ABBREVIATIONS

A	AMP
ABS	ABSOLUTE
AC	ALTERNATING CURRENT
ACK	ACKNOWLEDGE
ACTR	ACTUATOR
AF	AMP FRAME
AFC	AUTOMATIC FREQUENCY CONTROL
AIC	AMP INTERRUPTING CAPACITY
AM	AMMETER
ANN	ANNUNCIATOR
ANT	ANTENNA
APU	AUXILIARY POWER UNIT
ARM	ARMORED CABLE
AS	AMMETER SWITCH
ASYM	ASYMMETRICAL
AT	AMP TRIP
ATO	AUTOMATIC THROW OVER
ATP	AMMETER TEST POINT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO XFMR	AUTOMATIC TRANSFORMER
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
B	BELL
BAT	BATTERY
BFG	BELOW FINISHED GRADE
BHP	BRAKE HORSEPOWER
BKR	BREAKER
BRF	BELOW RAISED FLOOR
C	CONDUIT / CONTINUOUS LOAD
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTER CLOCKWISE
CKT	CIRCUIT
COAX	COAXIAL CABLE
COM	COMMON
COMM	COMMUNICATION
CPT	CONTROL POWER TRANSFORMER
CR	CONTROLLED RECEPTACLE
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CV	CONTROL VALVE
CW	CLOCKWISE / COOL WHITE
DC	DIRECT CURRENT
DCS	DISTRIBUTED CONTROL SYSTEM
DCU - X	DISTRIBUTED CONTROL UNIT NO. X
DEMO	DEMOLITION
DISC	DISCONNECT SWITCH
DM	DEMAND METER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DS	DOOR SWITCH
E/G	EMERGENCY GENERATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
ENT	ELECTRICAL NON-METALLIC TUBING
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
F	SUB-FED
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FLA	FULL LOAD AMPS
FLX	FLEXIBLE CONDUIT
FO	FIBER OPTIC
FRC	FIBERGLASS RIGID CONDUIT
FREQ	FREQUENCY
FU	FUSE
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
FWD	FORWARD
G	GROUND / EQUIPMENT GROUND / GROUND FAULT
GEN	GENERATOR
GRC	GALVANIZED STEEL RIGID CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER (RECEPTACLE)
GFI	GROUND FAULT INTERRUPTER (BREAKER)
GFR	GROUND FAULT RELAY
H	HOT-LEG
HF	HIGH FREQUENCY
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HSTAT	HUMIDISTAT
HV	HIGH VOLTAGE
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HZ	HERTZ
I	INSTANTANEOUS / INTERMITTENT LOAD
IC	INTERRUPTING CAPACITY
IJB	INSTRUMENT JUNCTION BOX
IMC	INTERMEDIATE METAL CONDUIT
INST	INSTANTANEOUS
INT	INTERLOCK
INTERCOM	INTERCOMMUNICATION
J	JUNCTION BOX
K	KEY INTERLOCK
KA	KILOAMP
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVAR (REACTANCE)
KW	KILOWATT
KWD	KILOWATT DEMAND
KWH	KILOWATT HOUR
L	LONG-TIME
L-B	LINE-BUS
L-G	LINE-GROUND
LA	LIGHTNING ARRESTOR
LBL	LABEL
LC	LIGHTING CONTACTOR
LCP- X	LOCAL CONTROL PANEL NO. X
LL	LEAD-LAG LOAD REACTOR
LP	LIGHT POLE
LP - X	LIGHTING PANEL NO. X
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
M-X	MOTOR CONTROLLER NO. X
MA	MILLIAMPERE
MCA	MOTOR CIRCUIT AMPS
MCC - X	MOTOR CONTROL CENTER NO. X
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE / MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MOD	MOTOR OPERATED DAMPER
MOV	METAL OXIDE VARISTOR
MPR	MOTOR PROTECTION RELAY
MS-X	MOTOR STARTER NO. X
MSP	MOTOR STARTING PANEL
MTO	MANUAL THROW OVER
MTR-X	MOTOR NO. X
MTS	MANUAL TRANSFER SWITCH
MV	MEGAVOLT
MVA	MEGAVOLT-AMPERES
MVS	MEDIUM VOLTAGE SWITCH
MW	MEGAWATT
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NFC	NONMETALLIC FLEXIBLE CONDUIT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NP	NAMEPLATE
O	OPEN OR OPENED
OH	OVERHEAD
OL	OVERLOAD RELAY
P	POLE
PA	PUBLIC ADDRESS
PB	PUSHBUTTON / PULL BOX
PCS	PVC COATED GALVANIZED STEEL CONDUIT
PCM	PROCESS CONTROL MODULE
PE	PHOTOCELL
PF	POWER FACTOR
PFCC	POWER FACTOR CORRECTION CAPACITOR
PFR	PHASE FAILURE RELAY
PH	PHASE
PNL	PANEL
PPX	POWER PANEL NO. X
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE RIGID PLASTIC CONDUIT
PWR	POWER
RAC	RIGID ALUMINUM CONDUIT
RECPT	RECEPTACLE
REV	REVERSE
RF	RADIO FREQUENCY
RMS	ROOT MEAN SQUARED
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVNR	REDUCED VOLTAGE NON-REVERSING
RVSS	REDUCED VOLTAGE SOLID STATE
S	SHIELD / SHORT-TIME
SA	SURGE ARRESTER
SC	SHORT CIRCUIT
SDBC	SOFT DRAWN BARE COPPER
SFL	SUB FEED LUGS
SLT	SEALTIGHT LIQUIDTIGHT FLEXIBLE CONDUIT
SM	SURFACE MOUNTED
SP	SINGLE POLE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SPKR	SPEAKER
SS	SOLID STATE
STB	SHORTING TERMINAL BLOCK
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
TACH	TACHOMETER
TB - X	TERMINAL BLOCK - UNIT X
TC	THERMOCOUPLE / TIME CLOCK / TRAY CABLE
TD	TEMPERATURE DETECTOR RELAY
TE	TOTALLY ENCLOSED
TEFC	TOTALLY ENCLOSED FAN COOLED
TENV	TOTALLY ENCLOSED NON-VENTILATED
TERM	TERMINAL
TJB	TERMINAL JUNCTION BOX
TM	THERMAL MAGNETIC
TP	TWISTED PAIR
TS	TEMPERATURE SWITCH
TS1W	TWO SPEED CONSEQUENT POLE, ONE WINDING
TS2W	TWO SPEED SEPARATE WINDING
TSTAT	THERMOSTAT
UHF	ULTRA HIGH FREQUENCY
UNG	UNGROUNDED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UVR	UNDER VOLTAGE RELAY
V	VOLT
VA	VOLT AMPERE
VAR	VARMETER
VCP	VENDOR CONTROL PANEL
VFD	VARIABLE FREQUENCY DRIVE
VHF	VERY HIGH FREQUENCY
VM	VOLTMETER
VP	VAPORPROOF
VR	VOLTAGE REGULATOR
VS	VOLTAGE SWITCH
VT	VOLTAGE TRANSFORMER
VTP	VOLTAGE TEST POINT
W	WATT / WEST
WT	WATER TIGHT
WP	WEATHER PROOF
XFMR	TRANSFORMER

NOTES:

1. REFER TO SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL ABBREVIATIONS.

POWER DEVICE FUNCTION NUMBERS

1 MASTER ELEMENT
2 TIME-DELAY STARTING OR CLOSING RELAY
3 CHECKING OR INTERLOCKING RELAY
4 MASTER CONTACTOR
5 STOPPING DEVICE
6 STARTING CIRCUIT BREAKER
7 ANODE CIRCUIT BREAKER
8 CONTROL POWER DISCONNECTING DEVICE
9 REVERSING DEVICE
10 UNIT SEQUENCE SWITCH
11 MULTIFUNCTION DEVICE
12 OVER-SPEED DEVICE
13 SYNCHRONOUS-SPEED DEVICE
14 UNDER-SPEED DEVICE
15 SPEED OR FREQUENCY MATCHING DEVICE
16 DATA COMMUNICATIONS DEVICE
17 SHUNTING OR DISCHARGE SWITCH
18 ACCELERATING OR DECELERATING DEVICE
19 STARTING-TO-RUNNING TRANSITION CONTACTOR
20 ELECTRICALLY OPERATED VALVE
21 DISTANCE RELAY
22 EQUALIZER CIRCUIT BREAKER
23 TEMPERATURE CONTROL DEVICE
24 VOLTS PER HERTZ RELAY
25 SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE
26 APPARATUS THERMAL DEVICE
27 UNDERVOLTAGE RELAY
27N GROUND FAULT UNDERVOLTAGE RELAY
28 FLAME DETECTOR
29 ISOLATING CONTACTOR
30 ANNUNCIATOR RELAY
31 SEPARATE EXCITATION DEVICE
32 DIRECTIONAL POWER RELAY
33 POSITION SWITCH
34 MASTER SEQUENCE DEVICE
35 BRUSH-OPERATING OR SLIP-RING SHORT-CIRCUITING DEVICE
36 POLARITY DEVICE
37 UNDERCURRENT OR UNDERPOWER RELAY
38 BEARING PROTECTIVE DEVICE
39 MECHANICAL CONDITION MONITOR
40 FIELD RELAY
41 FIELD CIRCUIT BREAKER
42 RUNNING CIRCUIT BREAKER
43 MANUAL TRANSFER OR SELECTOR DEVICE
44 UNIT SEQUENCE STARTING RELAY
45 ABNORMAL ATMOSPHERIC CONDITION MONITOR
46 REVERSE-PHASE OR BALANCE CURRENT RELAY
47 PHASE-BALANCE OR PHASE-SEQUENCE VOLTAGE RELAY
48 INCOMPLETE SEQUENCE RELAY
49 MACHINE OR TRANSFORMER THERMAL RELAY
50 INSTANTANEOUS OVERCURRENT RELAY
51 AC TIME OVERCURRENT RELAY
52 AC CIRCUIT BREAKER
53 FIELD EXCITATION RELAY
54 TURNING GEAR ENGAGING DEVICE
55 POWER FACTOR RELAY
56 FIELD APPLICATION RELAY
57 SHORT-CIRCUITING OR GROUNDING DEVICE
58 RECTIFICATION FAILURE RELAY
59 OVERVOLTAGE RELAY
60 VOLTAGE OR CURRENT BALANCE RELAY
61 DENSITY SWITCH OR SENSOR
62 TIME-DELAY STOPPING OR OPENING RELAY
63 PRESSURE SWITCH
64 GROUND DETECTOR RELAY
65 GOVERNOR
66 NOTCHING OR JOGGING DEVICE
67 AC DIRECTIONAL OVERCURRENT RELAY
68 BLOCKING OR OUT OF STEP RELAY
69 PERMISSIVE CONTROL DEVICE
70 RHEOSTAT
71 LIQUID LEVEL SWITCH
72 DC CIRCUIT BREAKER
73 LOAD-RESISTOR CONTACTOR
74 ALARM RELAY
75 POSITION CHANGING MECHANISM
76 DC OVERCURRENT RELAY
77 TELEMETERING DEVICE
78 PHASE-ANGLE MEASURING RELAY
79 AC RECLOSING RELAY
80 FLOW SWITCH
81 FREQUENCY RELAY
82 DC LOAD MEASURING RECLOSING RELAY
83 AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
84 OPERATING MECHANISM
85 PILOT COMMUNICATIONS, CARRIER OR PILOT-WIRE RELAY
86 LOCKOUT RELAY
87 DIFFERENTIAL PROTECTIVE RELAY
88 AUXILIARY MOTOR OR MOTOR GENERATOR
89 LINE SWITCH
90 REGULATING DEVICE
91 VOLTAGE DIRECTIONAL RELAY
92 VOLTAGE AND POWER DIRECTIONAL RELAY
93 FIELD-CHANGING CONTACTOR
94 TRIPPING OR TRIP-FREE RELAY

COMMONLY USED SUFFIX LETTER APPLIED TO POWER DEVICE FUNCTION NUMBERS

A ALARM ONLY
B BUS PROTECTION
G GROUND FAULT PROTECTION
(RELAY CT IN A SYSTEM NEUTRAL CIRCUIT OR GENERATOR PROTECTION)
GS GROUND FAULT PROTECTION
(RELAY CT IN TOROIDAL OR GROUND SENSOR TYPE)
L LINE PROTECTION
M MOTOR PROTECTION
N GROUND FAULT PROTECTION
(RELAY COIL CONNECTED IN RESIDUAL CT CIRCUIT)
T TRANSFORMER PROTECTION
V VOLTAGE
P PHASE PROTECTION

ABBREVIATIONS

AFD ARC FLASH DETECTOR
CLK CLOCK OR RIMING SOURCE
DDR DYNAMIC DISTURBANCE RECORDER
DFR DIGITAL FAULT RECORDER
ENV ENVIRONMENTAL DATA
HIZ HIGH IMPEDANCE FAULT DETECTOR
HMI HUMAN MACHINE INTERFACE
HST HISTORIAN
LGC SCHEME LOGIC
MET SUBSTATION METERING
PDC PHASOR DATA CONCENTRATOR
PMU PHASOR MEASUREMENT UNIT
PQM POWER QUALITY MONITOR
RIO REMOTE I/O DEVICE
RTU REMOTE TELEMETRY UNIT/REMOTE TERMINAL UNIT
SER SEQUENCE OF EVENTS RECORDER
TCM TRIP CIRCUIT MONITOR

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

ABBREVIATIONS

VERIFY SCALES
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JOB NO. 203356
DRAWING NO. 00GE02
SHEET NO. 77 OF 162

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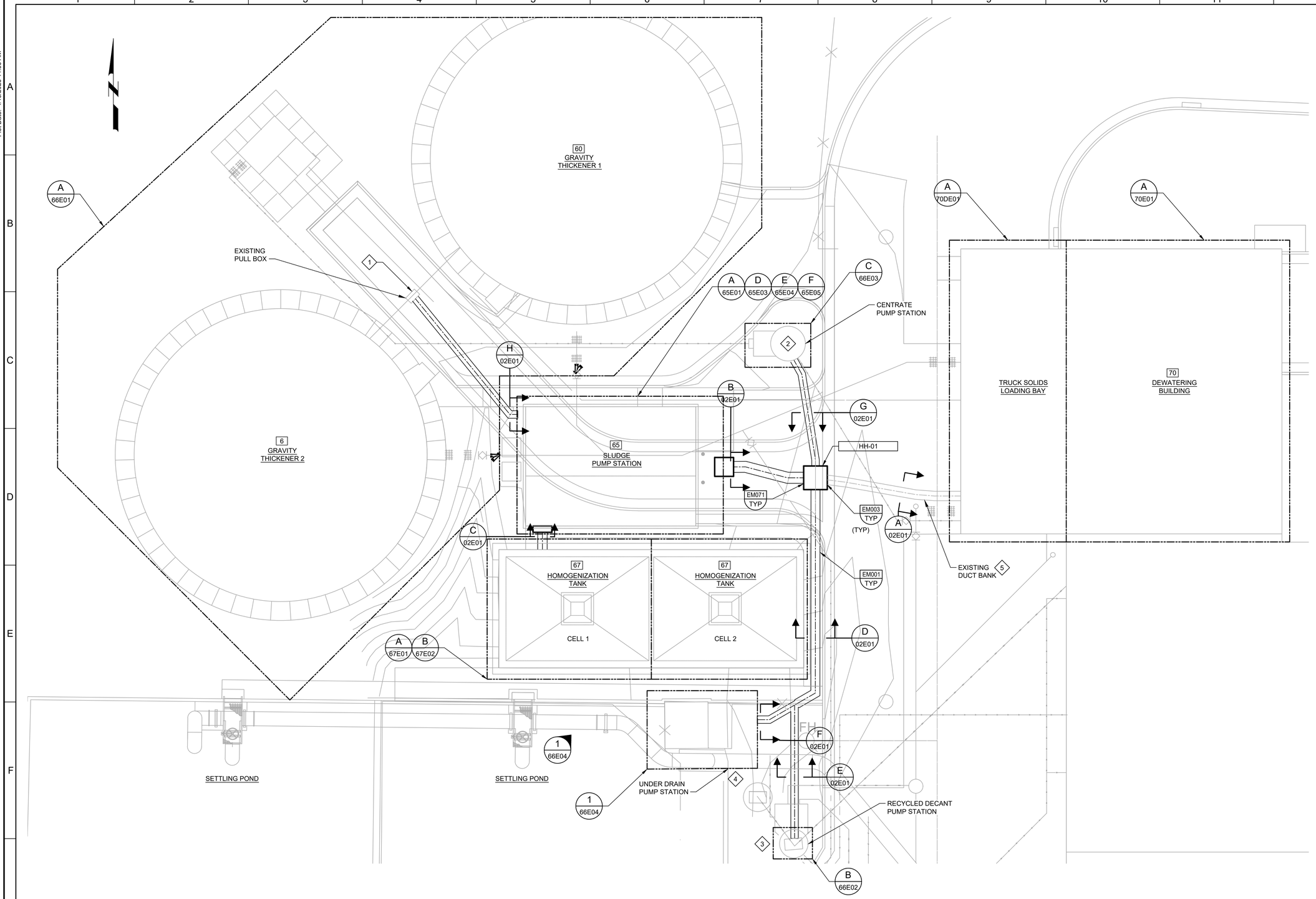
PROJECT NO. 203356-100000 FILE NAME: 203356_00GE02.dwg



GENERAL NOTES:

1. REFER TO DRAWING 02C01 FOR YARD PIPING DETAILS.
2. CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO GRAVITY THICKENERS 1&2, CENTRATE PUMP STATION, UNDER DRAIN PUMP STATION AND RECYCLED DECANT PUMP STATION DURING THE REMOVAL OF EXISTING DUCTBANK, INSTALLATION OF NEW DUCTBANK, PULLING OF NEW CONDUCTORS AND REWIRING. REFER TO SPECIFICATIONS 01_14_00 - WORK RESTRICTIONS AND 01_50_00- TEMPORARY FACILITIES AND CONTROLS FOR DETAILS.

KEY NOTES:

1. TIE INTO EXISTING PULLBOX. UTILIZE EXISTING CONDUITS FROM PULLBOX TO GRAVITY THICKENERS. REFER TO DRAWING 66E01 FOR MORE DETAILS.
2. TIE INTO EXISTING VCP-971. UTILIZE EXISTING CONDUITS FROM VCP-971 TO CENTRATE PUMPS AND INSTRUMENTS. REFER TO DRAWING 66E03 FOR MORE DETAILS.
3. TIE INTO EXISTING PULLBOX. UTILIZE EXISTING CONDUITS FROM PULLBOX TO DECANT PUMPS AND INSTRUMENTS. REFER TO DRAWING 66E02 FOR MORE DETAILS.
4. TIE INTO EXISTING PULLBOX. UTILIZE EXISTING CONDUITS FROM PULLBOX TO DRAIN PUMPS AND INSTRUMENTS. REFER TO DRAWING 66E04 FOR MORE DETAILS.
5. INTERCEPT EXISTING CONDUITS AT THE HANDHOLE HH-01 LOCATION AND REUSE EXISTING CONDUITS BETWEEN HH-01 AND DEWATERING BUILDING MCC-22 AND VCP-900. REFER TO CONDUIT SCHEDULE FOR DETAILS.

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KEY MAP

KEY MAP
NORTH

SCALE

0 5' 10' 20'
SCALE: 1" = 10'

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OVERALL SITE PLAN

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JOB NO. 203356
DRAWING NO. 01E01
SHEET NO. 78 OF 162

Plot Date: 4/15/2025 11:55 AM
LAST SAVED BY: dmacari

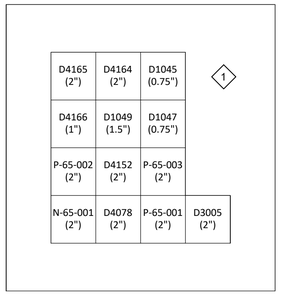
PROJECT NO. 203356 FILE NAME: 203356_01E01.DWG

GENERAL NOTES:

1. CONSTRUCT DUCT BANK PER DETAIL EM001/TYP UNLESS OTHERWISE INDICATED.

KEY NOTES:

1. ALL CONDUITS ARE EXISTING. REUSE SOME OF THE EXISTING "DXXXX" CONDUITS FOR MCC-65 POWER AND PCM-910 NETWORK CONDUCTORS. REFER TO CONDUIT SCHEDULE FOR DETAILS.



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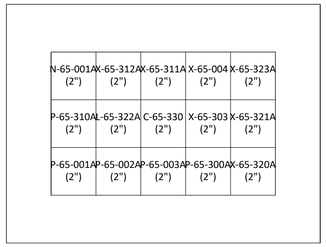
Height: 3'-2"

A DUCT BANK SECTION

01E01



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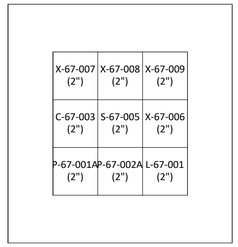
B DUCT BANK SECTION

01E01, 65E03, 65E05



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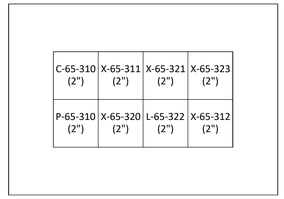
C DUCT BANK SECTION

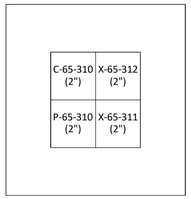
01E01, 65E03, 65E05, 67E01



Width: 2'-4"
Height: 1'-9"

D DUCT BANK SECTION

01E01



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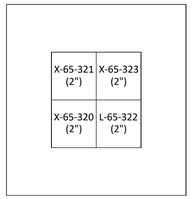
Height: 1'-9"

E DUCT BANK SECTION

01E01,66E02



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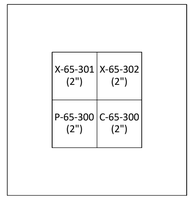
F DUCT BANK SECTION

01E01, 66E04



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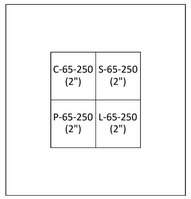
G DUCT BANK SECTION

01E01, 66E03



Width: 1'-7"
Height: 1'-9"

H DUCT BANK SECTION

01E01, 65E03, 65E05, 66E01

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DRAWING NO. 02E01
SHEET NO. 79 OF 162

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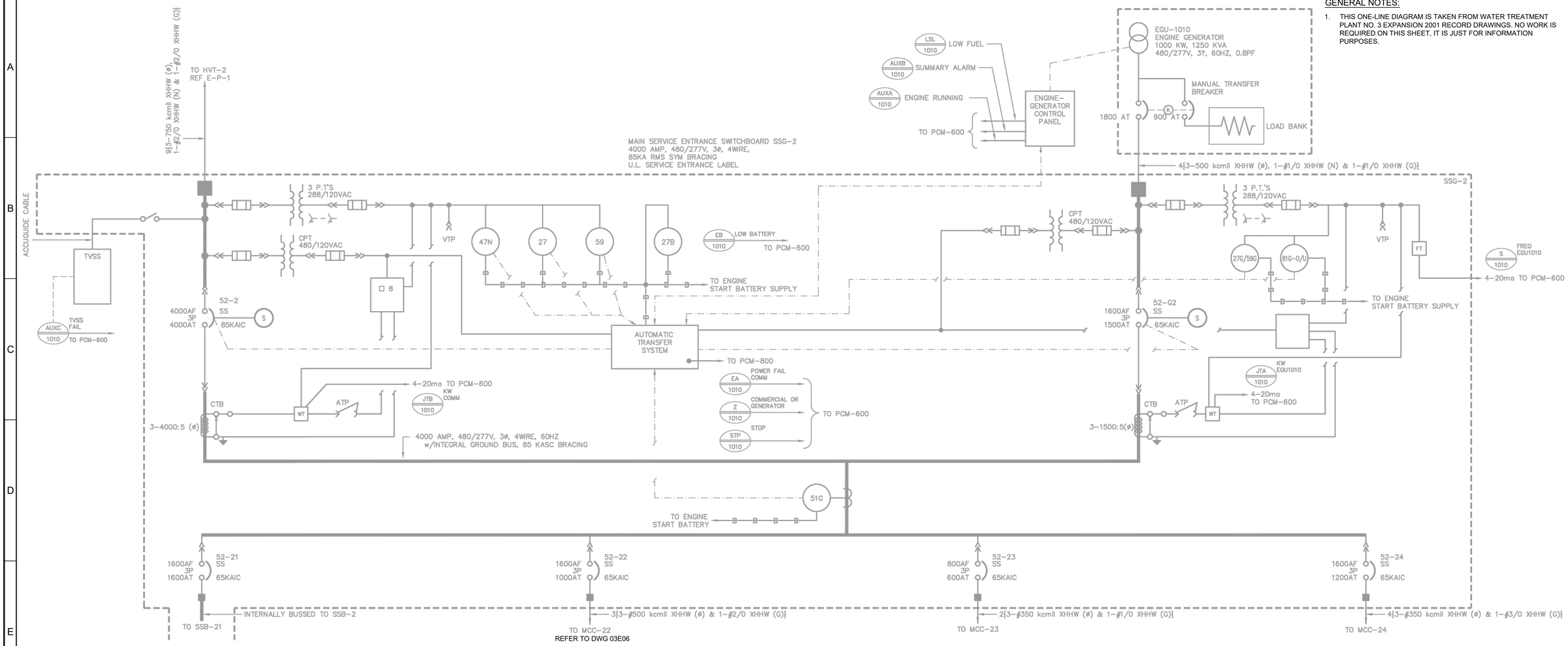
PROJECT NO. 203356-100000 FILE NAME: 203356_02E01.dwg

GENERAL NOTES:

1. THIS ONE-LINE DIAGRAM IS TAKEN FROM WATER TREATMENT PLANT NO. 3 EXPANSION 2001 RECORD DRAWINGS. NO WORK IS REQUIRED ON THIS SHEET, IT IS JUST FOR INFORMATION PURPOSES.



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SSG-2 OVERALL ONE-LINE DIAGRAM

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DRAWING NO. 03E01
SHEET NO. 80 OF 162

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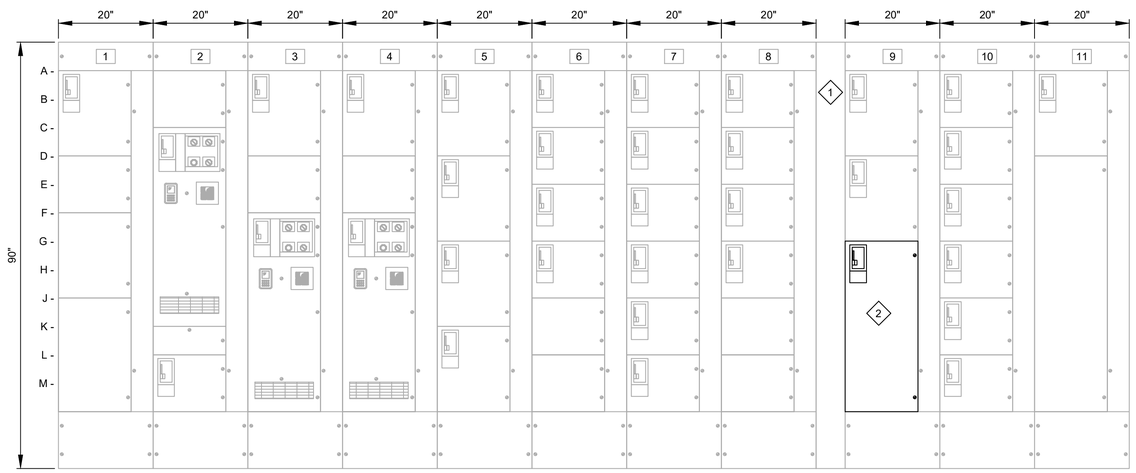
GENERAL NOTES:

1. EXISTING IS GE 8000 LINE MOTOR CONTROL CENTER.

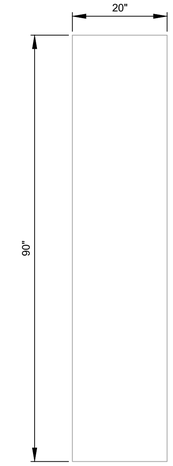
KEY NOTES:

1. CORNER SECTION.
2. PROVIDE A 600AF, 480V, 3 POLE, 3-PHASE FEEDER BREAKER FOR MCC-65.



FRONT VIEW

SCALE: 3/4" = 1'-0"



SIDE VIEW

SCALE: 3/4" = 1'-0"

1A- VCP-932 CENTRIFUGE NO.1 CONTROL PANEL	2A- SPACE	3A- VCP-942 CENTRIFUGE NO.2 CONTROL PANEL	4A- VCP-952 CENTRIFUGE NO.3 CONTROL PANEL	5A- CVU-961 COLLECTOR CONVEYOR	6A- EF-14 EXHAUST FAN NO.2	7A- CVUA-967 DISCHARGE CONVEYOR NO.1	8A- CVUG-967 DISCHARGE CONVEYOR NO.7	9A- TR-LP-221 LP-221 LIGHTING PANEL	10A- SPARE STARTER	11A- PP-221 BREAKER
1D- SPACE	2C- SPARE VFD	3D- SPACE	4D- SPACE	5D- CVU-962 INCLINED CONVEYOR	6C- EF-13 EXHAUST FAN NO.1	7C- CVUB-967 DISCHARGE CONVEYOR NO.2	8C- CVUH-967 DISCHARGE CONVEYOR NO.8	9D- CVU-966 LEVELING CONVEYOR	10C- SPARE STARTER	11D- PP-221 DISTRIBUTION PANELBOARD
1F- SPACE	2K- SPACE	3F- SPARE VFD	4F- SPARE VFD	5G- SPARE STARTER	6E- EF-15 EXHAUST FAN NO.3	7E- CVUC-967 DISCHARGE CONVEYOR NO.3	8E- CVUA-966 LEVELING CONVEYOR	9G- MCC-65	10E- SPARE	
1J- MAIN LUGS ONLY	2L- TVSS			5K- SPARE STARTER	6G- EF-16 EXHAUST FAN NO.4	7G- CVUD-967 DISCHARGE CONVEYOR NO.4	8G- CVUB-966 LEVELING CONVEYOR		10G- SPARE	
					6J- SPACE	7J- CVUE-967 DISCHARGE CONVEYOR NO.5	8J- SPACE		10J- TR-LP-222 LP-222 LIGHTING PANEL	
					6L- SPACE	7L- CVUF-967 DISCHARGE CONVEYOR NO.6	8L- SPACE		10L- SPACE	

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

MCC-22 ELEVATION - MODIFICATIONS

VERIFY SCALES
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JOB NO. 203356
DRAWING NO. 03E02
SHEET NO. 81 OF 162

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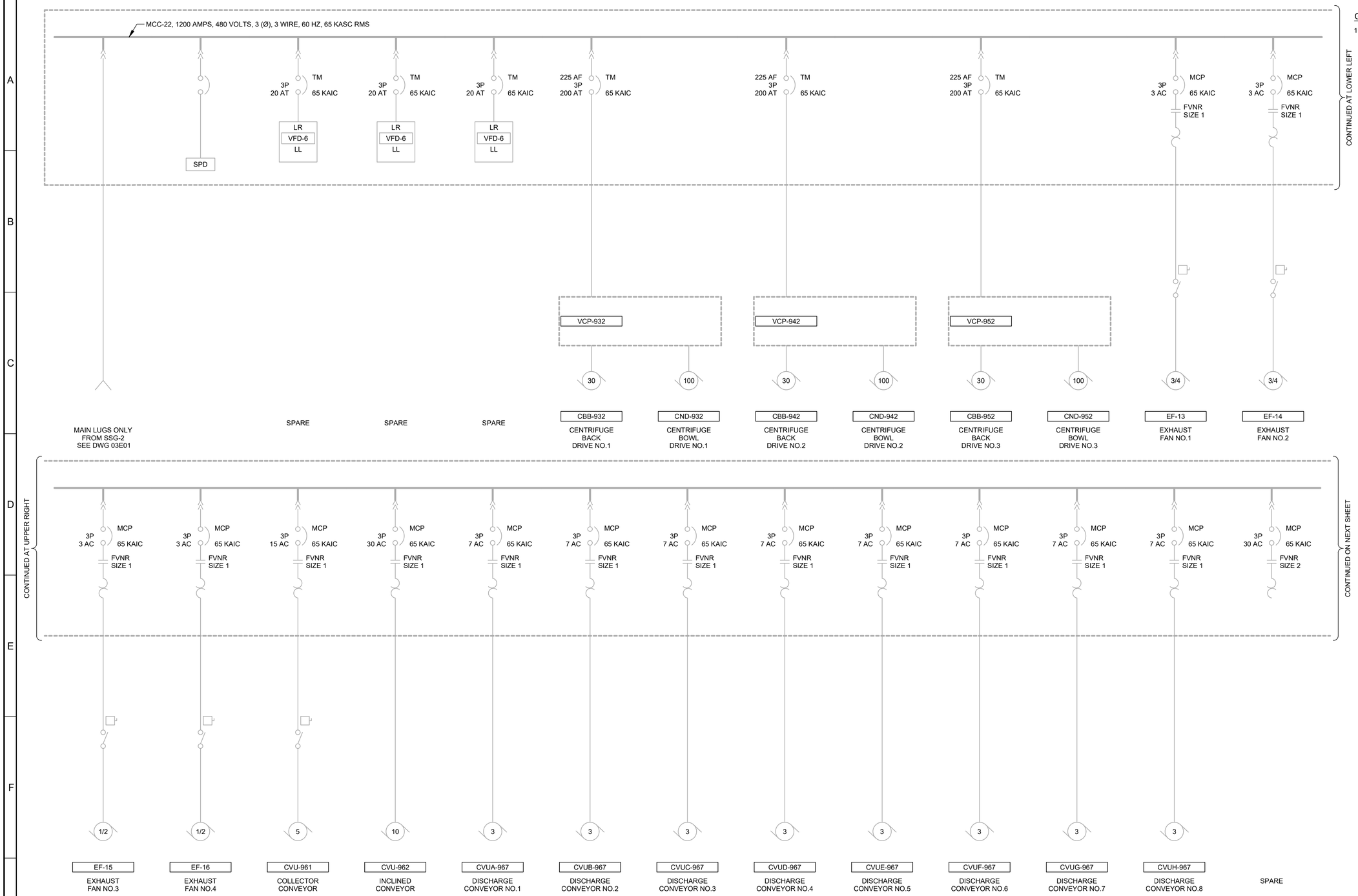
PROJECT NO. 203356-100000 FILE NAME: 203356_03E02.dwg



GENERAL NOTES:

1. DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED ON THIS SHEET.

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DATE JUNE 2025

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

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SHEET NO. 82 OF 162

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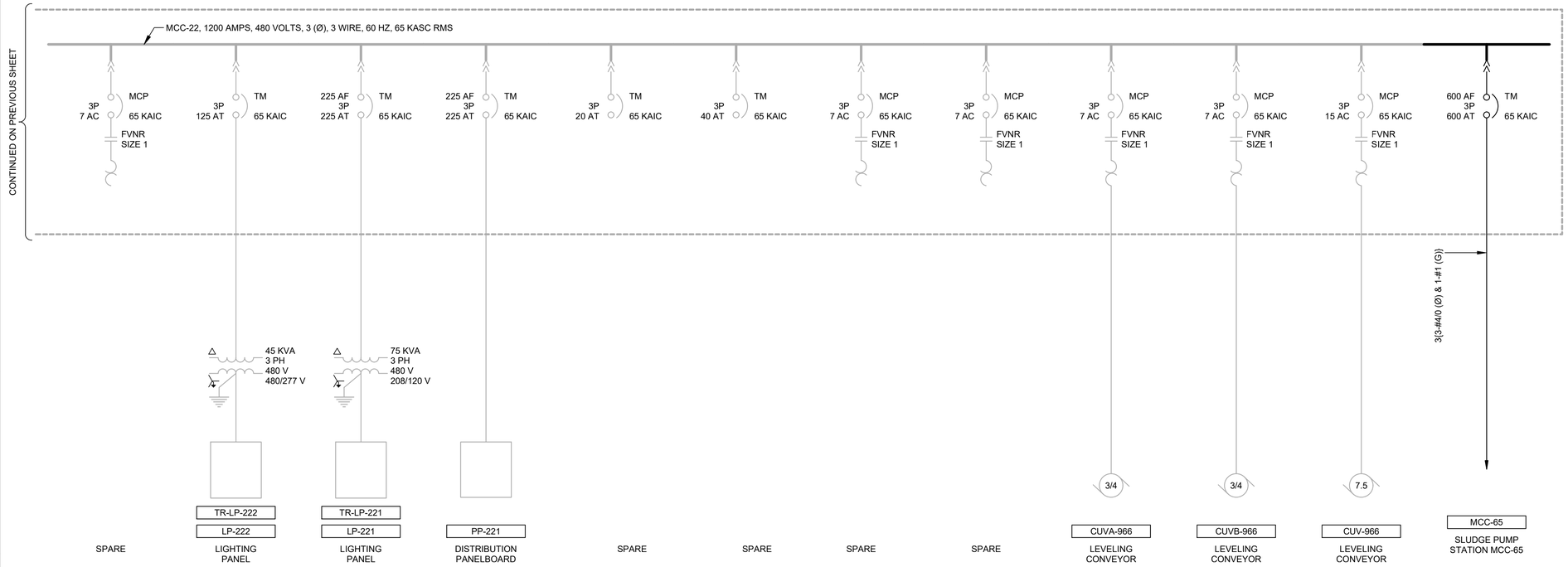

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DRAWING NO. 03E04
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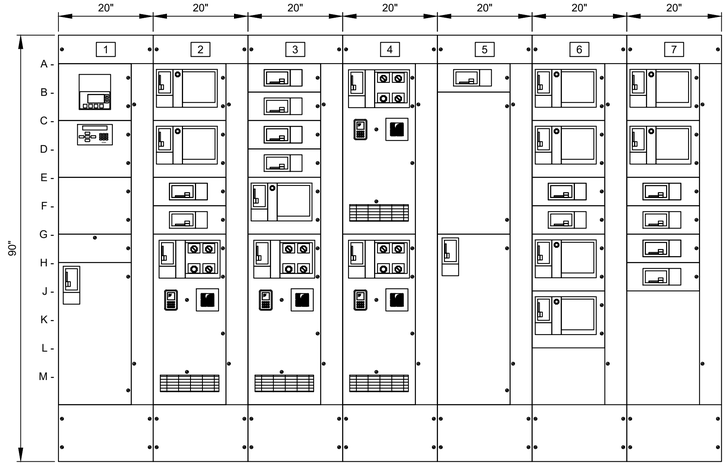
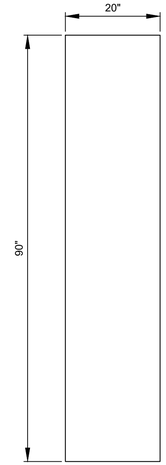


FRONT VIEW

SCALE: 3/4" = 1'-0"



SIDE VIEW

SCALE: 3/4" = 1'-0"

1A- SPD	2A- 67-MIX-981 SLUDGE DAY TANK MIXER NO.1	3A- 65-FV-930A GRAVITY THICKENER VALVE NO.1	4A- 65-PMP-941 THICKENED SLUDGE FEED PUMP NO.1	5A- SPARE	6A- SPARE STARTER	7A- THU-921 THICKENER NO.1
1C- POWER MONITOR	2C- 67-MIX-982 SLUDGE DAY TANK MIXER NO.2	3B- 65-FV-930B GRAVITY THICKENER VALVE NO.2	4G- 65-PMP-942 THICKENED SLUDGE FEED PUMP NO.2	5B- 65-PNL-01 LIGHTING PANELBOARD	6C- RDP-992 PLANT DRAIN PUMP NO.2	7C- THU-922 THICKENER NO.2
1E- SPACE	2E- 65-VCP-930 GRINDER CONTROL PANEL	3C- 67-FV-940A SLUDGE DAY TANK VALVE NO.1		5G- 65-XFMR-01 65-PNL-01 LIGHTING PANELBOARD	6E- SPARE	7E- SPARE
1G- SPACE	2F- 65-VCP-980 SUMP PUMP CONTROL PANEL	3D- 67-FV-940B SLUDGE DAY TANK VALVE NO.1			6F- VCP-971 CENTRATE PUMP VCP	7F- SPARE
1H- MAIN BREAKER	2G- 65-PMP-931 THICKENED SLUDGE TRANSFER PUMP NO.1	3E- 65-SF-997 SUPPLY FAN NO.1			6G- SPARE STARTER	7G- SPARE
		3G- 65-PMP-932 THICKENED SLUDGE TRANSFER PUMP NO.2			6J- SPARE STARTER	7H- SPARE
						7J- SPACE

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

MCC-65 ELEVATION

VERIFY SCALES
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SHEET NO. 84 OF 162

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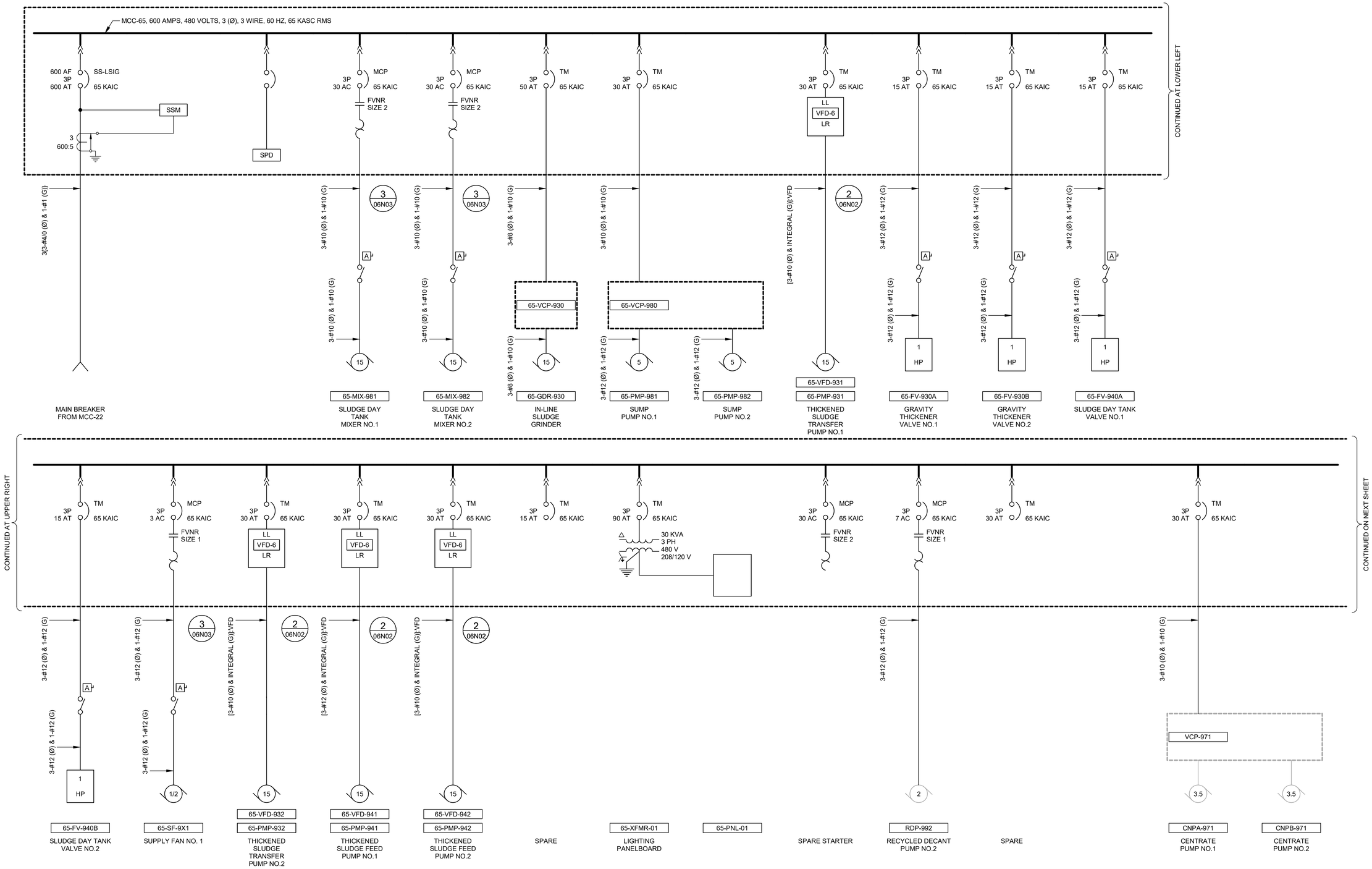

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ELECTRICAL

MCC-65 ONE-LINE DIAGRAM 1

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DRAWING NO. 03E06
SHEET NO. 85 OF 162

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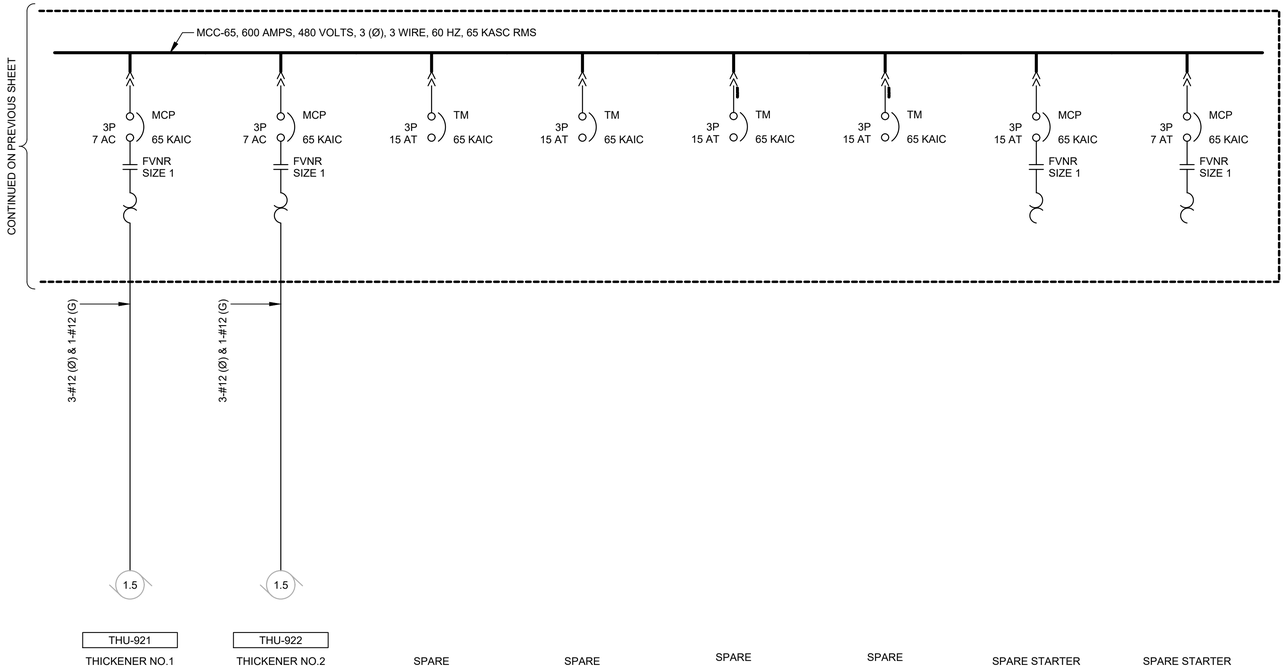

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MCC-65 ONE-LINE DIAGRAM 2

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JOB NO. 203356
DRAWING NO. 03E07
SHEET NO. 86 OF 162

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PANEL LP-221 (2)

PANEL INFORMATION

LOCATION	MCC-22	NEMA RATING	1	35286.0	TOTAL CONNECTED VA
VOLTAGE	208 /120V	WIRE	4	32396.3	TOTAL CONTINUOUS VA
PHASE	3	PANEL AMP RATING		8370.0	TOTAL INTERMITTENT VA
MAIN	LUG	FEED	BUS	40766.3	TOTAL PANEL VA
INTERRUPT	65 KAIC	MTG.	MCC	113.2	TOTAL PANEL AMPS
GENERAL ELECTRIC					

PANEL CALCULATIONS

A PHASE	13034
B PHASE	13243
C PHASE	9009

I/C	L	R	DESCRIPTION	LOAD (VA)	BKR	CIR	ø	CIR	BKR	LOAD (VA)	DESCRIPTION	R	L	I/C
C		1	CMX-841 – PE3 MIX TANK NO.1	720	1P-20A	1	A	2	1P-20A	1350	SAMPLE STATION WATER HEATER	1		C
C		1	CMX-482 – PE3 MIX TANK NO.2	720	1P-20A	3	B	4	1P-20A	1220	REST ROOM LIGHTS/EXHAUST FAN		1	C
I		4	NORTH AND SOUTH OFFICES RECEPTACLES	720	1P-20A	5	C	6	1P-20A	1350	REST ROOM WATER HEATER	1		I
I		4	NORTH AND SOUTH OFFICES RECEPTACLES	720	1P-20A	7	A	8	1P-20A	1440	SPARE			C
I		4	TRUCK BAY & POLYMER RECEPTACLES	720	1P-20A	9	B	10	1P-20A	180	RESTROOM RECEPTACLES	1		I
I		3	TRUCK BAY, SINK, & LOWER LEVEL RECEPTACLES	540	1P-20A	11	C	12	1P-20A	720	ELEC ROOM RECEPTACLES	4		I
I		5	SPARE	900	1P-15A	13	A	14	1P-20A	900	MEZZANINE RECEPTACLES	5		I
I		3	(1) THICKENER RECEPTACLES & RH-3	540	1P-20A	15	B	16	1P-20A	1920	DRINKING FOUNTAIN RECEPTACLE	1		C
C			CEILING FAN	1920	1P-20A	17	C	18	1P-20A	360	SPARE			C
C			POLYMER, VCP-800	1920	1P-20A	19	A	20	2P-20A	1664	EXTERNAL HEAT PUMP			C
C			HEAT TRACE NORTH	1920	1P-20A	21	B	22		1664	EXTERNAL HEAT PUMP			C
C			UH-5, UH-6, LOWER LEVEL L-1	900	1P-20A	23	C	24	1P-20A		SPARE			
			UH-7		1P-20A	25	A	26	1P-20A	1200	UH-3, UH-4			C
C			OFFICE HEATER	1500	2P-20A	27	B	28	2P-20A	999	RESTROOM ELECTRIC WALL HEATER			C
C				1500		29	C	30		999	SPARE			
C			SPARE	1500	2P-20A	31	A	32	1P-20A	720	NORTH RECEPTACLES	4		I
C				1500		33	B	34	1P-20A	360	MEZZANINE	2		I
			SPARE		1P-20A	35	C	36	1P-20A ☐ 1	1500	AIR DRYER COMPRESSOR	1		C
			SPARE		1P-20A	37	A	38	1P-20A ☐ 1	1500	HEAT TRACE WEST	1		C
			SPARE		1P-20A	39	B	40	1P-20A ☐ 1	1500	SAMPLE PLUG MOLD	1		C
			SPARE		1P-20A	41	C	42	1P-20A ☐ 1	1500	HEAT TRACE EAST	1		C

LP-222 (2)

PANEL INFORMATION

LOCATION	MCC-22	NEMA RATING	1	12768	TOTAL CONNECTED VA
VOLTAGE	480 /277	WIRE	3	15960	TOTAL CONTINUOUS VA
PHASE	3	PANEL AMP RATING	125A	0	TOTAL INTERMITTENT VA
MAIN	CB	FEED	BOTTOM	15960	TOTAL PANEL VA
INTERRUPT	65 KAIC	MTG.	SURFACE	19.2	TOTAL PANEL AMPS
MANUFACTURER					

PANEL CALCULATIONS

A PHASE	4321
B PHASE	5119
C PHASE	3328

I/C	L	R	SW	DESCRIPTION	LOAD (VA)	BKR	CIR	ø	CIR	BKR	LOAD (VA)	DESCRIPTION	SW	R	L	I/C
C	4		a	(1) THICKENER LIGHTS	444	1P-20A	1	A	2	1P-20A	212	LIGHTS – STORAGE ROOM	b		4	C
C	5		e	EXTERIOR LIGHTS – DEWATERING BLDG	1110	1P-20A	3	B	4	1P-20A	330	LIGHTS – OFFICE	c		4	C
C	R		l	MEZZANINE	388	1P-20A	5	C	6	1P-20A	582	LIGHTS – CENTRIFUGE (LOWER)	d		6	C
C	6		h	LIGHTS – HOPPER ROOM	1220	1P-20A	7	A	8	1P-20A	2445	LIGHTS – TRUCK BAY	f		9	C
C	5		m	LIGHTS – POLYMER	2355	1P-20A	9	B	10	1P-20A	582	LIGHTS – ELECTRICAL ROOM	g		5	C
C	2		NL	NIGHT LIGHTS – THICKENER PUMPS	194	1P-20A	11	C	12	1P-20A	2164	LIGHTS – CENTRIFUGE (UPPER)	k		8	C
				SPARE		1P-20A	13	A	14	1P-20A		SPARE				C
C	2		NL	NIGHT LIGHTS – CENTRIFUGE	354	1P-20A	15	B	16	1P-20A	388	LIGHTS – THICKENER PUMPS	o		4	C
				SPARE		1P-20A	17	C	18	1P-20A		SPARE				
				SPARE		1P-20A	19	A	20	1P-20A		SPARE				
				SPARE		1P-20A	21	B	22	1P-20A		SPARE				
				SPARE		1P-20A	23	C	24	1P-20A		SPARE				
				SPARE		1P-20A	25	A	26	1P-20A		SPARE				
				SPARE		1P-20A	27	B	28	1P-20A		SPARE				
				SPARE		1P-20A	29	C	30	1P-20A		SPARE				
				SPARE		1P-20A	31	A	32	1P-20A		SPARE				
				SPARE		1P-20A	33	B	34	1P-20A		SPARE				
				SPARE		1P-20A	35	C	36	1P-20A		SPARE				
				SPARE		1P-20A	37	A	38	1P-20A		SPARE				
				SPARE		1P-20A	39	B	40	1P-20A		SPARE				
				SPARE		1P-20A	41	C	42	1P-20A		SPARE				

PANEL 65-PNL-01

4/18/2025

LOCATION:	INSIDE MCC-65	NEMA:	1	PH A WEIGHTED VA	7426
VOLTS:	208/120	FEED:	BOTTOM	PH B WEIGHTED VA	7355
PHASE & WIRE:	3 PH 4W	MTG.	MCC	PH C WEIGHTED VA	6180
INTERRUPT:	18 KAIC	BUS RATING:	100		
OPTIONS:	SPD	MAIN:	CB	EQUIP SIZING VA	22278
		MAIN RATING:	100 AF 80 AT	PANEL AMPS	61.8

I/C/S	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/S
C	PUMP STATION - PUMP AREA LIGHTS	360	20A-1P	1	A	2	20A-1P	500	65-ACP-910 - ACCESS CONTROL PANEL	C
C	PUMP STATION - ELECTRICAL ROOM LIGHTS	258	20A-1P	3	B	4	20A-1P	1260	PUMP STATION - ELECTRICAL ROOM RECEPTACLES	I
C	PCM-910 CKT 1	1000	20A-1P	5	C	6	20A-1P	500	PCM-920 CKT 2	C
I	HOMOGENIZATION TANK RECEPTACLES	36	20A-1P	7	A	8	15A-1P	20	EXIT SIGNS	C
C	HOMOGENIZATION TANK LIGHTS	74	20A-1P	9	B	10	20A-1P	52	PUMP STATION - UPPER LEVEL OUTDOOR LIGHTS	C
	SPARE		20A-1P	11	C	12	20A-1P	1200	PUMP STATION - PUMP AREA RECEPTACLES	I
C	65-HP-993 - HEAT PUMP NO.1	1976	25A-2P	13	A	14	20A-1P	540	THICKENER RECEPTACLES AND RH-3	C
C		1976		15	B	16	20A-1P GFCI	540	HEAT TRACE EAST	C
C	THICKENER LIGHTS	444	20A-1P	17	C	18	20A-1P GFCI	540	HEAT TRACE NORTH	C
C	65-HP-994 - HEAT PUMP NO.2	1976	25A-2P	19	A	20	20A-1P GFCI	540	HEAT TRACE SOUTH	C
C		1976		21	B	22	20A-1P		SPARE	
C	HEAT TRACE WEST	540	20A-1P GFCI	23	C	24	15A-1P	600	65-LVR-997 - MOTORIZED LOUVER 1	C
	SPARE		20A-1P	25	A	26	20A-1P		SPARE	
	SPARE		20A-1P	27	B	28	20A-1P		SPARE	
	SPARE		20A-1P	29	C	30	20A-1P	360	UNDER DRAIN PS LIGHT & TRASH PUMPS	C

(#) KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM PANELBOARD LP-221, CIRCUIT 15, AND PANELBOARD LP-222, CIRCUIT 1, AND LABEL THESE CIRCUITS AS SPARE. THE THICKENER LIGHTS AND RECEPTACLES WILL NOW BE SUPPLIED BY THE NEW PANELBOARD 65-PNL-01 LOCATED INSIDE MCC-65 AT THE SLUDGE PUMP STATION. REFER TO PANEL 65-PNL-01 FOR DETAILS.
2. EXISTING PANELBOARD SCHEDULE. FOR REFERENCE ONLY.

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

PANELBOARD SCHEDULES

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JOB NO. 203356
DRAWING NO. 04E01
SHEET NO. 87 OF 162

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LUMINAIRE SCHEDULE

4/15/2025

ITEM	DESCRIPTION	MOUNTING METHOD	LED LUMENS	LED COLOR TEMPERATURE	LED CRI	LUMINAIRE SPECIFICATIONS MANUFACTURER	CATALOG	VOLTS	VA
A	FEM LED ENCLOSED AND GASKETED INDUSTRIAL LINEAR FIXTURE, SUITABLE FOR WET LOCATIONS, VAPOR-TIGHT, ACRYLIC CLEAR DEEP LENS, MEDIUM DISTRIBUTION, RATED FOR AMBIENT TEMPERATURES 5°C TO 35°C	SUSPENDED	6687	4000K	80	LITHONIA LIGHTING	FEM L48 6000LM IMACD MD MVOLT GZ10 40K 80CRI	120	43
A1	FEM LED ENCLOSED AND GASKETED INDUSTRIAL LINEAR FIXTURE, SUITABLE FOR WET LOCATIONS, VAPOR-TIGHT, ACRYLIC CLEAR DEEP LENS, MEDIUM DISTRIBUTION, RATED FOR AMBIENT TEMPERATURES 5°C TO 35°C, 10W CONSTANT POWER BATTERY PACK	SUSPENDED	6687	4000K	80	LITHONIA LIGHTING	FEM L48 6000LM IMACD MD MVOLT GZ10 40K 80CRI BE6WCP	120	43
B	D-SERIES SIZE 1 LED WALL LUMINAIRE, IP65 RATED, CORROSION RESISTANT, TYPE II MEDIUM DISTRIBUTION, RATED FOR AMBIENT TEMPERATURE -40°C MINIMUM, PHOTOELECTRIC CELL BUTTON TYPE, EMERGENCY BATTERY BACKUP, BLACK	WALL	1840	3000K	80	LITHONIA LIGHTING	DSXW1 LED P1 30K 80CRI T2M 120 SRM PE E10WH DBLXD	120	13
C	DELEON DLTL WET LOCATION EXIT SIGN, WHITE COMPACT WITH GREEN LETTERS, RATED FOR AMBIENT TEMPERATURES -20°C TO 50°C, MAINTENANCE FREE NICKEL-CADMIUM BATTERY DELIVERS 90 MINUTES RATED CAPACITY	WALL				HOLOPHANE	DLTL W 1 G EL	120	4
D	WALLCONNECT LED, FULLY GASKETED, SUITABLE FOR WET LOCATIONS, POLYCARBONATE LENS, TYPE 3 MEDIUM DISTRIBUTION, RATED FOR AMBIENT TEMPERATURES -40°C TO 50°C, 10KV SURGE PROTECTOR, SCREW CLOSURE, EMERGENCY BATTERY BACKUP	WALL	2024	4000K	70	HOLOPHANE	WCNP P1 40 K T3M 120 10KV BKSDP SCRW NTR ELSW	120	18
E	D-SERIES SIZE 0 LED AREA LUMINAIRE, UL LISTED FOR WET LOCATIONS, ZERO UPLIGHT, FORWARD THROW MEDIUM DISTRIBUTION, RATED FOR AMBIENT TEMPERATURES -40°C MINIMUM, MAST ARM ADAPTER, NATURAL ALUMINUM FINISH 8 FOOT SWIVEL POLE	POLE	4698	3000K	70	LITHONIA LIGHTING	DSX0 LED 30K 70CRI TFTM 120 MA DNAXD C1-M1-2400-T-HG-AL	120	37

DISCONNECT SCHEDULE

4/15/2025

TAG	VOLTAGE	POLES	AMPS	NEMA TYPE	TYPE	HORSEPOWER	FUSE SIZE	BREAKER AF/AT	ACCESSORIES
A	600 VAC	3P	30A	4X-SS	NON-FUSED				3

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

ELECTRICAL HANDHOLE AND MANHOLE SCHEDULE

6/9/2025

TAG NO	MINIMUM INTERIOR DIMENSIONS (INCHES) WIDTH	LENGTH	DEPTH	CONSTRUCTION	TYPICAL DETAIL	SURFACE LOADING	COMMENTS
HH-01	60	60	60	PRECAST	EM056	ROADWAY	
65-PB-01	48	48	60	PRECAST	EM056	ROADWAY	
65-PB-02	16	48	60	PRECAST	EM056	ROADWAY	

NOTES:
1. SEE SPECIFICATION 03_48_55 and 03_48_53 FOR PRECAST ELECTRICAL HANDHOLES AND MANHOLES.
2. ALTERNATES: PROVIDE PER TYPICAL DETAIL EM062 IF INDICATED UNDER "COMMENTS".

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
ELECTRICAL
LUMINAIRE, DISCONNECT, AND HANDHOLE SCHEDULES

VERIFY SCALES
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JOB NO. 203356
DRAWING NO. 05E01
SHEET NO. 88 OF 162

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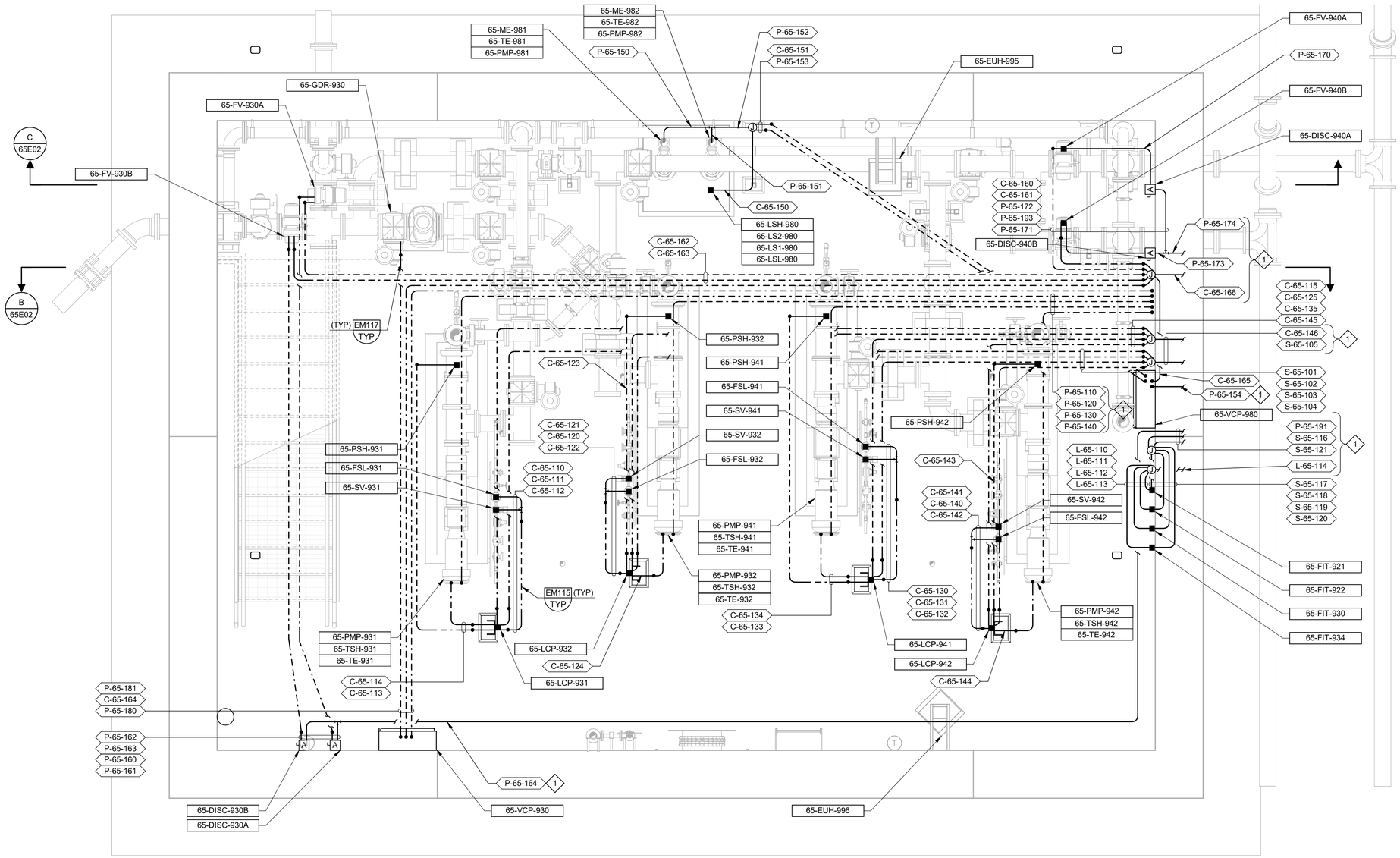
PROJECT NO. 203356-100000 FILE NAME: 203356_05E01.dwg

KEY NOTES:

1. CONDUITS CONTINUE ON DRAWING 65E02.



A PLAN

01E01

SCALE: 1/2" = 1'-0"

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

18 - ELECTRICAL

SLUDGE PUMP STATION LOWER LEVEL POWER AND CONTROL PLAN

VERIFY SCALES
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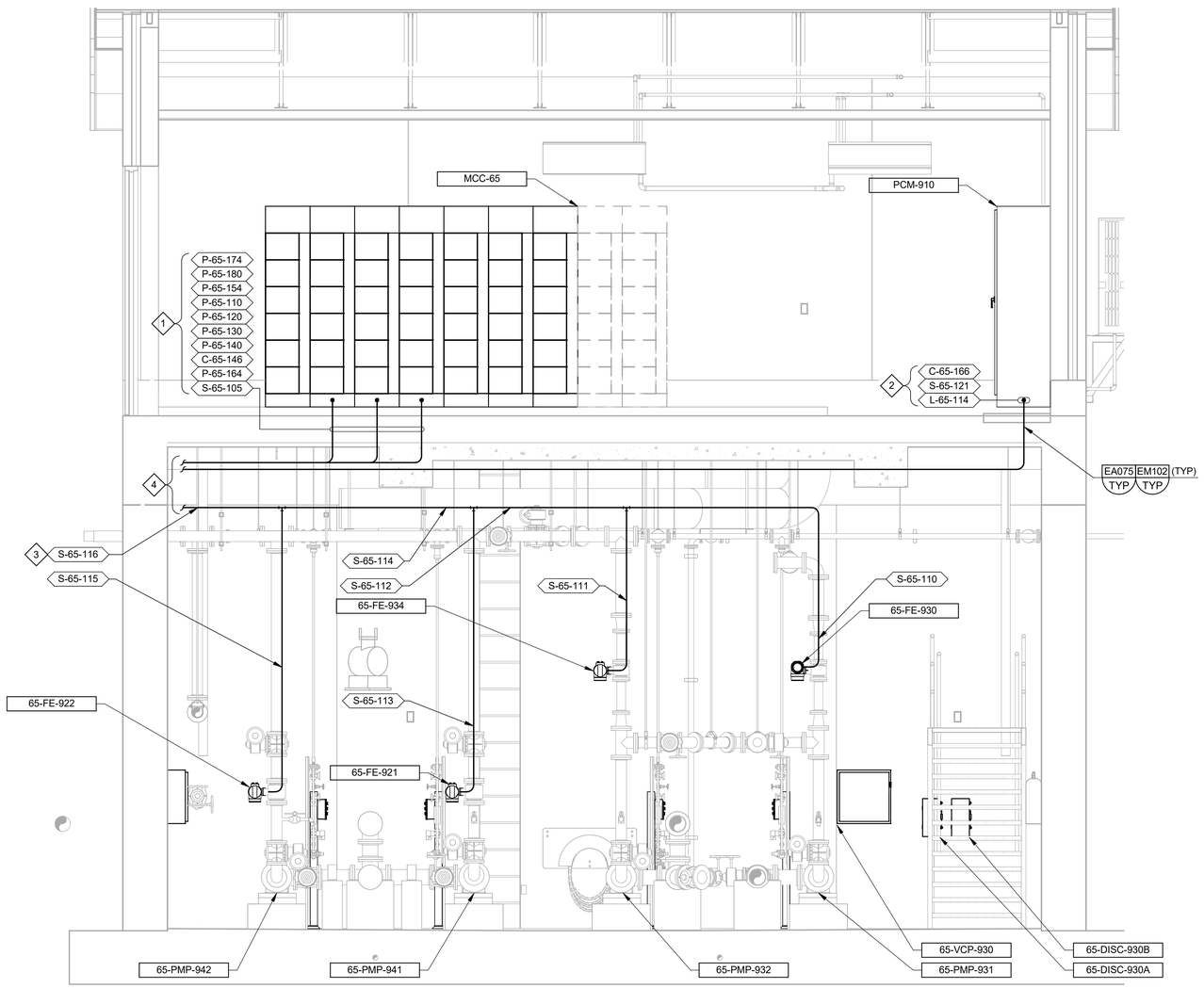
JOB NO. 203356
DRAWING NO. 65E01
SHEET NO. 89 OF 162

PLOT DATE: 6/9/2025 3:39:48 PM

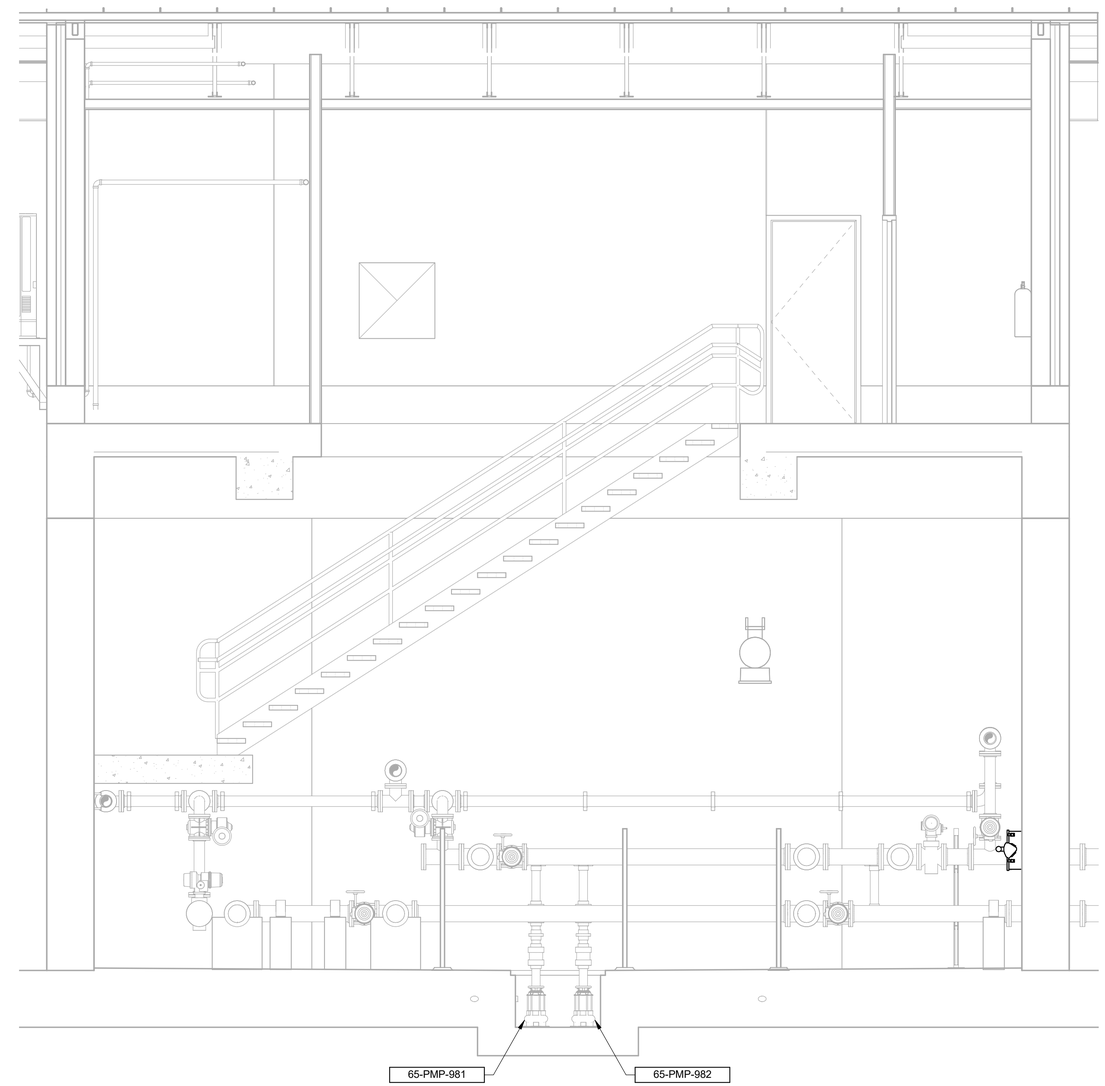
FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_65E0801.rvt

KEY NOTES:

1. ROUTE CONDUITS FROM THE PUMP STATION EXPOSED BENEATH THE CEILING AND EXTEND THEM UPWARD BENEATH THE CORRESPONDING SECTION OF MCC-65. SUPPORT THE CONDUITS FROM THE CEILING PER TYPICAL DETAIL EM102 AND EA075/TYP. REFER TO DRAWING 65E03 FOR CONDUIT TERMINATION.
2. ROUTE CONDUITS FROM THE PUMP STATION EXPOSED BENEATH THE CEILING AND EXTEND THEM UPWARD BENEATH PCM-910. SUPPORT THE CONDUITS FROM THE CEILING PER TYPICAL DETAIL EM102 AND EA075/TYP. REFER TO DRAWING 65E03 FOR CONDUIT TERMINATION.
3. SUPPORT CONDUITS ALONG THE PIPE, TYPICAL.
4. CONDUITS CONTINUED ON DRAWING 65E01.



B 65E01 **SECTION**
SCALE: 3/8" = 1'-0"



C 65E01 **SECTION**
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION

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DATE JUNE 2025

REGISTERED PROFESSIONAL ENGINEER No. 5329023 GUY C. EHLERS STATE OF UTAH

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WEBER BASIN WATER CONSERVANCY DISTRICT

WEBER BASIN WATER CONSERVANCY DISTRICT

DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

18 - ELECTRICAL

SLUDGE PUMP STATION LOWER LEVEL POWER AND CONTROL SECTIONS

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

JOB NO. 203356
DRAWING NO. 65E02
SHEET NO. 90 OF 162

PLOT DATE: 6/9/2025 3:43:47 PM

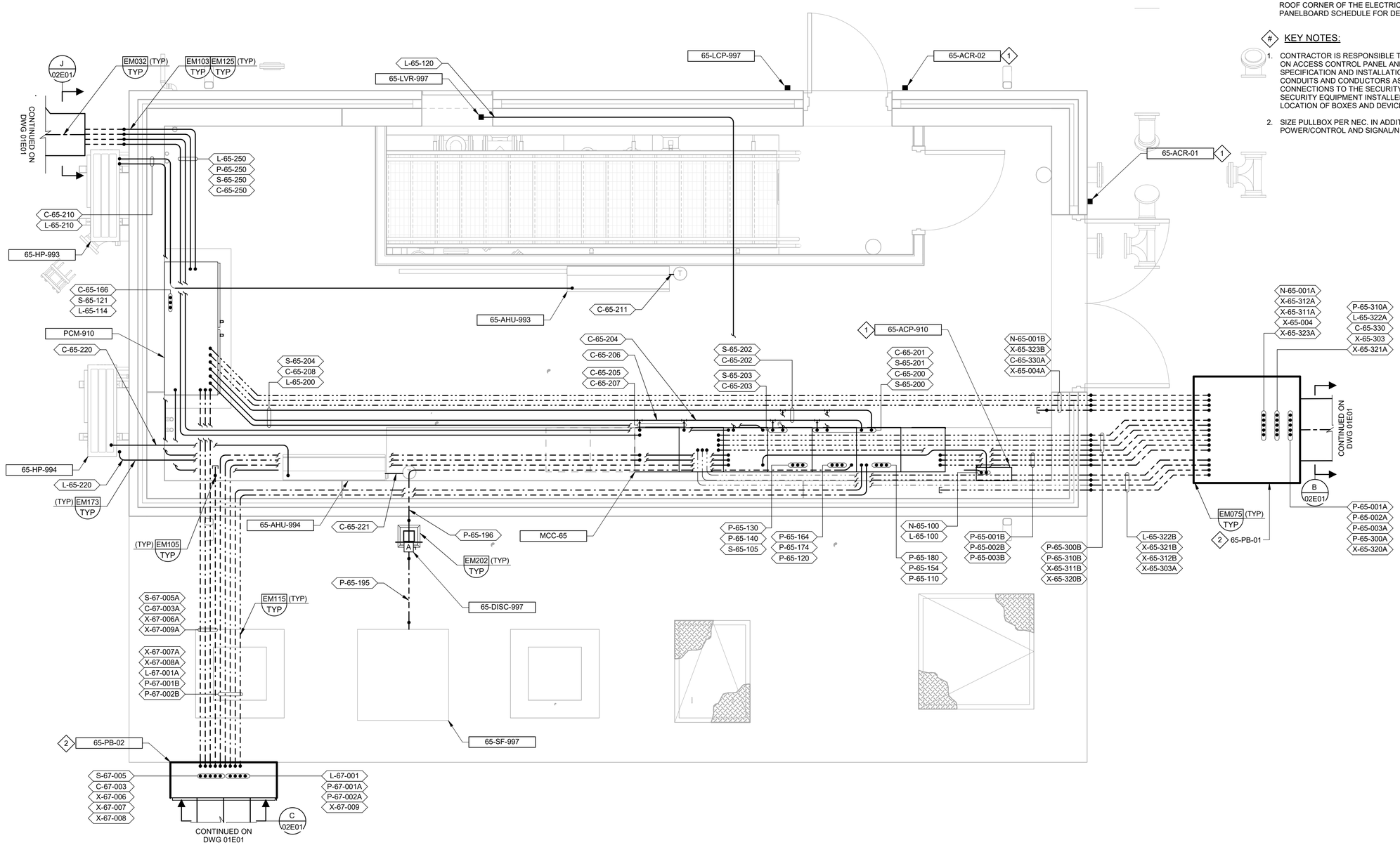
FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_65E0801.rvt

GENERAL NOTES:

1. PROVIDE CONDUITS AND CONDUCTORS FROM PANELBOARD 65-PNL-01 LOCATED INSIDE MCC-65 TO EACH HEAT TRACE AT EVERY ROOF CORNER OF THE ELECTRICAL BUILDING. REFER TO THE PANELBOARD SCHEDULE FOR DETAILS.

KEY NOTES:

1. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER ON ACCESS CONTROL PANEL AND SECURITY CARD READERS SPECIFICATION AND INSTALLATION DETAILS. PROVIDE ADDITIONAL CONDUITS AND CONDUCTORS AS NEEDED TO MAKE THE FINAL CONNECTIONS TO THE SECURITY DEVICES. WORK WITH THE SECURITY EQUIPMENT INSTALLER TO DETERMINE THE EXACT LOCATION OF BOXES AND DEVICES.
2. SIZE PULLBOX PER NEC. IN ADDITION PROVIDE BARRIER BETWEEN POWER/CONTROL AND SIGNAL/NETWORK CONDUCTORS.



D 01E01 PLAN

SCALE: 1/2" = 1'-0"

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ELECTRICAL

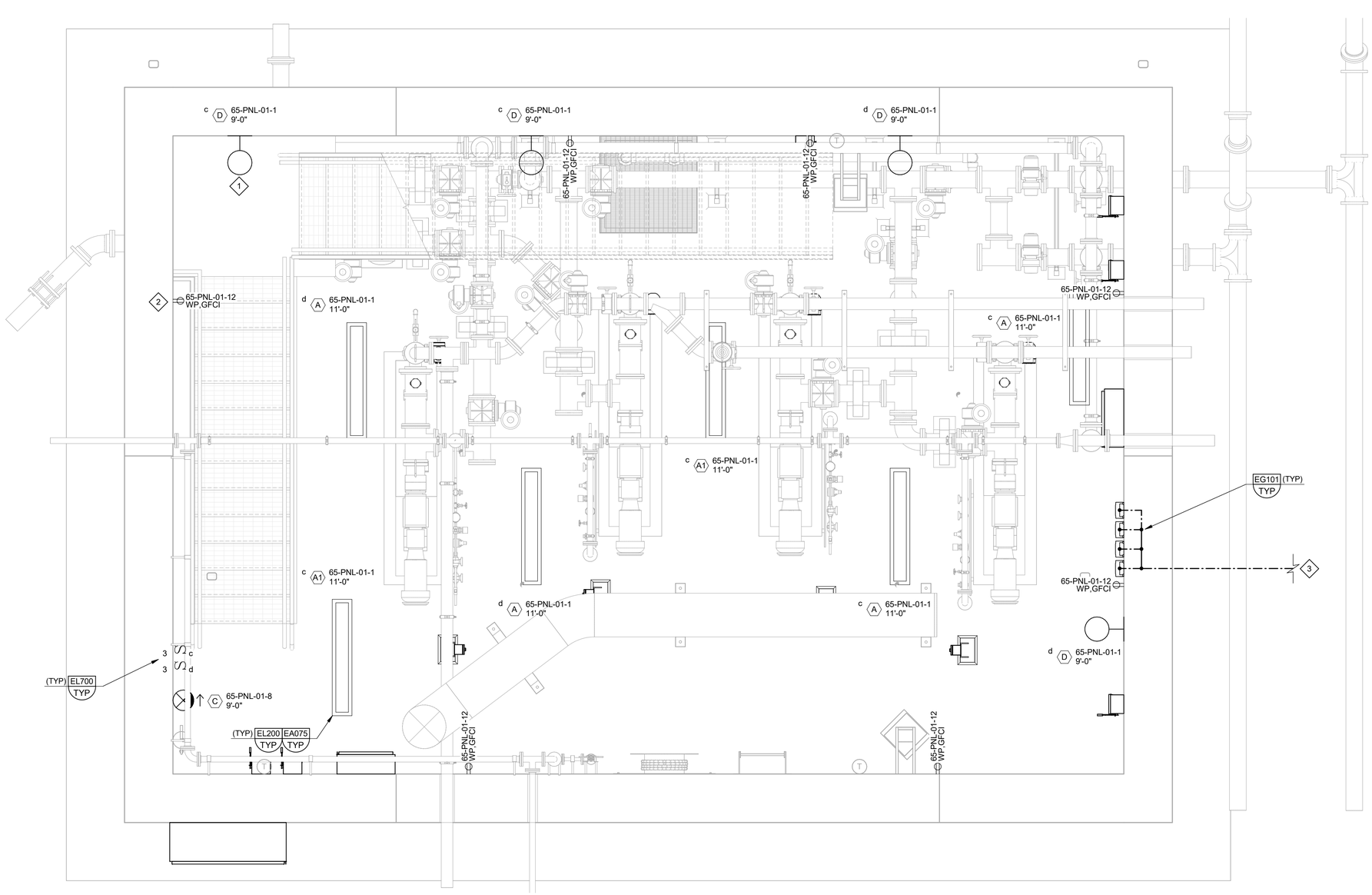
SLUDGE PUMP STATION UPPER LEVEL POWER AND CONTROL PLAN

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

JOB NO. 203356
DRAWING NO. 65E03
SHEET NO. 91 OF 162

PLOT DATE: 6/9/2025 3:47:14 PM

FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_65E0801.rvt



E PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES:

1. MOUNTING HEIGHT IS FROM STAIR LANDING DIRECTLY BELOW FIXTURE.
2. RECEPTACLE IS LOCATED BELOW THE STAIRS.
3. BOND FLOW TRANSMITTERS 65-FIT-921, 65-FIT-922, 65-FIT-930 AND 65-FIT-934 TO THE GROUNDING SYSTEM ON DWG 65E05 PER DETAIL NF135/TYP. GROUNDING IS SHOWN TO THE TRANSMITTERS FOR CLARITY PURPOSE, CONNECTION SHOULD BE MADE TO THE FLOW TUBES.

REV	DATE	BY	DESCRIPTION

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18 - ELECTRICAL

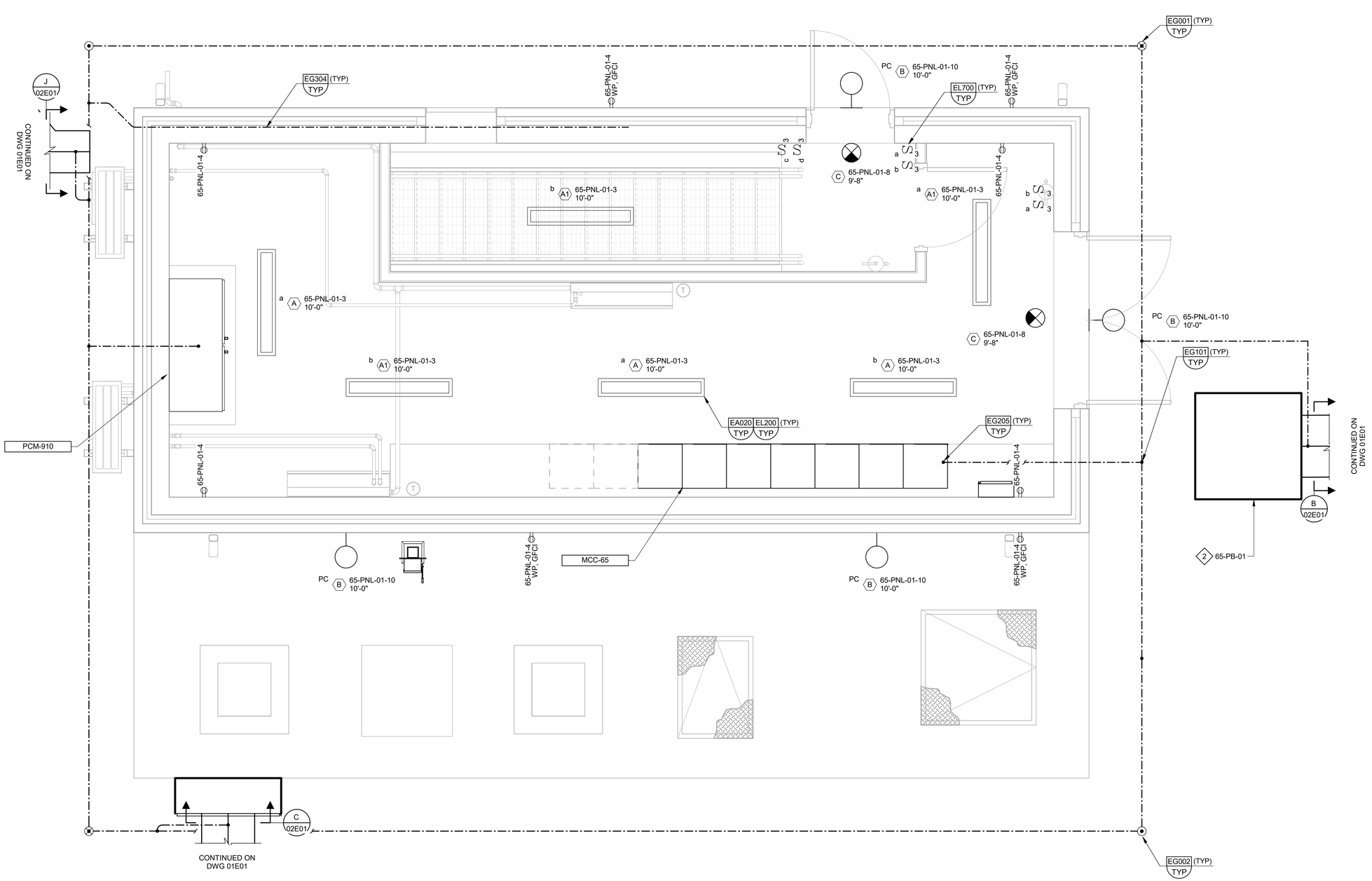
SLUDGE PUMP STATION LOWER LEVEL LIGHTING AND GROUNDING PLAN

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

JOB NO. 203356
DRAWING NO. 65E04
SHEET NO. 92 OF 162

PLOT DATE: 6/5/2025 10:12:13 AM

FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_65E0801.rvt



F PLAN
01E01
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION

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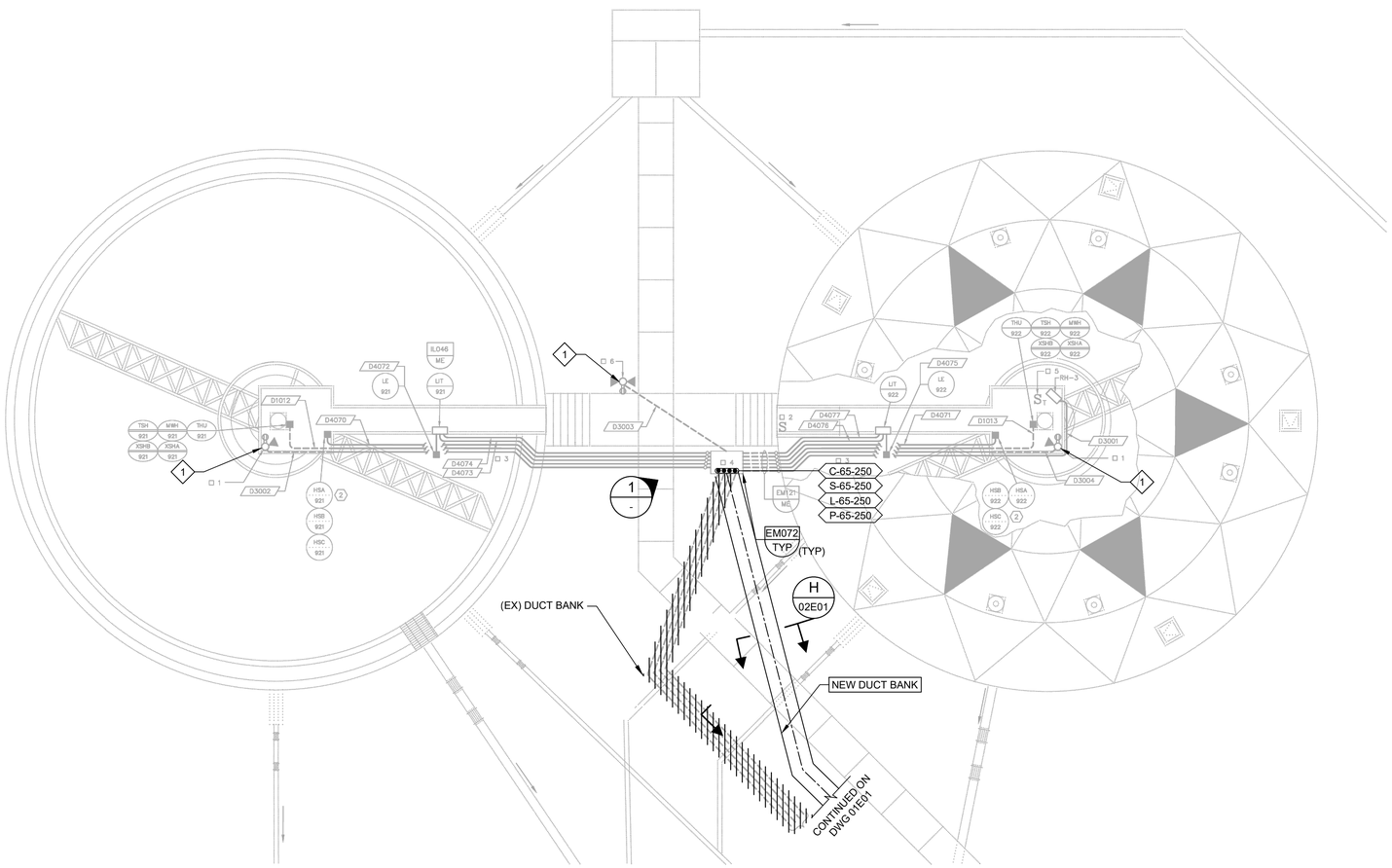
ELECTRICAL
SLUDGE PUMP STATION UPPER LEVEL LIGHTING AND GROUNDING PLAN

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

JOB NO. 203356
DRAWING NO. 65E05
SHEET NO. 93 OF 162

PLOT DATE: 6/6/2025 10:12:14 AM

FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_65E0801.rvt



A PLAN
01E01
SCALE: NO SCALE
FILE: 203356_66E0101

1 PHOTO
-
SCALE: NO SCALE
FILE: 203356_66E0402

GENERAL NOTES:

1. REFER TO THE WORK SEQUENCE BELOW FOR DEMOLITION OF THE EXISTING DUCT BANK AND INSTALLATION OF THE NEW DUCT BANK BETWEEN THE PULLBOX AND THE SLUDGE PUMP STATION. COORDINATE WITH THE DEMOLITION WORK SHOWN ON THE DEMOLITION DRAWINGS.
2. DEMOLITION WORK SEQUENCE:
   - A. PROVIDE TEMPORARY POWER AND CONTROL FOR THE THICKENERS DURING THE DEMOLITION OF THE EXISTING DUCT BANK AND INSTALLATION OF THE NEW DUCT BANK BETWEEN THE PULLBOX AND SLUDGE PUMP STATION. COORDINATE WITH THE OWNER TO DEFINE THE SCOPE OF TEMPORARY POWER AND CONTROL.
   - B. TURN OFF FEEDER BREAKERS SUPPLYING POWER TO THICKENERS THU-921 AND THU-922 AT MCC-22. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM THE CONDUITS BETWEEN MCC-22 IN THE DEWATERING BUILDING AND THE THICKENERS AS SHOWN ON THE PLAN. ENSURE ALL CONDUCTORS ARE DE-ENERGIZED BEFORE BEGINNING REMOVAL.
   - C. DISCONNECT AND REMOVE ALL SIGNAL AND CONTROL WIRES BETWEEN THE INSTRUMENTS/EQUIPMENT AT THE THICKENERS AND VCP-900 IN THE DEWATERING BUILDING.
   - D. DISCONNECT AND REMOVE LIGHTING AND RECEPTACLE WIRES FROM PANELBOARDS LP-221 AND LP-222 FOR THE THICKENERS. THE LIGHTS AND RECEPTACLES WILL NOW BE FED BY PANELBOARD 65-PNL-01 LOCATED INSIDE NEW MCC-65. SEE THE PANELBOARD SCHEDULE FOR MORE DETAILS.
   - E. DEMOLISH THE EXISTING DUCT BANK BETWEEN THE PULLBOX SHOWN ON THIS PLAN DRAWING AND THE NEW HANDHOLE HH-01. SAWCUT CONDUITS AT HANDHOLE HH-01 PER DETAIL EM003/TYP, AND PRESERVE THE EXISTING CONDUITS FROM THE HANDHOLE TO THE DEWATERING BUILDING. REFER TO THE SITE PLAN FOR HANDHOLE HH-01 LOCATION AND COORDINATE WORK WITH THE DEMOLITION NOTES ON THE DEMOLITION DRAWINGS.
3. INSTALLATION WORK SEQUENCE:
   - A. INSTALL THE NEW DUCT BANK BETWEEN THE SLUDGE PUMP STATION AND THE EXISTING PULLBOX SHOWN ON THIS PLAN DRAWING.
   - B. INSTALL NEW CONDUCTORS BETWEEN THE THICKENER EQUIPMENT/INSTRUMENTS AND MCC-65 AND PCM-910 IN THE ELECTRICAL ROOM OF THE SLUDGE PUMP STATION, UTILIZING THE EXISTING CONDUITS BETWEEN THE THICKENER EQUIPMENT/INSTRUMENTS AND THE PULLBOX, AND NEW CONDUITS FROM THE PULLBOX TO THE ELECTRICAL ROOM AT THE SLUDGE PUMP STATION. REFER TO THE INSTRUMENTATION DRAWINGS AND CONDUIT SCHEDULE FOR WIRING DETAILS.
   - C. INSTALL NEW CONDUCTORS FOR THE THICKENER LIGHTS AND RECEPTACLES USING EXISTING CONDUITS BETWEEN LIGHTS/RECEPTACLES AND PULLBOX AND NEW CONDUITS FROM THE PULLBOX TO PANELBOARD 65-PNL-01 INSIDE NEW MCC-65. REFER TO THE PANELBOARD SCHEDULE FOR DETAILS.
   - D. TEST EQUIPMENT AND ALL TERMINATION TO VERIFY PROPER INSTALLATION.

KEY NOTES:

1. REPLACE EXISTING 277V LIGHTS WITH 120V TYPE E LUMINAIRE. REFER TO PANELBOARD AND LUMINAIRE SCHEDULES FOR DETAILS.

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WEBER BASIN WATER CONSERVANCY DISTRICT

WEBER BASIN WATER CONSERVANCY DISTRICT

DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

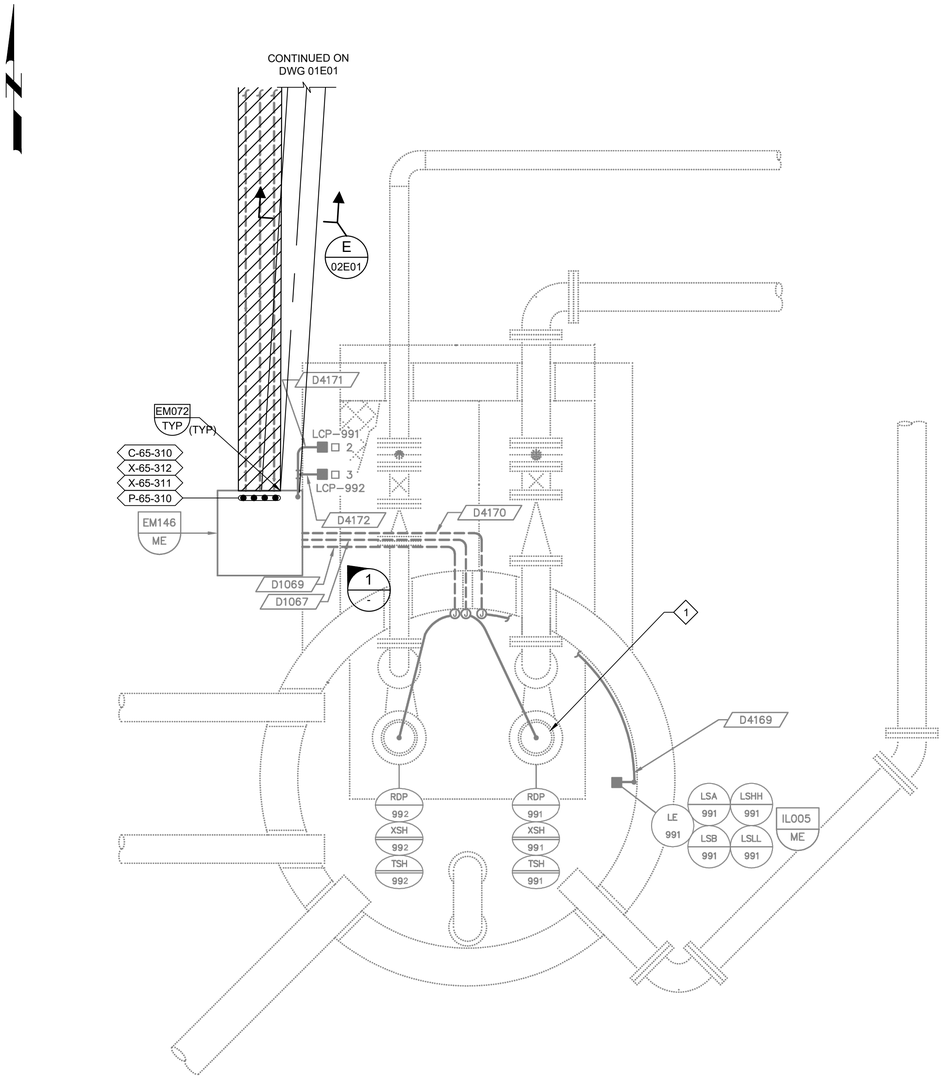
GRAVITY THICKENERS 1 & 2
POWER AND CONTROL PLAN

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

JOB NO. 203356
DRAWING NO. 66E01
SHEET NO. 94 OF 162

LAST SAVED BY: LMorris

PROJECT NO. 203356-100000 FILE NAME: 203356_66E01.dwg



B 01E01 PLAN
SCALE: NO SCALE
FILE: 203356_66E0102

1 - PHOTO
SCALE: NO SCALE
FILE: 203356_66E0402

GENERAL NOTES:

1. REFER TO THE WORK SEQUENCE BELOW FOR DEMOLITION OF THE EXISTING DUCT BANK AND INSTALLATION OF THE NEW DUCT BANK BETWEEN THE PULLBOX AND THE SLUDGE PUMP STATION. COORDINATE WITH THE DEMOLITION WORK SHOWN ON THE DEMOLITION DRAWINGS.
2. DEMOLITION WORK SEQUENCE:
   A. PROVIDE TEMPORARY POWER AND CONTROL FOR THE RECYCLED DECANT PUMP STATION DURING THE DEMOLITION OF THE EXISTING DUCT BANK AND INSTALLATION OF THE NEW DUCT BANK BETWEEN THE EXISTING HANDHOLE AND SLUDGE PUMP STATION. COORDINATE WITH THE OWNER TO DEFINE THE SCOPE OF TEMPORARY POWER AND CONTROL.
   B. TURN OFF FEEDER BREAKERS SUPPLYING POWER TO RECYCLED DECANT PUMPS RDP-991 AND RDP-992 AT MCC-22. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM THE CONDUITS BETWEEN MCC-22 IN THE DEWATERING BUILDING AND THE RECYCLED DECANT PUMPS AS SHOWN ON THE PLAN. ENSURE ALL CONDUCTORS ARE DE-ENERGIZED BEFORE BEGINNING REMOVAL.
   C. DISCONNECT AND REMOVE ALL SIGNAL AND CONTROL WIRES BETWEEN THE INSTRUMENTS/EQUIPMENT AT THE RECYCLED DECANT PUMP STATION AND VCP-900 IN THE DEWATERING BUILDING.
   D. DEMOLISH THE EXISTING DUCT BANK BETWEEN THE PULLBOX SHOWN ON THIS PLAN DRAWING AND THE NEW HANDHOLE HH-01. SAWCUT CONDUITS AT HANDHOLE HH-01 PER DETAIL EM003/TYP, AND PRESERVE THE EXISTING CONDUITS FROM THE HANDHOLE TO THE DEWATERING BUILDING. REFER TO THE SITE PLAN FOR HANDHOLE HH-01 LOCATION AND COORDINATE WORK WITH THE DEMOLITION NOTES ON THE DEMOLITION DRAWINGS.
3. INSTALLATION WORK SEQUENCE:
   A. INSTALL THE NEW DUCT BANK BETWEEN THE SLUDGE PUMP STATION AND THE EXISTING PULLBOX SHOWN ON THIS PLAN DRAWING.
   B. INSTALL NEW CONDUCTORS BETWEEN THE RECYCLED DECANT PUMP STATION EQUIPMENT/INSTRUMENTS AND MCC-65 AND PCM-910 IN THE ELECTRICAL ROOM OF THE SLUDGE PUMP STATION, UTILIZING THE EXISTING CONDUITS BETWEEN THE RECYCLED DECANT PUMP STATION EQUIPMENT/INSTRUMENTS AND THE EXISTING HANDHOLE, AND NEW CONDUITS FROM THE PULLBOX TO THE ELECTRICAL ROOM AT THE SLUDGE PUMP STATION. REFER TO THE INSTRUMENTATION DRAWINGS AND CONDUIT SCHEDULE FOR WIRING DETAILS.
   C. TEST EQUIPMENT AND ALL TERMINATION TO VERIFY PROPER INSTALLATION.

KEY NOTES:

1. RECYCLE DECANT PUMP NO. 1 (RDP-991, 15HP) IS OUT OF SERVICE. REMOVE THE PUMP, ASSOCIATED CONDUITS, CONDUCTORS, AND LOCAL CONTROL PANEL.

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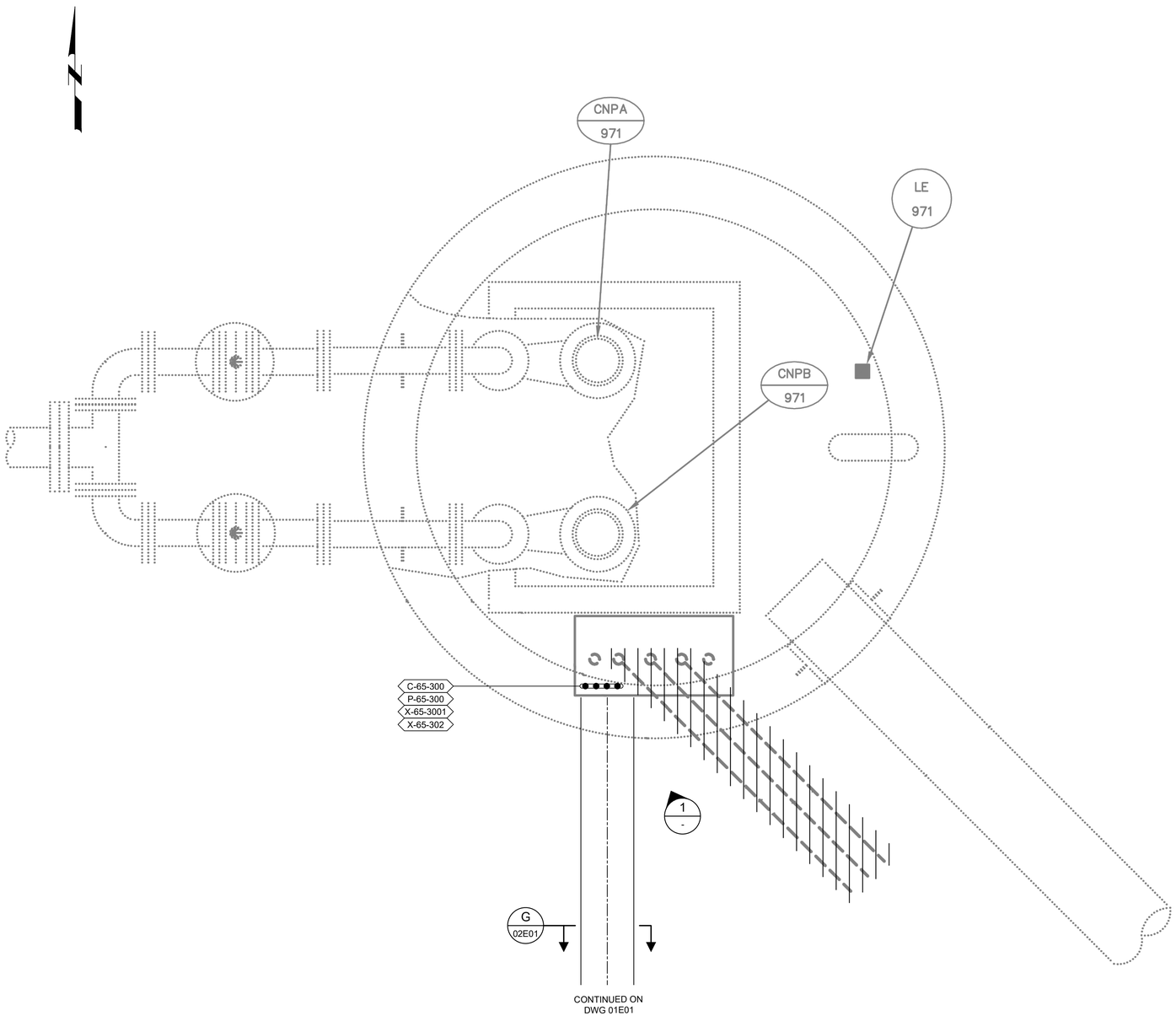
ELECTRICAL
RECYCLED DECANT PUMP STATION
POWER AND CONTROL PLAN

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

JOB NO. 203356
DRAWING NO. 66E02
SHEET NO. 95 OF 162

LAST SAVED BY: LMorris

PROJECT NO. 203356-100000 FILE NAME: 203356_66E02.dwg



C 01E01 PLAN
SCALE: NO SCALE
FILE: 203356_66E0103

GENERAL NOTES:

1. REFER TO THE WORK SEQUENCE BELOW FOR DEMOLITION OF THE EXISTING DUCT BANK AND INSTALLATION OF THE NEW DUCT BANK BETWEEN THE PULLBOX AND THE SLUDGE PUMP STATION. COORDINATE WITH THE DEMOLITION WORK SHOWN ON THE DEMOLITION DRAWINGS.

2. DEMOLITION WORK SEQUENCE:
   A. PROVIDE TEMPORARY POWER AND CONTROL FOR THE CENTRATE PUMP STATION DURING THE DEMOLITION OF THE EXISTING DUCT BANK INSTALLATION OF THE NEW DUCT BANK BETWEEN CONTROL PANEL VCP-971 AND SLUDGE PUMP STATION. COORDINATE WITH THE OWNER TO DEFINE THE SCOPE OF TEMPORARY POWER AND CONTROL.
   B. TURN OFF FEEDER BREAKERS SUPPLYING POWER TO CENTRATE PUMP STATION CONTROL PANEL VCP-971 AT MCC-22. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM THE CONDUITS BETWEEN MCC-22 IN THE DEWATERING BUILDING AND THE CENTRATE PUMP STATION CONTROL PANEL VCP-971 AS SHOWN ON THE PLAN. ENSURE ALL CONDUCTORS ARE DE-ENERGIZED BEFORE BEGINNING REMOVAL.
   C. DISCONNECT AND REMOVE ALL SIGNAL AND CONTROL WIRES BETWEEN CONTROL PANEL VCP-971 AT THE CENTRATE PUMP STATION AND VCP-900 IN THE DEWATERING BUILDING.
   D. DEMOLISH THE EXISTING DUCT BANK BETWEEN CONTROL PANEL VCP-971 AND THE NEW HANDHOLE HH-01. SAWCUT CONDUITS AT HANDHOLE HH-01 PER DETAIL EM003/TYP, AND PRESERVE THE EXISTING CONDUITS FROM THE HANDHOLE TO THE DEWATERING BUILDING. REFER TO THE SITE PLAN FOR HANDHOLE HH-01 LOCATION AND COORDINATE WORK WITH THE DEMOLITION NOTES ON THE DEMOLITION DRAWINGS.

3. INSTALLATION WORK SEQUENCE:
   A. INSTALL THE NEW DUCT BANK BETWEEN THE SLUDGE PUMP STATION AND THE EXISTING CONTROL PANEL VCP-971 SHOWN ON THIS PLAN DRAWING.
   B. INSTALL NEW CONDUCTORS BETWEEN CONTROL PANEL VCP-971 AND MCC-65 AND PCM-910 IN THE ELECTRICAL ROOM OF THE SLUDGE PUMP STATION USING NEW CONDUITS FROM VCP-971 TO THE ELECTRICAL ROOM. REFER TO THE INSTRUMENTATION DRAWINGS AND CONDUIT SCHEDULE FOR WIRING DETAILS.
   C. TEST EQUIPMENT AND ALL TERMINATION TO VERIFY PROPER INSTALLATION.

1 - PHOTO
SCALE: NO SCALE
FILE: 203356_66E0402

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
ELECTRICAL
CENTRATE PUMP STATION
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. 203356
DRAWING NO. 66E03
SHEET NO. 96 OF 162

LAST SAVED BY: LMorris

PROJECT NO. 203356-100000 FILE NAME: 203356_66E03.dwg

KEY NOTES:

1. DEMOLISH EXISTING VENDOR CONTROL PANEL VCP-1311, TRANSFORMER AND ASSOCIATED CONDUITS AND CONDUCTORS AS SHOWN. THE UNDERDRAIN PUMPS DON'T EXIST ANY MORE. ENSURE ALL CONDUCTORS ARE DE-ENERGIZED PRIOR TO COMMENCING THE DEMOLITION WORK.
2. PROVIDE NEW CONDUITS AND CONDUCTORS FROM PANELBOARD 65-PNL-01 LOCATED INSIDE MCC-65 AT THE SLUDGE PUMP STATION TO PROVIDE POWER FOR THE POLE LIGHT AND 120V PORTABLE TRASH PUMPS. SEE DUCT BANK SECTIONS AND CONDUIT SCHEDULES FOR DETAILS
3. PROVIDE SPARE CONDUITS FOR FUTURE POWER AND CONTROL USE AS SHOWN IN DUCT BANK SECTION F AND STUB THEM UP AT THIS LOCATION.

1 / 01E01 PHOTO
SCALE: NO SCALE
FILE: 203356_66E0402

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ELECTRICAL
UNDER DRAIN PUMP STATION
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

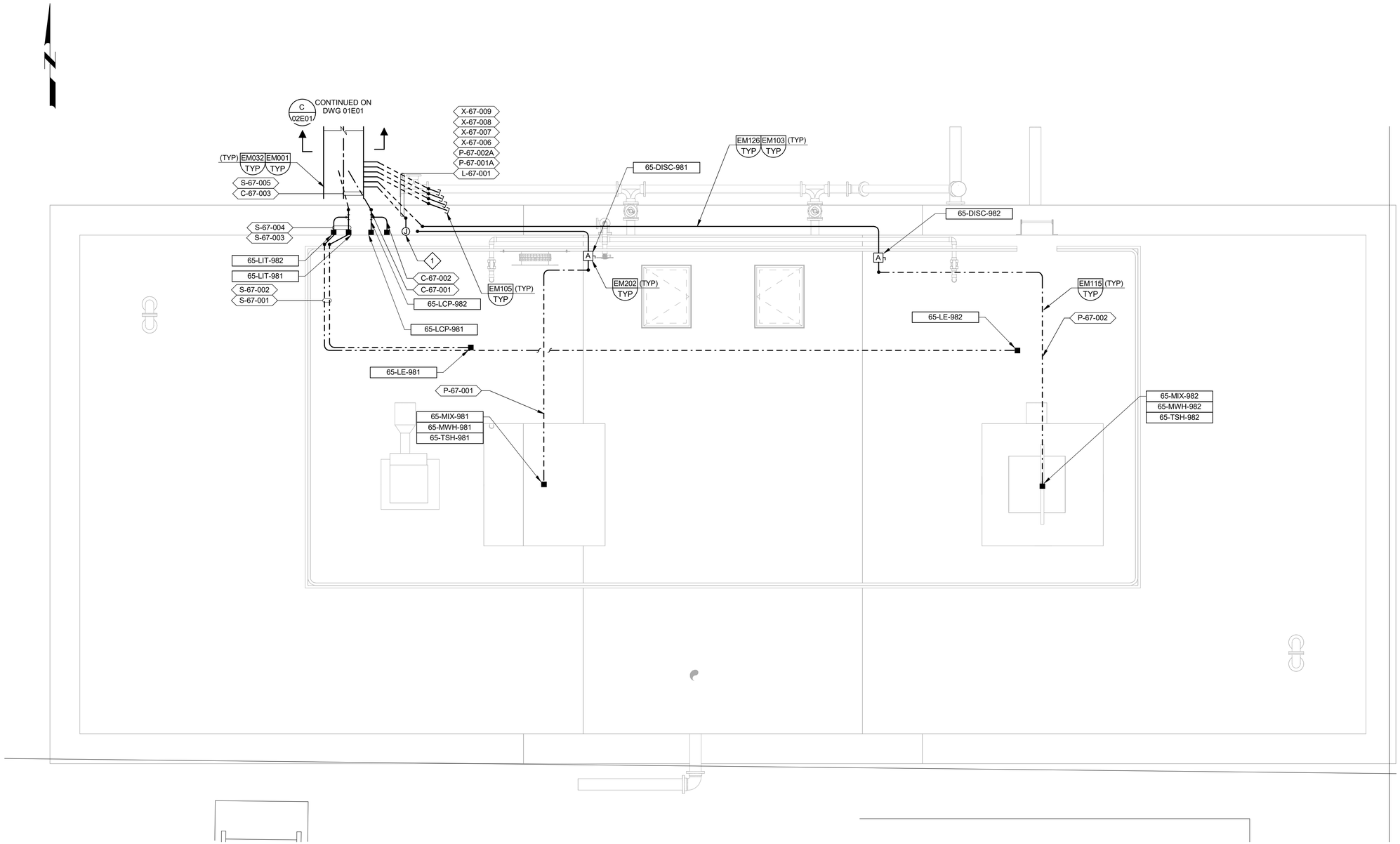
JOB NO. 203356
DRAWING NO. 66E04
SHEET NO. 97 OF 162

LAST SAVED BY: LMorris

PROJECT NO. 203356-100000 FILE NAME: 203356_66E04.dwg

KEY NOTES:

1. CONTINUE CONDUITS FOR LIGHTING AND RECEPTACLES. REFER TO DRAWING 67E02 FOR LIGHTING AND RECEPTACLES DETAILS.



A PLAN
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION

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DATE JUNE 2025

REGISTERED PROFESSIONAL ENGINEER
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STATE OF UTAH

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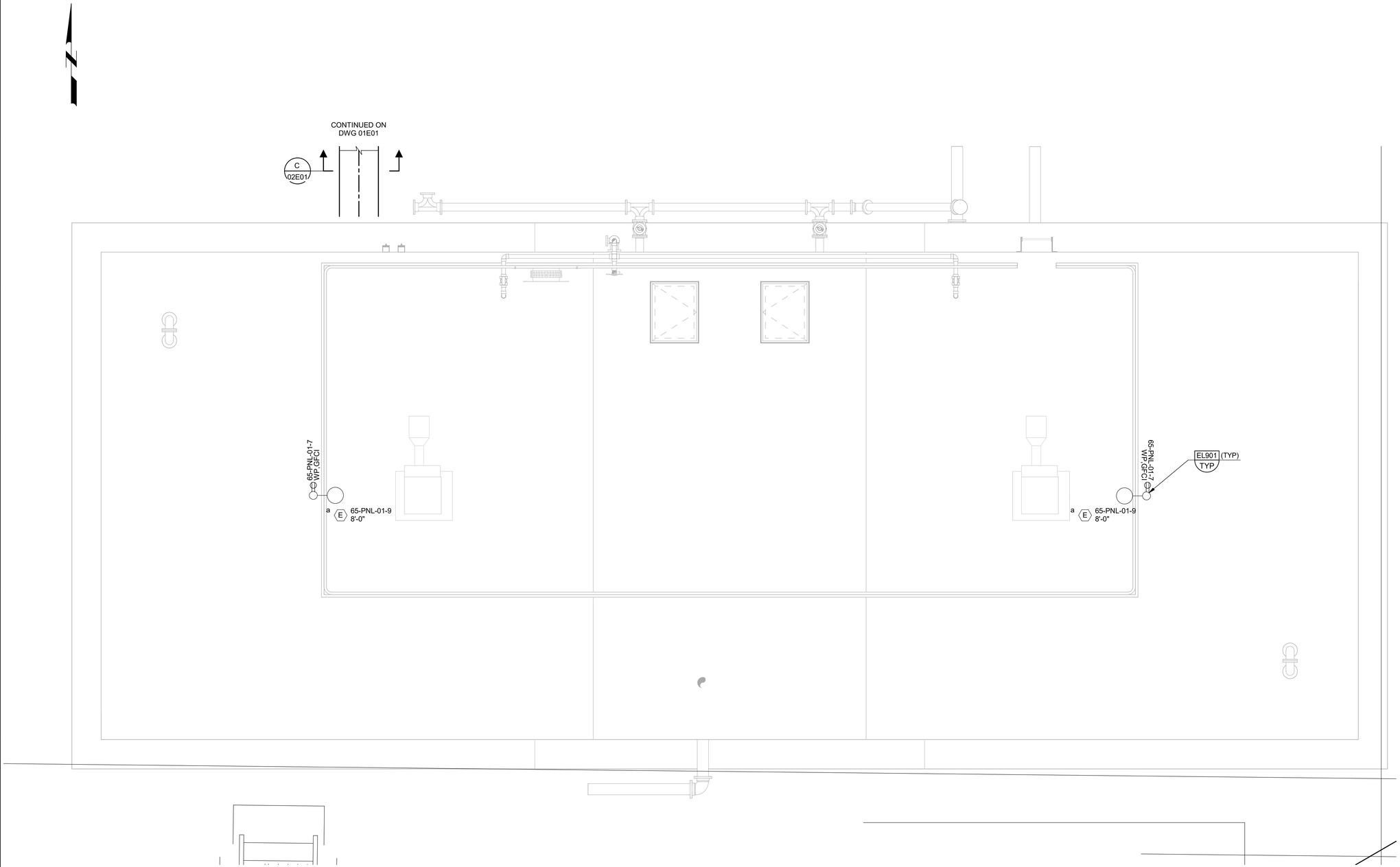
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
ELECTRICAL
SLUDGE DAY TANK POWER AND CONTROL PLAN

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

JOB NO. 203356
DRAWING NO. 67E01
SHEET NO. 98 OF 162

PLOT DATE: 6/5/2025 11:07:19 AM

FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_67E0801.rvt



B **PLAN**
SCALE: 3/8" = 1'-0"

REV	DATE	BY	DESCRIPTION

DESIGNED BT
DRAWN LM
CHECKED GE
DATE JUNE 2025

REGISTERED PROFESSIONAL ENGINEER
No. 5329023
GUY C. EHLERS
STATE OF UTAH

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DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

ELECTRICAL

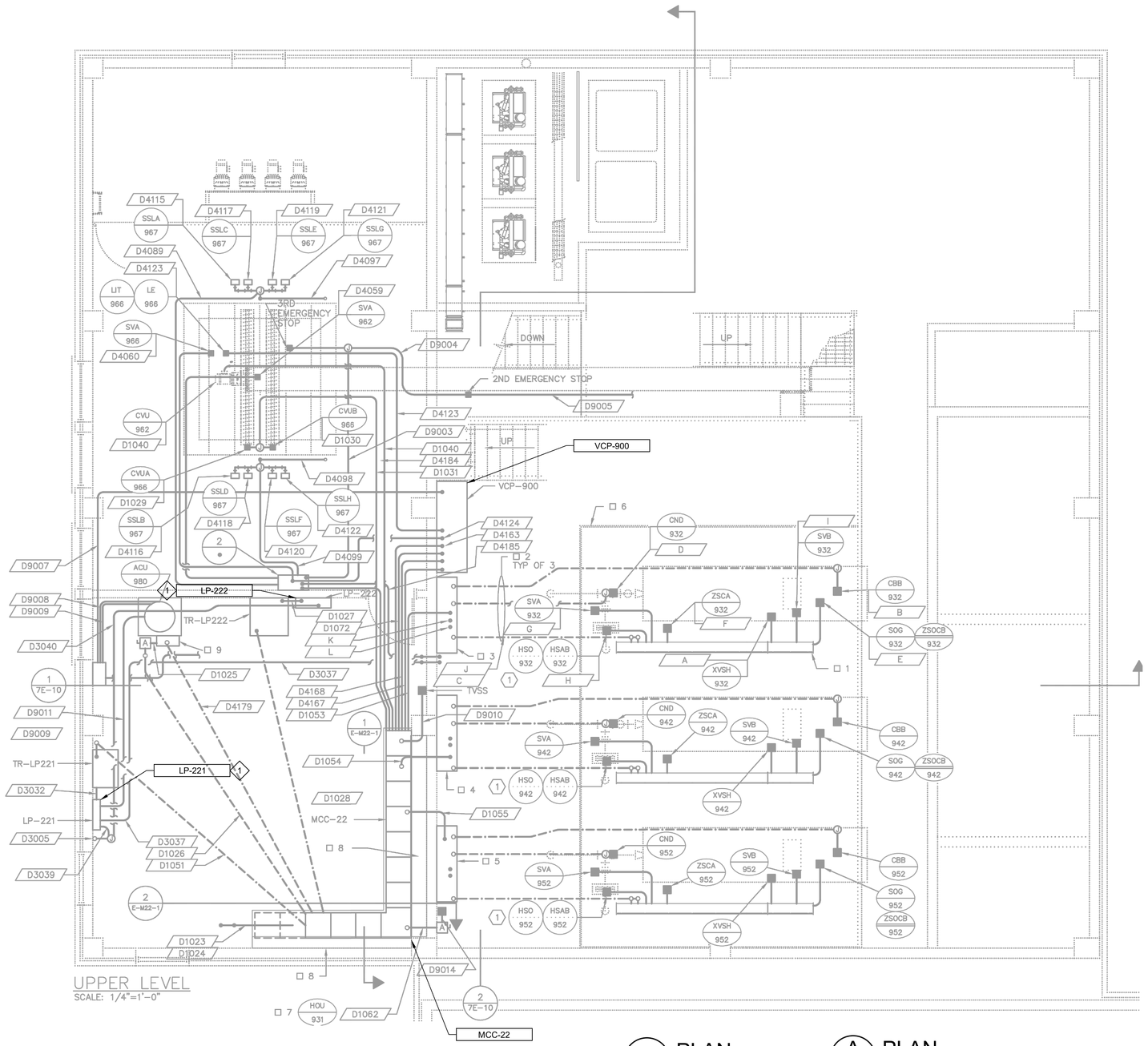
SLUDGE DAY TANK LIGHTING AND GROUNDING PLAN

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

JOB NO. 203356
DRAWING NO. 67E02
SHEET NO. 99 OF 162

PLOT DATE: 6/5/2025 11:07:19 AM

FILE NAME: Autodesk Docs://WBWCD 203356 Davis North WTP/203356_67E0801.rvt



A PLAN
FILE: FILE

A 01E01 PLAN
SCALE: NO SCALE
FILE: 203356_70E0101

GENERAL NOTES:

1. PLAN DRAWING IS TAKEN FROM WATER TREATMENT PANT NO. 3 EXPANSION 2001 RECORD DRAWINGS PROVIDED BY OTHERS. ACCURACY OF EXISTING DRAWINGS CANNOT BE GUARANTEED. FIELD VERIFY ALL CONDITIONS PRIOR TO PERFORMING THE WORK.
2. UTILIZE EXISTING CONDUITS FROM MCC-22 TO HANDHOLE HH-01 FOR POWER CONDUCTORS BETWEEN MCC-65 AND MCC-22 . REFER TO CONDUIT SCHEDULE FOR DETAILS.
3. UTILIZE EXISTING CONDUITS FROM VCP-900 TO HANDHOLE HH-01 FOR NETWORK CONDUCTORS BETWEEN PCM-910 AND VCP-900. REFER TO CONDUIT SCHEDULE FOR DETAILS.
4. PLAN IS REFERENCED ON 01E01 AS AREA 70 DEWATERING BUILDING.

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM PANELBOARD LP-221, CIRCUIT 15, AND PANELBOARD LP-222, CIRCUIT 1, AND LABEL THESE CIRCUITS AS SPARE. THE THICKENER LIGHTS AND RECEPTACLES WILL NOW BE SUPPLIED BY THE NEW PANELBOARD 65-PNL-01 LOCATED INSIDE MCC-65 AT THE SLUDGE PUMP STATION. REFER TO PANEL 65-PNL-01 FOR DETAILS.

REV	DATE	BY	DESCRIPTION

DESIGNED BT
DRAWN DM
CHECKED GE
DATE JUNE 2025

REGISTERED PROFESSIONAL ENGINEER No. 5329023 GUY C. EHLERS STATE OF UTAH

carollo®

WEBER BASIN WATER CONSERVANCY DISTRICT

WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
ELECTRICAL
DEWATERING BUILDING UPPER 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. 203356
DRAWING NO. 70E01
SHEET NO. 100 OF 162

LAST SAVED BY: LMorris

PROJECT NO. 203356-100000 FILE NAME: 203356_70E01.dwg