

35 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
 FILE: 201238-01-010-901.dwg

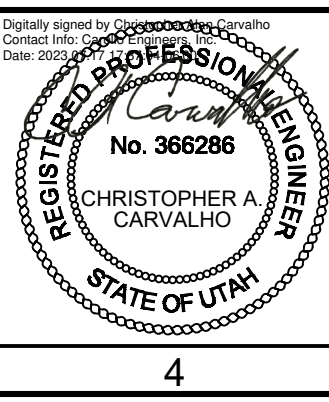
REV	DATE	BY	DESCRIPTION

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SV South Valley
 WATER RECLAMATION FACILITY
 7495 South 1300 West
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
AREA 35 SITE PLAN

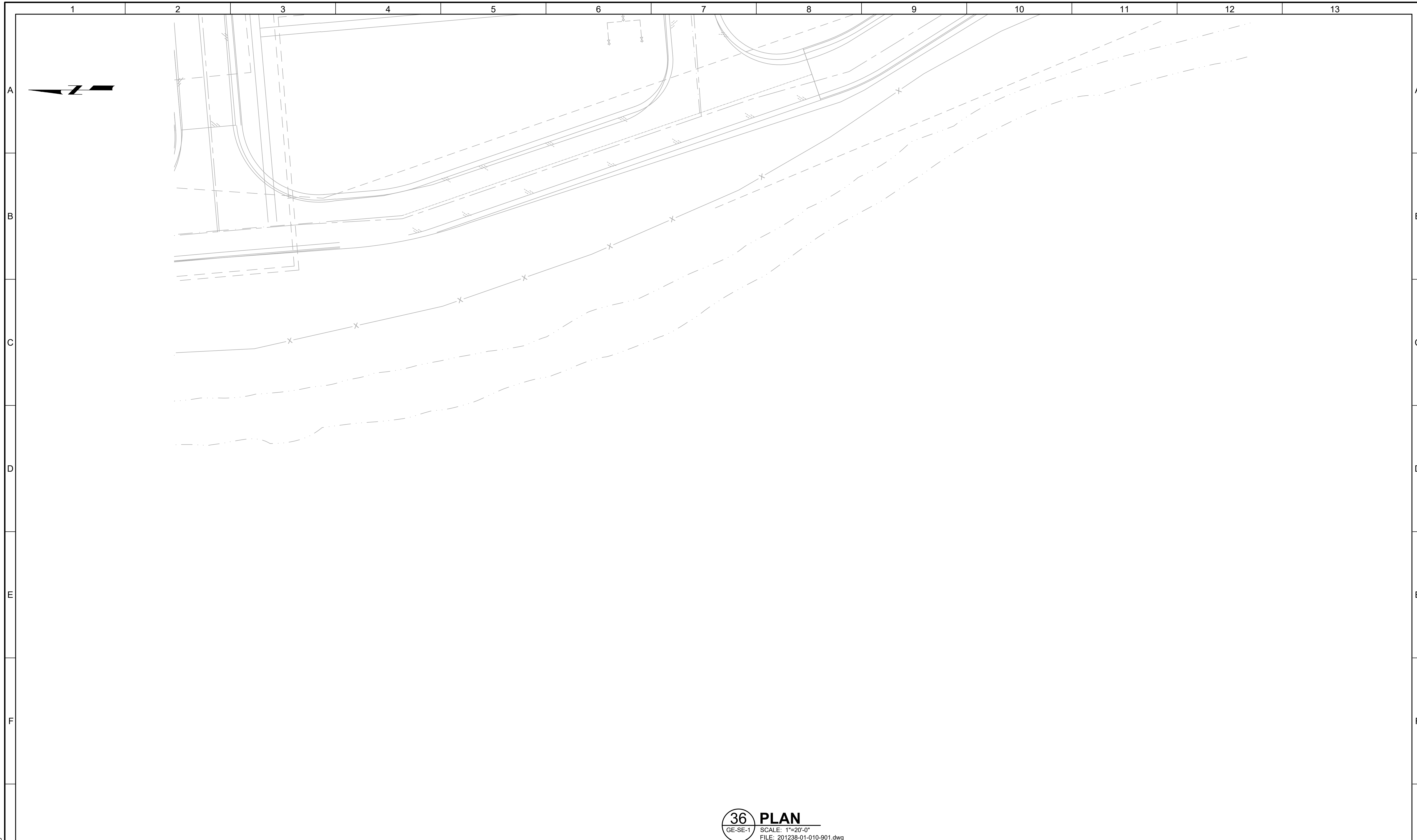
VERIFY SCALES
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 0 1"
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JOB NO.
201238

DRAWING NO.
GE-SE-35

SHEET NO.
13 OF 116

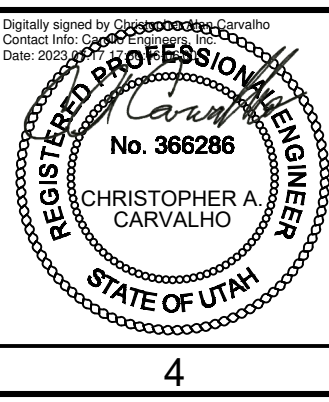
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36 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
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 West Jordan, Utah 84084

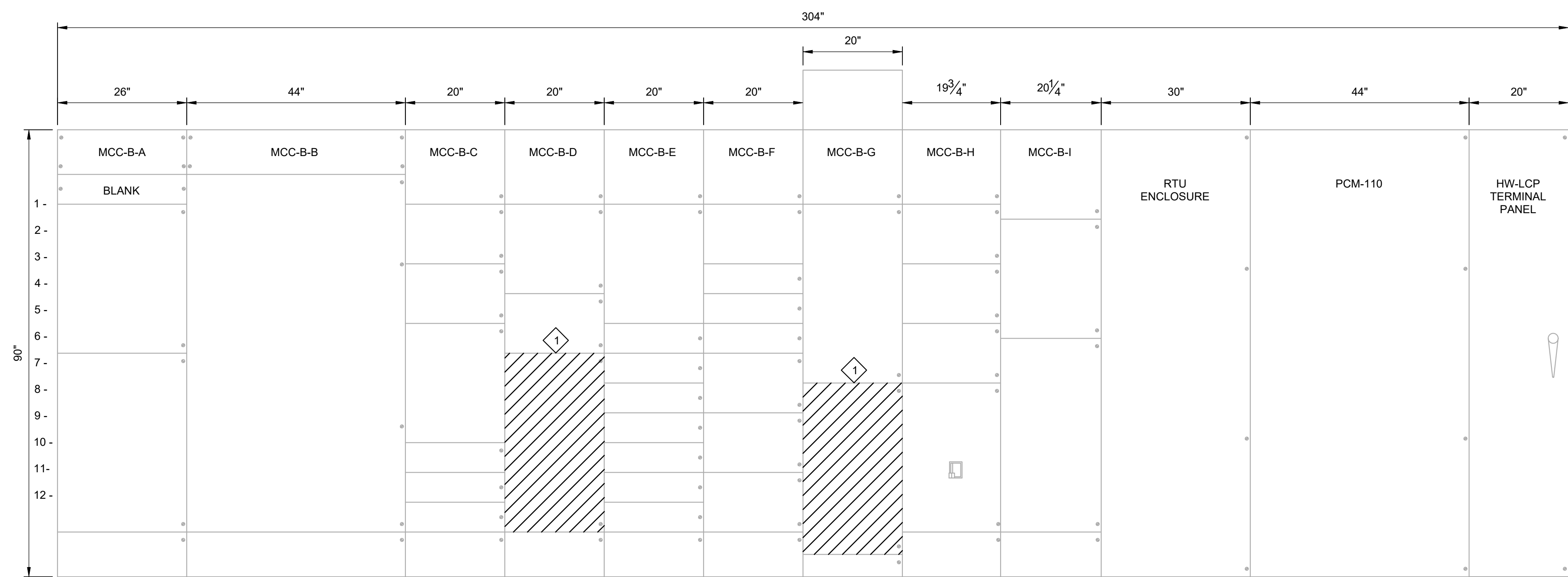
SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
AREA 36 SITE PLAN

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

JOB NO. 201238
 DRAWING NO. **GE-SE-36**
 SHEET NO. 14 OF 116

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KEY NOTES:
 1. DEMOLISH THE EXISTING STARTER AND CIRCUIT BREAKER, MCC BUCKETS AND DOORS AS REQUIRED TO ACCOMMODATE THE NEW CIRCUIT BREAKERS.



HW-MCC B ELEVATION
 SCALE: 3/4" = 1'-0"

- | | | | | | | | | |
|------------|-------------|--------------------------------|-----------------|--------------------------------|-------------------------------|-------------------|-----------------------------|----------------------------|
| A1 -SG-EDB | B1 -2000ATS | C2 -HW-P-8
-DEWATERING PUMP | D2 -SPARE | E2 -SPARE | F2 -SPACE | G2 -CONTROL PANEL | H2 -HW-P-101
-SEAL WATER | I2 -SPACE |
| A7 -ES2-5 | | C4 -HW-F-1 | D5 -HW-F-3 -FAN | E6 -SPARE | F4 -HW-P-9&10
-SUMP PUMPS | G8 -VFD 2&3 | H4 -HW-P-102
-SEAL WATER | I3 -HW-MCC-C FEEDER |
| | | C6 -SPARE | D7 -SPARE | E7 -AIR COMPRESSOR | F5 -SURGE SUPPRESSER | | H6 -HW-F-4 | I6 -HW-MCC-C
-SSCB-100% |
| | | C10 -SPARE | | E8 -SPARE | F6 -HW-B-6
-AIR COMPRESSOR | | H8 -HW-VFD-5 | |
| | | C11 -ROOF TOP -EVAP
COOLER | | E9 -PANEL SGB | F7 -HW-F-6 -FAN | | | |
| | | C12 -SPARE | | E10 -HW-ME-19
-BRIDGE CRANE | F9 -HW-P-12
-CIRC. PUMP | | | |
| | | | | E11 -O.H. DOOR
-POLE LIGHT | F11 -HW-P-11
-CIRC. PUMP | | | |
| | | | | E12 -PANEL LP-HW-2 | | | | |

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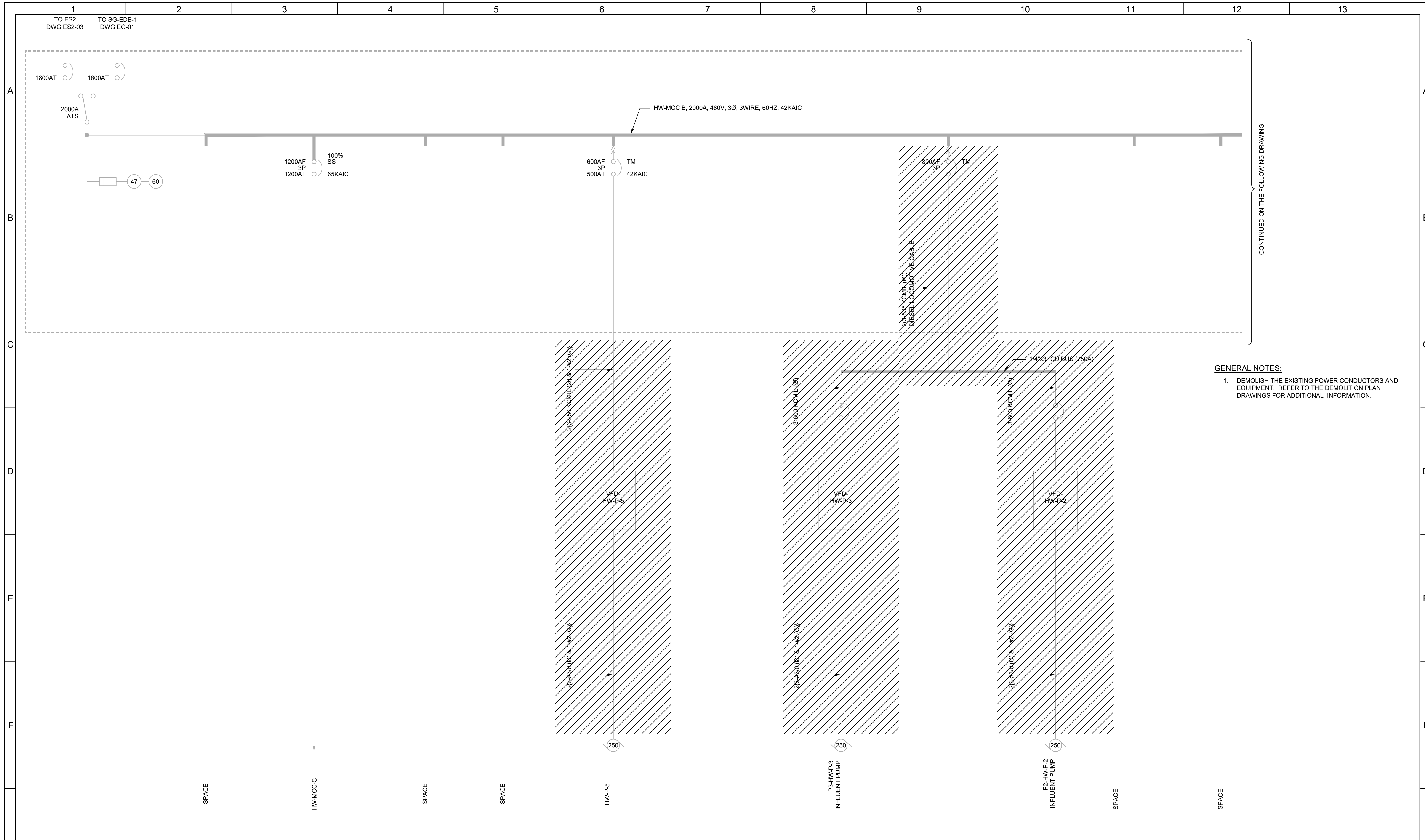
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JULY 2023



SV South Valley
 WATER RECLAMATION FACILITY
 7495 South 1300 West
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-HW-01
ELECTRICAL		0 1"	SHEET NO.
HW-MCC-B DEMOLITION ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	15 OF 116

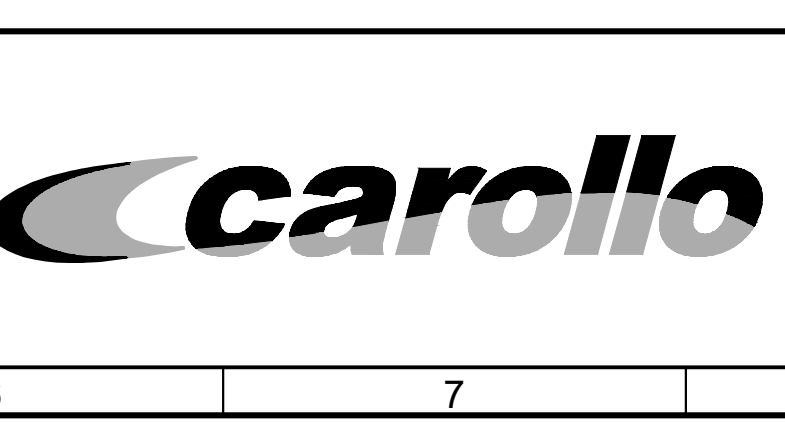
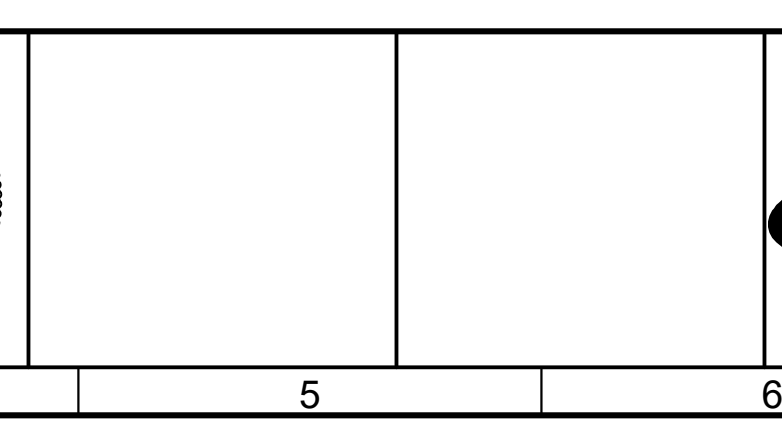


GENERAL NOTES:
 1. DEMOLISH THE EXISTING POWER CONDUCTORS AND EQUIPMENT. REFER TO THE DEMOLITION PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

CONTINUED ON THE FOLLOWING DRAWING

REV	DATE	BY	DESCRIPTION

DESIGNED CAC	
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DATE JULY 2023	

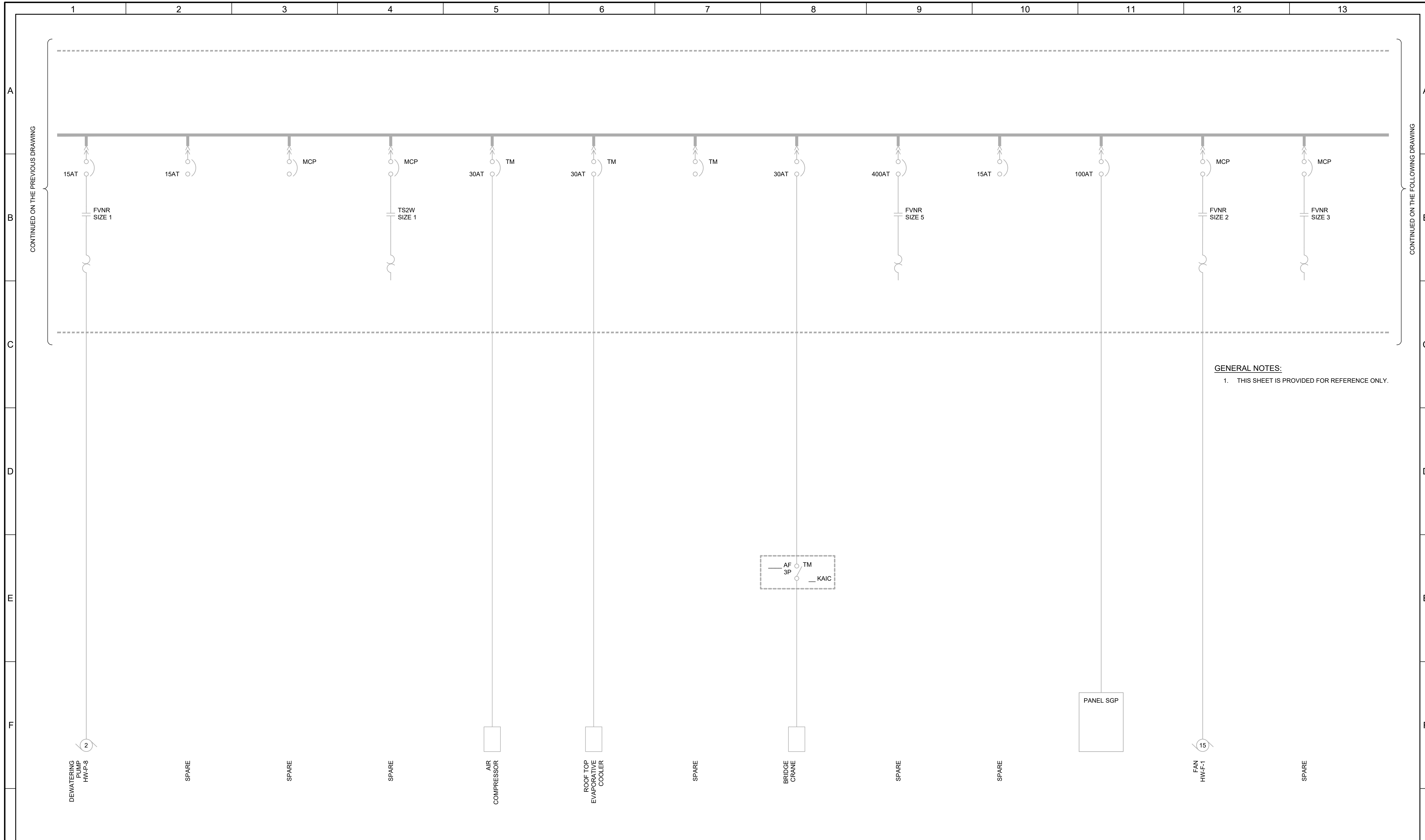


SOUTH VALLEY WATER RECLAMATION
 2023 VFD REPLACEMENT
 ELECTRICAL
HW-MCC-B
 DEMOLITION ONE-LINE DIAGRAM - 1

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

JOB NO. 201238
DRAWING NO. D-OL-HW-02
SHEET NO. 16 OF 116

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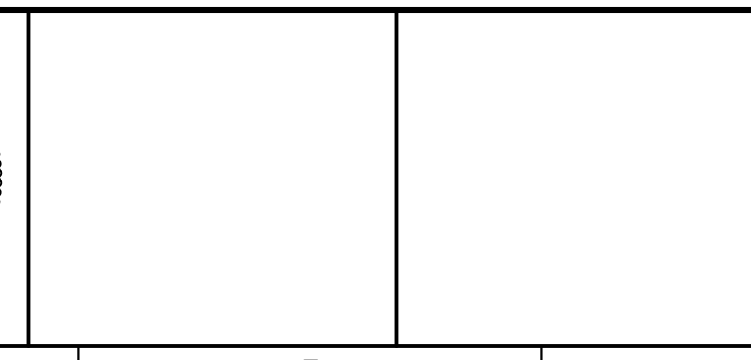


GENERAL NOTES:
 1. THIS SHEET IS PROVIDED FOR REFERENCE ONLY.

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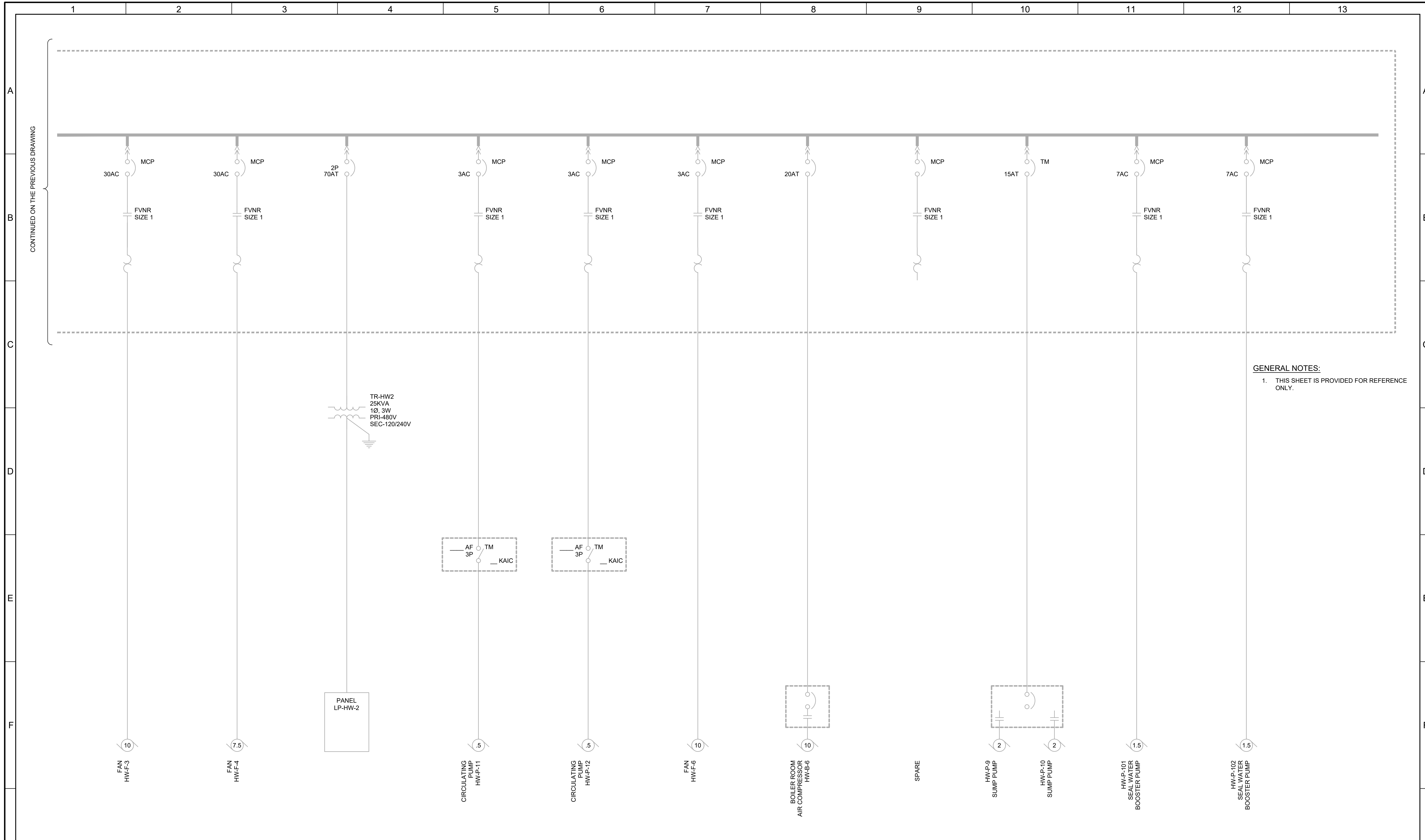
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DATE JULY 2023



SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
HW-MCC-B
DEMOLITION ONE-LINE DIAGRAM - 2

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238 DRAWING NO. D-OL-HW-03 SHEET NO. 17 OF 116
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CONTINUED ON THE PREVIOUS DRAWING

GENERAL NOTES:
 1. THIS SHEET IS PROVIDED FOR REFERENCE ONLY.

TR-HW2
 25KVA
 1Ø, 3W
 PRI-480V
 SEC-120/240V

PANEL
 LP-HW-2

AF 3P TM
 KAIC

AF 3P TM
 KAIC

BOILER ROOM
 AIR COMPRESSOR
 HW-B-6

HW-P-9
 SUMP PUMP

HW-P-10
 SUMP PUMP

HW-P-101
 SEAL WATER
 BOOSTER PUMP

HW-P-102
 SEAL WATER
 BOOSTER PUMP

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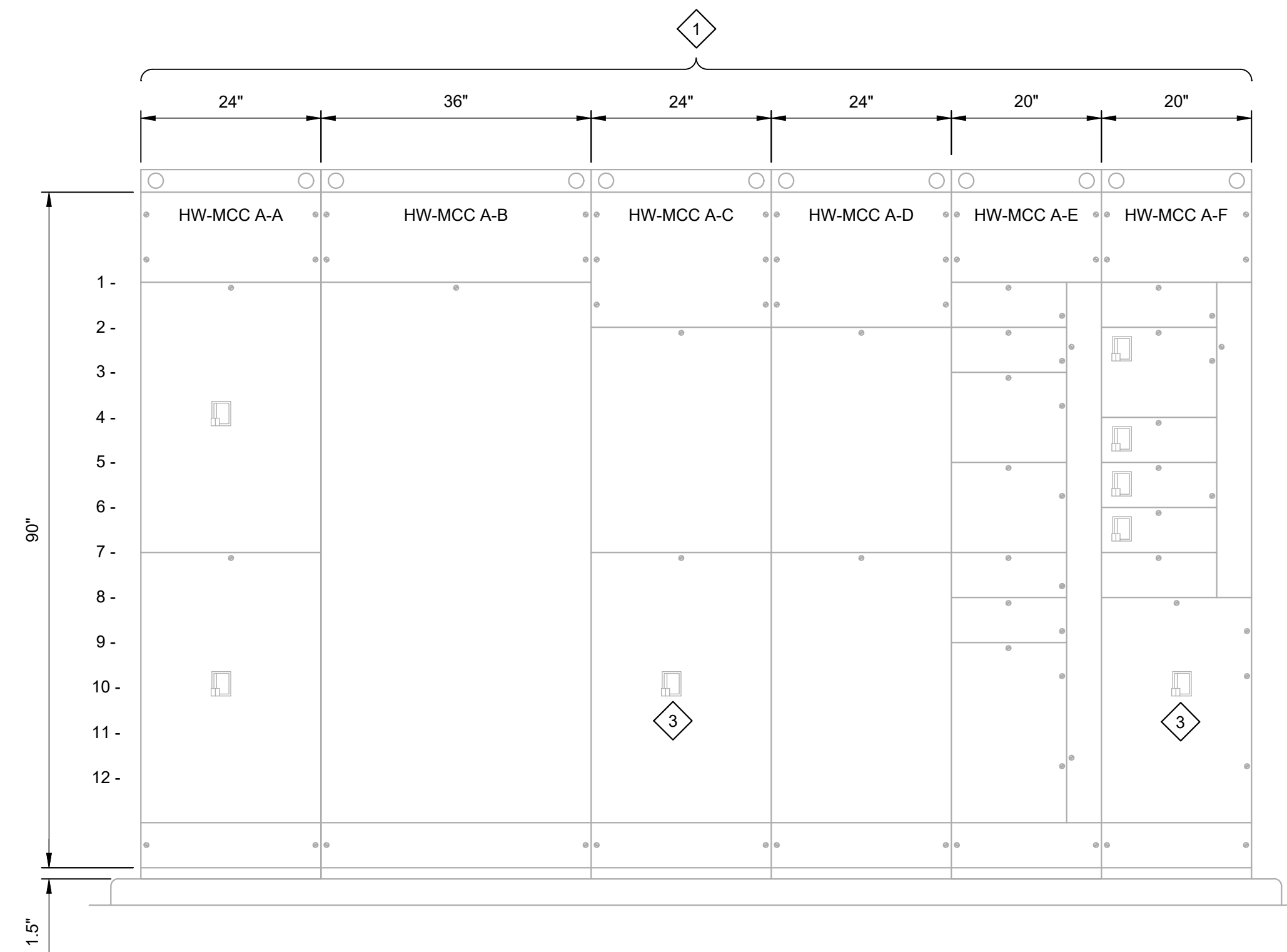
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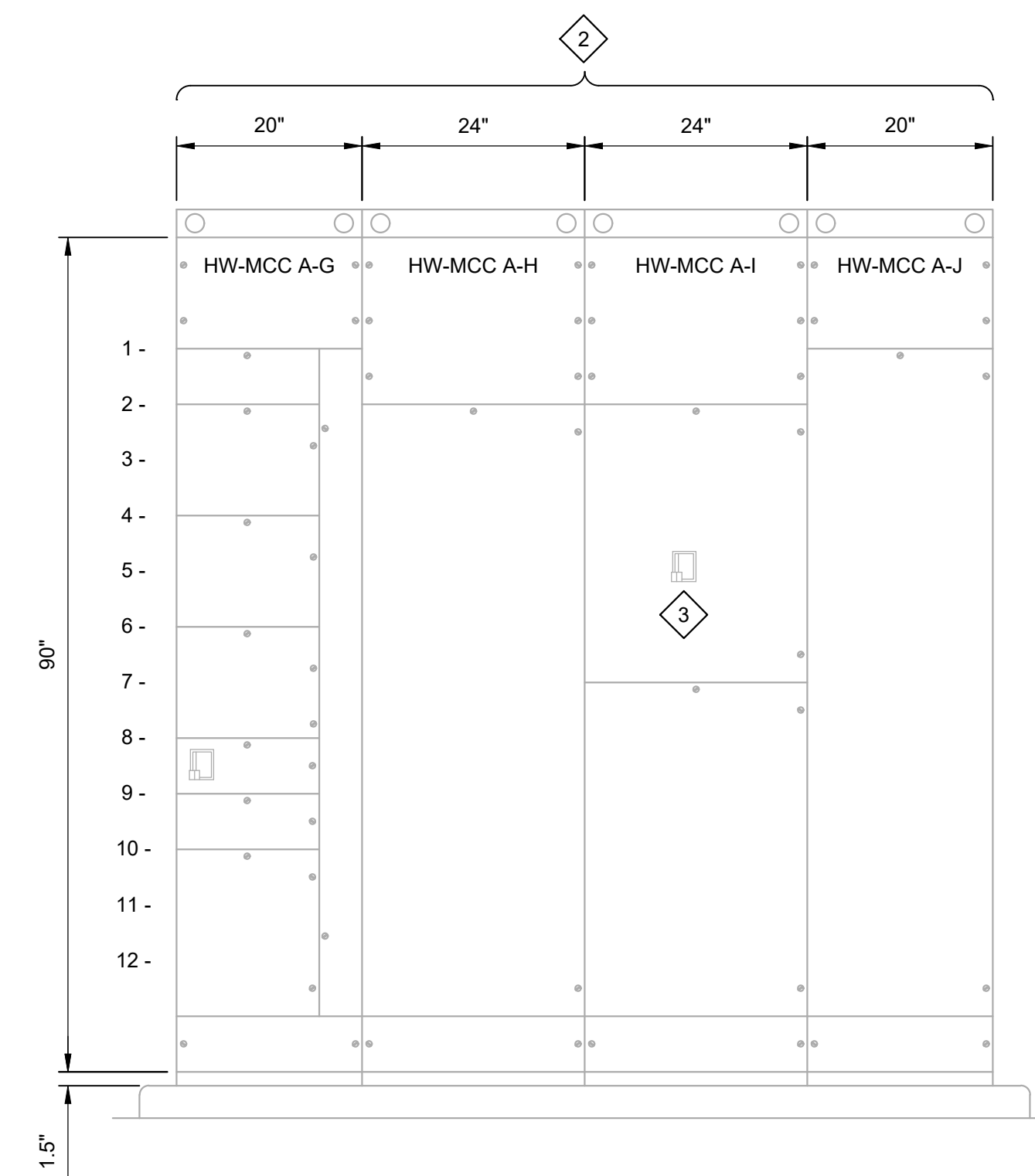
SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-HW-04
ELECTRICAL		0 1"	SHEET NO.
HW-MCC-B		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	18 OF 116
DEMOLITION ONE-LINE DIAGRAM - 3			

- KEY NOTES:**
- 1 HW-MCC A FRONT
GE SERIES 8000
CAT #0484X0418M01
DIAGRAM #234B9647
NEMA CLASS II, TYPE B, ENCL. 12
480V, 3Ø, 3W, 60Hz
1600 AMP MAIN BUS COPPER, SILVER PLATED
600 AMP GROUND BUS COPPER, SILVER PLATED
42,000A SYMMETRICAL BUS BRACING
14,000A SYMMETRICAL MCC SHORT CKT RATING
 - 2 HW-MCC A BACK
GE SERIES 8000
CAT #0484X0418M17
DIAGRAM
NEMA CLASS II, TYPE B, ENCL. 12
480V, 3Ø, 3W, 60Hz
1600 AMP MAIN BUS COPPER, SILVER PLATED
600 AMP GROUND BUS COPPER, SILVER PLATED
42,000A SYMMETRICAL BUS BRACING
14,000A SYMMETRICAL MCC SHORT CKT RATING
 - 2 REUSE EXISTING BREAKERS TO FEED THE NEW VFDS.



HW-MCC A FRONT ELEVATION

- | | | | | | |
|------------|----------|-------------|------------|---------------|--|
| A1 - SG-ED | B1 - ATS | C2 - SPACE | D2 - SPACE | E1 - SPACE | F1 - SPACE |
| A7 - ES2-1 | | C7 - HW-P-4 | D7 - SPACE | E2 - SPACE | F2 - SPARE |
| | | | | E3 - PMP-0161 | F4 - SPACE |
| | | | | E5 - PMP-0171 | F5 - AIR COMPRESSOR |
| | | | | E7 - B-101 | F6 - PRESSURE WASHER |
| | | | | E8 - B-102 | F7 - TRANSFORMER TR-HWI & PANELLHW-1 FDR |
| | | | | E9 - MCC-D | F8 - HW-P-6 |



HW-MCC A BACK ELEVATION

- | | | | |
|-------------------|------------|-------------|--------------|
| G1 - SPACE | H2 - SPACE | I2 - HW-P-7 | J1 - CONTROL |
| G2 - SPACE | | I7 - SPACE | |
| G4 - SPACE | | | |
| G6 - SPACE | | | |
| G8 - LP-XFMR | | | |
| G9 - DUMP STATION | | | |
| G10 - SPARE | | | |

(ALIGNED BEHIND SECTIONS C-F OF FRONT)

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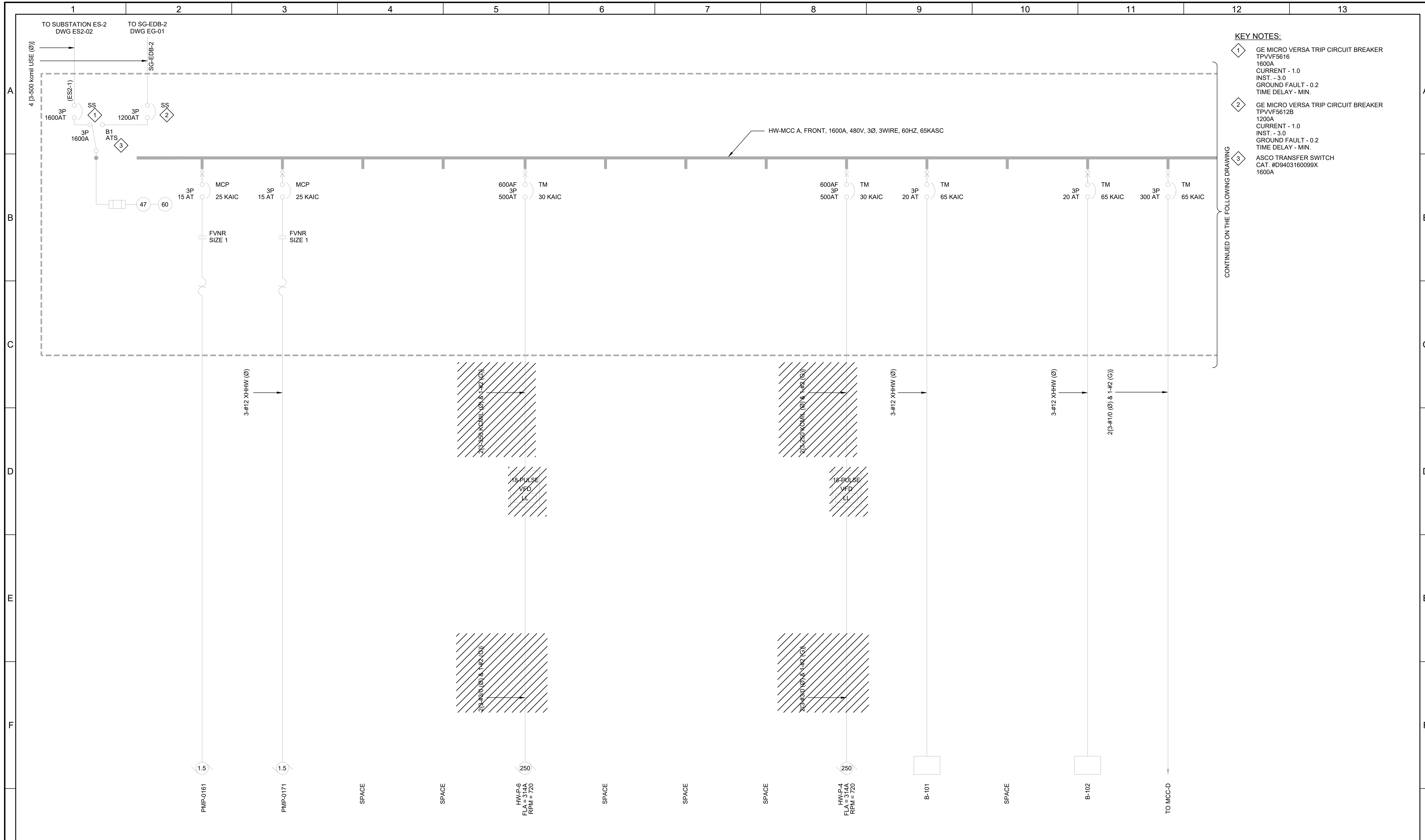


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7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
**HW-MCC-A
DEMOLITION ELEVATION**

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

JOB NO.
201238
DRAWING NO.
D-OL-HW-05
SHEET NO.
19 OF 116



- KEY NOTES:**
- 1 GE MICRO VERSA TRIP CIRCUIT BREAKER
TPVV5616
1600A
CURRENT - 1.0
INST. - 3.0
GROUND FAULT - 0.2
TIME DELAY - MIN.
 - 2 GE MICRO VERSA TRIP CIRCUIT BREAKER
TPVV5612B
1200A
CURRENT - 1.0
INST. - 3.0
GROUND FAULT - 0.2
TIME DELAY - MIN.
 - 3 ASCO TRANSFER SWITCH
CAT. #D9403160099X
1600A

CONTINUED ON THE FOLLOWING DRAWING

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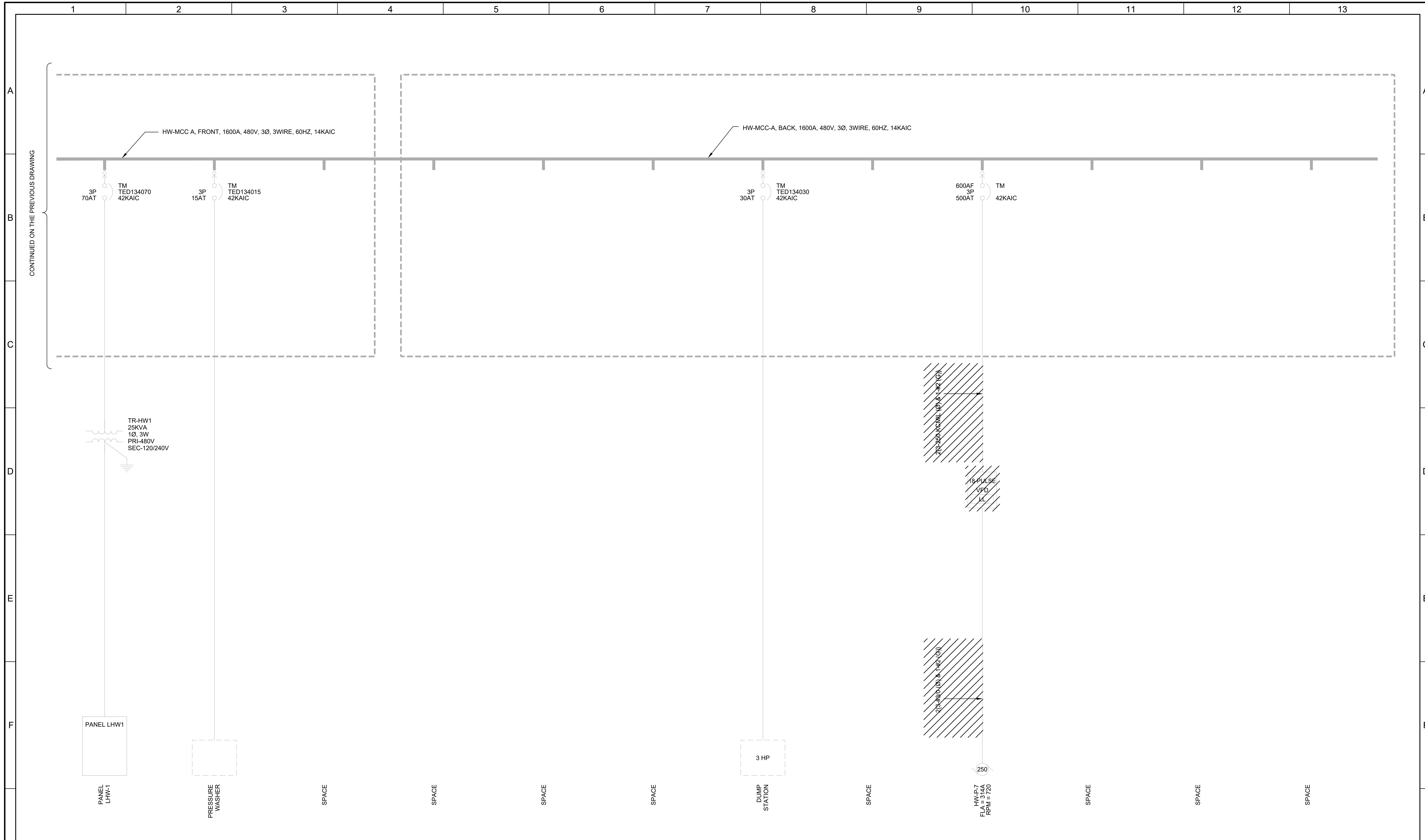


REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. CARVALHO
No. 366286
STATE OF UTAH



SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

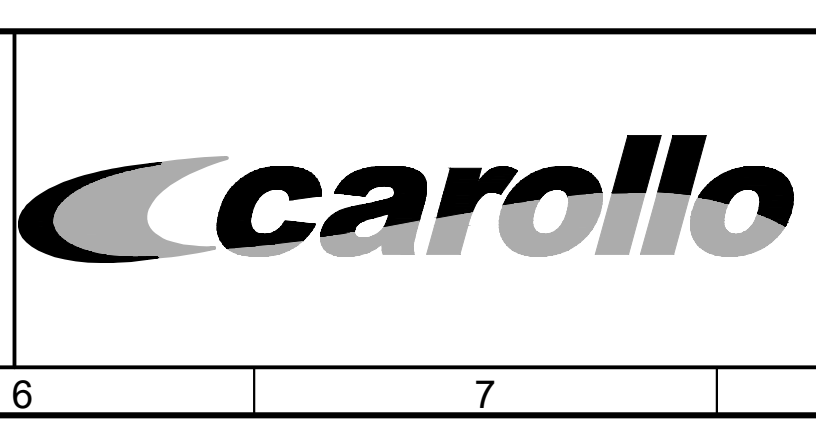
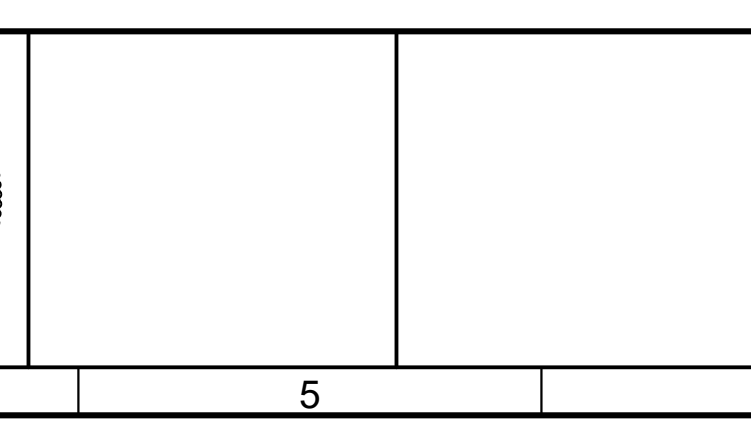
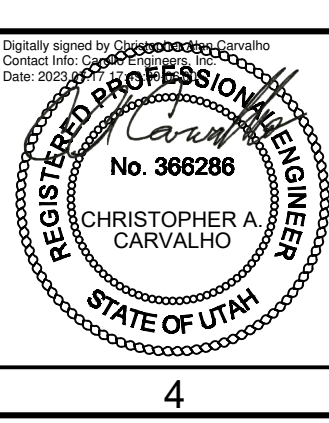
SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-HW-06
ELECTRICAL		0 1"	SHEET NO.
HW-MCC-A		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	20 OF 116
DEMOLITION ONE-LINE DIAGRAM - 1			



CONTINUED ON THE PREVIOUS DRAWING

REV	DATE	BY	DESCRIPTION

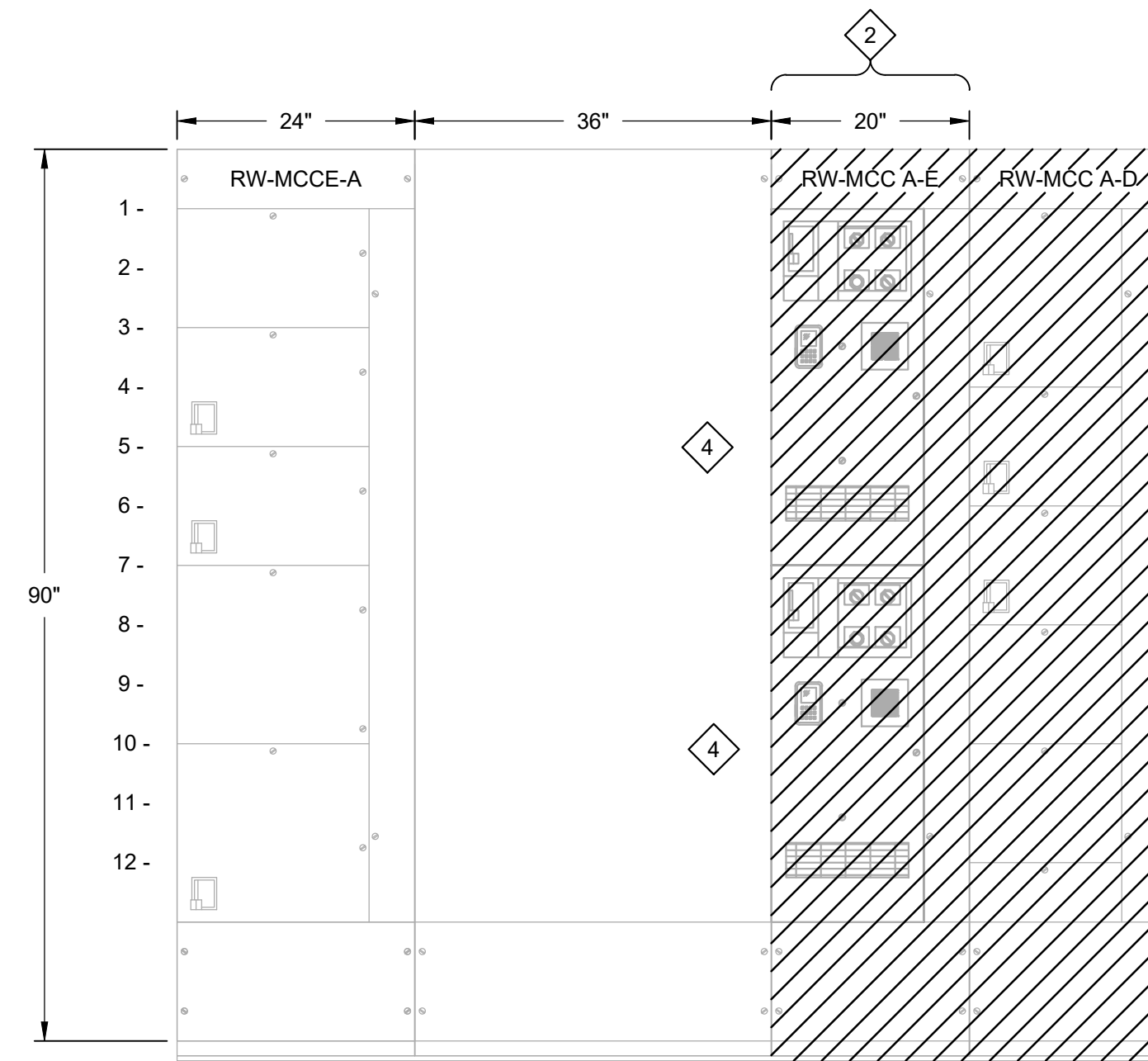
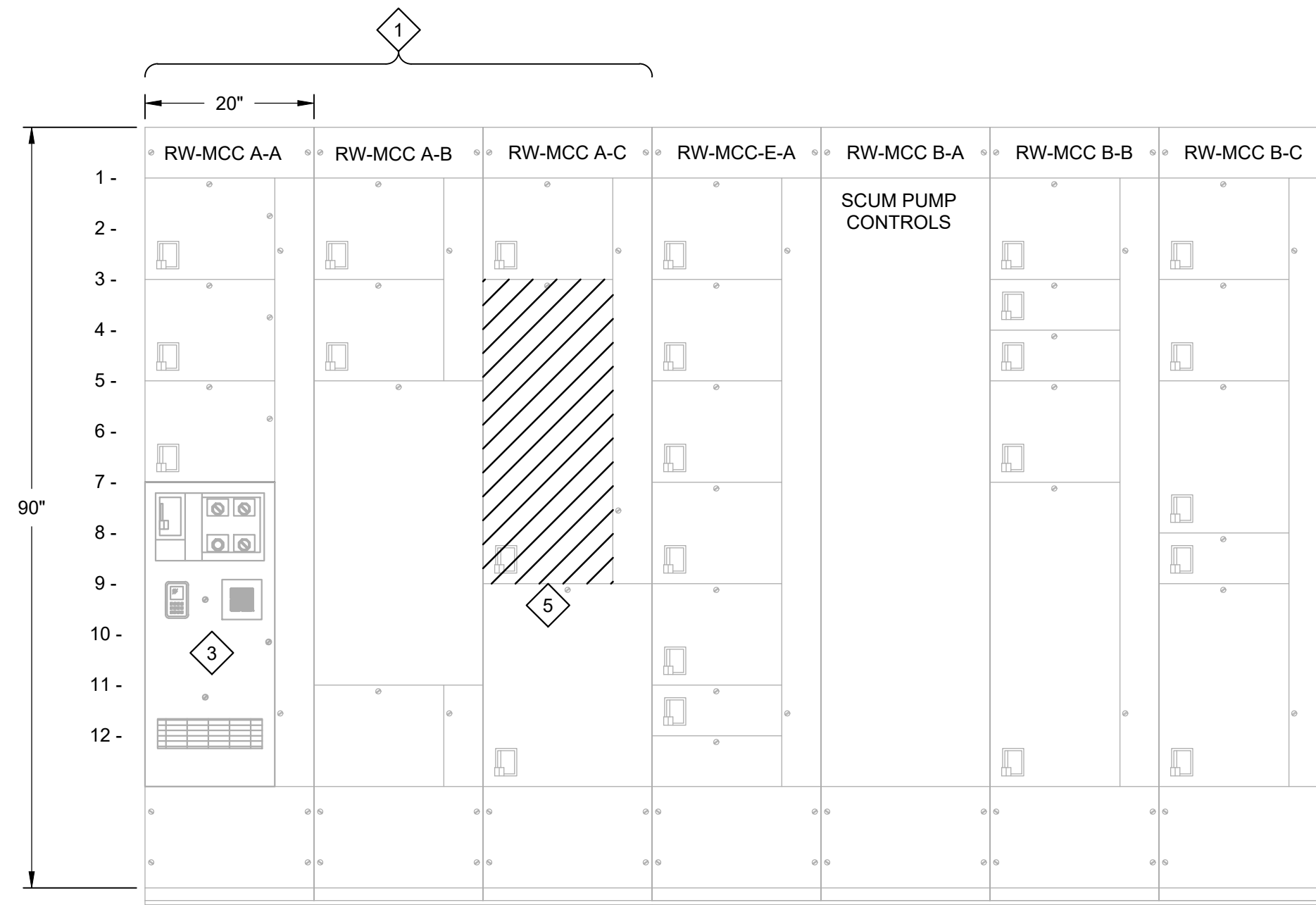
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DATE JULY 2023



SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
HW-MCC-A
DEMOLITION ONE-LINE DIAGRAM - 2

VERIFY SCALES	JOB NO. 201238
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-HW-07
0 1" SCALE BAR	SHEET NO. 21 OF 116
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

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- # KEY NOTES:
- RW-MCC-A SECTION A-C GE SERIES 8000 CAT #0484X0418M06 DIAGRAM #234B9647 NEMA CLASS II, TYPE B, ENCL. 12 480V, 3Ø, 3W, 60HZ 600 AMP MAIN BUS COPPER, SILVER PLATED 300 AMP GROUND BUS COPPER, SILVER PLATED 42,000 AMP SYMMETRICAL BUS BRACING 14,000 AMP SYMMETRICAL MCC SHORT CIRCUIT RATING
 - RW-MCC-A SECTION-E GE SERIES 8000 CAT #0513X0068L01 DIAGRAM # 241B5610 NEMA CLASS I, TYPE B, ENCL. 12 480V, 3Ø, 3W, 60HZ 600 AMP MAIN BUS COPPER, SILVER PLATED 300 AMP GROUND BUS COPPER, SILVER PLATED
 - EXISTING VFD TO BE ABANDONED IN PLACE.
 - SALVAGE THE VFDS TO THE OWNER.
 - SALVAGE THE STARTER TO THE OWNER.

**RW-MCC A ELEVATION
RAS BUILDING NO. 1**

- | | | |
|---------------------------------------|-------------------------------------|---------------------------------------|
| 300A VERT. BUS | 300A VERT. BUS | 600A VERT. BUS |
| A1 - FAN
RW-F-1 | B1 - SCUM PUMP
RW-MX-1 | C1 - RAS PUMP
PMP-1403 |
| A3 - SCUM PUMP
RW-P-10 | B3 - AUTO TRANSFER SWITCH
FEEDER | C3 - RAS PUMP
PMP-1402 |
| A5 - SCUM PUMP
RW-P-11 | B5 - AUTO TRANSFER SWITCH
RW-ATS | C9 - MAIN FROM
SUBSTATION
ES3-2 |
| A7 - WAS PUMP
PMP-1603 | B11 - FROM SG-EDB-5 | |

- | | |
|---------------------------------------|---------------------------------------|
| E1 - WAS PUMP
PMP-1601 | D1 - SPACE |
| E3 - WAS PUMP
PMP-1602 | D4 - RAS PUMP
PMP-1401 |
| | D6 - EDV-1610 |
| | D8 - SPACE |
| | D10 - SPACE |
| | D12 - INCOMING LINE |

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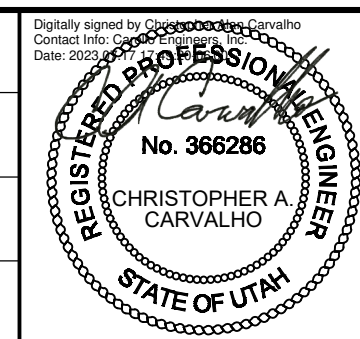
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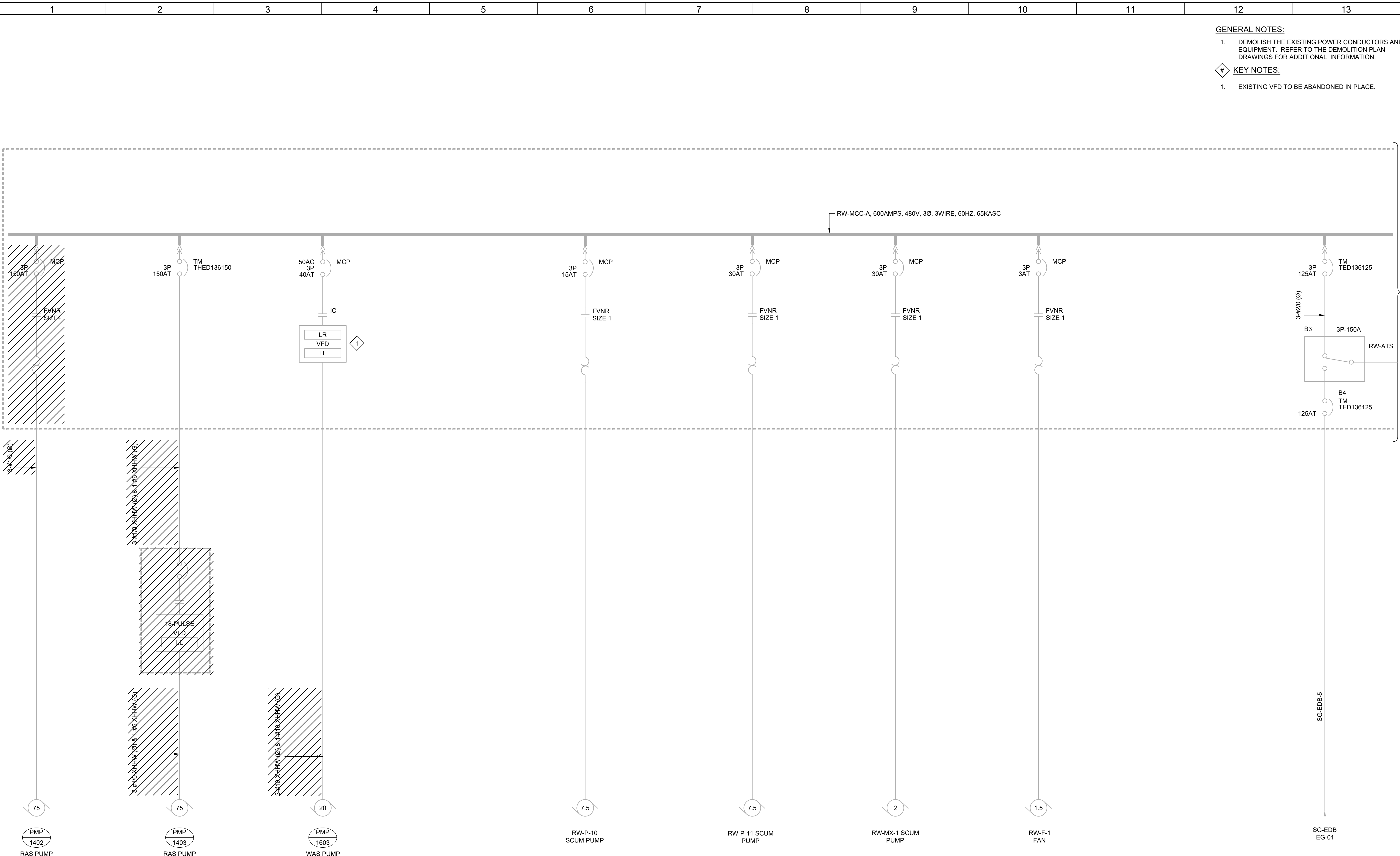
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SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
ELECTRICAL		0 1"	D-OL-RW-01
RW-MCC-A DEMOLITION ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 22 OF 116

- GENERAL NOTES:**
- DEMOLISH THE EXISTING POWER CONDUCTORS AND EQUIPMENT. REFER TO THE DEMOLITION PLAN DRAWINGS FOR ADDITIONAL INFORMATION.
- KEY NOTES:**
- EXISTING VFD TO BE ABANDONED IN PLACE.



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REV	DATE	BY	DESCRIPTION

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JULY 2023

State of Utah
REGISTERED PROFESSIONAL ENGINEER
No. 366286
CHRISTOPHER A. CARVALHO



SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
RW-MCC-A
DEMOLITION ONE-LINE DIAGRAM - 1

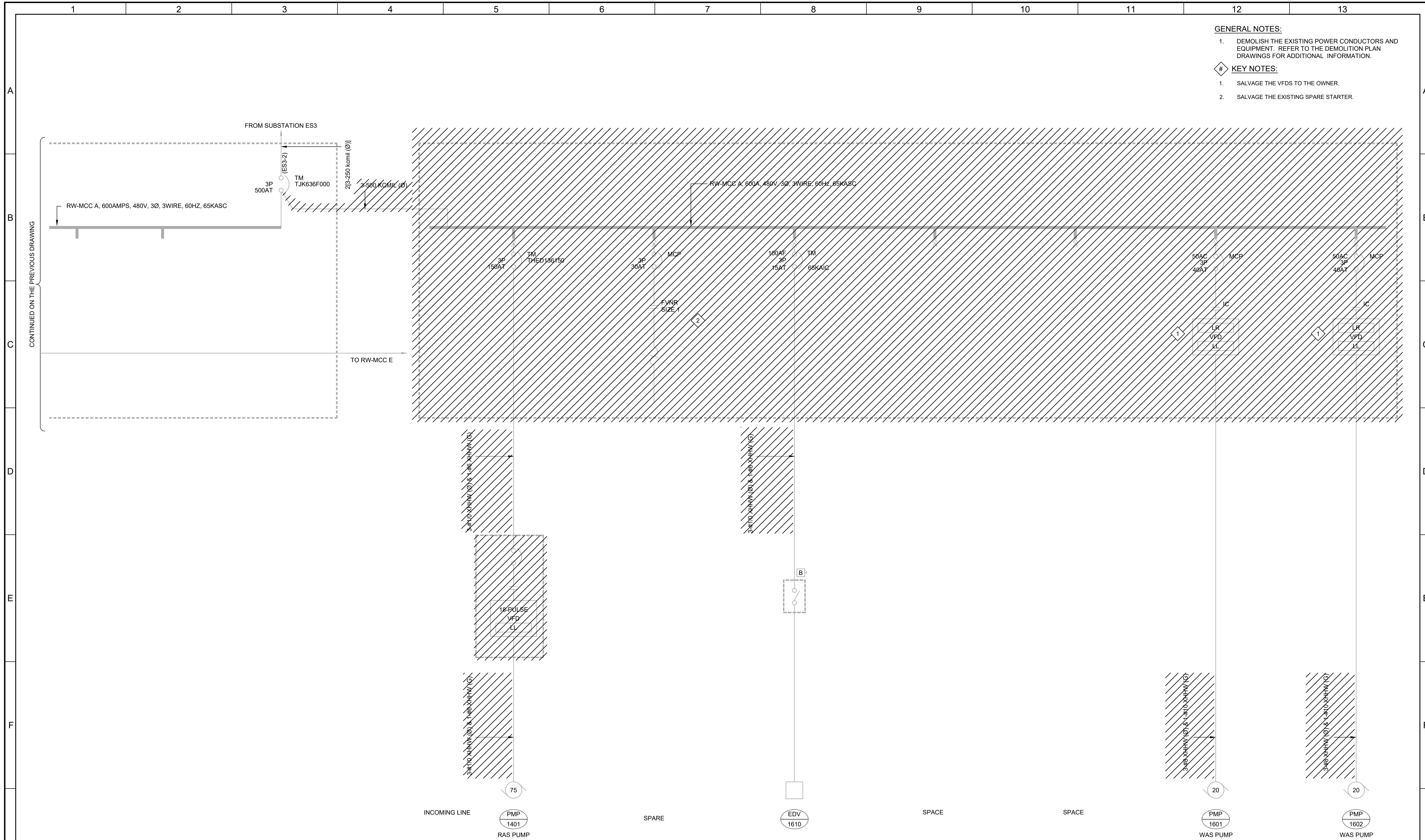
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
201238

DRAWING NO.
D-OL-RW-02

SHEET NO.
23 OF 116

- GENERAL NOTES:**
- DEMOLISH THE EXISTING POWER CONDUCTORS AND EQUIPMENT. REFER TO THE DEMOLITION PLAN DRAWINGS FOR ADDITIONAL INFORMATION.
- KEY NOTES:**
- SALVAGE THE VFDS TO THE OWNER.
 - SALVAGE THE EXISTING SPARE STARTER.



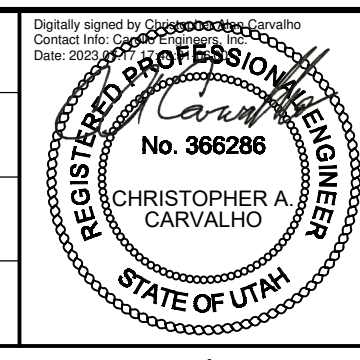
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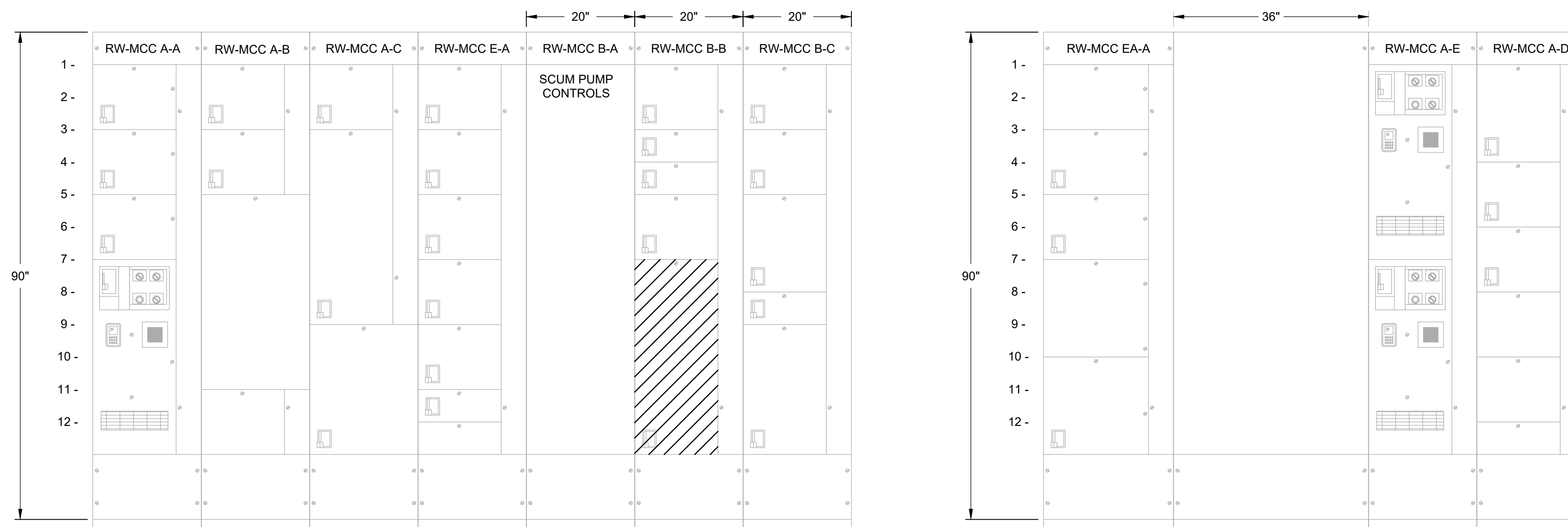
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WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
ELECTRICAL		0 1"	D-OL-RW-03
RW-MCC-A		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
DEMOLITION ONE-LINE DIAGRAM - 2			24 OF 116

LAST SAVED BY: bsteward

GENERAL NOTES:

- RW-MCC-B GE SERIES 8000 CAT #484X0418M08 DIAGRAM #234B9647
NEMA CLASS II, TYPE B, ELCL. 12 480V, 3Ø, 3W, 60HZ, 600 AMP MAIN BUS.



**RW-MCC B ELEVATION
RAS BUILDING NO. 1**

- | | |
|---------------------------------|----------------------------|
| B1 - PMP-1406
RAS PUMP | C1 - RW-MX-2
SCUM MIXER |
| B3 - RW-ME-1
FURNACE AND FAN | C3 - RW-MX-4
CONDENSER |
| B4 - OVERHEAD DOOR | C5 - RW-ME-5
CONDENSER |
| B5 - PMP-1404
RAS PUMP | C8 - RW-F-2
A/C FAN |
| B7 - PMP-1405
RAS PUMP | C9 - MAIN FROM ES-3 |

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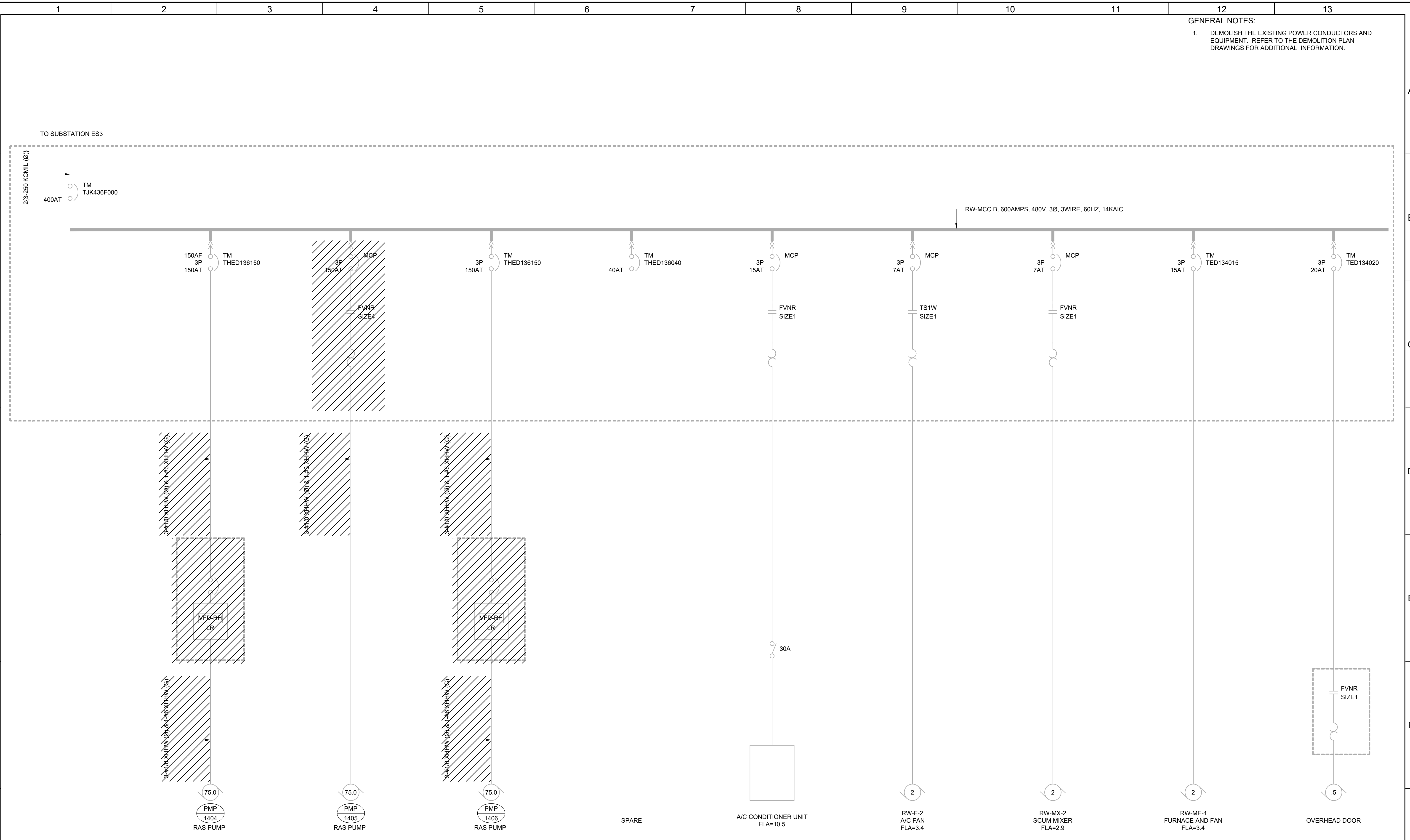
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DATE JULY 2023



SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-RW-04
ELECTRICAL		0 1"	SHEET NO.
RW-MCC-B DEMOLITION ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	25 OF 116

GENERAL NOTES:
 1. DEMOLISH THE EXISTING POWER CONDUCTORS AND EQUIPMENT. REFER TO THE DEMOLITION PLAN DRAWINGS FOR ADDITIONAL INFORMATION.



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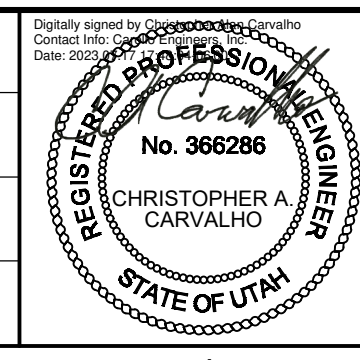
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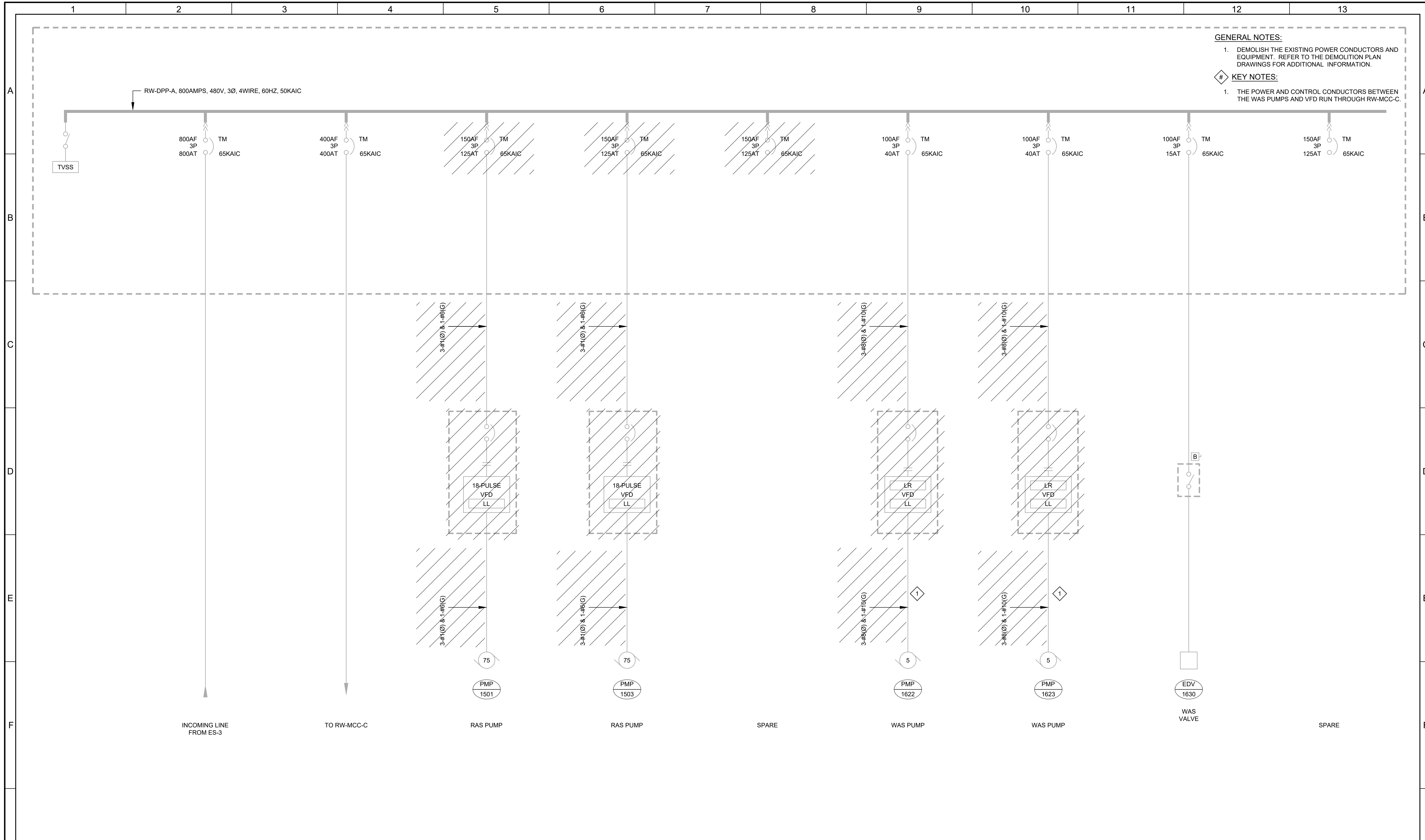
SOUTH VALLEY WATER RECLAMATION
 2023 VFD REPLACEMENT
 ELECTRICAL
RW-MCC-B
 DEMOLITION ONE-LINE DIAGRAM

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
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JOB NO.
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DRAWING NO.
D-OL-RW-05

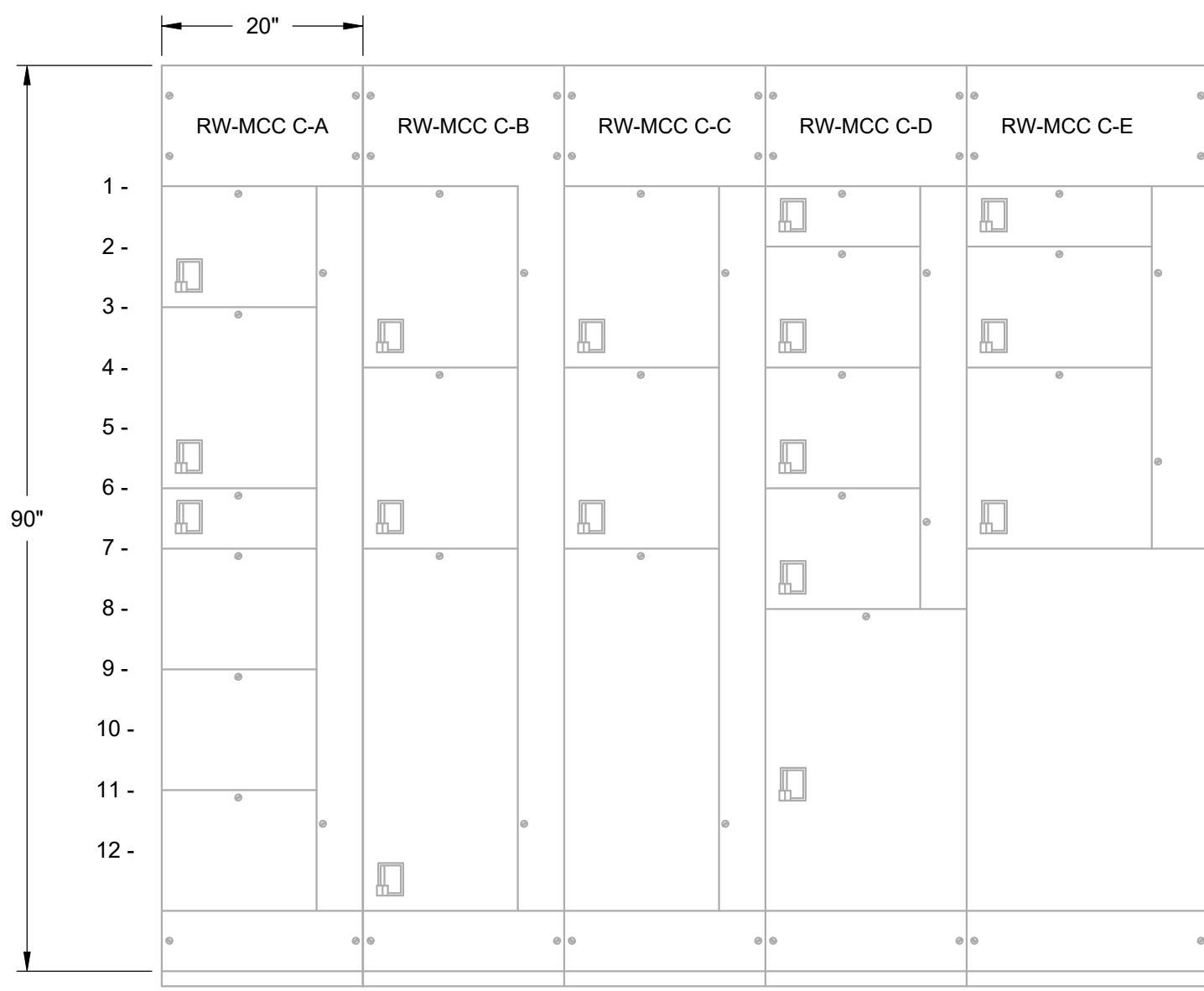
SHEET NO.
26 OF 116



GENERAL NOTES:
 1. DEMOLISH THE EXISTING POWER CONDUCTORS AND EQUIPMENT. REFER TO THE DEMOLITION PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

KEY NOTES:
 1. THE POWER AND CONTROL CONDUCTORS BETWEEN THE WAS PUMPS AND VFD RUN THROUGH RW-MCC-C.

LAST SAVED BY: bstepard REV DATE BY DESCRIPTION	DESIGNED: CAC DRAWN: BLS CHECKED: CLL DATE: JULY 2023			 7495 South 1300 West West Jordan, Utah 84084	SOUTH VALLEY WATER RECLAMATION 2023 VFD REPLACEMENT ELECTRICAL RW-DPP-A DEMOLITION ONE-LINE DIAGRAM	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238 DRAWING NO. D-OL-RW-06 SHEET NO. 27 OF 116
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- GENERAL NOTES:**
- GE 8000 LINE MOTOR CONTROL CENTER NO. H492193
- KEY NOTES:**
- PROVIDE A NEW "SPARE" NAMEPLATE.
 - PROVIDE A NEW "SPARE" NAMEPLATE FOR PREVIOUSLY DEMOLISHED PUMPS.

**RW-MCC-C ELEVATION
RAS BUILDING NO. 2**

- | | | | | |
|------------------------------------|-----------------------------------|---|---------------------------------------|---------------------------------------|
| A1 - SPARE FVNR (SIZE 1, 30A, MCP) | B1 - EVAP COOLER RW-ME-105 | C1 - SPARE TM-150 AT | D1 - A/C HANDING UNIT RW-ME-109 | E1 - LIGHTING PANEL LRW-A |
| A3 - SCUM SUMP MIXER RW-MX-102 | B4 - EVAP COOLER RW-MX-104 | C4 - SPARE TM-150 AT | D2 - SPARE FVNR (SIZE 1, 30A, MCP) | E2 - NORMAL SUPPLY TO TRANSFER SWITCH |
| A6 - OVERHEAD DOOR | B7 - RAS PUMP RW-P-102 | C7 - SEAL WATER BOOSTER PUMP AUX. CONTROL | D4 - SEAL WATER BOOSTER PUMP RW-P-114 | E4 - EMERG. SUPPLY TO TRANSFER SWITCH |
| A7 - SPACE | | | D6 - SEAL WATER BOOSTER PUMP RW-P-115 | E7 - ASCO TRANSFER SWITCH |
| A9 - SPACE | | | D8 - MAIN C.B. TM-400AT | |
| A11 - SPACE | | | | |

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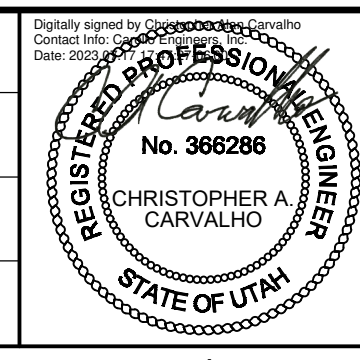
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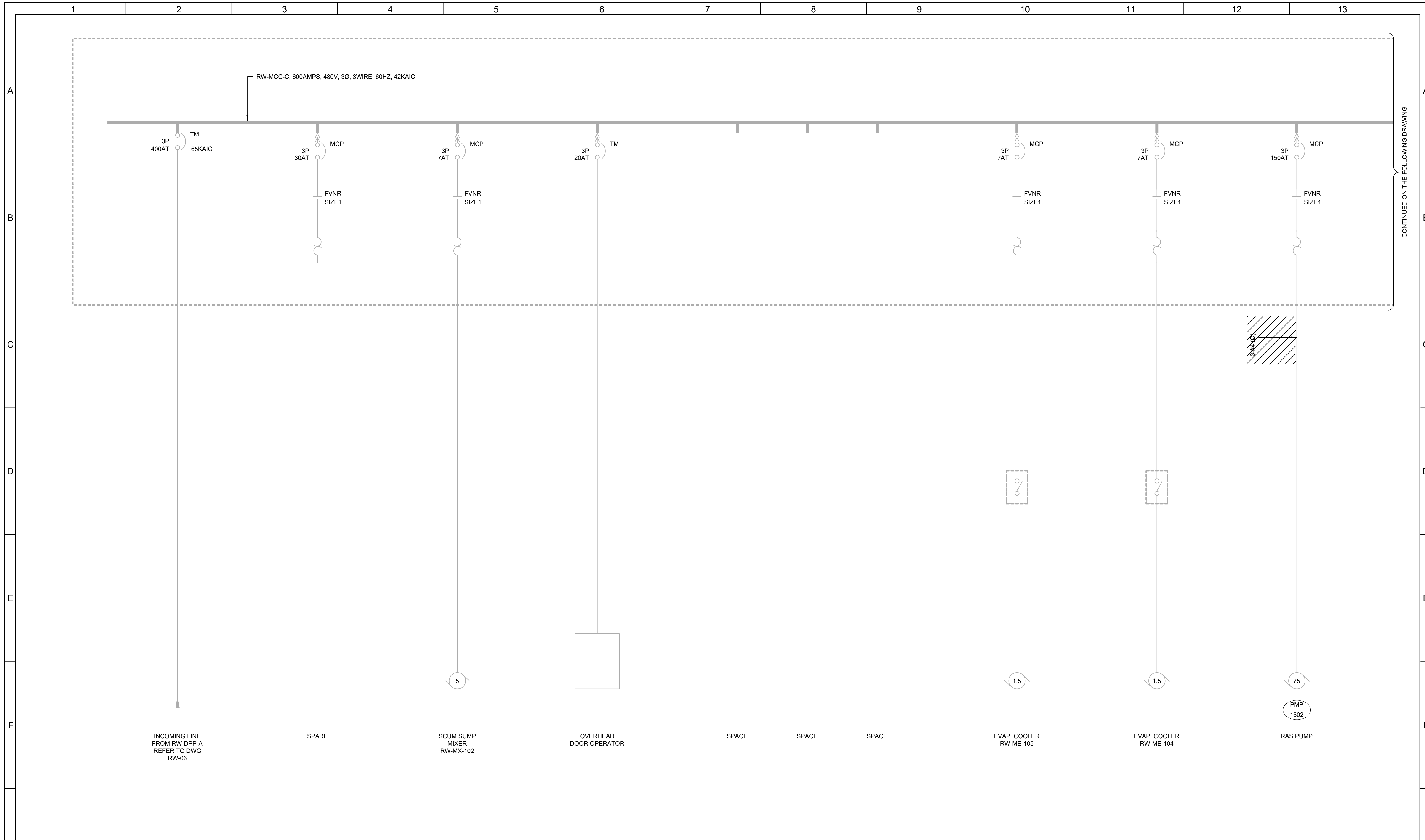
DATE
JULY 2023



SV South Valley
WATER RECLAMATION FACILITY

7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
ELECTRICAL		0 1"	D-OL-RW-07
RW-MCC-C DEMOLITION ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 28 OF 116



CONTINUED ON THE FOLLOWING DRAWING

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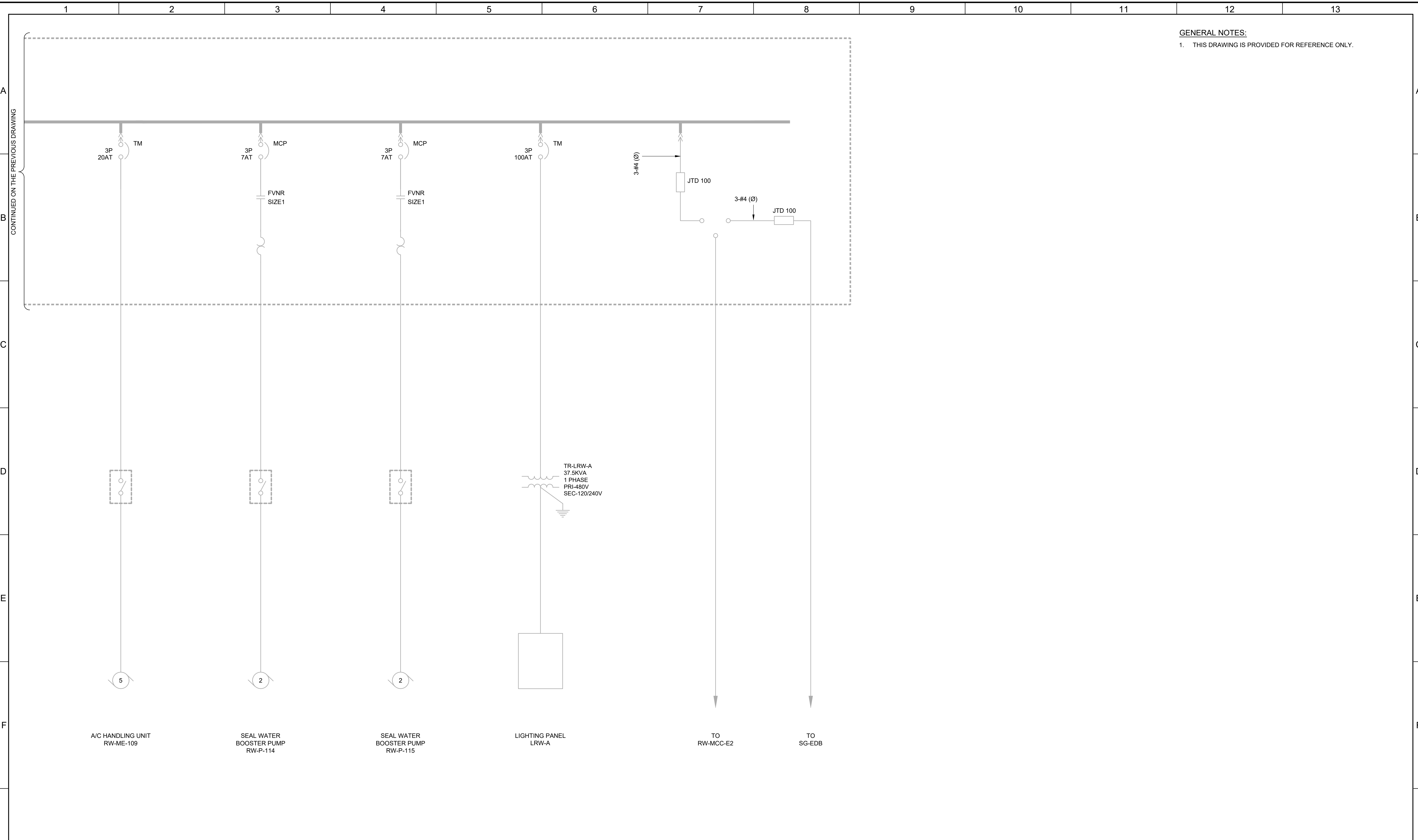
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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
RW-MCC-C DEMOLITION ONE-LINE DIAGRAM - 1

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

JOB NO.
201238
DRAWING NO.
D-OL-RW-08
SHEET NO.
29 OF 116

GENERAL NOTES:
 1. THIS DRAWING IS PROVIDED FOR REFERENCE ONLY.



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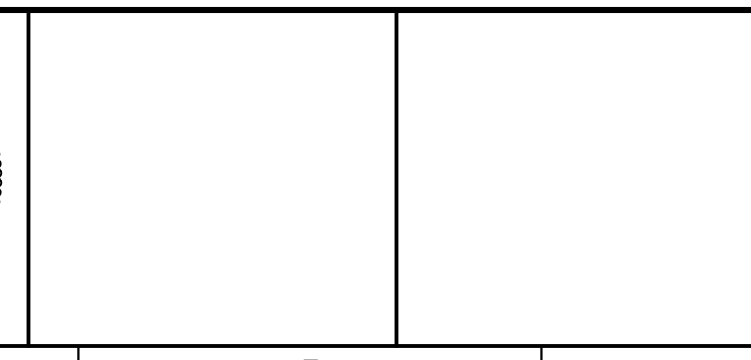
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GMG

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DATE
JULY 2023



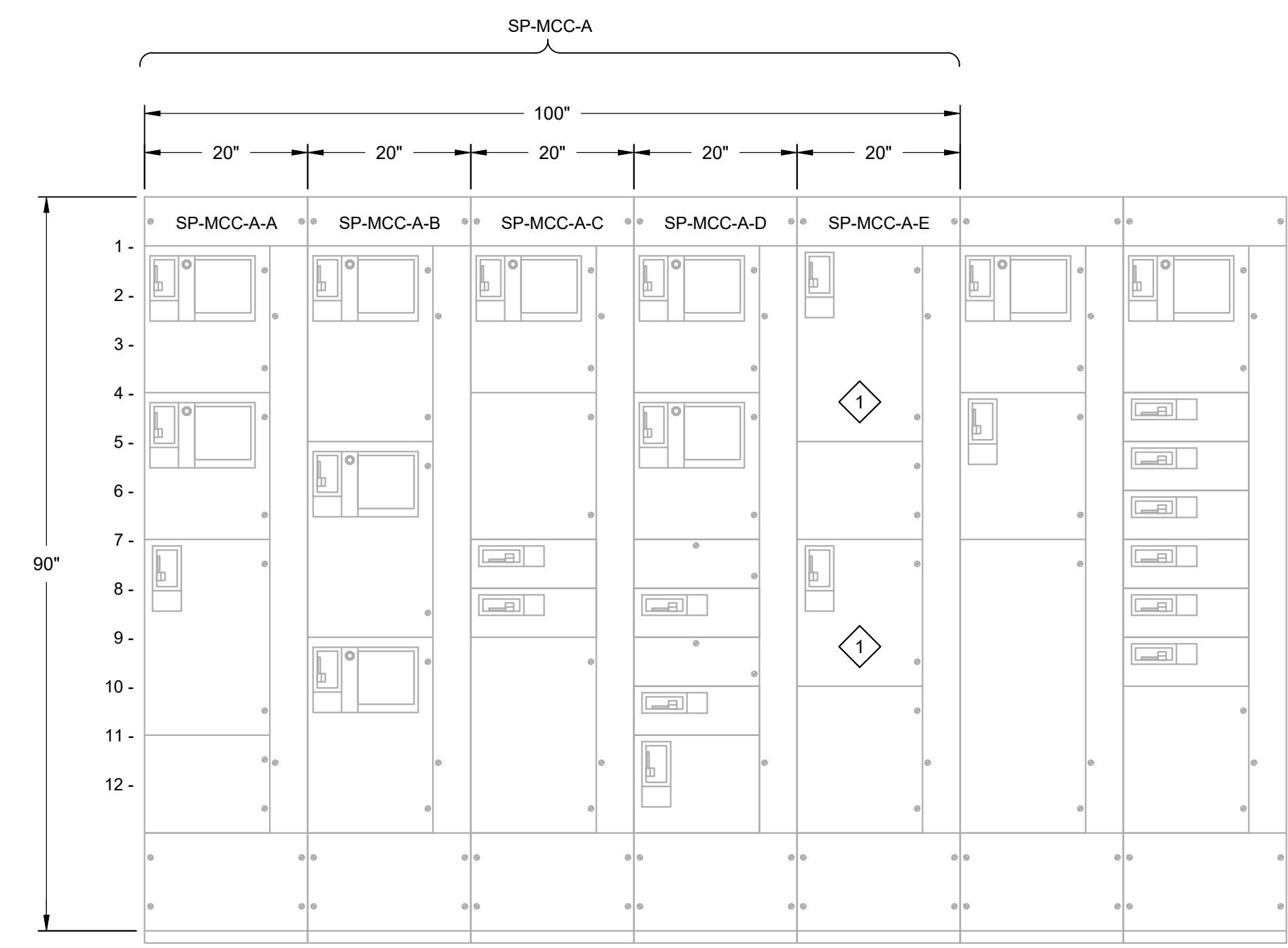
SOUTH VALLEY WATER RECLAMATION
 2023 VFD REPLACEMENT
 ELECTRICAL
 RW-MCC-C
 DEMOLITION ONE-LINE DIAGRAM - 2

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

JOB NO. 201238
 DRAWING NO. D-OL-RW-09
 SHEET NO. 30 OF 116

KEY NOTES:

1. REUSE THE EXISTING CIRCUIT BREAKERS FOR THE NEW VFDS.



- | | | | | |
|---------------------------------|--|-----------------------------------|---------------------------------|---------------------------|
| A1 - SPARE | B1 - SOLUTION POLYMER TRANSFER PUMP SP-P-4 | C1 - POLYMER TANK MIXER SP-MX-1 | D1 - POLYMER TANK MIXER SP-MX-2 | E1 - EXHAUST FAN EXF-1002 |
| A4 - SPARE | B5 - SOLUTION POLYMER TRANSFER PUMP SP-P-3 | C4 - SPACE | D4 - SLUDGE MIXER SP-ME-4 | E5 - SPACE |
| A7 - MAIN BREAKER | B9 - POLYMER RECIRCULATION PUMP PMP-2205 | C7 - BELT PRESS BEP-1732 | D7 - SPACE | E7 - SUPPLY FAN SUF-1001 |
| A11 - INCOMING POWER CONDUCTORS | | C8 - SUMP PUMPS SP-P-18 & SP-P-19 | D8 - SPARE | E10 - SPACE |
| | | C9 - SPACE | D9 - SPACE | |
| | | | D10 - SPARE | |
| | | | D11 - SP-MCC-E TRANSFER SWITCH | |

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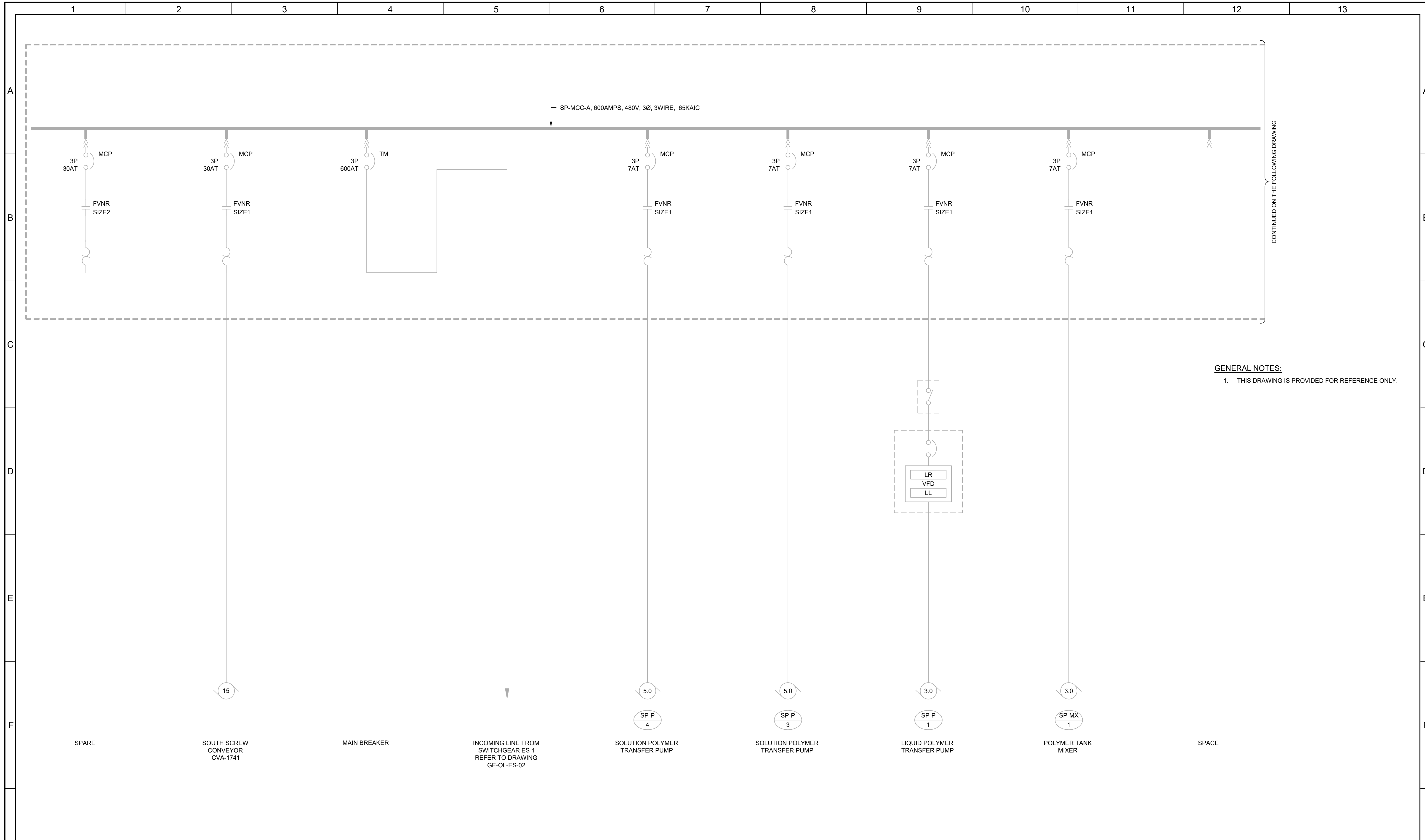
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West Jordan, Utah 84084

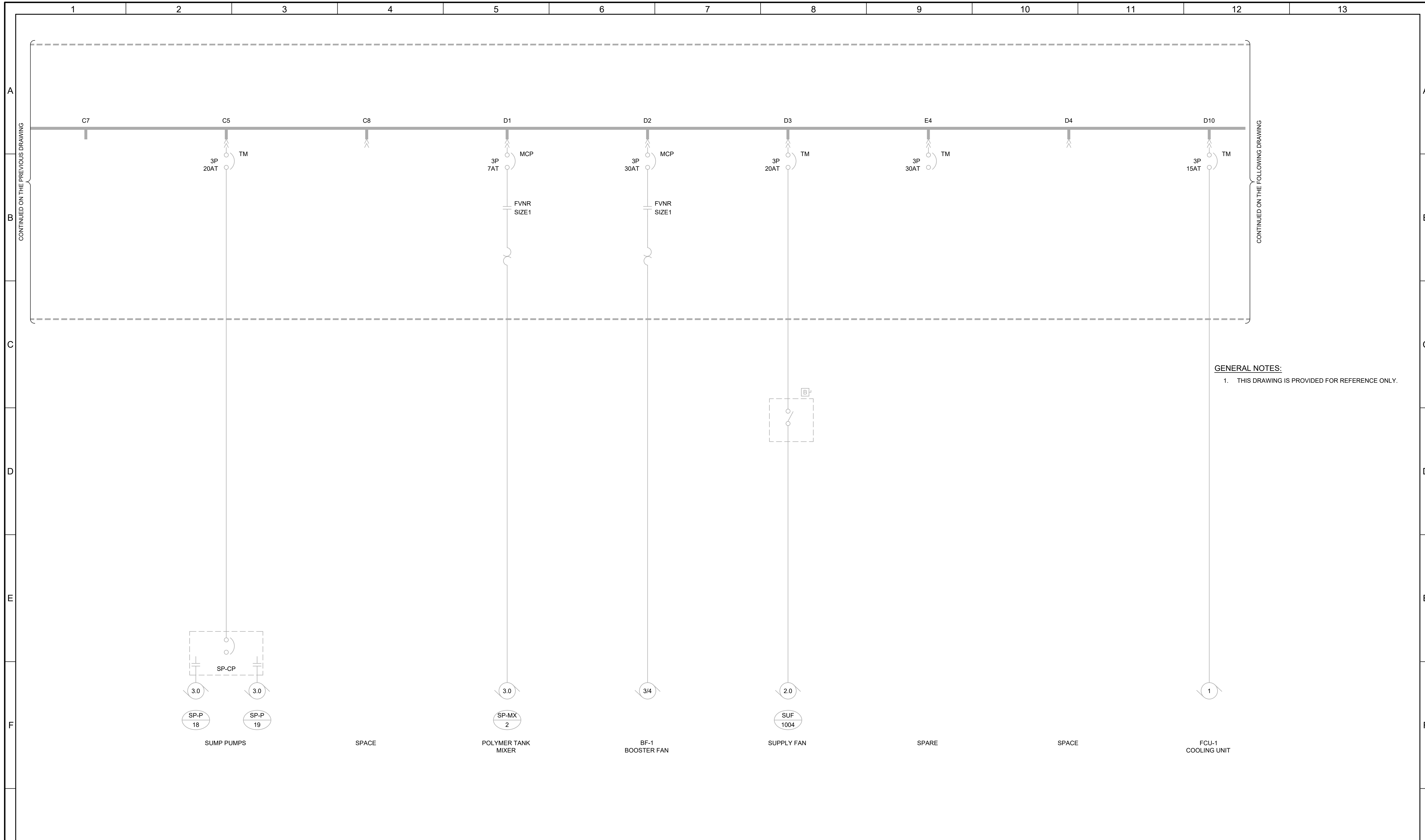
SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. D-OL-SP-01
ELECTRICAL		0 1"	SHEET NO. 31 OF 116
SP-MCC-A DEMOLITION ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



GENERAL NOTES:
 1. THIS DRAWING IS PROVIDED FOR REFERENCE ONLY.

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REV	DATE	BY	DESCRIPTION																

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JULY 2023

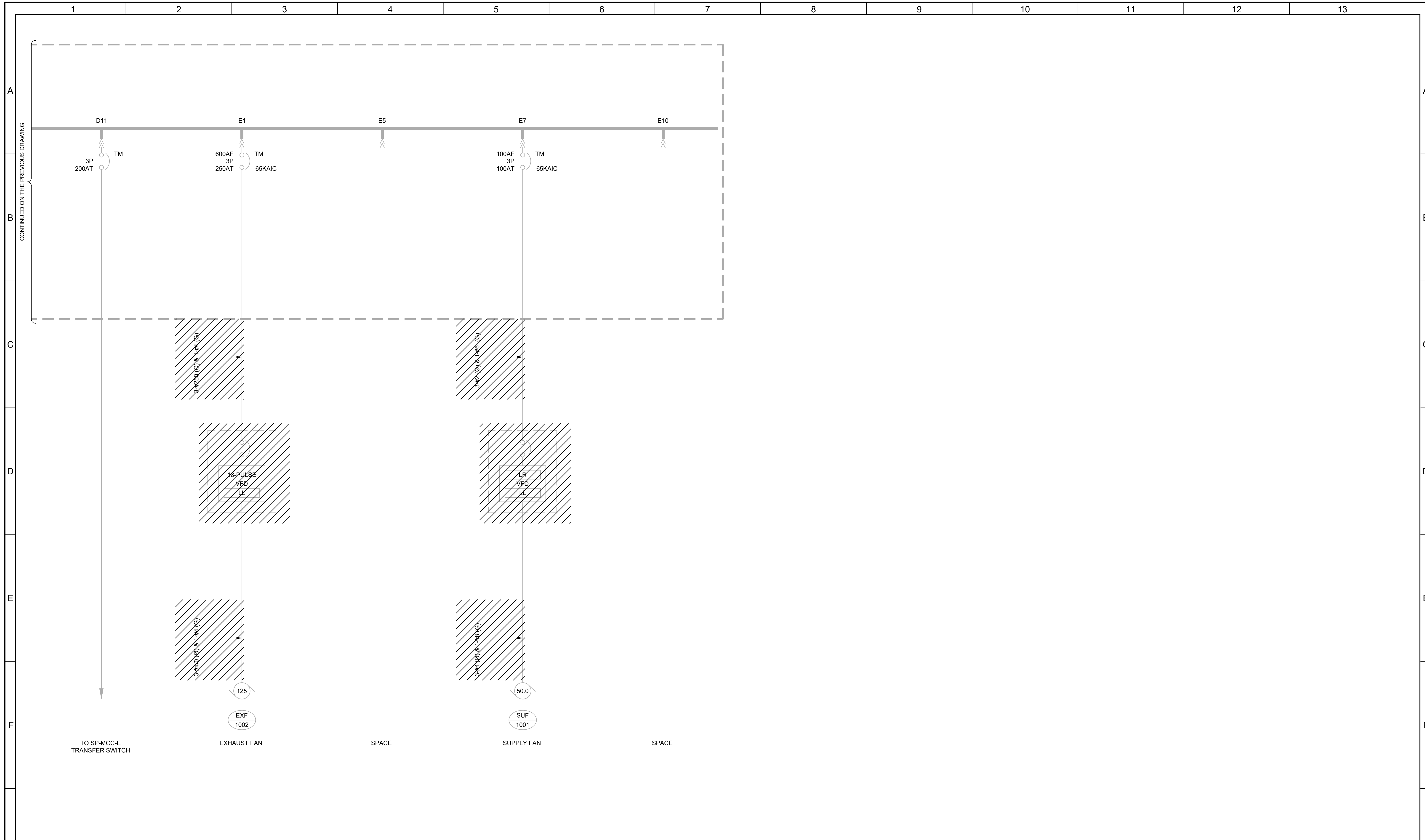


SOUTH VALLEY WATER RECLAMATION
 2023 VFD REPLACEMENT
 ELECTRICAL
SP-MCC-A
 DEMOLITION ONE-LINE DIAGRAM - 2

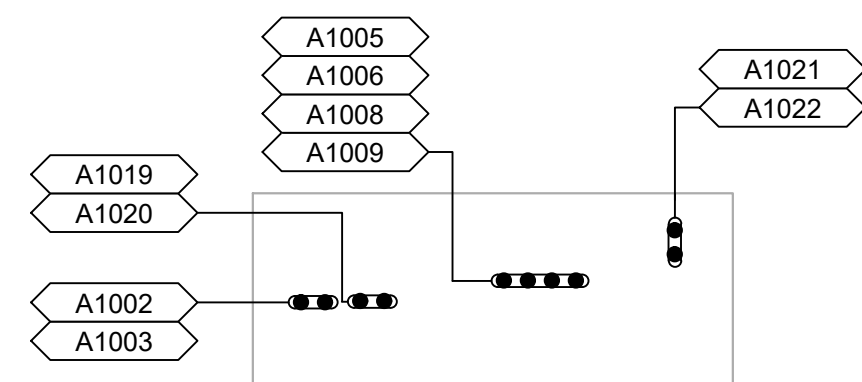
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 201238
 DRAWING NO. **D-OL-SP-03**
 SHEET NO. 33 OF 116

LAST SAVED BY: tncrablio



LAST SAVED BY: tncrablio	DESIGNED CAC DRAWN BLS CHECKED CLL DATE JULY 2023	Digitally signed by Christopher A. Carvalho Contact info: D:\www\carvalho.com No. 366286 CHRISTOPHER A. CARVALHO REGISTERED PROFESSIONAL ENGINEER STATE OF UTAH			SOUTH VALLEY WATER RECLAMATION 2023 VFD REPLACEMENT ELECTRICAL SP-MCC-A DEMOLITION ONE-LINE DIAGRAM - 3	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238 DRAWING NO. D-OL-SP-04 SHEET NO. 34 OF 116																				
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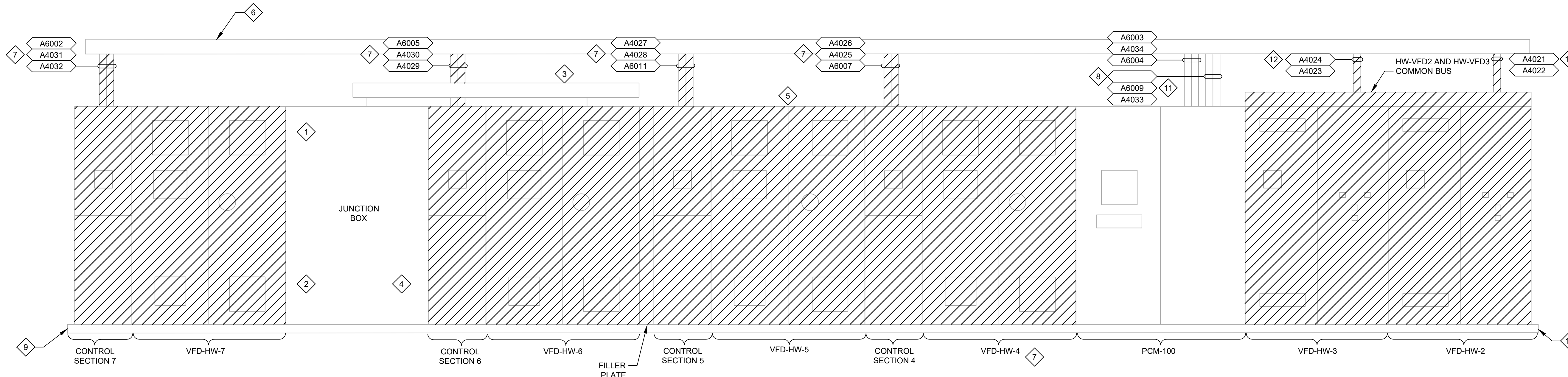


JUNCTION BOX FLOOR PLAN

SCALE: 1/2" = 1'-0"
FILE: 01-089-901.dwg



1 PHOTO
SCALE: NO SCALE
FILE: 01-89-901 PHOTO 1



EXISTING VFD LINEUP ELEVATION

SCALE: 1/2" = 1'-0"
FILE: 01-089-901.dwg

GENERAL NOTES

- REFER TO SECTION 01030 SPECIAL PROJECT CONSTRAINTS FOR CONSTRUCTION SEQUENCING.
- HW-MCC-B POWERS VFD-2, VFD-3, AND VFD-5.
- HW-MCC-A POWERS VFD-4, VFD-6, AND VFD-7.
- SALVAGE ALL PLC HARDWARE AND HMI UNITS FROM THE CONTROL SECTIONS TO THE OWNER.
- PROVIDE TEMPORARY SUPPORTS FOR ALL WIREWAY AND CONDUITS AS REQUIRED DURING CONSTRUCTION.
- COVER ALL OPENINGS IN THE WIREWAYS, JUNCTION BOXES, OR MOTOR CONTROL CENTERS THAT RESULT FROM THE REMOVAL OF ANY EXISTING CONDUITS.

KEY NOTES

- THE POWER TO VFD-7 ENTERS THROUGH THE SIDE OF THE VFD.
- THE POWER FROM VFD-7 TO HW-P-7 EXITS THROUGH THE SIDE OF THE VFD.
- 6" X 6" WIREWAY WITH POWER CONDUCTORS TO VFD-6
- THE POWER CONDUCTORS FROM VFD-6 TO HW-P-6 PASS THROUGH THE CONTROL SECTION AND THE SIDE OF THE VFD.
- THE VFD-5 POWER CONDUCTORS IN CONDUITS A1025 AND A1026 CONTINUE THROUGH A SHORT SECTION OF WIREWAY AND THEN CONDUIT NIPPLES INTO HW-MCC-B. SEE DRAWING D-01-03.
- 6"X6" WIREWAY WITH DIVIDERS BETWEEN NETWORK, ANALOG AND CONTROL SECTIONS.
- PULL BACK AND PROTECT THE EXISTING ANALOG AND CONTROL WIRING. DEMOLISH THE EXISTING NETWORK CABLES.
- THE UNTAGGED CONDUITS ARE NOT SCHEDULED. FIELD INVESTIGATE CONTENTS AS REQUIRED. VERIFY THE ORDER OF THE CONDUITS.
- DEMOLISH THE EXISTING HOUSEKEEPING PAD SO IT EXTENDS PASSED THE REVISED EQUIPMENT LINEUP 3" TO THE EAST. RELOCATE THE BARRIER AND PATCH THE HOLES IN THE FLOOR.
- DEMOLISH THE HOUSEKEEPING PAD TO MATCH THE NEW VFDS. REFER TO D-1E-03 FOR ADDITIONAL DETAILS.
- FIBER OPTIC NETWORK MUST REMAIN IN SERVICE.
- DEMOLISH ALL POWER, CONTROL AND SIGNAL CONDUCTORS ASSOCIATED WITH HW-VFD-2 AND HW-VFD-3.

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JULY 2023

REGISTERED PROFESSIONAL ENGINEER
No. 366286
CHRISTOPHER A. CARVALHO
STATE OF UTAH

carollo

SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
HEADWORKS PUMP STATION
EXISTING VFD LINEUP DEMOLITION

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

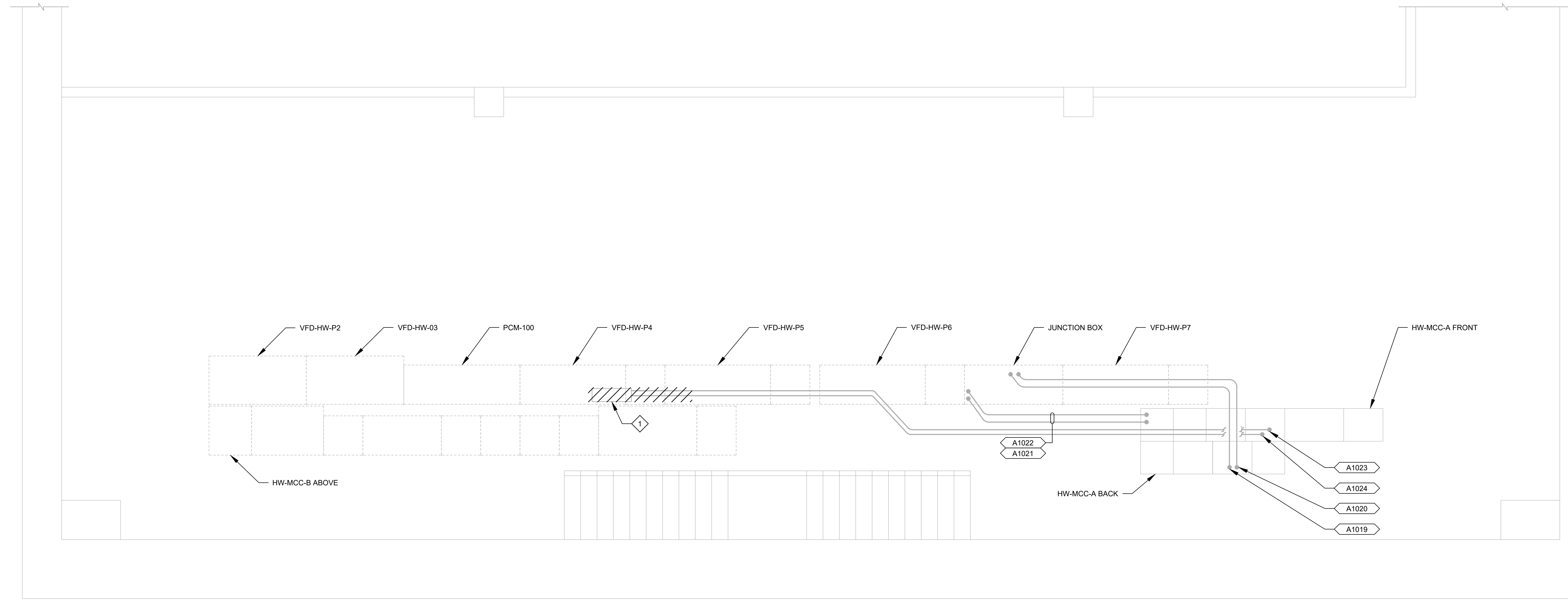
JOB NO.
201238

DRAWING NO.
D-1E-01

SHEET NO.
35 OF 116



- GENERAL NOTES:**
1. THE LOCATION AND ROUTING OF THE CONDUITS IS APPROXIMATE. FIELD VERIFY AS REQUIRED.
- KEY NOTES:**
1. DEMOLISH EXISTING JUNCTION BOX. PARTIALLY DELETE THE CONDUITS TO ALLOW THEM TO BE ROUTED TO THE NEW HW-VFD-4 LOCATION.



PLAN (AT CEILING)
 SCALE: 3/8" = 1'-0"
 FILE: 01-089-905.dwg

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 7495 South 1300 West
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
 2023 VFD REPLACEMENT
 ELECTRICAL
HEADWORKS PUMP STATION EL. 74.5'
DEMOLITION PLAN

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

JOB NO.
201238

DRAWING NO.
D-1E-02

SHEET NO.
36 OF 116

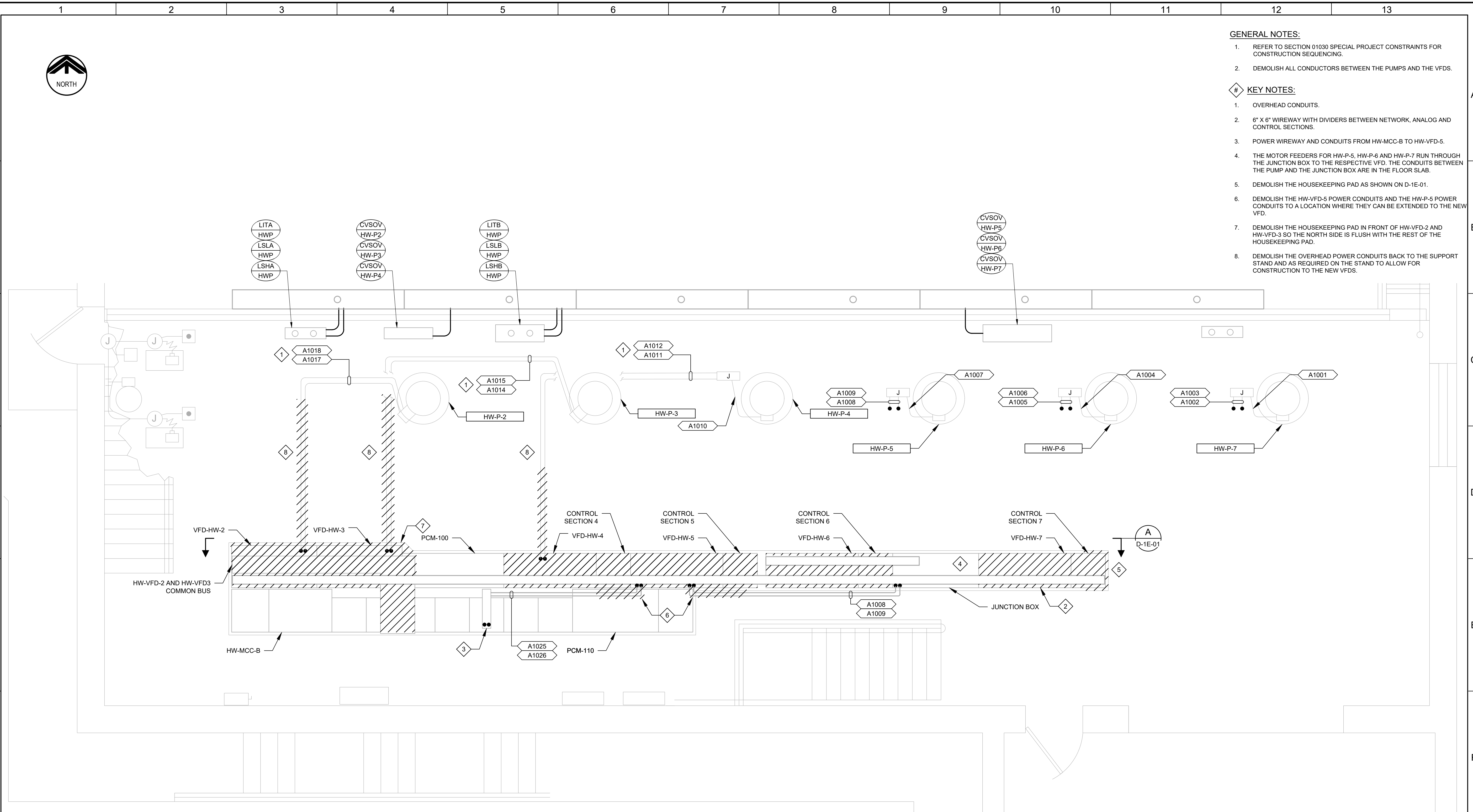


GENERAL NOTES:

1. REFER TO SECTION 01030 SPECIAL PROJECT CONSTRAINTS FOR CONSTRUCTION SEQUENCING.
2. DEMOLISH ALL CONDUCTORS BETWEEN THE PUMPS AND THE VFDS.

KEY NOTES:

1. OVERHEAD CONDUITS.
2. 6" X 6" WIREWAY WITH DIVIDERS BETWEEN NETWORK, ANALOG AND CONTROL SECTIONS.
3. POWER WIREWAY AND CONDUITS FROM HW-MCC-B TO HW-VFD-5.
4. THE MOTOR FEEDERS FOR HW-P-5, HW-P-6 AND HW-P-7 RUN THROUGH THE JUNCTION BOX TO THE RESPECTIVE VFD. THE CONDUITS BETWEEN THE PUMP AND THE JUNCTION BOX ARE IN THE FLOOR SLAB.
5. DEMOLISH THE HOUSEKEEPING PAD AS SHOWN ON D-1E-01.
6. DEMOLISH THE HW-VFD-5 POWER CONDUITS AND THE HW-P-5 POWER CONDUITS TO A LOCATION WHERE THEY CAN BE EXTENDED TO THE NEW VFD.
7. DEMOLISH THE HOUSEKEEPING PAD IN FRONT OF HW-VFD-2 AND HW-VFD-3 SO THE NORTH SIDE IS FLUSH WITH THE REST OF THE HOUSEKEEPING PAD.
8. DEMOLISH THE OVERHEAD POWER CONDUITS BACK TO THE SUPPORT STAND AND AS REQUIRED ON THE STAND TO ALLOW FOR CONSTRUCTION TO THE NEW VFDS.

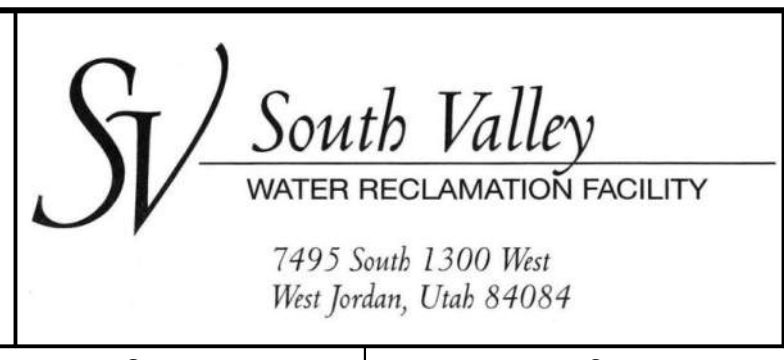
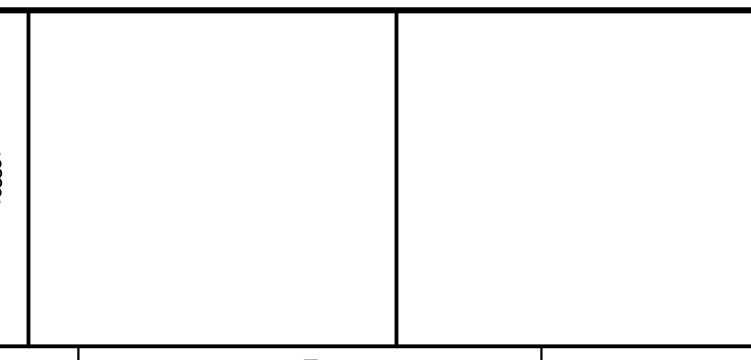


PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 01-89-904.dwg

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SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
HEADWORKS PUMP STATION EL. 87.0'
DEMOLITION PLAN

VERIFY SCALES
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JOB NO.
201238
 DRAWING NO.
D-1E-03
 SHEET NO.
37 OF 116