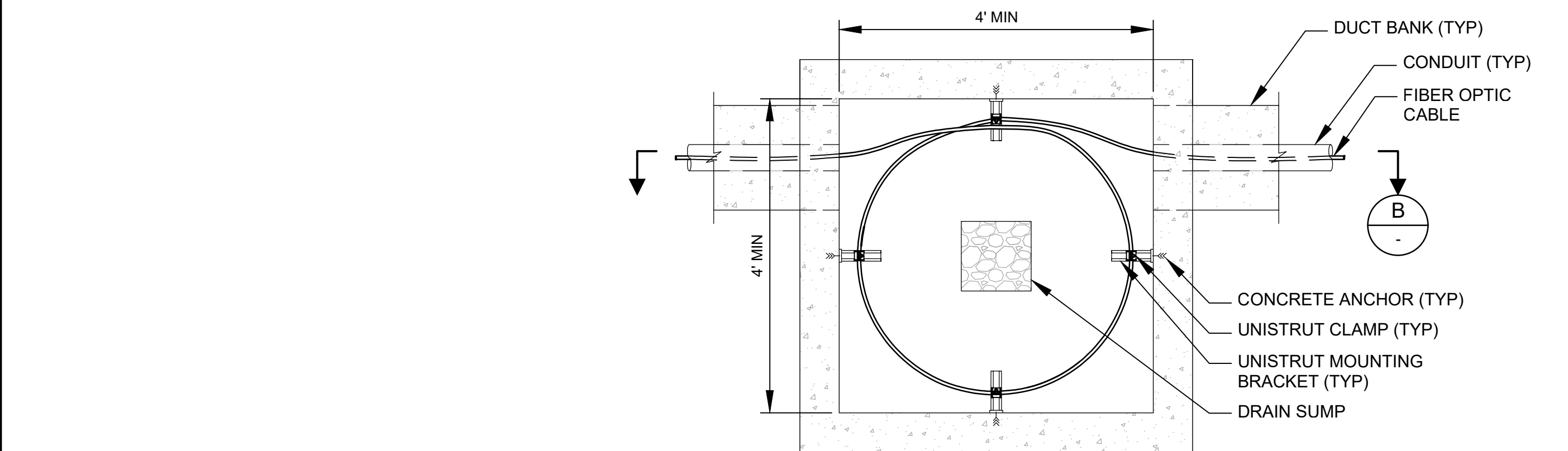
10/15/22



- GENERAL NOTES:**
- AS SHOWN, THE MOUNTING STAND IS SUITABLE FOR THE FOLLOWING DESIGN CRITERIA:
 - BASIC WIND SPEED (3 SECOND GUST, 33 FEET ABOVE GROUND) : 145 MPH
 - WIND EXPOSURE CATEGORY: D
 - NON-SPECIAL WIND REGIONS.
 - SEISMIC DESIGN CATEGORY: A, THROUGH D
 - RISK CATEGORY: III
 - MAXIMUM DEAD LOAD OF 200 LBS. SUBMIT DESIGN CALCULATIONS FOR EACH INSTALLATION THAT EXCEEDS THE SPECIFIED DESIGN CRITERIA. REFER TO THE SPECIFICATION FOR DESIGN CALCULATION SUBMITTAL REQUIREMENTS.
 - REFER TO THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
 - PROVIDE ADDITIONAL SUPPORTS FOR ENCLOSURES THAT CAN BE MOUNTED DIRECTLY TO THE PREFORMED CHANNEL. USE STANDARD 4-HOLE TEE PLATES TO CONNECT TO THE MOUNTING STAND.
 - LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING FOR ADHESIVE ANCHORS.
 - COORDINATE MOUNTING LOCATION WITH GUARDRAIL POSTS WHEN USING SIDE MOUNTED POSTS.

- KEY NOTES:**
- PROVIDE A MOUNTING BOARD FOR INSTRUMENTS AND DEVICES WEIGHING LESS THAN 20 POUNDS THAT CANNOT BE MOUNTED DIRECTLY TO PREFORMED CHANNEL. EQUIPMENT ANCHORAGE TO THE MOUNTING BOARD TO BE DESIGNED BY THE CONTRACTOR. PROVIDE A PREFORMED CHANNEL BRACE BEHIND THE MOUNTING BOARD IF REQUIRED.
 - PROVIDE ADDITIONAL PREFORMED CHANNEL SUPPORTS FOR ENCLOSURES THAT CAN BE MOUNTED DIRECTLY TO THE PREFORMED CHANNEL, WHERE REQUIRED.

EM214 EQUIPMENT MOUNTING STAND
TYP ON PLATFORM



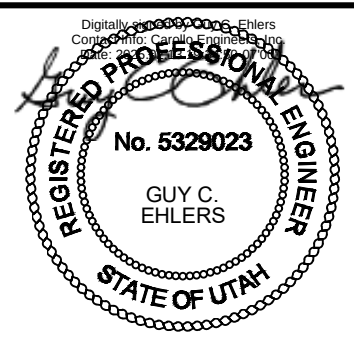
- GENERAL NOTES:**
- ALL PREFORMED CHANNEL AND HARDWARE SHALL BE STAINLESS STEEL.
- KEY NOTES:**
- COAT EXTERIOR WALLS BELOW GRADE WITH BITUMINOUS DAMPPROOFING.
 - BASE MATERIAL: PROVIDE MIN 12" COMPACTED AGGREGATE BASE COURSE.
 - BOND DUCT BANK GROUND CABLE TO GROUND ROD. REFER TO THE SPECIFICATIONS FOR CONNECTION REQUIREMENTS.
 - PROVIDE MINIMUM 4 INCH DIAMETER, GRAVEL FILLED PENETRATION THROUGH FLOOR OF HANDHOLE. SET SUMP OPENING OVER MINIMUM 18" SQUARE FILTER FABRIC TO ISOLATE GRAVEL FROM BASE MATERIAL BELOW.
 - GROUNDING CABLE CONNECTION. REFER TO THE SPECIFICATIONS FOR CONNECTION REQUIREMENTS.

EM251 PRECAST VAULT WITH HATCH FIBER LOOP
TYP

01/23/25

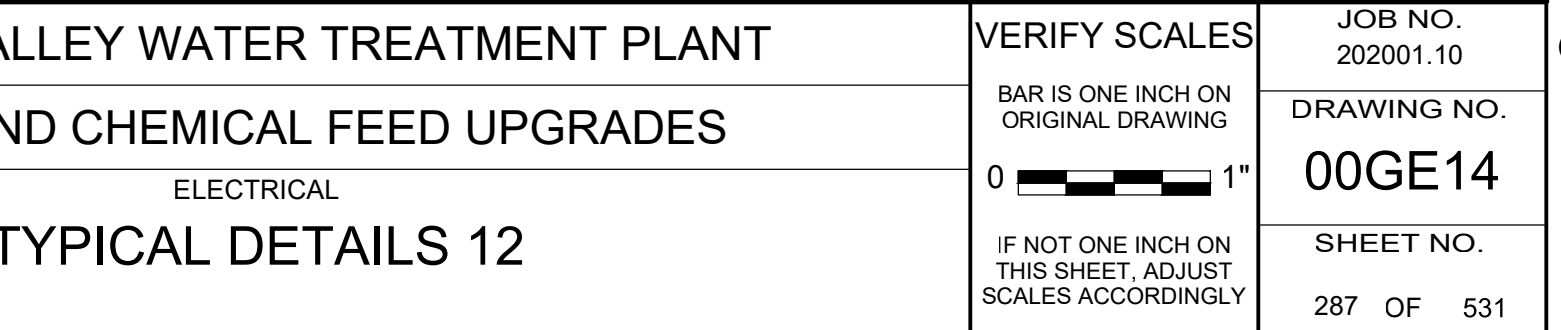
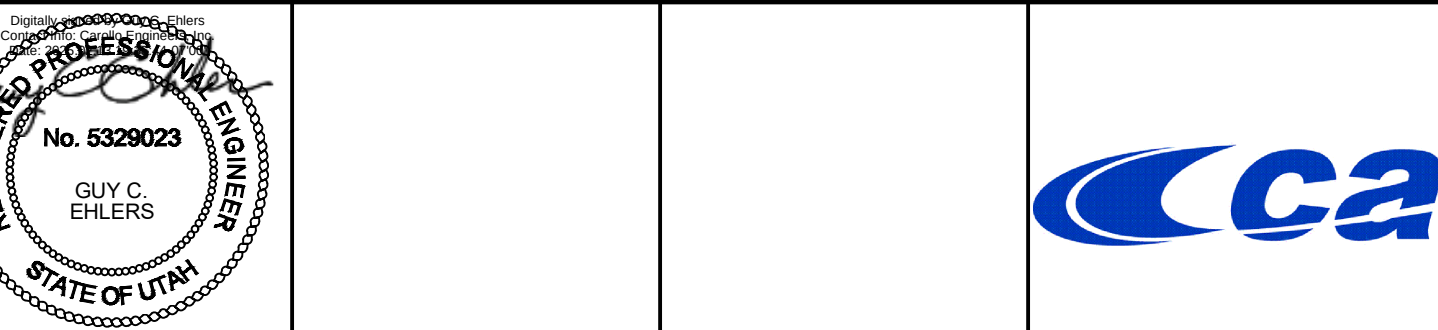
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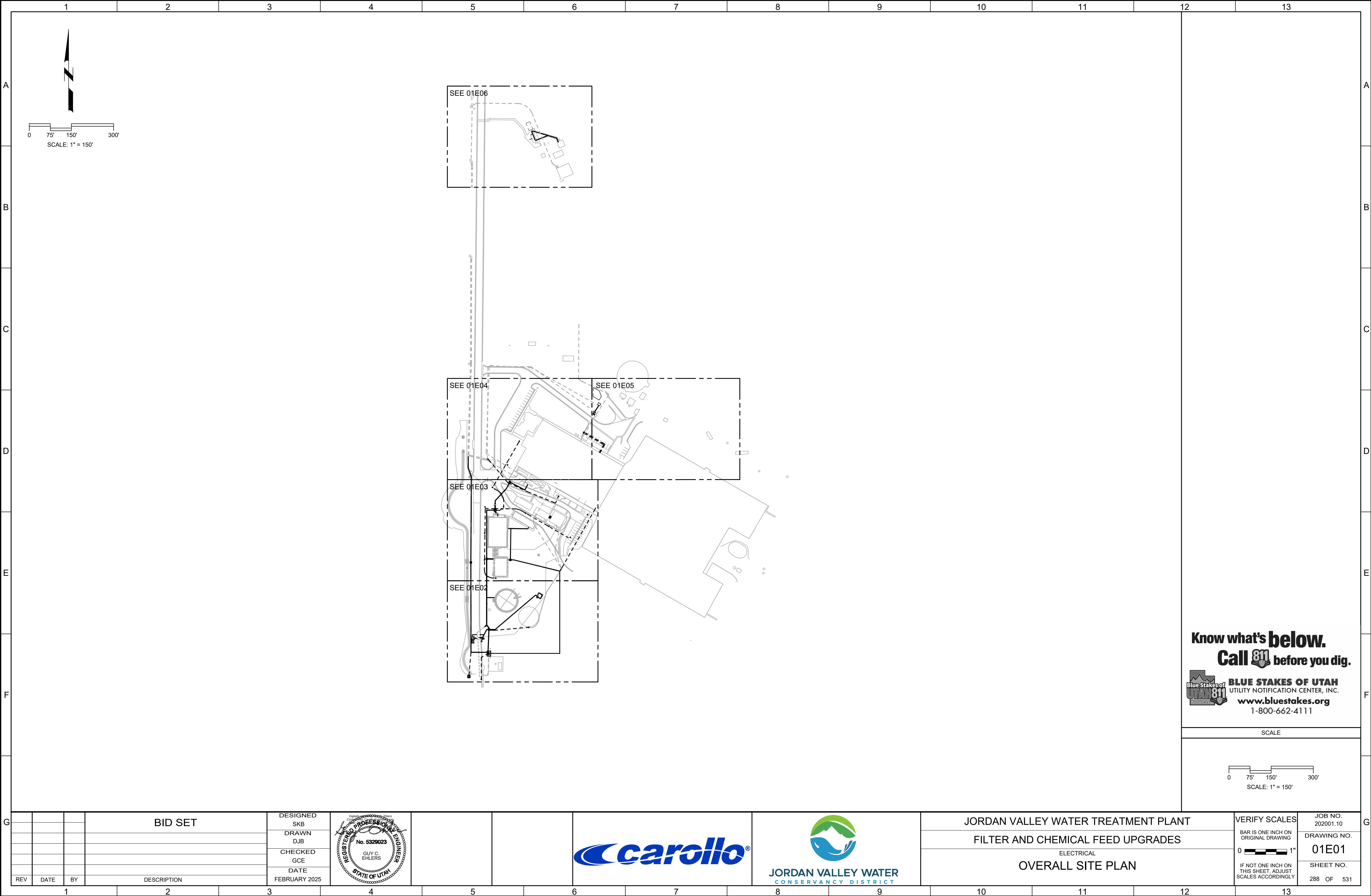
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CHECKED GCE
DATE FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT	
FILTER AND CHEMICAL FEED UPGRADES	
ELECTRICAL	
TYPICAL DETAILS 11	

VERIFY SCALES	JOB NO. 202001.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00GE13
0 1"	SHEET NO. 286 OF 531
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

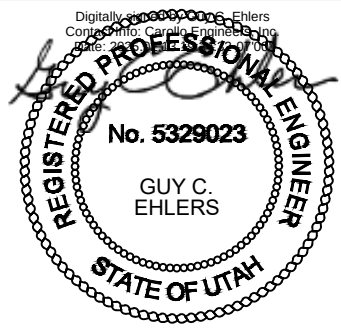




LAST SAVED BY: broepken

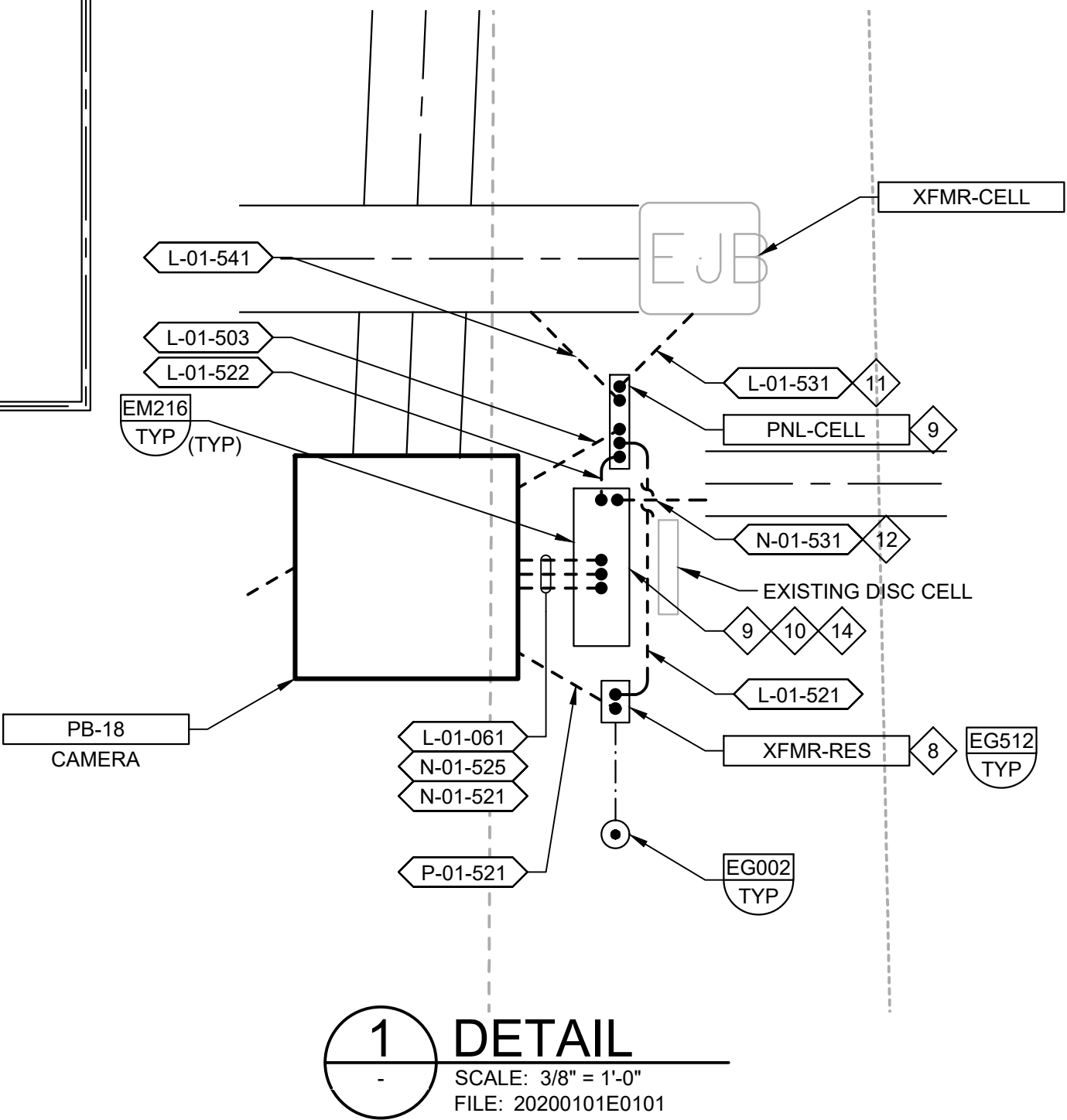
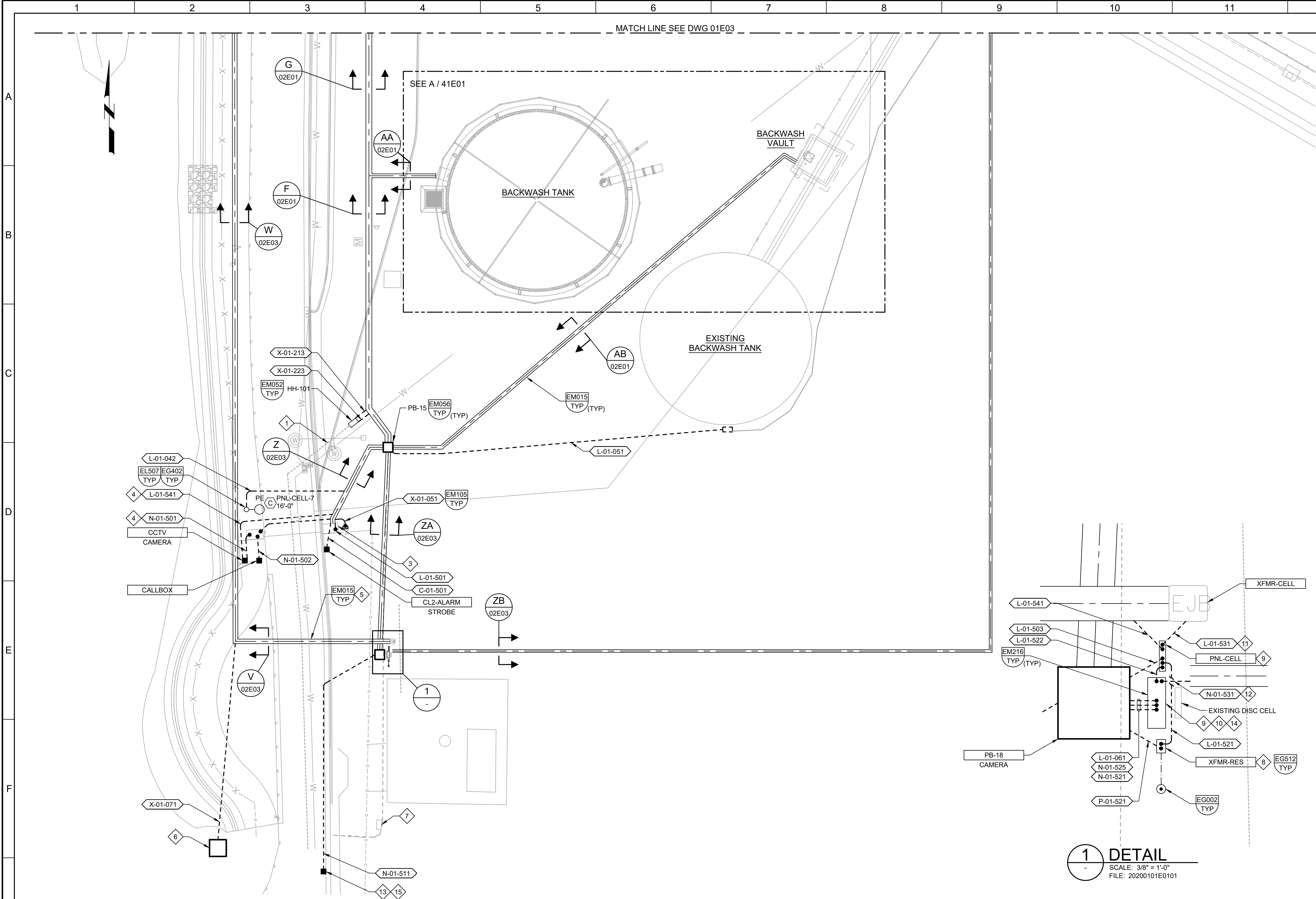
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DESIGNED	SKB
DRAWN	DJB
CHECKED	GCE
DATE	FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT	
FILTER AND CHEMICAL FEED UPGRADES	
ELECTRICAL	
OVERALL SITE PLAN	

VERIFY SCALES	JOB NO. 202001.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 01E01
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 288 OF 531

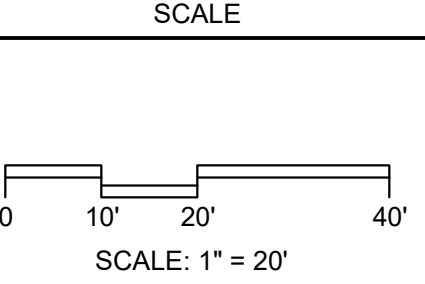


- GENERAL NOTES:**
- SEE OVERALL SITE PLAN ON DRAWING 01E01.
 - SEE DRAWING 00DE01 FOR DEMOLITION IN THIS AREA.
- KEY NOTES:**
- TWO ABANDONED 4-INCH CONDUITS. TERMINATE CONDUITS IN NEW HAND HOLE.
 - REROUTE TWO EXISTING CONDUITS WITH (3) #12 AWG CONDUCTORS FOR BACKWASH RESERVOIR LEVEL TRANSMITTER HEATER AND (1) 2/CS-#16 CABLE FOR LEVEL TRANSMITTER SIGNAL.
 - SOUTH SECURITY GATE, RELOCATED FROM EXISTING LOCATION. MODEL VPL-24, AG# AG8617, SERIAL NO. G-JA15-C03975. PROVIDE ALL NECESSARY CONDUIT AND WIRING TO MATCH EXISTING LOCATION.
 - STUB UP FOR SECURITY CAMERA, TO BE RELOCATED FROM EXISTING LOCATION.
 - PROVIDE CONCRETE CAP OVER DUCT BANK AS SHOWN IN THE TYPICAL DETAIL.
 - RELOCATE EXISTING PULL BOX FROM DRAWING 01DE01.
 - EXISTING PULL BOX FOR POWER AND FIBER OPTIC TO THE CULINARY RESERVOIR.
 - 3 KVA, 240V-480V, 1-PHASE, STEP UP TRANSFORMER FURNISHED BY OWNER, AND USED FOR TEMPORARY POWER TO THE CULINARY RESERVOIR.
 - PNL-CELL AND THE ELECTRONICS ENCLOSURE WILL BE PERMANENT. AT PROJECT COMPLETION, DISCONNECT POWER FROM XFMR-CELL TO PNL-CELL. RE-POWER PNL-CELL FROM PNL-CS IN THE CAUSTIC SODA BUILDING.
 - ELECTRONIC EQUIPMENT ENCLOSURE. 36 INCHES HIGH X 30 INCHES WIDE X 12 INCHES DEEP WITH BACK PANEL. RE-LOCATE ELECTRONIC EQUIPMENT FROM EXISTING GATE CONTROL BOX AND CHLORINE DIOXIDE RTU TO NEW ELECTRONICS ENCLOSURE AS SHOWN ON DRAWINGS. INSTALL NEW POWER METER AND OTHER NEW ITEMS AS REQUIRED.
 - TEMPORARY POWER FOR PNL-CELL.
 - TEMPORARY FIBER OPTIC FOR ELECTRONICS ENCLOSURE. ABANDON FIBER OPTIC AFTER THE PERMANENT FIBER OPTIC CONNECTION IS MADE TO RTU-CS.
 - FIELD VERIFY LOCATION OF EXISTING GATE CARD READER.
 - ELECTRONICS ENCLOSURE.
 - GATE CARD READER.

Know what's below.
Call 811 before you dig.

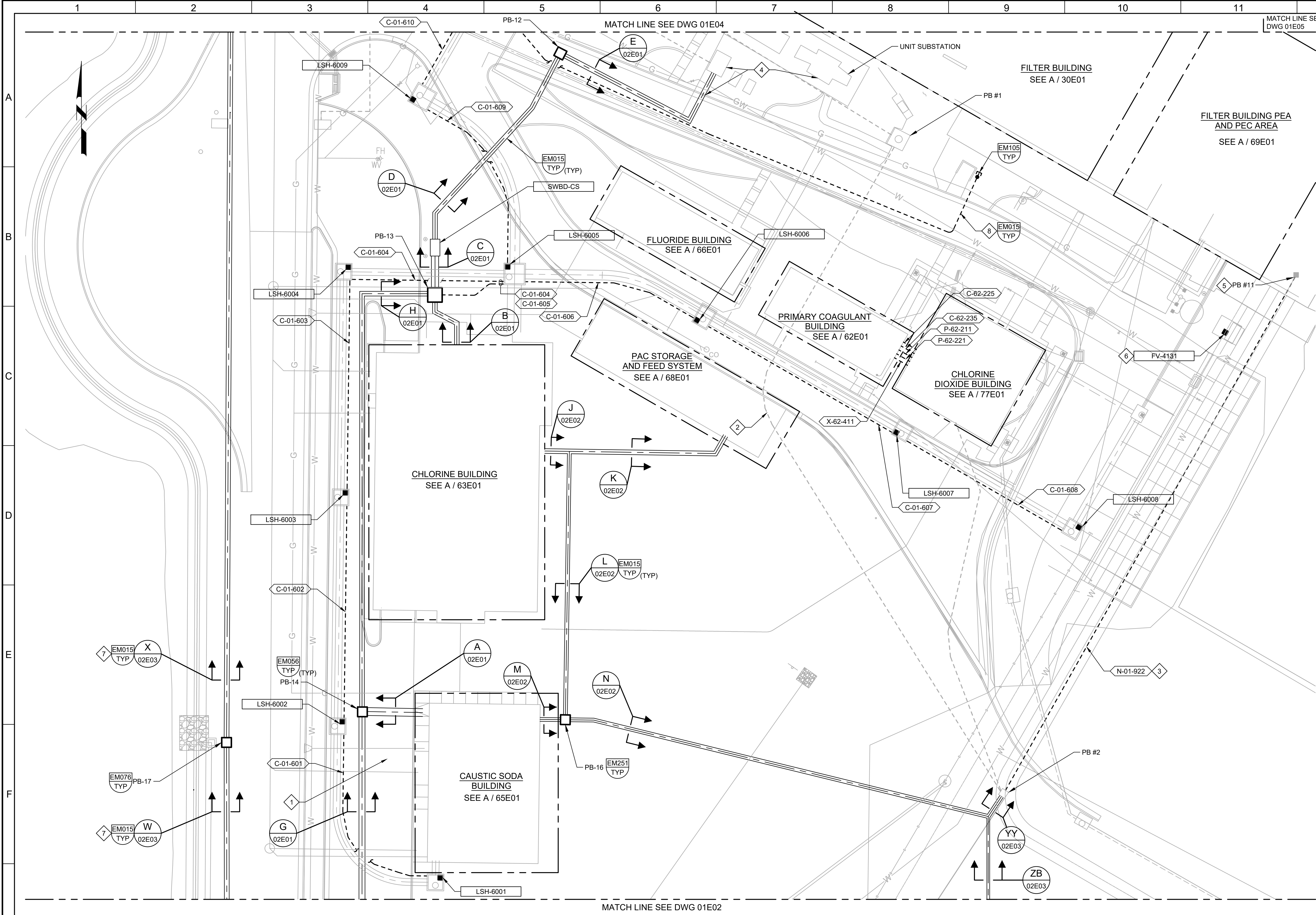
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1 DETAIL
SCALE: 3/8" = 1'-0"
FILE: 20200101E0101



BID SET				DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
				DRAWN NKK						FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 01E02
				CHECKED GCE						ELECTRICAL			0 1"	SHEET NO.
				DATE FEBRUARY 2025						ENLARGED SITE PLAN 1			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	289 OF 531
REV	DATE	BY	DESCRIPTION											
1														

PROJECT NO. FILE NAME: 20200101E02.dwg



GENERAL NOTES:

1. SEE OVERALL SITE PLAN ON DRAWING 01E01.
2. SEE DRAWING 00DE02 FOR DEMOLITION IN THIS AREA.
3. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP FOR ALL 4-WIRE INSTRUMENTS.

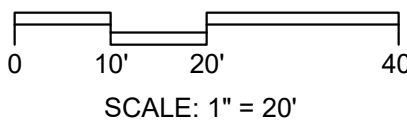
KEY NOTES:

1. REROUTE EXISTING 12.47KV SINGLE PHASE CIRCUIT BETWEEN HANDHOLE AND SECTIONALIZER 4 FOR THE CELL TOWER. REFER TO ONE-LINE DIAGRAM ON DRAWING 03E02 FOR CABLE SIZE. SPLICE IN HANDHOLE AND PROVIDE NEW CABLES TO MATCH EXISTING CABLES.
2. PROTECT EXISTING DUCT BANK IN PLACE BELOW THE NEW PAC AREA.
3. USE EXISTING SPARE CONDUIT TO ROUTE FIBER OPTIC WIRING THROUGH EXISTING DUCT BANK FROM PB #2 TO PB #11.
4. USE EXISTING VAULT BELOW THE TRANSFORMER TO ROUTE NEW 480V CIRCUIT FROM UNIT SUBSTATION TO NEW SWBD-CS THROUGH TWO EXISTING CONDUITS AND NEW DUCT BANK.
5. SEE DRAWING 30E10 FOR CONTINUATION.
6. RECONNECT NEW VALVE ACTUATOR TO EXISTING POWER AND I/O CONDUCTORS.
7. PROVIDE CONCRETE CAP OVER DUCT BANK AS SHOWN IN THE TYPICAL DETAIL.
8. INSTALL 5-INCH PVC CONDUIT. USE EXISTING SPARE CONDUIT IN EXISTING DUCT BANK.

Know what's below.
Call 811 before you dig.

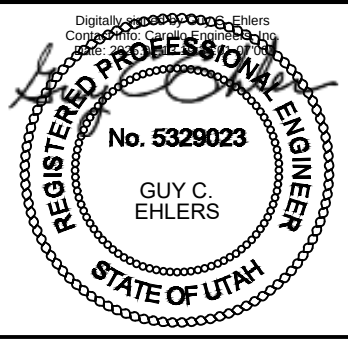
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SKB
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GCE
DATE
FEBRUARY 2025

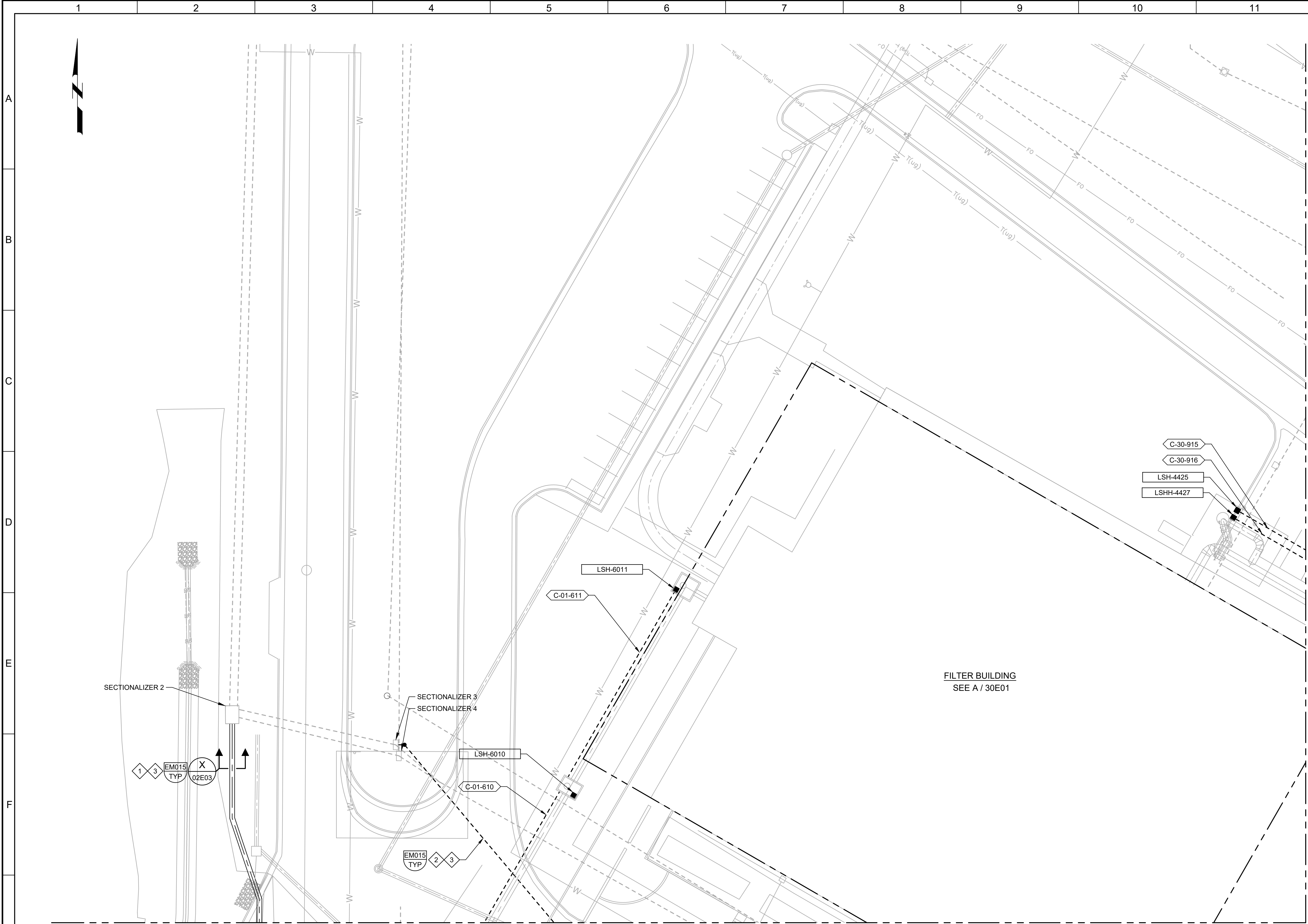


JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
ENLARGED SITE PLAN 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10
DRAWING NO.
01E03
SHEET NO.
290 OF 531

LAST SAVED BY: NKKilian



GENERAL NOTES:

- SEE OVERALL SITE PLAN ON DRAWING 01E01.
- SEE DRAWING 00DE03 FOR DEMOLITION IN THIS AREA.
- PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP FOR ALL 4-WIRE INSTRUMENTS.

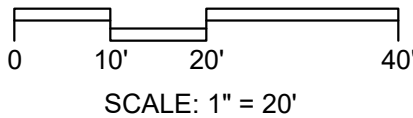
KEY NOTES:

- REROUTE EXISTING 12.47KV SINGLE PHASE CIRCUIT BETWEEN HANDHOLE AND SECTIONALIZER 4 FOR THE CELL TOWER. REFER TO ONE-LINE DIAGRAM ON DRAWING 03E02 FOR CABLE SIZE. SPLICE IN HANDHOLE AND PROVIDE NEW CABLES TO MATCH EXISTING CABLES.
- INSTALL 5-INCH PVC CONDUIT.
- PROVIDE CONCRETE CAP OVER DUCT BANK AS SHOWN IN THE TYPICAL DETAIL.

Know what's below.
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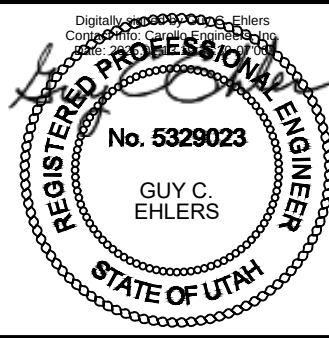
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SCALE



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DATE
FEBRUARY 2025

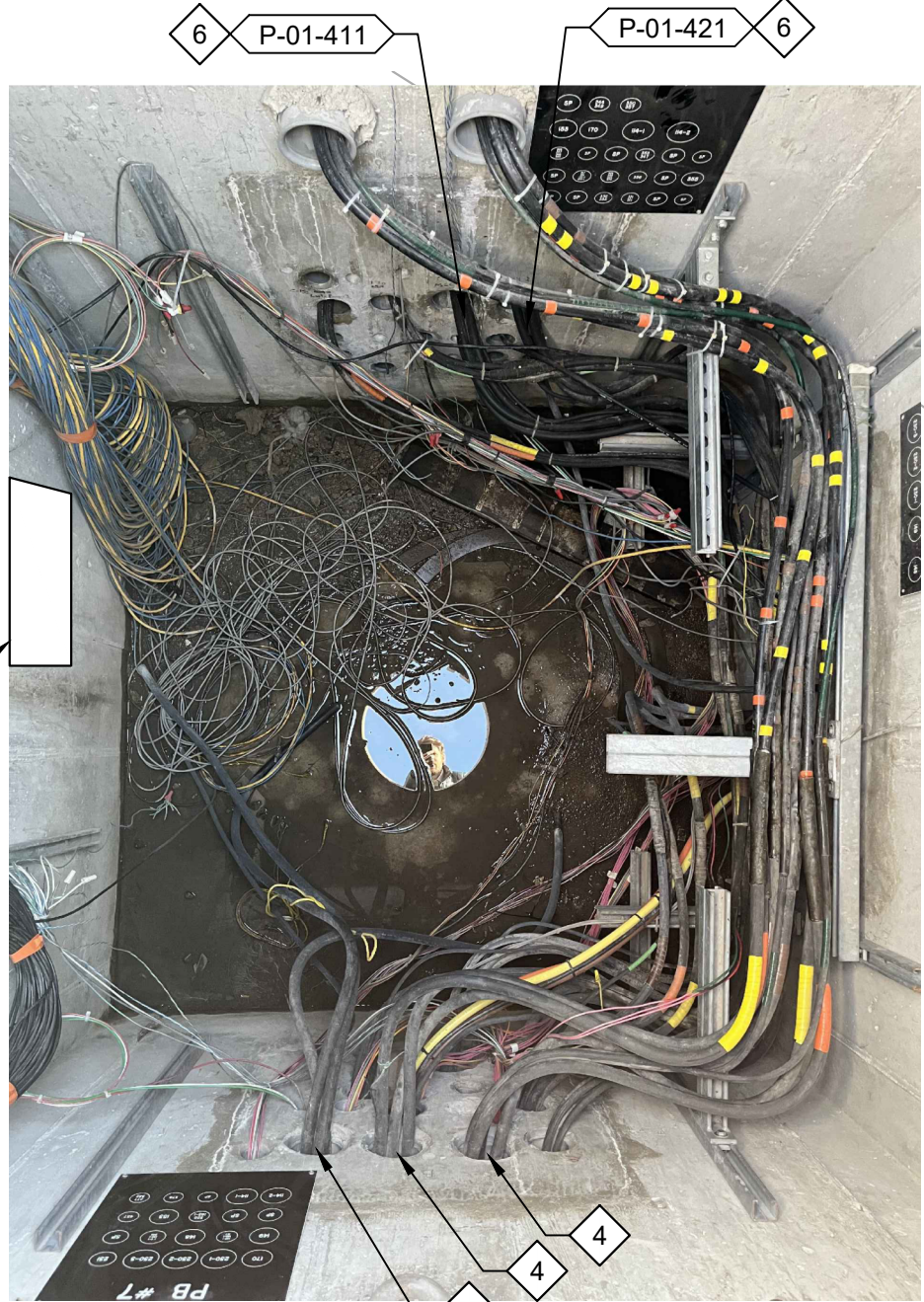
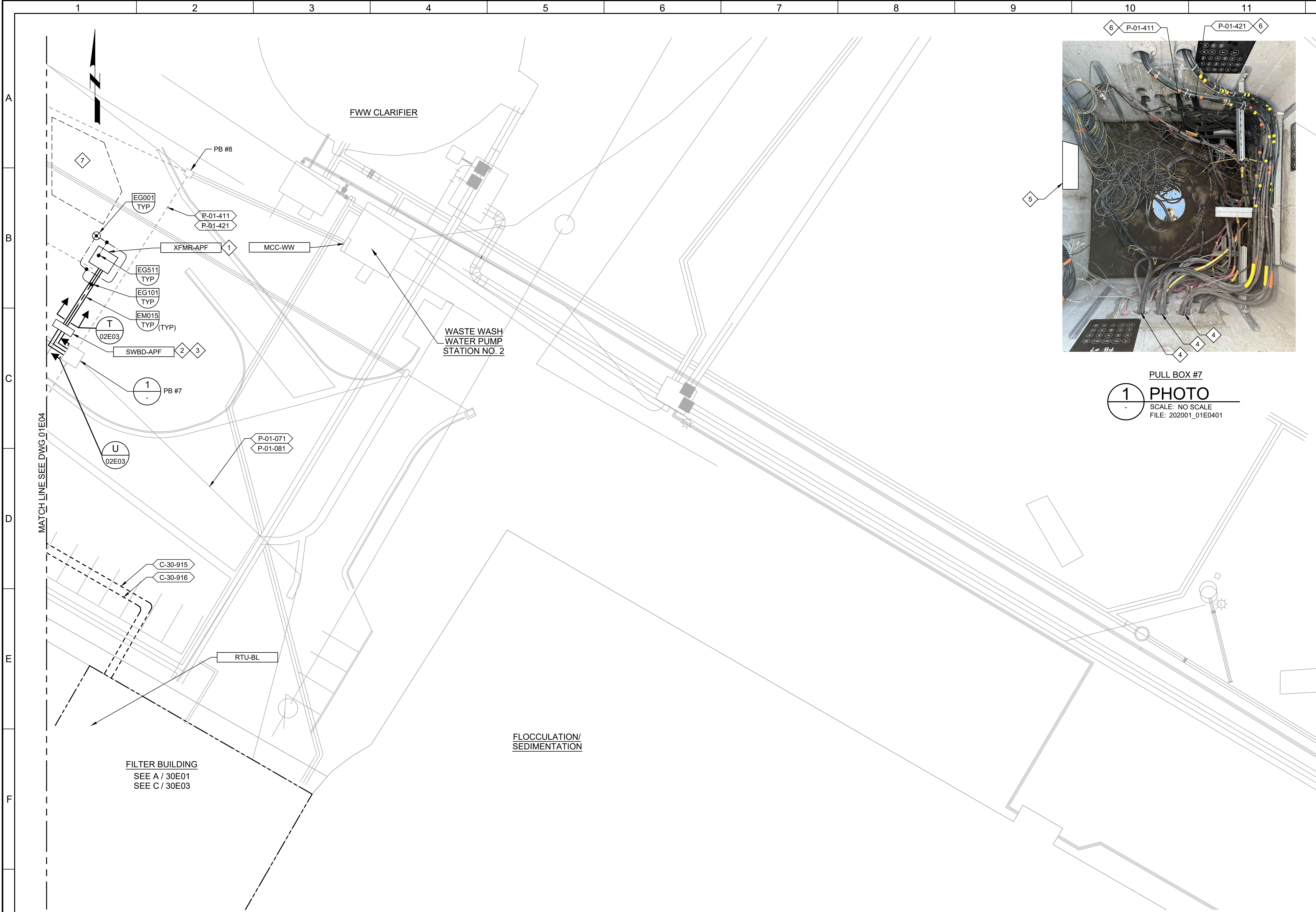


JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
ENLARGED SITE PLAN 4

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10
DRAWING NO.
01E04
SHEET NO.
291 OF 531

LAST SAVED BY: NKKlian



PULL BOX #7
1 PHOTO
SCALE: NO SCALE
FILE: 202001_01E0401

GENERAL NOTES:

1. SEE OVERALL SITE PLAN ON DRAWING 01E01.
2. SEE DRAWING 00DE04 FOR DEMOLITION OF THIS AREA.
3. APF= ALTERNATE PLANT FEED.

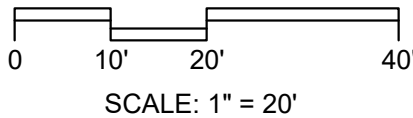
KEY NOTES:

1. PROVIDE NEW CONCRETE TRANSFORMER PAD FOR NEW TRANSFORMER AS SHOWN ON DRAWING 03E02. PROTECT EXISTING UNDERGROUND 12.47KV CIRCUIT IN PLACE.
2. REPLACE EXISTING PORTABLE GENERATOR CONNECTION BOX AS SHOWN ON DRAWINGS 03E01 AND 03E02. SALVAGE EQUIPMENT.
3. INTERCEPT EXISTING CIRCUIT FROM THE UNIT SUBSTATION TO MCC-WW. AND CONNECT THE CIRCUIT FROM THE UNIT SUBSTATION TO NEW MANUAL TRANSFER BREAKER IN THE NEW SWBD-APF AS SHOWN ON DRAWINGS 03E01 AND 03E02. THE CIRCUIT FROM THE UNIT SUBSTATION WILL BECOME THE SECONDARY OR ALTERNATE POWER SOURCE FOR MCC-WW WITH THE PRIMARY POWER SOURCE FROM SWBD-APF.
4. PULL TWO EXISTING SETS OF 500 KCMIL CONDUCTORS FOR THE CIRCUIT TO THE ATS IN THE FILTER BUILDING FOR MCC-A1 FROM PB #7 INTO NEW SWBD-APF. SPLICE ONTO EXISTING THIRD SET OF CONDUCTORS FOR THE ATS IN PB #7 AND CONNECT TO NEW SWBD-APF THROUGH NEW DUCT BANK U. REFER TO KEY NOTE 3 ON DRAWING 01DE04 AND KEY NOTE 10 ON DRAWING 03E02.
5. NEW DUCT BANK U.
6. REUSE EXISTING CONDUIT TO PULL NEW CABLES BETWEEN SWBD-APF AND MCC-WW. EXISTING CABLES MAY BE SPLICED IN PB #7. SPLICED CABLES MUST BE TESTED AND MEET THE SAME TEST REQUIREMENTS AS NEW CABLES.
7. RESERVED FOR PORTABLE GENERATORS.

Know what's below.
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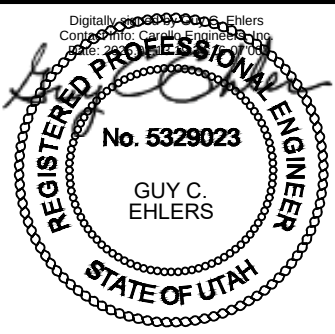
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SCALE



BID SET			
REV	DATE	BY	DESCRIPTION

DESIGNED	SKB
DRAWN	NKK
CHECKED	GCE
DATE	FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
ENLARGED SITE PLAN 5

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

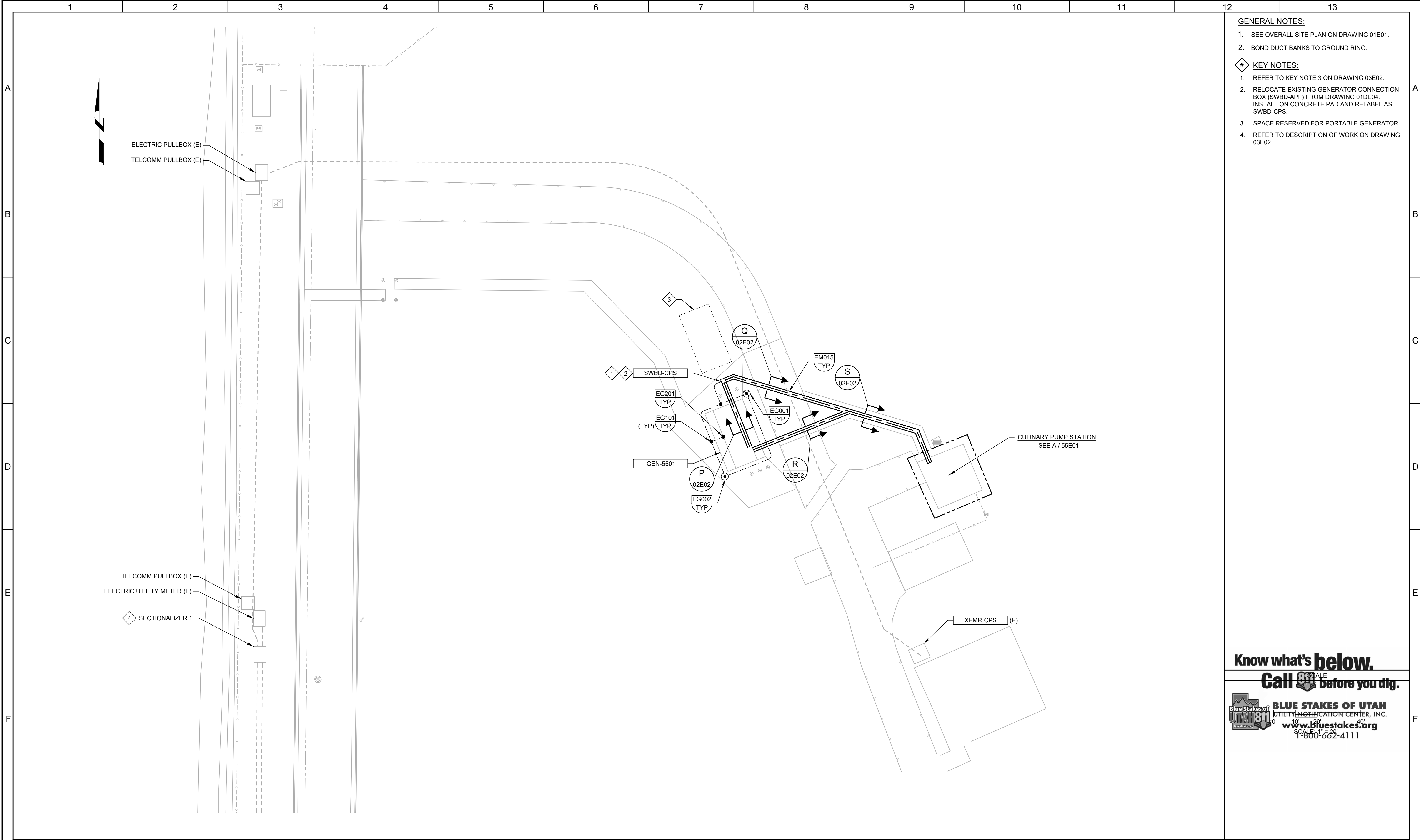
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10

DRAWING NO.
01E05

SHEET NO.
292 OF 531

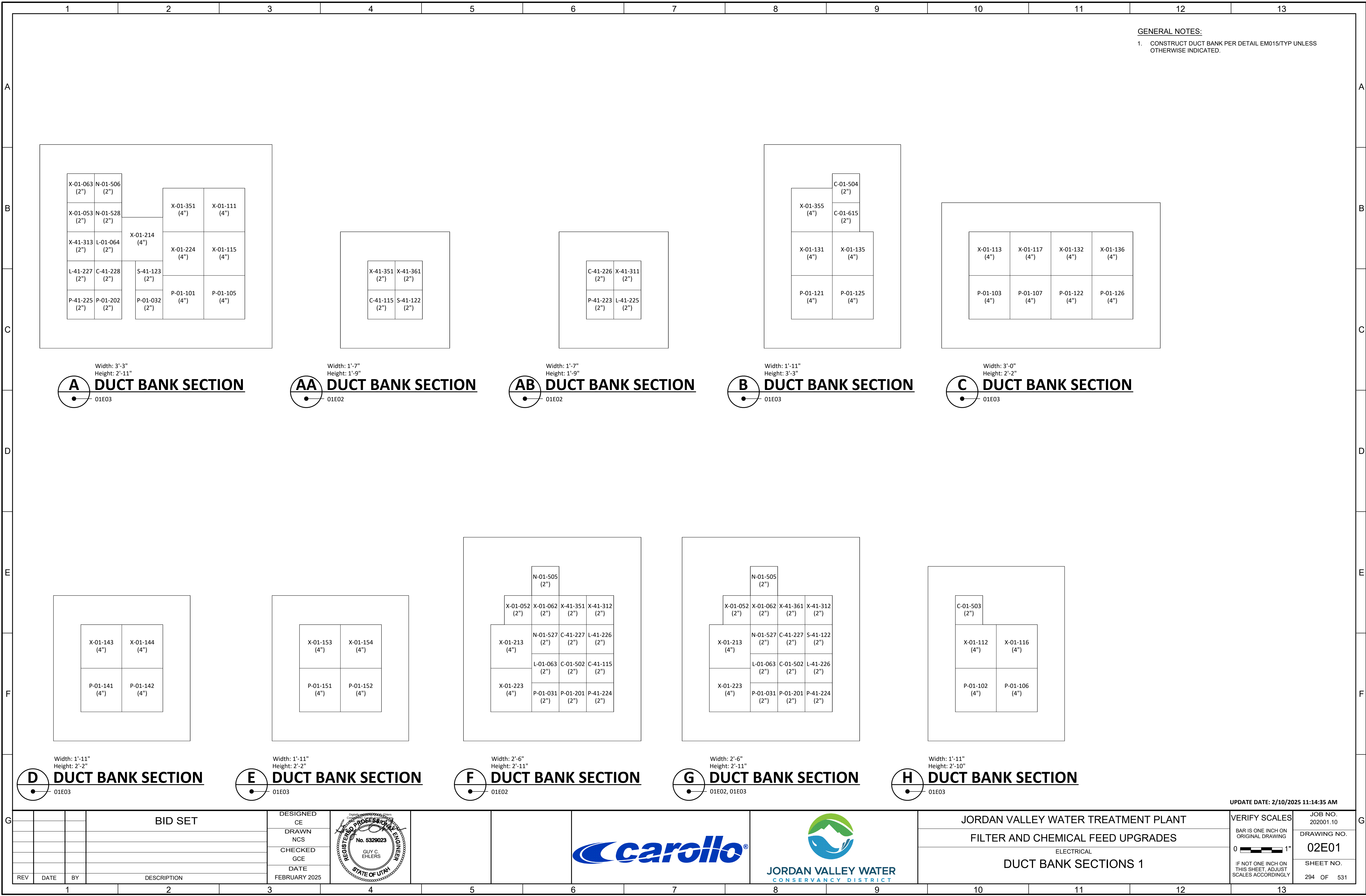


- GENERAL NOTES:**
- SEE OVERALL SITE PLAN ON DRAWING 01E01.
 - BOND DUCT BANKS TO GROUND RING.
- # KEY NOTES:**
- REFER TO KEY NOTE 3 ON DRAWING 03E02.
 - RELOCATE EXISTING GENERATOR CONNECTION BOX (SWBD-APP) FROM DRAWING 01DE04. INSTALL ON CONCRETE PAD AND RELABEL AS SWBD-CPS.
 - SPACE RESERVED FOR PORTABLE GENERATOR.
 - REFER TO DESCRIPTION OF WORK ON DRAWING 03E02.

Know what's below.
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G				BID SET			DESIGNED SKB							JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10	G																			
							DRAWN NKK							FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.																				
							CHECKED GCE							ELECTRICAL			0 1"	01E06																				
							DATE FEBRUARY 2025							ENLARGED SITE PLAN 6			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.																				
	REV	DATE	BY	DESCRIPTION																293 OF 531																		
1			2			3			4			5			6			7			8			9			10			11			12			13		
PROJECT NO.			FILE NAME: 20200101E06.dwg																																			



PROJECT NO. 202001-100000 FILE NAME: 20200102E02.dwg

Plot Date: 9/12/2022 7:29:07 AM

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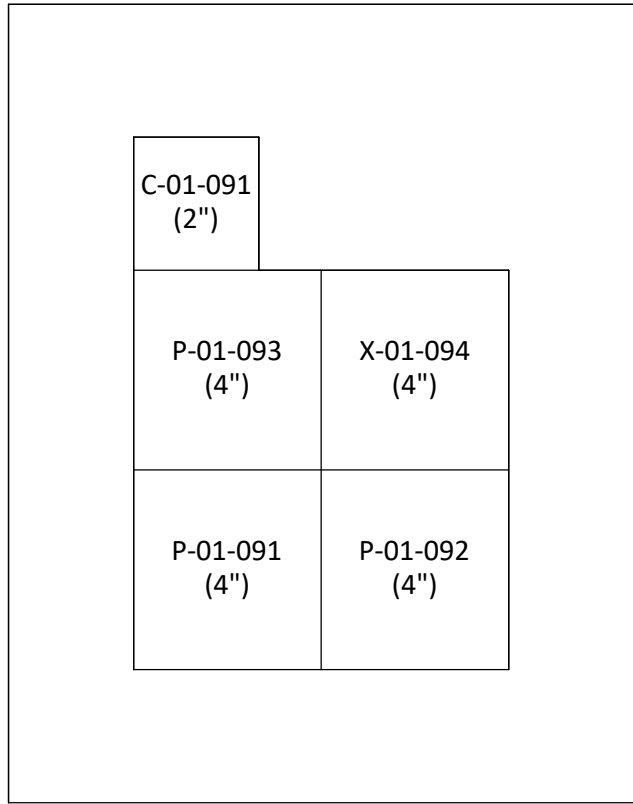
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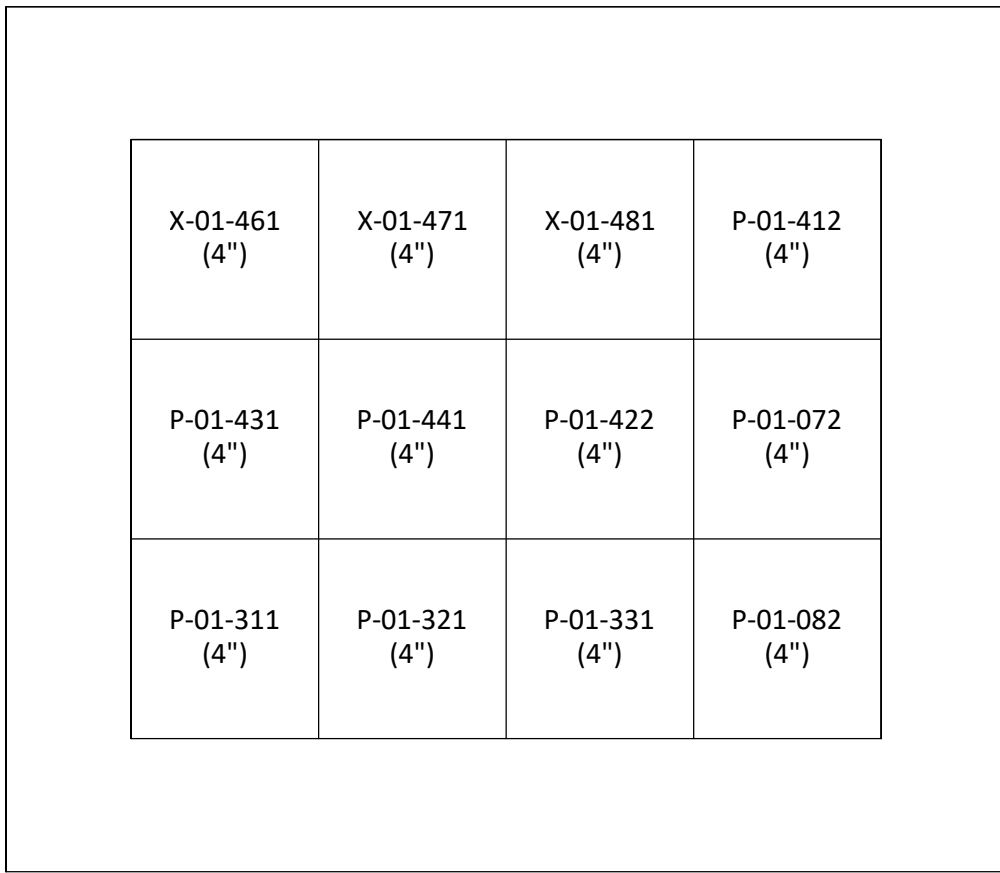
GENERAL NOTES:

1. CONSTRUCT DUCT BANK PER DETAIL EM015/TYP UNLESS OTHERWISE INDICATED.



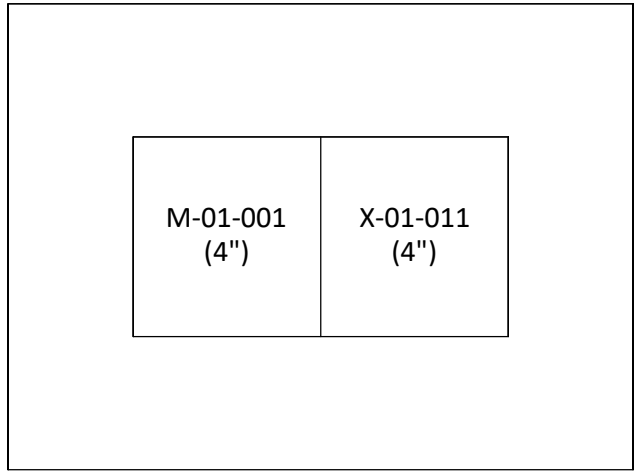
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T DUCT BANK SECTION
01E05



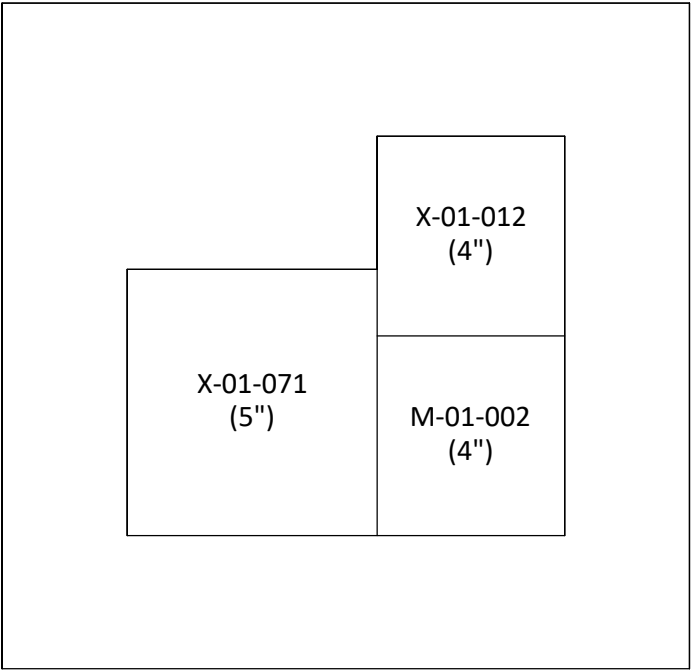
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U DUCT BANK SECTION
01E05



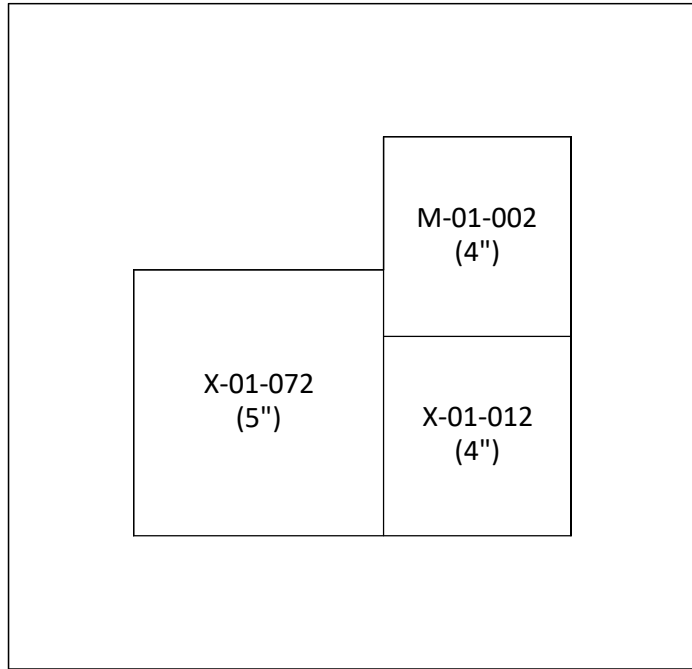
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V DUCT BANK SECTION
01E02



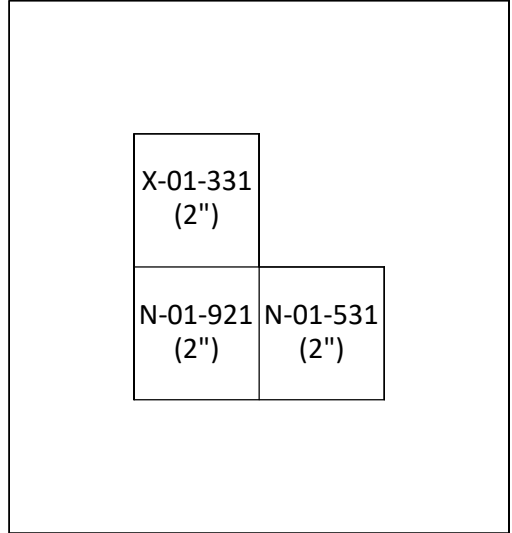
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W DUCT BANK SECTION
01E02, 01E03



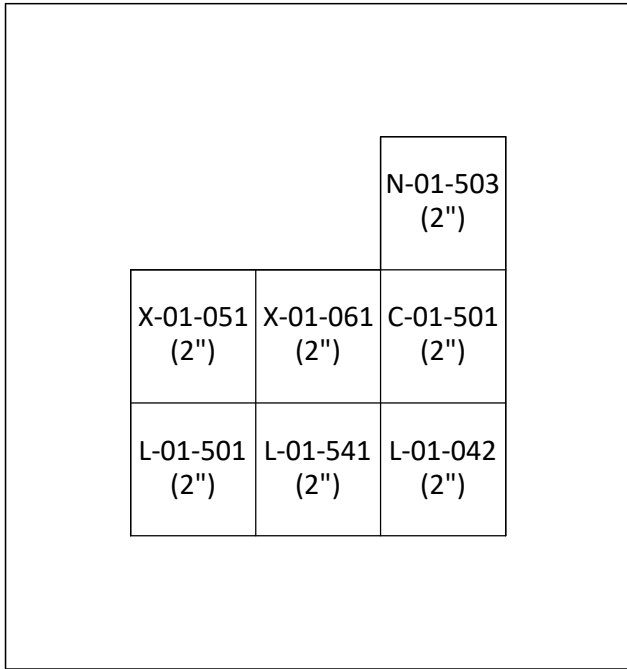
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X DUCT BANK SECTION
01E03, 01E04



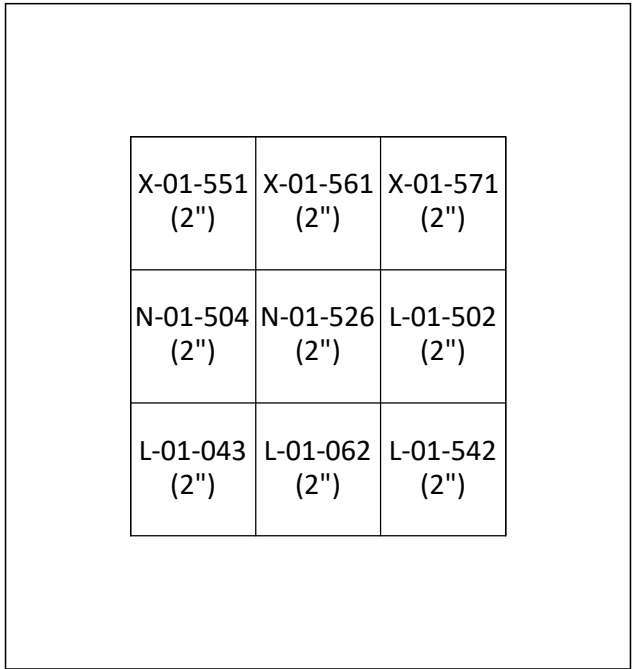
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YY DUCT BANK SECTION
01E03



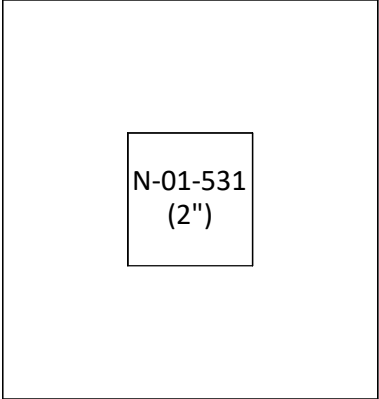
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Z DUCT BANK SECTION
01E02



Width: 1'-11"
Height: 2'-2"

ZA DUCT BANK SECTION
01E02

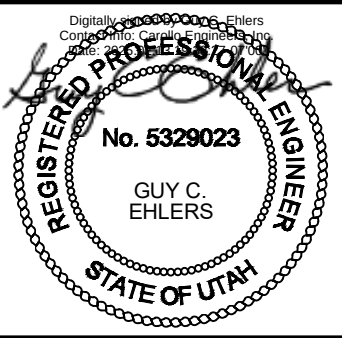


Width: 1'-2"
Height: 1'-5"

ZB DUCT BANK SECTION
01E02, 01E03

REV	DATE	BY	DESCRIPTION

DESIGNED CE
DRAWN NCS
CHECKED GCE
DATE FEBRUARY 2025

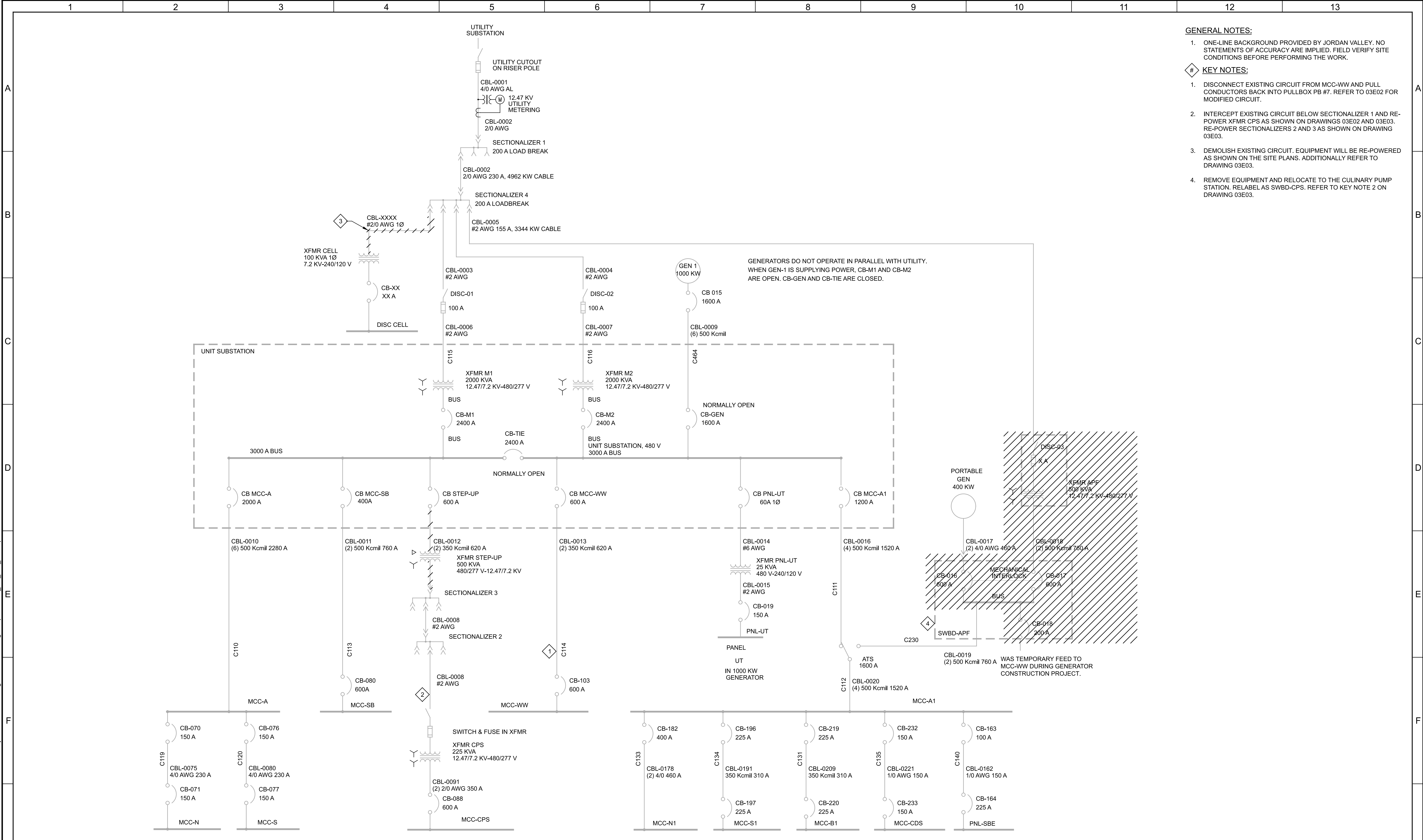


JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
DUCT BANK SECTIONS 3

UPDATE DATE: 2/10/2025 11:14:41 AM

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
--

JOB NO. 202001.10
DRAWING NO. 02E03
SHEET NO. 296 OF 531



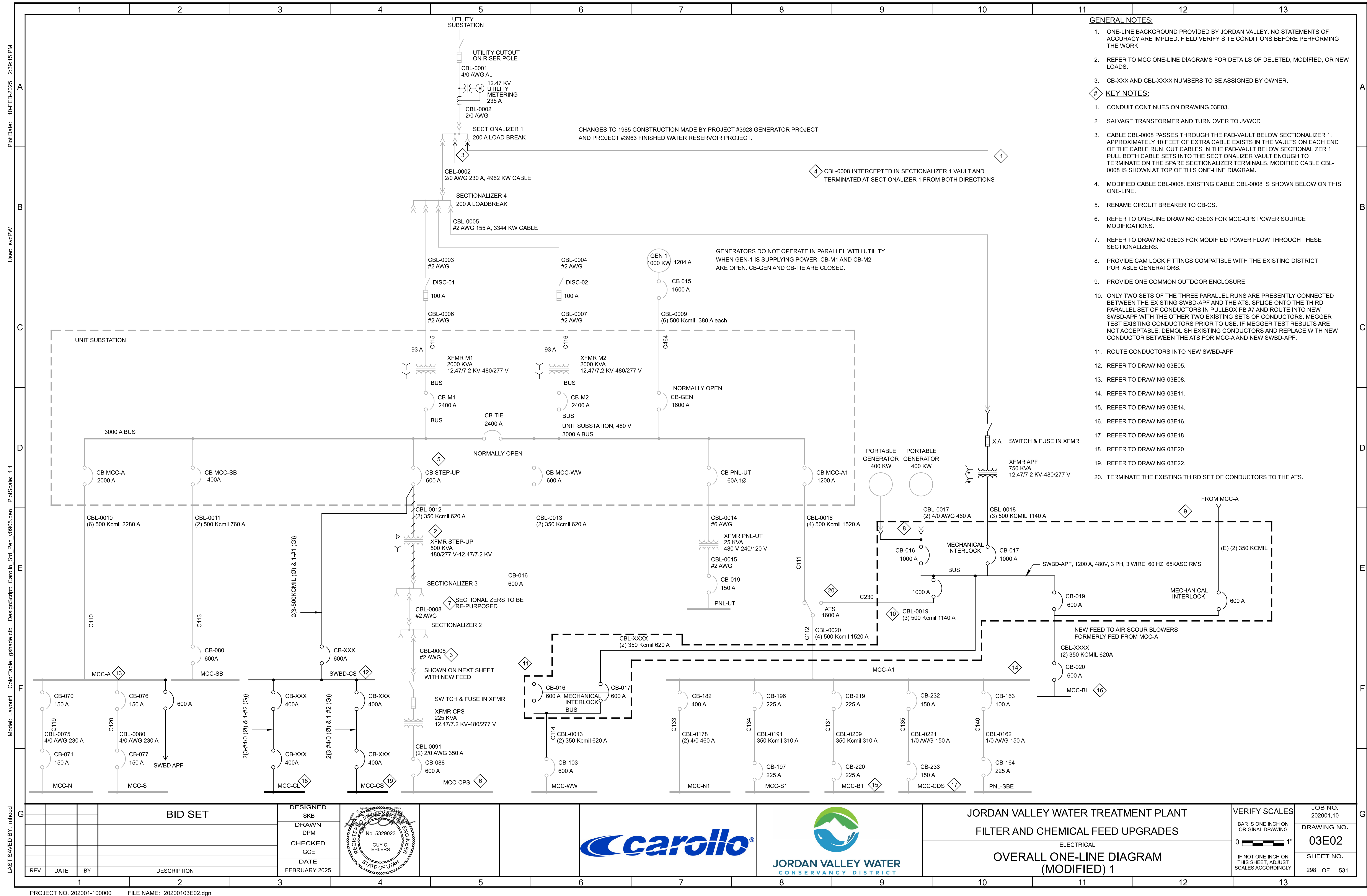
GENERAL NOTES:

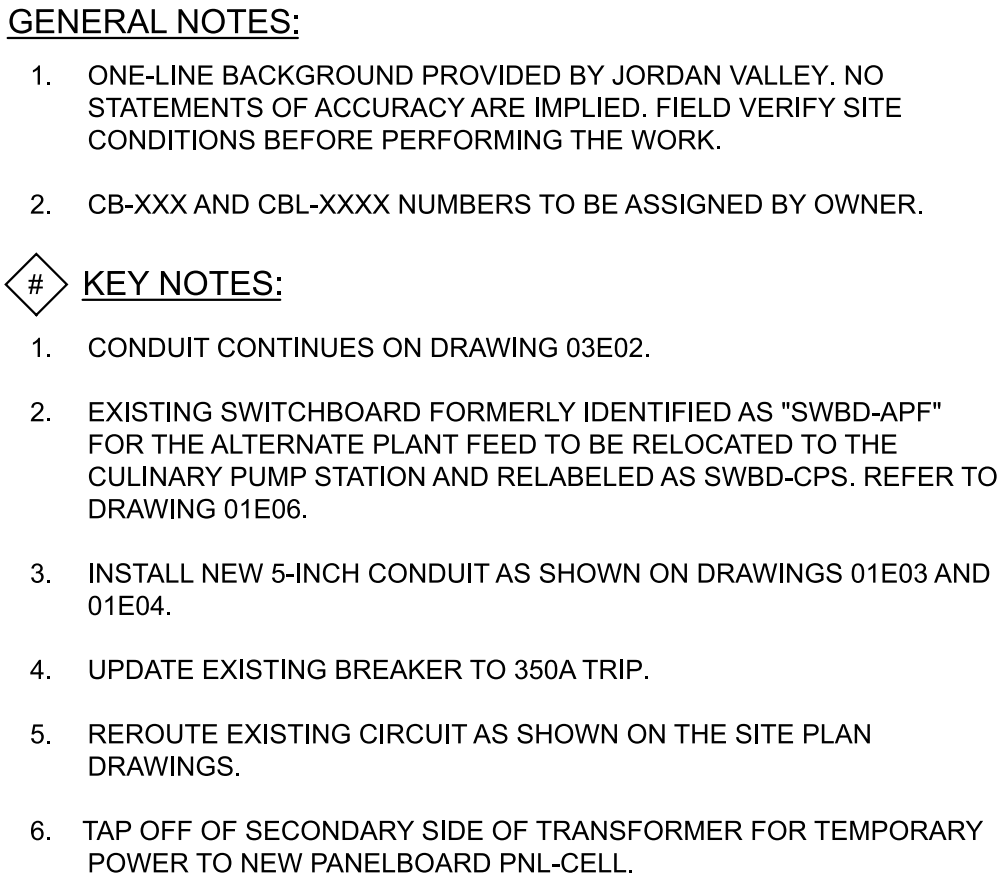
- ONE-LINE BACKGROUND PROVIDED BY JORDAN VALLEY. NO STATEMENTS OF ACCURACY ARE IMPLIED. FIELD VERIFY SITE CONDITIONS BEFORE PERFORMING THE WORK.

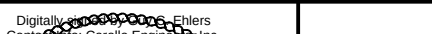
KEY NOTES:

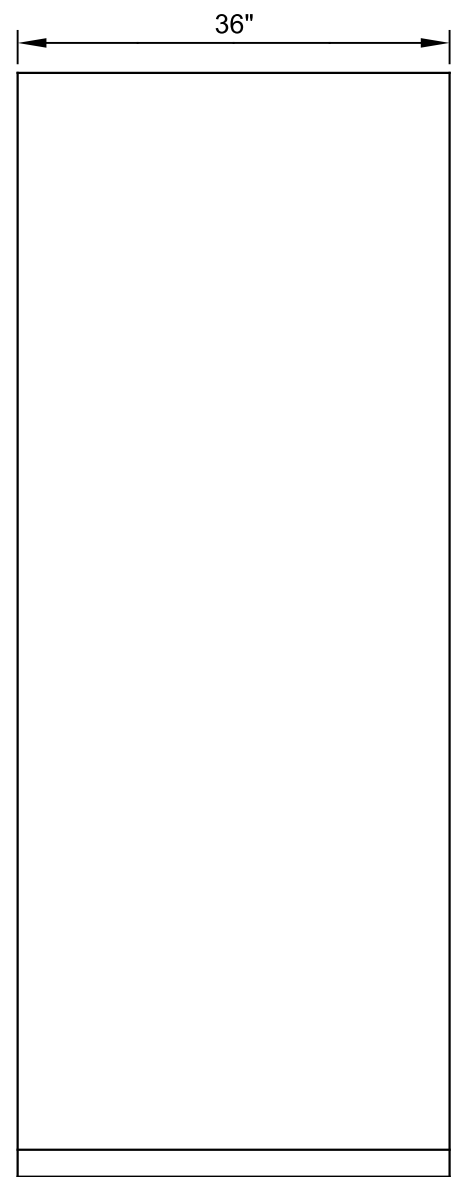
- DISCONNECT EXISTING CIRCUIT FROM MCC-WW AND PULL CONDUCTORS BACK INTO PULLBOX PB #7. REFER TO 03E02 FOR MODIFIED CIRCUIT.
- INTERCEPT EXISTING CIRCUIT BELOW SECTIONALIZER 1 AND RE-POWER XFMR CPS AS SHOWN ON DRAWINGS 03E02 AND 03E03. RE-POWER SECTIONALIZERS 2 AND 3 AS SHOWN ON DRAWING 03E03.
- DEMOLISH EXISTING CIRCUIT. EQUIPMENT WILL BE RE-POWERED AS SHOWN ON THE SITE PLANS. ADDITIONALLY REFER TO DRAWING 03E03.
- REMOVE EQUIPMENT AND RELOCATE TO THE CULINARY PUMP STATION. RELABEL AS SWBD-CPS. REFER TO KEY NOTE 2 ON DRAWING 03E03.

BID SET				DESIGNED SKB								JORDAN VALLEY WATER TREATMENT PLANT		VERIFY SCALES	JOB NO. 202001.10
				DRAWN DPM								FILTER AND CHEMICAL FEED UPGRADES		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE								ELECTRICAL		0 1"	03E01
				DATE FEBRUARY 2025								OVERALL ONE-LINE DIAGRAM (EXISTING)		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	BY	DESCRIPTION												297 OF 531





BID SET				DESIGNED SKB				JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
				DRAWN DPM				FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE				ELECTRICAL	0  1"	03E03
				DATE FEBRUARY 2025				OVERALL ONE-LINE DIAGRAM (MODIFIED) 2	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 299 OF 531
REV	DATE	BY	DESCRIPTION							



GENERAL NOTES:

1. PROVIDE NEMA 3R ENCLOSURE.

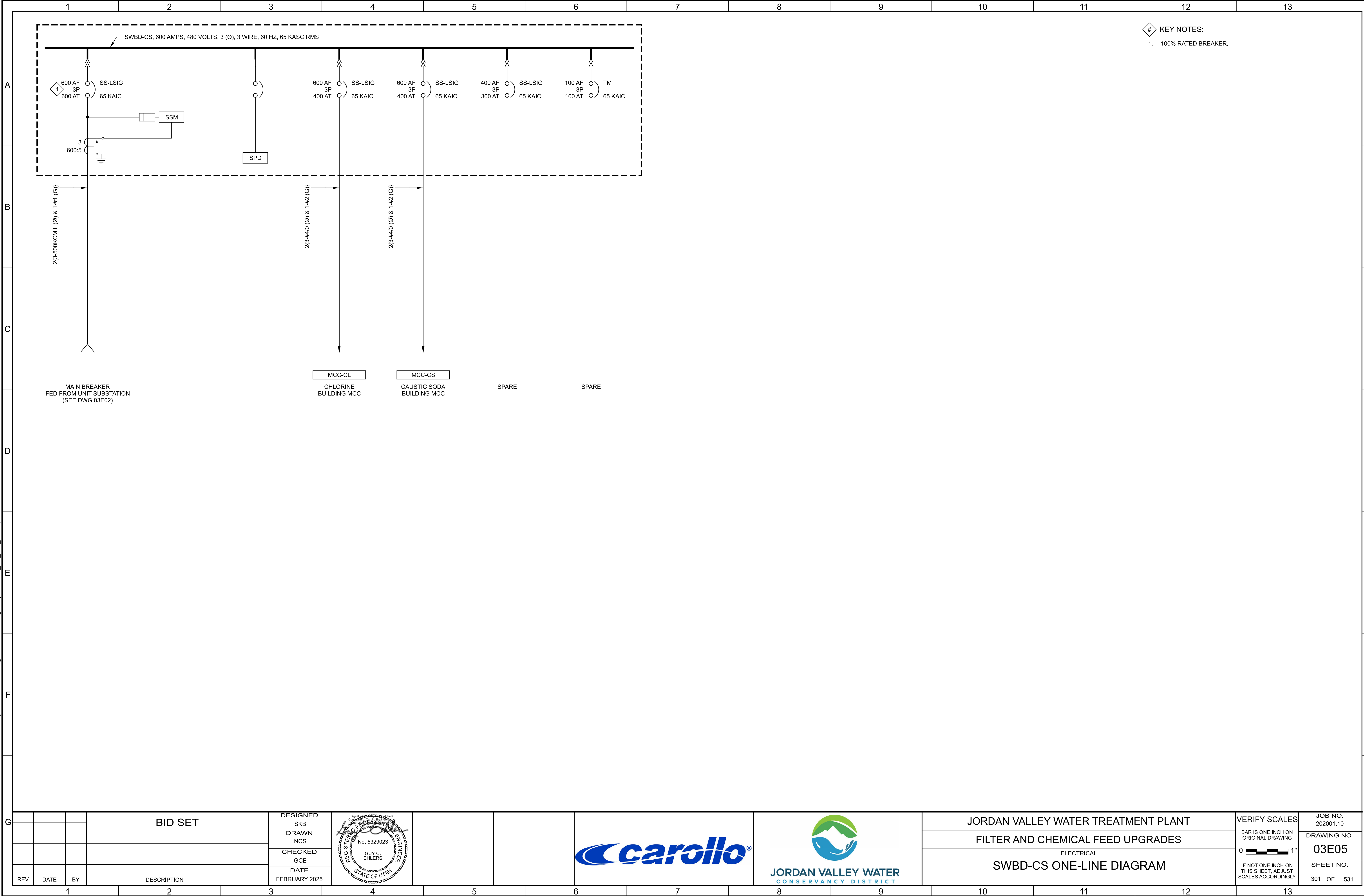
SIDE VIEW

SCALE: 3/4"=1'-0"
FILE: 20200103E0621

1A- SPD	2A- MCC-CL CHLORINE BUILDING MCC	3A- SPARE BREAKER
1B- POWER METER	2C- MCC-CS CAUSTIC SODA BUILDING MCC	3C- SPARE BREAKER
1C- MAIN BREAKER		

			BID SET	DESIGNED SKB					JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
				DRAWN NCS					BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
				CHECKED GCE					0  1"	03E04	
REV	DATE	BY		DESCRIPTION					DATE FEBRUARY 2025	ELECTRICAL	SHEET NO.
									FILTER AND CHEMICAL FEED UPGRADES	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	300 OF 531
									SWBD-CS ELEVATION		

Plot Date: 10-FEB-2025 2:38:58 PM User: svcPW Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1 LAST SAVED BY: CROLLINS



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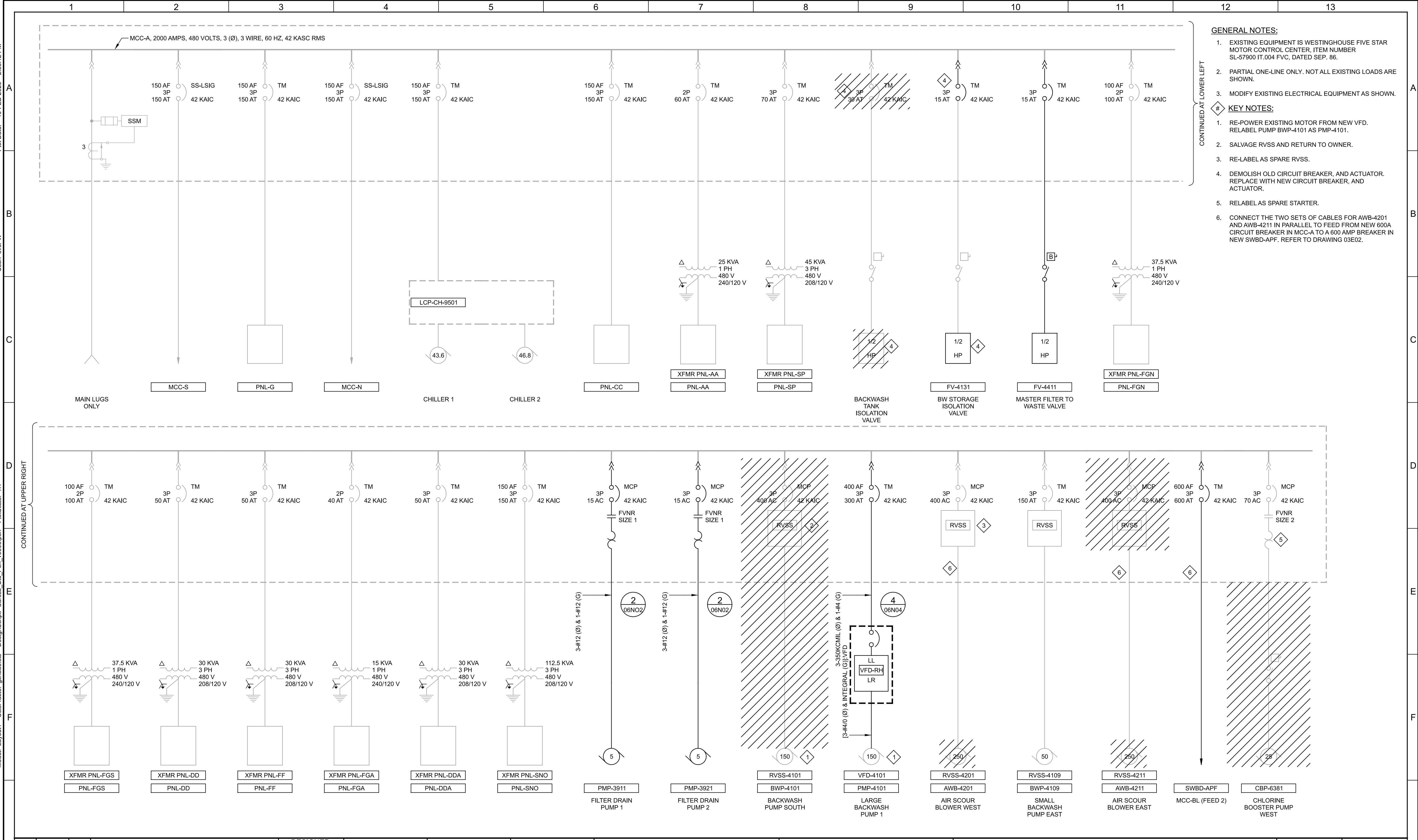
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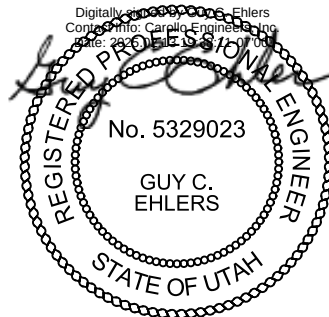
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LAST SAVED BY: mhood



BID SET				DESIGNED SKB								JORDAN VALLEY WATER TREATMENT PLANT		VERIFY SCALES	JOB NO. 202001.10
				DRAWN NCS								FILTER AND CHEMICAL FEED UPGRADES		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE								ELECTRICAL		0 1"	03E08
				DATE FEBRUARY 2025								MCC-A PARTIAL ONE-LINE DIAGRAM		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	BY	DESCRIPTION												304 OF 531
1															
2															
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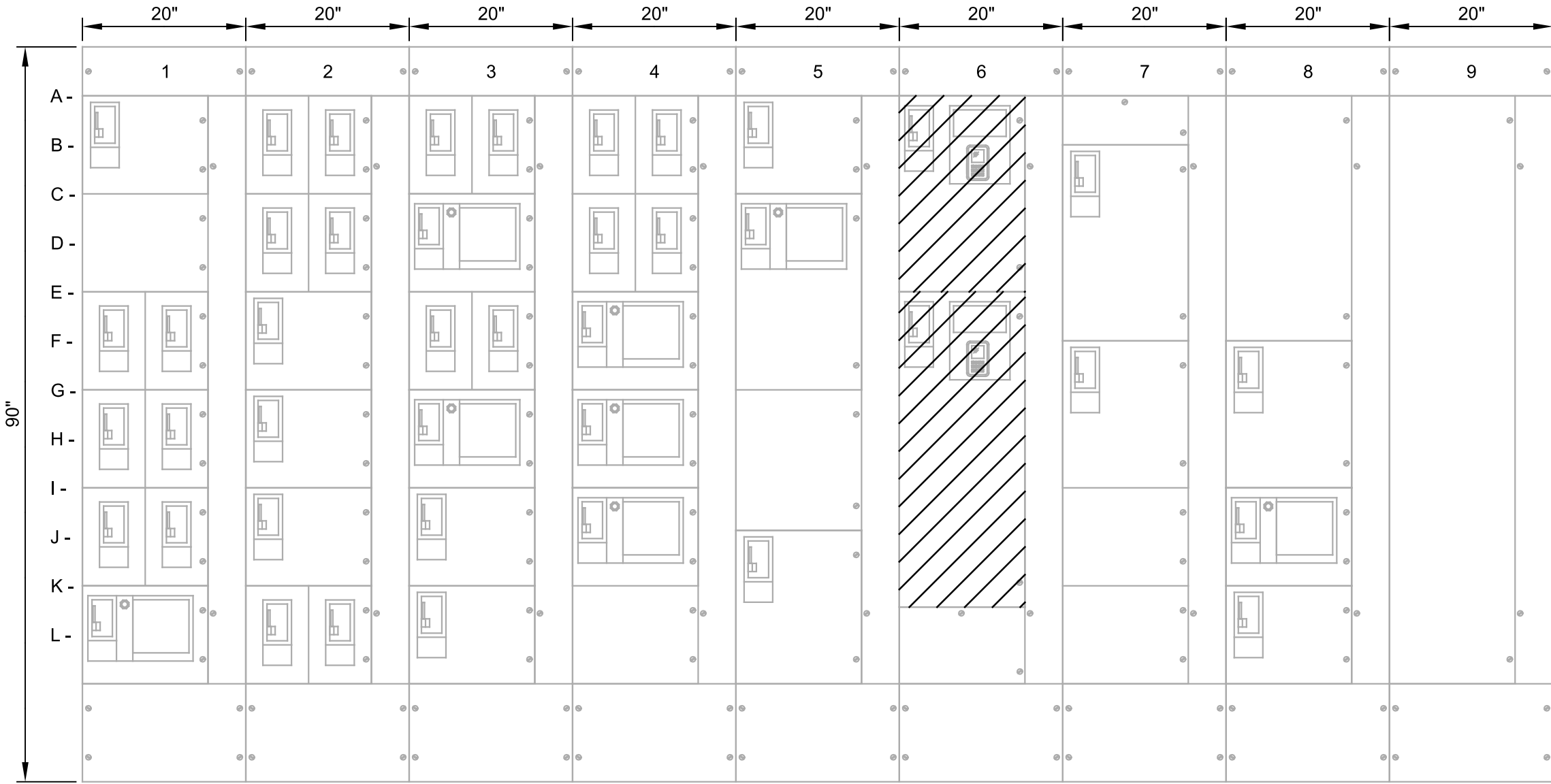
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LAST SAVED BY: mhood



FRONT VIEW

SCALE: 3/4"=1'-0"
FILE: 20200103E0623

- | | | | | | | | | |
|-----------------------------|----------------------------|-------------------------------|---|--|---|------------------------------|--------------------------------|------------------|
| 1A- TIE CIRCUIT TO MCC-A | 2AL- PP-1 FILTERS 7 AND 8 | 3AL- PP-6 FILTERS 1 AND 2 | 4AL- PP-8 FILTERS 5 AND 6 | 5A- US WEST CELL SITE | 6A- BWP-4106 SMALL BACKWASH PUMP WEST | 7A- SPACE | 8A- MAIN INCOMING AND METERING | 9A- PULL SECTION |
| | 2AR- PP-2 FILTERS 9 AND 10 | 3AR- PP-7 FILTERS 3 AND 4 | 4AR- POWER PANEL P-10 IN IOB (OUT OF SERVICE) | | | | | |
| 1C- SPACE | 2CL- XFMR PNL-EA PNL-EA | 3C- SPARE STARTER | 4CL- LCP-AIR-COMP | 5C- CBP-6282 CHLORINE BOOSTER PUMP EAST | 6E- BWP-4102 LARGE BACKWASH PUMP NORTH | 7B- MCC-N1 | 8F- MCC-S1 | |
| | 2CR- XFMR PNL-EC PNL-EC | | 4CR- XFMR PNL-FGE-B PNL-FGE-B | | | | | |
| 1EL- PP-3 FILTERS 11 AND 12 | 2E- AREA LIGHTING | 3EL- SPARE BREAKER | 4E- SPARE STARTER | 5G- SPACE | 6K- 25 KVAR CAPACITOR FOR 6K | 7F- MCC-B1 | 8I- SPARE STARTER | |
| 1ER- PP-4 FILTERS 13 AND 14 | | 3ER- SPARE BREAKER | | | | | | |
| 1GL- PP-5 FILTERS 15 AND 16 | 2G- MCC-CDS | 3G- SPARE STARTER | 4G- PMP-A19 HEATING SYSTEM PUMP | 5J- PNL-IVS-P INTERCONNECT VALVE STRUCTURE | | 7I- 20 KVAR CAPACITOR FOR 5K | 8L- PNL-SBE SCREEN BUILDING | |
| 1GR- XFMR-PNL-FGE PNL-FGE | | | | | | | | |
| 1IL- LCP-CTP-6803 | 2I- SPARE BREAKER | 3I- VCP-LCP-BOILER LCP-BOILER | 4I- PMP-A16 AC HEATING COIL PUMP | | | 7K- 15 KVAR CAPACITOR FOR 6D | | |
| 1IR- LCP-CTP-6804 | | | | | | | | |
| 1K- SPARE STARTER | 2KL- PNL-DP-CSS | 3K- LCP-ELEVATOR | 4K- 18 KVAR CAPACITOR FOR 5E | | | | | |
| | 2KR- PNL-DP-FS | | | | | | | |



PHOTO

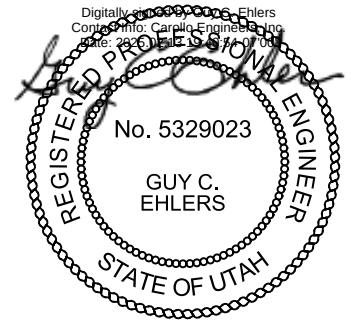
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FILE: 20200103E0401

GENERAL NOTES:

- EXISTING EQUIPMENT IS WESTINGHOUSE FIVE STAR MOTOR CONTROL CENTER, ITEM NUMBER SL-57700 IT.005 FVC, DATED SEP. 86.

BID SET			
REV	DATE	BY	DESCRIPTION

DESIGNED SKB
DRAWN NCS
CHECKED GCE
DATE FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
MCC-A1 ELEVATION - DEMOLITION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202001.10
DRAWING NO. 03E09
SHEET NO. 305 OF 531

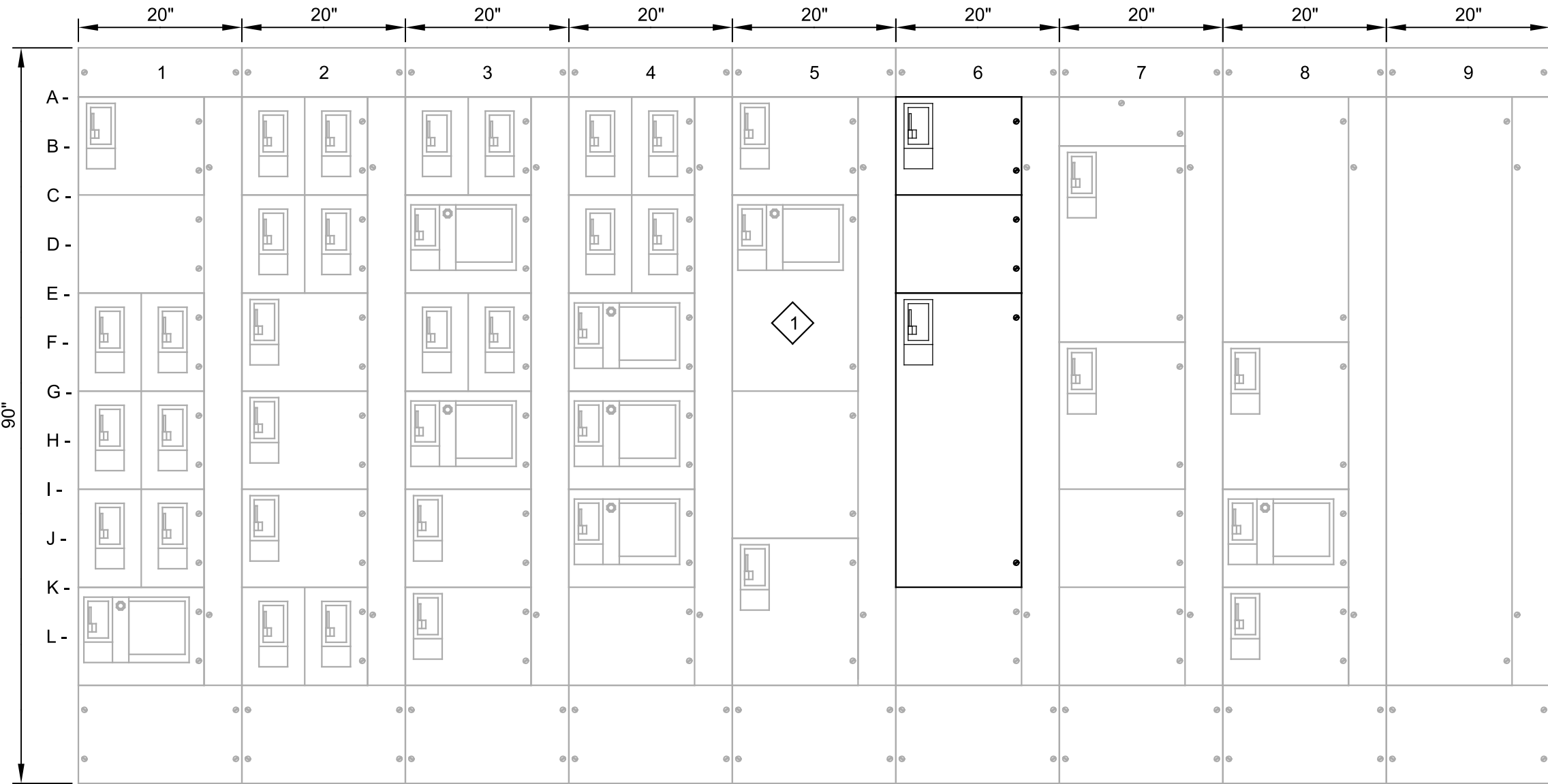
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User: svcPW

PlotScale: 1:1

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LAST SAVED BY: mhood



FRONT VIEW

SCALE: 3/4"=1'-0"
FILE:20200103E0623



PHOTO

SCALE: NO SCALE
FILE: 20200103E0402

GENERAL NOTES:

1. EXISTING EQUIPMENT IS WESTINGHOUSE FIVE STAR MOTOR CONTROL CENTER, ITEM NUMBER SL-57700 IT.005 FVC, DATED SEP. 86.

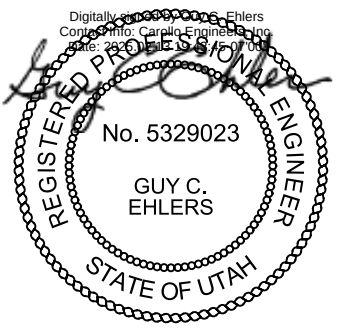
KEY NOTES:

1. PROVIDE NEW NAMEPLATE AND LABEL AS SPARE.

1A- TIE CIRCUIT TO MCC-A	2AL- PP-1 FILTERS 7 AND 8	3AL- PP-6 FILTERS 1 AND 2	4AL- PP-8 FILTERS 5 AND 6	5A- US WEST CELL SITE	6A- PMP-4104 SMALL BACKWASH PUMP 2	7A- SPACE	8A- MAIN INCOMING AND METERING	9A- PULL SECTION
	2AR- PP-2 FILTERS 9 AND 10	3AR- PP-7 FILTERS 3 AND 4	4AR- POWER PANEL P-10 IN IOB (OUT OF SERVICE)					
1C- SPACE	2CL- XFMR PNL-EA PNL-EA	3C- SPARE STARTER	4CL- LCP-AIR-COMP	5C- SPARE STARTER	6C- SPACE	7B- MCC-N1	8F- MCC-S1	
	2CR- XFMR PNL-EC PNL-EC		4CR- XFMR PNL-FGE-B PNL-FGE-B					
1EL- PP-3 FILTERS 11 AND 12	2E- AREA LIGHTING	3EL- SPARE BREAKER	4E- SPARE STARTER	5G- SPACE	6E- PMP-4102 LARGE BACKWASH PUMP 2	7F- MCC-B1	8I- SPARE STARTER	
1ER- PP-4 FILTERS 13 AND 14		3ER- SPARE BREAKER						
1GL- PP-5 FILTERS 15 AND 16	2G- MCC-CDS	3G- SPARE STARTER	4G- PMP-A19 HEATING SYSTEM PUMP	5J- PNL-IVS-P INTERCONNECT VALVE STRUCTURE	6K- 25 KVAR CAPACITOR FOR 6K	7I- 20 KVAR CAPACITOR FOR 5K	8L- PNL-SBE SCREEN BUILDING	
1GR- XFMR-PNL-FGE PNL-FGE								
1IL- LCP-CTP-6803	2I- SPARE BREAKER	3I- VCP-LCP-BOILER LCP-BOILER	4I- PMP-A16 AC HEATING COIL PUMP			7K- 15 KVAR CAPACITOR FOR 6D		
1IR- LCP-CTP-6804								
1K- SPARE STARTER	2KL- PNL-DP-CSS	3K- LCP-ELEVATOR	4K- 18 KVAR CAPACITOR FOR 5E					
	2KR- PNL-DP-FS							

BID SET			
REV	DATE	BY	DESCRIPTION

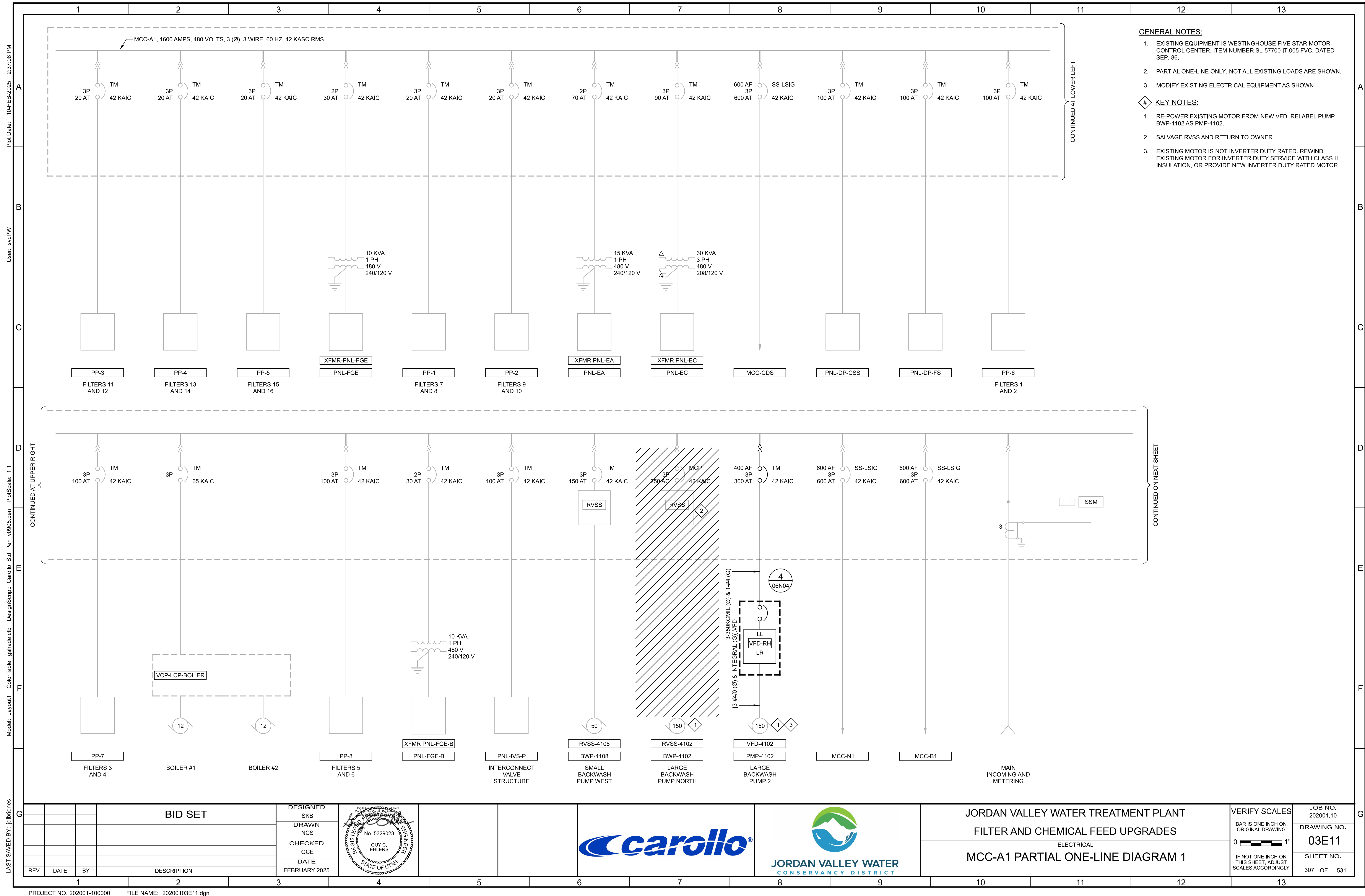
DESIGNED SKB
DRAWN NCS
CHECKED GCE
DATE FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
MCC-A1 ELEVATION - MODIFICATIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202001.10
DRAWING NO. 03E10
SHEET NO. 306 OF 531

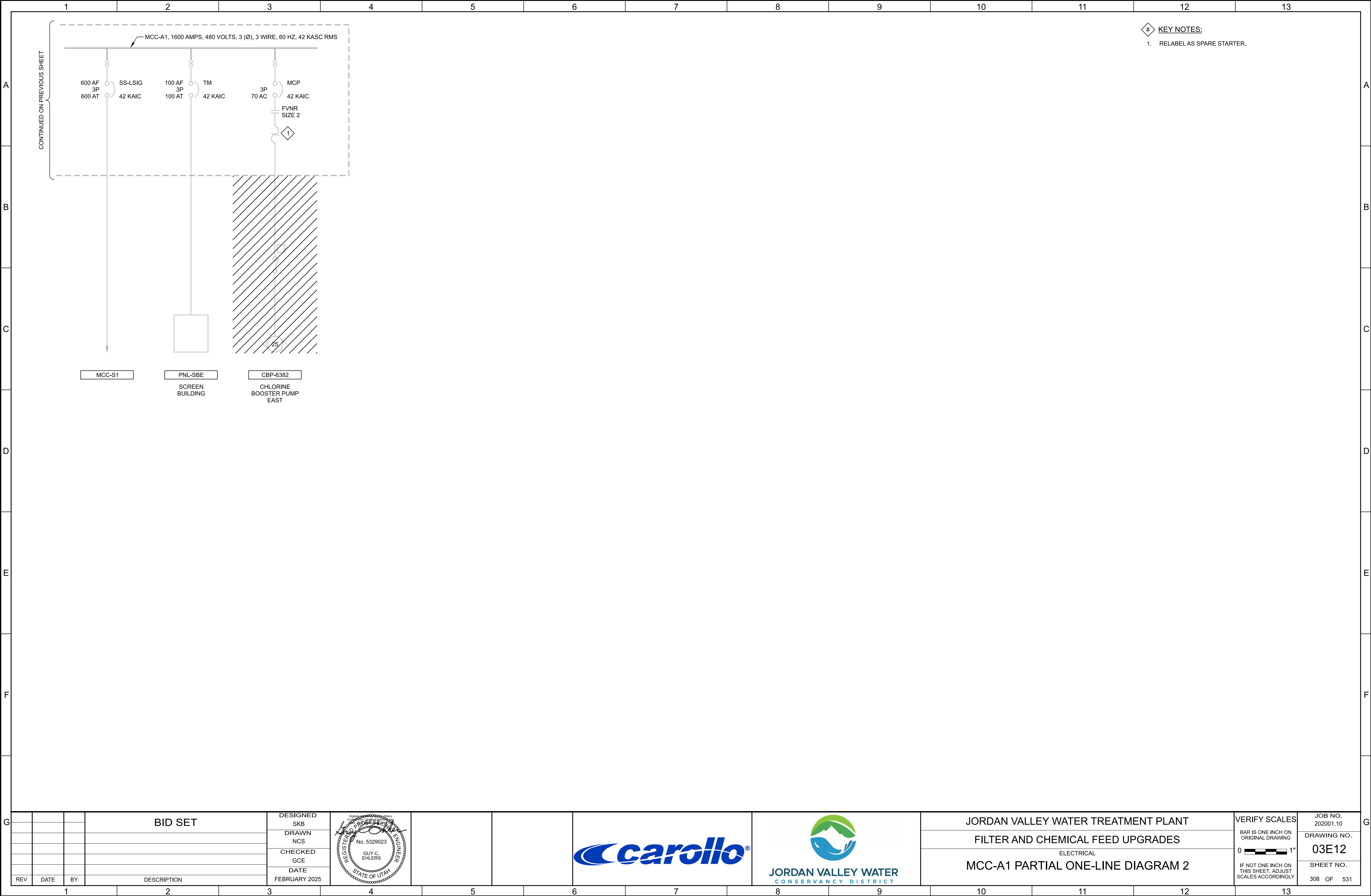


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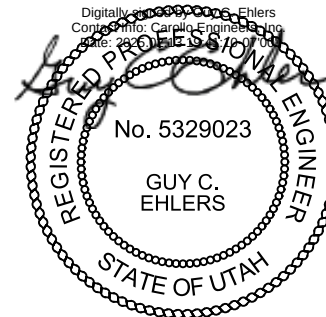
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Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: CROLLINS



- # KEY NOTES:
- RELABEL AS SPARE STARTER.

			BID SET	DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202001.10
				DRAWN NCS		DRAWING NO.						
				CHECKED GCE		03E12						
				DATE FEBRUARY 2025		SHEET NO.						
REV	DATE	BY	DESCRIPTION									

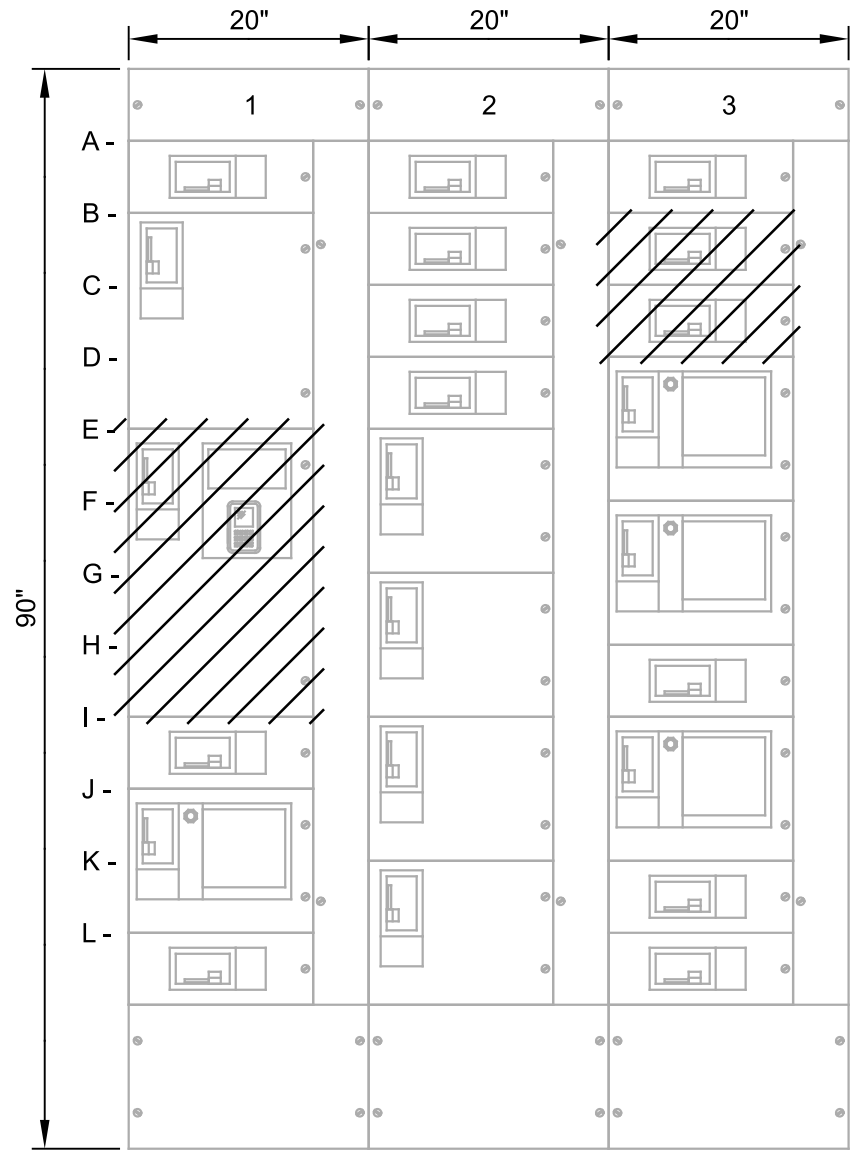
Plot Date: 10-FEB-2025 2:36:45 PM

User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen

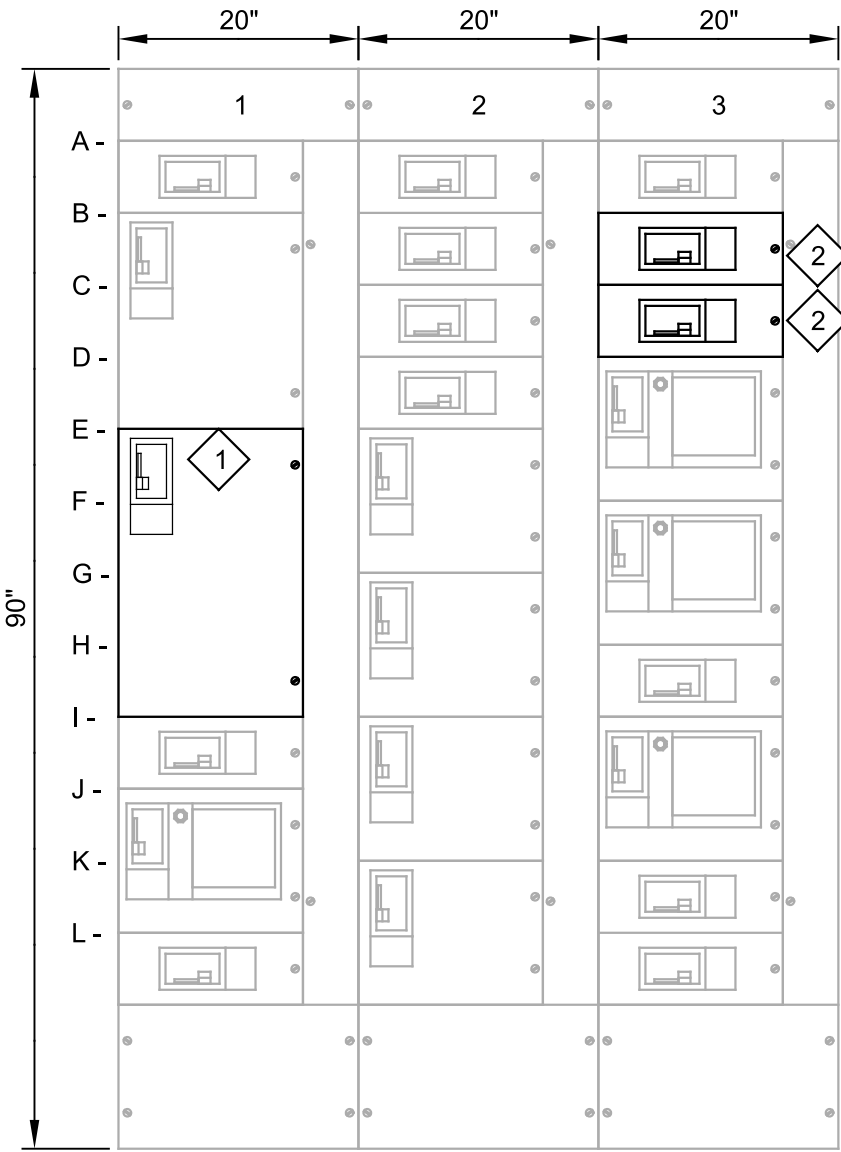
LAST SAVED BY: mhood



FRONT VIEW - EXISTING

SCALE: 3/4"=1'-0"
FILE: 20200103E0629

- | | | |
|--|--|------------------------|
| 1A- DC POWER SUPPLY | 2A- DC POWER SUPPLY | 3A- DC POWER SUPPLY |
| 1B- TVSS | 2B- SPARE | 3B- MX-6601 |
| 1E- BLR-4391 EXISTING CL2 SCRUBBER BLOWER | 2C- ELECTRIC HOIST | 3C- MX-6602 |
| 1I- DC POWER SUPPLY | 2D- BW-4116 MASTER BACKWASH VALVE | 3D- IN-FAN-NORTH |
| 1J- GHWP-1 | 2E- FAN #1 CHLORINE STORAGE | 3F- IN-FAN-SOUTH |
| 1L- MAIN BREAKER | 2G- FAN #2 CHLORINE STORAGE | 3I- GHWP-2 |
| | 2H- FAN #3 CHLORINE STORAGE | 3K- XFMR-PNL-B1 PNL-B1 |
| | 2K- FAN #4 CHLORINE STORAGE | 3L- XFMR-PNL-B2 PNL-B2 |



FRONT VIEW - EXISTING

SCALE: 3/4"=1'-0"
FILE: 20200103E0629

- | | | |
|---------------------|--------------------------------------|---|
| 1A- DC POWER SUPPLY | 2A- DC POWER SUPPLY | 3A- DC POWER SUPPLY |
| 1B- TVSS | 2B- SPARE | 3B- FV-4051 BWS NORTH (ODD) CONTROL VALVE |
| 1E- MCC-PEA | 2C- ELECTRIC HOIST | 3C- FV-4061 BWS SOUTH (EVE) CONTROL VALVE |
| 1I- DC POWER SUPPLY | 2D- FV-4041 MASTER BWS CONTROL VALVE | 3D- IN-FAN-NORTH |
| 1J- GHWP-1 | 2E- FAN #1 CHLORINE STORAGE | 3F- IN-FAN-SOUTH |
| 1L- MAIN BREAKER | 2G- FAN #2 CHLORINE STORAGE | 3I- GHWP-2 |
| | 2H- FAN #3 CHLORINE STORAGE | 3K- XFMR-PNL-B1 PNL-B1 |
| | 2K- FAN #4 CHLORINE STORAGE | 3L- XFMR-PNL-B2 PNL-B2 |

GENERAL NOTES:

- EXISTING EQUIPMENT IS AN EATON CUTLER-HAMMER FREEDOM SERIES 2100 MOTOR CONTROL CENTER, ORDER NUMBER SSL84454, IT.001 - POC, DATED 2/05.

KEY NOTES:

- PROVIDE NEW BUCKET FOR NEW LOAD.
- REPLACE TWO EXISTING 30AMP BREAKERS WITH EATON EGH3015FFG 15AMP BREAKERS.



JORDAN VALLEY WATER TREATMENT PLANT

FILTER AND CHEMICAL FEED UPGRADES

ELECTRICAL

MCC-B1 ELEVATION

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

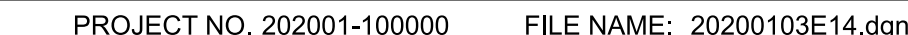
JOB NO.
202001.10

DRAWING NO.

03E13

SHEET NO.

309 OF 531

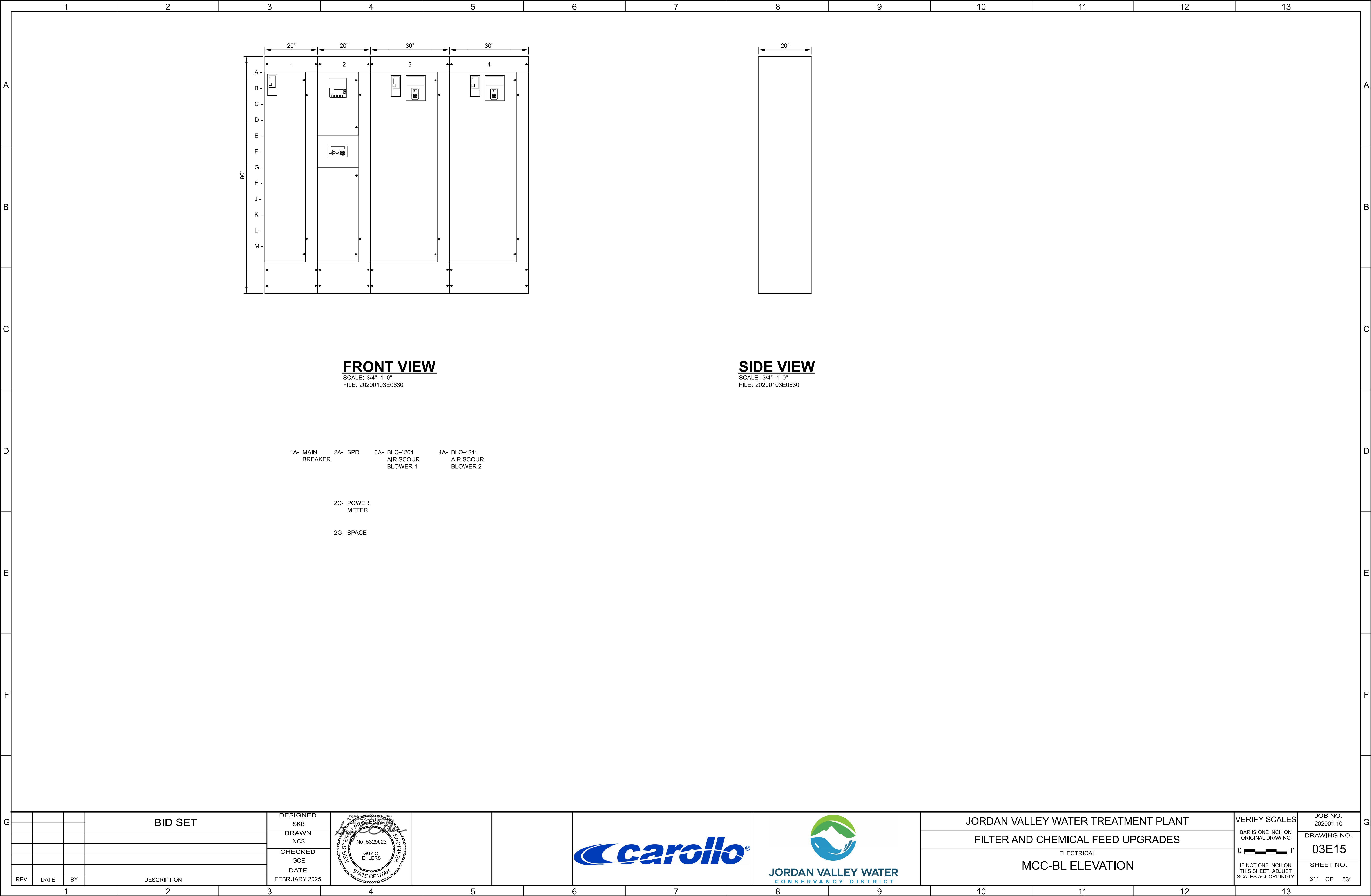


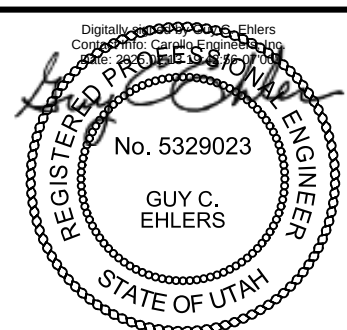
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User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: CROLLINS



G				BID SET	DESIGNED							JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
					DRAWN							FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
					NCS							ELECTRICAL			0  1"	03E15
					CHECKED							MCC-BL ELEVATION			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
					GCE											311 OF 531
	REV	DATE	BY	DESCRIPTION	DATE FEBRUARY 2025											
	1			2	3	4	5	6	7	8	9	10	11	12	13	

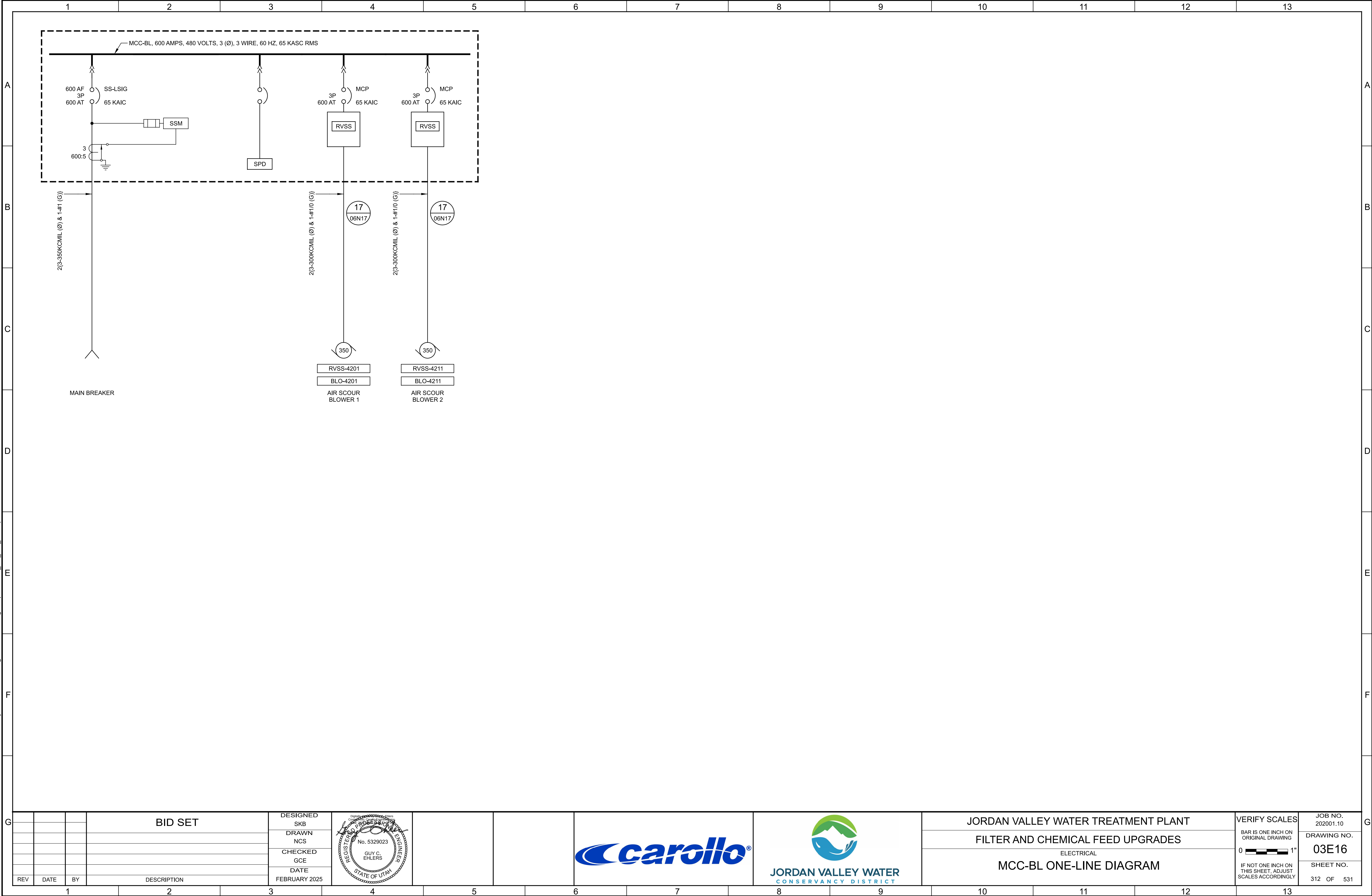
PROJECT NO. 202001-100000 FILE NAME: 20200103E15.dgn

Plot Date: 10-FEB-2025 2:37:49 PM

User: svcPW

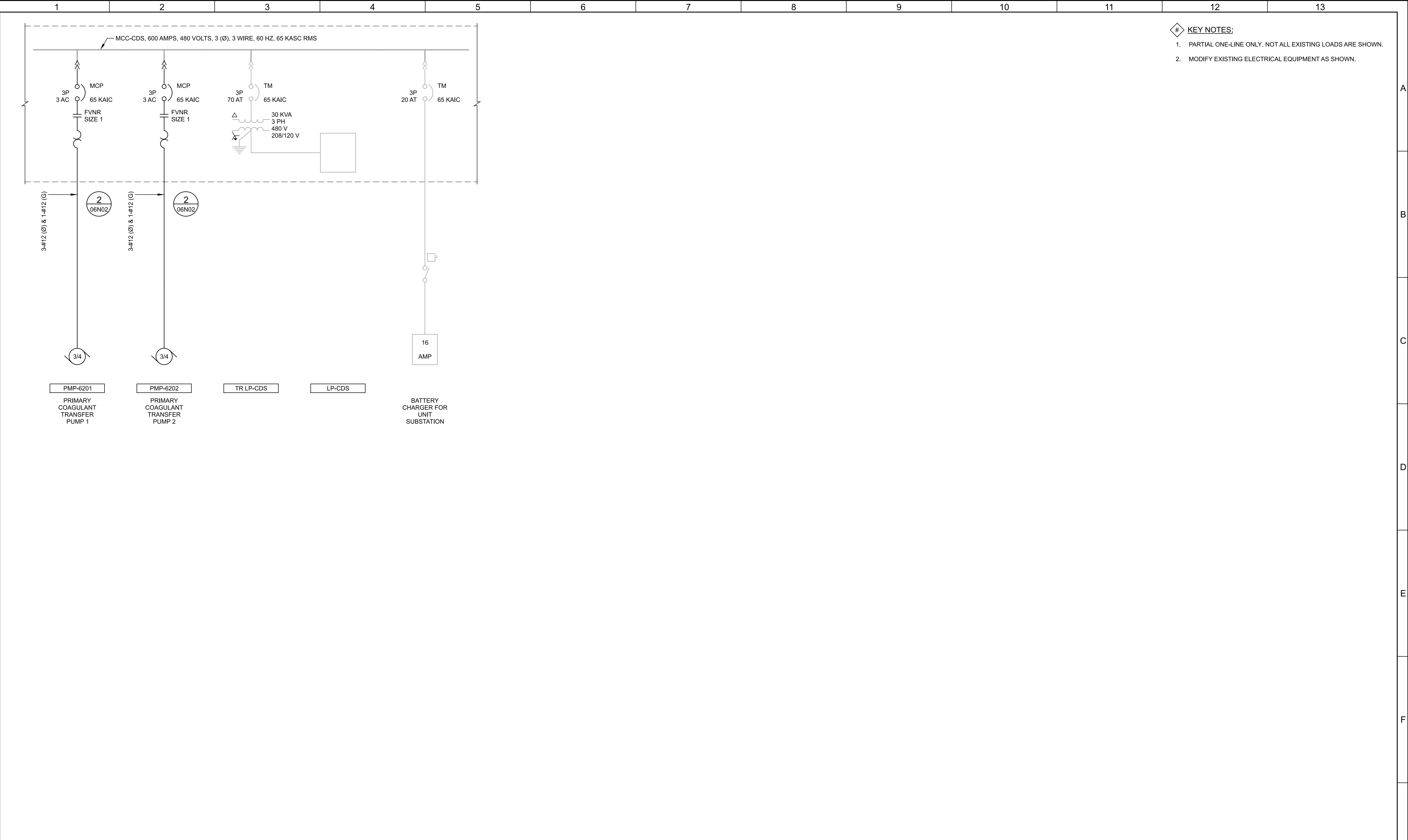
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sig_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: CROLLINS

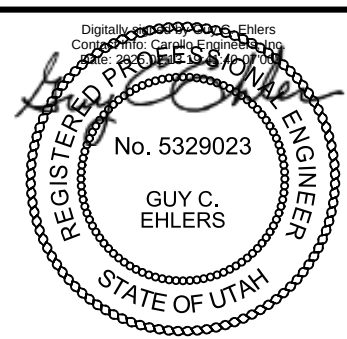


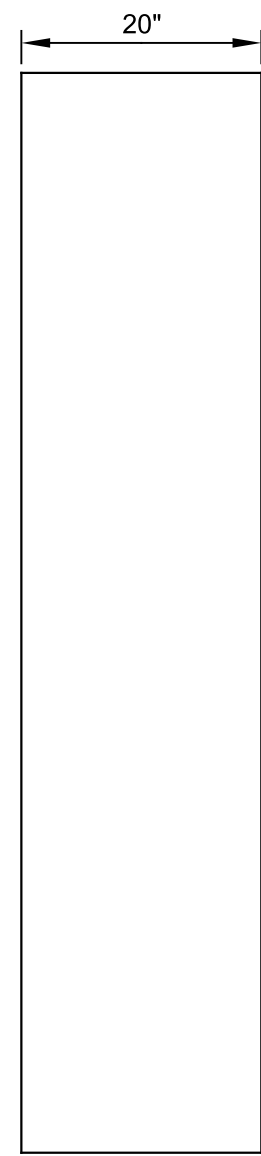
REV				DATE				BY				DESCRIPTION				DESIGNED SKB				DRAWN NCS				CHECKED GCE				DATE				FEBRUARY 2025				GUY C. EHLERS				No. 5329023				REGISTERED PROFESSIONAL ENGINEER				STATE OF UTAH				carollo				JORDAN VALLEY WATER CONSERVANCY DISTRICT				JORDAN VALLEY WATER TREATMENT PLANT				FILTER AND CHEMICAL FEED UPGRADES				ELECTRICAL				MCC-BL ONE-LINE DIAGRAM				VERIFY SCALES				BAR IS ONE INCH ON ORIGINAL DRAWING				0 1"				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY				JOB NO. 202001.10				DRAWING NO. 03E16				SHEET NO. 312 OF 531			
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Plot Date: 10-FEB-2025 2:36:56 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: CROLLINS



- # KEY NOTES:
- PARTIAL ONE-LINE ONLY. NOT ALL EXISTING LOADS ARE SHOWN.
 - MODIFY EXISTING ELECTRICAL EQUIPMENT AS SHOWN.

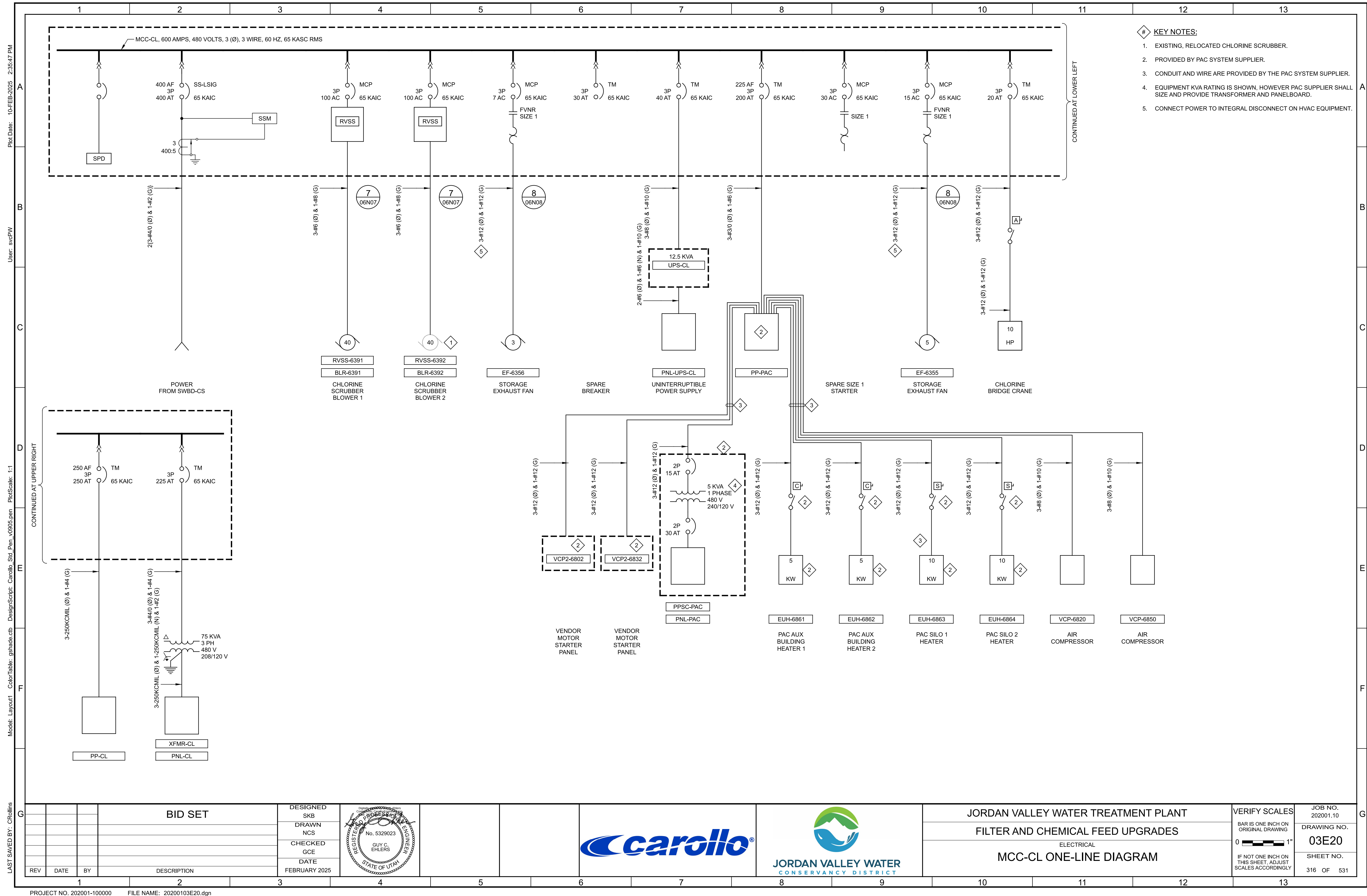
			BID SET	DESIGNED SKB					JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10	G
				DRAWN NCS					BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.		
				CHECKED GCE					0  1"	03E18		
				DATE FEBRUARY 2025					IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 314 OF 531		
REV	DATE	BY	DESCRIPTION									

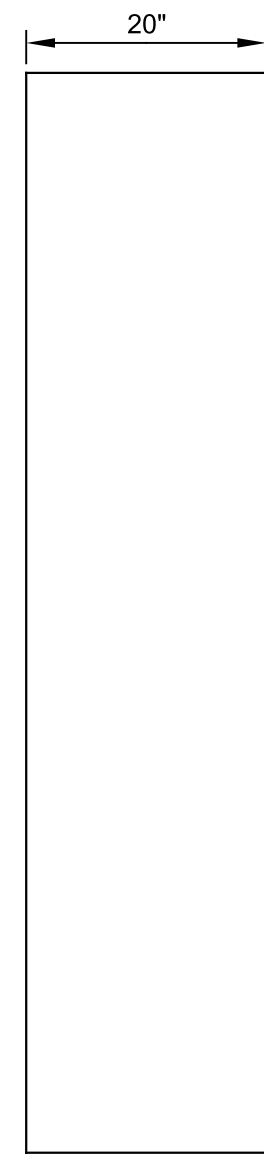


SCALE: 3/4"=1'-0"
FILE: 20200103E0625

1A- SPD	2A- BLR-6391 CHLORINE SCRUBBER BLOWER 1	3A- BLR-6392 CHLORINE SCRUBBER BLOWER 2	4A- UPS-CL	5A- CHLORINE BRIDGE CRANE
1E- POWER METER	2H- SPACE	3H- SPACE	4C- PP-PAC	5C- PP-CL
1G- MAIN BREAKER	2J- SPACE	3J- EF-6356 STORAGE EXHAUST FAN	4F- SPARE SIZE 1 STARTER	5F- XFMR-CL PNL-CL
			4H- EF-6355 STORAGE EXHAUST FAN	5J- SPACE
		3L- SPARE BREAKER	4J- SPACE	5H- SPACE

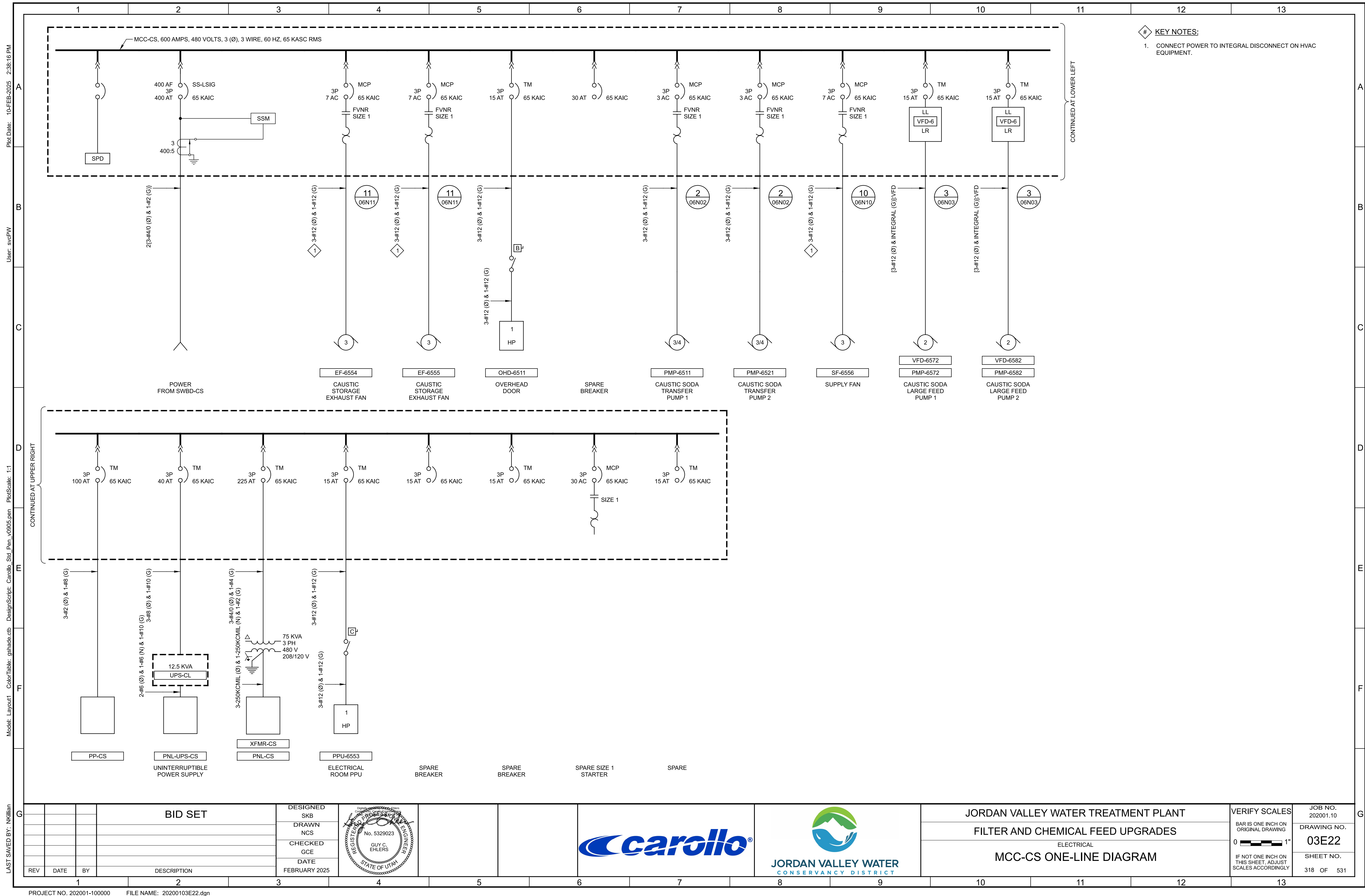
			BID SET	DESIGNED SKB							JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
			DRAWN NCS	CHECKED GCE		FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.					
			DATE FEBRUARY 2025			ELECTRICAL	0  1"	03E19					
REV	DATE	BY	DESCRIPTION			MCC-CL ELEVATION	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 315 OF 531					

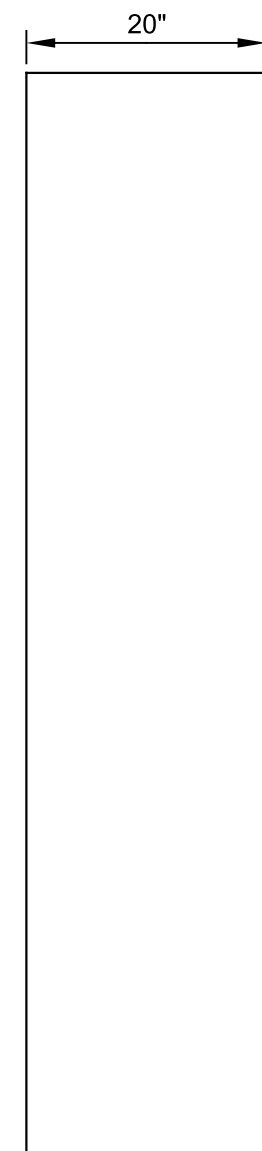




SCALE: 3/4"=1'-0"
FILE: 20200103E0626

[illegible]





SCALE: 3/4"=1'-0"
FILE: 20200103E0628

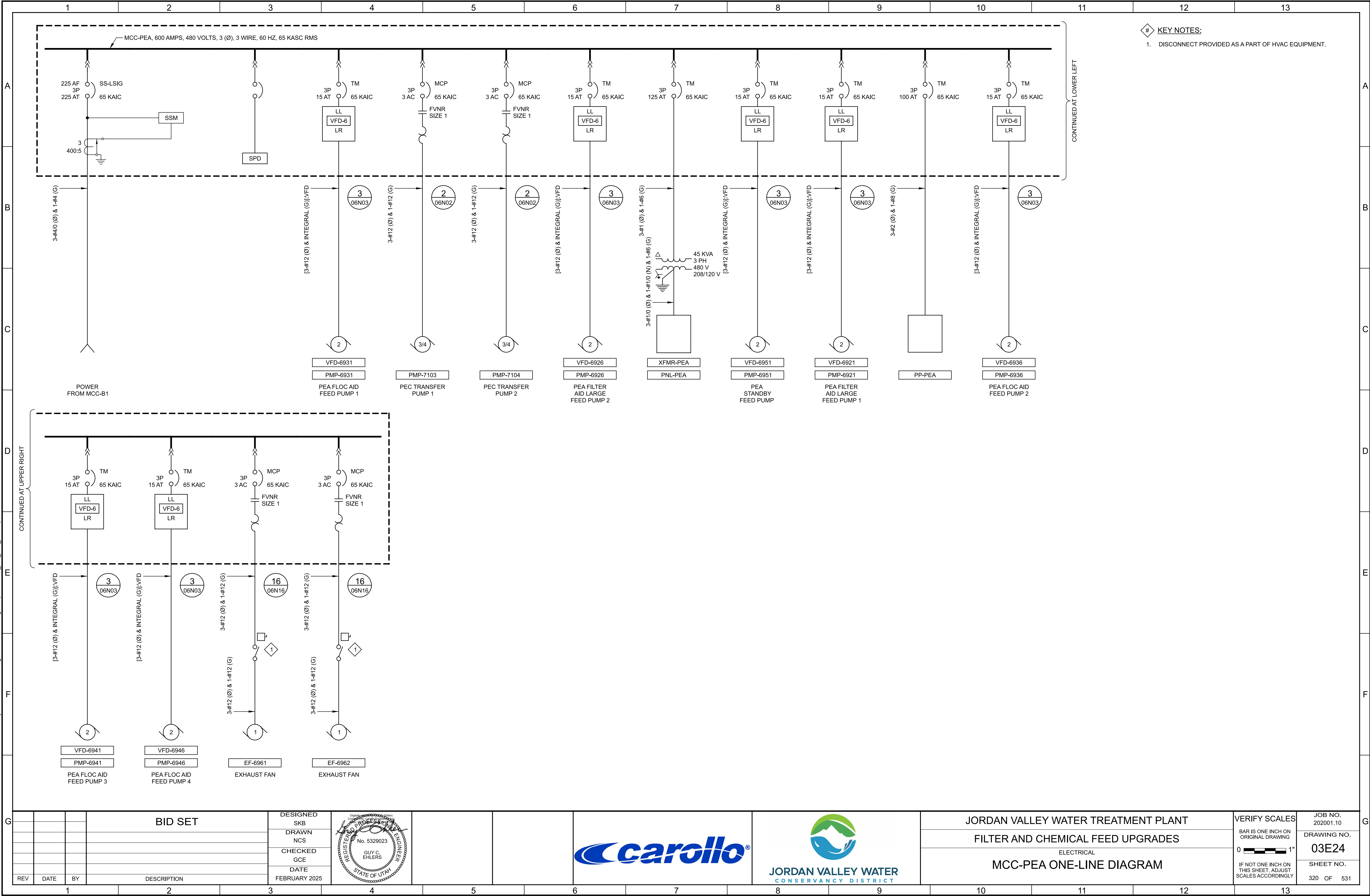
			BID SET	DESIGNED SKB						JORDAN VALLEY WATER CONSERVANCY DISTRICT	JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
			DRAWN NCS	No. 5329023							FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
			CHECKED GCE	GUY C. EHLERS							ELECTRICAL	0 1"	03E23
REV	DATE	BY	DESCRIPTION	DATE FEBRUARY 2025							MCC-PEA ELEVATION	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 319 OF 531

Plot Date: 10-FEB-2025 2:38:48 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: Crollins



PROJECT NO. 202001-100000 FILE NAME: 20200104E01.dwg

Plot Date: 9/12/2022 7:29:07 AM

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GENERAL NOTES:

1. VALVE ACTUATORS ON EXISTING PANELBOARDS TO BE REPLACED AND RE-POWERED FROM THE SAME CIRCUIT.

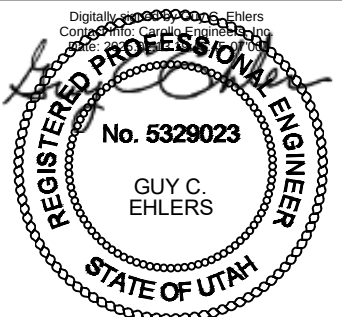
KEY NOTES:

1. EXISTING PANELBOARD.

PANEL PP-4													1/24/2025
LOCATION: FILTERS			NEMA: 1		PH A WEIGHTED VA		4728						
VOLTS: 480			FEED: TOP		PH B WEIGHTED VA		4728						
PHASE & WIRES PH 3W			MTG. SURFACE		PH C WEIGHTED VA		4728						
INTERRUPT: 10 KAIC			BUS RATING: 225										
			MAIN: CB		EQUIP SIZING VA		14183						
			MAIN RATING: 250 AF 225 AT		PANEL AMPS		17.1						
I/C/S	DESCRIPTION		LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
C			305		1	A	2		305			C	
C	FV-3141 - FILTER 14 INLET VALVE		305	15A-3P	3	B	4	15A-3P	305	FV-3131 - FILTER 13 INLET VALVE		C	
C			305		5	C	6		305			C	
C			305		7	A	8		305			C	
C	FV-3142 - FILTER 14 EFFLUENT VALVE		305	15A-3P	9	B	10	15A-3P	305	FV-3132 - FILTER 13 EFFLUENT VALVE		C	
C			305		11	C	12		305			C	
I			305		13	A	14		305			I	
I	FV-3144 - FILTER 14 BACKWASH VALVE		305	15A-3P	15	B	16	15A-3P	305	FV-3134 - FILTER 13 BACKWASH VALVE		I	
I			305		17	C	18		305			I	
I			305		19	A	20		305			I	
I	FV-3147 - FILTER 14 WASTE WASHWATER VALVE		305	15A-3P	21	B	22	15A-3P	305	FV-3137 - FILTER 13 WASTE WASHWATER VALVE		I	
I			305		23	C	24		305			I	
C			305		25	A	26		305			C	
C	FV-3143 - FILTER 14 FILTER TO WASTE VALVE		305	15A-3P	27	B	28	15A-3P	305	FV-3133 - FILTER 13 FILTER TO WASTE VALVE		C	
C			305		29	C	30		305			C	
I			305		31	A	32		305			I	
I	FV-3145 - FILTER 14 AIR SCOUR VALVE		305	15A-3P	33	B	34	15A-3P	305	FV-3135 - FILTER 13 AIR SCOUR VALVE		I	
I			305		35	C	36		305			I	
I			305		37	A	38		305			I	
I	FV-3146 - FILTER 14 VENT VALVE		305	15A-3P	39	B	40	15A-3P	305	FV-3136 - FILTER 13 VENT VALVE		I	
I			305		41	C	42		305			I	

PANEL PP-5												1/24/2025
LOCATION: FILTERS			NEMA: 1		PH A WEIGHTED VA		4728					
VOLTS: 480			FEED: TOP		PH B WEIGHTED VA		4728					
PHASE & WIRE3 PH 3W			MTG. SURFACE		PH C WEIGHTED VA		4728					
INTERRUPT: 10 KAIC			BUS RATING: 225									
			MAIN: CB		EQUIP SIZING VA		14183					
			MAIN RATING: 250 AF 225 AT		PANEL AMPS		17.1					
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
C		305		1	A	2		305			C	
C	FV-3161 - FILTER 16 INLET VALVE	305	15A-3P	3	B	4	15A-3P	305	FV-3151 - FILTER 15 INLET VALVE		C	
C		305		5	C	6		305			C	
C		305		7	A	8		305			C	
C	FV-3162 - FILTER 16 EFFLUENT VALVE	305	15A-3P	9	B	10	15A-3P	305	FV-3152 - FILTER 15 EFFLUENT VALVE		C	
C		305		11	C	12		305			C	
I		305		13	A	14		305			I	
I	FV-3164 - FILTER 16 BACKWASH VALVE	305	15A-3P	15	B	16	15A-3P	305	FV-3154 - FILTER 15 BACKWASH VALVE		I	
I		305		17	C	18		305			I	
I		305		19	A	20		305			I	
I	FV-3167 - FILTER 16 WASTE WASHWATER VALVE	305	15A-3P	21	B	22	15A-3P	305	FV-3157 - FILTER 15 WASTE WASHWATER VALVE		I	
I		305		23	C	24		305			I	
C		305		25	A	26		305			C	
C	FV-3163 - FILTER 16 FILTER TO WASTE VALVE	305	15A-3P	27	B	28	15A-3P	305	FV-3153 - FILTER 15 FILTER TO WASTE VALVE		C	
C		305		29	C	30		305			C	
I		305		31	A	32		305			I	
I	FV-3165 - FILTER 16 AIR SCOUR VALVE	305	15A-3P	33	B	34	15A-3P	305	FV-3155 - FILTER 15 AIR SCOUR VALVE		I	
I		305		35	C	36		305			I	
I		305		37	A	38		305			I	
I	FV-3166 - FILTER 16 VENT VALVE	305	15A-3P	39	B	40	15A-3P	305	FV-3156 - FILTER 15 VENT VALVE		I	
I		305		41	C	42		305			I	

PANEL PP-6												1/24/2025
LOCATION: FILTERS			NEMA: 1		PH A WEIGHTED VA		4728					
VOLTS: 480			FEED: TOP		PH B WEIGHTED VA		4728					
PHASE & WIRES PH 3W			MTG. SURFACE		PH C WEIGHTED VA		4728					
INTERRUPT: 35 KAIC			BUS RATING: 100									
			MAIN: MLO		EQUIP SIZING VA		14183					
					PANEL AMPS		17.1					
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
C		305		1	A	2		305			C	
C	FV-3011 - FILTER 1 INLET VALVE	305	15A-3P	3	B	4	15A-3P	305	FV-3021 - FILTER 2 INLET VALVE		C	
C		305		5	C	6		305			C	
C		305		7	A	8		305			C	
C	FV-3012 - FILTER 1 EFFLUENT VALVE	305	15A-3P	9	B	10	15A-3P	305	FV-3022 - FILTER 2 EFFLUENT VALVE		C	
C		305		11	C	12		305			C	
C		305		13	A	14		305			C	
I	FV-3014 - FILTER 1 BACKWASH VALVE	305	15A-3P	15	B	16	15A-3P	305	FV-3024 - FILTER 2 BACKWASH VALVE		I	
I		305		17	C	18		305			I	
I		305		19	A	20		305			I	
I	FV-3017 - FILTER 1 WASTE WASHWATER VALVE	305	15A-3P	21	B	22	15A-3P	305	FV-3027 - FILTER 2 WASTE WASHWATER VALVE		I	
I		305		23	C	24		305			I	
C		305		25	A	26		305			C	
C	FV-3013 - FILTER 1 FILTER TO WASTE VALVE	305	15A-3P	27	B	28	15A-3P	305	FV-3023 - FILTER 2 FILTER TO WASTE VALVE		C	
C		305		29	C	30		305			C	
I		305		31	A	32		305			I	
I	FV-3015 - FILTER 1 AIR SCOUR VALVE	305	15A-3P	33	B	34	15A-3P	305	FV-3025 - FILTER 2 AIR SCOUR VALVE		I	
I		305		35	C	36		305			I	
I		305		37	A	38		305			I	
I	FV-3016 - FILTER 1 VENT VALVE	305	15A-3P	39	B	40	15A-3P	305	FV-3026 - FILTER 2 VENT VALVE		I	
I		305		41	C	42		305			I	

BID SET				DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
				DRAWN MNH						FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 04E02
				CHECKED GCE						ELECTRICAL	0  1"	
REV	DATE	BY	DESCRIPTION	DATE FEBRUARY 2025						PANELBOARD SCHEDULE 2	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 322 OF 531

Plot Date: 1/21/2025 12:01:22 PM

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GENERAL NOTES:

1. VALVE ACTUATORS ON EXISTING PANELBOARDS TO BE REPLACED AND RE-POWERED FROM THE SAME CIRCUIT.

KEY NOTES:

1. EXISTING PANELBOARD.

PANEL PP-7												1/27/2025
LOCATION: FILTERS			NEMA: 1		PH A WEIGHTED VA		4728					
VOLTS: 480			FEED: TOP		PH B WEIGHTED VA		4728					
PHASE & WIRES PH 3W			MTG: SURFACE		PH C WEIGHTED VA		4728					
INTERRUPT: 35 KAIC			BUS RATING: 100									
			MAIN: MLO		EQUIP SIZING VA		14183					
					PANEL AMPS		17.1					
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
C	FV-3031 - FILTER 3 INLET VALVE	305	15A-3P	1	A	2	15A-3P	305	FV-3041 - FILTER 4 INLET VALVE		C	
C		305		3	B	4		305		C		
C		305		5	C	6		305		C		
C	FV-3032 - FILTER 3 EFFLUENT VALVE	305	15A-3P	7	A	8	15A-3P	305	FV-3042 - FILTER 4 EFFLUENT VALVE		C	
C		305		9	B	10		305		C		
C		305		11	C	12		305		C		
I	FV-3034 - FILTER 3 BACKWASH VALVE	305	15A-3P	13	A	14	15A-3P	305	FV-3044 - FILTER 4 BACKWASH VALVE		I	
I		305		15	B	16		305		I		
I		305		17	C	18		305		I		
I	FV-3037 - FILTER 3 WASTE WASHWATER VALVE	305	15A-3P	19	A	20	15A-3P	305	FV-3047 - FILTER 4 WASTE WASHWATER VALVE		I	
I		305		21	B	22		305		I		
I		305		23	C	24		305		I		
C	FV-3033 - FILTER 3 FILTER TO WASTE VALVE	305	15A-3P	25	A	26	15A-3P	305	FV-3043 - FILTER 4 FILTER TO WASTE VALVE		C	
C		305		27	B	28		305		C		
C		305		29	C	30		305		C		
I	FV-3035 - FILTER 3 AIR SCOUR VALVE	305	15A-3P	31	A	32	15A-3P	305	FV-3045 - FILTER 4 AIR SCOUR VALVE		I	
I		305		33	B	34		305		I		
I		305		35	C	36		305		I		
I	FV-3036 - FILTER 3 VENT VALVE	305	15A-3P	37	A	38	15A-3P	305	FV-3046 - FILTER 4 VENT VALVE		I	
I		305		39	B	40		305		I		
I		305		41	C	42		305		I		

PANEL PP-8														1/27/2025	
LOCATION: FILTERS				NEMA: 1		PH A WEIGHTED VA		4728							
VOLTS: 480				FEED: TOP		PH B WEIGHTED VA		4728							
PHASE & WIRE: 3 PH 3W				MTG. SURFACE		PH C WEIGHTED VA		4728							
INTERRUPT: 35 KAIC				BUS RATING: 100											
				MAIN: MLO		EQUIP SIZING VA		14183							
						PANEL AMPS		17.1							
I/C/S DESCRIPTION				LOAD (VA)		BKR		CIR Ø CIR		BKR		LOAD (VA) DESCRIPTION I/C/S			
C				305		15A-3P	1 A 2		305				C		
C	FV-3051 - FILTER 5 INLET VALVE			305			3 B 4	15A-3P	305			FV-3061 - FILTER 6 INLET VALVE	C		
C				305			5 C 6		305				C		
C				305			7 A 8		305				C		
C	FV-3052 - FILTER 5 EFFLUENT VALVE			305		15A-3P	9 B 10	15A-3P	305			FV-3062 - FILTER 6 EFFLUENT VALVE	C		
C				305			11 C 12		305				C		
I				305			13 A 14		305				I		
I	FV-3054 - FILTER 5 BACKWASH VALVE			305		15A-3P	15 B 16	15A-3P	305			FV-3064 - FILTER 6 BACKWASH VALVE	I		
I				305			17 C 18		305				I		
I				305			19 A 20		305				I		
I	FV-3057 - FILTER 5 WASTE WASHWATER VALVE			305		15A-3P	21 B 22	15A-3P	305			FV-3067 - FILTER 6 WASTE WASHWATER VALVE	I		
I				305			23 C 24		305				I		
C				305			25 A 26		305				C		
C	FV-3053 - FILTER 5 FILTER TO WASTE VALVE			305		15A-3P	27 B 28	15A-3P	305			FV-3063 - FILTER 6 FILTER TO WASTE VALVE	C		
C				305			29 C 30		305				C		
I				305			31 A 32		305				I		
I	FV-3055 - FILTER 5 AIR SCOUR VALVE			305		15A-3P	33 B 34	15A-3P	305			FV-3065 - FILTER 6 AIR SCOUR VALVE	I		
I				305			35 C 36		305				I		
I				305			37 A 38		305				I		
I	FV-3056 - FILTER 5 VENT VALVE			305		15A-3P	39 B 40	15A-3P	305			FV-3066 - FILTER 6 VENT VALVE	I		
I				305			41 C 42		305				I		

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CHECKED GCE
DATE FEBRUARY 2025

Registered Professional Engineer
No. 5329023
GUY C. EHLERS
STATE OF UTAH

carollo

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
PANELBOARD SCHEDULE 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202001.10
DRAWING NO. 04E03
SHEET NO. 323 OF 531

PROJECT NO. 202001-100000

FILE NAME: 20200104E03.dwg

PROJECT NO. 202001-100000 FILE NAME: 20200104E04.dwg

Plot Date: 9/12/2022 7:29:07 AM

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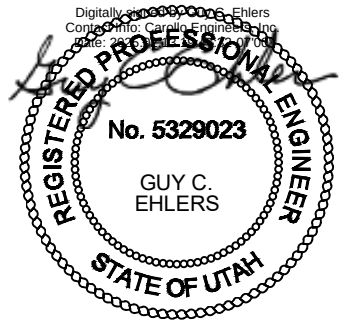
1	2	3	4	5	6	7	8	9	10	11	12	13
PANEL PP-CS2/3/2025												
LOCATION: CAUSTIC SODA BUILDING VOLTS: 480 PHASE & WIRE: 3 PH 3W INTERRUPT: 65 KAIC OPTIONS: SPD NEMA: 1 FEED: BOTTOM MTG. SURFACE BUS RATING: 100 MAIN: CB MAIN RATING: 100 AF 100 AT EQUIP SIZING VA PANEL AMPS 25943 31.2 PH A WEIGHTED VA 8648 PH B WEIGHTED VA 8648 PH C WEIGHTED VA 8648												
I/C/S DESCRIPTIONLOAD (VA)BKR CIR Ø CIRBKR LOAD (VA) DESCRIPTIONI/C/S												
C64301A2SPARE												
CMAU-6560 - MAKEUP AIR UNIT64303B420A-3PSPARE												
C64305C6SPARE												
I3057A8SPARE												
IFV-4112 - BW TANK 1 EFFLUENT VALVE3059B1020A-3PSPARE												
I30511C12SPARE												
I30513A14SPARE												
IFV-4122 - BW TANK 2 EFFLUENT VALVE30515B1620A-3PSPARE												
I30517C18SPARE												
SPARE19A20SPARE												
SPARE21B2220A-3PSPARE												
SPARE23C24SPARE												
SPARE25A26SPARE												
SPARE27B2820A-3PSPARE												
SPARE29C30SPARE												
SPARE31A32SPARE												
SPARE33B3420A-3PSPARE												
SPARE35C36SPARE												
SPARE37A38SPARE												
C1CULINARY RESERVOIR LIGHT FOR SECURITY (PERMANENT POWER)20A-1P39B4020A-3PSPARE												
C20A-2P41C42SPARE												

KEY NOTES:

1. AFTER THE CAUSTIC SODA BUILDING IS ENERGIZED AND OPERATIONAL, USE THIS CIRCUIT BREAKER TO POWER THE CULINARY RESERVOIR CIRCUIT. DURING CONSTRUCTION, TEMPORARILY POWER THE CULINARY RESERVOIR CIRCUIT FROM PNL-CELL.

1	2	3	4	5	6	7	8	9	10	11	12	13
PANEL PNL-CS2/4/2025												
LOCATION: CAUSTIC SODA BUILDING VOLTS: 208/120 PHASE & WIRE: 3 PH 4W INTERRUPT: 18 KAIC OPTIONS: SPD NEMA: 1 FEED: BOTTOM MTG. SURFACE BUS RATING: 250 MAIN: CB MAIN RATING: 250 AF 250 AT EQUIP SIZING VA PANEL AMPS 61556 170.9 PH A WEIGHTED VA 20388 PH B WEIGHTED VA 20519 PH C WEIGHTED VA 15945												
I/C/S DESCRIPTIONLOAD (VA)BKR CIR Ø CIRBKR LOAD (VA) DESCRIPTIONI/C/S												
IHP-6551 - ELECTRICAL ROOM HP 1197625A-2P1A220A-1P900CAUSTIC SODA ELECTRICAL ROOM RECEPTACLES												
I19763B420A-1P900CAUSTIC SODA BUILDING RECEPTACLES												
IHP-6552 - ELECTRICAL ROOM HP 2197625A-2P5C620A-1P1260CAUSTIC SODA BUILDING RECEPTACLES												
I19767A820A-1P1800CAUSTIC SODA BUILDING RECEPTACLES												
CHTU-6510 - SAFETY SHOWER HEAT TRACE18015A-1P9B1020A-1P720CAUSTIC SODA BUILDING RECEPTACLES												
SPARE20A-1P11C1230A-1P2880HTU-6501 - CAUSTIC SODA TANK 1 HEAT TRACE												
SPARE20A-1P13A1430A-1P2880HTU-6502 - CAUSTIC SODA TANK 2 HEAT TRACE												
C RTU-CS - CAUSTIC SODA PCM CABINET192020A-1P15B1630A-1P2880HTU-6503 - CAUSTIC SODA TANK 3 HEAT TRACE												
CHEA-6501 - CAUSTIC SODA TANK 1 HEAT TRACE288030A-1P17C1815A-1P600HTU-6511 - SAFETY SHOWER (LOADING) HEAT TRACE												
SPARE20A-1P19A2030A-1P2880HTU-6531 - CAUSTIC SODA DAY TANK HEAT TRACE												
CGUH-6561 - CAUSTIC STORAGE ROOM UNIT HEATER 128815A-1P21B2220A-1P500VCP-6541 - CAUSTIC SODA SMALL FEED PUMP 1 CONTROL PANEL												
CGUH-6562 - CAUSTIC STORAGE ROOM UNIT HEATER 228815A-1P23C2420A-1P500VCP-6562 - CAUSTIC SODA SMALL FEED PUMP 2 CONTROL PANEL												
CGUH-6563 - CAUSTIC STORAGE ROOM UNIT HEATER 344415A-1P25A2620A-1PSPARE												
CGUH-6564 - CAUSTIC STORAGE ROOM UNIT HEATER 444415A-1P27B2815A-1P1200CS SECURITY PNL												
CTWH-6565 - TEPID WATER HEATER 148015A-1P29C3020A-1P66CAUSTIC SODA BUILDING EXTERIOR LIGHTING												
CTWH-6566 - TEPID WATER HEATER 248015A-1P31A3220A-1PSPARE												
CTWH-6567 - TEPID WATER HEATER 348015A-1P33B3415A-1P71EF-4151 - BACKWASH VAULT EXHAUST FAN												
ICAUSTIC SODA BUILDING PUMP RECEPTACLE18020A-1P35C3620A-1PSPARE												
ICAUSTIC SODA BUILDING PUMP RECEPTACLE18020A-1P37A3820A-1P1186CAUSTIC SODA BUILDING LIGHTING												
CPMP-4125 - VALVE VAULT SUMP PUMP117615A-1P39B4020A-1P1183CAUSTIC SODA BUILDING LIGHTING												
CELECTRICAL ROOM ROOF LIGHTS11120A-1P41C4220A-1P222CAUSTIC SODA BUILDING ELECTRICAL ROOM LIGHTING												
SPARE20A-1P43A4420A-1PSPARE												
SPARE20A-1P45B4620A-1PSPARE												
SPARE20A-1P47C4820A-1PSPARE												
SPARE20A-1P49A5020A-1PSPARE												
SPARE20A-1P51B5220A-1PSPARE												
SPARE20A-1P53C5420A-1PSPARE												
SPARE20A-1P55A563719PNL-CELL												
IUPS-CS BYPASS - UNINTERRUPTIBLE POWER SUPPLY262060A-2P57B5850A-3P1525												
I262059C600												

1	2	3	4	5	6	7	8	9	10	11	12	13
PANEL PNL-UPS-CS2/4/2025												
LOCATION: CAUSTIC SODA BUILDING VOLTS: 208/120 PHASE & WIRE: 1 PH 3W INTERRUPT: 18 KAIC OPTIONS: SPD NEMA: 1 FEED: BOTTOM MTG. SURFACE BUS RATING: 100 MAIN: CB MAIN RATING: 100 AF 60 AT EQUIP SIZING VA PANEL AMPS 4800 23.1 PH A WEIGHTED VA 1500 PH B WEIGHTED VA 2400												
I/C/S DESCRIPTIONLOAD (VA)BKR CIR Ø CIRBKR LOAD (VA) DESCRIPTIONI/C/S												
C CS SECURITY PNL120015A-1P1A220A-1PSPARE												
C RTU-CS - CAUSTIC SODA PCM CABINET192020A-1P3B420A-1PSPARE												
SPARE20A-1P5A620A-1PSPARE												
SPARE20A-1P7B820A-1PSPARE												
SPARE20A-1P9A1020A-1PSPARE												
SPARE20A-1P11B1220A-1PSPARE												
SPARE20A-1P13A1420A-1PSPARE												
SPARE20A-1P15B1620A-1PSPARE												
SPARE20A-1P17A1820A-1PSPARE												
SPARE20A-1P19B2020A-1PSPARE												
SPARE20A-1P21A2220A-1PSPARE												
SPARE20A-1P23B2420A-1PSPARE												
SPARE20A-1P25A2620A-1PSPARE												
SPARE20A-1P27B2820A-1PSPARE												
SPARE20A-1P29A3020A-1PSPARE												

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KEY NOTES:

1. PANELBOARD TO BE PROVIDED BY THE PAC SYSTEM SUPPLIER.

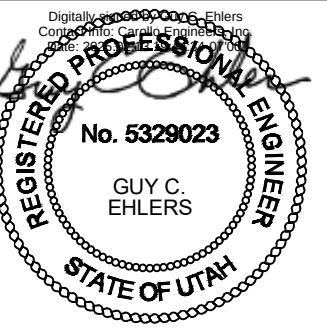
PANEL PP-PEA											2/10/2025
LOCATION: PEA			NEMA: 1		PH A WEIGHTED VA		6764				
VOLTS: 480			FEED: BOTTOM		PH B WEIGHTED VA		6764				
PHASE & WIRES PH 3W			MTG: SURFACE		PH C WEIGHTED VA		6764				
INTERRUPT: 65 KAIC			BUS RATING: 100								
OPTIONS: SPD			MAIN: CB		EQUIP SIZING VA		20291				
			MAIN RATING: 100 AF 100 AT		PANEL AMPS		24.4				
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
C	HOI-6906 - DRY POLYMER HOIST 1	1331	15A-3P	1	A 2	20A-3P		SPARE			
C		1331		3	B 4						
C		1331		5	C 6						
S		1331		7	A 8						
S		1331		9	B 10						
S	HOI-6916 - DRY POLYMER HOIST 2	1331	15A-3P	11	C 12	20A-3P		SPARE			
S		1331		13	A 14						
I	VCP-6901 - PEA FEED SYSTEM VENDOR CONTROL PANEL 1	5100	20A-3P	15	B 16	20A-3P		SPARE			
I		5100		17	C 18						
I		5100		19	A 20						
				21	B 22						
	SPARE		20A-3P	23	C 24	20A-3P		SPARE			
	SPARE		20A-3P	25	A 26	20A-3P		SPARE			
				27	B 28						
				29	C 30						
	SPARE		20A-3P	31	A 32	20A-3P		SPARE			
				33	B 34						
				35	C 36						
	SPARE		20A-3P	37	A 38	20A-3P		SPARE			
				39	B 40						
				41	C 42						

PANEL PNL-PEA											2/10/2025
LOCATION: PEA			NEMA: 1		PH A WEIGHTED VA		1160				
VOLTS: 208/120			FEED: BOTTOM		PH B WEIGHTED VA		1500				
PHASE & WIRES PH 4W			MTG. SURFACE		PH C WEIGHTED VA		4310				
INTERRUPT: 65 KAIC			BUS RATING: 100								
OPTIONS: SPD			MAIN: CB		EQUIP SIZING VA		12930				
			MAIN RATING: 100 AF 100 AT		PANEL AMPS		35.9				
I/C/S DESCRIPTION			LOAD (VA)	BKR	CIR	Ø CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S	
SPARE				XXA-1P	1	A	2	20A-1P	SPARE		
SPARE				XXA-1P	3	B	4	20A-1P	SPARE		
C	SUH-6961 - STEAM/HOT WATER UNIT HEATER 1		528	15A-1P	5	C	6	20A-1P	1920	RTU-PEA - PEA PCM CABINET	
C	SUH-6962 - STEAM/HOT WATER UNIT HEATER 2		528	15A-1P	7	A	8	20A-1P			
I	VCP-6204 - PRIMARY COAGULANT FEED PUMP 1		500	15A-1P	9	B	10	20A-1P			
I	VCP-6211 - PRIMARY COAGULANT FEED PUMP 3		500	15A-1P	11	C	12	20A-1P			
I	VCP-6221 - PRIMARY COAGULANT FEED PUMP 4		500	15A-1P	13	A	14	20A-1P			
I	VCP-6911 - PEA FILTER AID SMALL FEED PUMP 1 CONTROL PANEL		500	15A-1P	15	B	16	20A-1P			
I	VCP-6916 - PEA FILTER AID SMALL FEED PUMP 2 CONTROL PANEL		250	15A-1P	17	C	18	20A-1P			
SPARE				15A-1P	19	A	20	20A-1P			
I	VCP-6956 - PEA FILTER AID DOSING PUMP VENDOR CONTROL PANEL		500	15A-1P	21	B	22	20A-1P			
I	VCP-7106 - PEC FEED PUMP 1 VENDOR CONTROL PANEL		500	15A-1P	23	C	24	20A-1P			
I	VCP-7107 - PEC FEED PUMP 2 VENDOR CONTROL PANEL		0	15A-1P	25	A	26	20A-1P			
SPARE				20A-1P	27	B	28	20A-1P			
SPARE				20A-1P	29	C	30	20A-1P			
SPARE				20A-1P	31	A	32	20A-1P			
SPARE				20A-1P	33	B	34	20A-1P			
SPARE				20A-1P	35	C	36	20A-1P			
SPARE				20A-1P	37	A	38	20A-1P			
SPARE				20A-1P	39	B	40	20A-1P			
SPARE				20A-1P	41	C	42	20A-1P			

PANEL PP-PAC										2/10/2025
LOCATION: PAC BUILDING		NEMA: 1		PH A WEIGHTED VA		30190				
VOLTS: 480		FEED: BOTTOM		PH B WEIGHTED VA		30190				
PHASE & WIRES PH 3W		MTG: SURFACE		PH C WEIGHTED VA		30190				
INTERRUPT: 65 KAIC		BUS RATING: 225		EQUIP SIZING VA		90569				
OPTIONS: SPD		MAIN: CB		PANEL AMPS		108.9				
		MAIN RATING: 225 AF 200 AT								
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S	
I		2523		1	A	2	1667		C	
I	VCP2-6802 - VENDOR MOTOR STARTER PANEL	2523	15A-3P	3	B	4	15A-3P	1667 EUH-6861 - PAC AUX BUILDING HEATER 1	C	
I		2523		5	C	6		1667	C	
I		2523		7	A	8		1667	C	
I	VCP2-6832 - VENDOR MOTOR STARTER PANEL	2523	20A-3P	9	B	10	15A-3P	1667 EUH-6862 - PAC AUX BUILDING HEATER 2	C	
I		2523		11	C	12		1667	C	
I		5987		13	A	14		3334	C	
I	VCP-6820 - AIR COMPRESSOR VENDOR CONTROL PANEL	5987	50A-3P	15	B	16	20A-3P	3334 EUH-6863 - PAC SILO 1 HEATER	C	
I		5987		17	C	18		3334	C	
I		5987		19	A	20		3334	C	
I	VCP-6850 - AIR COMPRESSOR VENDOR CONTROL PANEL	5987	50A-3P	21	B	22	20A-3P	3334 EUH-6864 - PAC SILO 2 HEATER	C	
I		5987		23	C	24		3334	C	
				25	A	26		667	I	
	SPARE		15A-3P	27	B	28	45A-3P	667 PPSC-PAC - PACKAGED POWER SUPPLY CENTER	I	
				29	C	30		667	I	
				31	A	32				
	SPARE		50A-3P	33	B	34	20A-3P	SPARE		
				35	C	36				
				37	A	38				
	SPARE		20A-3P	39	B	40	20A-3P	SPARE		
				41	C	42				

BID SET			
REV	DATE	BY	DESCRIPTION

DESIGNED SKB
DRAWN MNH
CHECKED GCE
DATE FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
ELECTRICAL				0 1"	04E06
PANELBOARD SCHEDULE 6				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 326 OF 531

Plot Date: 9/12/2022 7:29:07 AM

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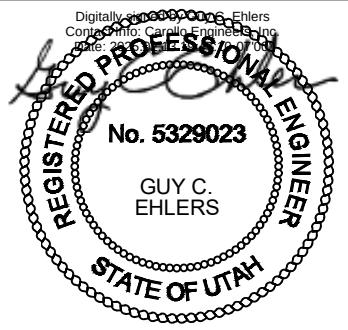
KEY NOTES:

1. EXISTING PANELBOARD.
2. PROVIDE NEW CIRCUIT BREAKER FOR NEW LOAD.
3. PANELBOARD INCLUDED FOR REFERENCE ONLY SHOWING POWER SOURCE FOR FILTER CONSOLES.
4. USE EXISTING CIRCUIT BREAKER FOR NEW LOAD.

PANEL UPS-S										1/24/2025	1
LOCATION: SOUTHEAST ELECTRICAL ROOM											
VOLTS: 208/120											
PHASE & WIRES PH 4W											
INTERRUPT: 10 KAIC											
NEMA: 1											
FEED: BOTTOM											
MTG: SURFACE											
BUS RATING: 100											
MAIN: CB											
MAIN RATING: 100 AF 100 AT											
EQUIP SIZING VA											
PANEL AMPS											
7200											
20.0											
I/C/S DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S		
PLC ALUM		20A-1P	1	A	2	20A-1P		PLC BOILER			
PARTICLE COUNTER AT BOILER		20A-1P	3	B	4	20A-1P		PLC ELECTRICAL 2N			
PLC SLUDGE		20A-1P	5	C	6	20A-1P		PLC PILOT			
PLC ELECTRICAL 2S		20A-1P	7	A	8	20A-1P		PLC NORTH			
FIT 6811, 6812		20A-1P	9	B	10	20A-1P		PLC CHLORINE			
FIT 6813, 6814		20A-1P	11	C	12	20A-1P		SPARE			
F	0		13	A	14	20A-1P		PLC SEDBS			
F UPS-B	0	150A-3P	15	B	16	20A-1P		PLC SEDBS			
F	0		17	C	18	20A-1P		PLC SOUTH			
PLC RECYCLE		20A-1P	19	A	20	20A-1P		CAMERA SW			
SPARE		20A-1P	21	B	22	20A-1P		CLO2 STRUCTURE			
SPARE		20A-1P	23	C	24	20A-1P		CLO2 STRUCTURE			
UPS-CR		20A-1P	25	A	26	20A-1P		PLC FLUORIDE			
UPS-CR		20A-1P	27	B	28	20A-1P	1920	RTU-BL - BLOWER PCM CABINET	C	4	
UPS-CR		20A-1P	29	C	30	20A-1P		SPARE			
SPARE		20A-1P	31	A	32	20A-1P		SPARE			
EXISTING BREAKER PANEL		20A-1P	33	B	34	20A-1P		EXISTING BREAKER PANEL			
UPS PANEL IVS		20A-1P	35	C	36	20A-1P		UPS PANEL SCREEN			
UPS PANEL IVS		20A-1P	37	A	38	20A-1P		UPS PANEL SCREEN			
UPS PANEL IVS		20A-1P	39	B	40	20A-1P		UPS PANEL SCREEN			
SPARE		20A-1P	41	C	42	20A-1P	1920	RTU-PEA - PEA PCM CABINET	C	4	

PANEL UPS-B										1/24/2025	3
LOCATION: Filters											
VOLTS: 208/120											
PHASE & WIRES PH 4W											
INTERRUPT: 10 KAIC											
NEMA: 1											
FEED: BOTTOM											
MTG: SURFACE											
BUS RATING: 150											
MAIN: CB											
MAIN RATING: 150 AF 150 AT											
EQUIP SIZING VA											
PANEL AMPS											
0											
0.0											
I/C/S DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S		
FILTER CONSOLE #1		20A-1P	1	A	2	20A-1P		FILTER CONSOLE #2			
FILTER CONSOLE #3		20A-1P	3	B	4	20A-1P		FILTER CONSOLE #4			
FILTER CONSOLE #5		20A-1P	5	C	6	20A-1P		FILTER CONSOLE #6			
FILTER CONSOLE #7		20A-1P	7	A	8	20A-1P		FILTER CONSOLE #8			
FILTER CONSOLE #9		20A-1P	9	B	10	20A-1P		FILTER CONSOLE #10			
FILTER CONSOLE #11		20A-1P	11	C	12	20A-1P		FILTER CONSOLE #12			
FILTER CONSOLE #13		20A-1P	13	A	14	20A-1P		FILTER CONSOLE #14			
FILTER CONSOLE #15		20A-1P	15	B	16	20A-1P		FILTER CONSOLE #16			
D-MARK/JOHNSON CONTROL PANEL		20A-1P	17	C	18	20A-1P		MECHANICAL ROOM #1 OUTLETS			
PLC RECYCLE		20A-1P	19	A	20	20A-1P		SPARE			
RTU-B		20A-1P	21	B	22	20A-1P		CHLORINATORS			
CHLORINE SCALES		20A-1P	23	C	24	20A-1P		CHLORINE GAS DETECTION			
CL2 AUDIBLE ALARM		20A-1P	25	A	26	20A-1P		ELEVATOR TELEPHONE			
SPARE SERVER POWER		20A-1P	27	B	28	20A-1P		PENTHOUSE MW RADIO			
SERVER POWER OUTLETS		20A-1P	29	C	30	20A-1P		SPARE			
RTU-ELECTRICAL ROOM #1		20A-1P	31	A	32	20A-1P		SPARE			
SERVER ROOM		20A-1P	33	B	34	20A-1P		ELECTRICAL ROOM OUTLETS			
SERVER ROOM		20A-1P	35	C	36	20A-1P		ELECTRICAL ROOM OUTLETS			
MICROWAVE RADIO RACK LEVEL 6		20A-1P	37	A	38	20A-1P		SPARE			
SPARE		20A-1P	39	B	40	20A-1P		SPARE			
SPARE		20A-1P	41	C	42	20A-1P		SPARE			

PANEL PNL-CPS										1/24/2025	1
LOCATION: Culinary Pump Station											
VOLTS: 208/120											
PHASE & WIRES PH 4W											
INTERRUPT: 10 KAIC											
NEMA: 1											
FEED: BOTTOM											
MTG: SURFACE											
BUS RATING: 100											
MAIN: CB											
MAIN RATING: 100 AF 70 AT											
EQUIP SIZING VA											
PANEL AMPS											
38990											
108.2											
I/C/S DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S		
C INSIDE LIGHTS	500	20A-1P	1	A	2	20A-1P	540	CPS RECEPTACLES	I		
C OUTSIDE LIGHTS	500	20A-1P	3	B	4	40A-1P	2686	CCTV CAMERA	C		
C WELL LIGHTS	120	20A-1P	5	C	6	20A-1P	300	AQUEDUCT METER VAULT SUMP PUMP	I		
C BLUFDIALE METER VAULT RTU	3840	40A-1P	7	A	8	20A-1P	120	AQUEDUCT METER VAULT LIGHTS	C		
C AQUEDUCT METER VAULT FAN	696	20A-1P	9	B	10	20A-1P	540	AQUEDUCT METER VAULT RECEPTACLES	I		
C SECURITY PANEL	500	20A-1P	11	C	12		4804		I		
SPARE		20A-1P	13	A	14	50A-3P	4804	GEN-5501 - JACKET WATER HEATER	I	2	
SPARE		20A-1P	15	B	16		4804		I		
SPARE		20A-1P	17	C	18	20A-1P		SPARE			
SPARE		20A-1P	19	A	20	20A-1P		SPARE			
SPARE		20A-1P	21	B	22	20A-1P		SPARE			
SPARE		20A-1P	23	C	24	20A-1P		SPARE			
SPARE		20A-1P	25	A	26	20A-1P		SPARE			
I UPS-CPS	2800	70A-2P	27	B	28	20A-1P		SPARE			
I	1500		29	C	30	20A-1P		SPARE			
SPARE		20A-1P	31	A	32	20A-1P		SPARE			
SPARE		20A-1P	33	B	34	20A-1P		SPARE			
SPARE		20A-1P	35	C	36	20A-1P		SPARE			
SPARE		20A-1P	37	A	38	20A-1P		SPARE			
SPARE		20A-1P	39	B	40	20A-1P		SPARE			
SPARE		20A-1P	41	C	42	20A-1P		SPARE			

BID SET				DESIGNED SKB								JORDAN VALLEY WATER TREATMENT PLANT		VERIFY SCALES	JOB NO. 202001.10
				DRAWN MNH								FILTER AND CHEMICAL FEED UPGRADES		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 04E07
				CHECKED GCE								ELECTRICAL		0  1"	
				DATE FEBRUARY 2025								PANELBOARD SCHEDULE 7		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 327 OF 531

Plot Date: 1/31/2025 11:36:07 AM

A

B

C

D

E

F

G

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B

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E

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KEY NOTES:

- EXISTING PANELBOARD.
- PROVIDE NEW CIRCUIT BREAKER FOR NEW LOAD.
- DEMOLISH EXISTING CIRCUIT(S), PROVIDE NEW PANEL SCHEDULE AND LABEL THE CIRCUIT(S) AS SPARE.
- DISCONNECT POWER FROM THIS CIRCUIT BREAKER AND TEMPORARILY RE-FEED THE CULINARY RESERVOIR CIRCUIT DURING CONSTRUCTION FROM PNL-CELL THROUGH A STEP-UP TRANSFORMER. REFER TO DRAWING 01E02.
- DURING CONSTRUCTION, TEMPORARILY RE-FEED THE CULINARY RESERVOIR CIRCUIT SODA BUILDING IS ENERGIZED AND OPERATIONAL, PERMANENTLY POWER THE CULINARY RESERVOIR CIRCUIT FROM PP-CS.
- PANEL WILL BE TEMPORARILY POWERED BY A 120/240V, SINGLE PHASE SOURCE. USE ONLY PHASES A AND B FOR LOADS WHILE CONNECTED TO THE TEMPORARY POWER SOURCE. THE PERMANENT POWER SOURCE WILL BE 120/208V, 3-PHASE.

PANEL PNL-CELL													1/31/2025
LOCATION: SOUTH GATE/CELL TOWER AREA				NEMA: 4X		PH A WEIGHTED VA		3719					
VOLTS: 208/120				FEED: BOTTOM		PH B WEIGHTED VA		1525					
PHASE & WIRE: 3 PH 4W				MTG: SURFACE		PH C WEIGHTED VA		0					
INTERRUPT: 18 KAIC				BUS RATING: 100									
OPTIONS: SPD				MAIN: CB		EQUIP SIZING VA		11156					
				MAIN RATING: 100 AF 50 AT		PANEL AMPS		31.0					
I/C/S DESCRIPTION		LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION			I/C/S	
C	SOUTH SECURITY GATE	1800	20A-1P	1	A	2	15A-1P	600	ELECTRONIC EQUIPMENT ENCLOSURE			C	
C	CCTV CAMERA	360	20A-1P	3	B	4	20A-1P		SPARE				
	SPARE		20A-1P	5	C	6	20A-1P		SPARE				
C	POLE LIGHT	75	20A-1P	7	A	8	20A-2P	500	CULINARY RESERVOIR LIGHT FOR SECURITY (TEMP POWER)			C	
C	BACKWASH RESERVOIR LEVEL TRANSMITTER HEATER	360	15A-1P	9	B	10		500	VIA STEP-UP TRANSFORMER			C	
	SPARE		20A-1P	11	C	12	20A-1P		SPARE				
	SPARE		20A-1P	13	A	14	20A-1P		SPARE				
	SPARE		20A-1P	15	B	16	20A-1P		SPARE				
	SPARE		20A-1P	17	C	18	20A-1P		SPARE				

PANEL PNL-B1											1/24/2025
LOCATION: FILTER BUILDING LEVEL 2 ELECTRICAL ROOM				NEMA: 1		PH A WEIGHTED VA		0			
VOLTS: 240/120				FEED: TOP		PH B WEIGHTED VA		0			
PHASE & WIRE: 1 PH 3W				MTG. SURFACE							
INTERRUPT: 10 KAIC				BUS RATING: 100		EQUIP SIZING VA		0			
				MAIN: 0.0		PANEL AMPS		0.0			
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S	
	MICRO WAVE RADIO		20A-1P	1	A	2	20A-1P		CHLORINE HEATERS		
	MICRO WAVE RADIO		20A-1P	3	B	4	20A-1P		SPARE		
	FVV-3003		20A-1P	5	A	6	20A-1P		NEW CONTROL PANEL		
	FVV-3023		20A-1P	7	B	8	20A-1P		SPARE		
	FVV-3043		20A-1P	9	A	10	20A-1P		SPARE		
	FVV-3063		20A-1P	11	B	12	20A-1P		LABORATORY		
	FVV-3083		20A-1P	13	A	14	20A-1P		SPARE		
	FVV-3103		20A-1P	15	B	16	20A-1P		SPARE		
	SPCP-SSH		20A-1P	17	A	18	20A-1P		NORTH EAST HEATERS		
	LTS 2016, 2017		20A-1P	19	B	20	20A-1P		NORTH WEST HEATERS		
	LTS 2018, 2019, 2023		20A-1P	21	A	22	20A-1P		SOUTH EAST HEATERS		
	LEVEL 2 NIGHT LIGHT		20A-1P	23	B	24	20A-1P		SOUTH WEST HEATERS		
	LTS 2006, 2007, 2015		20A-1P	25	A	26	20A-1P		6TH FLOOR RADIO RECEPTACLES		
	NO.2 STAIRWELL LTS.		20A-1P	27	B	28	20A-1P		6TH FLOOR RADIO RECEPTACLES		
	LTS 2022, 2024		20A-1P	29	A	30	20A-1P		GLYCOL PUMP		
	NO. 1 Stairwell LTS.		20A-1P	31	B	32	20A-1P		LEV 2 FIRE DAMPERS		
	ELECTRONICS ROOM OUTLETS		20A-1P	33	A	34	20A-1P		ELV. LOBBY LIGHTS		
	DOOR BELL TRANSFORMER		20A-1P	35	B	36	20A-1P		ELECT. JAN. ELECTRONICS ROOM LIGHTS		
	SPARE		20A-1P	37	A	38	20A-1P		LEV 2 REST ROOM LTS		
	MICRO-WAVE RADIO 120V OUTLET LEVEL 6		20A-1P	39	B	40	20A-1P		LTS 2001, 2002		
	SPARE		20A-1P	41	A	42	20A-1P		SPARE		

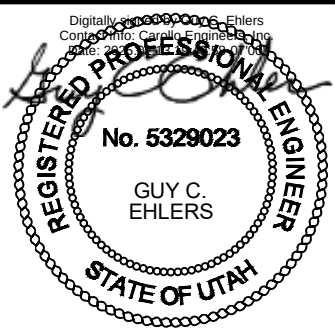
PANEL PNL-DP-CSS											1/24/2025
LOCATION: PRIMARY COAGULANT BUILDING											
VOLTS: 480		NEMA: 1		PH A WEIGHTED VA		0					
		FEED: TOP		PH B WEIGHTED VA		0					
PHASE & WIRES PH 3W		MTG. SURFACE		PH C WEIGHTED VA		0					
INTERRUPT: 42 KAIC		BUS RATING: 100									
		MAIN: MLO		EQUIP SIZING VA		0					
				PANEL AMPS		0.0					
I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S	
I	XFMR-CSS -	0	35A-2P	1	A	2					
I		0		3	B	4	15A-3P		WEST HEATER		
			15A-1P	5	C	6					
				7	A	8					
	EAST HEATER		15A-3P	9	B	10	20A-2P		LIGHT TOP TANK SECURITY		
				11	C	12					
	SPACE			13	A	14	20A-3P		WATER HEATER ALUM BUILDING		
	SPACE			15	B	16					
	SPACE			17	C	18			SPACE		

PANEL PNL-CSS-L											1/24/2025
LOCATION: PRIMARY COAGULANT BUILDING											
VOLTS: 240/120		NEMA: 1		PH A WEIGHTED VA		0					
PHASE & WIRE: 1 PH 3W		FEED: TOP		PH B WEIGHTED VA		0					
INTERRUPT: 10 KAIC		MTG: SURFACE									
		BUS RATING: 100									
		MAIN: CB		EQUIP SIZING VA		0					
		MAIN RATING: 100 AF 30 AT		PANEL AMPS		0.0					
I/C/S DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/S	
LIGHTS		20A-1P	1	A	2	20A-1P		RECEPTACLE			
NORTH FAN		20A-1P	3	B	4	20A-1P		SOUTH FAN			
ALUM TANK CONTROL PANEL		15A-1P	5	A	6	20A-1P		BACKWASH TANK HEATER			
SPARE		20A-1P	7	B	8	20A-1P		EXTERIOR BUILDING LIGHTS (SOUTH)			
LIGHTING LOWER AREA ALUM BUILDING		20A-1P	9	A	10	20A-1P		SW EXTERIOR LIGHT			
SPACE			11	B	12	20A-1P		PEC TRANSFER PUMP			
SPACE			13	A	14	20A-1P		PACL TRANSFER PUMP			
BLANK			15	B	16			BLANK			
BLANK			17	A	18			BLANK			

REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			

BID SET

DESIGNED	SKB
DRAWN	MNH
CHECKED	GCE
DATE	FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT

FILTER AND CHEMICAL FEED UPGRADES

ELECTRICAL

PANELBOARD SCHEDULE 8

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202001.10

DRAWING NO. 04E08

SHEET NO. 328 OF 531

PROJECT NO. 202001-100000 FILE NAME: 20200105E01.dwg

Plot Date: 9/12/2022 7:29:07 AM

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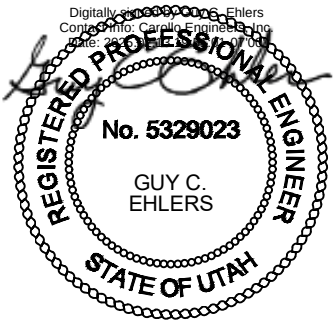
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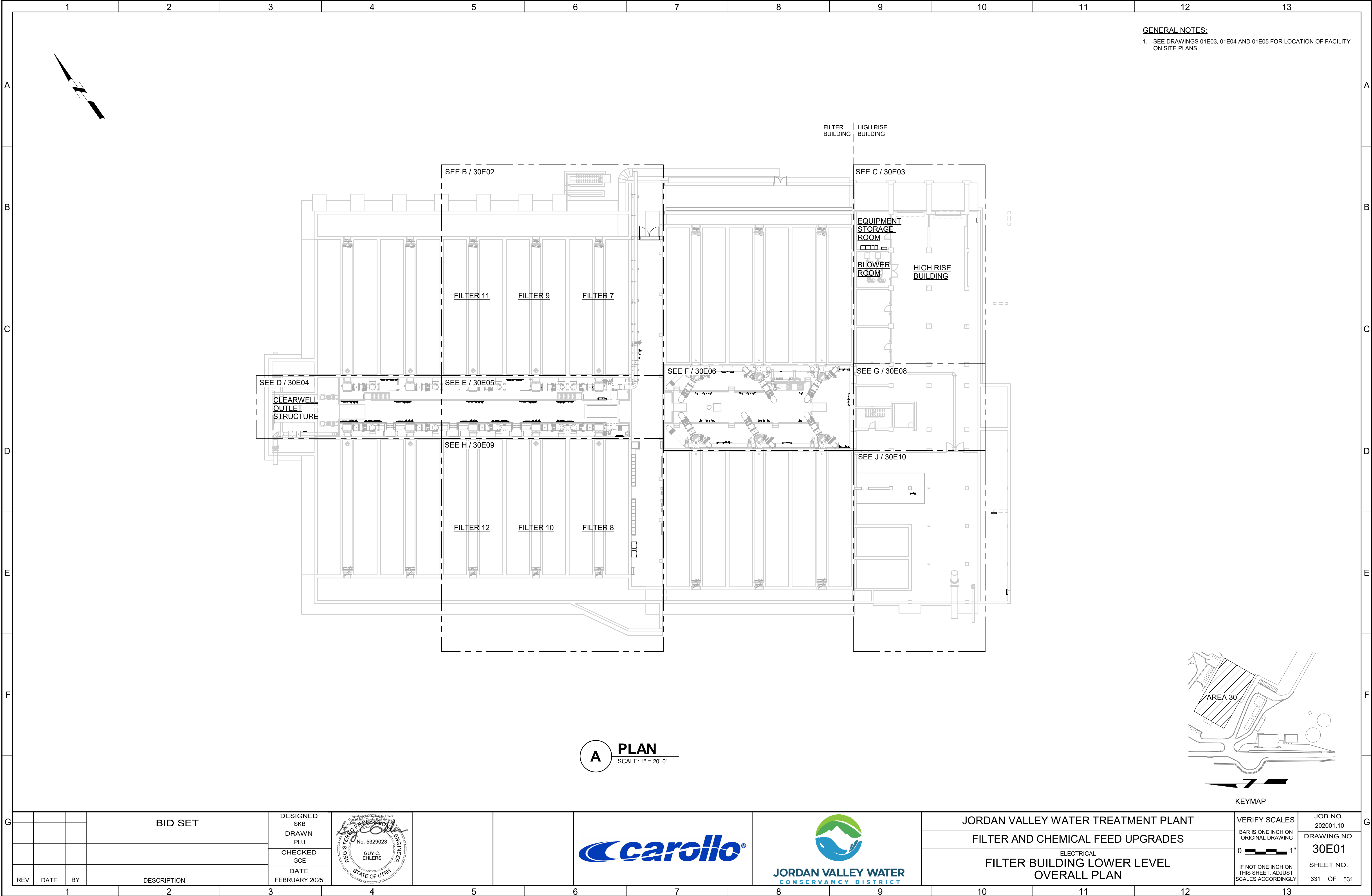
G

ELECTRICAL HANDHOLE AND MANHOLE SCHEDULE										1/28/2025
TAG NO	MINIMUM INTERIOR DIMENSIONS (INCHES)			CONSTRUCTION	TYPICAL DETAIL	SURFACE LOADING	COMMENTS			
	WIDTH	LENGTH	DEPTH							
PB-12	48	48	48	PRECAST	EM056	ROADWAY				
PB-13	48	48	48	PRECAST	EM056	SIDEWALK				
PB-14	48	48	48	PRECAST	EM056	ROADWAY				
PB-15	48	48	48	PRECAST	EM056	SIDEWALK				
PB-16	48	48	48	PRECAST	EM251	SIDEWALK				
PB-17	48	48	48	PRECAST	EM056	ROADWAY				
PB-18	48	48	48	PRECAST	EM056	SIDEWALK				
HH-101	24	48	24	PRECAST POLYMER	EM052	SIDEWALK				

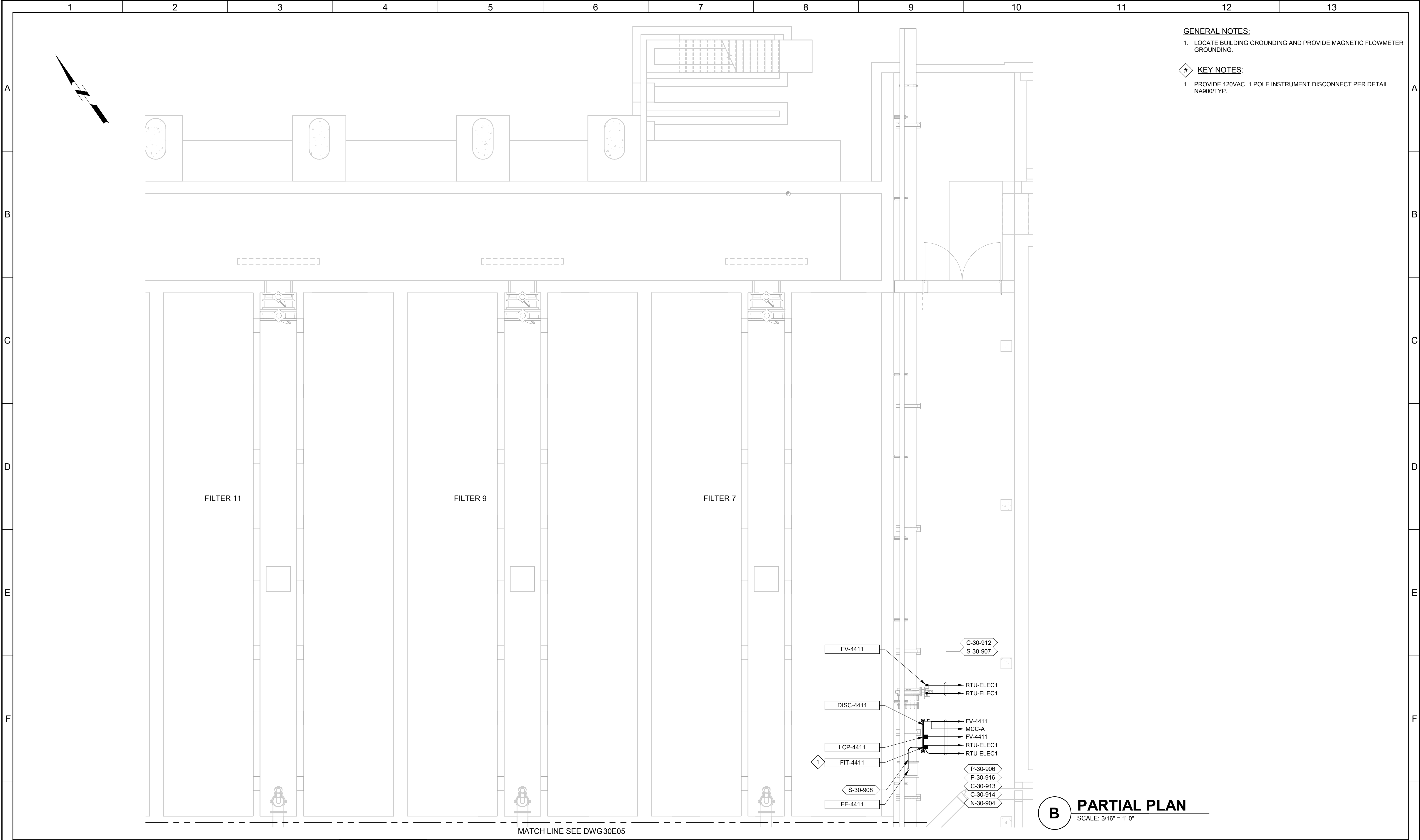
NOTES:
1. SEE SPECIFICATION 02581 FOR PRECAST ELECTRICAL HANDHOLES AND MANHOLES.

DISCONNECT SCHEDULE										1/31/2025
TAG	VOLTAGE	POLES	AMPS	NEMA TYPE	TYPE	HORSEPOWER	FUSE SIZE	BREAKER AF/AT	ACCESSORIES	
A	600 VAC	3P	30A	4	NON-FUSED					
B	600 VAC	3P	30A	4X-SS	NON-FUSED					
C	600 VAC	3P	30A	12	NON-FUSED					
J	240 VAC	2P	60A	1	NON-FUSED				5	
S	600 VAC	3P	30A	9	NON-FUSED					
ACCESSORIES										1= "B" TYPE ELECTRICAL INTERLOCK FOR POSITION INDICATION 2= INSULATED GROUNDABLE NEUTRAL KIT 3= DRAIN AND BREATHER KIT WHEN OUTDOORS 4= EARLY BREAK AUXILIARY CONTACT 5= PROVIDE SEPARATE NEUTRAL AND GROUND TERMINALS

REV	DATE	BY	DESCRIPTION	DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT	VERIFY SCALES	JOB NO. 202001.10
				DRAWN DJB						FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE						ELECTRICAL	0  1"	05E02
				DATE FEBRUARY 2025						MANHOLE, HANDHOLE & DISCONNECT SCHEDULES	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 330 OF 531

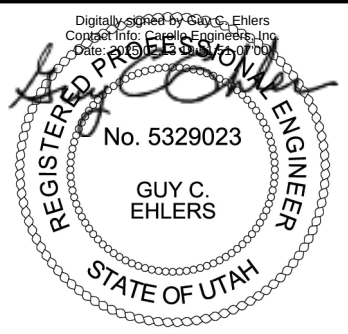


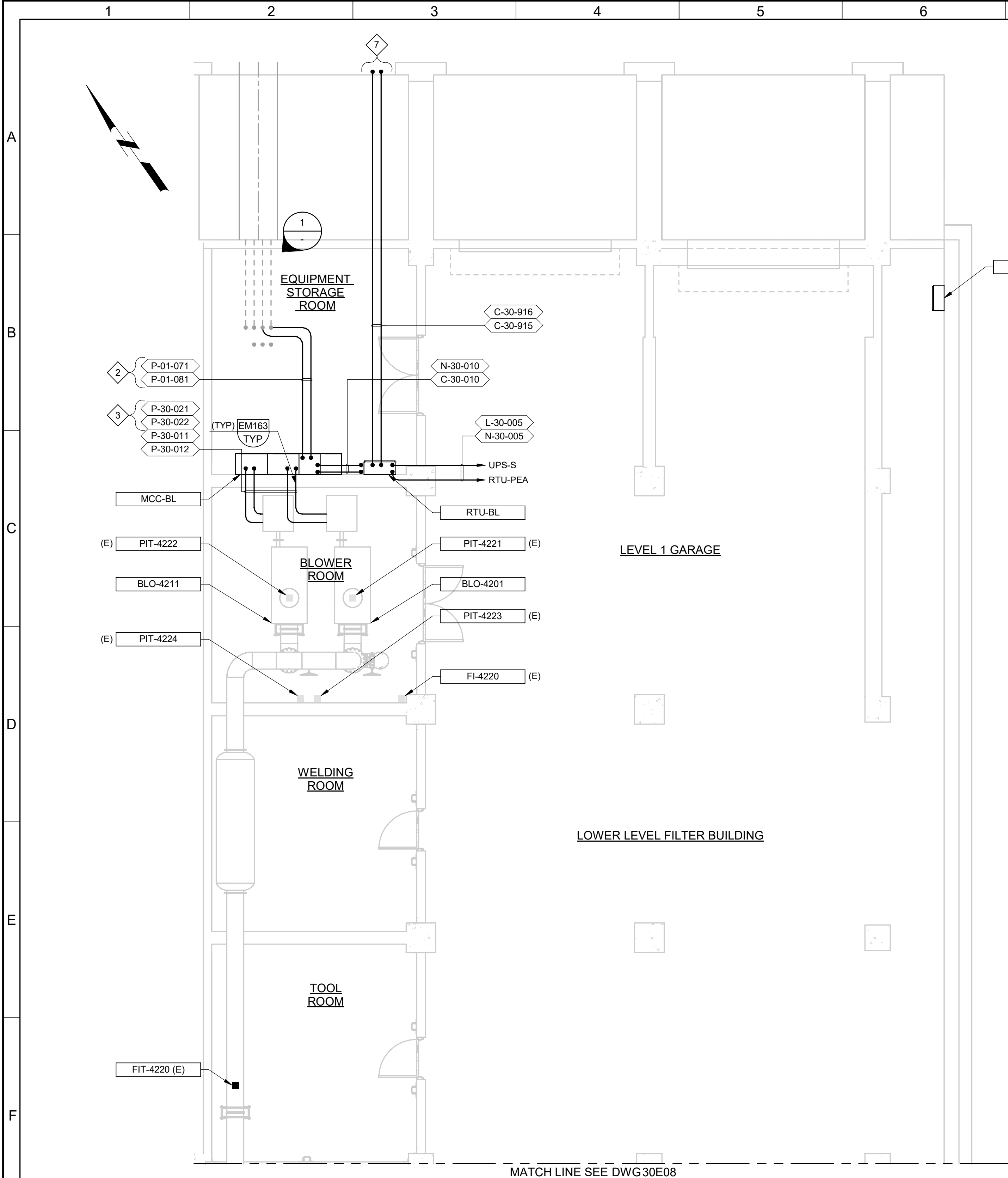
PLOT DATE: 2/10/2025 4:49:32 PM



- GENERAL NOTES:**
1. LOCATE BUILDING GROUNDING AND PROVIDE MAGNETIC FLOWMETER GROUNDING.
- KEY NOTES:**
1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.

B PARTIAL PLAN
SCALE: 3/16" = 1'-0"

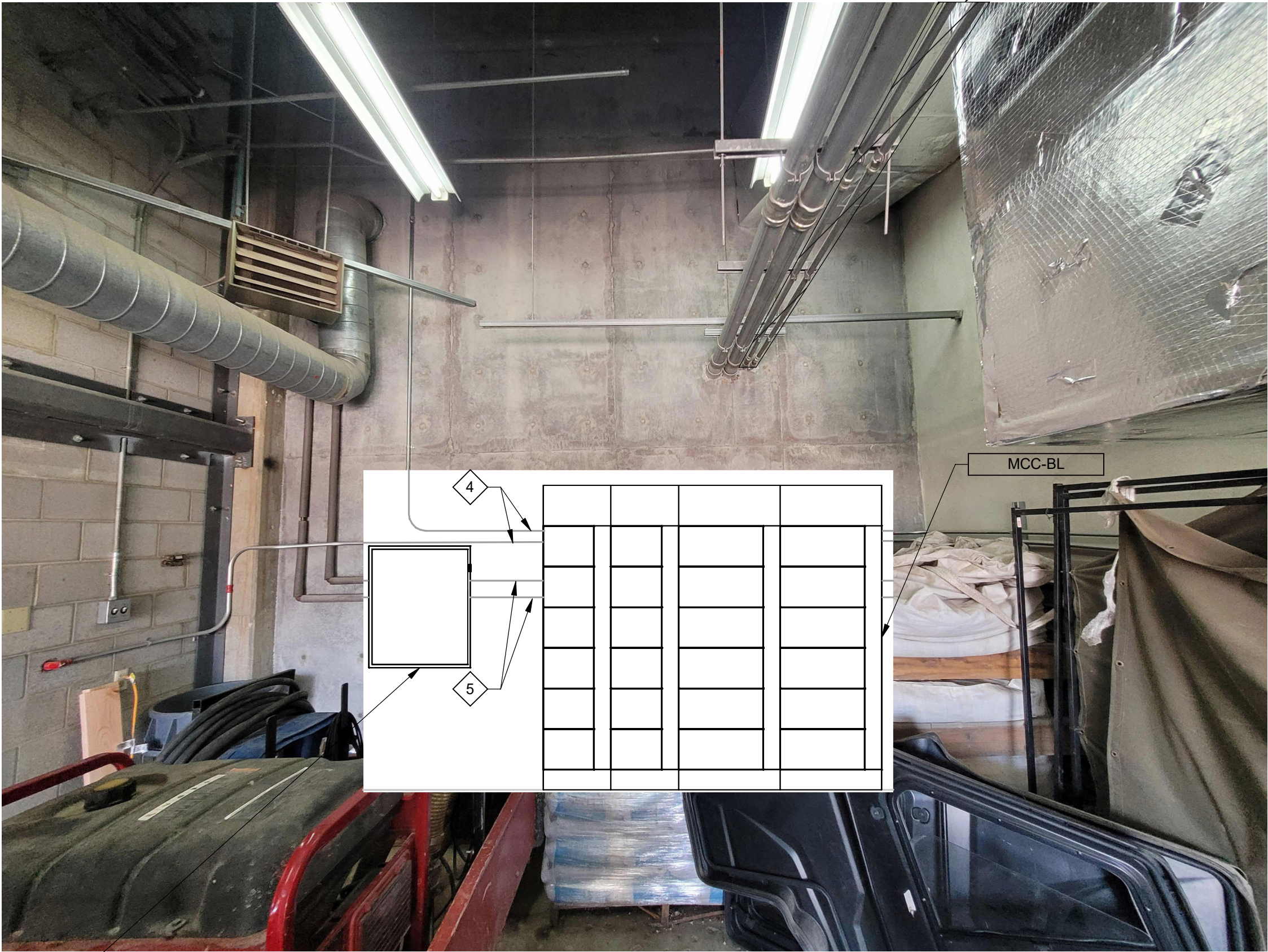
BID SET				DESIGNED SKB							JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
				DRAWN CLM							FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 30E02
				CHECKED GCE							ELECTRICAL			0 1"	SHEET NO.
				DATE FEBRUARY 2025							FILTER BUILDING AREA B LOWER LEVEL POWER AND CONTROL PLAN			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	332 OF 531
REV	DATE	BY	DESCRIPTION												
1															



C PLAN
SCALE: 3/16" = 1'-0"

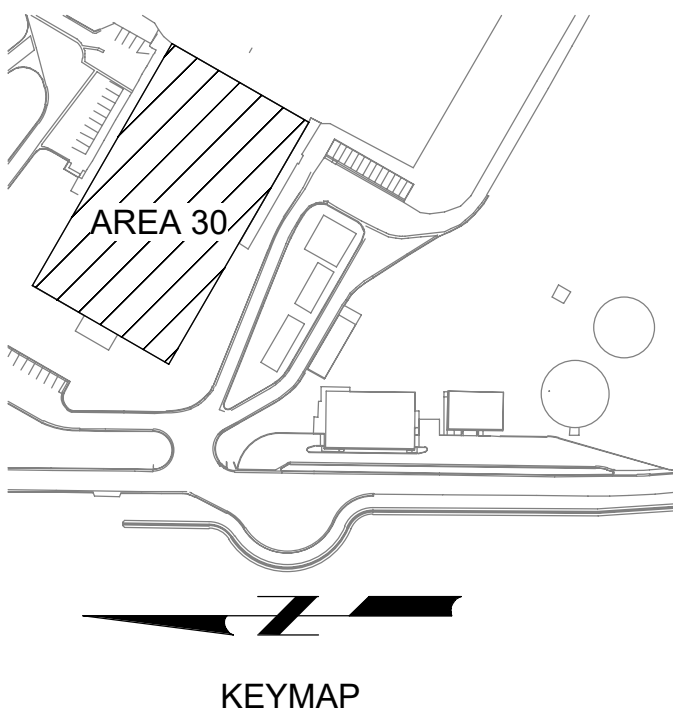


1 PHOTO
SCALE: NO SCALE



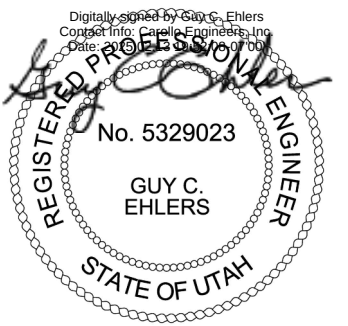
2 SECTION
SCALE: NO SCALE

- GENERAL NOTES:**
- NEW MCC SHOWN ON THIS DRAWING IS TALLER THAN THE DOORWAYS AND WILL NEED TO BE BROUGHT INTO THE BUILDING ON ITS SIDE. COORDINATE WITH MANUFACTURER FOR PROPER BRACING AND SUPPORTS TO PROTECT EQUIPMENT DURING INSTALLATION.
- KEY NOTES:**
- INTERCEPT EXISTING POWER CONDUITS FROM PB #7 TO THE EXISTING BLOWERS.
 - ROUTE VIA EXISTING INTERCEPTED CONDUITS TO PB #7.
 - AT CONTRACTOR'S DISCRETION, THE EXISTING CONDUITS MAY BE REUSED AS A PATH BETWEEN BLOWER BLO-4211, BLO-4201 AND THE NEW MCC.
 - RELOCATE EXISTING LIGHTING AND FIRE ALARM CONDUITS.
 - RELOCATE EXISTING HOT WATER SUPPLY AND RETURN LINES.
 - DEMOLISH TWO SOLENOID CONDUITS AND RE-ROUTE TO NEW MCC-BL.
 - CONDUITS CONTINUE ON DRAWING 01E05.
 - CAP EXISTING CONDUITS.



BID SET			
REV	DATE	BY	DESCRIPTION
1			
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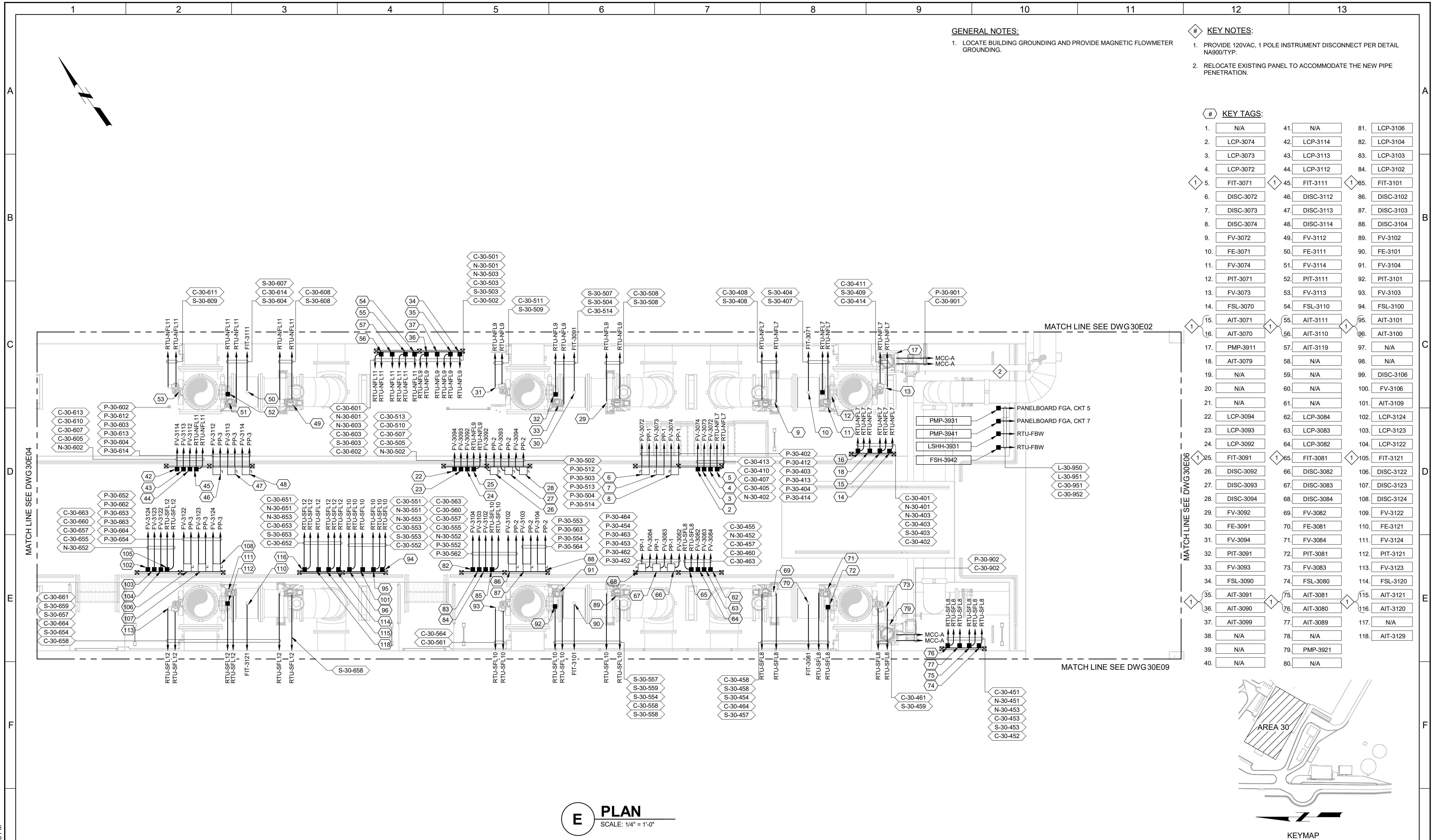
DESIGNED
SKB
DRAWN
PLU
CHECKED
GCE
DATE
FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
HIGH RISE BUILDING AREA C LOWER LEVEL
POWER AND CONTROL PLAN

VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

JOB NO.
202001.10
DRAWING NO.
30E03
SHEET NO.
333 OF 531



GENERAL NOTES:

1. LOCATE BUILDING GROUNDING AND PROVIDE MAGNETIC FLOWMETER GROUNDING.

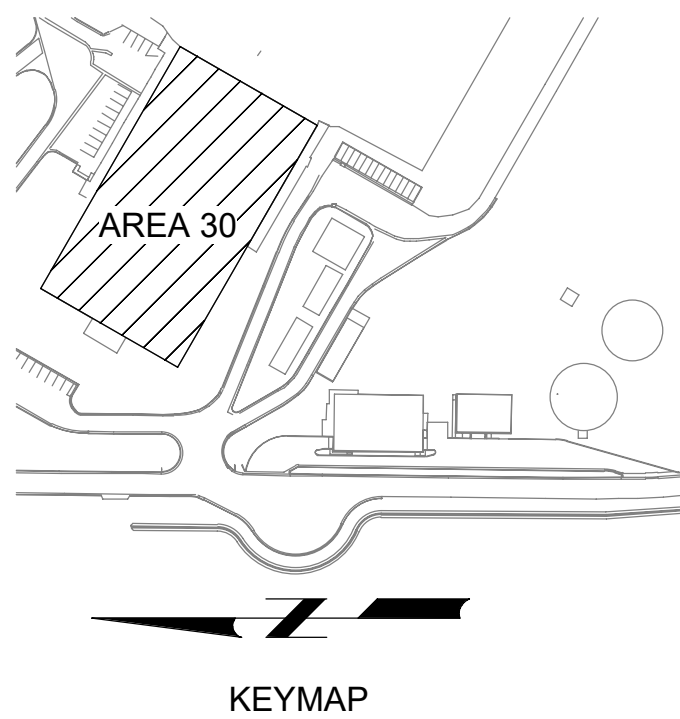
KEY NOTES:

1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.
2. RELOCATE EXISTING PANEL TO ACCOMMODATE THE NEW PIPE PENETRATION.

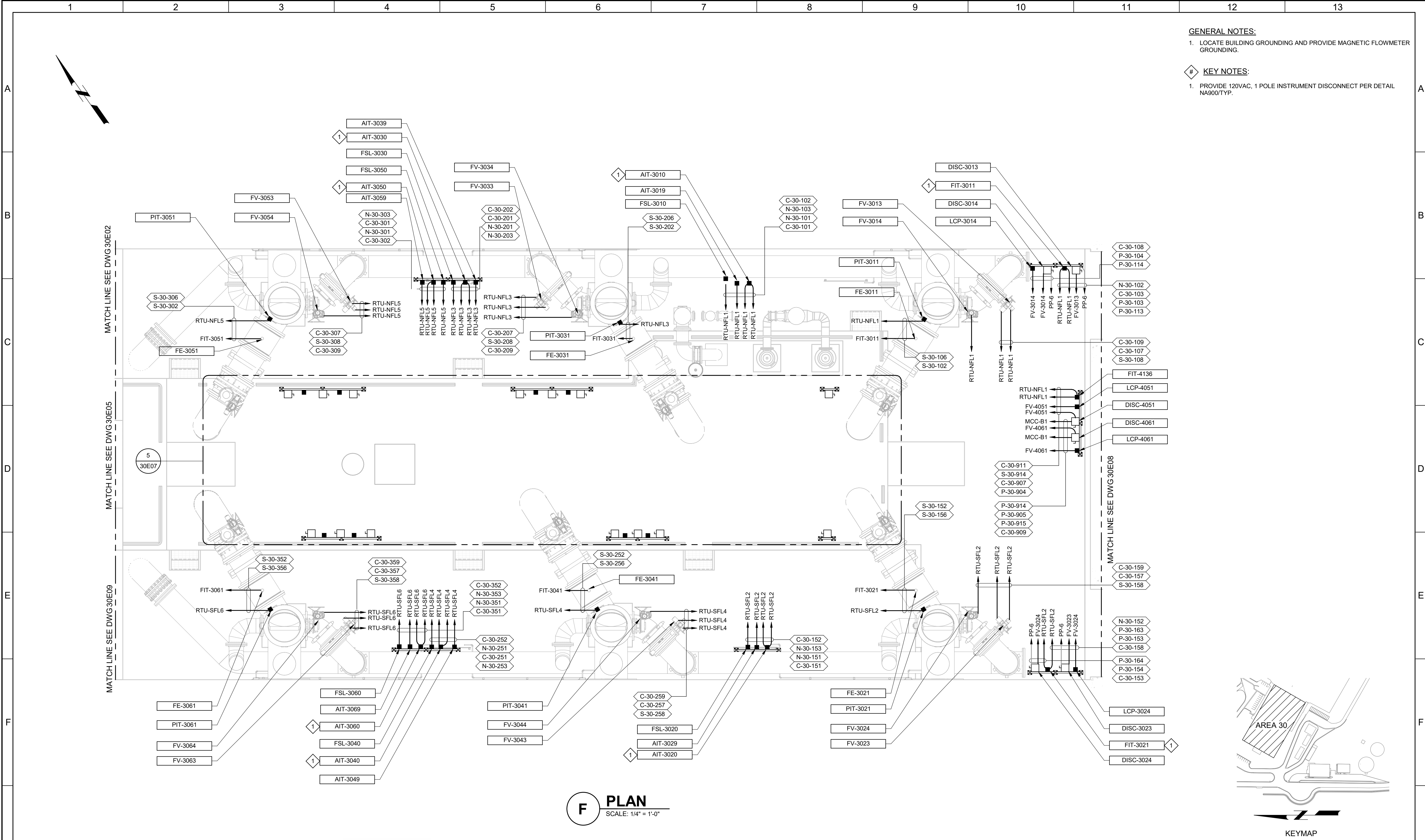
KEY TAGS:

1. N/A	41. N/A	81. LCP-3106
2. LCP-3074	42. LCP-3114	82. LCP-3104
3. LCP-3073	43. LCP-3113	83. LCP-3103
4. LCP-3072	44. LCP-3112	84. LCP-3102
5. FIT-3071	45. FIT-3111	85. FIT-3101
6. DISC-3072	46. DISC-3112	86. DISC-3102
7. DISC-3073	47. DISC-3113	87. DISC-3103
8. DISC-3074	48. DISC-3114	88. DISC-3104
9. FV-3072	49. FV-3112	89. FV-3102
10. FE-3071	50. FE-3111	90. FE-3101
11. FV-3074	51. FV-3114	91. FV-3104
12. PIT-3071	52. PIT-3111	92. PIT-3101
13. FV-3073	53. FV-3113	93. FV-3103
14. FSL-3070	54. FSL-3110	94. FSL-3100
15. AIT-3071	55. AIT-3111	95. AIT-3101
16. AIT-3070	56. AIT-3110	96. AIT-3100
17. PMP-3911	57. AIT-3119	97. N/A
18. AIT-3079	58. N/A	98. N/A
19. N/A	59. N/A	99. DISC-3106
20. N/A	60. N/A	100. FV-3106
21. N/A	61. N/A	101. AIT-3109
22. LCP-3094	62. LCP-3084	102. LCP-3124
23. LCP-3093	63. LCP-3083	103. LCP-3123
24. LCP-3092	64. LCP-3082	104. LCP-3122
25. FIT-3091	65. FIT-3081	105. FIT-3121
26. DISC-3092	66. DISC-3082	106. DISC-3122
27. DISC-3093	67. DISC-3083	107. DISC-3123
28. DISC-3094	68. DISC-3084	108. DISC-3124
29. FV-3092	69. FV-3082	109. FV-3122
30. FE-3091	70. FE-3081	110. FE-3121
31. FV-3094	71. FV-3084	111. FV-3124
32. PIT-3091	72. PIT-3081	112. PIT-3121
33. FV-3093	73. FV-3083	113. FV-3123
34. FSL-3090	74. FSL-3080	114. FSL-3120
35. AIT-3091	75. AIT-3081	115. AIT-3121
36. AIT-3090	76. AIT-3080	116. AIT-3120
37. AIT-3099	77. AIT-3089	117. N/A
38. N/A	78. N/A	118. AIT-3129
39. N/A	79. PMP-3921	
40. N/A	80. N/A	

E PLAN
SCALE: 1/4" = 1'-0"

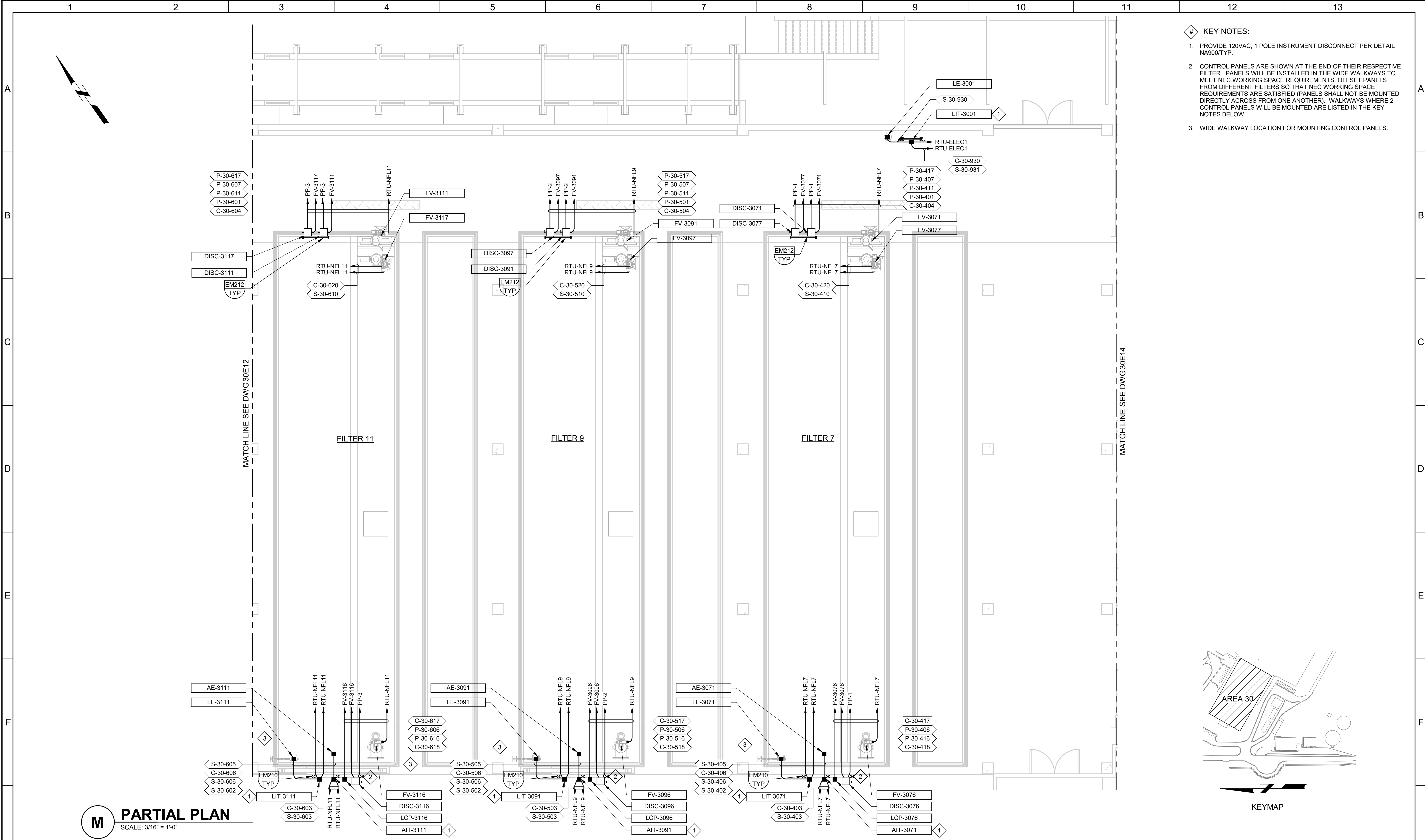


BID SET				DESIGNED SKB										JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
				DRAWN PLU										FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE										ELECTRICAL				0 1"	30E05
				DATE FEBRUARY 2025										FILTER BUILDING AREA E LOWER LEVEL POWER AND CONTROL PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	BY	DESCRIPTION																335 OF 531
1																			

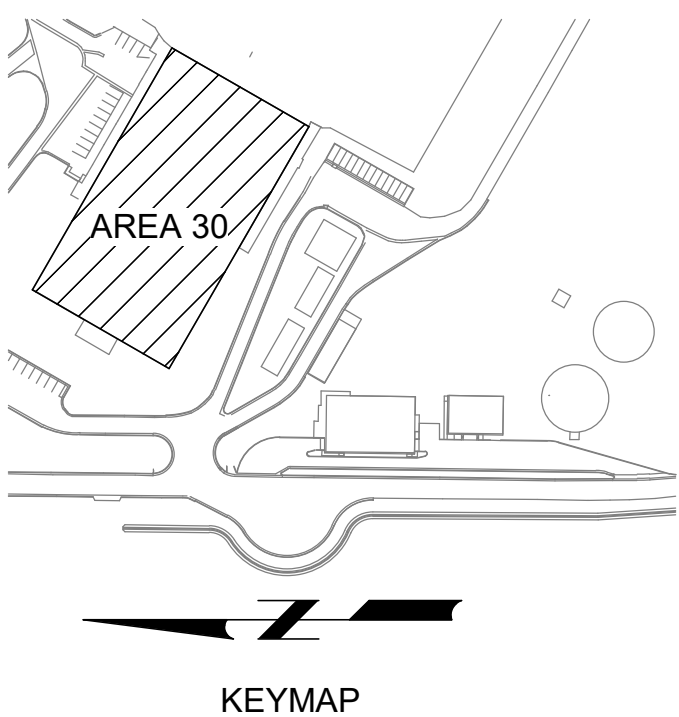


- GENERAL NOTES:**
1. LOCATE BUILDING GROUNDING AND PROVIDE MAGNETIC FLOWMETER GROUNDING.
- KEY NOTES:**
1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.

BID SET			DESIGNED SKB								JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
			DRAWN PLU								FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
			CHECKED GCE								ELECTRICAL			0 1"	30E06
			DATE FEBRUARY 2025								FILTER BUILDING AREA F LOWER LEVEL POWER AND CONTROL PLAN			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	BY	DESCRIPTION												336 OF 531
1															



- # KEY NOTES:
1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.
 2. CONTROL PANELS ARE SHOWN AT THE END OF THEIR RESPECTIVE FILTER. PANELS WILL BE INSTALLED IN THE WIDE WALKWAYS TO MEET NEC WORKING SPACE REQUIREMENTS. OFFSET PANELS FROM DIFFERENT FILTERS SO THAT NEC WORKING SPACE REQUIREMENTS ARE SATISFIED (PANELS SHALL NOT BE MOUNTED DIRECTLY ACROSS FROM ONE ANOTHER). WALKWAYS WHERE 2 CONTROL PANELS WILL BE MOUNTED ARE LISTED IN THE KEY NOTES BELOW.
 3. WIDE WALKWAY LOCATION FOR MOUNTING CONTROL PANELS.



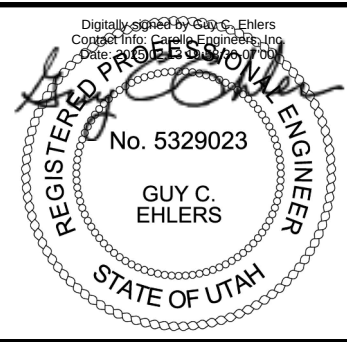
M PARTIAL PLAN
SCALE: 3/16" = 1'-0"

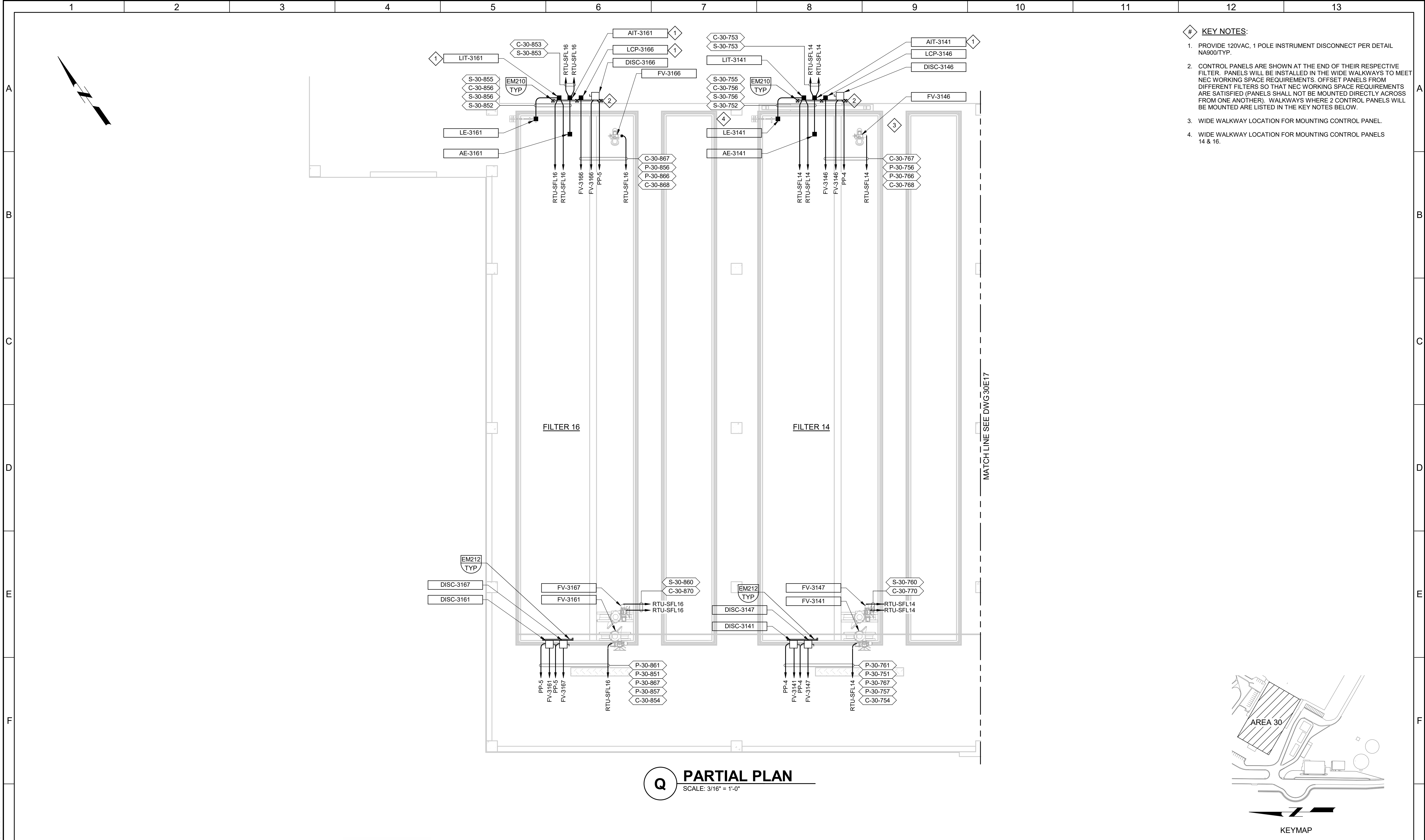
REV				DATE				BY				DESCRIPTION			
1				2				3				4			
DESIGNED				DRAWN				CHECKED				DATE			
SKB				PLU				GCE				FEBRUARY 2025			
JORDAN VALLEY WATER				CONSERVANCY DISTRICT				JORDAN VALLEY WATER				TREATMENT PLANT			
ELECTRICAL				FILTER BUILDING AREA M UPPER LEVEL				POWER AND CONTROL PLAN				JORDAN VALLEY WATER TREATMENT PLANT			
VERIFICATION				SCALE				JOB NO.				202001.10			
0				1"				DRAWING NO.				30E13			
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY				SHEET NO.				343 OF 531							

PLOT DATE: 2/10/2025 4:48:54 PM

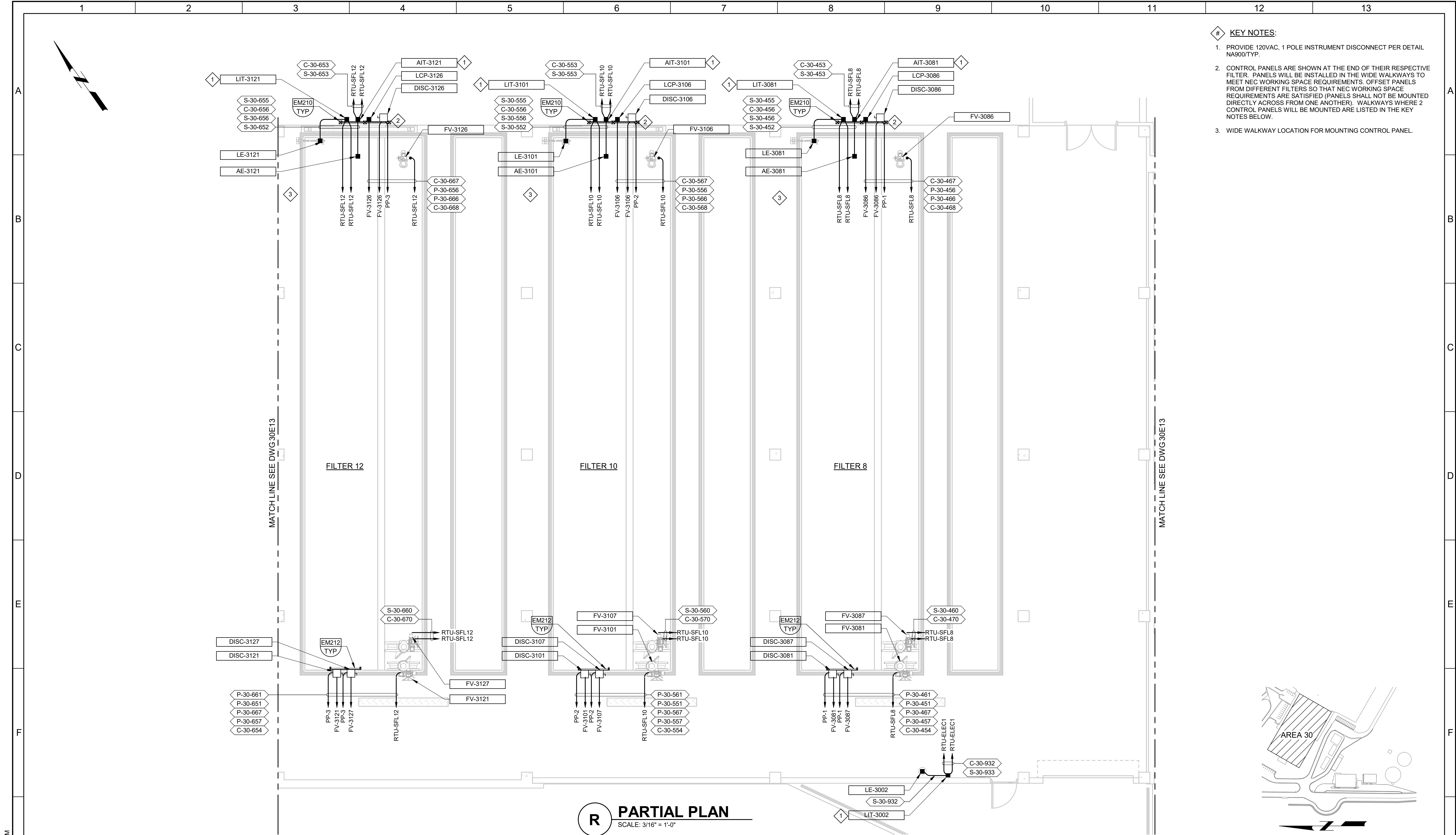


P PARTIAL PLAN
SCALE: 3/16" = 1'-0"

G				BID SET	DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10	G
					DRAWN PLU						FILTER AND CHEMICAL FEED UPGRADES	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 30E15			
					CHECKED GCE						ELECTRICAL FILTER BUILDING AREA P UPPER LEVEL POWER AND CONTROL PLAN	0 1"	SHEET NO. 345 OF 531			
					DATE FEBRUARY 2025											
	REV	DATE	BY	DESCRIPTION												
1			2	3	4	5	6	7	8	9	10	11	12	13		

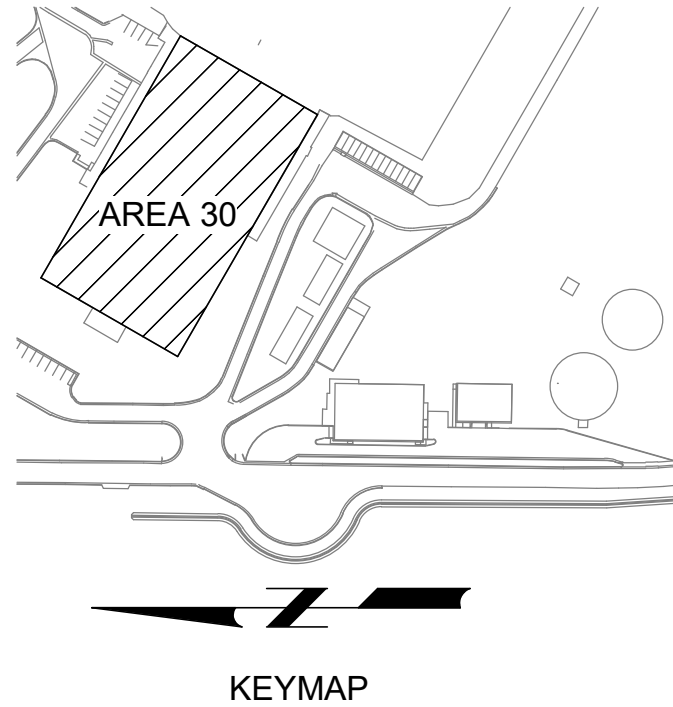


BID SET				DESIGNED CLM										JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
				DRAWN PLU										FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE										ELECTRICAL				0 1"	30E16
				DATE FEBRUARY 2025										FILTER BUILDING AREA Q UPPER LEVEL POWER AND CONTROL PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	BY	DESCRIPTION																346 OF 531
1																			



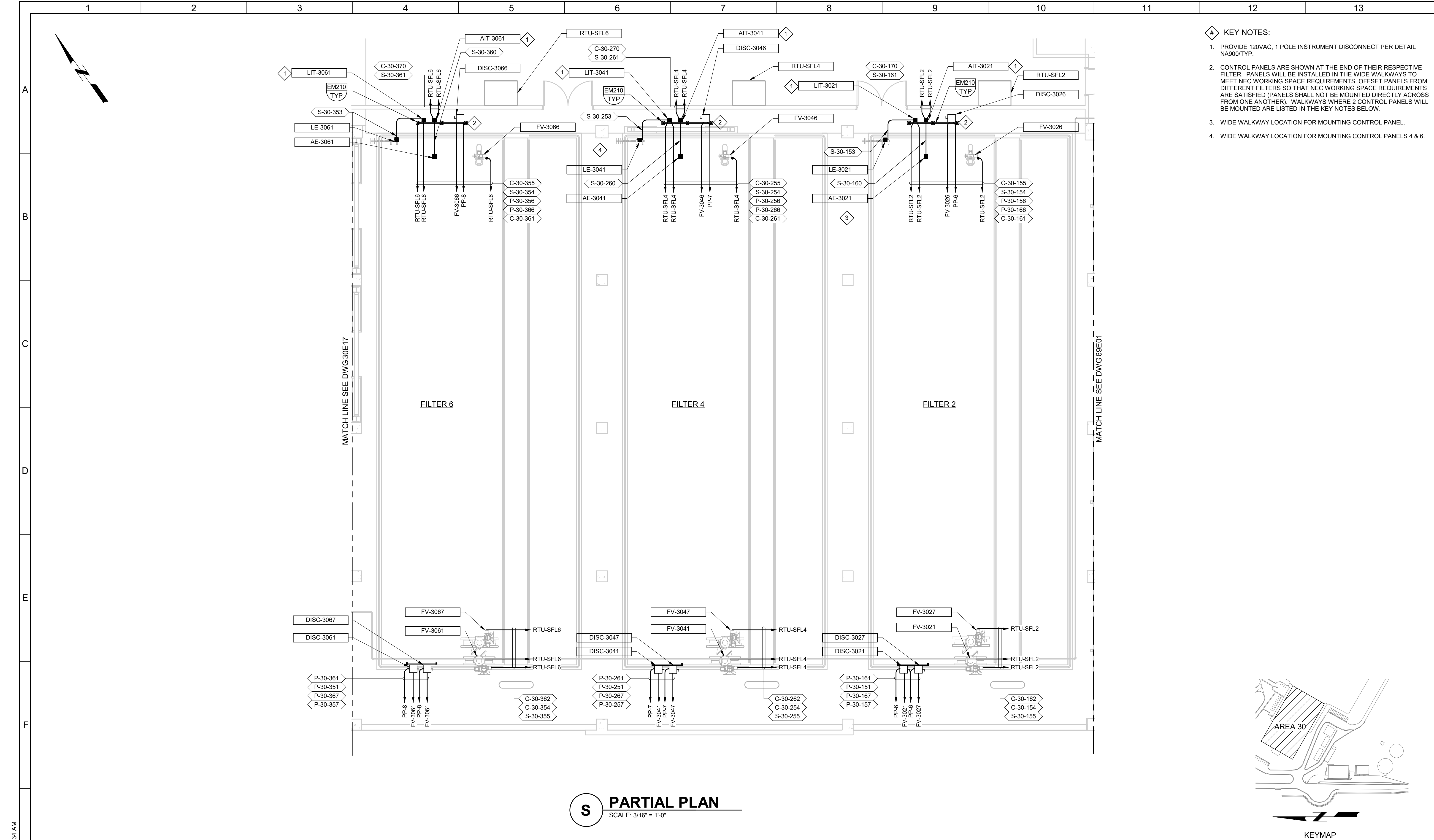
- # KEY NOTES:
1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.
 2. CONTROL PANELS ARE SHOWN AT THE END OF THEIR RESPECTIVE FILTER. PANELS WILL BE INSTALLED IN THE WIDE WALKWAYS TO MEET NEC WORKING SPACE REQUIREMENTS. OFFSET PANELS FROM DIFFERENT FILTERS SO THAT NEC WORKING SPACE REQUIREMENTS ARE SATISFIED (PANELS SHALL NOT BE MOUNTED DIRECTLY ACROSS FROM ONE ANOTHER). WALKWAYS WHERE 2 CONTROL PANELS WILL BE MOUNTED ARE LISTED IN THE KEY NOTES BELOW.
 3. WIDE WALKWAY LOCATION FOR MOUNTING CONTROL PANEL.

R PARTIAL PLAN
SCALE: 3/16" = 1'-0"



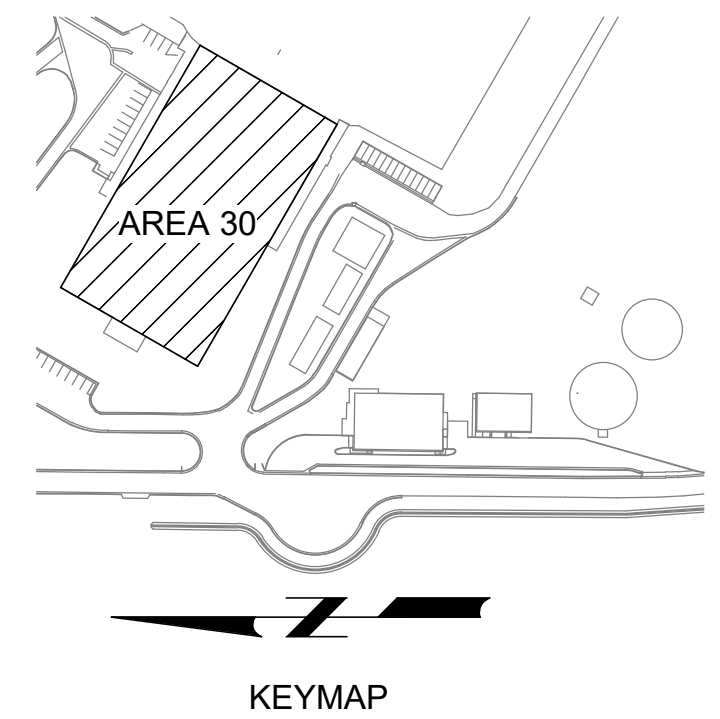
PLOT DATE: 2/11/2025 10:36:28 AM

BID SET				DESIGNED SKB										JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
				DRAWN CLM										FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE										ELECTRICAL				0 1"	30E17
				DATE FEBRUARY 2025										FILTER BUILDING AREA R UPPER LEVEL POWER AND CONTROL PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 347 OF 531
REV	DATE	BY	DESCRIPTION																
1																			



- # KEY NOTES:
1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.
 2. CONTROL PANELS ARE SHOWN AT THE END OF THEIR RESPECTIVE FILTER. PANELS WILL BE INSTALLED IN THE WIDE WALKWAYS TO MEET NEC WORKING SPACE REQUIREMENTS. OFFSET PANELS FROM DIFFERENT FILTERS SO THAT NEC WORKING SPACE REQUIREMENTS ARE SATISFIED (PANELS SHALL NOT BE MOUNTED DIRECTLY ACROSS FROM ONE ANOTHER). WALKWAYS WHERE 2 CONTROL PANELS WILL BE MOUNTED ARE LISTED IN THE KEY NOTES BELOW.
 3. WIDE WALKWAY LOCATION FOR MOUNTING CONTROL PANEL.
 4. WIDE WALKWAY LOCATION FOR MOUNTING CONTROL PANELS 4 & 6.

S PARTIAL PLAN
SCALE: 3/16" = 1'-0"



PLOT DATE: 2/11/2025 10:19:34 AM

BID SET				DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
				DRAWN CLM						FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 30E18
				CHECKED GCE						ELECTRICAL			0 1"	SHEET NO.
				DATE FEBRUARY 2025						FILTER BUILDING AREA S UPPER LEVEL POWER AND CONTROL PLAN			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	348 OF 531
REV	DATE	BY	DESCRIPTION											
1														
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