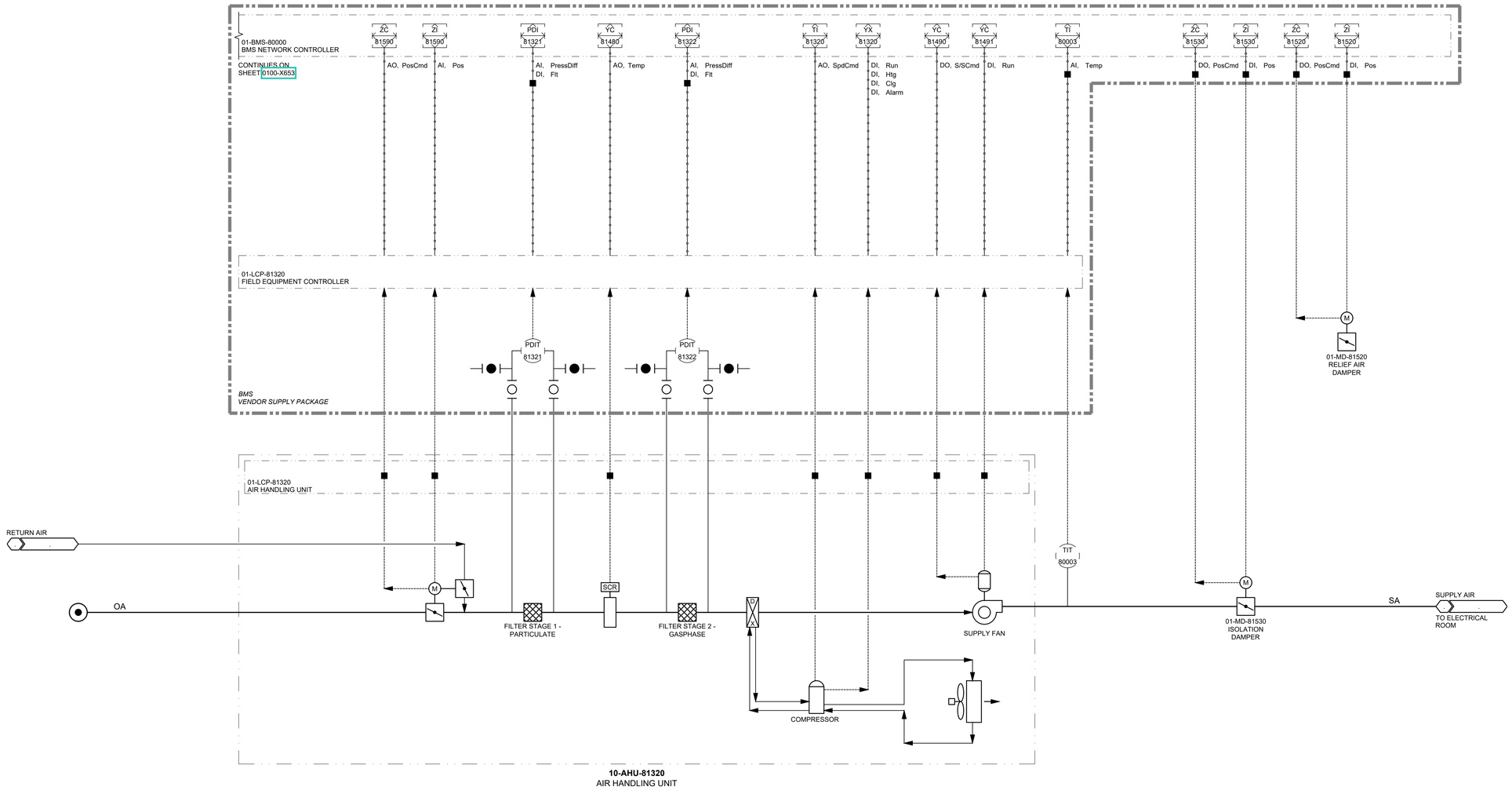


UNIT ID: 10-AHU-81320
UNIT NAME: AIR HANDLING UNIT
SPEC: 23 74 16 11
REF DWG #: 0104-M101 & 0104-M102

GENERAL NOTES

1. REFER TO DRAWING 0000-X650S, GENERAL BMS NETWORK P&ID, FOR SCADA POINTS REQUIRED TO INTERFACE WITH THE BMS NETWORK.

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.WATSON
DRAWN BY: S.GALBICHKA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MM	BW

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

10-AHU-81320
CONTROL SCHEMATIC

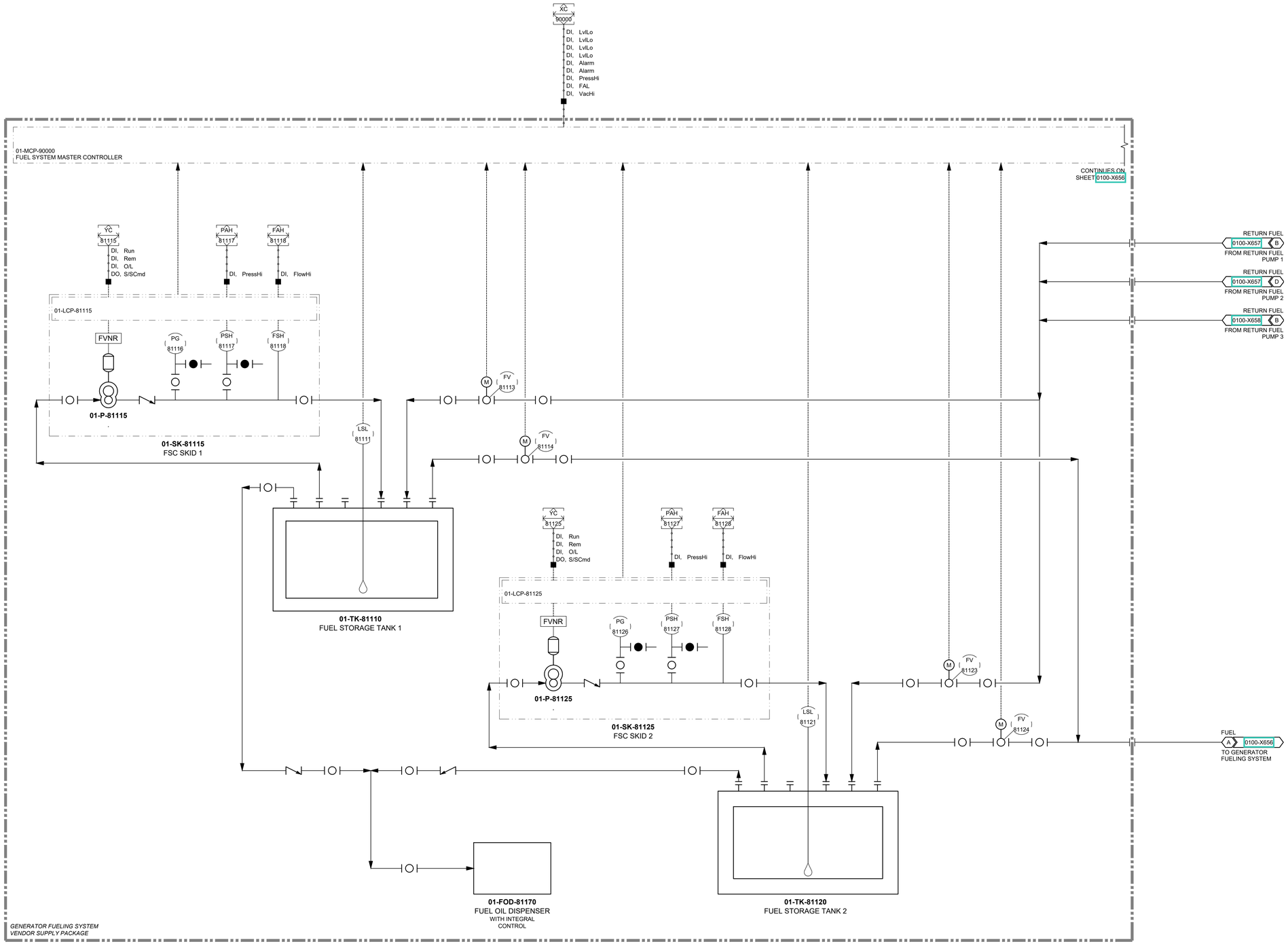
PROFESSIONAL ENGINEER
No. 10848604
RYAN E. MEAD
STATE OF UTAH
04-03-2023

DRAWING No.
0100-X654

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: C:\Users\Monique Moura\AppData\Local\Autodesk\AutoCAD Plant 3D\CollaborationCache\8.10 SPID_v001\PID DWG\DD - 20 SLCWRF\01 Pump Station Site\0100-X654.dwg 04/03/2023 1:04:27 PM



UNIT ID: 01-SK-81115
UNIT NAME: FSC SKID 1
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 10 GPM

UNIT ID: 01-TK-81110
UNIT NAME: FUEL STORAGE TANK 1
SPEC: 23 13 25
TYPE: .
FLUID: DIESEL
CAPACITY: 12000 GAL

UNIT ID: 01-SK-81125
UNIT NAME: FSC SKID 2
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 10 GPM

UNIT ID: 01-TK-81120
UNIT NAME: FUEL STORAGE TANK 2
SPEC: 23 13 25
TYPE: .
FLUID: DIESEL
CAPACITY: 12000 GAL

GENERAL NOTES

1. PROVIDE LEAK DETECTION SYSTEM BY VEEDER ROOT. SEE SPECIFICATION 23 13 25 FACILITY ABOVEGROUND DIESEL FUEL - OIL STORAGE TANKS FOR LEAK DETECTION SYSTEM REQUIREMENT.

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.CHAMBERS
DRAWN BY: M.MOURA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

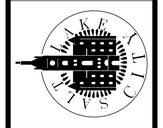
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MM	MC

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

GENERATOR FUELING SYSTEM P&ID



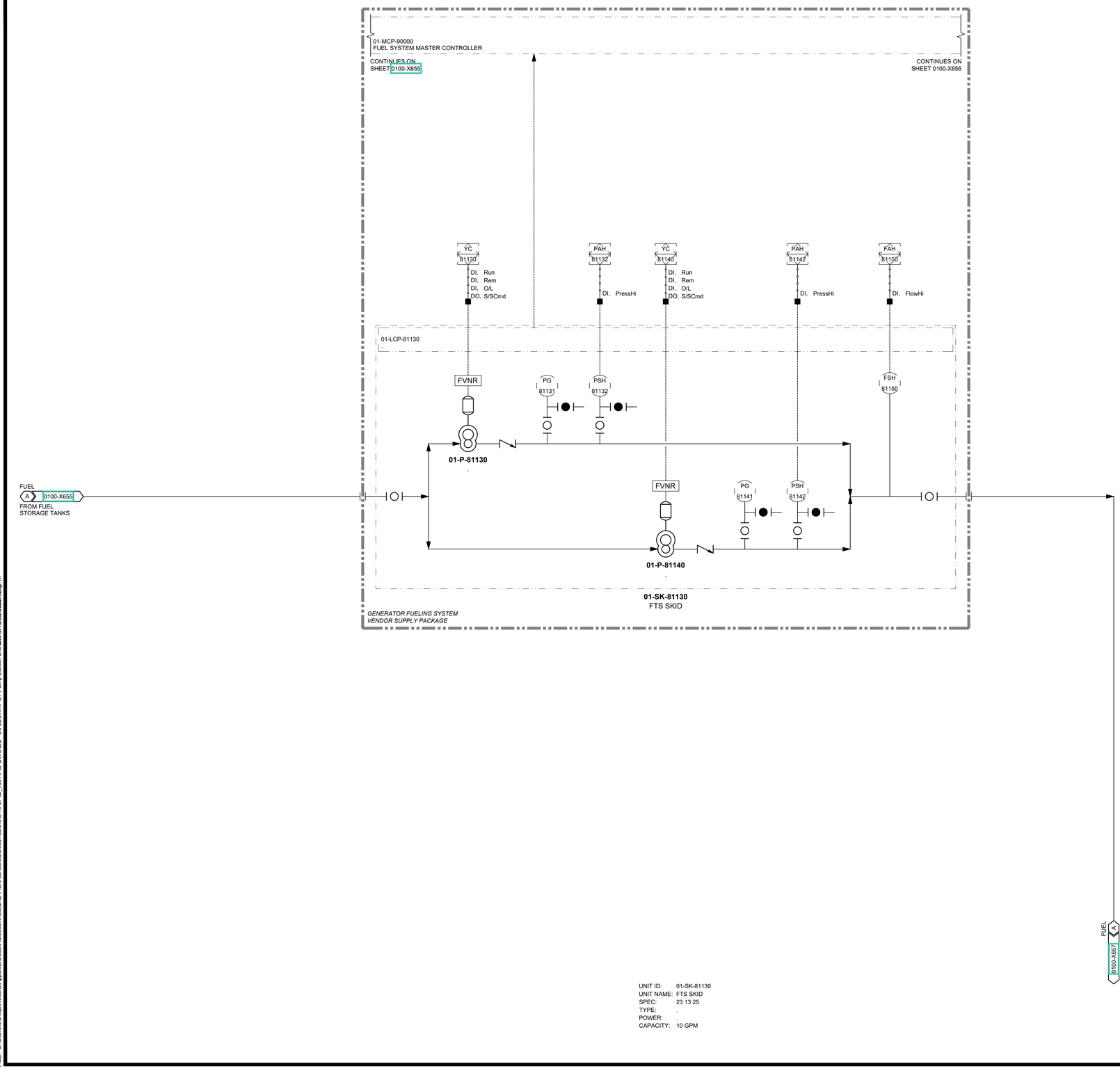


DRAWING No.
0100-X655

SHEET _____ OF _____

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UNIT ID: 01-SK-81130
UNIT NAME: FTS SKID
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 10 GPM

GENERAL NOTES

1. PROVIDE LEAK DETECTION SYSTEM BY VEEDER ROOT. SEE SPECIFICATION 23 13 25 FACILITY ABOVEGROUND DIESEL FUEL - OIL STORAGE TANKS FOR LEAK DETECTION SYSTEM REQUIREMENT.

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.CHAMBERS
DRAWN BY: M.MOURA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MM	MC

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

GENERATOR FUELING SYSTEM P&ID

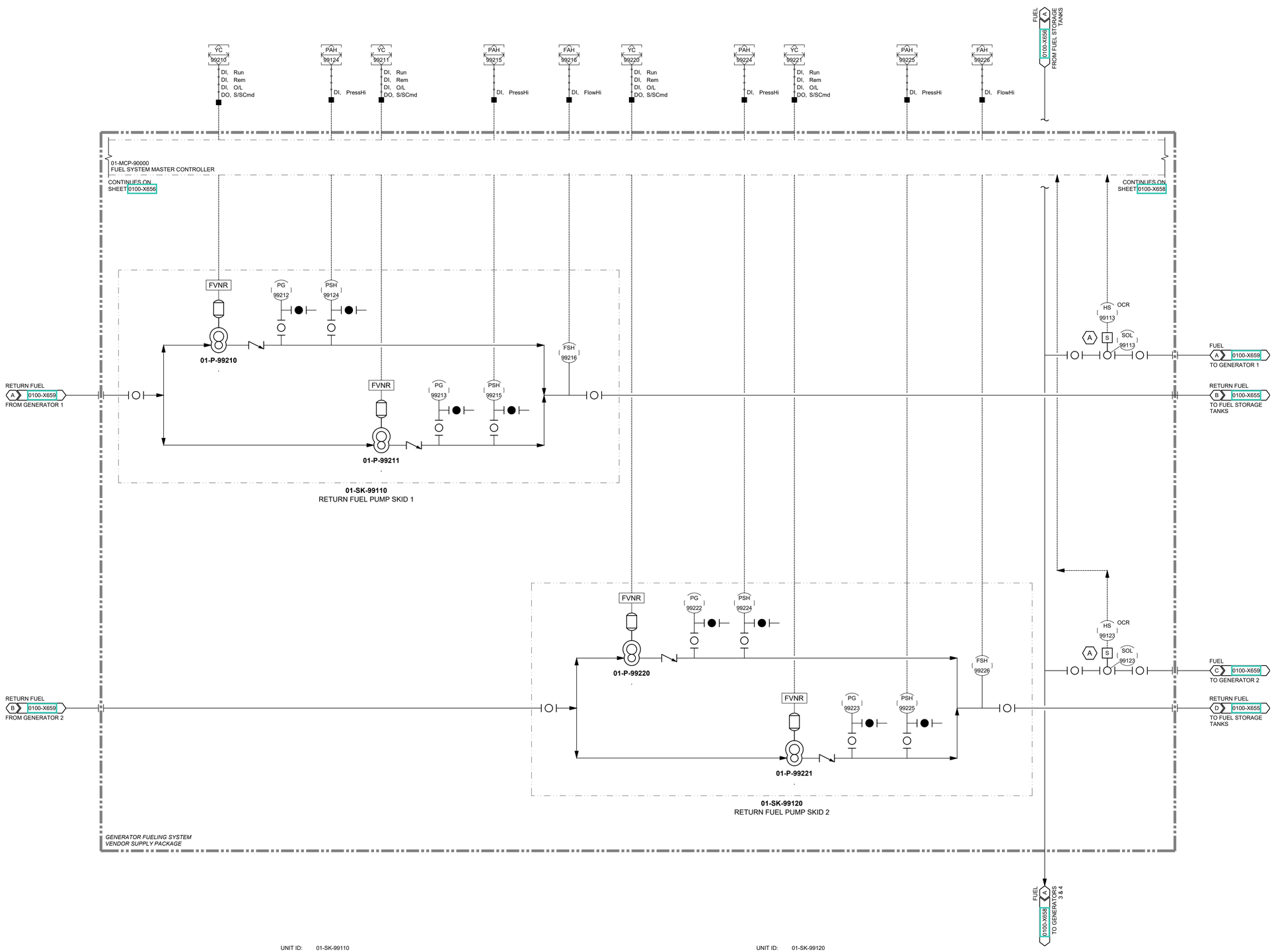
LICENSED PROFESSIONAL ENGINEER
No. 182750
MICHAEL M. CHAMBERS
STATE OF UTAH
04-03-2023

DRAWING No.
0100-X656

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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UNIT ID: 01-SK-99110
UNIT NAME: RETURN FUEL PUMP SKID 1
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 16 GPM

UNIT ID: 01-SK-99120
UNIT NAME: RETURN FUEL PUMP SKID 2
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 16 GPM

GENERAL NOTES

1. PROVIDE LEAK DETECTION SYSTEM BY VEEDER ROOT. SEE SPECIFICATION 23 13 25 FACILITY ABOVEGROUND DIESEL FUEL - OIL STORAGE TANKS FOR LEAK DETECTION SYSTEM REQUIREMENT.

KEYNOTES

A. SOLENOIDS SHALL BE VENDOR SUPPLIED AND CONTRACTOR INSTALLED.

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.CHAMBERS
DRAWN BY: M.MOURA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

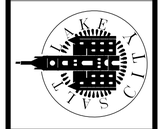
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	MM	MC

LAST CONFORMED SET: SW-1A, ISSUED FOR BID

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

GENERATOR FUELING SYSTEM P&ID



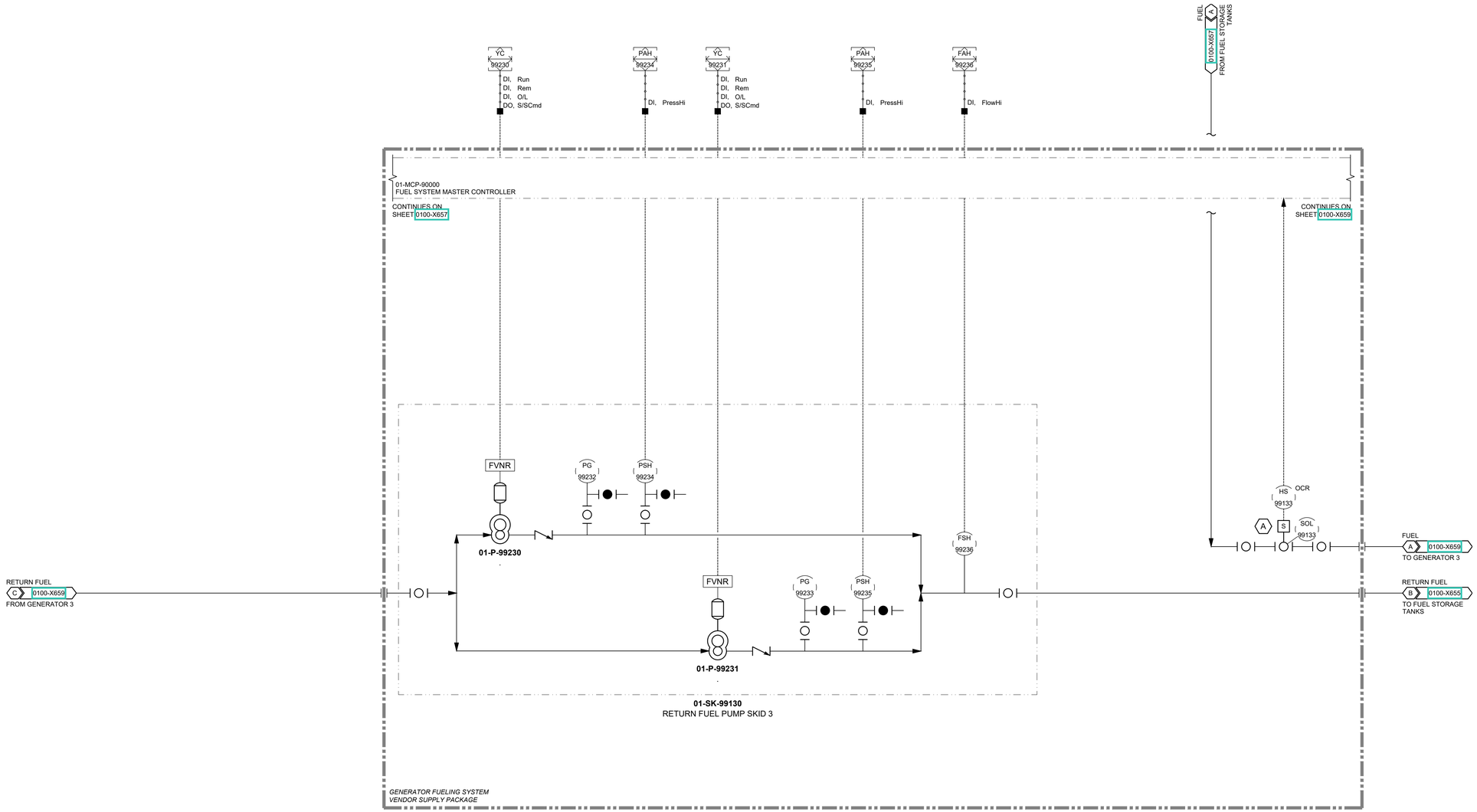


DRAWING No.
0100-X657

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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UNIT ID: 01-SK-99130
UNIT NAME: RETURN FUEL PUMP SKID 3
SPEC: 23 13 25
TYPE: .
POWER: .
CAPACITY: 16 GPM

GENERAL NOTES

1. PROVIDE LEAK DETECTION SYSTEM BY VEEDER ROOT. SEE SPECIFICATION 23 13 25 FACILITY ABOVEGROUND DIESEL FUEL - OIL STORAGE TANKS FOR LEAK DETECTION SYSTEM REQUIREMENT.

KEYNOTES

A. SOLENOIDS SHALL BE VENDOR SUPPLIED AND CONTRACTOR INSTALLED.

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.CHAMBERS
DRAWN BY: M.MOURA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MM	MC

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

GENERATOR FUELING SYSTEM P&ID

LICENSED PROFESSIONAL ENGINEER
No. 182750
MICHAEL M. CHAMBERS
STATE OF UTAH
04-03-2023

DRAWING No.
0100-X658

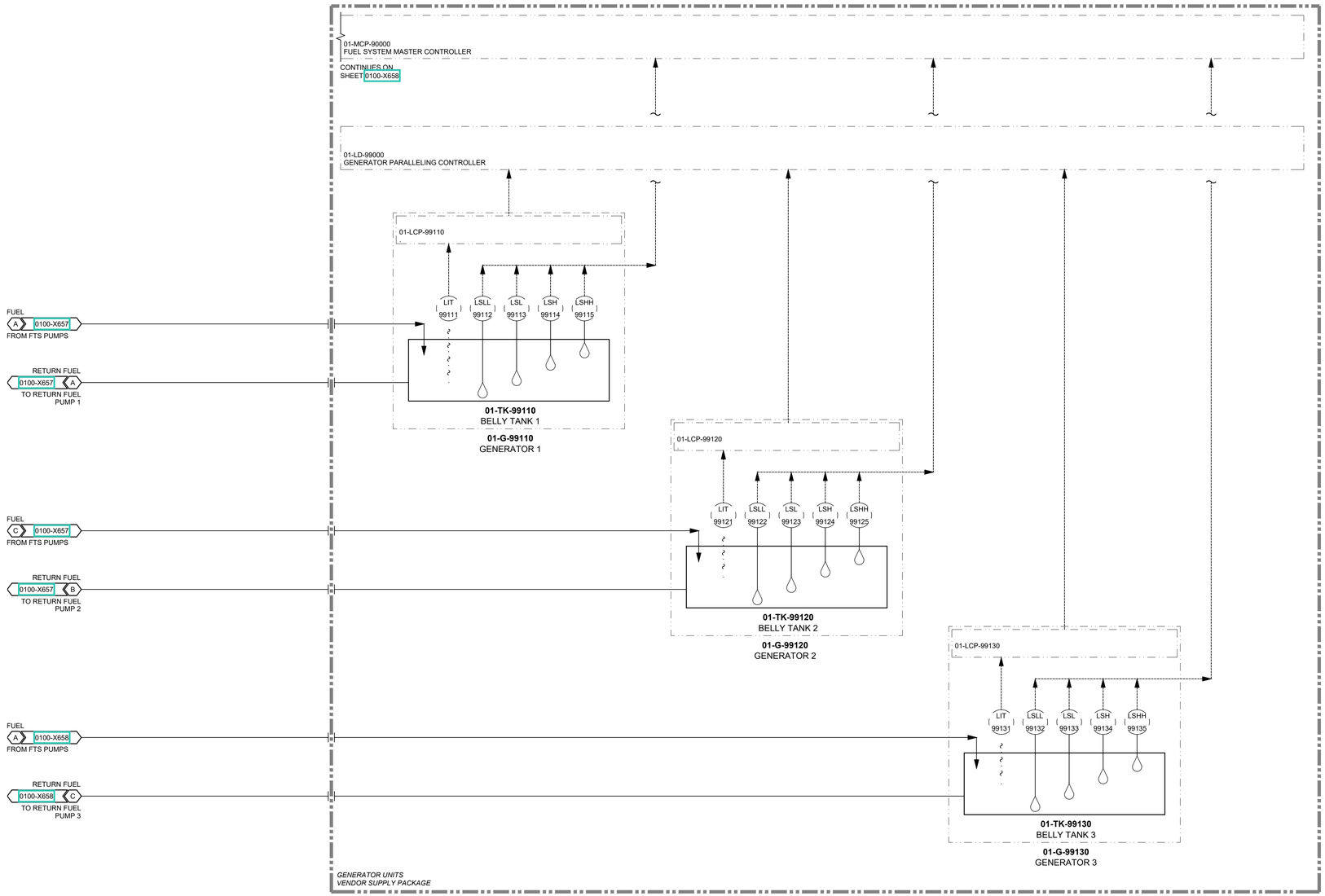
SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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GENERAL NOTES

1. PROVIDE LEAK DETECTION SYSTEM BY VEEDER ROOT. SEE SPECIFICATION 23 13 25 FACILITY ABOVEGROUND DIESEL FUEL - OIL STORAGE TANKS FOR LEAK DETECTION SYSTEM REQUIREMENT.



UNIT ID: 01-TK-99110
UNIT NAME: BELLY TANK 1
SPEC: .
TYPE: .
FLUID: DIESEL
CAPACITY: 4100 GAL

UNIT ID: 01-TK-99120
UNIT NAME: BELLY TANK 2
SPEC: .
TYPE: .
FLUID: DIESEL
CAPACITY: 4100 GAL

UNIT ID: 01-TK-99130
UNIT NAME: BELLY TANK 3
SPEC: .
TYPE: .
FLUID: DIESEL
CAPACITY: 4100 GAL

SCALE: NO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.CHAMBERS
DRAWN BY: M.MOURA
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	ISW-1A, ISSUED FOR BID	MM	MC

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

GENERATOR FUELING SYSTEM P&ID

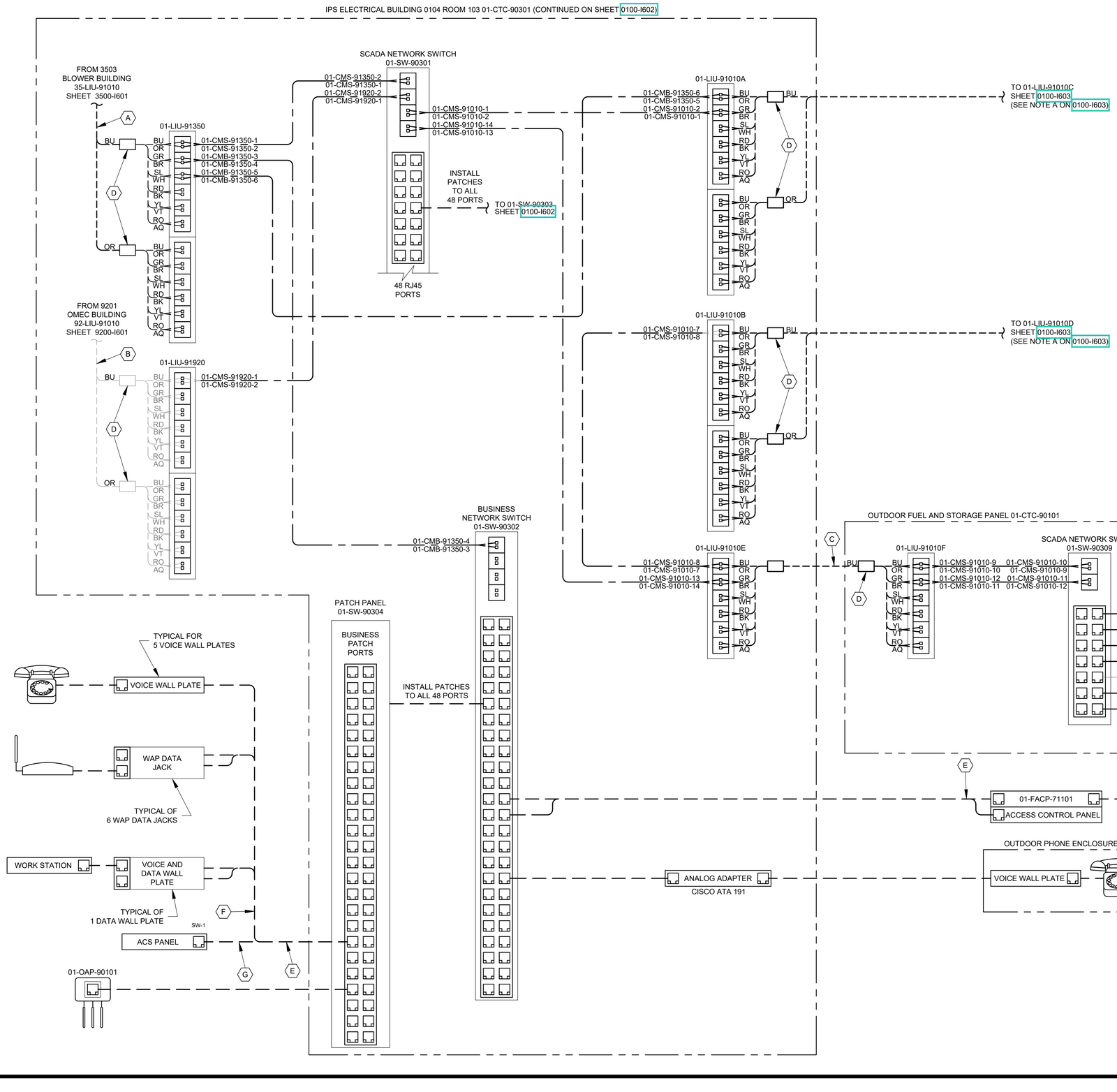
LICENSED PROFESSIONAL ENGINEER
No. 182750
MICHAEL M. CHAMBERS
STATE OF UTAH
04-03-2023

DRAWING No.
0100-X659

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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KEYNOTES

A 1 24-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE BETWEEN THE BLOWER BUILDING & IPS ELECTRICAL BUILDING VIA EXISTING SPLICE BOX. PROPERLY GROUND THE CABLE PER NEC REQUIREMENTS.

B 24-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE BETWEEN THE OMEC BUILDING & IPS ELECTRICAL BUILDING. PROPERLY GROUND THE CABLE PER NEC REQUIREMENTS.TO BE INSTALLED AND TERMINATED BY OTHERS.

C INSTALL 1 12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE BETWEEN THE IPS ELECTRICAL BUILDING & THE OUTDOOR FUEL AND STORAGE PANEL. PROPERLY GROUND THE CABLE PER NEC REQUIREMENTS.

D FANOUT OR SPLICE KIT.

E INSTALL NEW CAT 6 CABLE AS SHOWN IN A MINIMUM 3/4" CONDUIT. WHERE FEASIBLE, CAT 6 CABLES MAY BE COMBINED INTO THE SAME CONDUIT. CONDUITS SHALL BE INSTALLED PER DIVISION 26 AND 27.

F EVENLY DISTRIBUTE CAT 6 CABLES TO PATCH PANELS AS NECESSARY. VERIFY LOCATIONS TYPE AND NUMBER OF CABLES WITH TELECOMMUNICATION FLOOR PLAN DRAWING 0104-T101.

G EVENLY DISTRIBUTE CAT6 CABLES TO PATCH PANELS AS NECESSARY. VERIFY LOCATIONS TYPE AND NUMBER OF CABLES WITH SECURITY DRAWING 0104-Y101.

H FOLLOW MANUFACTURER MINIMUM BEND RADIUS SPECIFICATIONS WHEN INSTALLING ANY FIBER CABLE OR PATCH CORD.

I THE SCADA SWITCH SHALL BE SETUP WITH A PORT ON A DEDICATED VLAN FOR THE SWITCHGEAR RTAC SYSTEM SUCH THAT THE TRAFFIC BETWEEN THE SCADA NETWORK AND THE RTAC SYSTEM SHALL BE ROUTED THROUGH THE PRIMARY AND BACKUP FIREWALLS.

LEGEND

- CAT 6 ETHERNET CABLE
- SINGLE MODE FIBER OPTIC CABLE
- SINGLE MODE DUPLEX PATCH CABLE
- LC TYPE FIBER OPTIC CONNECTOR
- ETHERNET PORT

SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK DIAGRAM SHEET 1 OF 3

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

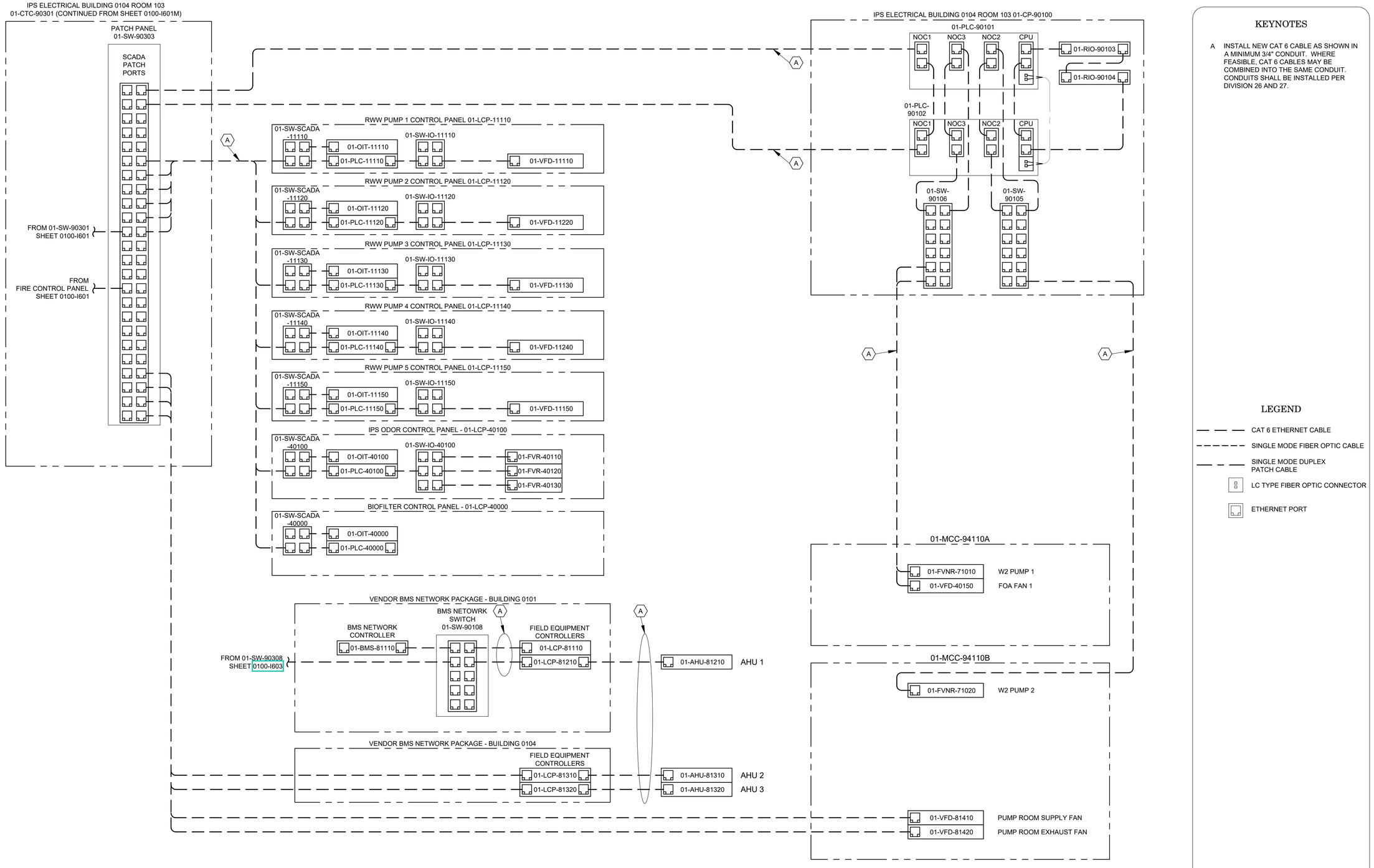
DRAWING No.
0100-I601S

SHEET _____ OF _____

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DATE: 3/29/2023 11:19 AM

FILE: C:\Users\michael.johnson\Aqua Engineering\SLCDPU - 001362 D SLC WRF Expansion\050 Drafting\998 Instrumentation\0100-I601S.dwg



KEYNOTES

A INSTALL NEW CAT 6 CABLE AS SHOWN IN A MINIMUM 3/4" CONDUIT. WHERE FEASIBLE, CAT 6 CABLES MAY BE COMBINED INTO THE SAME CONDUIT. CONDUITS SHALL BE INSTALLED PER DIVISION 26 AND 27.

LEGEND

- CAT 6 ETHERNET CABLE
- SINGLE MODE FIBER OPTIC CABLE
- SINGLE MODE DUPLEX PATCH CABLE
- LC TYPE FIBER OPTIC CONNECTOR
- ETHERNET PORT

SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK DIAGRAM
SHEET 2 OF 3

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

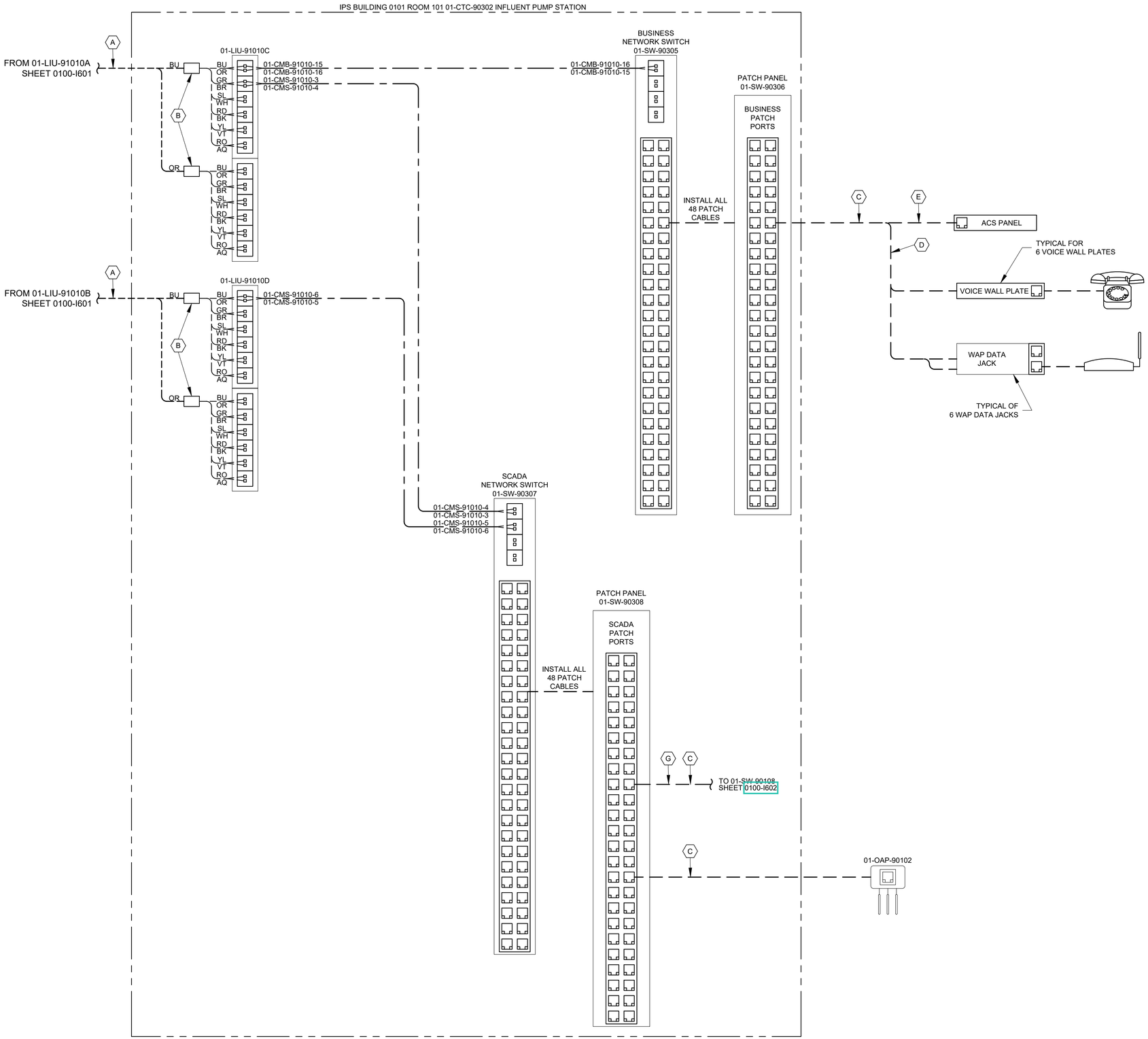
DRAWING No.
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SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:19 AM

FILE: C:\Users\michael.johnson\Aqua Engineering\SLCDPU - 001362 D SLC WRF Expansion\050 Drafting\998 Instrumentation\0100-I602.dwg



KEYNOTES

A INSTALL 2 24-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLES BETWEEN THE INFLUENT PUMP STATION & THE INFLUENT PUMP STATION ELECTRICAL BUILDING. PROPERLY GROUND THE CABLE PER NEC REQUIREMENTS.

B FANOUT OR SPLICE KIT.

C INSTALL NEW CAT 6 CABLE AS SHOWN IN A MINIMUM 3/4" CONDUIT. WHERE FEASIBLE, CAT 6 CABLES MAY BE COMBINED INTO THE SAME CONDUIT. CONDUITS SHALL BE INSTALLED PER DIVISION 26 AND 27.

D DISTRIBUTE CAT 6 CABLES TO PATCH PANELS AS NECESSARY. VERIFY LOCATION TYPE AND NUMBER OF CABLES WITH TELECOMMUNICATION FLOOR PLAN DRAWING 0101-T101.

E DISTRIBUTE CAT 6 CABLES TO PATCH PANELS AS NECESSARY. VERIFY LOCATION TYPE AND NUMBER OF CABLES WITH SECURITY DRAWING 0101-Y101.

F FOLLOW MANUFACTURER MINIMUM BEND RADIUS SPECIFICATIONS WHEN INSTALLING ANY FIBER CABLE OR PATCH CORD.

G THE SCADA SWITCH SHALL BE SETUP WITH A PORT ON A DEDICATED VLAN FOR THE BMS SYSTEM TO CONNECT TO THE BMS NETWORK SWITCH SUCH THAT THE BMS NETWORK MAY NOT BE CONNECTED TO THE SCADA NETWORK EXCEPT VIA THE PRIMARY AND BACKUP FIREWALLS.

LEGEND

- CAT 6 ETHERNET CABLE
- SINGLE MODE FIBER OPTIC CABLE
- SINGLE MODE DUPLEX PATCH CABLE
- LC TYPE FIBER OPTIC CONNECTOR
- ETHERNET PORT

SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A; ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK DIAGRAM
SHEET 3 OF 3

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

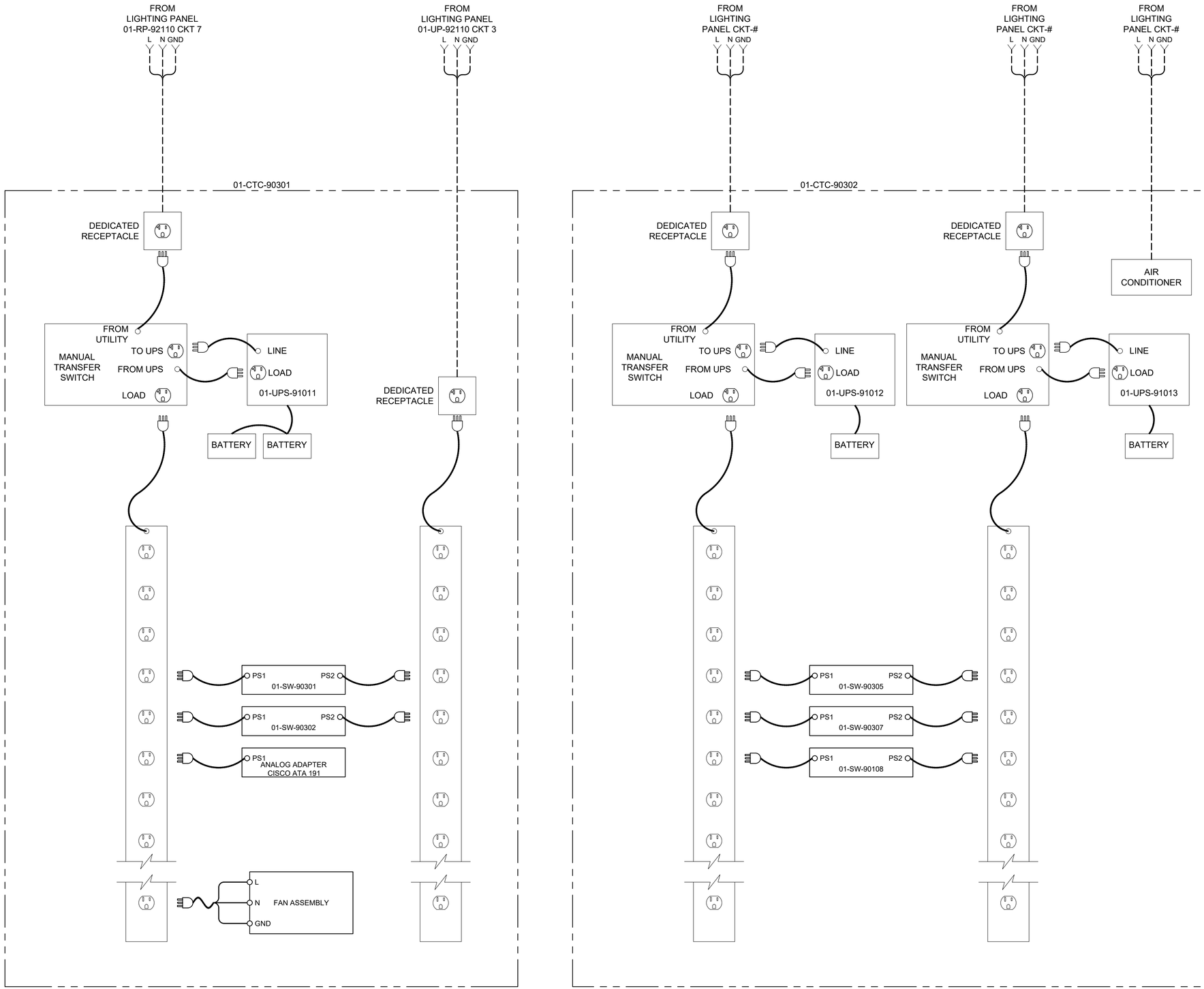
DRAWING No.
0100-I603

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:20 AM

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SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK CTC
POWER DIAGRAM SHEET 1 OF 2

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

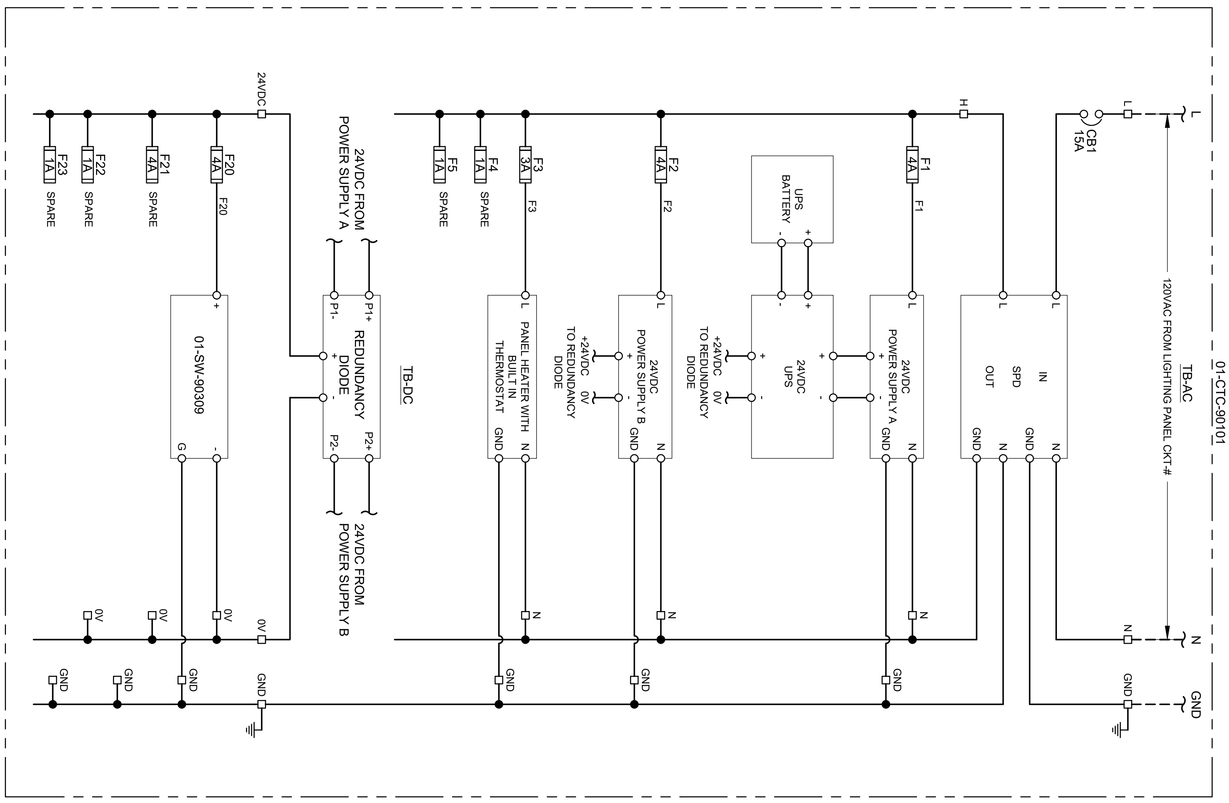
DRAWING No.
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SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:21 AM

FILE: C:\Users\michael.johnson\Aqua Engineering\SLCDPU - 001362.D SLC WRF Expansion\050 Drafting\998 Instrumentation\0100-I604.dwg



SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK CTC
POWER DIAGRAM SHEET 2 OF 2

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

SHEET ____ OF ____
DRAWING No. 0100-I605

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DANGER

ELECTRICAL SHOCK AND BURN HAZARD. CABINET ENTRY ONLY BY AUTHORIZED SERVICE PERSONNEL.

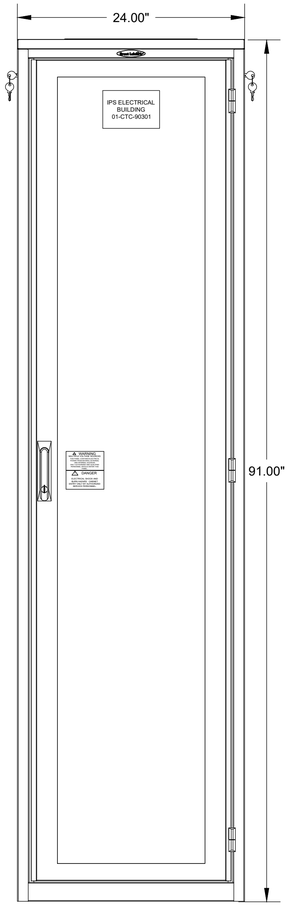
WARNING

MULTIPLE VOLTAGE SOURCES
THIS PANEL CONTAINS ELECTRICAL POWER FROM SEVERAL EXTERNAL AND INTERNAL SOURCES.
ONLY AUTHORIZED AND QUALIFIED PERSONNEL SHOULD ENTER THIS PANEL.

IPS ELECTRICAL BUILDING 01-CTC-90301

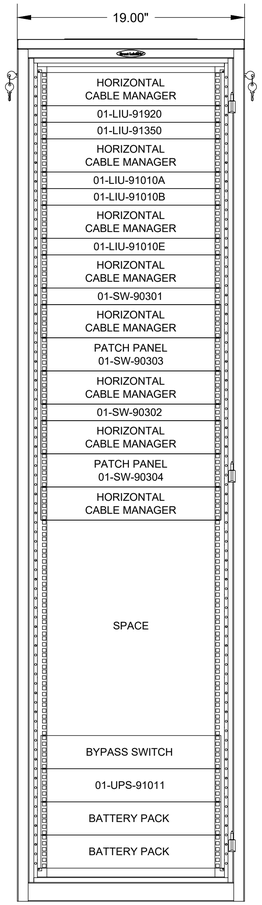
PANEL LABELS

NOT TO SCALE



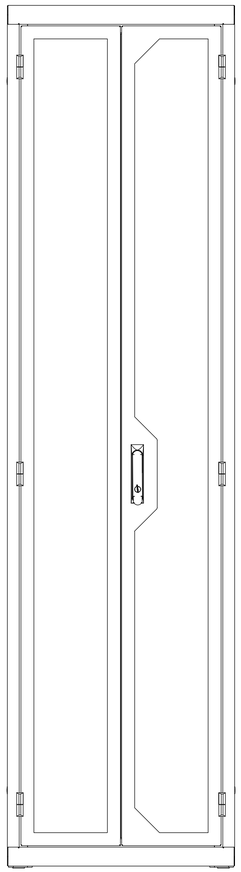
FRONT VIEW

NOT TO SCALE



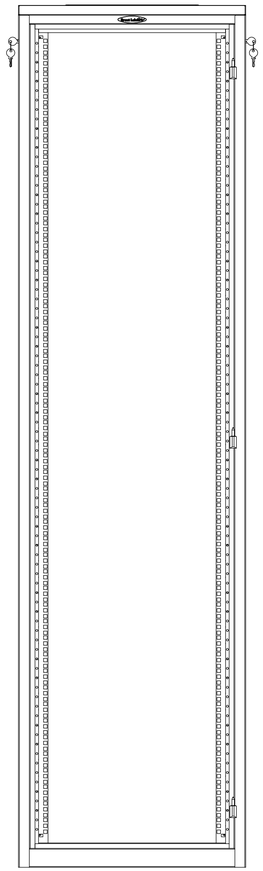
FRONT VIEW WITHOUT DOOR

NOT TO SCALE



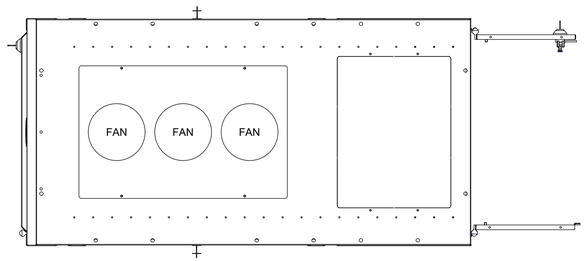
BACK MESH DOOR

NOT TO SCALE



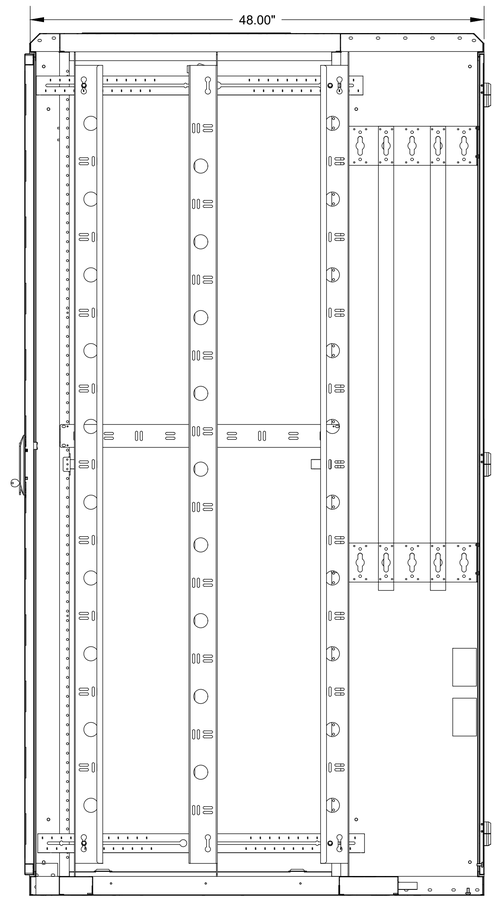
BACK VIEW WITHOUT DOOR

NOT TO SCALE



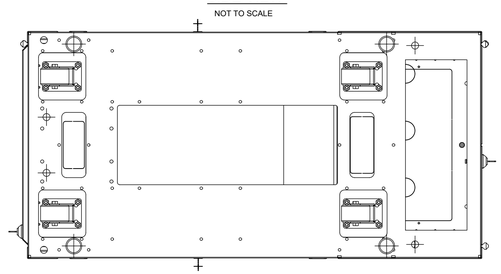
TOP VIEW W/FANS

NOT TO SCALE



SIDE VIEW

NOT TO SCALE



BOTTOM VIEW

NOT TO SCALE

KEYNOTES

A MOUNT TWO DEDICATED OUTLETS IN SINGLE GANG BOXES AT THE BACK OF THE CTC. POWER WILL BE BROUGHT TO THE CTC BY THE ELECTRICAL CONTRACTOR.

B PROVIDE FIBER PATCH PANELS WITH ADAPTER PANELS FOR CONNECTION OF SCADA NETWORK TO OTHER BUILDINGS. FIBER TERMINATIONS SHALL BE PERFORMED BY THE CONTRACTOR.

C CTC SHALL BE A COMPLETE ASSEMBLY PROVIDED BY THE INSTRUMENTATION CONTRACTOR. THE EQUIPMENT IN THE CTC SHALL BE ASSEMBLED FOR THE FACTORY ACCEPTANCE TEST. THE EQUIPMENT SHOULD THEN BE REMOVED AND THE CTC DELIVERED TO THE SITE TO BE INSTALLED BY THE CONTRACTOR. AFTER THE CTC HAS BEEN PERMANENTLY INSTALLED, THE EQUIPMENT SHALL BE RE-INSTALLED AND ALL CONNECTIONS RECONNECTED AND SHALL BE SITE ACCEPTANCE TESTED.

SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	ISW-1A; ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK
CABINET LAYOUT SHEET 1 OF 3

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

DRAWING No.
0100-I606

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: C:\Users\michael.johnson\Aqua Engineering\SLCDPU - 001362.D SLC WRF Expansion\050 Drafting\998 Instrumentation\0100-I606.dwg DATE: 3/29/2023 11:22 AM

DANGER

ELECTRICAL SHOCK AND BURN HAZARD. CABINET ENTRY ONLY BY AUTHORIZED SERVICE PERSONNEL.

WARNING

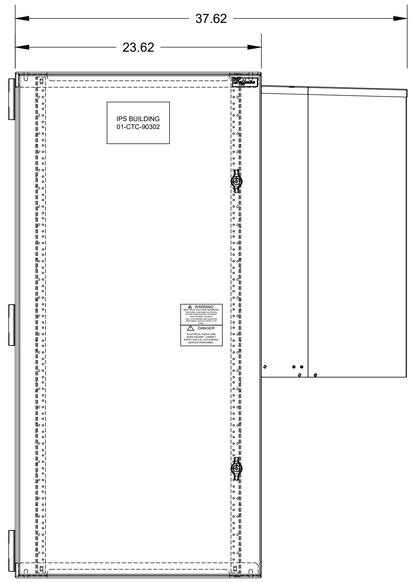
MULTIPLE VOLTAGE SOURCES

THIS PANEL CONTAINS ELECTRICAL POWER FROM SEVERAL EXTERNAL AND INTERNAL SOURCES. ONLY AUTHORIZED AND QUALIFIED PERSONNEL SHOULD ENTER THIS PANEL.

IPS
01-CTC-90302

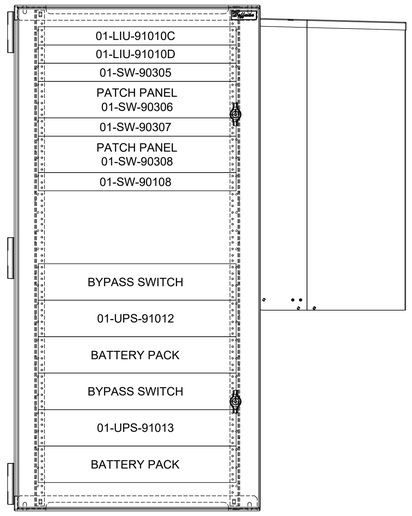
PANEL LABELS

NOT TO SCALE



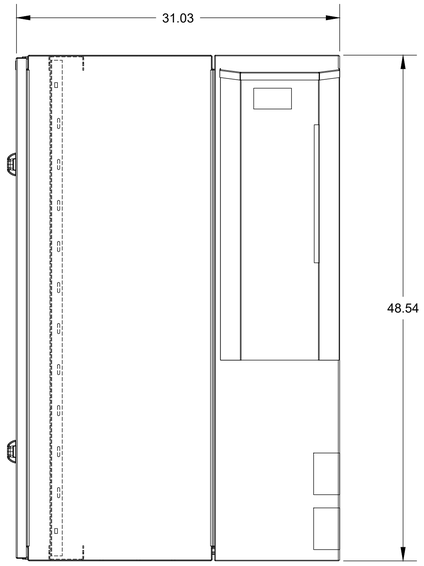
FRONT VIEW

NOT TO SCALE



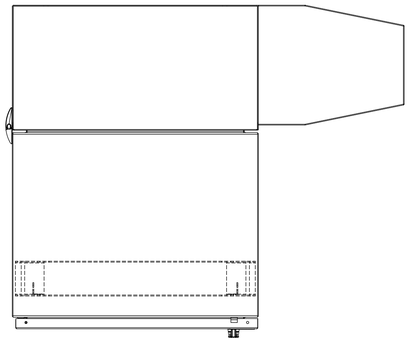
FRONT VIEW WITHOUT DOOR

NOT TO SCALE



SIDE VIEW

NOT TO SCALE



TOP VIEW W/FANS

NOT TO SCALE

KEYNOTES

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SCALE: N/A

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MGJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK CABINET LAYOUT SHEET 2 OF 3

REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

DRAWING No.
0100-I607

SHEET _____ OF _____

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DATE: 3/29/2023 11:22 AM

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DANGER

ELECTRICAL SHOCK AND BURN HAZARD. CABINET ENTRY ONLY BY AUTHORIZED SERVICE PERSONNEL.

WARNING

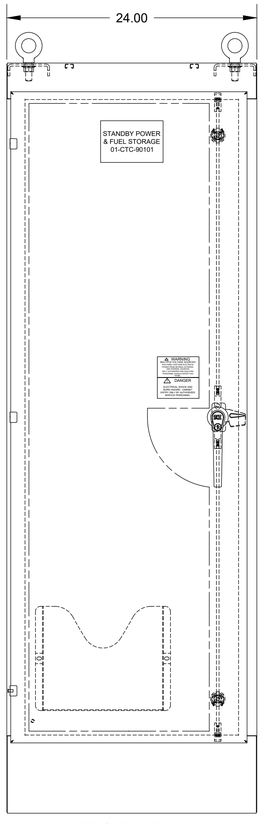
MULTIPLE VOLTAGE SOURCES

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STANDBY POWER & FUEL STORAGE 01-CTC-90101

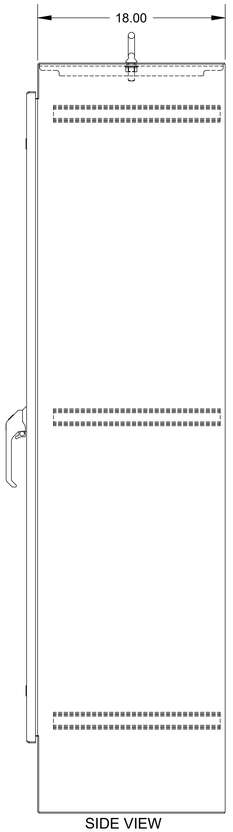
PANEL LABELS

NOT TO SCALE



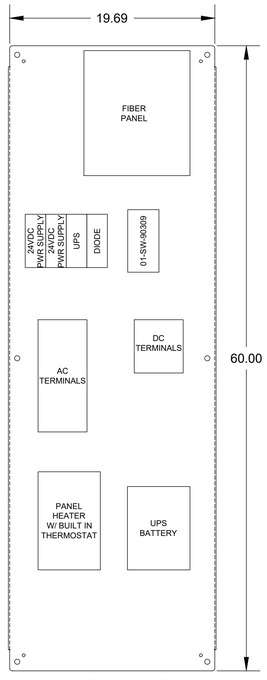
FRONT VIEW

NOT TO SCALE



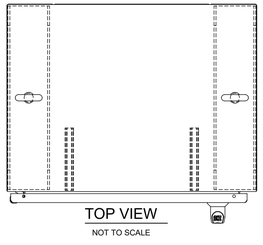
SIDE VIEW

NOT TO SCALE



BACKPANEL LAYOUT VIEW

NOT TO SCALE



TOP VIEW

NOT TO SCALE

KEYNOTES

A PROVIDE FIBER PATCH PANELS WITH ADAPTER PANELS FOR CONNECTION OF SCADA NETWORK TO OTHER BUILDINGS. FIBER TERMINATIONS SHALL BE PERFORMED BY THE CONTRACTOR.

SCALE: N/A

PROJECT ADDRESS: 1365 W 2300 N SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: M.JEPPSEN
DRAWN BY: D.LEAVITT
CHECKED BY: M.JEPPSEN
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	MCJ	MPJ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY

NETWORK
CABINET LAYOUT SHEET 3 OF 3

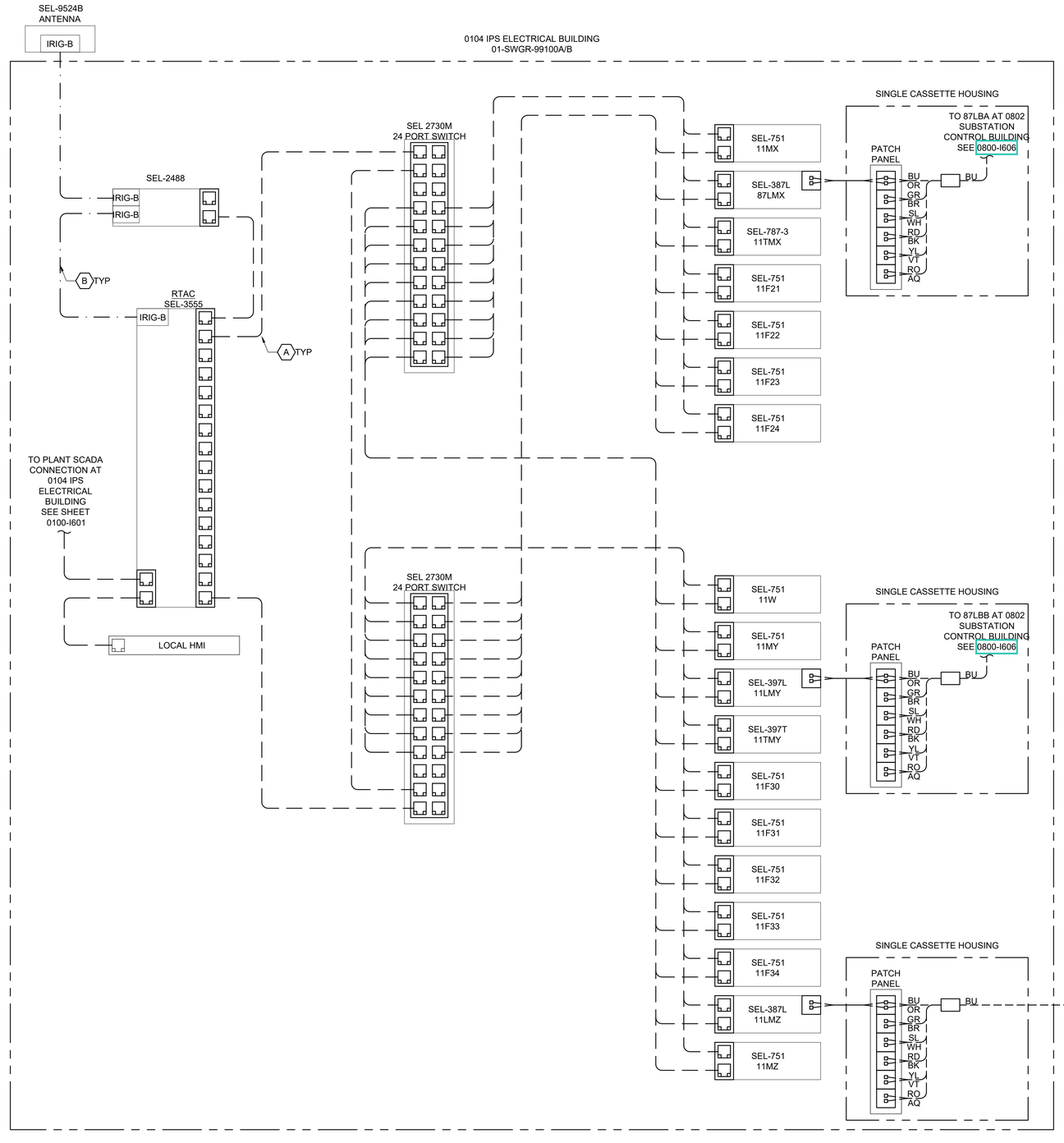
REGISTERED PROFESSIONAL ENGINEER
No. 5338864
MARK P. JEPPSEN
STATE OF UTAH
04-03-2023

DRAWING No.
0100-I608

SHEET _____ OF _____

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GENERAL NOTES

1. ALL SWITCHGEAR COMMUNICATIONS DEVICES AND RELAYS SHALL BE SEL, AS INDICATED, OR APPROVED EQUAL.
2. SUBSTATION COMMUNICATIONS DETAILS AND REQUIREMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE PENDING FINAL MAIN PLANT SWITCHGEAR CONFIGURATION.
3. "IPS" ABBREVIATES "INLET PUMP STATION".

KEYNOTES

A. PROVIDE CAT 6 CABLE AS SHOWN IN A MINIMUM 3/4" CONDUIT, WITH #12 EQUIPMENT GROUNDING CONDUCTOR. WHERE FEASIBLE, CAT 6 CABLES MAY BE COMBINED INTO THE SAME CONDUIT. CONDUITS SHALL BE INSTALLED PER DIVISIONS 26 AND 27.

B. DISTRIBUTE IRIG-B SIGNAL TO ALL SWITCHGEAR SEL DEVICES AND OTHER IRIG-B CAPABLE DEVICES WHETHER OR NOT SHOWN. PROVIDE IRIG-B FROM THE RTAC VIA COAXIAL CONNECTION TO DEVICES WITHIN THE 0104 IPS ELECTRICAL BUILDING. PROVIDE CABLE AND CONDUIT SO DEVICES OUTSIDE THE CONTROL BUILDING SHALL RECEIVE IRIG-B FROM THE RTAC VIA SERIAL CONNECTION USING AN SEL FIBER OPTIC TRANSCEIVER.

C. PROVIDE PATCH PANEL AT GENERATOR SYSTEM'S LINE PROTECTION RELAY, SIMILAR TO WHAT IS PROVIDED FOR OTHER SEL-387L RELAYS THAT ARE SHOWN. DELEGATED DESIGN - PROVIDE GENERATOR CONTROL AND PARALLELING SYSTEM FOR GENERATORS. PROVIDE MONITORING OF SWITCHGEAR SENSORS AND BREAKERS THROUGH THE GENERATOR'S DIGITAL MASTER CONTROLLER, USING MODBUS/TCP PROTOCOL, TO SCADA.

LEGEND

- CAT 6 ETHERNET CABLE
- SINGLE MODE FIBER OPTIC CABLE
- SINGLE MODE DUPLEX PATCH CABLE
- COAXIAL CABLE
- LC TYPE FIBER OPTIC CONNECTOR
- ETHERNET PORT

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: TBD
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	GR	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

IPS FACILITY SWITCHGEAR COMM BLOCK DIAGRAM

PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS

DRAWING No.
0100-I610

SHEET ---- OF ----

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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GENERAL NOTES

1. REFER TO P&IDS AND INSTRUMENT LOOP DRAWINGS FOR ADDITIONAL DETAILS.
2. GROUP CONDUCTORS INTO LARGER CONDUCTOR-COUNT CABLES AS APPROPRIATE FOR CABLE MANAGEMENT. PROVIDE ENCLOSED RAIL-MOUNTED TERMINALS WHERE SPLITTING TO/FROM GROUP CABLES.
3. SECURITY AND ACCESS CONTROL FEATURES NOT SHOWN. PROVIDE CONDUCTORS AND CABLES IN CONDUIT FOR SYSTEM INTERCONNECTIONS PER SYSTEM MANUFACTURER INSTRUCTIONS.
4. SEPARATE RTD AND 4-20 SIGNAL CABLES FROM DISCRETE AND POWER CABLES.
5. CONNECT BMS SENSORS TO BMS, NOT PLC.

TYPICAL INSTRUMENT WIRING SCHEDULE

EQUIPMENT	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE	DETAIL DWG
TYPICAL COMBUSTIBLE OR TOXIC GAS DETECTOR	AIT	AE1	MFR PROVIDED CABLE	1"	SIGNAL	ILD-A.H.3AS
	AIT	AE2	MFR PROVIDED CABLE	1"	SIGNAL	
	AIT	JB	3#16TSP	1"	SIGNAL	
	JB	PLC	3#16TSP	1"	SIGNAL	
	GAS NOTIFICATION PANEL	BMS	3#14	3/4"	SIGNAL	
	AIT	GAS NOTIFICATION PANEL	4#14	3/4"	SIGNAL	
GAS NOTIFICATION RELAY PANEL	RELAY PANEL	EACH ALARM BEACON	2#14	3/4"	POWER	ILD-A.H.4A_2S
TYPICAL GAS ALARM	JB	PLC	6#14 TRAY CABLE	1"	SIGNAL	ILD-A.H.4A_1S
TYPICAL MODULATING MOTORIZED VALVE	FCV	JB	2#16TSP, 6#14 TRAY CABLE	1", 1-1/4"	SIGNAL	ILD-FCV.H.1AS
	JB	PLC	2#16TSP, 6#14 TRAY CABLE	1", 1-1/4"	SIGNAL	
	FV	AC POWER	SEE FLOOR PLAN	SEE F/P	POWER	
TYPICAL MAGNETIC FLOW METER	FIT	JB	2#16TSP	1"	SIGNAL	ILD-FE.H.1AS
	FIT	JB	2C+G #12 TRAY CABLE	3/4"	POWER	
	JB	PLC	2#16TSP	1"	SIGNAL	
	JB	PLC	2C+G #12 TRAY CABLE	3/4"	POWER	
TYPICAL ULTRASONIC FLOW METER	FIT	JB	2#16TSP	1"	SIGNAL	ILD-FE.H.3AS
	JB	PLC	2#16TSP	1"	SIGNAL	
	JB	AC POWER	2#12, #12G (PROVIDE 5-15R IF REQUIRED)	3/4"	POWER	
TYPICAL FLOW SWITCH	FSH	JB	2#16TSP	1"	SIGNAL	ILD-FSL.H.1AS
	JB	PLC	2#16TSP	1"	SIGNAL	
	FSH	JB	2C+G #12 TRAY CABLE	3/4"	POWER	
	JB	AC POWER	2C+G #12 TRAY CABLE	3/4"	POWER	
TYPICAL TWO POSITION MOTORIZED VALVE	VALVE	JB	8#14 TRAY CABLE	1-1/4"	SIGNAL	ILD-FV.H.1B
	JB	PLC	8#14 TRAY CABLE	1-1/4"	SIGNAL	
	VALVE	AC POWER	SEE FLOOR PLAN	1-1/4"	SIGNAL	
TYPICAL WATER HEATER	LIMIT SWITCH	JB	4#14 TRAY CABLE	1"	MIXED	ILD-HE.H.1AS
	JB	PLC	4#14 TRAY CABLE	1"	MIXED	
TYPICAL LIMIT SWITCHES	EACH LIMIT SWITCH	JB	MFR PROVIDED CABLE	1"	SIGNAL	ILD-HV.H.1AS
	JB	PLC	4#14 TRAY CABLE	1"	SIGNAL	
TYPICAL UNGUIDED WAVE LEVER METER (ULTRASONIC OR RADAR)	LIT	LE	MFR PROVIDED CABLE	1"	SIGNAL	ILD-L.H.1BS
	LIT	JB	1#16TSP, 4C+G #14 TRAY CABLE, IS BARRIERS, CL I / DIV 1 SEALOFFS	3/4", 3/4"	SIGNAL	
	LIT	JB	2C+G #12 TRAY CABLE, IS BARRIERS, CL I / DIV 1 SEALOFFS	3/4"	POWER	
	JB	PLC	1#16TSP, 4C+G #14 TRAY CABLE	3/4", 3/4"	SIGNAL	
	JB	PLC	2#12 TRAY CABLE	3/4"	POWER	
RELAY JUNCTION BOX	EACH ZSO POSITION SWITCH	JB	2C #14 TRAY CABLE	3/4"	SIGNAL	ILD-LCP.H.5A
	JB	PLC	8C+G #14 TRAY CABLE	1"	SIGNAL	
	JB	VFD	4C+G #14 TRAY CABLE	1"	SIGNAL	
RAW WASTEWATER PUMP INTERLOCK JUNCTION BOX (PROVIDE LOOPS FOR EACH PUMP) (DEVICES ARE FOR ASSOCIATED PUMP.)	ILD-FSL.H.1A'S FSL	01-LCP-11##0C	2C #14 TRAY CABLE	3/4"	SIGNAL	ILD-LCP.H.6A
	ILD-PSH.H.1A'S PSH	01-LCP-11##0C	2C+G #14 TRAY CABLE	3/4"	SIGNAL	
	ILD-FV.H.1B'S DISCHARGE ZSO	01-LCP-11##0C	2C #14 TRAY CABLE	3/4"	SIGNAL	
	ILD-LCP.H.5A'S MASTER ZSO	01-LCP-11##0C	2C #14 TRAY CABLE	3/4"	SIGNAL	
	ILD-M.H.5B'S MASTER VSH	01-LCP-11##0C	2C #14 TRAY CABLE	3/4"	SIGNAL	
	SPACE HEATER INTERPOSING RELAY	01-LCP-11##0C	2C #14 TRAY CABLE	3/4"	SIGNAL	
	01-P-11##0 HS	01-LCP-11##0C	#16 TSP, #12G	3/4"	SIGNAL	
	01-LCP-11##0C	LCP	2C+G #14 TRAY CABLE	3/4"	POWER	
	01-LCP-11##0C	PLC	2C+G #14 TRAY CABLE	3/4"	POWER	
	01-LCP-11##0C MARSHALLING CABINET	01-VFD-11##0C	2C+G #14 TRAY CABLE	SEE SITE PLANS	SIGNAL	
	01-LCP-11##0C MARSHALLING CABINET, AND OTHER EQUIPMENT ROUTING THROUGH THIS PANEL; PROVIDE RAIL-MOUNTED TERMINALS, ISOLATED AND CHASSIS GROUND BARS.	01-VFD-11##0C / PLC	GROUP CABLES AS APPROPRIATE TO REDUCE NUMBER OF CABLES IN MAINTENANCE HOLES, ETC. MAINTAIN SEPARATION OF ANALOG SIGNAL CABLES, SUCH AS RTD SIGNALS AND 4-20mA SIGNALS. ENSURE SHIELDS AND THEIR DRAIN WIRES DO NOT CONTACT GROUND, CHASSIS, EQUIPMENT GROUNDING SYSTEM, NOR GROUNDING ELECTRODE SYSTEM.	SEE SITE PLANS	POW+SIG	
	AC POWER (TYP OF 2)	SEE PLANS	2#12, #12G	3/4"	POWER	

TYPICAL INSTRUMENT WIRING SCHEDULE

EQUIPMENT	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE	DETAIL DWG
TYPICAL FLOAT SWITCH	LSL	JB	MFR PROVIDED CABLE	1"	SIGNAL	ILD-LSLL_LSHH.H.1A
	LSH	JB	MFR PROVIDED CABLE	1"	SIGNAL	
	JB	PLC	4#14 TRAY CABLE	3/4"	SIGNAL	
TYPICAL RAW WASTEWATER WET WELL FLOAT SWITCH	LEVEL SWITCH (EACH)	FLOAT RELAY LCP	MFR PROVIDED CABLE, IS BARRIERS, CL I / DIV 1 SEALOFFS	1"	SIGNAL	ILD-LSLL_LSHH.H.2A
	PUMP LCP I&C PULLBOX	EACH VFD	8C+G #14 TRAY CABLE	1"C.	SIGNAL	
	PUMP LCP I&C PULLBOX	PLC	3C+G #14 TRAY CABLE	3/4"	POWER	
TYPICAL RWW PUMP SMART VARIABLE FREQUENCY DRIVE	VFD	PLC	CAT 6 CABLE, #12 GND	1"	SIGNAL	ILD-M.EN.4C_1
	VFD	PLC	2/C #14 TRAY CABLE	3/4"	SIGNAL	ILD-M.EN.4C_2
	VFD	HS/FIELD CONTROL STATION/JB	2#14 TRAY CABLE	3/4"	SIGNAL	
	VFD	SEE ILD-LSLL_LSHH.H.2A	SEE ILD-LSLL_LSHH.H.2A	SEE PLANS	SIGNAL	
	VFD	SEE ILD-M.H.5B	SEE ILD-M.H.5B	SEE ILD-M.H.5B	SIGNAL	
	VFD	SEE ILD-LCP.H.5A	SEE ILD-LCP.H.5A	SEE ILD-LCP.H.5A	SIGNAL	
	VFD	SEE ILD-LCP.H.6A	SEE ILD-LCP.H.6A	SEE ILD-LCP.H.6A	SIGNAL	
	VFD	SEE ILD-M.H.6A	SEE ILD-M.H.6A	SEE ILD-M.H.6A	SIGNAL	
	VFD	SEE ILD-M.H.3BS	SEE ILD-M.H.3BS	SEE ILD-M.H.3BS	SIGNAL	
	PLC	EACH 01-LCP-11##0C	2C+G #8 TRAY CABLE	3/4"	POWER	
	AC POWER	VFD	SEE FLOOR PLAN	SEE F/P	POWER	
	VFD	MOTOR	SEE FLOOR PLAN	SEE F/P	POWER	
TYPICAL HARDWIRED FVNR MOTOR STARTER	STARTER	HS/FIELD CONTROL STATION/JB	6#14 TRAY CABLE	1"	SIGNAL	ILD-M.H.2AS
	HS/FIELD CONTROL STATION/JB	PLC OR BMS	6#14 TRAY CABLE	1"	SIGNAL	
	EACH INTERLOCK POINT	HS/FIELD CONTROL STATION/JB	2#14 TRAY CABLE, AS REQUIRED	3/4" A/R	SIGNAL	
THERMISTOR RELAY CONNECTION	EACH THERMISTOR, 3-WIRE, 100-OHM	01-LCP-11##0C	#16 SHIELDED TWISTED TRIAD	3/4" A/R	SIGNAL	ILD-M.H.3BS
	01-LCP-11##0C	VFD	#16 TWISTED SHIELDED TRIAD GROUP CABLE WITH INDIVIDUAL AND OVERALL SHIELDS, 2 CABLES, 8 TRIADS EACH. (BEARINGS ON CABLE SEPARATE FROM WINDINGS)	SEE SITE PLANS	SIGNAL	
TYPICAL HARDWIRED VARIABLE FREQUENCY	VFD	CONTROL BOX	2#16TSP, 4#18TS, 14#14 TRAY CABLE	1", 1", 1-1/4"	SIGNAL	ILD-M.H.4B_1
	CONTROL BOX	PLC OR BMS	2#16TSP, 16#14 TRAY CABLE	1", 1-1/4"	SIGNAL	ILD-M.H.4B_2
	AC POWER	VFD	SEE FLOOR PLAN	SEE F/P	POWER	
	VFD	MOTOR	SEE FLOOR PLAN	SEE F/P	POWER	
VIBRATION MONITORING CONNECTION	EACH VIBRATION SENSOR	VIBRATION MONITORING SYSTEM	#16TSP, OR PER MANUFACTURER REQUIREMENTS	3/4" EACH	SIGNAL	ILD-M.H.5B
	SPEED SENSOR	VIBRATION MONITORING SYSTEM	#16TSP, OR PER MANUFACTURER REQUIREMENTS	3/4"	SIGNAL	
	VIBRATION MONITORING SYSTEM	01-LCP-11##0C	4C+G #14 TRAY CABLE	1"	SIGNAL	
	VIBRATION MONITORING SYSTEM	01-CTC-90302	CAT 6 CABLE, #12 GND	1"	SIGNAL	
	01-LCP-11##0C	VFD	4C+G #14 TRAY CABLE	SEE SITE PLANS	SIGNAL	
	VIBRATION MONITORING SYSTEM	PLC	4C+G #14 TRAY CABLE	3/4"	POW+SIG	
TYPICAL RAW WASTEWATER	SMART RELAY ENCLOSURE	PLC	12/C #14 TRAY CABLE	SEE SITE PLANS	POW/SIG	ILD-M.H.6A
	SMART RELAY ENCLOSURE	EACH VFD	2/C+G #14 TRAY CABLE	3/4"	SIGNAL	
HVAC OPEN/CLOSE	ACTUATOR	JB	12#14 TRAY CABLE	1-1/4"	COMBINED	ILD-MD.H.1A
	JB	BMS	12#14 TRAY CABLE	1-1/4"	COMBINED	
TYPICAL PRESSURE	PIT	JB	1#16TSP	3/4"	SIGNAL	ILD-P.H.1CS
	JB	PLC	1#16TSP	3/4"	SIGNAL	
TYPICAL DIFFERENTIAL	PDIT	JB	1#16TSP, 2C+G #14 TRAY CABLE	1"	SIGNAL	ILD-PD.H.1AS
	JB	PLC	1#16TSP, 2C+G #14 TRAY CABLE	1"	SIGNAL	
TYPICAL PRESSURE SWITCH	SWITCH	JB	2C+G #14 TRAY CABLE	3/4"	SIGNAL	ILD-PSH.H.1C
	JB	PLC	2C+G #14 TRAY CABLE	3/4"	SIGNAL	
	PLC	SEE ILD-LCP.H.6A	2C+G #14 TRAY CABLE	3/4"	SIGNAL	
TYPICAL SOLENOID VALVE	SV	VALVE CONTROL BOX	2C+G #14 TRAY CABLE	3/4"	SIGNAL	ILD-SOL.H.1AS
	VALVE CONTROL BOX	PLC	6C+G #14 TRAY CABLE	1"	SIGNAL	
HVAC MODULATING CONTROL VALVE	CONTROL/ACTUATOR	JB	2#16TSP	1"	POWER	N/A
	CONTROL/ACTUATOR	JB	2#14 TRAY CABLE	3/4"	SIGNAL	
	JB	BMS	2#16TSP, 2#14 TRAY CABLE	1", 3/4"	COMBINED	
HVAC TEMPERATURE	TEMP SENSOR	JB	1#16TSP	3/4"	SIGNAL	N/A
	JB	BMS	1#16TSP	3/4"	SIGNAL	
TYPICAL VENDOR/LOCAL	LCP	PLC	ETHERNET	3/4"	SIGNAL	ILD-LCP.EN.1A
	LCP	AC POWER	SEE PLANS	SEE PLANS	POWER	
CCTV INTERIOR	XI	CTC CABINET PER NETWORK DIAGRAM	ETHERNET	3/4"	SIGNAL	0100-Y701
CCTV EXTERIOR	XI	CTC CABINET PER NETWORK DIAGRAM	ETHERNET	3/4"	SIGNAL	0100-Y701
	JB	XI	MFR PROVIDED CABLE	3/4"	DC POWER	

SCALE: NOT TO SCALE

PROJECT ADDRESS: 1365 W 2300 N SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

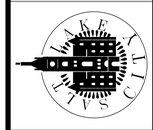
REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	ISY-1A. ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

TYPICAL WIRING SCHEDULE





DRAWING No. 0100-E601

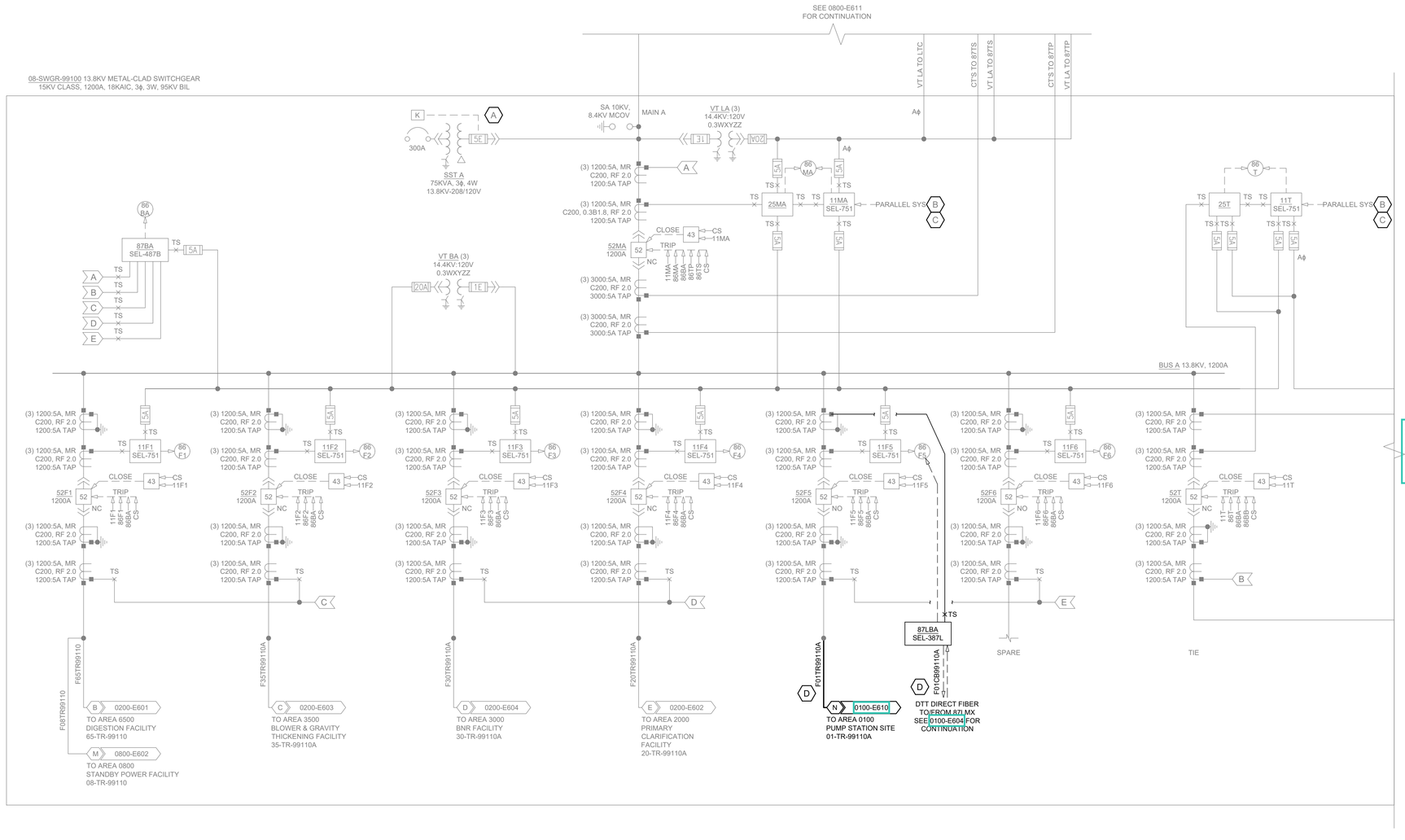
SHEET ---- OF ----

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905390_0100-E601.dwg DATE: 3/30/2023 9:05 AM

DEVICE LEGEND

DEVICE ID	MFR/MODEL	FUNCTION(S)	DESCRIPTION
87BA	SEL-487B	87, 50, 51	BUS PROTECTION RELAY, BUS A
11MA	SEL-751	25, 27, 51, 51G, 59, 50BF, 32	FEEDER PROTECTION RELAY, MAIN A
11F1	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F1
11F2	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F2
11F3	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F3
11F4	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F4
11F5	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F5
11F6	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F6
11T	SEL-751	25, 51, 51G, 59, 50BF	FEEDER PROTECTION RELAY, TIE
86BA	ELECTROSWITCH	86	LOCKOUT RELAY, BUS A
86MA	ELECTROSWITCH	86	LOCKOUT RELAY, MAIN A
86F1	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F1
86F2	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F2
86F3	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F3
86F4	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F4
86F5	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F5
86F6	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F6
86T	ELECTROSWITCH	86	LOCKOUT RELAY, TIE
43	ELECTROSWITCH	43L/R	LOCAL/REMOTE SELECTOR SWITCH
25MA	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER
25T	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER
87LBA	SEL-387L	87, DTT	LINE PROTECTION RELAY, 01-TR-99110A



GENERAL NOTES

1. ALL BREAKERS AND DISCONNECT SWITCHES ARE NORMALLY CLOSED, UNLESS OTHERWISE NOTED.
2. THIS SHEET SPECIFIES WORK FOR THIS PROJECT. THIS SHEET DUPLICATES CONTENT FROM EXISTING SHEET 0800-E612, AS OF 30JULY2022. FOR CONTEXT IN PROJECT WORK. EXISTING WORK IS SHOWN IN FADED LINEWORK.

KEYNOTES

A. EXISTING KIRK KEY MECHANICAL INTERLOCK SHALL PREVENT OPENING OF THE PRIMARY CIRCUIT WHEN SECONDARY BREAKER IS IN THE CLOSED POSITION.

B. EXISTING MICROPROCESSOR RELAY BASED TRANSFER SCHEME TO CONTROL 13.8KV MAIN-TIE-MAIN SWITCHING BETWEEN NORMAL UTILITY AND STANDBY GENERATOR POWER. RELAYS ARE INTERLOCKED ELECTRONICALLY SUCH THAT ONLY ONE SOURCE IS CONNECTED AT ANY TIME, EXCEPT DURING SYNCHRONIZED TRANSFER FROM MAIN CAMPUS STANDBY POWER TO UTILITY POWER ACROSS 52MA.

C. EXISTING INTEGRATED MAIN PLANT AUTOMATIC PARALLELING SYSTEM TO START, RUN, AND LOAD-SHED GENERATORS WITH REALTIME CONTROL SYSTEM INTERCONNECTED WITH PROTECTIVE RELAYS AS REQUIRED TO CONTROL BREAKERS AND RELAY SENSOR MEASUREMENTS, IDENTIFIED WITH "PARALLEL SYS" ANNOTATIONS. EXISTING DATA CONNECTION(S) FOR GENERATOR LOADING INFORMATION FOR SCADA USE.

D. REFERENCE SITE PLAN FOR LOCATION OF SWITCHGEAR AND GENERAL DUCT BANK ROUTING. PROVIDE FEEDER SHOWN FROM PROJECT CAMPUS TO EXISTING SWITCHGEAR AT MAIN CAMPUS.

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

SUBSTATION METER & RELAY DIAGRAM SHEET 1 OF 2

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E602

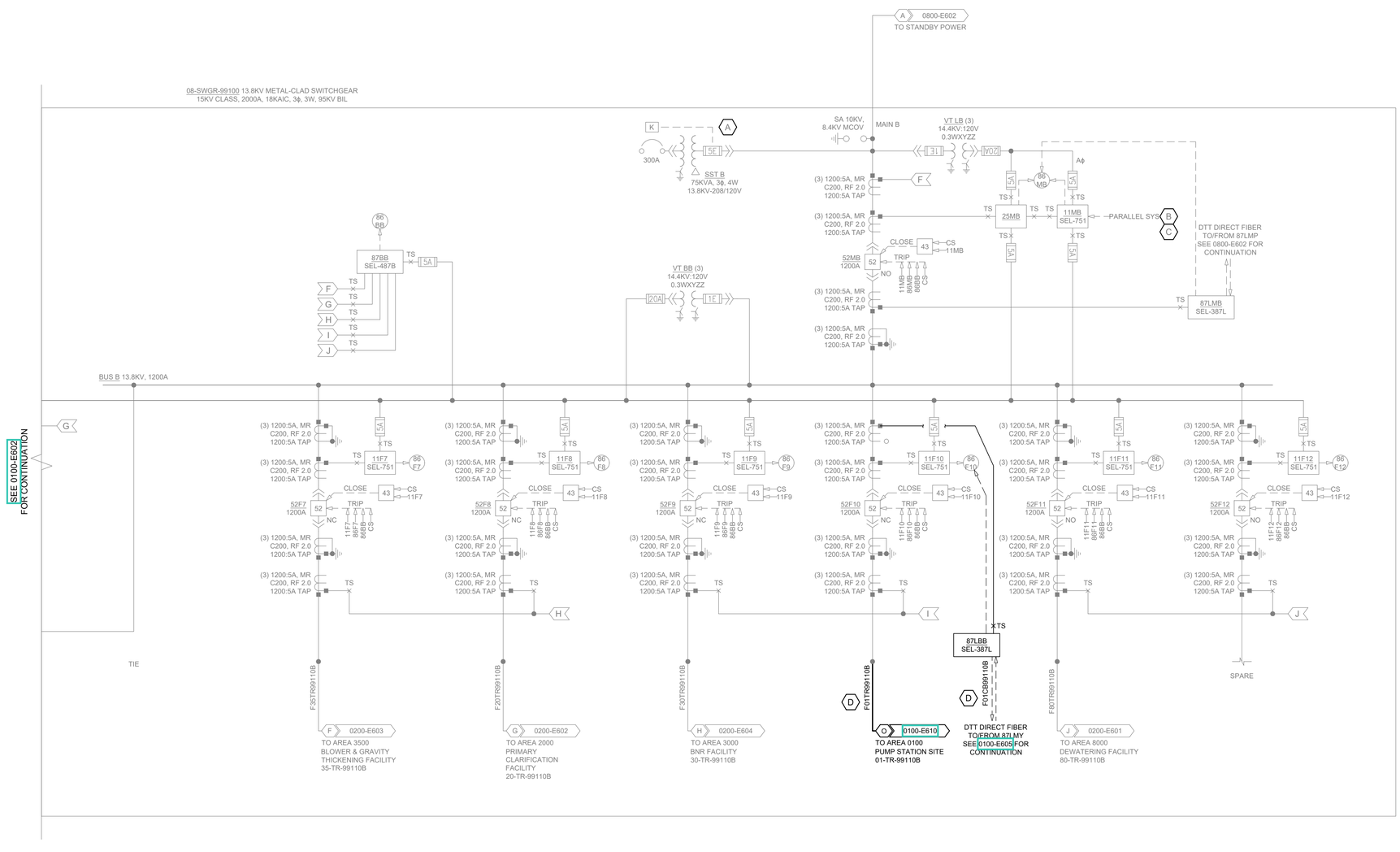
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E602.dwg DATE: 3/30/2023 9:06 AM

DEVICE LEGEND

DEVICE ID	MFR/MODEL	FUNCTION(S)	DESCRIPTION
87BB	SEL-487B	87, 50, 51	BUS PROTECTION RELAY, BUS B
11MB	SEL-751	25, 27, 51, 51G, 59, 50BF	FEEDER PROTECTION RELAY, MAIN B
11F7	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F7
11F8	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F8
11F9	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F9
11F10	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F10
11F11	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F11
11F12	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F12
86BB	ELECTROSWITCH	86	LOCKOUT RELAY, BUS B
86MB	ELECTROSWITCH	86	LOCKOUT RELAY, MAIN B
86F7	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F7
86F8	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F8
86F9	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F9
86F10	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F10
86F11	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F11
86F12	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F12
43	ELECTROSWITCH	43L/R	LOCAL/REMOTE SELECTOR SWITCH
25MB	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER
87LMB	SEL-387L	87, DTT	LINE PROTECTION RELAY, MAIN B
87LBB	**SEL-387L**	**87, DTT**	**LINE PROTECTION RELAY, 01-TR-99110B**



GENERAL NOTES

1. ALL BREAKERS AND DISCONNECT SWITCHES ARE NORMALLY CLOSED, UNLESS OTHERWISE NOTED.
2. THIS SHEET SPECIFIES WORK FOR THIS PROJECT. THIS SHEET DUPLICATES CONTENT FROM EXISTING SHEET 0800-E612, AS OF 30JULY2022. FOR CONTEXT IN PROJECT WORK. EXISTING WORK IS SHOWN IN FADED LINEWORK.

KEYNOTES

A. EXISTING KIRK KEY MECHANICAL INTERLOCK SHALL PREVENT OPENING OF THE PRIMARY CIRCUIT WHEN SECONDARY BREAKER IS IN THE CLOSED POSITION.

B. EXISTING MICROPROCESSOR RELAY BASED TRANSFER SCHEME TO CONTROL 13.8KV MAIN-TIE-MAIN SWITCHING BETWEEN NORMAL UTILITY AND STANDBY GENERATOR POWER. RELAYS ARE INTERLOCKED ELECTRONICALLY SUCH THAT ONLY ONE SOURCE IS CONNECTED AT ANY TIME, EXCEPT DURING SYNCHRONIZED TRANSFER FROM MAIN CAMPUS STANDBY POWER TO UTILITY POWER ACROSS 52MA.

C. EXISTING INTEGRATED MAIN PLANT AUTOMATIC PARALLELING SYSTEM TO START, RUN, AND LOAD-SHED GENERATORS WITH REALTIME CONTROL. SYSTEM INTERCONNECTED WITH PROTECTIVE RELAYS AS REQUIRED TO CONTROL BREAKERS AND RELAY SENSOR MEASUREMENTS, IDENTIFIED WITH "PARALLEL SYS" ANNOTATIONS. EXISTING DATA CONNECTION(S) FOR GENERATOR LOADING INFORMATION FOR SCADA USE.

D. REFERENCE SITE PLAN FOR LOCATION OF SWITCHGEAR AND GENERAL DUCT BANK ROUTING. PROVIDE FEEDER SHOWN FROM PROJECT CAMPUS TO EXISTING SWITCHGEAR AT MAIN CAMPUS.

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A. ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

SUBSTATION METER & RELAY DIAGRAM SHEET 2 OF 2

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E603

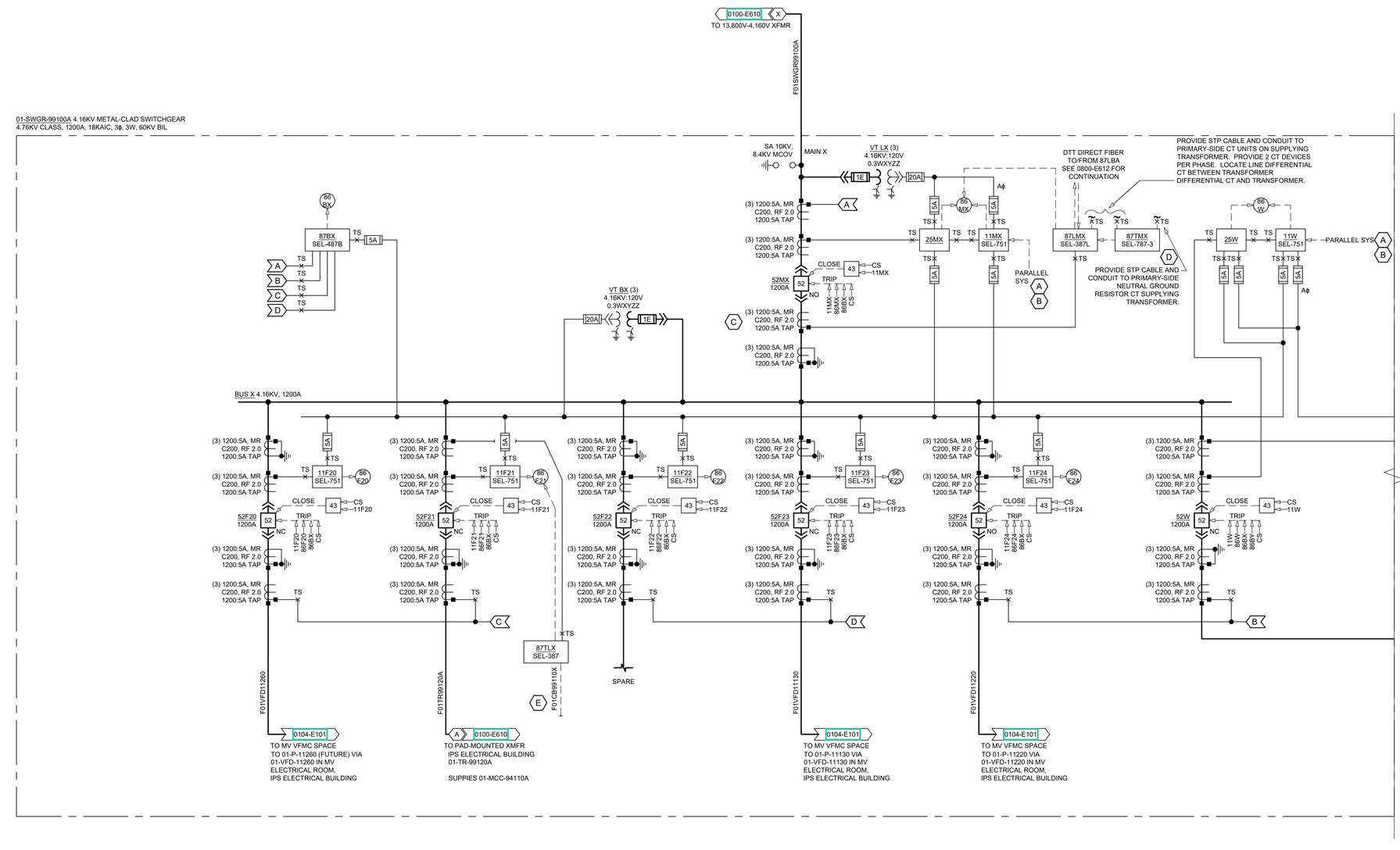
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60072288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E603.dwg DATE: 3/30/2023 9:07 AM

DEVICE LEGEND

DEVICE ID	MFR/MODEL	FUNCTION(S)	DESCRIPTION
87BX	SEL-487B	87, 50, 51	BUS PROTECTION RELAY, BUS X
25MX	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER - MAIN
11MX	SEL-751	25, 27, 51, 51G, 59, 50BF	FEEDER PROTECTION RELAY, MAIN X
87LMX	SEL-387L	87, DTT	LINE DIFFERENTIAL PROTECTION RELAY, MAIN X
87TMX	SEL-387	87	XFMR DIFFERENTIAL PROTECTION RELAY, MAIN X
11F20	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F20
11F21	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F21
11F22	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F22
11F23	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F23
11F24	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F24
11W	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, TIE FEEDER
25W	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER - TIE
86BX	ELECTROSWITCH	86	LOCKOUT RELAY, BUS X
86MX	ELECTROSWITCH	86	LOCKOUT RELAY, MAIN X
86F20	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F20
86F21	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F21
86F22	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F22
86F23	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F23
86F24	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F24
86W	ELECTROSWITCH	86	LOCKOUT RELAY, TIE FEEDER
43	ELECTROSWITCH	43L/R	LOCAL/REMOTE SELECTOR SWITCH
87TLX	SEL-387	87	DIFFERENTIAL PROTECTION RELAY, 01-TR-99120A



GENERAL NOTES

1. ALL BREAKERS AND DISCONNECT SWITCHES ARE NORMALLY CLOSED, UNLESS OTHERWISE NOTED.

KEYNOTES

A. PROVIDE MICROPROCESSOR RELAY BASED TRANSFER SCHEME TO CONTROL 4.16KV MAIN-TIE-MAIN-MAIN SWITCHING BETWEEN NORMAL UTILITIES AND STANDBY GENERATOR POWER. RELAYS SHALL BE INTERLOCKED ELECTRONICALLY SUCH THAT ONLY ONE SOURCE IS CONNECTED AT ANY TIME, EXCEPT DURING SYNCHRONIZED TRANSFER FROM STANDBY POWER TO UTILITY POWER ACROSS EITHER 52MA OR 52MB.

B. PROVIDE AUTOMATIC PARALLELING SYSTEM TO START, RUN, AND LOAD-SHED GENERATORS WITH REALTIME CONTROL. INTERCONNECT THIS SYSTEM WITH PROTECTIVE RELAYS AS REQUIRED TO CONTROL BREAKERS AND RELAY SENSOR MEASUREMENTS, IDENTIFIED WITH "PARALLEL SYS" ANNOTATIONS. PROVIDE DATA CONNECTION FOR GENERATOR LOADING INFORMATION FOR SCADA USE.

C. PROVIDE CURRENT TRANSFORMERS AT SUPPLYING BREAKER TO MATCH CURRENT TRANSFORMERS AT PAD-MOUNTED TRANSFORMER. CONTRACTOR IS RESPONSIBLE FOR ASSURING SENSITIVE CT MATCHING FOR DIFFERENTIAL PROTECTION OF LINE.

D. NOT SHOWN - PROVIDE CABLE AND CONDUIT BETWEEN SEL-787-3 RELAY, AND ASSOCIATED RELAY I/O FEATURES AS REQUIRED TO MONITOR SUPPLYING TRANSFORMER SENSORS AND ASSOCIATED NEUTRAL GROUNDING RESISTOR SENSORS. REFERENCE TRANSFORMER SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

E. NOT SHOWN - PROVIDE CABLE AND CONDUIT BETWEEN SEL-387 RELAY, AND ASSOCIATED RELAY I/O FEATURES AS REQUIRED TO MONITOR SUPPLYED TRANSFORMER SENSORS. REFERENCE TRANSFORMER SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH BY
A	23-04-03	SW-1A ISSUED FOR BID	DB GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

IPS FACILITY METER & RELAY DIAGRAM SHEET 1 OF 2

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E604

SHEET ---- OF ----

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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DEVICE LEGEND

DEVICE ID	MFR/MODEL	FUNCTION(S)	DESCRIPTION
87BY	SEL-487B	87, 50, 51	BUS PROTECTION RELAY, BUS Y
25MY	PER GEN VENDOR	25	PARALLELING SYSTEM TRANSDUCER - MAIN Y
11MY	SEL-751	25, 27, 51, 51G, 59, 50BF	FEEDER PROTECTION RELAY, MAIN Y
87LMX	SEL-387L	87, DTT	LINE DIFFERENTIAL PROTECTION RELAY, MAIN Y
87TMX	SEL-387	87	XFMR DIFFERENTIAL PROTECTION RELAY, MAIN Y
11F30	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F30
11F31	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F31
11F32	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F32
11F33	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F33
11F34	SEL-751	50, 50G, 51, 51G, 50BF	FEEDER PROTECTION RELAY, FEEDER F34
87LBY	SEL-387L	87, DTT	LINE DIFFERENTIAL PROTECTION RELAY, GENERATOR FEEDER
86BY	ELECTROSWITCH	86	LOCKOUT RELAY, BUS Y
86MY	ELECTROSWITCH	86	LOCKOUT RELAY, MAIN Y
86F30	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F30
86F31	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F31
86F32	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F32
86F33	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F33
86F34	ELECTROSWITCH	86	LOCKOUT RELAY, FEEDER F34
43	ELECTROSWITCH	43L/R	LOCAL/REMOTE SELECTOR SWITCH
87TLY	SEL-387	87	DIFFERENTIAL PROTECTION RELAY, 01-TR-99120B

GENERAL NOTES

1. ALL BREAKERS AND DISCONNECT SWITCHES ARE NORMALLY CLOSED, UNLESS OTHERWISE NOTED.

KEYNOTES

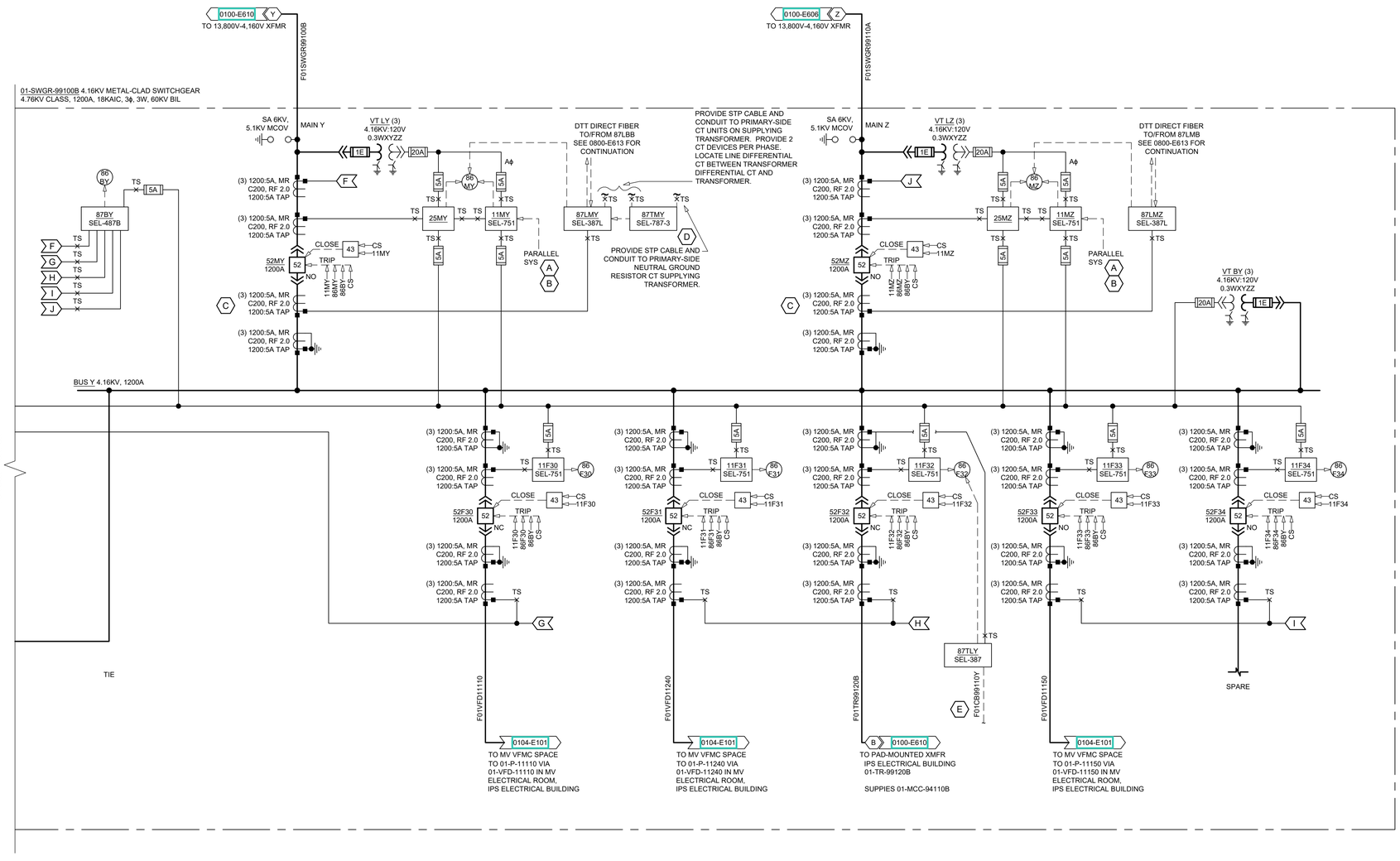
A. PROVIDE MICROPROCESSOR RELAY BASED TRANSFER SCHEME TO CONTROL 4.16KV MAIN-TIE-MAIN-MAIN SWITCHING BETWEEN NORMAL UTILITIES AND STANDBY GENERATOR POWER. RELAYS SHALL BE INTERLOCKED ELECTRONICALLY SUCH THAT ONLY ONE SOURCE IS CONNECTED AT ANY TIME, EXCEPT DURING SYNCHRONIZED TRANSFER FROM STANDBY POWER TO UTILITY POWER ACROSS EITHER 52MA OR 52MB.

B. PROVIDE AUTOMATIC PARALLELING SYSTEM TO START, RUN, AND LOAD-SHED GENERATORS WITH REALTIME CONTROL. INTERCONNECT THIS SYSTEM WITH PROTECTIVE RELAYS AS REQUIRED TO CONTROL BREAKERS AND RELAY SENSOR MEASUREMENTS, IDENTIFIED WITH "PARALLEL SYS" ANNOTATIONS. PROVIDE DATA CONNECTION FOR GENERATOR LOADING INFORMATION FOR SCADA USE.

C. PROVIDE CURRENT TRANSFORMERS AT SUPPLYING BREAKER TO MATCH CURRENT TRANSFORMERS AT PAD-MOUNTED TRANSFORMER. CONTRACTOR IS RESPONSIBLE FOR ASSURING SENSITIVE CT MATCHING FOR DIFFERENTIAL PROTECTION OF LINE.

D. NOT SHOWN - PROVIDE CABLE AND CONDUIT BETWEEN SEL-787-3 RELAY, AND ASSOCIATED RELAY I/O FEATURES AS REQUIRED TO MONITOR SUPPLYING TRANSFORMER SENSORS AND ASSOCIATED NEUTRAL GROUNDING RESISTOR SENSORS. REFERENCE TRANSFORMER SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

E. NOT SHOWN - PROVIDE CABLE AND CONDUIT BETWEEN SEL-387 RELAY, AND ASSOCIATED RELAY I/O FEATURES AS REQUIRED TO MONITOR SUPPLYING TRANSFORMER SENSORS. REFERENCE TRANSFORMER SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.



SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH BY
A	23-04-03	SW-1A ISSUED FOR BID	DB GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

IPS FACILITY METER & RELAY DIAGRAM SHEET 2 OF 2

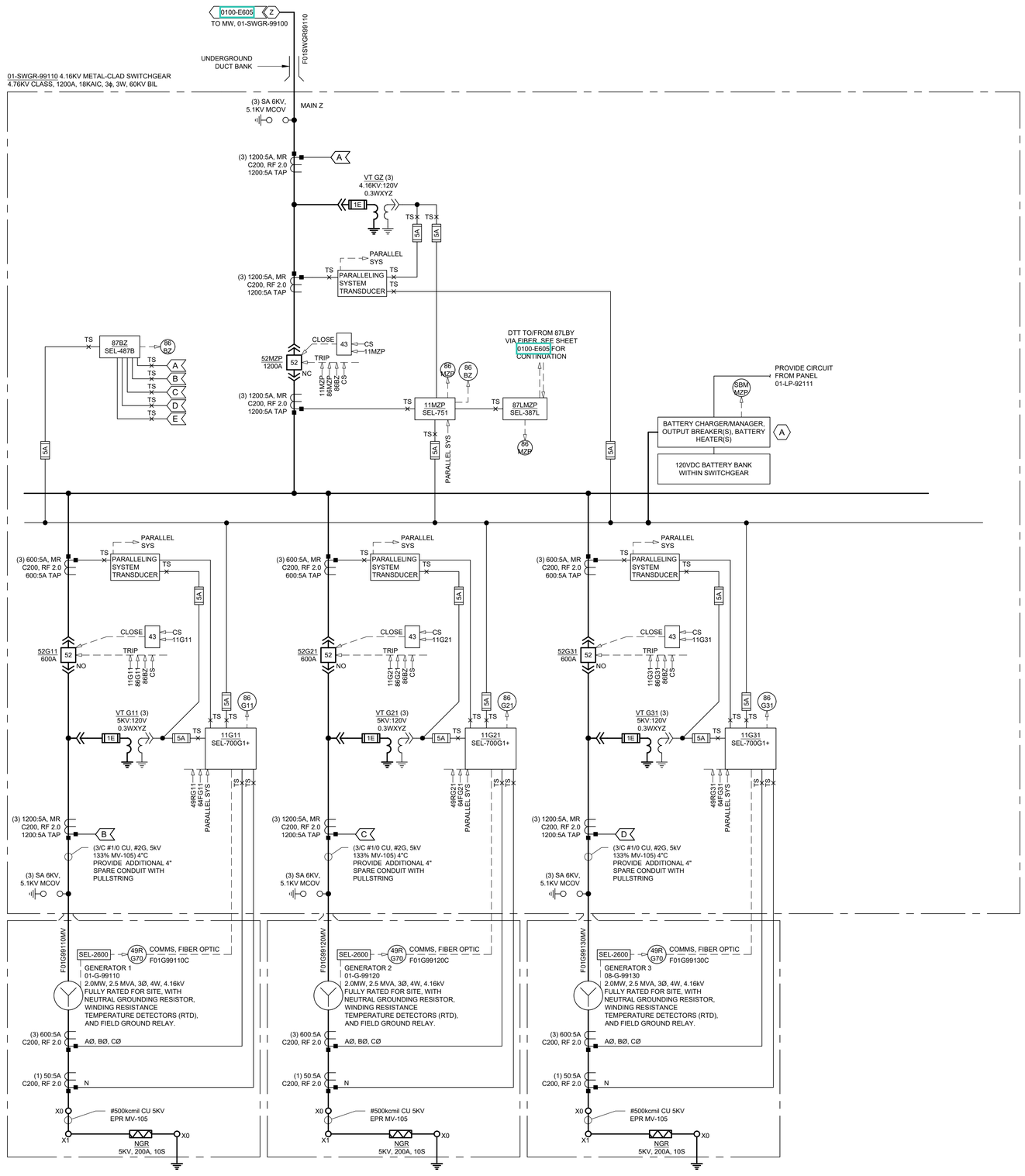
PROFESSIONAL ENGINEER
GLENN GERALD ROSS
No. 12962039-2202
STATE OF UTAH

DRAWING No.
0100-E605

SHEET ---- OF ----

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E605.dwg
DATE: 3/30/2023 9:09 AM



GENERAL NOTES

1. ALL EQUIPMENT AND INSTRUMENT RATINGS, RELAYS, DEVICE FUNCTIONS, TAP SETTINGS, AND SIMILAR INFORMATION IS PRELIMINARY, PENDING RESULTS OF RMP SYSTEM IMPACT STUDY.
2. ALL BREAKERS AND DISCONNECT SWITCHES ARE NORMALLY CLOSED, UNLESS OTHERWISE NOTED.
3. PROVIDE AUTOMATIC PARALLELING SYSTEM TO START, RUN, AND LOAD-SHED GENERATORS WITH REAL-TIME CONTROL, INCLUDING AUTOMATIC SWITCHING BETWEEN GENERATOR AND POWER SOURCED FROM MAIN PLANT SUPPLIES. INTERLOCK RELAY CONTROL SO ONLY ONE SOURCE IS CONNECTED AT ANY ONE TIME. INTERCONNECT THIS SYSTEM WITH PROTECTIVE RELAYS AS REQUIRED TO CONTROL BREAKERS AND RELAY SENSOR MEASUREMENTS, IDENTIFIED WITH "PARALLEL SYS" ANNOTATIONS. PROVIDE DATA CONNECTION FOR GENERATOR LOADING INFORMATION TO SCADA, INCLUDING, BUT NOT LIMITED TO:
   - 3.1. ONLINE Y/N
   - 3.2. KVA OUTPUT
   - 3.3. OIL TEMP
   - 3.4. OIL PRESSURE
   - 3.5. FUEL LEVEL
   - 3.6. COOLANT JACKET TEMPERATURE
4. NOT SHOWN - PROVIDE PLC UNIT WITHIN IPS ELECTRICAL BUILDING AND INTERFACE WITH RELEVANT PROGRAMMED BREAKER INPUTS AND DRY CONTACTS AS REQUIRED TO:
   - 4.1. MONITOR BREAKER POSITION
   - 4.2. MONITOR TRANSDUCER
   - 4.3. SIGNAL CLOSE REQUEST
   - 4.4. SIGNAL OPEN
   - 4.5. TO SHED FEEDER LOADS
5. REFER TO MV PROTECTION RELAY SCHEDULE ON SHEET 0100-E607

KEYNOTES

A. PROVIDE CONTROL POWER FROM BATTERY SYSTEM, INCLUDING OVERCURRENT PROTECTION. PROVIDE SEPARATE OVERCURRENT PROTECTION AS REQUIRED TO ASSURE REDUNDANCY OF EACH GENERATOR BANK.

SCALE: NOT TO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G.ROSS
DRAWN BY:	G.ROSS
CHECKED BY:	C.ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

01-SWGR-99110 SINGLE LINE DIAGRAM

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E606

SHEET —.—.— OF —

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60072288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E606.dwg DATE: 3/30/2023 9:09 AM

DEVICE LEGEND

DEVICE ID	MFR/MODEL	FUNCTION(S)	DESCRIPTION
87BZ	SEL-487B	50, 50BF, 51, 59, 87, STATION BATTERY MONITOR	BUS PROTECTION RELAY, BUS Z, WITH STATION BATTERY MONITOR (SBM)
11MZP	SEL-751	25, 27, 32, 50, 51, 51G, 59, 50BF	FEEDER PROTECTION RELAY, MAIN ZP
11Z11	SEL-700G1+	24, 25G, 27, 27I, 27S, 32, 40, 46, 49R, 50BF, 51N, 51V/C, 59I, 59P, 59Q, 60 LOP, 67G, 81O, 81U, 87, 87N, INADT, REF	GENERATOR PROTECTION RELAY WITH FEEDER PROTECTION ELEMENTS, GENERATOR FEEDER BREAKER Z11
11Z21	SEL-700G1+	24, 25G, 27, 27I, 27S, 32, 40, 46, 49R, 50BF, 51N, 51V/C, 59I, 59P, 59Q, 60 LOP, 67G, 81O, 81U, 87, 87N, INADT, REF	GENERATOR PROTECTION RELAY WITH FEEDER PROTECTION ELEMENTS, GENERATOR FEEDER BREAKER Z21
11Z31	SEL-700G1+	24, 25G, 27, 27I, 27S, 32, 40, 46, 49R, 50BF, 51N, 51V/C, 59I, 59P, 59Q, 60 LOP, 67G, 81O, 81U, 87, 87N, INADT, REF	GENERATOR PROTECTION RELAY WITH FEEDER PROTECTION ELEMENTS, GENERATOR FEEDER BREAKER Z31
86BZ	ELECTROSWITCH	86	LOCKOUT RELAY, BUS Z
86MZP	ELECTROSWITCH	86	LOCKOUT RELAY, MAIN ZP
86Z10	ELECTROSWITCH	86	LOCKOUT RELAY, GENERATOR 01-G-99110
86Z20	ELECTROSWITCH	86	LOCKOUT RELAY, GENERATOR 01-G-99120
86Z30	ELECTROSWITCH	86	LOCKOUT RELAY, GENERATOR 01-G-99130
77Z11	SEL-2600	TELEMETERING OF 49R	01-G-99110 RESISTANCE TEMPERATURE DETECTOR REMOTE TELEMETRY
77Z21	SEL-2600	TELEMETERING OF 49R	01-G-99120 RESISTANCE TEMPERATURE DETECTOR REMOTE TELEMETRY
77Z31	SEL-2600	TELEMETERING OF 49R	01-G-99130 RESISTANCE TEMPERATURE DETECTOR REMOTE TELEMETRY

GENERAL NOTES

1. REFER TO SINGLE-LINE DIAGRAM ON SHEET 0100-E606.

SCALE: NOT TO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

MV PROTECTON RELAY SCHEDULE

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

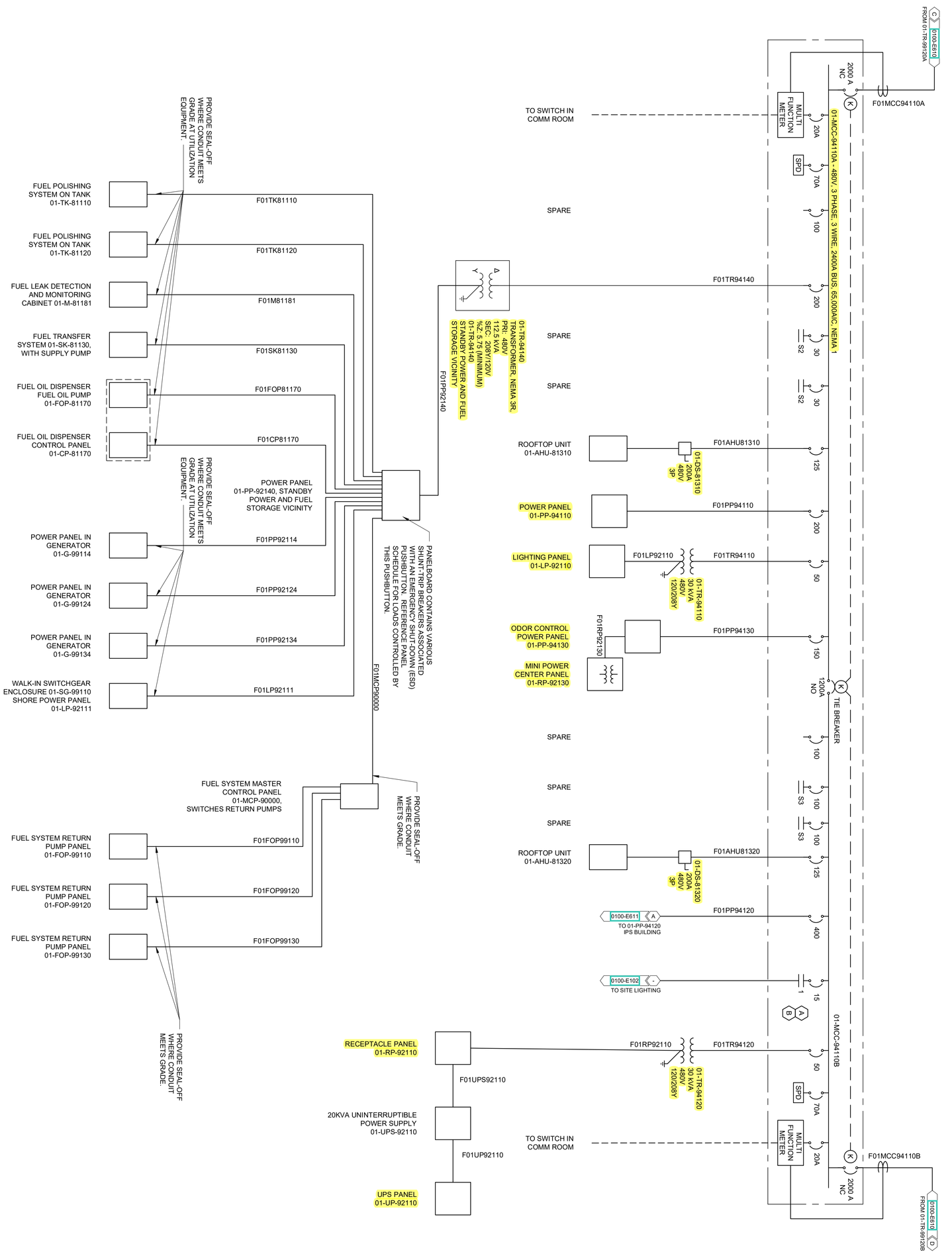
DRAWING No.
0100-E607

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E608.dwg DATE: 3/30/2023 9:13 AM



GENERAL NOTES

1. FEEDERS FROM DISCONNECT SWITCHES TO FINAL EQUIPMENT SHALL MATCH SOURCE FEEDER UNLESS OTHERWISE NOTED.

KEYNOTES

A. PROVIDE ASTRONOMIC TIMECLOCK WITH FEATURES MEETING SPECIFICATIONS AND THE MINIMUM REQUIREMENTS OF IEC2018 SECTION 4.3.3.4.3.1. TIMECLOCK AT SYNCHRONIZED WITH THE TIMECLOCK AT THE IPS BUILDING. ENCLOSE WIRING FOR TIMECLOCK SO NO WIRING ENERGIZED EQUIPMENT IS EXPOSED WITHIN THIS MCC DOOR.

B. PROVIDE THIS COMBINATION STARTER UNIT WITH THE FOLLOWING OPTIONS AND ENHANCEMENTS:

- CONTROL POWER TRANSFORMER (CPT) FOR ASTRONOMIC TIMECLOCK
- RED RUN/ON LIGHT
- STOPPED GREEN/OFF LIGHT
- HAND OFF AUTO SWITCH
- SURGE SUPPRESSOR ON COIL
- SURGE SUPPRESSOR ON STARTER UNIT DOOR
- PROVIDE PROTECTIVE DEVICE FOR LIGHTING LOADS
- PROVIDE CONTACTOR LEADS AND POWER CABLE ROUTED WAY BETWEEN THIS STARTER/OFF AND THE ASTRONOMIC TIMECLOCK.

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

01-MCC-94110A/B
SINGLE LINE DIAGRAM

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

DESIGNED BY: G. ROSS
DRAWN BY: D.BROERMAN
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

SCALE: NOT TO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

SHEET ____ OF ____
DRAWING No: 0100-E608

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG	LAMP TYPE	VOLTAGE (V)	WATTAGE (W)	LUMENS	S	COMMENTS
A1	PROCESS AREA SURFACE MOUNTING LED LUMINAIRE WITH TYPE 5 OPTICAL DISTRIBUTION, NEMA 4X RATING, UPLIGHT REFRACTOR LENS, AND SAFETY CABLE. OPERATING TEMPERATURE RANGE IS FROM -40 TO 65 DEGREES CELCIUS.	EATON / CROUSE-HINDS	PVML-13-N-2TW-UNV1-S831-UPLT-M2	LED	120	95	13,000	4000K	REFERENCE PLANS FOR ORIENTATION AND SUPPORT REQUIREMENTS.
E1	A GENERAL PURPOSE AND ENERGY-EFFICIENT SURFACE-MOUNTED OR SUSPENDED LED FIXTURE, SUITABLE FOR WET, DAMP AND/OR COLD LOCATIONS. CSA CERTIFIED TO UL AND C-UL STANDARDS. LISTED FOR WET LOCATIONS IN AMBIENT TEMPS RANGING FROM -35°C (-31°F) TO 25°C (77°F) WHEN FIXTURE IS SURFACE MOUNTED OR UP TO 45°C (113°F) WHEN SUSPENDED • DUAL VOLTAGE INPUT 120/277VAC, 60HZ • LINE-LATCHING • BROWNOUT CIRCUIT • LOW VOLTAGE DISCONNECT • OVERLOAD/SHORT CIRCUIT PROTECTION • TEST SWITCH/POWER CONNECTOR FACILITATES INSTALLATION • 3.6V, .78W DC LONG LASTING LED HEADS • REMOTE CAPACITY OPTION (H2) POWERS TWO APWR REMOTES	EATON/ COOPER/ SURE-LITES LIGHTING	APELH2	LED	120	0.6	EGRESS	NOT APPLICABLE	
E7	THE LUMARK AXCENT LED WALL MOUNT LUMINAIRE.90-MINUTE BATTERY BACKUP FOR EXIT DISCHARGE LIGHTING. LIGHT FIXTURE CONTAINS PHOTOCELL CONTROL FOR AUTOMATIC DAY/NIGHT CONTROL. OPTIONAL INTEGRAL COLD WEATHER BATTERY EMERGENCY EGRESS INCLUDES EMERGENCY OPERATION TEST SWITCH, AN AC-ON INDICATOR LIGHT AND A PREMIUM, MAINTENANCE-FREE BATTERY PACK. THE SEPARATE EMERGENCY LIGHTING LEDS ARE WIRED TO PROVIDED REDUNDANT EMERGENCY LIGHTING. LISTED TO UL STANDARD 924, EMERGENCY LIGHTING.ONE-PIECE SILICONE GASKET SEALS THE FIXTURE, KEEPING OUT MOISTURE AND DUST IN COMPLIANCE WITH IP66 RATING. THE FXTURE IS 3G VIBRATION RATED (ANSI C136.31) AND UL/CUL LISTED ENSURING RELIABILITY AND DURABILITY IN WALL MOUNT APPLICATIONS.	COOPER LIGHTING	AXCL6A-BK-PC1-CBP	LED	120	56	7,809	4000K	
E8	COMPACT AND DURABLE FIBERGLASS REINFORCED POLYESTER HOUSING WITH 10W 120V EMERGENCY BATTERY PACK • RATED FOR -40C TO 35C AMBIENT • FROSTED LENS / 15% DR HIGH IMPACT ADDITIVE • AVAILABLE IN 4FT WITH LUMEN PACKAGES UP TO 11,000 LUMENS • WET LOCATION AND IP67 LISTED	COOPER LIGHTING	4VT2-LD5-4-FR50-UNV-EL10W-L840-CD1-WL-U	LED	120	30	4,000	4000K	
E9	THE LUMARK AXCENT LED WALL MOUNT LUMINAIRE.90-MINUTE BATTERY BACKUP FOR EXIT DISCHARGE LIGHTING. LIGHT FIXTURE CONTAINS PHOTOCELL CONTROL FOR AUTOMATIC DAY/NIGHT CONTROL. OPTIONAL INTEGRAL COLD WEATHER BATTERY EMERGENCY EGRESS INCLUDES EMERGENCY OPERATION TEST SWITCH, AN AC-ON INDICATOR LIGHT AND A PREMIUM, MAINTENANCE-FREE BATTERY PACK. THE SEPARATE EMERGENCY LIGHTING LEDS ARE WIRED TO PROVIDED REDUNDANT EMERGENCY LIGHTING. LISTED TO UL STANDARD 924, EMERGENCY LIGHTING.ONE-PIECE SILICONE GASKET SEALS THE FIXTURE, KEEPING OUT MOISTURE AND DUST IN COMPLIANCE WITH IP66 RATING. THE FXTURE IS 3G VIBRATION RATED (ANSI C136.31) AND UL/CUL LISTED ENSURING RELIABILITY AND DURABILITY IN WALL MOUNT APPLICATIONS.	COOPER LIGHTING	AXCL12A-BK-PC1-CBP	LED	120	123	17,000 (NOMINAL)	4000K	
F2, F2/E	COMPACT AND DURABLE FIBERGLASS REINFORCED POLYESTER HOUSING • PRECISION OPTICS IN GENERAL, WIDE, OR PARKING GARAGE DISTRIBUTION • HIGH IMPACT POLYCARBONATE OPTICAL LENS • AVAILABLE IN 2FT AND 4FT, WITH LUMEN PACKAGES UP TO 4,000 LUMENS • WET LOCATION AND IP67 LISTED	COOPER LIGHTING	4VT3-LD5-4-G-UNV-L840-CD1-U-	LED	120	49	4000	4000K	
F4, F4/E	COMPACT AND DURABLE FIBERGLASS REINFORCED POLYESTER HOUSING • PRECISION OPTICS IN GENERAL, WIDE, OR PARKING GARAGE DISTRIBUTION • HIGH IMPACT POLYCARBONATE OPTICAL LENS • AVAILABLE IN 2FT AND 4FT, WITH LUMEN PACKAGES UP TO 8,000 LUMENS • WET LOCATION AND IP67 LISTED	COOPER LIGHTING	4VT3-LD5-8-G-UNV-L840-CD1-U-	LED	120	49	8000 (NOMINAL)	4000K	
F5, F5/E	• ULTRA THIN LESS THAN 2" HEIGHT FITS SHALLOW PLENUMS WITH ROOM TO SPARE • MODELS FROM LESS THAN 20W AND HIGH LUMEN MODELS UP TO 7000 LUMENS • HE MODELS AT 136 LUMENS PER WATT DELIVER UP TO 60% ENERGY SAVINGS • STOCK CCT IN 80 CRI @ 3000K, 3500K, 4000K, 5000K AND 90 CRI 3000K	COOPER LIGHTING	22FP4240C-080083833603	LED	120	37.3	4,465 (NOMINAL)	4000K	
S1A	SINGLE HEAD SITE LIGHT MOUNTED ON 25'-0" STEEL POLE	LITHONIA	RSX1 LED P4 30K R2 HVOLT DDBXD	LED	480	166	14,800-17,500	3000K	
S1B	SINGLE HEAD SITE LIGHT MOUNTED ON 25'-0" STEEL POLE	LITHONIA	RSX1 LED P4 30K R3 HVOLT DDBXD	LED	480	166	14,800-17,500	3000K	
S2AA	SINGLE HEAD SITE LIGHT MOUNTED ON 25'-0" STEEL POLE	LITHONIA	(2) RSX1 LED P4 30K R2 HVOLT DDBXD	LED	480	166(332)	14,800-17,500 (29,600-35,000)	3000K	
S2AB	SINGLE HEAD SITE LIGHT MOUNTED ON 25'-0" STEEL POLE	LITHONIA	RSX1 LED P4 30K R2 HVOLT DDBXD RSX1 LED P4 30K R3 HVOLT DDBXD	LED	480	166(332)	14,800-17,500 (29,600-35,000)	3000K	"2" INDICATES R2 DISTRIBUTION SIDE. "3" INDICATES R3 DISTRIBUTION SIDE
S2BB	DOUBLE HEAD SITE LIGHT MOUNTED ON 25'-0" STEEL POLE	LITHONIA	(2) RSX1 LED P4 30K R3 HVOLT DDBXD	LED	480	166(332)	14,800-17,500 (29,600-35,000)	3000K	
EXIT	EXIT SIGN, UL924, WITH INTEGRAL BATTERY, SINGLE OR DUAL-FACED AS REQUIRED, WHITE HOUSING, NOT FOR HAZARDOUS LOCATIONS	SURE-LITES	UX7-[]-WH-SD-_	LED	120V	2	N/A	N/A	GREEN LETTERING

GENERAL NOTES

1. THIS SCHEDULE APPLIES TO THE PROJECT. NOT ALL FIXTURES SHOWN ARE USED FOR EACH BUILDING/FACILITY.

SCALE: NOT TO SCALE

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	ISSUED FOR BID

LAST CONFORMED SET: DB GR

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

LIGHTING FIXTURE SCHEDULE

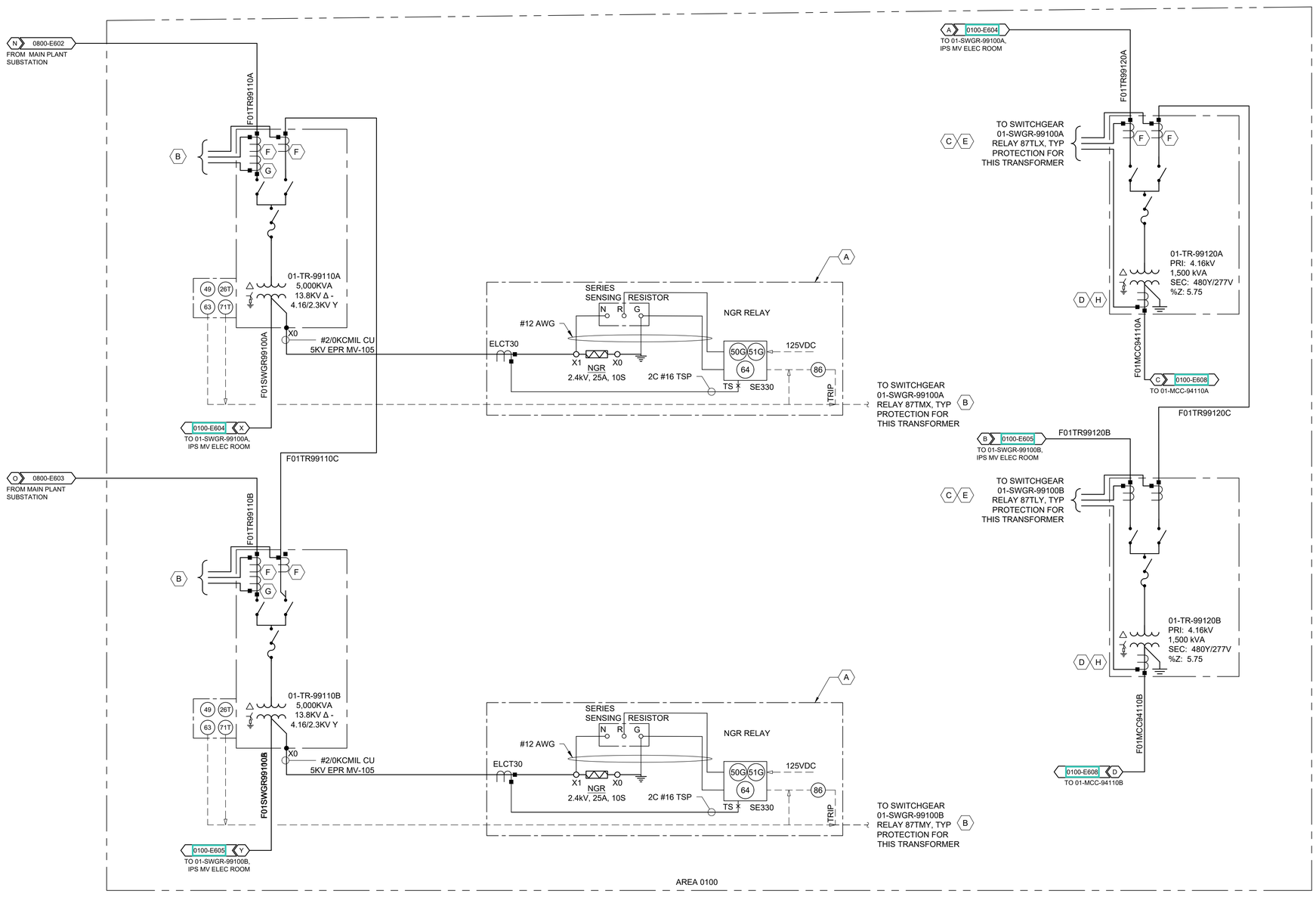
PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E609

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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GENERAL NOTES

1. INSTALL NEUTRAL GROUNDING RESISTOR PROTECTIVE RELAY COMPLIANT WITH RULES 250.36 AND 250.186 OF THE NEC FOR CONTINUOUS MONITORING OF NGR STATUS AND GROUND FAULT CURRENT MONITORING UNIT TO STARCO (LITTELFUSE) SE 330 OR BENDER RC48N. RELAY UNIT SHALL BE COMPATIBLE WITH ALL PROVIDED COMPONENTS (NGR, CT's AND MONITORING RESISTOR).
2. PROVIDE NGR IN NEMA 3R ENCLOSURE LOCATED NEAR OR ON TRANSFORMER AND CONNECT TO X0 OF THE TRANSFORMER.
3. NGR SENSING RESISTOR TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. UNIT TO BE COMPATIBLE WITH NGR TYPE AND SIZE (20kΩ) AND SUITABLE FOR EXTERIOR MOUNT IN A NEMA 3R ENCLOSURE (NEAR OR PART ON NGR UNIT).
4. CONNECT TRANSFORMER ALARMING SIGNALS TO APPROPRIATE SWITCHGEAR (01-SWGR-99100) PROTECTIVE RELAY CABINET.
5. GROUND CABLE SHIELDING AT THE MV SWITCHGEAR END OF THE CT LEADS/FEEDERS ONLY.

KEYNOTES

A. INSTALL THE NGR FOR SYSTEM AS PART OF THE SWITCHGEAR (01-SWGR-99100) INSTALLATION AND PROTECTION RELAYS.

B. HARDWIRE TRANSFORMER ALARM STATUS AND NGR ALARMING AND TRIP SIGNALS TO THE APPROPRIATE SWITCHGEAR (01-SWGR-99110) PROTECTIVE RELAY. REFERENCE SHEETS 0100-E604 AND 0100-E605 FOR RELEVANT PROTECTIVE RELAYS.

C. HARDWIRE TRANSFORMER ALARMS TO PROTECTIVE RELAY THAT MONITORS BREAKER SUPPLYING THIS TRANSFORMER IN SWITCHGEAR 01-SWGR-99100.

D. AT CONTRACTOR'S OPTION, CT SET MAY BE LOCATED IN MCC, IF CONDUIT, LEADS, AND FEEDERS ARE ADJUSTED ACCORDINGLY.

E. PROGRAM RELAY PROTECTING 1.5MVA TRANSFORMER TO:
* PROVIDE DIFFERENTIAL PROTECTION FOR TRANSFORMER.
* PROVIDE OVERCURRENT AND TIME-OVERCURRENT PROTECTION OF THE FEEDERS EXTENDING FROM THE SECONDARY SIDE OF THE 1.5 MVA TRANSFORMER.

F. (3)300:5A, MR, C200, RF2.0

G. (3)1200:5A, MR, C200, RF2.0

H. (3)2000:5A, MR, C200, RF2.0

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A, ISSUED FOR BID	DB GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

PRIMARY POWER DISTRIBUTION SINGLE LINE DIAGRAM

PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS

DRAWING No.
0100-E610

SHEET ---- OF ----

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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GENERAL NOTES

1. FEEDERS FROM DISCONNECT SWITCHES TO FINAL EQUIPMENT SHALL MATCH SOURCE FEEDER, UNLESS OTHERWISE NOTED. REFERENCE PLANS FOR ADDITIONAL REQUIREMENTS.

SCALE: NTS

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

10-PP-94120

SINGLE LINE DIAGRAM

PROFESSIONAL ENGINEER
GLENN GERALD ROSS
No. 12962039-2202
STATE OF UTAH

DRAWING No.
0100-E611

SHEET ---- OF - - -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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FEEDER SCHEDULE

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-CTC-90301 IPS ELECTRICAL BUILDING MAIN CTC CABINET	F0111_1002	EXISTING IPS COMM RM.	01-LIU-91350	24-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	4"	COMM
01-AHU-81310	F01AHU81310	01-MCC-94110A	01-AHU-81310	3#1, #6G	2"	POWER
01-AHU-81320	F01AHU81320	01-MCC-94110B	01-AHU-81320	3#1, #6G	2"	POWER
08-SWGR-99100A 87LBA SEL-387L	F01CB99110A (Fiber)	08-SWGR-99100A	01-SWGR-99100A	12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	0100-E102	CONTROL
08-SWGR-99100B 87LBB SEL-387L	F01CB99110B (Fiber)	08-SWGR-99100B	01-SWGR-99100B	12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	0100-E102	CONTROL
01-CP-81170	F01CP81170	01-PP-92140	01-CP-81170	2#12, #12G	1"	POWER
CURRENT TRANSFORMER LEADS FOR PROTECTION OF 01-TR-99110A AND LINE FROM SW-2.	F01CT99100A	01-SWGR-99100A	01-TR-99110A	3 CABLES, EACH 6/C #10 SHIELDED TRAY CABLE, #10 GND	3"	CONTROL
CURRENT TRANSFORMER LEADS FOR PROTECTION OF 01-TR-99110B AND LINE FROM SW-2.	F01CT99100B	01-SWGR-99100B	01-TR-99110B	3 CABLES, EACH 6/C #10 SHIELDED TRAY CABLE, #10 GND	3"	CONTROL
CURRENT TRANSFORMER LEADS FOR PROTECTION OF 01-TR-99120A	F01CT99100X	01-SWGR-99100A	01-TR-99120A	3 CABLES, EACH 6/C #10 SHIELDED TRAY CABLE, #10 GND	3"	CONTROL
CURRENT TRANSFORMER LEADS FOR PROTECTION OF 01-TR-99120B	F01CT99100Y	01-SWGR-99100B	01-TR-99120B	3 CABLES, EACH 6/C #10 SHIELDED TRAY CABLE, #10 GND	3"	CONTROL
01-CTC-90302, CTC WITHIN IPS PUMP BUILDING	F01CTC90302	01-CTC-90301	01-CTC-90302	12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	0100-E102	COMMUNICATIONS
01-DS-94111	F01DS94111	01-PP-94120	01-DS-94111	3#8, #8G	1"	POWER
01-EWH-71010	F01EWH71010	01-PP-94120	01-EWH-71010	3#8, #8G	1"	POWER
01-F-81410	F01F81410	01-VFD-81410	01-F-81410	1-3/C #8 VFD CABLE	2"	POWER
01-F-81420	F01F81420	01-VFD-81420	01-F-81420	1-3/C #8 VFD CABLE	2"	POWER
01-FCV-11101	F01FCV11101	01-PP-94120	01-FCV-11101	3#2/0, #4G	2"	POWER
01-FCV-11112	F01FCV11112	01-PP-94121	01-FCV-11112	3#12, #12G	1"	POWER
01-FCV-11132	F01FCV11132	01-PP-94121	01-FCV-11132	3#12, #12G	1"	POWER
01-FCV-11152	F01FCV11152	01-PP-94121	01-FCV-11152	3#12, #12G	1"	POWER
01-FCV-11201	F01FCV11201	01-PP-94120	01-FCV-11201	3#2/0, #4G	2"	POWER
01-FCV-11222	F01FCV11222	01-PP-94121	01-FCV-11222	3#12, #12G	1"	POWER
01-FCV-11242	F01FCV11242	01-PP-94121	01-FCV-11242	3#12, #12G	1"	POWER
01-FCV-11262	F01FCV11262	01-PP-94121	01-FCV-11262	PULLSTRING	1"	POWER
01-FCV-11412	F01FCV11412	01-PP-94121	01-FCV-11412	3#12, #12G	1"	POWER
01-FCV-11422	F01FCV11422	01-PP-94121	01-FCV-11422	3#12, #12G	1"	POWER
01-FCV-11431	F01FCV11431	01-PP-94121	01-FCV-11431	3#12, #12G	1"	POWER
01-FIT-10101 (EXISTING FLOWMETER IN MH)	F01FIT10101	01-UP-92110	01-FIT-10101	3/C #8AWG TC-ER WET RATED	0100-E102	POWER
01-FIT-10101 (EXISTING FLOWMETER IN MH)	F01FIT10101C	01-CP-90100	01-FIT-10101	3/C #8AWG TC-ER WET RATED	0100-E102	CONTROL
01-FIT-10301 (EXISTING FLOWMETER IN MH)	F01FIT10301	01-UP-92110	01-FIT-10301	3/C #8AWG TC-ER WET RATED	0100-E102	POWER

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-FIT-10301 (EXISTING FLOWMETER IN MH)	F01FIT10301C	01-CP-90100	01-FIT-10301	3/C #8AWG TC-ER WET RATED	0100-E102	CONTROL
01-FIT-10501 (EXISTING FLOWMETER IN MH)	F01FIT10501	01-RP-92111	01-FIT-10501	3/C #8AWG TC-ER WET RATED	0100-E102	POWER
01-FIT-10501 (EXISTING FLOWMETER IN MH)	F01FIT10501C	01-CP-90100	01-FIT-10501	3/C #8AWG TC-ER WET RATED	0100-E102	CONTROL
01-FOD-81170	F01FOP81170	01-PP-92140	01-FOD-81170	2#10, #10G	1"	POWER
01-FOP-99110	F01FOP99110	01-MCP-90000	01-FOP-99110	2#10, #10G	1"	POWER
01-FOP-99120	F01FOP99120	01-MCP-90000	01-FOP-99120	2#10, #10G	1"	POWER
01-FOP-99130	F01FOP99130	01-MCP-90000	01-FOP-99130	2#10, #10G	1"	POWER
01-LCP-11000, I&C MARSHALLING AT IPS PUMP BUILDING	F01LCP11000	01-CP-90100	01-LCP-11000	ALL CABLES ON 0100-E601, INSTRUMENT LOOP DIAGRAMS, AND OTHERWISE IN IPS PUMP BUILDING REQUIRING CONNECTION TO PLC.	0100-E102	CONTROL
01-LP-92110	F01LP92110	01-TR-94110	01-LP-92110	4#3, #8G	1 1/2"	POWER
01-M-81181	F01M81181	01-PP-92140	01-M-81181	2#12, #12G	1"	POWER
01-M-98765 (GATE ACTUATOR)	F01M98765	01-PP-94110	01-M-98765	3/C #8AWG TC-ER WET RATED	0100-E102	POWER
01-M-98765 (GATE ACTUATOR)	F01M98765	01-CTC-90301	01-M-98765	12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	0100-E102	CONTROL
01-MAU-81210	F01MAU81210	01-PP-94121	01-MAU-81210	3#10, #10G	3/4"	POWER
01-MCC-94110A	F01MCC94110A	01-TR-99120A	01-MCC-94110A	6 RUNS, 3#400kcmil, #250kcmil G	(6) 4"	POWER
01-MCC-94110B	F01MCC94110B	01-TR-99120B	01-MCC-94110B	6 RUNS, 3#400kcmil, #250kcmil G	(6) 4"	POWER
01-MCP-90000	F01MCP90000	01-PP-92140	01-MCP-90000	2#4, #8G	1 1/4"	POWER
01-P-11110	F01P11110	01-VFD-11110	01-P-11110	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-P-11130	F01P11130	01-VFD-11130	01-P-11130	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-P-11150	F01P11150	01-VFD-11150	01-P-11150	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-P-11220	F01P11220	01-VFD-11220	01-P-11220	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-P-11240	F01P11240	01-VFD-11240	01-P-11240	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-P-11260	F01P11260	01-VFD-11260	01-P-11260	(PULLSTRING, THREADED COUPLING/PLUG	0100-E102	MV POWER
01-P-71010	F01P71010	01-PP-94120	01-P-71010	3#12, #12G	1"	POWER
01-P-71020	F01P71020	01-PP-94120	01-P-71020	3#12, #12G	1"	POWER
01-PP-94110	F01PP94110	01-MCC-94110A	01-PP-94110	3#3/0, #6G	3"	POWER
01-PP-94121	F01PP94121	01-PP-94120	01-PP-94121	3#1, #6G.	1-1/2"	POWER
01-PP-94130	F01PP94130	01-MCC-94110A	01-PP-94130	3#1/0, #6G	2 1/2"	POWER
01-RP-92111	F01RP92111	01-TR-92111	01-RP-92111	4#1, #6G	1-1/2"	POWER
01-RP-92130	F01RP92130	01-PP-94130	01-RP-92130	2#12, #12G	3/4"	POWER
01-SK-81130	F01SK81130	01-PP-92140	01-SK-81130	2#10, #10G	1"	POWER

GENERAL NOTES

1. FEEDERS FROM DISCONNECT SWITCHES TO FINAL EQUIPMENT SHALL MATCH SOURCE FEEDER, UNLESS OTHERWISE NOTED.
2. REFERENCE 0100-X### SERIES SHEETS AND SPECIFICATION 23 15 25 FOR ADDITIONAL INFORMATION ON MOTOR SIZES, CONFIGURATION, AND SYSTEM REQUIREMENTS OF THE GENERATOR FUELING SYSTEM.
3. PROVIDE ACCESS CONTROL, GENERATOR CONTROL, GENERATOR INSTRUMENTATION, AND FUEL SYSTEM CONNECTIONS IN CONDUIT, AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. NOT ALL REQUIREMENTS MAY BE SHOWN, AS REQUIREMENTS MAY VARY BY MANUFACTURER.

SCALE: NOT TO SCALE

PROJECT ADDRESS: 1365 W 2300 N SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

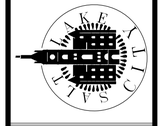
REVISIONS

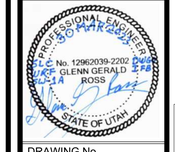
NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

FEEDER SCHEDULE
SHEET 1 OF 3





DRAWING No.
0100-E695

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:18 AM

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E695.dwg

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-RP-92110	F01RP92110	01-TR-94120	01-RP-92110	4#3, #8G	1 1/2"	POWER
01-RP-92111	F01RP92111	01-TR-92111	01-RP-92111	4#1, #6G	1-1/2"	POWER
01-RP-92130	F01RP92130	01-PP-94130	01-RP-92130	2#12, #12G	3/4"	POWER
01-SK-81130	F01SK81130	01-PP-92140	01-SK-81130	2#10, #10G	1"	POWER
01-SWGR-99100A	F01SWGR99100A	01-TR-99110A	01-SWGR-99100A	5 RUNS@3#350KCMIL, #350KCMIL G, 5KV CABLE	6 RUNS@ 4" (1 SPARE)	MV POWER
01-SWGR-99100B	F01SWGR99100B	01-TR-99110B	01-SWGR-99100B	5 RUNS@3#350KCMIL, #350KCMIL G, 5KV CABLE	6 RUNS@ 4"	MV POWER
01-TK-81110	F01TK81110	01-PP-92140	01-TK-81110	2#12, #12G	1"	POWER
01-TK-81120	F01TK81120	01-PP-92140	01-TK-81120	2#12, #12G	1"	POWER
01-TR-94110	F01TR94110	01-MCC-94110A	01-TR-94110	3#6, #10G	1"	POWER
01-TR-94111	F01TR94111	01-PP-94120	01-TR-94111	3#4, #6G	1-1/4"	POWER
01-TR-94120	F01TR94120	01-MCC-94110B	01-TR-94120	3#6, #10G	1"	POWER
01-TR-94140	F01TR94140	01-MCC-94110A	01-TR-94140	3#3/0, #6G	3"	POWER
01-TR-99110A	F01TR99110A	08-SWGR-99100A	01-TR-99110A	3#500KCMIL, #3/0G, 15KV CABLE	0100-E102	MV POWER
01-TR-99110B	F01TR99110B	08-SWGR-99100B	01-TR-99110B	3#500KCMIL, #3/0G, 15KV CABLE	0100-E102	MV POWER
01-TR-99110A/B	F01TR99110C	F01TR99110A	F01TR99110B	3#500KCMIL, #3/0G, 15KV CABLE	0100-E102	MV POWER
01-TR-99120A	F01TR99120A	08-SWGR-99100A	01-TR-99120A	1 RUN 3#250KCMIL, #250KCMIL G, 5KV CABLE	2 RUNS @ 5" (1 SPARE)	MV POWER
01-TR-99120B	F01TR99120B	08-SWGR-99100B	01-TR-99120B	1 RUN 3#250KCMIL, #250KCMIL G, 5KV CABLE	2 RUNS @ 5" (1 SPARE)	MV POWER
01-TR-99120A/B	F01TR99120C	F01TR99120A	F01TR99120B	1 RUN 3#250KCMIL, #250KCMIL G, 5KV CABLE	2 RUNS @ 5" (1 SPARE)	MV POWER
01-UP-92110	F01UP92110	01-UPS-92110	01-UP-92110	4#3, #8G	1 1/2"	POWER
01-UPS-92110	F01UPS92110	01-RP-92110	01-UPS-92110	4#4, #8G	1 1/2"	POWER
01-VFD-11110	F01VFD11110	01-SWGR-99100B	01-VFD-11110	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-VFD-11130	F01VFD11130	01-SWGR-99100A	01-VFD-11130	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-VFD-11150	F01VFD11150	01-SWGR-99100B	01-VFD-11150	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-VFD-11220	F01VFD11220	01-SWGR-99100A	01-VFD-11220	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-VFD-11240	F01VFD11240	01-SWGR-99100B	01-VFD-11240	(3#2/0, 1#4 G) 5kV@133%/8kV@100% MV-105 3/C+G CABLE WITH OVERALL SHIELD	0100-E102	MV POWER
01-VFD-11260	F01VFD11260	01-SWGR-99100A	01-VFD-11260	(PULLSTRING, THREADED COUPLING/PLUG	0100-E102	MV POWER
01-VFD-81410	F01VFD81410	01-PP-94120	01-VFD-81410	3#8, #10G	1"	POWER
01-VFD-81420	F01VFD81420	01-PP-94120	01-VFD-81420	3#8, #10G	1"	POWER
01-CTC-90301 IPS ELECTRICAL BUILDING MAIN CTC CABINET	F3503_1002	SEE PLANS	01-LIU-91350	24-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	4"	COMM
SITE LIGHTING, TYP.	N/A	SOURCE	LIGHT POLE	#8 2C+G WET RATED TC-ER	1" MIN	POWER

FEEDER SCHEDULE

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-CP-99110 GENERATOR SYNCHRONIZING CONTROLLER	F01CP99110C	01-CP-99110 PARALLELING CTL. PANEL.	TO NETWORK SWITCH IN 01-CTC-90100	2 CAT6 CABLES, RJ-45 TERMINATIONS, OR PER MANUFACTURER REQUIREMENTS WHERE NOT ETHERNET.	2"	CONTROL
01-CP-99110Z PARALLELING REMOTE CP	F01CP99110Z	01-CP-99110 PARALLELING CTL. PANEL.	01-CP-99100Z REMOTE SWGR CONTROL PANEL IN ELEC BLDG	FIBER OPTIC CABLE, PER MANUFACTURER INSTALLATION REQUIREMENTS	4"	CONTROL
01-CTC-90100	F01CTC90100C	01-CTC-90100	01-CTC-90301, IPS ELEC BLDG	12-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	4" VIA DUCT BANK	COMM
01-CTC-90100	F01CTC90100C	01-CTC-90100	01-CTC-90301, IPS ELEC BLDG	PULLSTRING (SPARE CONDUIT)	4" VIA DUCT BANK	COMM
01-EPO-81000 EPO, WITH TEL POWER	F01EPO81000	01-PP-92140	01-EPO-81000	4#10, #10G	1"	POWER
01-FOD-81170 PAN SENSOR	F01FOD81170DP	01-FOD-81170	01-M-81181	#16 STP	1/2" RMC	CONTROL
01-FOD-81170 HOOK SENSOR, PUMP LEADS	F01FOD81170HK	01-FOD-81170	01-M-81181	4#10, #10G	3/4"	POWER
01-FOD-81170 MAGNETOSTRICTIVE SENSOR	F01FOD81170MS	01-FOD-81170	01-M-81181	#16 STP	1/2" RMC	CONTROL
01-FV-81113 FUEL TANK SELECT VALVE	F01FV81113	01-SK-81130	01-FV-81113	2#12, #12G	3/4"	POWER
01-FV-81114 FUEL TANK SELECT VALVE	F01FV81114	01-SK-81130	01-FV-81114	2#12, #12G	3/4"	POWER
01-FV-81123 FUEL TANK SELECT VALVE	F01FV81123	01-SK-81130	01-FV-81123	2#12, #12G	3/4"	POWER
01-FV-81124 FUEL TANK SELECT VALVE	F01FV81124	01-SK-81130	01-FV-81124	2#12, #12G	3/4"	POWER
01-G-99110	F01G99110C	01-CP-99110 PARALLELING CTL. PANEL.	01-G-99110	PROVIDE INTERCONNECTION BETWEEN GENERATOR AND DIGITAL MASTER CONTROLLER PER MANUFACTURER REQUIREMENTS	3"	CONTROL
01-G-99110	F01G99110MV	01-SWGR-99110	01-G-99110	2 RUNS, 3#500kcmil AL, #1/0 AL G, 5KV CONDUCTORS	0105-E101	MV POWER
01-G-99110	F01G99110P	01-CP-99110 PARALLELING CTL. PANEL.	01-G-99110	PROVIDE LOAD BALANCING CONNECTIONS PER MANUFACTURER REQUIREMENS	2"	CONTROL
01-G-99120	F01G99120C	01-CP-99110 PARALLELING CTL. PANEL.	01-G-99120	PROVIDE INTERCONNECTION BETWEEN GENERATOR AND DIGITAL MASTER CONTROLLER PER MANUFACTURER REQUIREMENTS	3"	CONTROL
01-G-99120	F01G99120MV	01-SWGR-99110	01-G-99120	2 RUNS, 3#500kcmil AL, #1/0 AL G, 5KV CONDUCTORS	0105-E101	MV POWER
01-G-99120	F01G99120P	01-G-99110	01-G-99120	PROVIDE LOAD BALANCING CONNECTIONS PER MANUFACTURER REQUIREMENS	2"	CONTROL
01-G-99130	F01G99130C	01-CP-99110 PARALLELING CTL. PANEL.	01-G-99130	PROVIDE INTERCONNECTION BETWEEN GENERATOR AND DIGITAL MASTER CONTROLLER PER MANUFACTURER REQUIREMENTS	3"	CONTROL
01-G-99130	F01G99130MV	01-SWGR-99110	01-G-99130	2 RUNS, 3#500kcmil AL, #1/0 AL G, 5KV CONDUCTORS	0105-E101	MV POWER
01-G-99130	F01G99130P	01-G-99120	01-G-99130	PROVIDE LOAD BALANCING CONNECTIONS PER MANUFACTURER REQUIREMENS	2"	CONTROL
01-LCP-81115 FUEL POLISHING	F01LCP81115	01-PP-92140	01-LCP-81115	2#10, #10G	1"	POWER
01-LCP-81125 FUEL POLISHING	F01LCP81125	01-PP-92140	01-LCP-81125	2#10, #10G	1"	POWER
01-LP-92111 01-SWGR-99110 LOADS PANEL	F01LP92111	01-PP-92140	01-LP-92111	4#1, #4G	1-1/2"	POWER
01-LS-99110 / CONTAINMENT LEAK SW	F01LS99110C	01-MCP-90000, VIA 01-FOP-99110	01-MCP-90000, VIA 01-FOP-99110 SWITCH	#16 STP	3/4"	CONTROL

GENERAL NOTES

1. FEEDERS FROM DISCONNECT SWITCHES TO FINAL EQUIPMENT SHALL MATCH SOURCE FEEDER, UNLESS OTHERWISE NOTED.
2. REFERENCE 0100-X### SERIES SHEETS AND SPECIFICATION 23 15 25 FOR ADDITIONAL INFORMATION ON MOTOR SIZES, CONFIGURATION, AND SYSTEM REQUIREMENTS OF THE GENERATOR FUELING SYSTEM.
3. PROVIDE ACCESS CONTROL, GENERATOR CONTROL, GENERATOR INSTRUMENTATION, AND FUEL SYSTEM CONNECTIONS IN CONDUIT, AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. NOT ALL REQUIREMENTS MAY BE SHOWN, AS REQUIREMENTS MAY VARY BY MANUFACTURER.

SCALE: NOT TO SCALE

PROJECT ADDRESS: 1365 W 2300 N SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-IA	ISSUED FOR BID
			DB
			GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

FEEDER SCHEDULE
SHEET 2 OF 3

PROFESSIONAL ENGINEER
30 MAR 2023
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E696

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

FILE: L:\Secure_DCS\Projects_TECHNOLOGY\60572288 - Salt Lake City Reclamation WTP\900-CAD-GIS\20-SHEETS\524905350_0100-E696.dwg DATE: 3/30/2023 9:18 AM

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-LS-99120 / CONTAINMENT LEAK SW	F01LS99120C	01-MCP-90000, VIA 01-FOP-99110	01-MCP-90000, VIA 01-FOP-99110 SWITCH	#16 STP	3/4"	CONTROL
01-LS-99130 / CONTAINMENT LEAK SW	F01LS99130C	01-MCP-90000, VIA 01-FOP-99110	01-MCP-90000, VIA 01-FOP-99110 SWITCH	#16 STP	3/4"	CONTROL
01-G-92110 SHORE POWER PANEL	F01PP92114	01-PP-92140	01-PP-92114	3#1, #6G	2"	POWER
01-G-92120 SHORE POWER PANEL	F01PP92124	01-PP-92140	01-PP-92124	3#1, #6G	2"	POWER
01-G-92130 SHORE POWER PANEL	F01PP92134	01-PP-92140	01-PP-92134	3#1, #6G	2"	POWER
01-M-81181 POWER - LEAK DETECTION CP	F01M81181	01-PP-92140	01-M-81181	2#12, 1#12G, 1#12 BARRIER-G	1-1/2"	POWER
01-M-81181	F01M81181C	01-M-81181	01-CTC-90100	CAT 6 CABLE	1-1/4" C.	CONTROL
01-MCP-90000 FUEL SYSTEM MASTER CP	F01MCP90000	01-PP-92140	01-MCP-90000	2#4, #8G	1-1/4"	POWER
01-MCP-90000	F01MCP90000C	01-SWGR-99110	01-MCP-90000	CAT6, #8 GND	1-1/4"	CONTROL
01-PP-92140 0105 AREA PANELBOARD	F01PP92140	01-TR-94140	01-PP-92140	2 SETS (4#3/0, #4G)	(2) 2-1/2"	POWER
01-PP-92140 SHUNT TRIP TRIGGER	F01PP92140C	01-M-81181	01-PP-92140	#16 STP 600V-RATED	SHARE CDT	CONTROL
01-PP-92140 LEAK DETECTION SENSOR	F01PP92140D	01-M-81181	01-PP-92140	#16 STP 600V-RATED	SHARE CDT	CONTROL
01-SK-81130 FUEL TRANSFER SKID	F01SK81130	01-PP-92140	01-SK-81130	2#8, #8G	1"	POWER
01-SK-81130	F01SK81130C	01-SWGR-99110	01-M-81181	36 CABLES, EACH #16 STP	(3) 2" C.	CONTROL
01-SK-99110 RETURN FUEL PUMP	F01SK99110	01-MCP-90000	01-SK-99110	2#10, #10G	1"	POWER
01-SK-99110 / BELLY TANK FLOATS	F01SK99110C	01-SK-99110	01-G-99110 FLOATS	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-SK-99110 / MCP I/O, PASS-THROUGH	F01SK99110C	01-MCP-90000	01-SK-99110	5 CABLES, EACH #16 STP, AND MANUFACTURER RECOMMENDED CABLE(S)	1-1/2"	CONTROL
01-SK-99120 RETURN FUEL PUMP	F01SK99120	01-MCP-90000	01-SK-99120	2#10, #10G	1"	POWER
01-SK-99120 / BELLY TANK FLOATS	F01SK99120C	01-SK-99120	01-G-99120 FLOATS	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-SK-99120 / MCP I/O, PASS-THROUGH	F01SK99120C	01-MCP-90000	01-SK-99120	5 CABLES, EACH #16 STP, AND MANUFACTURER RECOMMENDED CABLE(S)	1-1/4"	CONTROL
01-SK-99130 RETURN FUEL PUMP	F01SK99130	01-MCP-90000	01-SK-99130	2#10, #10G	1"	POWER
01-SK-99130 / BELLY TANK FLOATS	F01SK99130C	01-SK-99130	01-G-99130 FLOATS	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-SK-99130 / MCP I/O, PASS-THROUGH	F01SK99130C	01-MCP-90000	01-SK-99130	5 CABLES, EACH #16 STP, AND MANUFACTURER RECOMMENDED CABLE(S)	1-1/4"	CONTROL
01-SOL-99113	F01SOL99113	01-MCP-90000	01-SOL-99113	2#12, #12G	3/4"	POWER
01-SOL-99114	F01SOL99114	01-MCP-90000	01-SOL-99114	2#12, #12G	3/4"	POWER

EQUIPMENT	FEEDER TAG	FROM	TO	WIRE	CONDUIT SIZE	PURPOSE
01-SOL-99133	F01SOL99133	01-MCP-90000	01-SOL-99133	2#12, #12G	3/4"	POWER
INDIVIDUAL CONTROL RELAYS WITHIN 01-SWGR-99100A	F01SWGR99100AT	01-CTC-90301	01-SWGR-99100A	CONTENTS OF F0802_F0104A, PULLSTRING	3"	CONTROL
INDIVIDUAL CONTROL RELAYS WITHIN 01-SWGR-99100B	F01SWGR99100BT	01-CTC-90301	01-SWGR-99100B	CONTENTS OF F0802_F0104B, PULLSTRING	3"	CONTROL
01-SWGR-99100A LOADSHED MONITORING AND CONTROL	F01SWGR99101A	01-CP-99100Z REMOTE SWGR CONTROL PANEL IN ELEC BLDG	01-SWGR-99100A	MULTI-CONDUCTOR / MULTI-PAIR CABLE FOR BREAKER CONTROL AND RELAY MONITORING, PER GENERATOR SYSTEM MANUFACTURER SPECIFICATIONS	3"	CONTROL
01-SWGR-99100B LOADSHED MONITORING AND CONTROL	F01SWGR99101B	01-CP-99100Z REMOTE SWGR CONTROL PANEL IN ELEC BLDG	01-SWGR-99100B	MULTI-CONDUCTOR / MULTI-PAIR CABLE FOR BREAKER CONTROL AND RELAY MONITORING, PER GENERATOR SYSTEM MANUFACTURER SPECIFICATIONS	3"	CONTROL
01-SWGR-99110	F01SWGR99110	01-SWGR-99100	01-SWGR-99110	4 RUNS, 3#500kcmil AL, #4/0 AL G, 5KV CONDUCTORS	0100-E102, 0104-E100	MV POWER
01-TEL-81000	F01TEL81000	01-EPO-81000	01-TEL-81000	2#10, #10G	1"	CONTROL
01-TEL-81000	F01TEL81000C	01-TEL-81000	01-CTC-90100	2-STRAND SM OS2 ARMORED OSP FIBER OPTIC CABLE	1-1/4"	COMM
01-TK-81110 OVERFILL ALARM	F01TK81110AH	01-M-81111	01-TK-81110	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81110 SUMP SENSOR @ SK-81130	F01TK81110DS	01-M-81111	01-SK-81130	#16/3 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81110 INTERSTITIAL LEAK SENSOR	F01TK81110IK	01-M-81111	01-TK-81110	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81110 LEVEL SWITCHES	F01TK81110LS	01-LCP-81115	01-TK-81110	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-TK-81110 LEVEL SENSORS	F01TK81110LT	01-MCP-90000	01-TK-81110	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-TK-81110 MAGNETOSTRICTIVE PROBE	F01TK81110MP	01-M-81111	01-TK-81110	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81110 MAGNETOSTRICTIVE SENSOR	F01TK81110MS	01-M-81111	01-TK-81110	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81110 LINE LEAK SENSOR @ SK-81130	F01TK81110QS	01-M-81111	01-SK-81130	#16/3 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 OVERFILL ALARM	F01TK81120AH	01-M-81111	01-TK-81120	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 SUMP SENSOR @ SK-81130	F01TK81120DS	01-M-81111	01-SK-81130	#16/3 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 INTERSTITIAL LEAK SENSOR	F01TK81120IK	01-M-81111	01-TK-81120	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 LEVEL SWITCHES	F01TK81120LS	01-LCP-81125	01-TK-81120	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-TK-81120 LEVEL SENSORS	F01TK81120LT	01-MCP-90000	01-TK-81120	4 CABLES, EACH #16 STP	1-1/4"	CONTROL
01-TK-81120 MAGNETOSTRICTIVE PROBE	F01TK81120MP	01-M-81111	01-TK-81120	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 MAGNETOSTRICTIVE SENSOR	F01TK81120MS	01-M-81111	01-TK-81120	#16/2 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TK-81120 LINE LEAK SENSOR @ SK-81130	F01TK81120QS	01-M-81111	01-SK-81130	#16/3 INTRINSICALLY-SAFE, SHLD	1/2" RMC.	CONTROL
01-TR-94140	F01TR94140	01-MCC-94110A	01-TR-94140	3#3/0, 1#6GND	2"	POWER

GENERAL NOTES

1. FEEDERS FROM DISCONNECT SWITCHES TO FINAL EQUIPMENT SHALL MATCH SOURCE FEEDER, UNLESS OTHERWISE NOTED.
2. REFERENCE 0100-X### SERIES SHEETS AND SPECIFICATION 23 15 25 FOR ADDITIONAL INFORMATION ON MOTOR SIZES, CONFIGURATION, AND SYSTEM REQUIREMENTS OF THE GENERATOR FUELING SYSTEM.
3. PROVIDE ACCESS CONTROL, GENERATOR CONTROL, GENERATOR INSTRUMENTATION, AND FUEL SYSTEM CONNECTIONS IN CONDUIT, AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. NOT ALL REQUIREMENTS MAY BE SHOWN, AS REQUIREMENTS MAY VARY BY MANUFACTURER.

SCALE: NOT TO SCALE

PROJECT ADDRESS: 1365 W 2300 N SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A ISSUED FOR BID	DB	GR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
PUMP STATION SITE

FEEDER SCHEDULE
SHEET 3 OF 3

SALT LAKE CITY

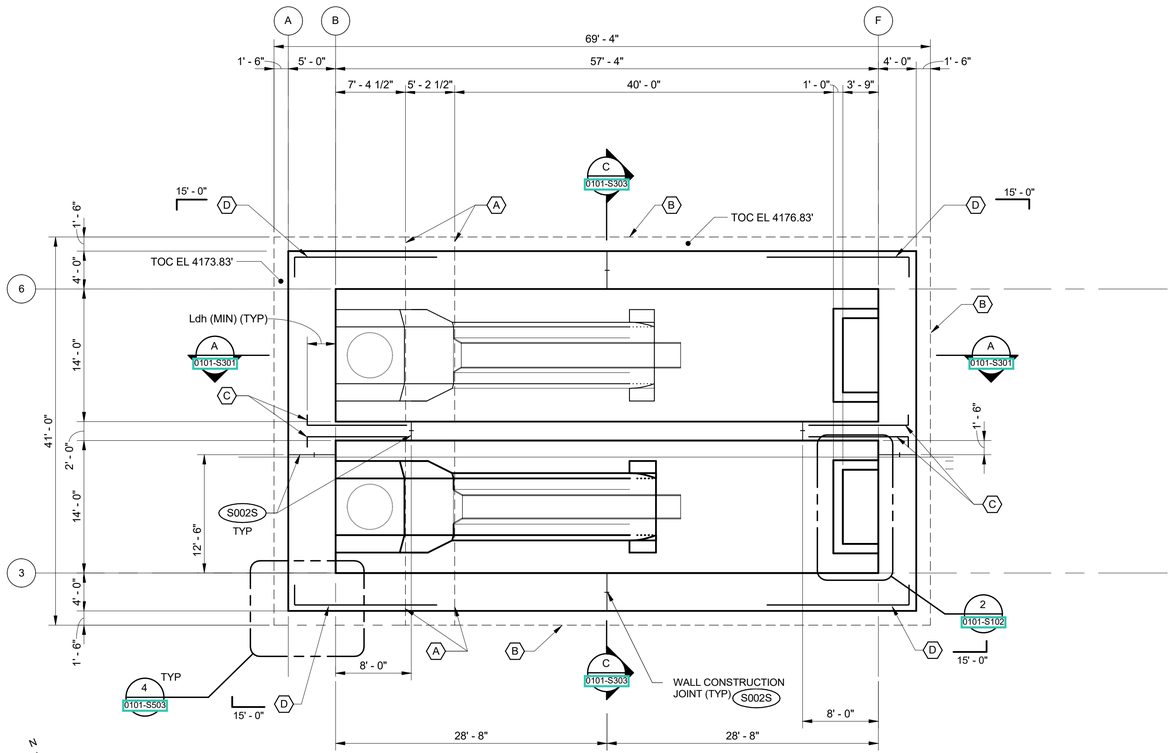
PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0100-E697

SHEET ____ OF ____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ALL WET WELL SLAB AND WALL CONCRETE SHALL BE CLASS A.
2. ALL BEAM AND BUILDING FLOOR SLAB CONCRETE SHALL BE CLASS A1.
3. LEAK TESTING PROCEDURE:
   a. PHASE 1: UPON COMPLETION OF WALL CONSTRUCTION TO ELEVATION 4200.50', THE WET WELL SHALL BE LEAK TESTED TO ELEVATION 4199.50'. BACKFILL SHALL NOT BE IN PLACE AGAINST WALLS DURING LEAK TESTING PHASE 1.
   b. UPON THE ENGINEER ACCEPTED COMPLETION OF LEAK TESTING PHASE 1, INCLUDING ANY REQUIRED CONCRETE REPAIRS, BACKFILL MAY BE INSTALLED TO ELEVATION 4199.50' MAX.
   c. PHASE 2: UPON COMPLETION OF WALL CONSTRUCTION TO THE NEXT HORIZONTAL CONSTRUCTION JOINT (APPROXIMATELY ELEVATION 4215.00'), PHASE 2 LEAK TESTING MAY COMMENCE TO ELEVATION 4214.00'.
   d. UPON THE ENGINEER ACCEPTED COMPLETION OF PHASE 2 LEAK TESTING INCLUDING ANY REQUIRED CONCRETE REPAIRS, BACKFILLING MAY BE INSTALLED TO EL 4214.00'.
   e. DURING LEAK TESTING PHASE 1 AND 2 EACH CELL OF THE WET WELL SHALL BE LEAK TESTED SIMULTANEOUSLY. AT NO POINT MAY THE DIFFERENTIAL WATER LEVEL BETWEEN EACH CELL EXCEED 8'-0" DURING LEAK TESTING PROCEDURES.
   f. PHASE 3: PHASE 3 LEAK TESTING WILL TEST THE CENTRAL 2'-0" THICK WALL AFTER COMPLETION OF LEAK TESTING PHASES 1 AND 2. LEAK TEST EACH CELL INDEPENDENTLY TO EL 4196.00'.
   g. ALL CONSTRUCTED WALLS SHALL REACH THE SPECIFIED DESIGN STRENGTH PRIOR TO STARTING EACH PHASE OF LEAK TESTING.
4. COAT INTERIOR SURFACES OF THE WET WELL WITH 100% EPOXY COATING. SEE SPEC 09 91 13. EXTENTS: ALL INTERIOR WET WELL SURFACES INCLUDING GROUT AND UNDERSIDE OF TOP DECK, WITH THE EXCEPTION OF THE HORIZONTAL FLOOR SURFACE OF GROUT DOWNSTREAM FROM THE OGEE CURVE.

KEYNOTES

A. BASE SLAB TRANSITION

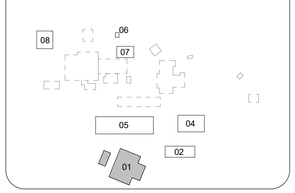
B. EDGE OF BASE SLAB

C. FOR FULL HEIGHT OF 2'-0" THICK WALL, PROVIDE #9@12" ADDITIONAL BARS LOCATED BETWEEN TYPICAL WALL HORIZONTAL BARS FOR A NET SPACING OF 6". EXTEND ADDITIONAL BARS TO CONSTRUCTION JOINTS AS SHOWN.

D. FOR FULL HEIGHT OF WALLS, PROVIDE #11@6" OUTSIDE CORNER BAR WHERE INDICATED. LAP WITH TYPICAL #9@6" HORIZONTAL BARS.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID LAST CONFORMED SET:	RP	SP

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

FOUNDATION PLAN AND DETAIL

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

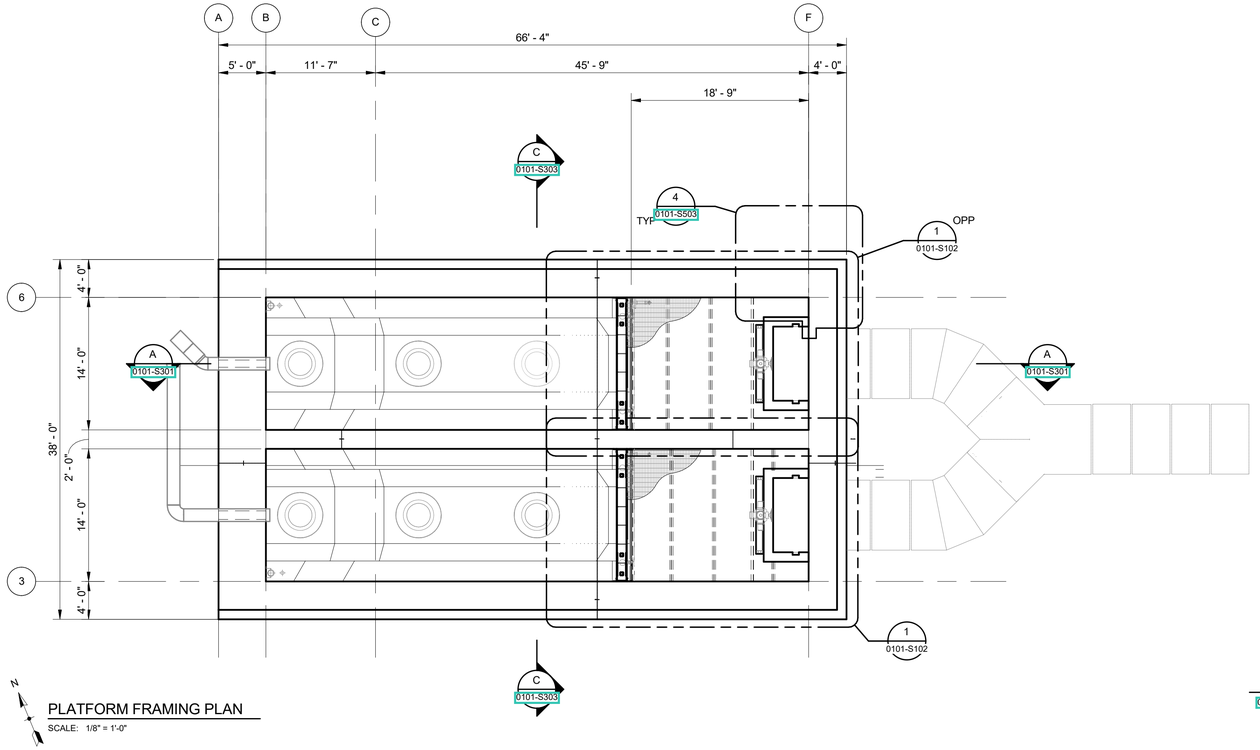
DRAWING No.
0101-S101

SHEET _____ OF _____

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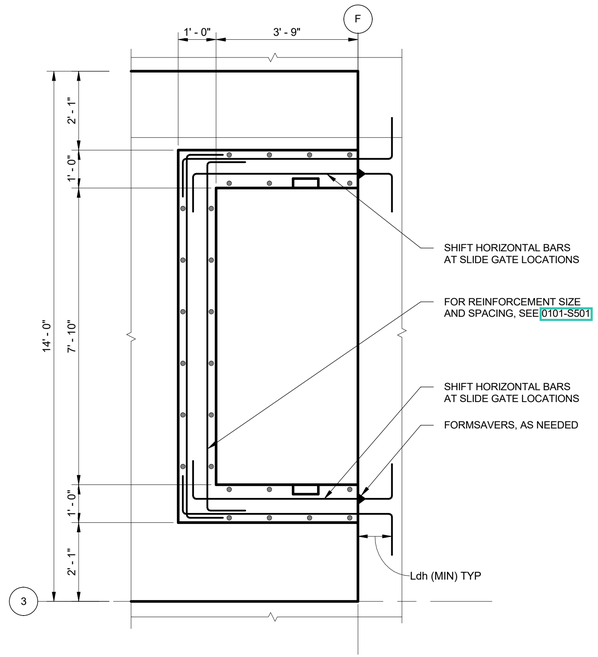
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N

PLATFORM FRAMING PLAN

SCALE: 1/8" = 1'-0"



2 | DETAIL
0101-S101 | SCALE: 1/2" = 1'-0"

KEYNOTES

A. FRP GRATING. SEE SPECIFICATION SECTION 06 60 10.

B. FRP RAILING. SEE SPECIFICATION SECTION 06 60 10.

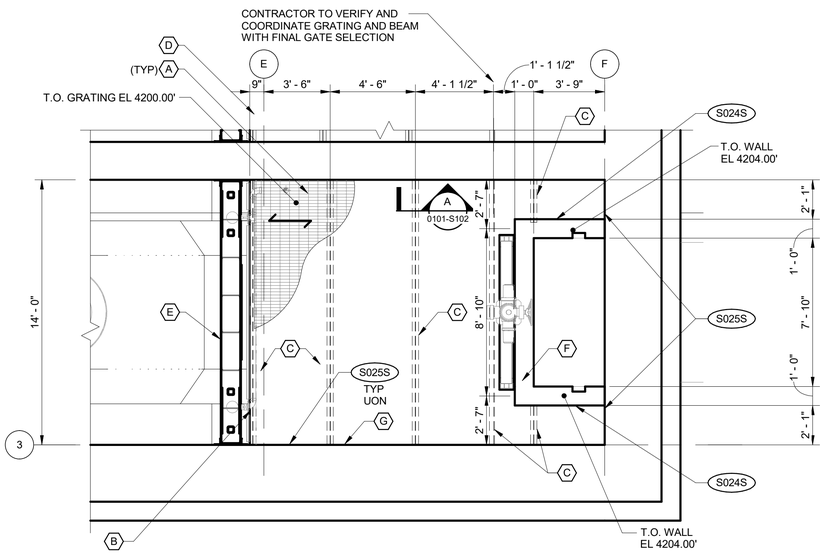
C. FRP SUPPORT BEAM. SEE SPECIFICATION SECTION 06 60 10.

D. EDGE OF GRATING.

E. STAINLESS STEEL INFLUENT BAFFLE. SEE A/0101-S505.

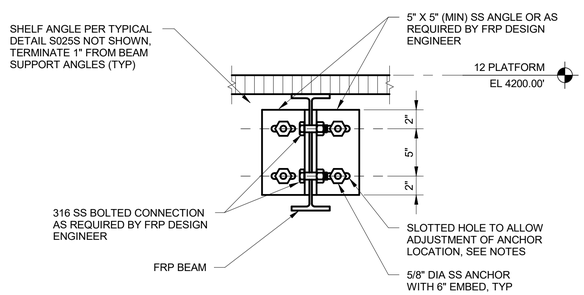
F. EXTEND PORTION OF CONCRETE WALL SHOWN TO EL 4204.00'.

G. CONTRACTOR TO VERIFY AND COORDINATE THE REQUIREMENTS OF THE CONCRETE EPOXY COATING SYSTEM WITH THE INSTALLATION OF THE FRP PLATFORM.



N

1 | DETAIL
0101-S102 | SCALE: 1/4" = 1'-0"



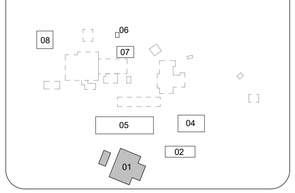
NOTES:

1. CONTRACTOR TO SCAN WALL REINFORCEMENT TO DETERMINE LOCATIONS PRIOR TO INSTALLING ANCHORS. IF DRILLING INTO REINFORCEMENT CANNOT BE PREVENTED, NOTIFY THE ENGINEER FOR DIRECTION PRIOR TO INSTALLING ANCHORS.
2. ALL FRP COMPONENTS ARE TO BE DESIGNED BY THE FRP DELEGATED DESIGN ENGINEER, SEE SPECIFICATION 06 60 10.

FRP BEAM TO WALL
A | CONNECTION DETAIL
0101-S102 | SCALE: 1 1/2" = 1'-0"

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-IA	ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PLATFORM FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

DRAWING No.
0101-S102

SHEET _____ OF _____

VERIFY SCALE! BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:30:52 AM

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PIER SCHEDULE				
MARK	SIZE	TOP OF CONCRETE	REINFORCEMENT	REMARKS
P1	2' - 4" x 2' - 4" x 6' - 6"	-	(8) #5 VERT ⌐ #4@8" TIES	(3) #4 TIES IN TOP 12"

NOTE:

1. PLACE COLUMN ANCHOR RODS IN ACCORDANCE WITH FINAL ENGINEER ACCEPTED PEMB SHOP DRAWINGS. COLUMN ANCHOR RODS SHALL BE INSTALLED USING A TEMPLATE TO ENSURE PROPER POSITIONING AND RESTRAINT DURING CONCRETE PLACEMENT.

KEYNOTES

A. PIPE SUPPORT. SEE 1/0101-S503.

B. CONCRETE BEAM BELOW FLOOR SLAB,TYP.

C. 1' - 0" THICK SLAB FOR EXTENTS OUTSIDE OF WET WELL. REINFORCE WITH #6@12" EW T & B. T & B BARS IN THE SLAB ARE IN THE EAST - WEST DIRECTION. OMIT N/S BARS WHERE TYPICAL T- BEAM REINFORCEMENT IS PROVIDED.

D. 2' - 0" THICK SLAB FOR EXTENTS OF WET WELL. REINFORCE WITH # 6@12" EW TOP AND #9@12" EW BOTTOM. T & B BARS IN THE SLAB ARE IN THE EAST - WEST DIRECTION. OMIT TOP BARS WHERE TYPICAL T-BEAM REINFORCEMENT IS PROVIDED.

E. 18" THICK CONCRETE FOOTING. REINFORCE WITH #7 @ 10" OC EW T&B.

F. 18" THICK CONCRETE FOOTING. REINFORCE WITH #7 @ 10" OC EW T&B.

G. DISHED SLAB DEPRESSION AT FLOOR DRAIN. DEPRESS SLAB BARS TO MAINTAIN 1½" CLEAR COVER MIN.

H. STAINLESS STEEL COVER PLATE OVER OPENING FOR FUTURE PUMP. SEE DETAIL S023S. ALL PLATES AND ANGLES SHALL BE 316 AND 316L STAINLESS STEEL.

J. CONCRETE PUMP PAD, SEE DETAIL 1 AND SECTION A ON 0101-S504.

K. 4' - 0" X 4' - 0" HATCH. SEE ARCHITECTURAL.

L. STAINLESS STEEL COVER PLATE, SEE DETAIL S023S. ALL PLATES AND ANGLES SHALL BE 316 AND 316L STAINLESS STEEL.

M. PIPE SUPPORT. SEE 2/0101-S503.

N. PIPE SUPPORT. SEE 3/0101-S503.

O. ADDITIONAL REINFORCEMENT AROUND SLAB PENETRATIONS NOT SHOWN, SEE DETAIL S001S, TYP.

P. PEMB COLUMN, TYP.

Q. CONCRETE PIER P1 BELOW PEMB COLUMN, TYP. SEE DETAIL 5/0101-S504.

R. CONCRETE PEDESTAL ON FOOTING EXTENDING TO EL. 4221.50' PROVIDE 6" EDGE DISTANCE FROM ARCH ENCLOSURE. REINFORCE WITH #4 @ 12" OC EACH FACE.

S. 40" DIA DUCT, SEE HVAC MECHANICAL DRAWINGS.

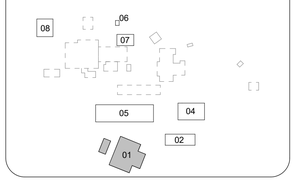
T. PIPE SUPPORT. 4/0101-S504. TYP.

U. PROVIDE (1) #5 HAIRPIN BAR AT EVERY PEMB COLUMN. ALL HAIRPIN BARS ARE NOT SHOWN FOR CLARITY. SEE DETAIL F/0101-S505.

V. PROVIDE (6)-#6 ADDITIONAL BARS FOR A NET SPACING OF 6", CENTERED AT PIPE HEADER.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



MAIN LEVEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: -
EWO NO: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

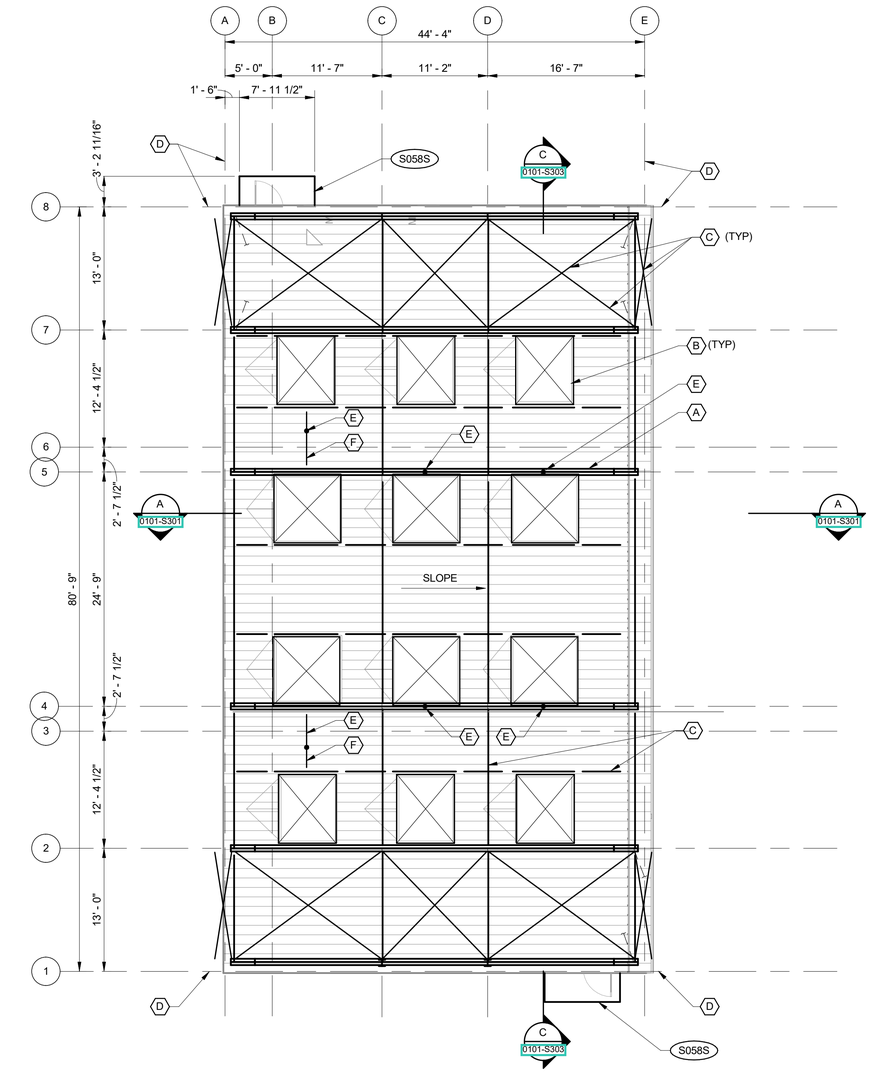
DRAWING No.
0101-S103

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:30:56 AM

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ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

KEYNOTES

A. PRE-ENGINEERED METAL BUILDING. SEE SPECIFICATION 13 34 19.

B. ROOF OPENING, SEE ARCHITECTURAL.

C. BUILDING SUPPLIER TO PROVIDE ROOF LATERAL BRACING SYSTEM AS REQUIRED TO ACCOMMODATE REMOVABLE SKYLIGHTS. BRACING SHALL NOT OBSTRUCT SKYLIGHT OPENINGS.

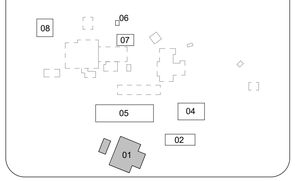
D. EDGE OF PEMB WALL GIRTS.

E. PICKING POINT LOCATION ON UNDERSIDE OF PEMB ROOF CENTERED OVER ARVS TO BE DESIGNED FOR A GRAVITY LIVE LOAD EQUAL TO 1k (ULT) BY PEMB ENGINEER. CONTRACTOR TO VERIFY AND COORDINATE LOCATIONS. SEE TYPICAL DETAIL S035 FOR LIFT LUG.

F. PEMB ENGINEER TO PROVIDE ADDITIONAL ROOF FRAMING SUPPORTING PICK POINT LOCATIONS AND LOADS.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

ROOF FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

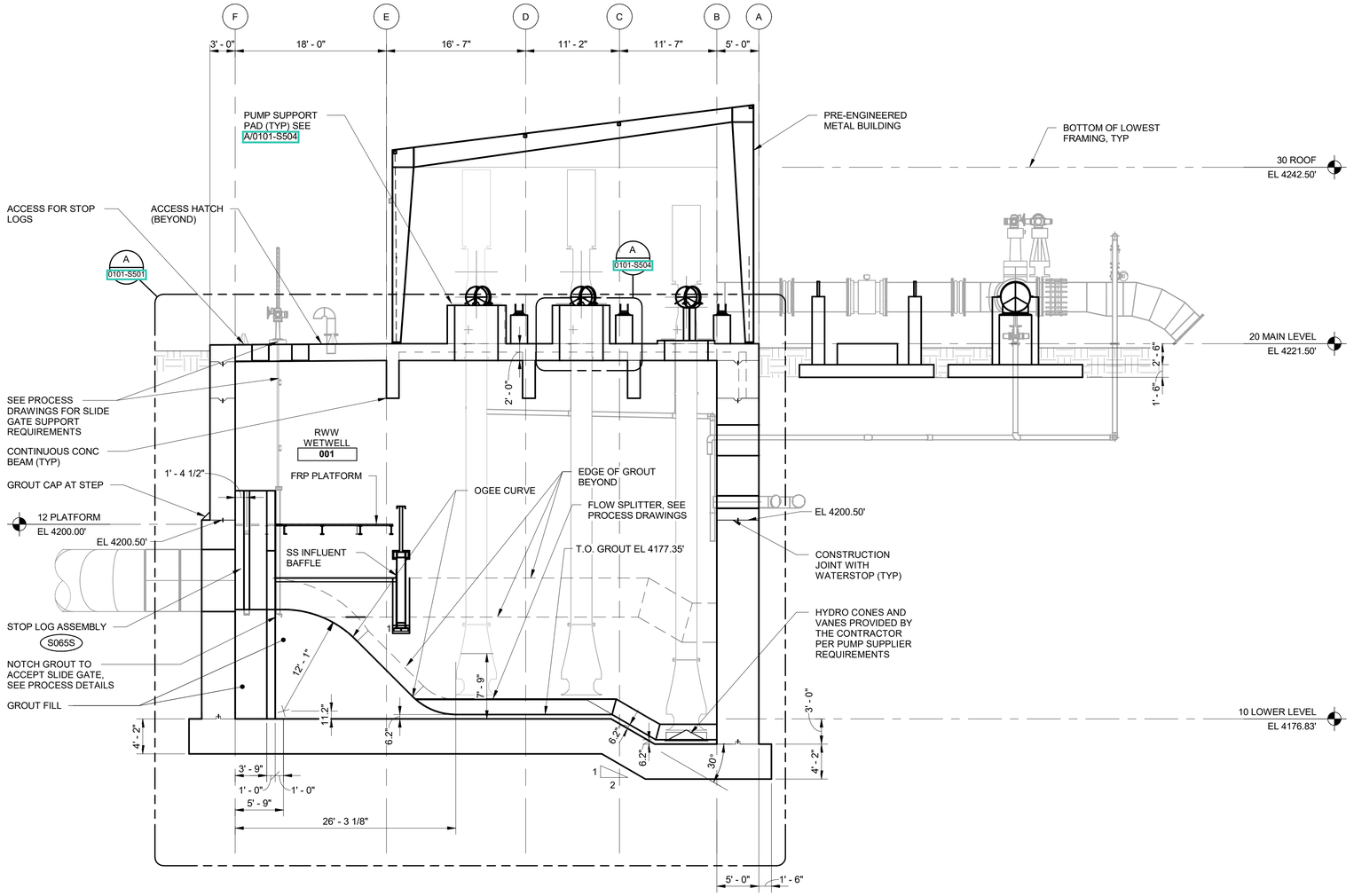
DRAWING No.
0101-S104

SHEET _____ OF _____

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DATE: 3/30/2023 9:31:00 AM

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A SECTION
0101-S101 SCALE: 1/8" = 1'-0"

DATE: 3/30/2023 9:31:04 AM

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SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-IA	ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

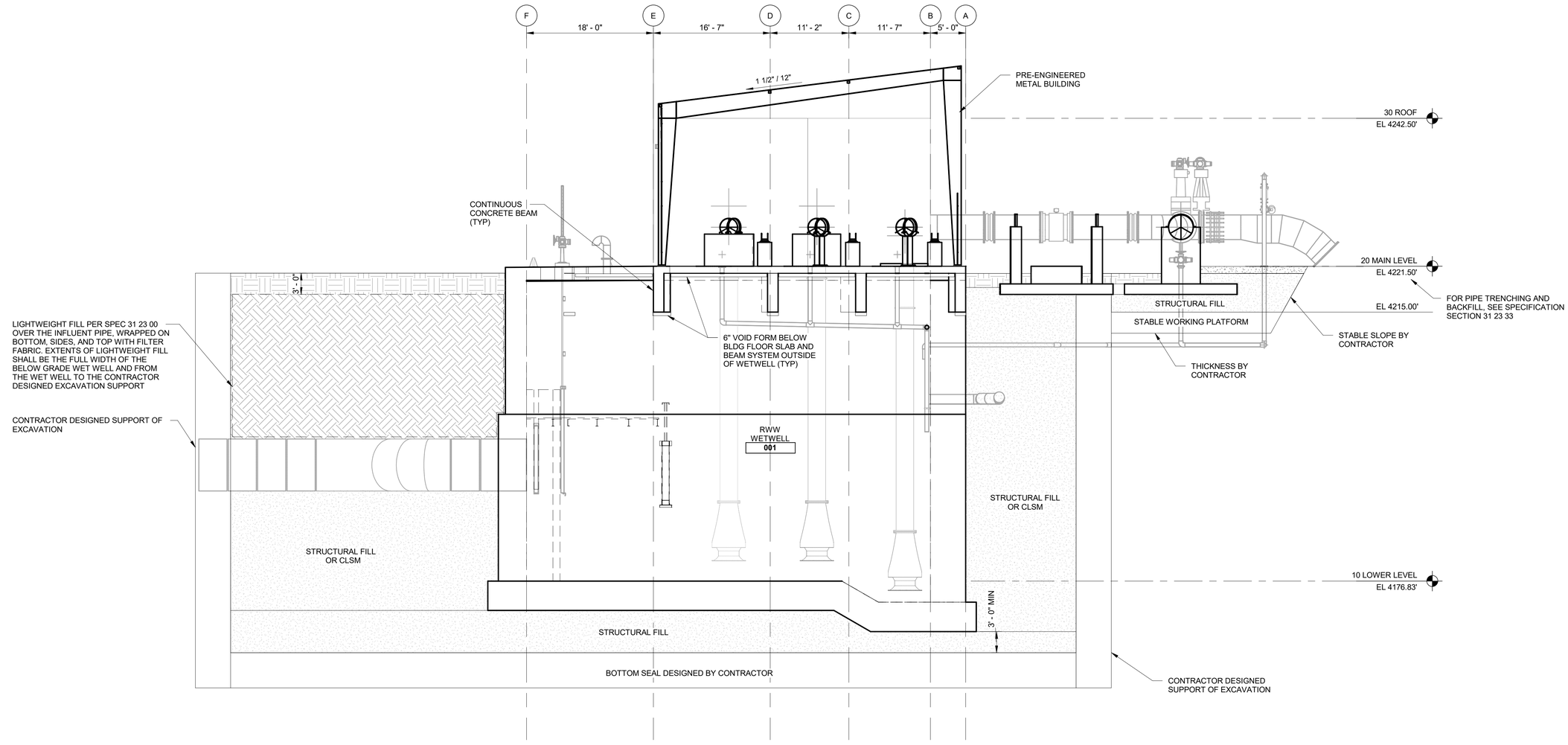
FRAMING SECTION

CENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

DRAWING No.
0101-S301

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



B | SECTION
0101-S103 | SCALE: 1/8" = 1'-0"

DATE: 3/30/2023 9:31:09 AM

FILE: BIM 360://6057228-Salt Lake City 2019/5249/5350_0101-S001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	M. WASHMUTH
DRAWN BY:	J. KUNKEL
CHECKED BY:	R. HAWTHORNE
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

FRAMING SECTION

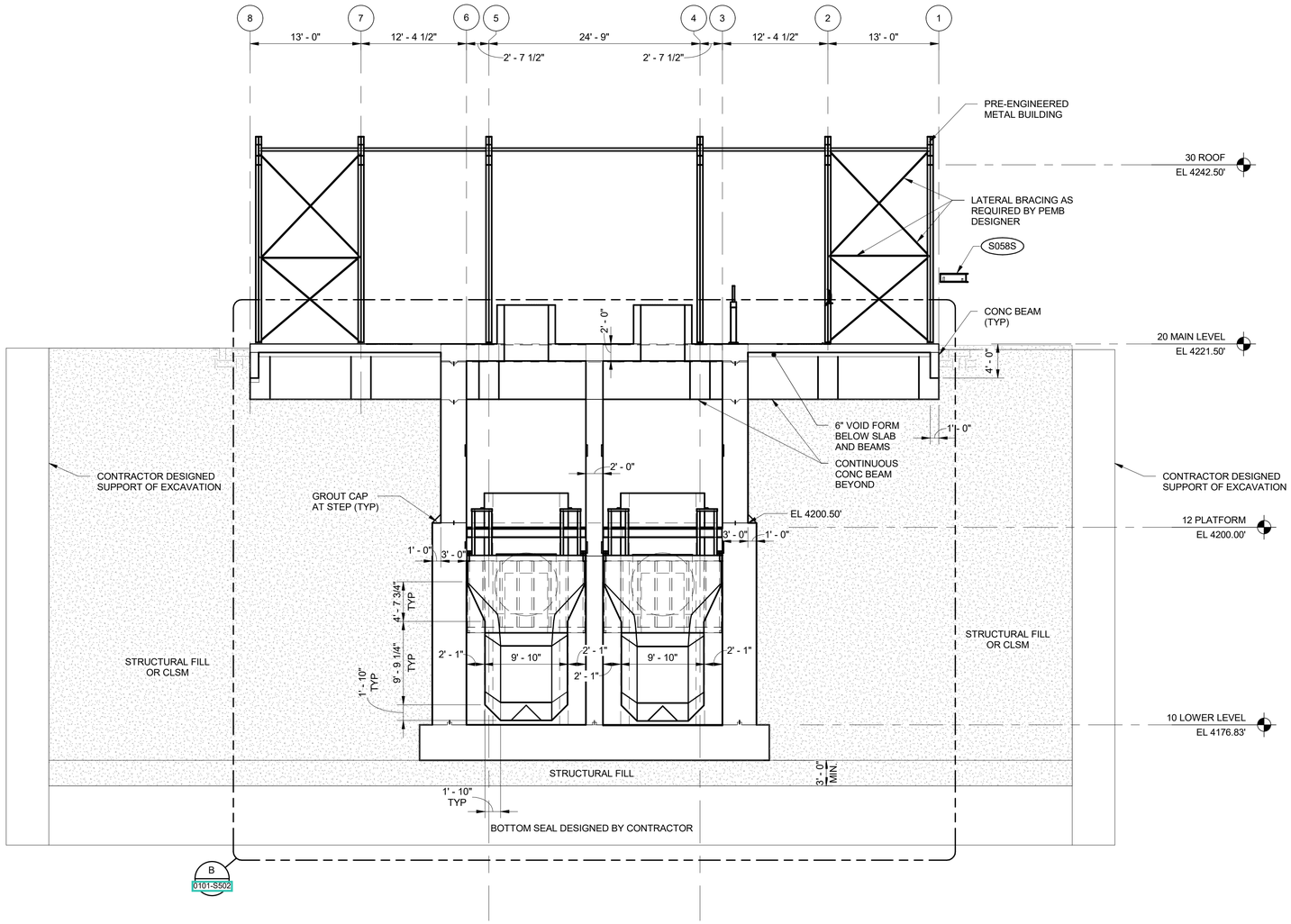
LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

DRAWING No.
0101-S302

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



C | SECTION
0101-S101 | SCALE: 1/8" = 1'-0"

DATE: 3/30/2023 9:31:13 AM

FILE: BIM 360://60572288-Salt Lake City 2019\5249\5350_0101-S001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

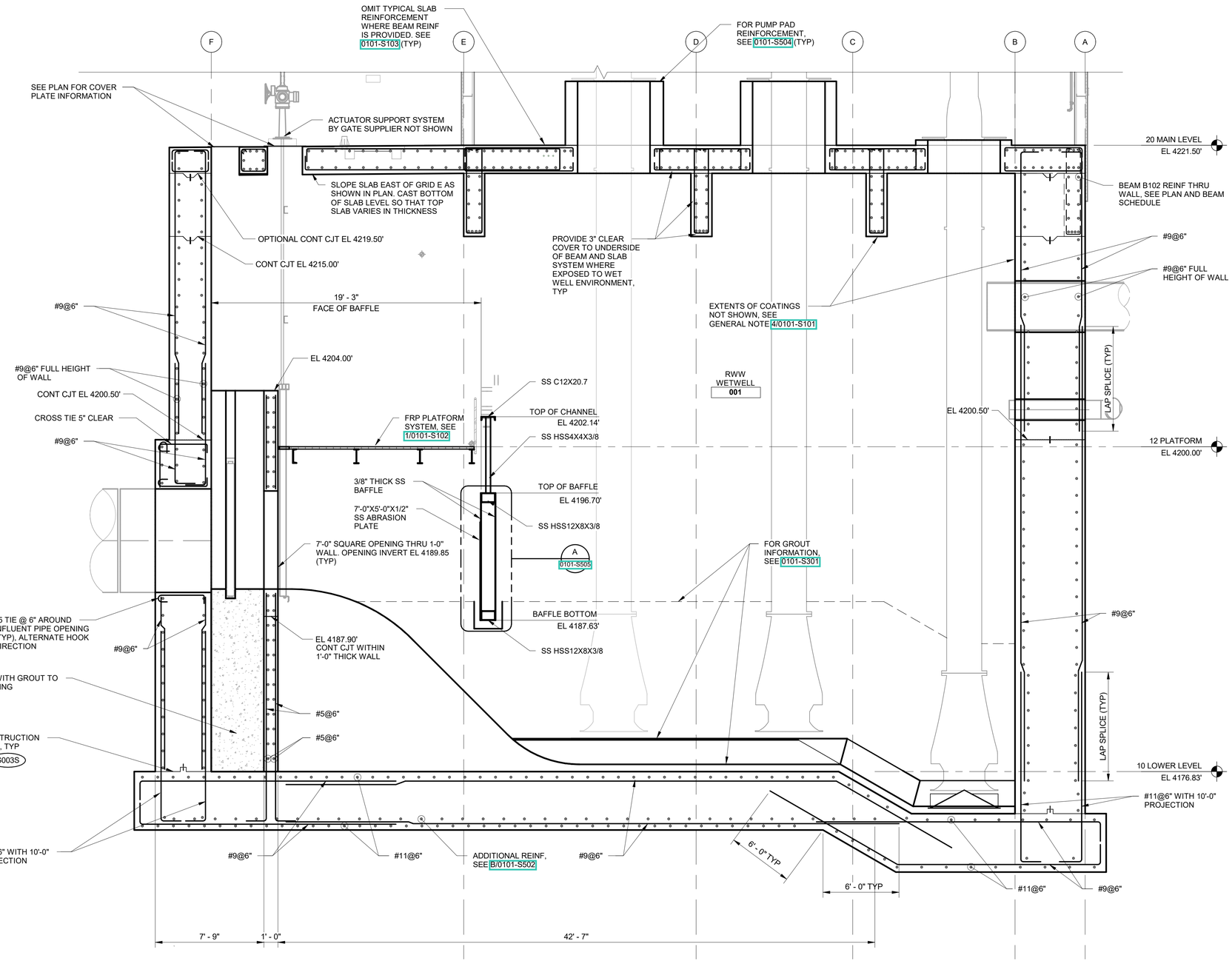
FRAMING SECTION

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

DRAWING No.
0101-S303

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



A | SECTION
0101-S301 | SCALE: 1/4" = 1'-0"

DATE: 3/30/2023 9:31:17 AM

FILE: BIM 360://6057228-Salt Lake City 2019/524905350_0101-S001.rvt

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

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905350

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

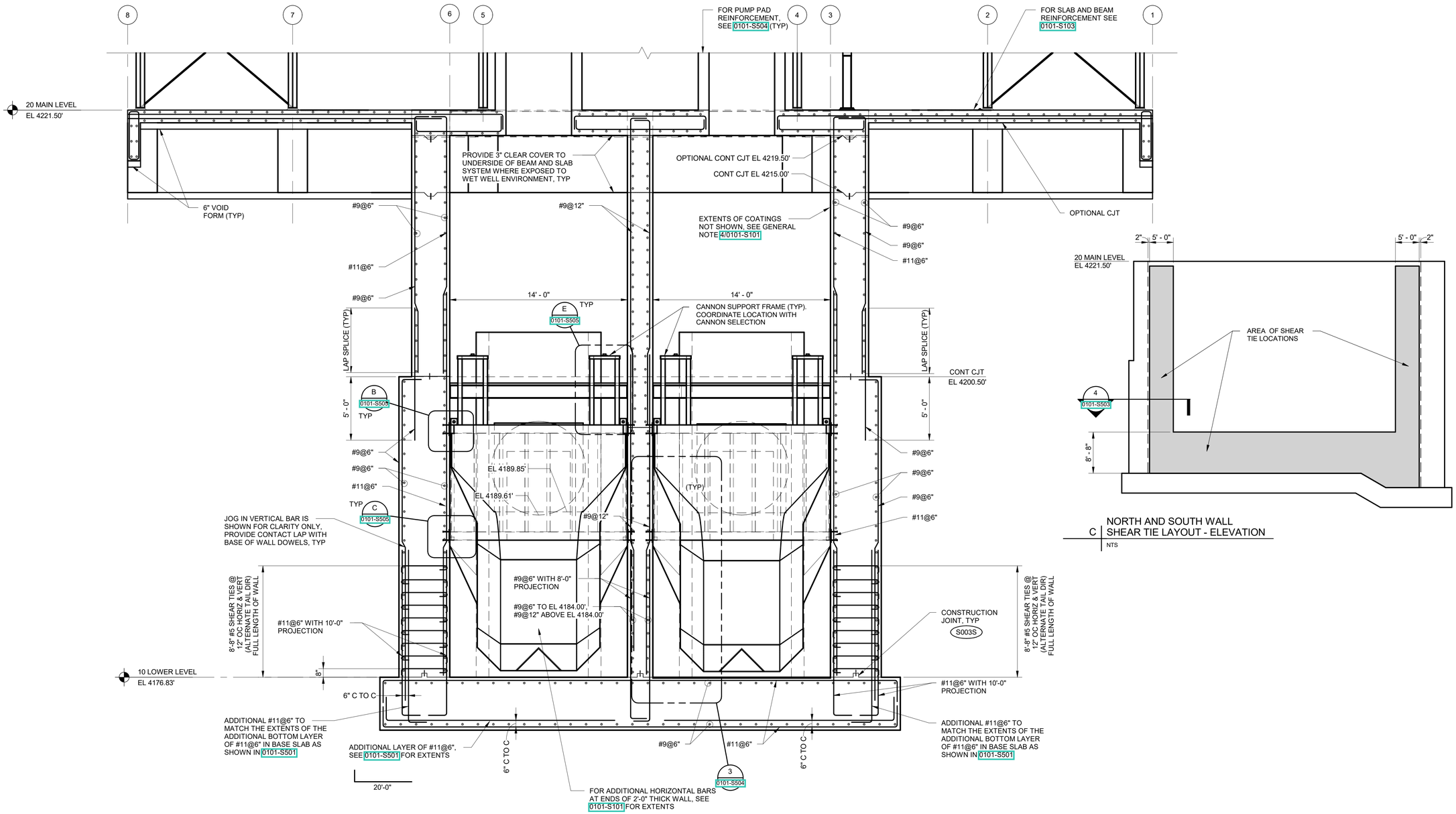
SECTION DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

DRAWING No.
0101-S501

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



B | SECTION
0101-S303 SCALE: 1/4" = 1'-0"

C | NORTH AND SOUTH WALL
SHEAR TIE LAYOUT - ELEVATION
NTS

SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-ITA: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SECTION DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

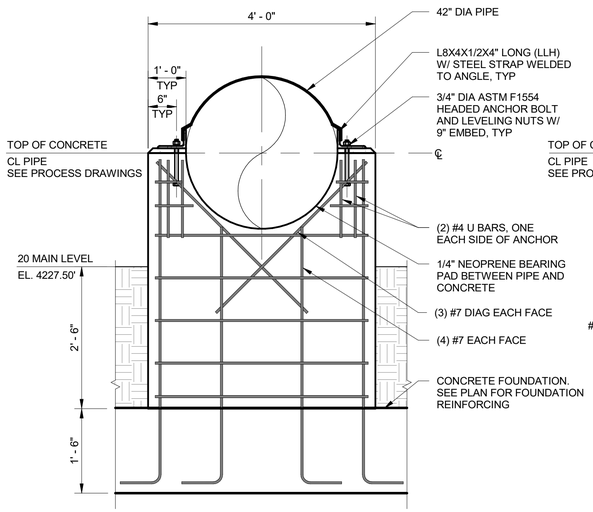
DRAWING No.
0101-S502

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

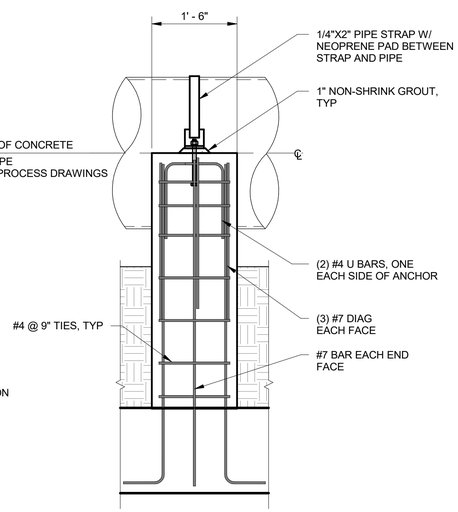
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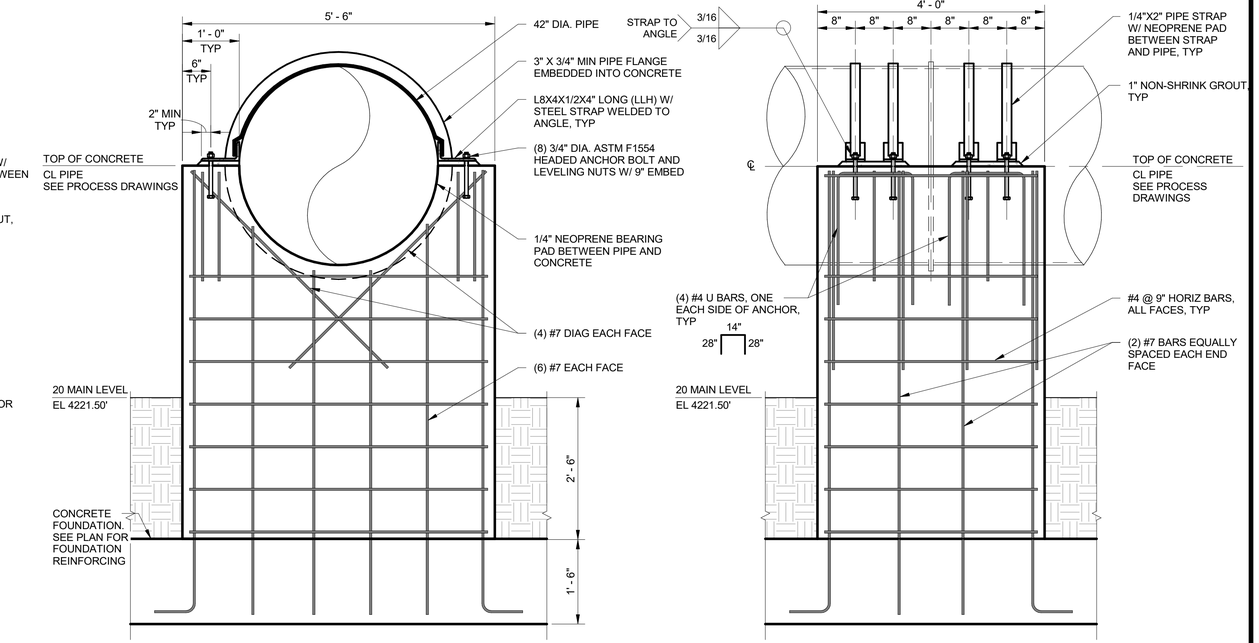
FILE: BIM 360://6057228-Salt Lake City 2019\524905350_0101-S001.rvt



1 | PIPE SUPPORT

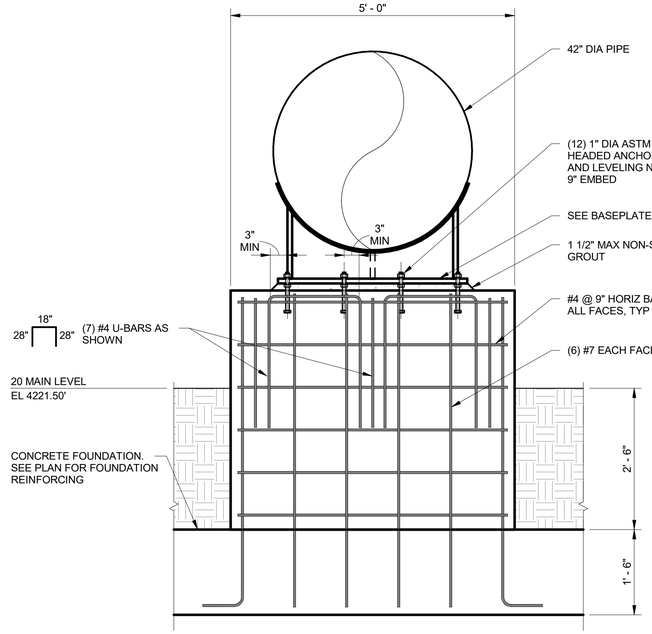
SCALE: NTS





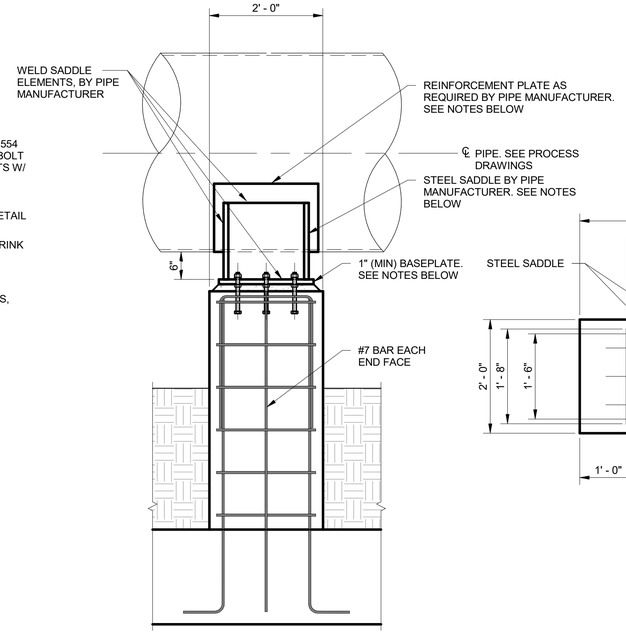
2 | PIPE SUPPORT

SCALE: NTS

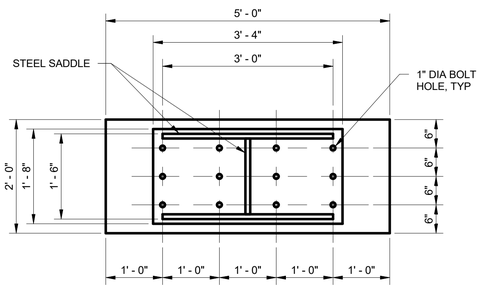


3 | PIPE SUPPORT

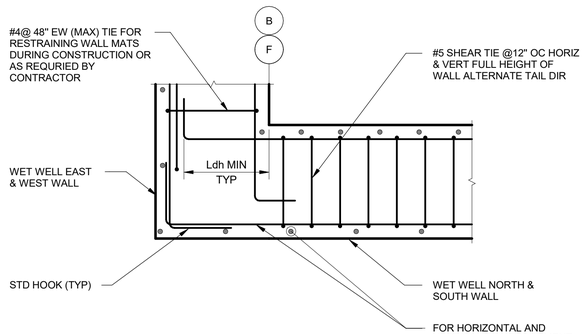
0101-S502 | NTS



NOTES: REINFORCEMENT PLATE (IF REQUIRED), STEEL SADDLE AND BASE PLATE TO MATCH PIPE MATERIAL AND TO BE DESIGNED FOR:
1. 90 KIP (ULT) LATERAL THRUST LOAD CONSIDERED TO BE ACTING AT PIPE CENTER, PERPENDICULAR TO PIPE AXIS.
2. 7 KIP (ULT) AXIAL SEISMIC LOAD ACTING AT PIPE CENTER, ALONG PIPE AXIS.
3. 11 KIP (ASD) VERTICAL LOAD DUE TO SELF WEIGHT PLUS CONTENTS, AND 1.8 KIP (ULT) VERTICAL LOAD DUE TO SEISMIC.



BASE PLATE DETAIL



4 | WALL CORNER DETAIL

0101-S101 | SCALE: 3/8" = 1'-0"

SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905096

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SECTION DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

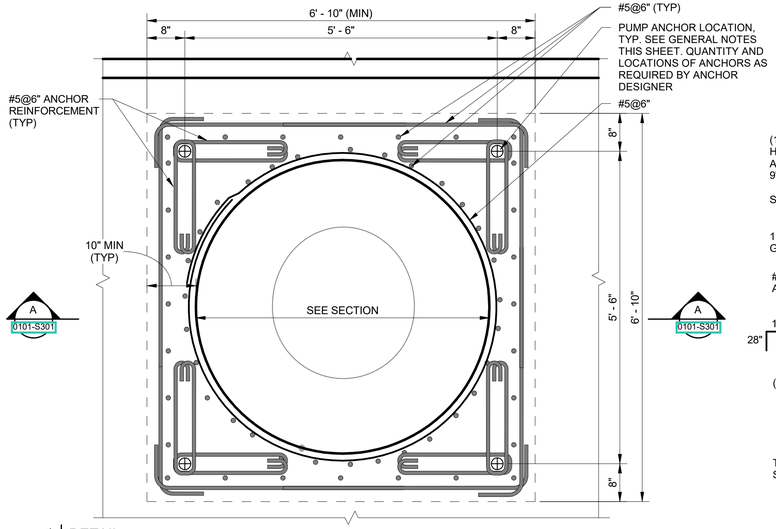
DRAWING No.
0101-S503

SHEET _____ OF _____

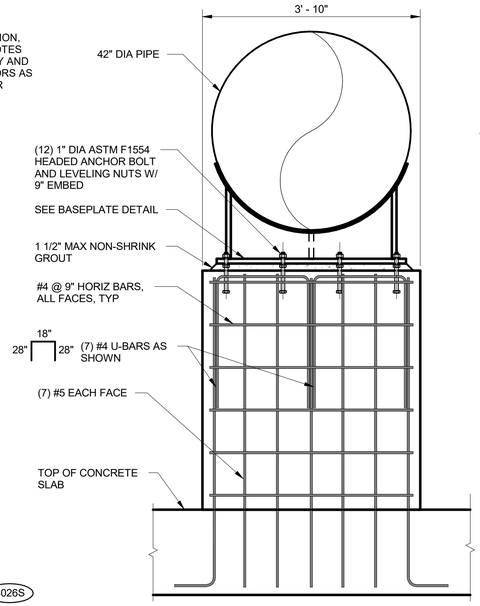
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:31:24 AM

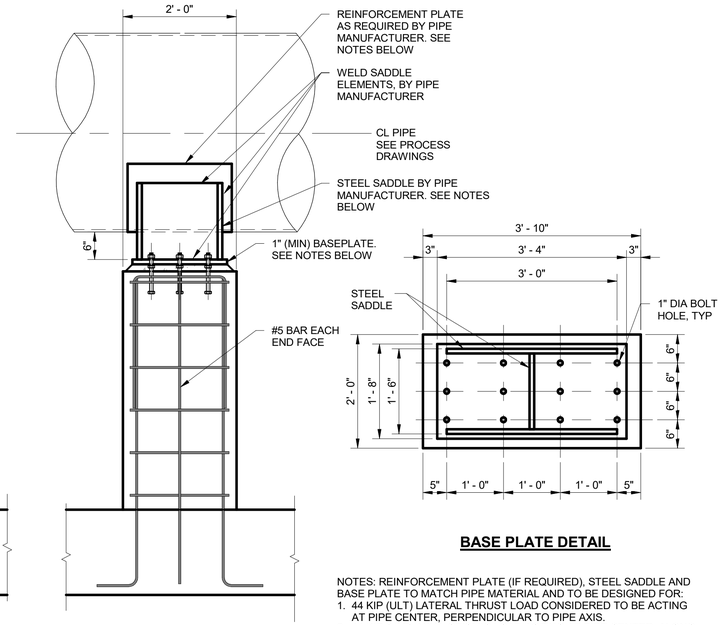
FILE: BIM 360://9057228-Salt Lake City 20195240S350_0101-S001.rvt



1 | DETAIL
0101-S103 | NTS



4 | PIPE SUPPORT
SCALE: 3/4" = 1'-0"

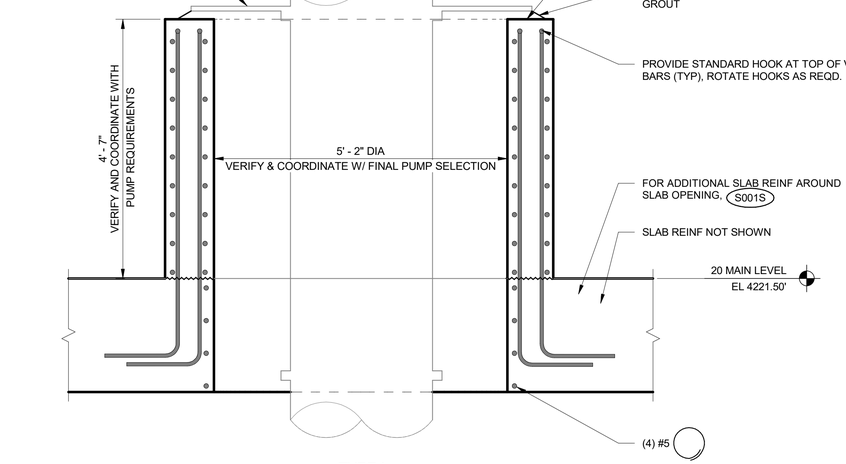


BASE PLATE DETAIL

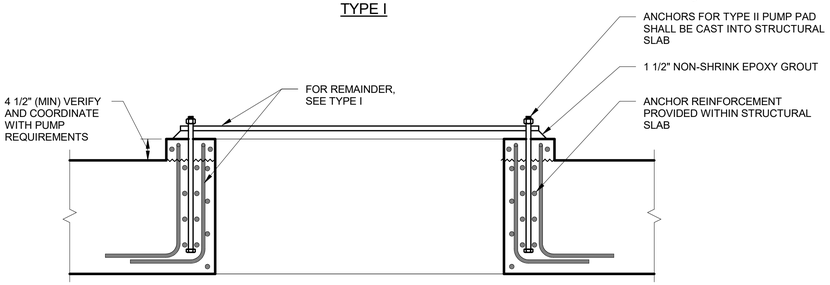
NOTES: REINFORCEMENT PLATE (IF REQUIRED), STEEL SADDLE AND BASE PLATE TO MATCH PIPE MATERIAL AND TO BE DESIGNED FOR:
1. 44 KIP (ULT) LATERAL THRUST LOAD CONSIDERED TO BE ACTING AT PIPE CENTER, PERPENDICULAR TO PIPE AXIS.
2. 44 KIP (ULT) AXIAL SEISMIC LOAD ACTING AT PIPE CENTER, ALONG PIPE AXIS.
3. 11 KIP (ASD) VERTIAL LOAD DUE TO SELF WEIGHT PLUS CONTENTS, AND 1.8 KIP (ULT) VERTICAL LOAD DUE TO SEISMIC.

GENERAL NOTES

1. COORD ALL DIMENSIONS AND HEIGHTS WITH REQUIREMENTS OF FINAL PUMP SELECTION. PUMP ATTACHMENT SHOWN IS SUBJECT TO CHANGE BASED ON THE REQUIREMENTS OF THE PUMP SUPPLIER AND ANCHORAGE DESIGNER.
2. PUMP MANUFACTURER IS RESPONSIBLE FOR DESIGN AND SPECIFYING OF BASE PLATE, SOLE PLATE AND ANCHORS. SUBMIT SIGNED AND SEALED CALCULATIONS FOR REVIEW PRIOR TO FABRICATION.
3. USE OF PIPE SLEEVES FOR PUMP ANCHORS MAY BE USED BASED ON THE RECOMMENDATIONS OF THE ANCHOR DESIGNER.
4. PROVIDE WEDGES OR SHIMS TO SUPPORT THE PUMP BASE AS REQUIRED UNTIL THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. WEDGES OR SHIMS THAT REMAIN IN PLACE SHALL NOT BE EXPOSED TO VIEW.

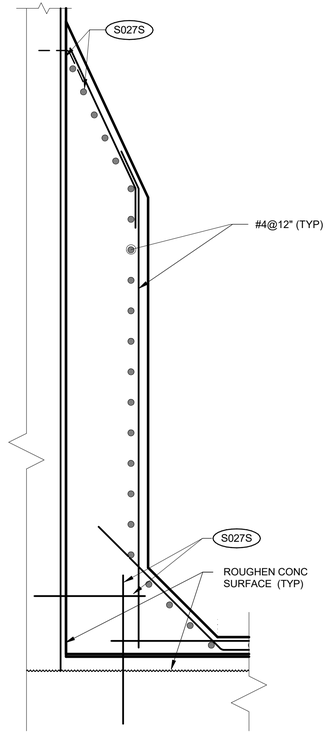


TYPE I



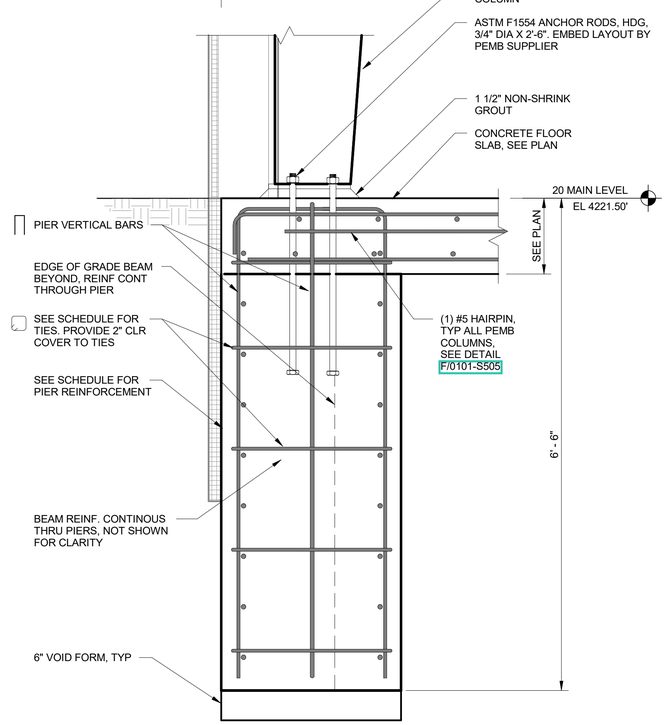
TYPE II

A | SECTION
0101-S301 | NTS



NOTE:
1. CONCRETE GROUT STRENGTH SHALL BE 5000 PSI

GROUT REINFORCEMENT DETAIL
3 | DETAIL
0101-S502 | NTS



5 | SECTION
0101-S103 | SCALE: 1" = 1'-0"

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	RP	SP

LAST CONFORMED SET: ISSUED FOR BID

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SECTION DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

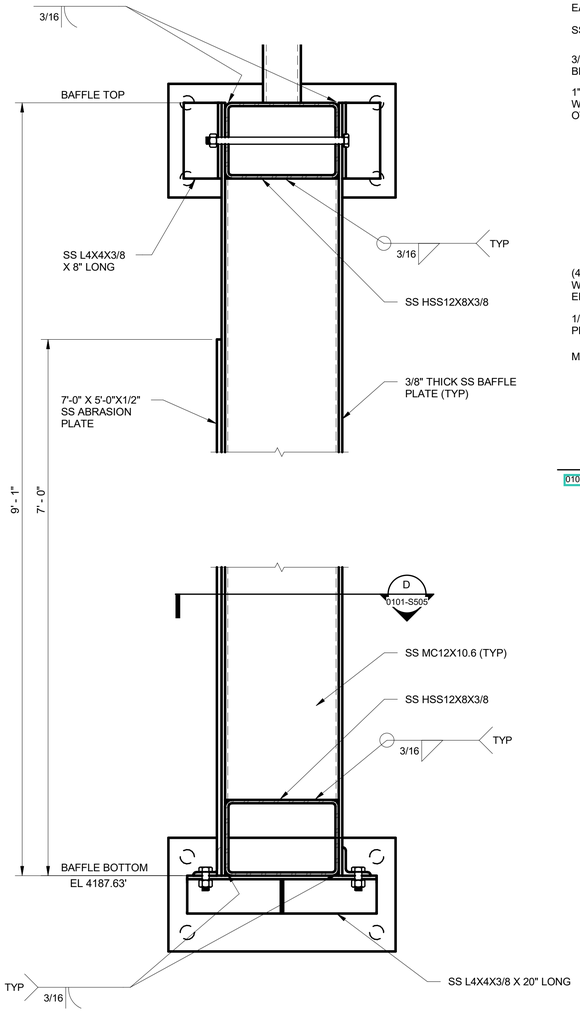
DRAWING No.
0101-S504

SHEET _____ OF _____

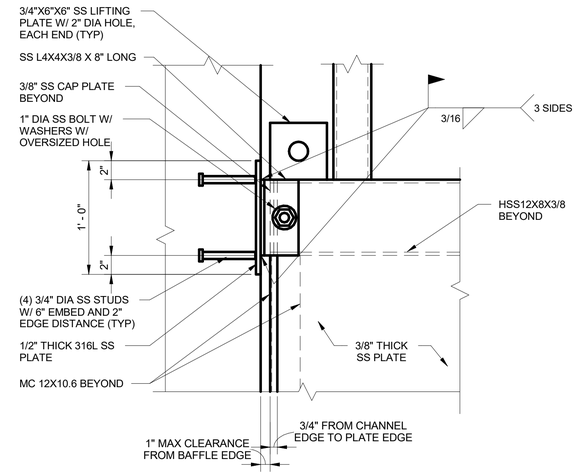
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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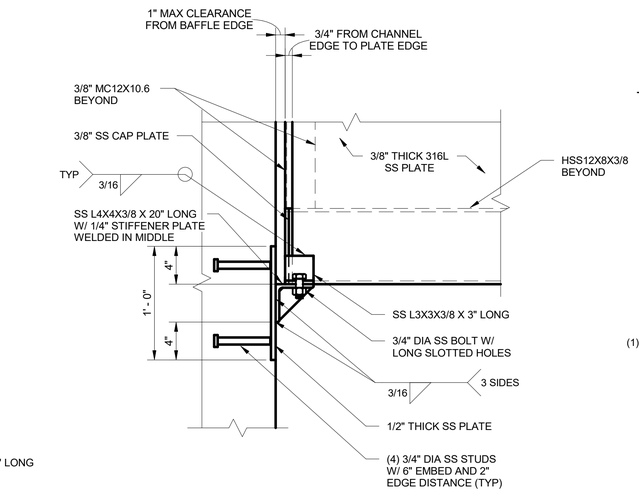
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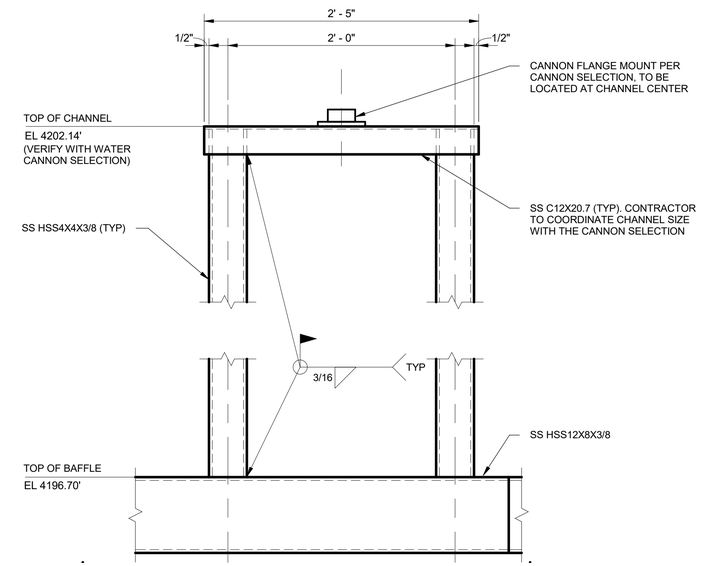
A | DETAIL
0101-S501 SCALE: 1 1/2" = 1'-0"



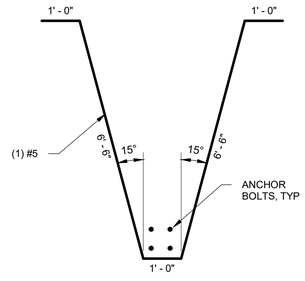
B | DETAIL
0101-S502 SCALE: 1 1/2" = 1'-0"



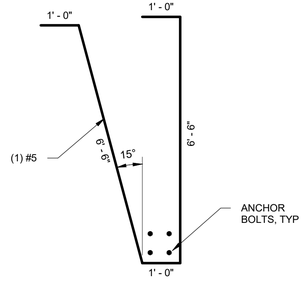
C | DETAIL
0101-S502 SCALE: 1 1/2" = 1'-0"



E | DETAIL
0101-S502 SCALE: 1 1/2" = 1'-0"

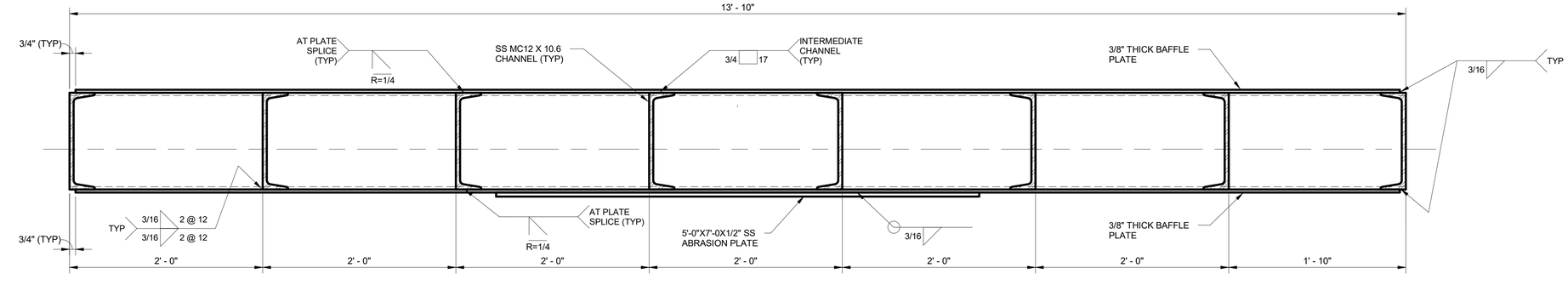


INTERIOR COLUMNS



CORNER COLUMNS

F | HAIRPIN DETAILS
NTS



D | SECTION
0101-S505 SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

1. EPOXY COATING SYSTEM OF WET WELL SHALL OCCUR AT THE WALL ATTACHMENT POINTS OF THE BAFFLE SYSTEM AS RECOMMENDED BY THE EPOXY COATING SUPPLIER. CONTRACTOR TO VERIFY AND COORDINATE FABRICATION REQUIREMENTS WITH THE EPOXY SUPPLIER RECOMMENDATIONS INCLUDING BUT NOT LIMITED TO ROUNDING SHARP CORNERS OF STEEL.
2. ALL SS ELEMENTS SHALL BE 316L.

SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SECTION DETAILS

LAKE CITY PUBLIC UTILITIES

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

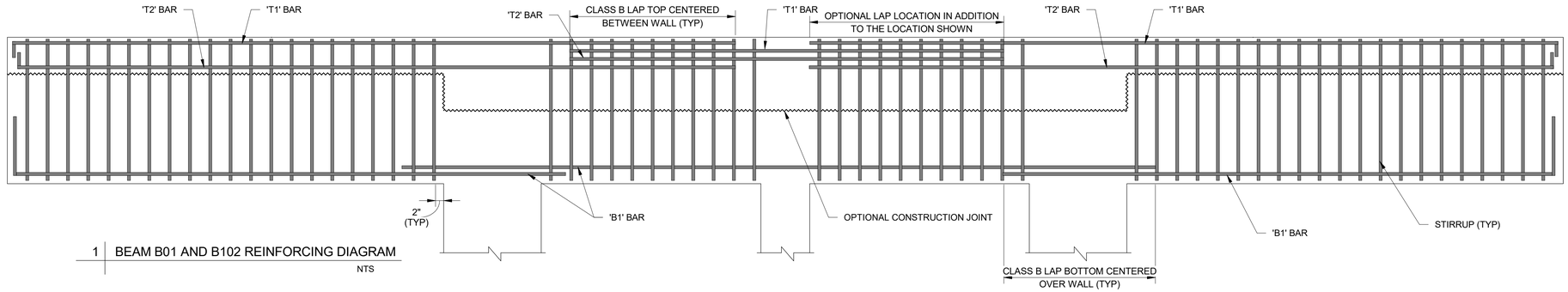
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SHEET _____ OF _____

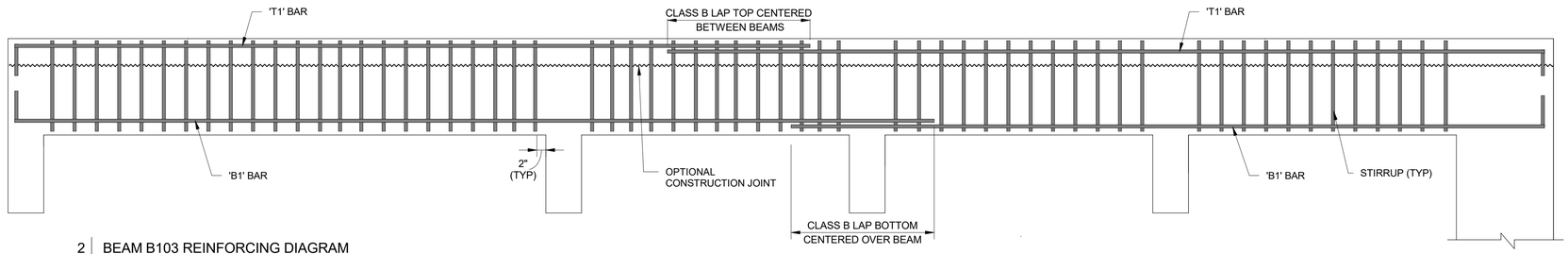
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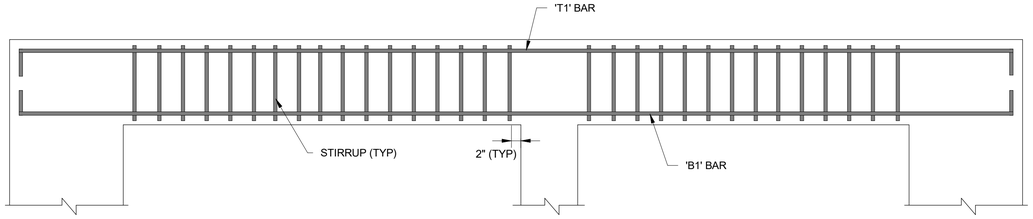
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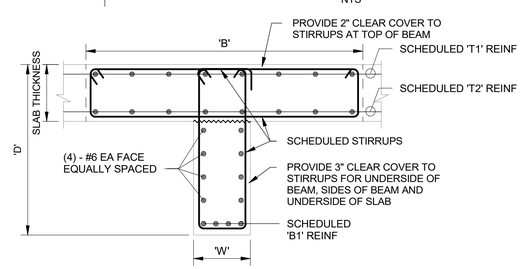
1 | BEAM B01 AND B102 REINFORCING DIAGRAM
NTS



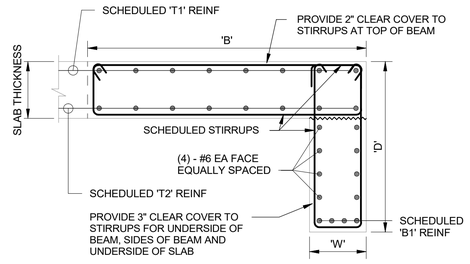
2 | BEAM B103 REINFORCING DIAGRAM
NTS



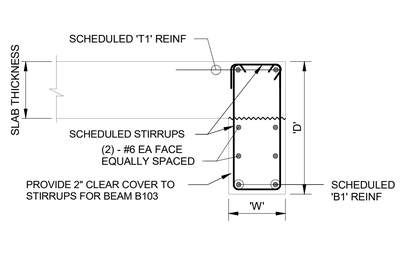
3 | BEAM B104 REINFORCING DIAGRAM
NTS



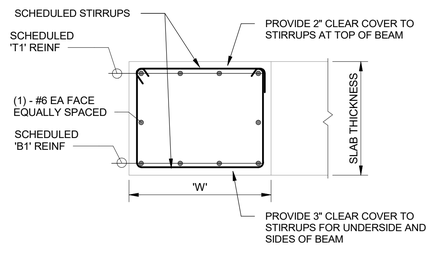
A | DETAIL - BEAM B101
NTS



B | DETAIL - BEAM B102
NTS



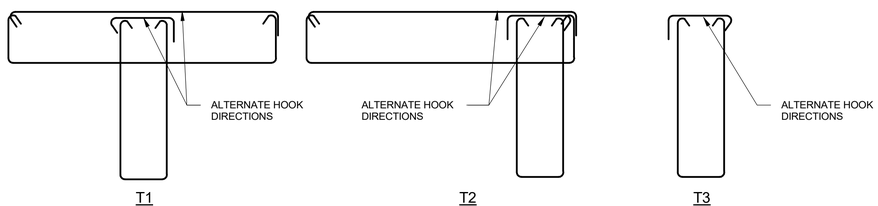
C | DETAIL - BEAM B103
NTS



D | DETAIL - BEAM B104
NTS

BEAM SCHEDULE

MARK		SIZE W" X D"	SIZE B"	DETAIL	STEEL REINFORCING				
LEVEL	BEAM				BOTTOM 'B1'	TOP 'T1'	TOP 'T2'	TYPICAL STIRRUP	NOTES
MAIN LEVEL	B101	18" X 78"	60"	A/0101-S601	(4) #9	(10) #9	(10) #9	T1 #4 @ 12" OC	
MAIN LEVEL	B102	18" X 78"	60"	B/0101-S601	(4) #9	(10) #9	(10) #9	T2 #4 @ 12" OC	OMIT STIRRUPS WITHIN WALLS
MAIN LEVEL	B103	12" X 48"	-	C/0101-S601	(2) #9	(2) #9	-	T3 #4 @ 18" OC	
MAIN LEVEL	B104	24" X 23"+/-	-	D/0101-S601	(4) #9	(4) #9	-	T3 #4 @ 6" OC	DEPTH OF BEAM SHALL MATCH THICKNESS OF SLAB



STIRRUP LAYOUT TYPES
NTS

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

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KUNKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

BEAM SCHEDULE AND DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

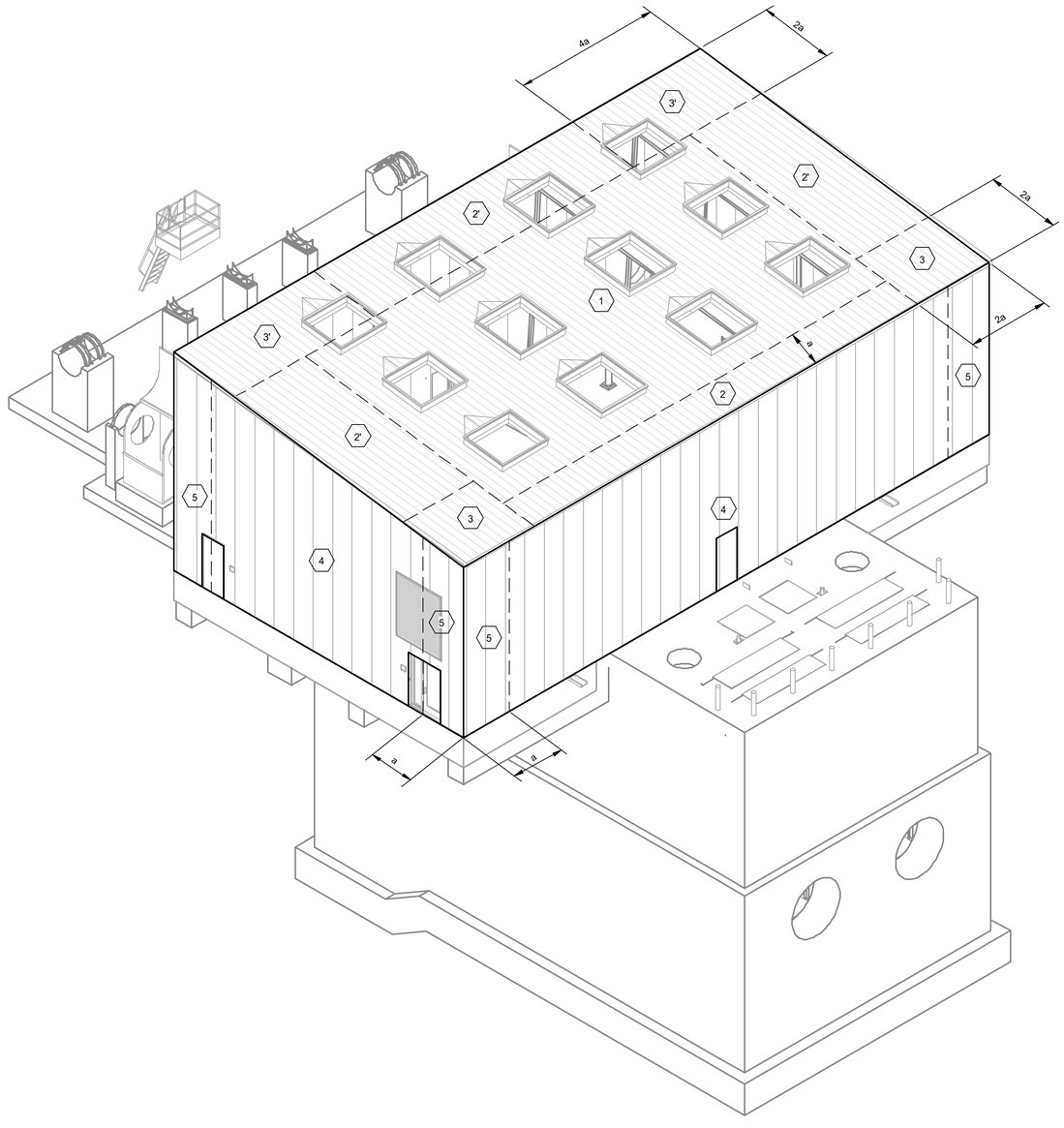
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0101-S601

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IPS BUILDING WIND PRESSURES : COMPONENTS & CLADDING			
ULTIMATE DESIGN WIND PRESSURES (PSF)			
EFFECTIVE WIND AREA			
ZONE	10 SF	20 SF	50 SF
ROOF ZONE			
1	-36.8 / 19	-36.8 / 18.3	-36.8 / 17.4
2	-41.3 / 19	-40.6 / 18.3	-39.7 / 17.4
2'	-48 / 19	-47.3 / 18.3	-46.4 / 17.4
3	-52.5 / 19	-48.4 / 18.3	-43.1 / 17.4
3'	-70.3 / 19	-63.6 / 18.3	-54.7 / 17.4
WALL ZONE			
4	-34.4 / 32.4	-33.3 / 31.3	-31.9 / 29.9
5	-40.4 / 32.4	-38.3 / 31.3	-35.4 / 29.9

a = 4.4 ft

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M. WASHMUTH
DRAWN BY: J. KLINKEL
CHECKED BY: R. HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE		MADE BY:	AUTH. BY:
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

WIND LOADS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

DRAWING No.
0101-S602

SHEET _____ OF _____

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DATE: 3/30/2023 9:31:47 AM

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1.1 GENERAL – 01 01 - IPS

1.2 OWNER SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

1.3 SITE ADDRESS 1365 W 2300 N, SALT LAKE CITY, UT 84116

1.4 CODE IN EFFECT
INTERNATIONAL BUILDING CODE, 2018 EDITION
INTERNATIONAL PLUMBING CODE, 2018 EDITION
INTERNATIONAL MECHANICAL CODE, 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE 2018 EDITION
INTERNATIONAL FIRE CODE, 2018 EDITION
INTERNATIONAL FUEL GAS CODE, 2018 EDITION
A117.1-2009 AMERICAN NATIONAL STANDARDS INSTITUTE

1.5 AUTHORITY HAVING JURISDICTION
SALT LAKE CITY BUILDING DEPARTMENT

1.6 SEPARATE PERMIT REQUIRED FOR BUILDING MOUNTED SIGNAGE

2.1 SITE PROPERTY DESCRIPTION: MULTIPLE BUILDING PROPERTY

2.2 DISTANCE TO LOT LINES
NORTH EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY LOT LINES
SOUTH EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY
EAST EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY
WEST EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY

2.3 PARKING DATA SEE CIVIL DRAWINGS FOR PARKING SUMMARY AND PARKING DATA

3.1 BUILDING DESCRIPTION: NON-SPRINKLERED UNPROTECTED PRE-ENGINEERED METAL BUILDING

3.2 BUILDING USE & OCCUPANCY CLASSIFICATION (IBC 302.1)
USE: FACTORY
GROUP: F-2

3.3 TYPE OF CONSTRUCTION
TYPE II-B NON-COMBUSTIBLE MATERIALS

3.4 BUILDING HEIGHT (IBC 504)

	FEET	STORIES
PROPOSED:	29'-3"	1
ALLOWED:	55'-0"	3

3.5 BUILDING AREA (IBC 506) GROSS SQ. FT.

PER TABLE 506.2 : ALLOWABLE AREA = 23,000.00 S.F.

10 LOWER LEVEL	1,720.00 SF
12 PLATFORM	552.50 SF
20 MAIN LEVEL	3,396.42 SF
TOTAL AREA PROVIDED	5,668.92 SF

3.6 FIRE RESISTANCE RATINGS (IBC TABLE 601)

ELEMENT	MATERIAL	RATING
STRUCTURAL FRAME	NON-COMBUSTIBLE	0 - HR
BEARING WALLS		
- EXTERIOR	NON-COMBUSTIBLE	0 - HR
- INTERIOR	NON-COMBUSTIBLE	0 - HR
NON-BEARING WALLS / PARTITIONS		
- EXTERIOR	NON-COMBUSTIBLE	0 - HR
- INTERIOR	NON-COMBUSTIBLE	0 - HR
FLOOR CONSTRUCTION	NON-COMBUSTIBLE	0 - HR
ROOF CONSTRUCTION	NON-COMBUSTIBLE	0 - HR

3.7 EXTERIOR WALL FIRE RATINGS (IBC TABLE 601 & 602)
FIRE SEPARATION DISTANCE:
X (FEET)
X>=30
TYPE OF CONSTRUCTION:
II-B

3.8 OPENING PROTECTION (IBC TABLE 705.8)
UNLIMITED UNPROTECTED OPENINGS

4.1 BUILDING ENVELOPE: CLIMATE ZONE 5B

IECC REQUIRED

4.2 OPAQUE THERMAL	
ROOFS	
METAL BUILDINGS	R-19 + R-11 LINER SYSTEM
WALLS	
METAL BUILDING	R-13 +R-13 CONT INSUL
BELOW-GRADE WALL (WALL >85% BELOW GRADE)	R-7.5 CONT INSUL TO EXTEND DOWN 10' FROM THE OUTSIDE FINISHED GRADE LEVEL OR TO THE LEVEL OF THE LOWEST FLOOR, WHICHEVER IS LESS
SLAB ON GRADE FLOORS	R-10 FOR 24" BELOW
4.3 GLAZING	
VERTICAL FENESTRATION	
- GLAZING	U-0.29
WINDOW FRAMES	ALL-THERMALLY BROKEN
- FIXED	U-0.38
- OPERABLE	U-0.45
- ENTRANCE DOORS	U-0.77
- SKYLIGHT < 3.0 % OF ROOF	U-0.50
	SHGC-0.40
	VLT-0.55
4.3 AIR LEAKAGE INFILTRATION RATE	0.04 CFM/FT2

5.1 LIFE SAFETY - EGRESS

5.2 OCCUPANT LOADS (IBC 1004.5)

AREA	OCCUPANT LOAD FACTOR	OCCUPANTS
2,273 SF	0	0
3,396 SF	300	11.32 (12)

5.3 EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2)

PROPOSED: 51'-0"
ALLOWED: 300'-0"

5.4 MAXIMUM COMMON PATH OF TRAVEL (IBC TABLE 1006.2.1)

OCCUPANCY: F-2
MAX ALLOWED: 75' WITHOUT SPRINKLER SYSTEM

5.5 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (IBC TABLE 1006.3.2)

	OCCUPANT LOAD PER STORY	NUMBER OF EXITS
REQUIRED:	1 - 500	2
PROPOSED EXITS: PER STORY:	20 MAIN	5

5.6 EGRESS WIDTHS (IBC 1005.3)

	REQUIRED	PROVIDED
OTHER EGRESS COMPONENTS	12 X 0.2" = 2.4" 0.2/OCCUPANT	33" X 6 = 198" 36" DOOR, 33" CLEAR
STAIR WIDTH (IBC 1009.1 & 1011.2) 0.3/OCCUPANT	15 X 0.3" = 4.5"	NONE
CORRIDOR WIDTH (IBC TABLE 1020.2)	NOT < 36"	NONE

5.7 EGRESS CEILING HEIGHTS (IBC 1003.2)

	REQUIRED	PROVIDED
EXIT PASSAGES	7'-6" CLEAR	> 7'-6" CLEAR
PROTRUDING OBJECTS	NOT < 6'-8" 50% OF PASSAGEWAY	> 6'-8" 50% OF PASSAGEWAY

5.8 DOOR OPERATIONS (IBC 1010.1.9) EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT AND MUST BE UNLOCKED IN THE DIRECTION OF EGRESS TRAVEL AT ALL TIMES.

6.1 FIRE-RESISTANT CONSTRUCTION

6.2 FIRE WALLS (IBC 706)	NOT REQUIRED
6.3 FIRE BARRIERS (IBC 707)	NOT REQUIRED
6.4 SHAFT ENCLOSURES (IBC 713)	NOT REQUIRED
6.5 FIRE PARTITIONS (IBC 708)	NOT REQUIRED
6.6 SMOKE BARRIERS (IBC 709)	NOT REQUIRED
6.7 HORIZONTAL ASSEMBLIES (IBC 711)	NOT REQUIRED
6.8 PENETRATIONS (IBC 714)	NOT REQUIRED

7.1 FIRE PROTECTION SYSTEMS

7.2 AUTOMATIC SPRINKLER SYSTEM (IBC 903) NOT REQUIRED
LOWER LEVEL SEPARATED INTO TWO UNCONNECTED SPACES OF 860 SQ FT < 1500 SQ FT MAX

7.3 STANDPIPE SYSTEMS
(IBC 905) NOT REQUIRED

7.4 PORTABLE FIRE EXTINGUISHERS
(IBC 906) AT EXIT LOCATIONS - MAX TRAVEL DISTANCE TO EXTINGUISHER = 75'

7.5 FIRE ALARM DETECTION SYSTEMS
SEE FIRE PROTECTION DRAWINGS

8.0 ACCESSIBILITY
BUILDING ACCESSIBLE ROUTE, ENTRANCES, FACILITIES, AND SIGNAGE TO CONFORM TO REQUIREMENTS OF IBC CHAPTER 11.

9.0 ENERGY EFFICIENCY
SEE INTERNATIONAL ENERGY CONSERVATION CODE

10.0 STRUCTURAL DESIGN
SEE STRUCTURAL CODE SHEET

11.0 ELECTRICAL
SEE ELECTRICAL CODE SHEET

12.0 MECHANICAL SYSTEMS
SEE MECHANICAL CODE SHEET

13.0 PLUMBING SYSTEMS
SEE PLUMBING CODE SHEET

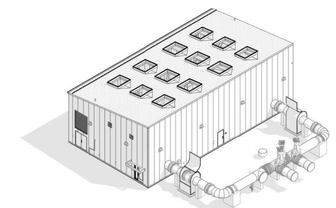
OCCUPANCY	WATER CLOSET MALE / FEMALE	LAVATORIES MALE / FEMALE	DRINKING FOUNTAINS	SERVICE SINK
F-2 (12 OCCUPANTS)	1:100 12/100 = 0.12	1:100 12/100 = 0.12	1:400 12/400 = 0.03	1
REQUIRED:	0.12 (1 WC)	0.12 (1 LAV)	0.03 (1 DF)	1
PROVIDED:	*0 WC	*0 LAV	**0 DF	*0

*WATER CLOSETS, LAVATORIES AND SERVICE SINK PROVIDED AT NEARBY BUILDING PER IBC EXCEPTION 2902.3.3.
OWNER VERIFIED BUILDING TO BE TYPICALLY UNOCCUPIED DURING NORMAL PLANT OPERATIONS
**DRINKING FOUNTAIN NOT REQUIRED PER IBC 410.2 - SMALL OCCUPANCIES

OCCUPANCY SPREADSHEET

ROOM NAME	NUMBER	AREA	GROUP	LOAD FACTOR	OCCUPANTS
10 LOWER LEVEL					
RWW WET WELL 1	001	583.75 SF	F-2 FACTORY	0 SF GROSS*	
RWW WET WELL 1	001	276.25 SF	F-2 FACTORY	0 SF GROSS*	
RWW WET WELL 2	002	583.75 SF	F-2 FACTORY	0 SF GROSS*	
RWW WET WELL 2	002	276.25 SF	F-2 FACTORY	0 SF GROSS*	
		1,720.00 SF			0.00
12 PLATFORM					
PLATFORM 1	PLT01	276.25 SF	F-2 FACTORY	0 SF GROSS*	
PLATFORM 2	PLT02	276.25 SF	F-2 FACTORY	0 SF GROSS*	
		552.50 SF			0.00
20 MAIN LEVEL					
PUMP RM	101	3,396.42 SF	F-2 FACTORY	300 SF GROSS	11.32
		3,396.42 SF			11.32
TOTALS		5,668.92 SF			11.32

* NOT ACCESSIBLE DURING NORMAL OPERATION, CONFINED SPACE PERMIT REQUIRED



SCALE: 12" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

BUILDING CODE ANALYSIS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

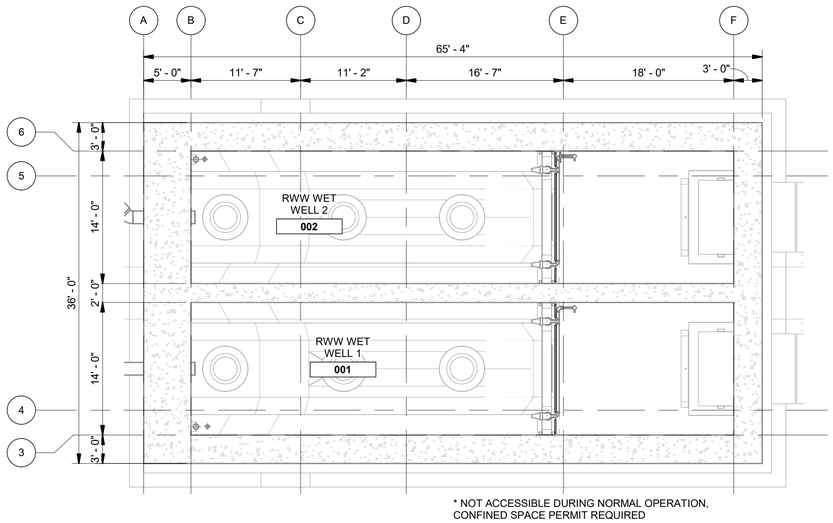
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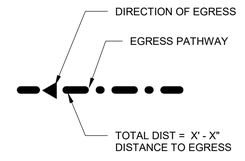


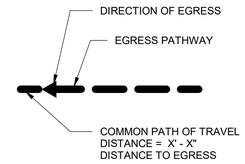
* NOT ACCESSIBLE DURING NORMAL OPERATION, CONFINED SPACE PERMIT REQUIRED

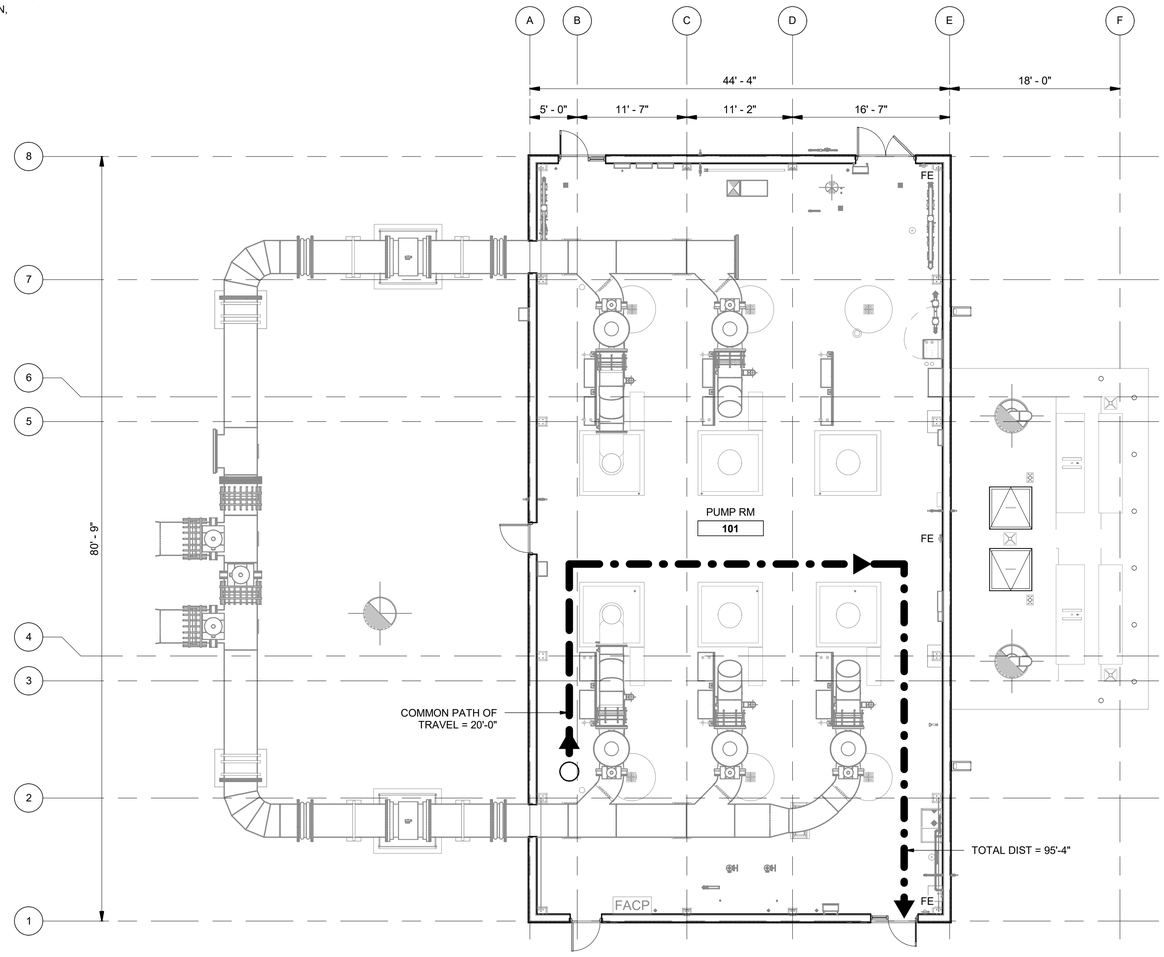
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PLATFORM EGRESS PLAN

SCALE: 1/8" = 1'-0"



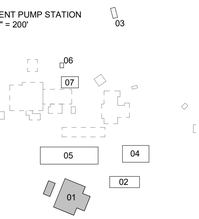




N

MAIN LEVEL EGRESS PLAN

SCALE: 1/8" = 1'-0"



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFIRMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

BUILDING EGRESS PLANS

DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
STATE OF UTAH
04-03-2023

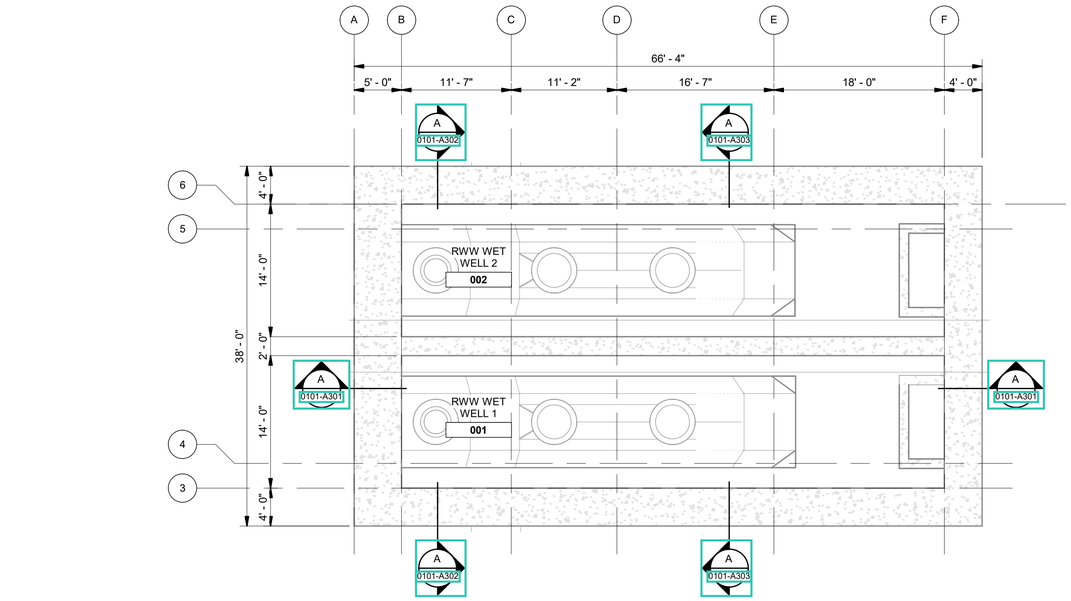
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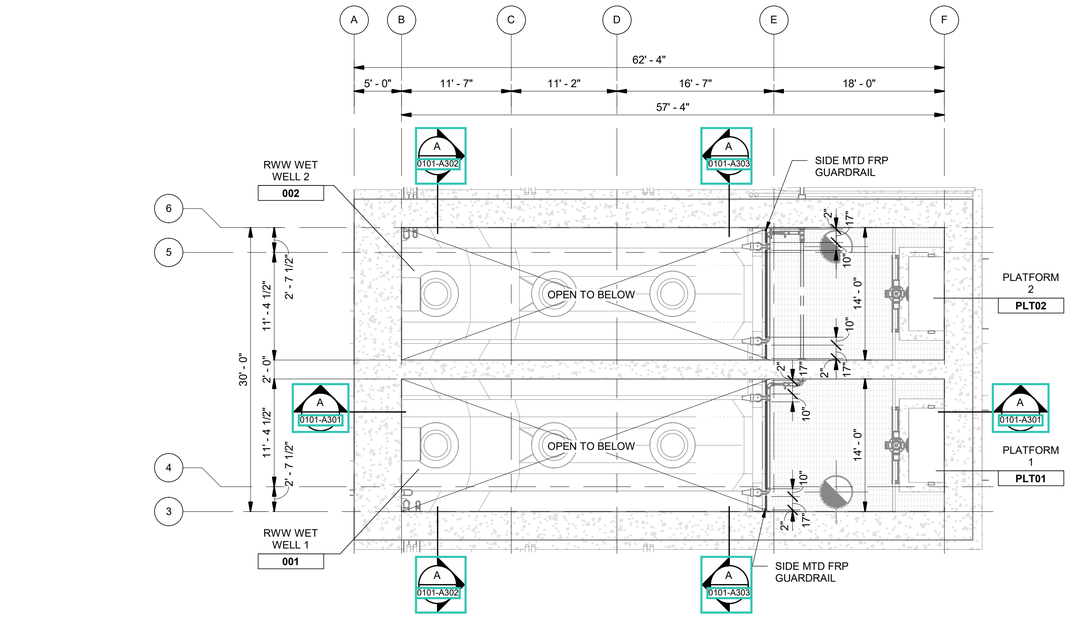
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LOWER LEVEL PLAN

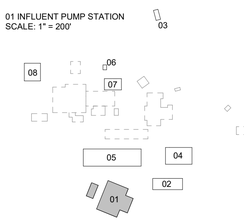
SCALE: 1/8" = 1'-0"



PLATFORM PLAN

SCALE: 1/8" = 1'-0"

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



DATE: 3/29/2023 12:16:16 PM

FILE: BIM 360://6057/2288-Salt Lake City 2019/5240/5350_0101-A001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

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LAST CONFORMED SET:

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WATER RECLAMATION FACILITY
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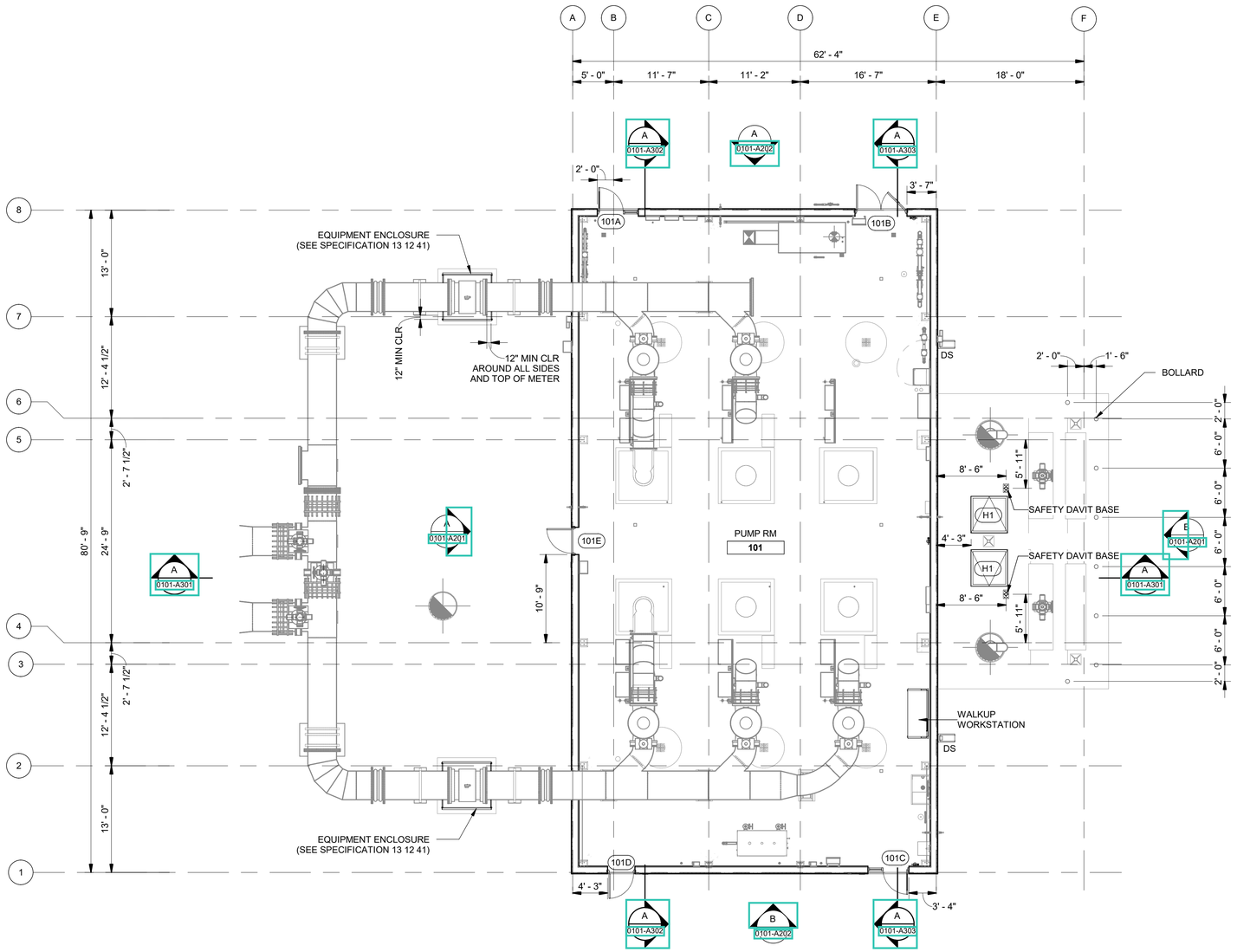
LOWER LEVEL AND PLATFORM PLANS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A101

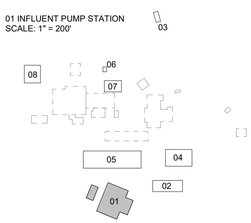
SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



MAIN LEVEL PLAN
SCALE: 1/8" = 1'-0"

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	D. BLOOD
DRAWN BY:	J.WOLFF
CHECKED BY:	M. SCHANTZ
APPROVED BY:	G.DAVIES
DATE:	-
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ACCOUNT NO.:	524905386

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WATER RECLAMATION FACILITY
IPS

MAIN LEVEL PLAN

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

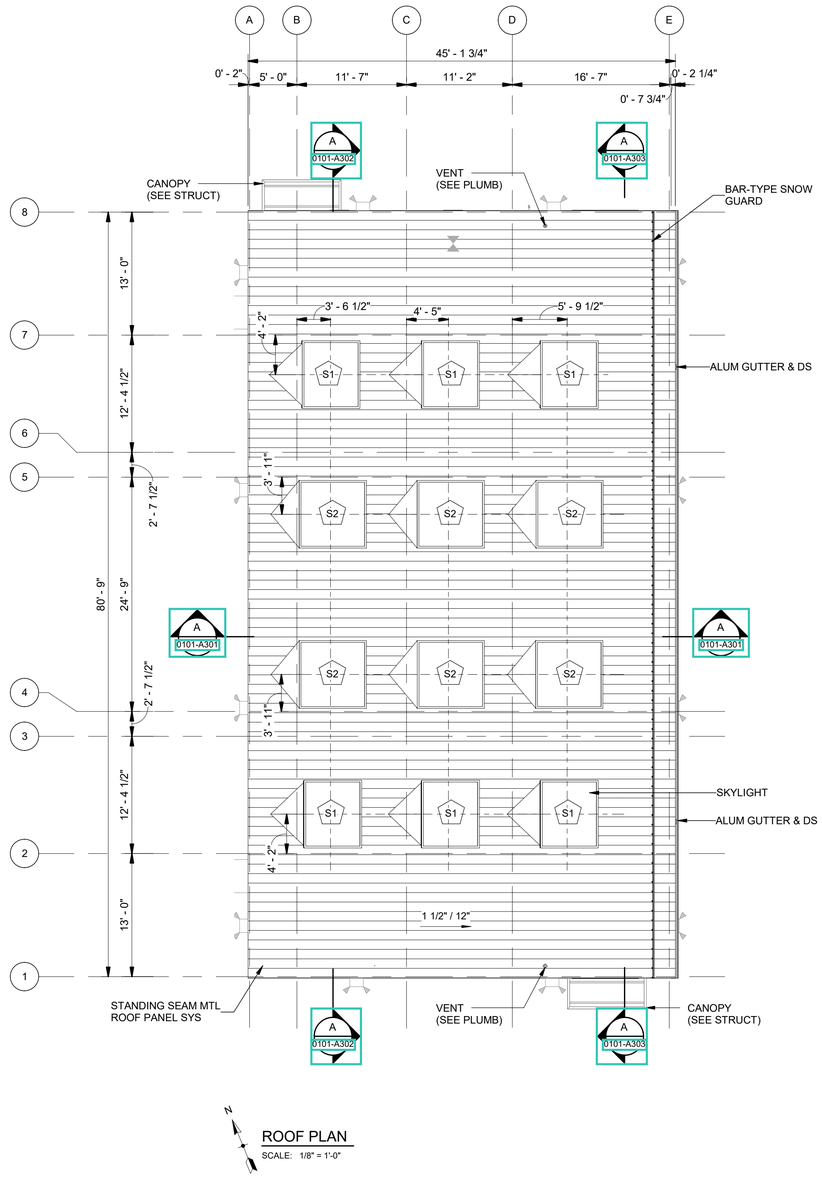
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SHEET _____ OF _____

VERIFY SCALE
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DATE: 3/29/2023 12:10:18 PM

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ROOF PLAN

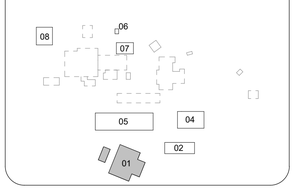
SCALE: 1/8" = 1'-0"

1/2" / 12" ROOF SLOPE

STANDING SEAM METAL ROOF

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

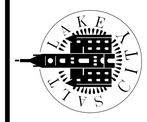
DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

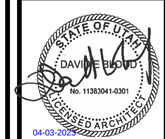
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LAST CONFORMED SET:

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WATER RECLAMATION FACILITY
IPS

ROOF PLAN





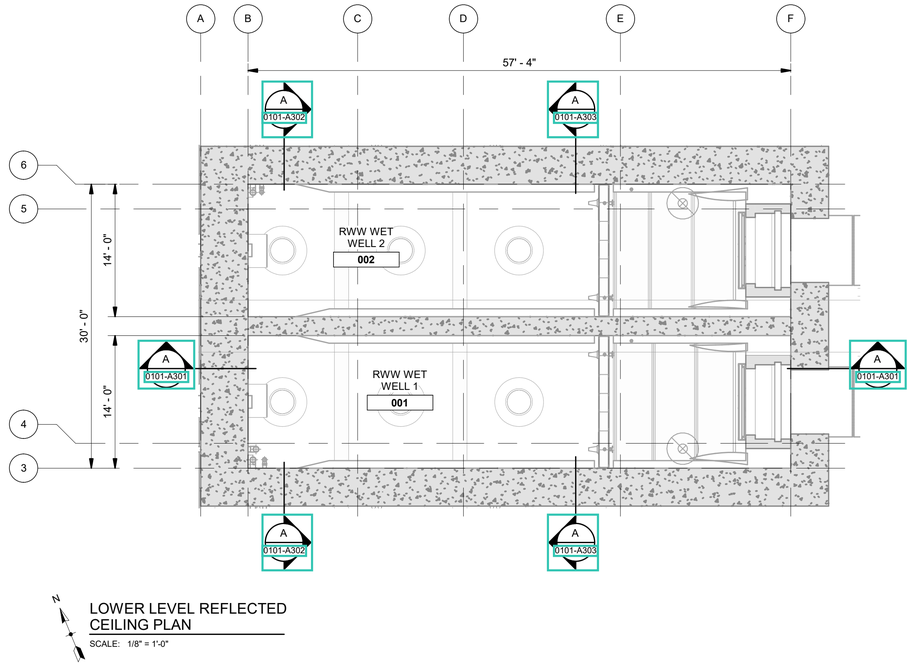
DRAWING No.
0101-A103

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

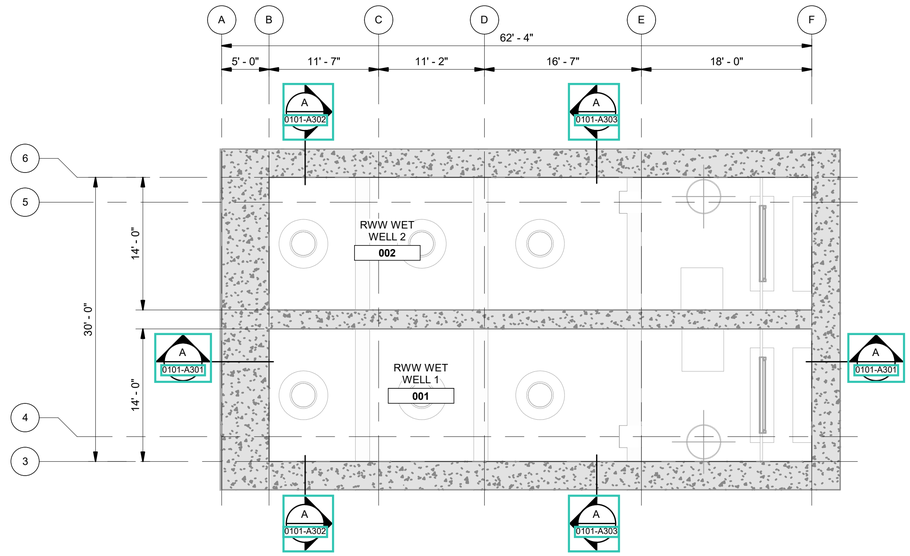
DATE: 3/29/2023 12:10:18 PM

FILE: BIM 360://05722388-Salt Lake City 2019/524905350_0101-A001.rvt



LOWER LEVEL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"



PLATFORM REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE
2. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES

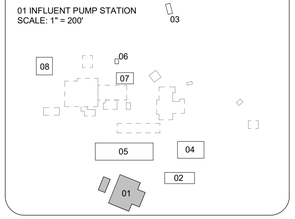
EXPOSED TO STRUCTURE

GRATING

SKYLIGHT

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

LOWER LEVEL AND PLATFORM REFLECTED CEILING PLANS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

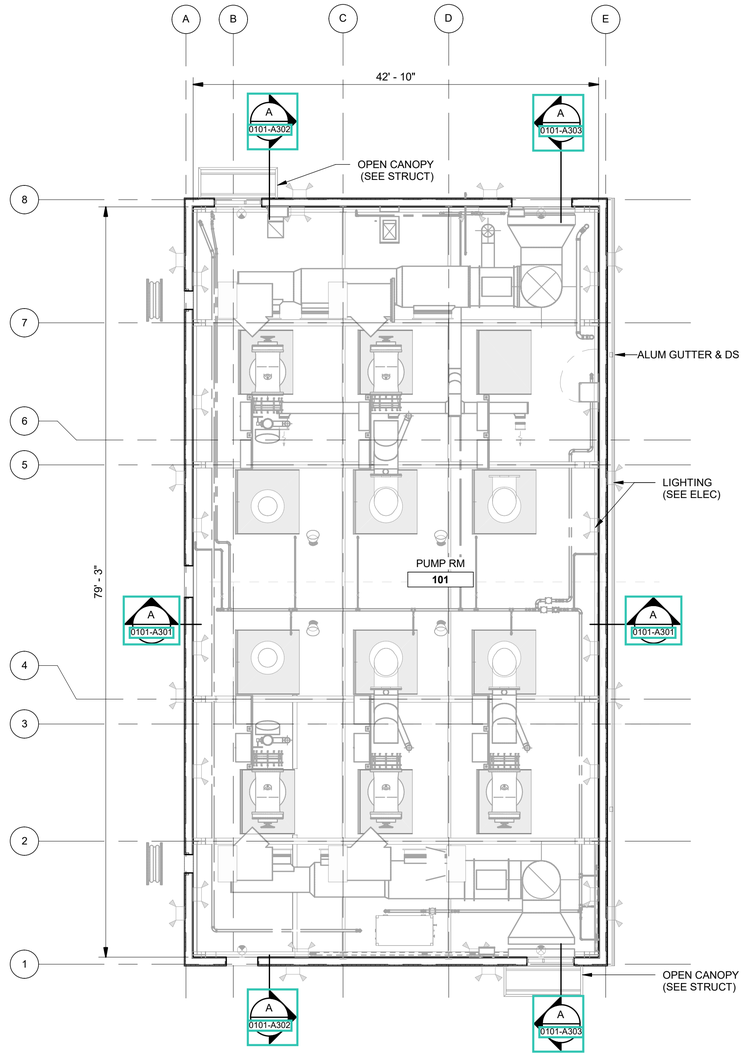
DRAWING No.
0101-A121

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 12:10:20 PM

FILE: BIM 360://05722288-Salt Lake City 2019\524905350_0101-A001.rvt



MAIN LEVEL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE
2. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES

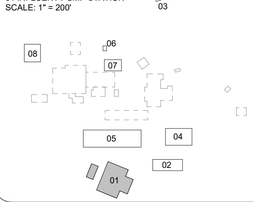
EXPOSED TO STRUCTURE

GRATING

SKYLIGHT

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY:	AUTH. BY:
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL REFLECTED CEILING PLAN

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

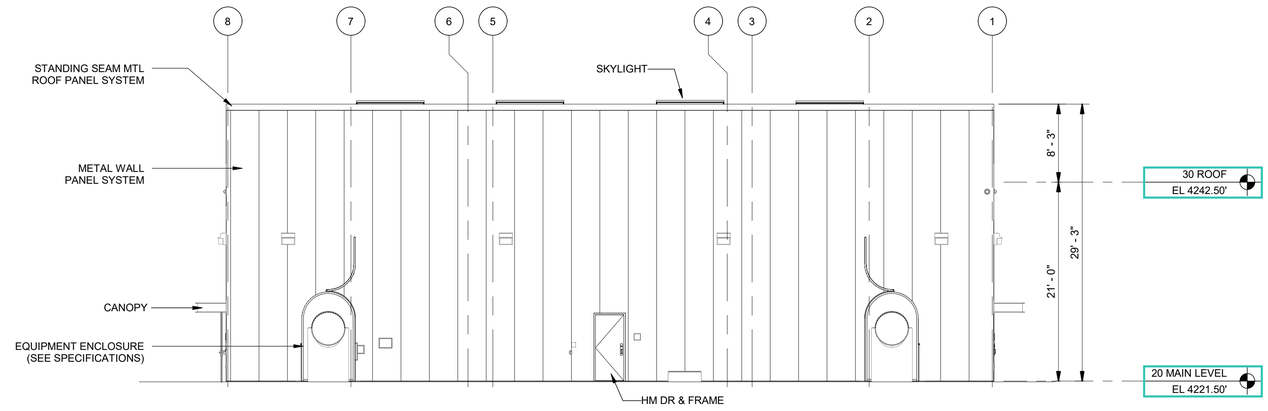
DRAWING No.
0101-A123

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

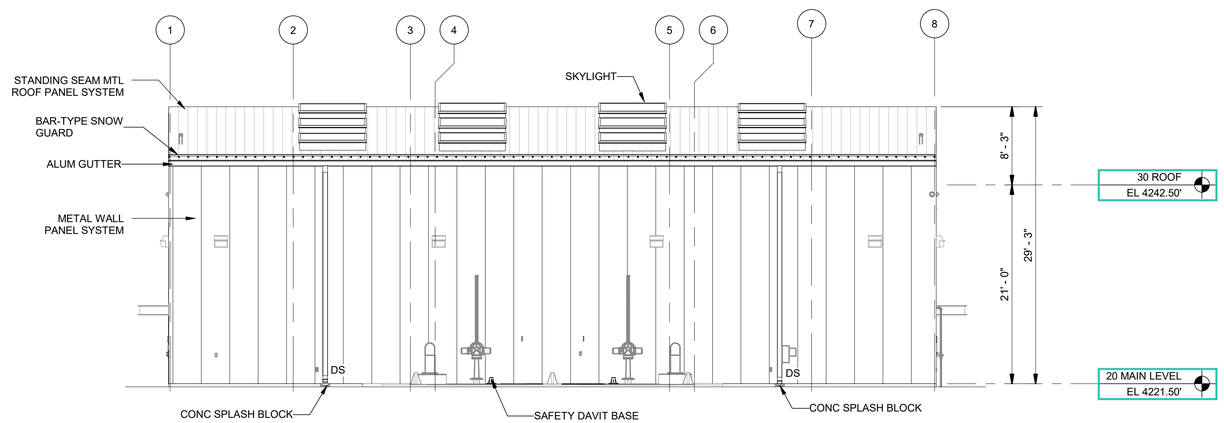
DATE: 3/29/2023 12:10:22 PM

FILE: BIM 360://05/72288-Salt Lake City 2018/524905350/ 0101-A001.rvt



A | WEST EXTERIOR ELEVATION

0101-A102 | SCALE: 1/8" = 1'-0"



B | EAST EXTERIOR ELEVATION

0101-A102 | SCALE: 1/8" = 1'-0"

PEMB WALL PANEL

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

EAST AND SOUTH EXTERIOR ELEVATIONS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

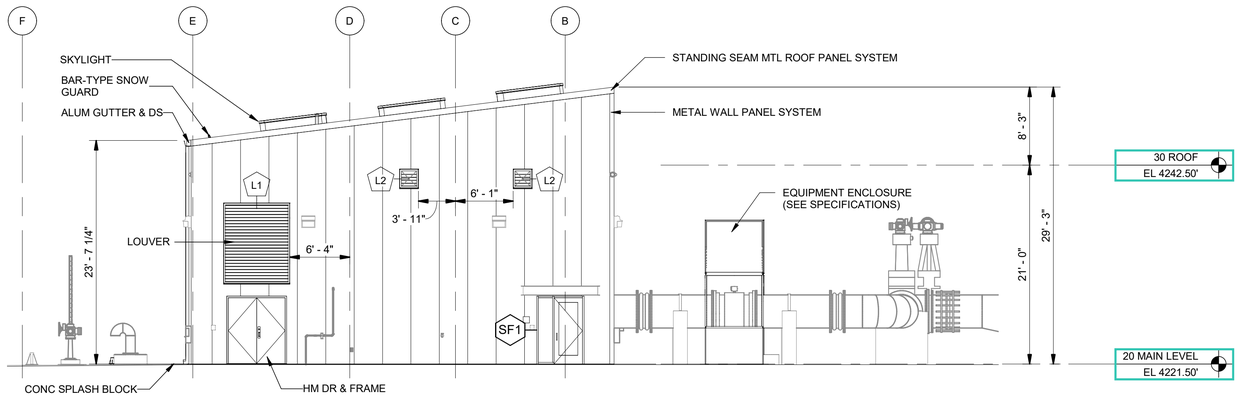
DRAWING No.
0101-A201

SHEET _____ OF _____

VERIFY SCALE | BAR IS ONE INCH ON ORIGINAL DRAWING

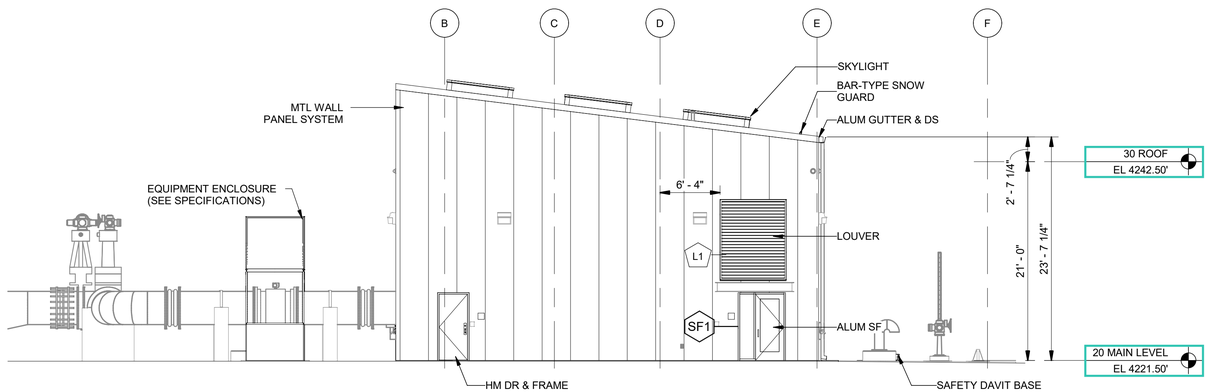
DATE: 3/29/2023 12:10:25 PM

FILE: BIM 360://6572288-Salt Lake City/20185249053S0_0101-A001.rvt



A | NORTH EXTERIOR ELEVATION

0101-A102 | SCALE: 1/8" = 1'-0"



B | SOUTH EXTERIOR ELEVATION

0101-A102 | SCALE: 1/8" = 1'-0"

PEMB WALL PANEL

SCALE: As indicated

PROJECT ADDRESS: 1365 W 2300 N, SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SOUTH AND NORTH EXTERIOR ELEVATIONS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

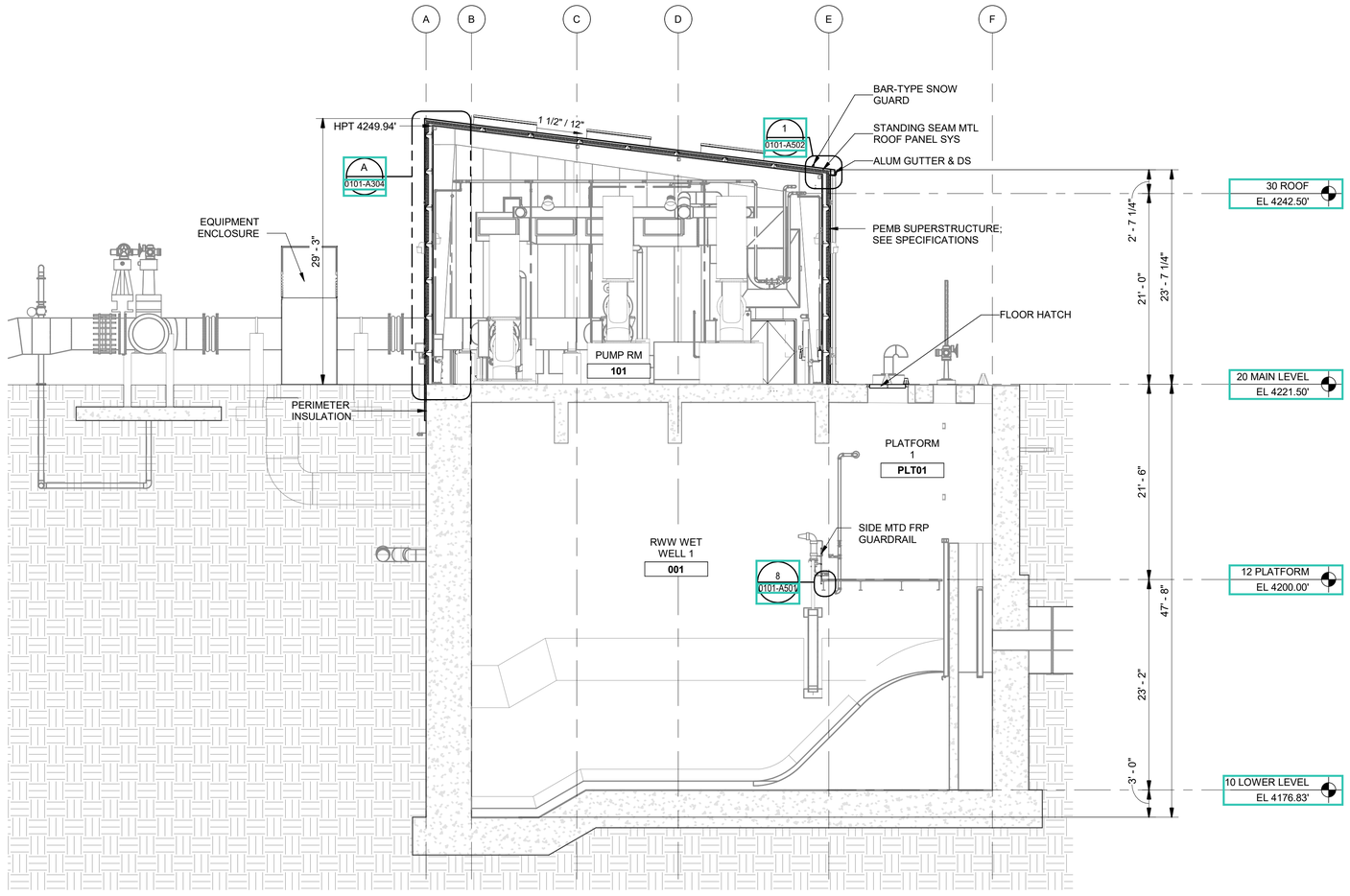
DRAWING No.
0101-A202

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 12:10:28 PM

FILE: BIM 360://6572288-Salt Lake City/20185245905350/ 0101-A001.rvt



A | EAST - WEST BUILDING SECTION
0101-A101 | SCALE: 1/8" = 1'-0"

DATE: 3/29/2023 12:10:31 PM

FILE: BIM 360://6067228-Salt Lake City 2019/5245963530_0101-A001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	D. BLOOD
DRAWN BY:	J. WOLFF
CHECKED BY:	M. SCHANTZ
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

NO.	DATE	REVISIONS	MADE BY:	AUTH. BY:
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

EAST-WEST BUILDING SECTION

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A301

SHEET _____ OF _____

BAR IS ONE INCH ON ORIGINAL DRAWING

VERIFY SCALE

A NORTH-SOUTH BUILDING SECTION
0101-A101 SCALE: 1/8" = 1'-0"

DATE: 3/29/2023 12:10:34 PM

FILE: BIM 360://606729288-Salt Lake City 2019\524903350_0101-A001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY:	AUTH. BY:
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

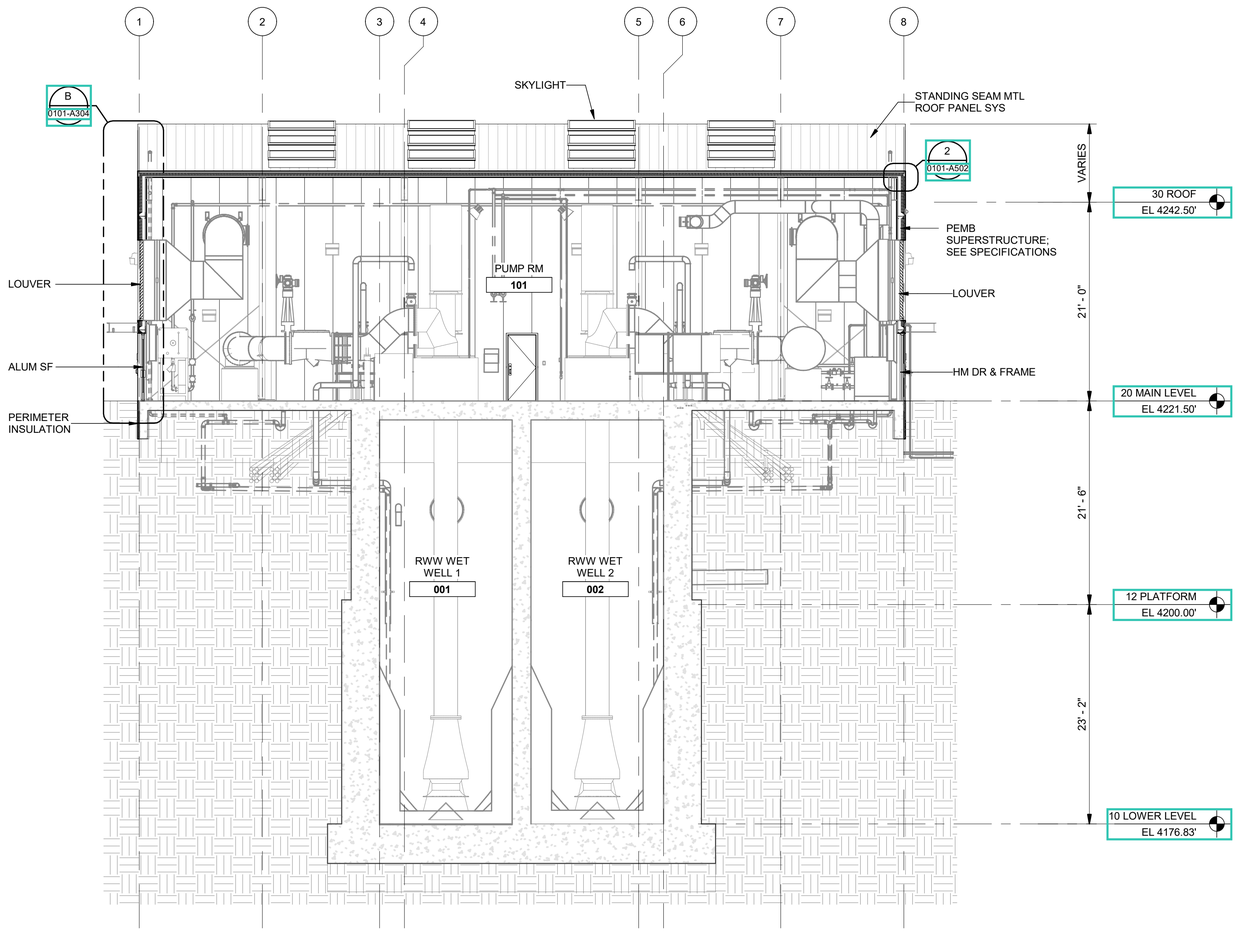
NORTH-SOUTH BUILDING SECTION

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A302

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



A NORTH-SOUTH BUILDING SECTION

0101-A101 | SCALE: 1/8" = 1'-0"

DATE: 3/29/2023 12:10:37 PM

FILE: BIM 360://6567228-Salt Lake City 2018524363530_0101-A001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: W.ZHANG
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY:	AUTH. BY:
A	23-04-03	SW-IA: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

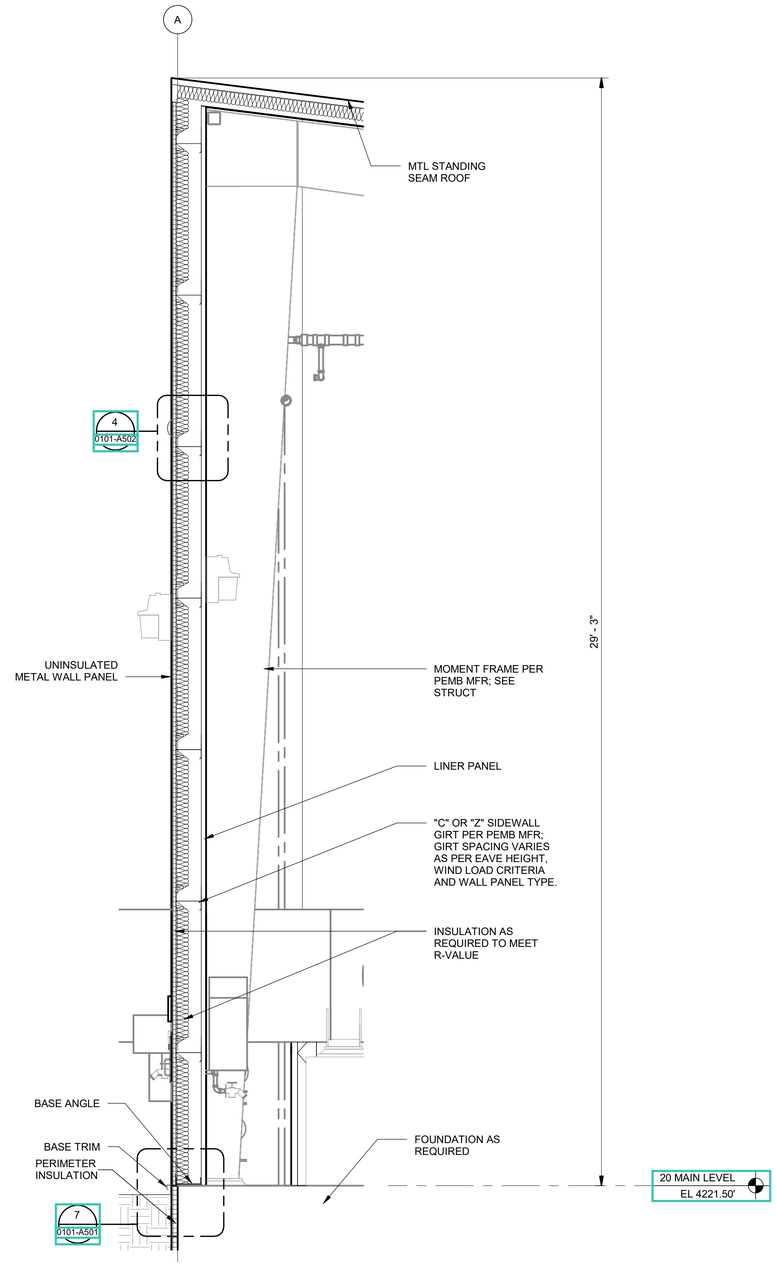
NORTH-SOUTH BUILDING SECTION

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

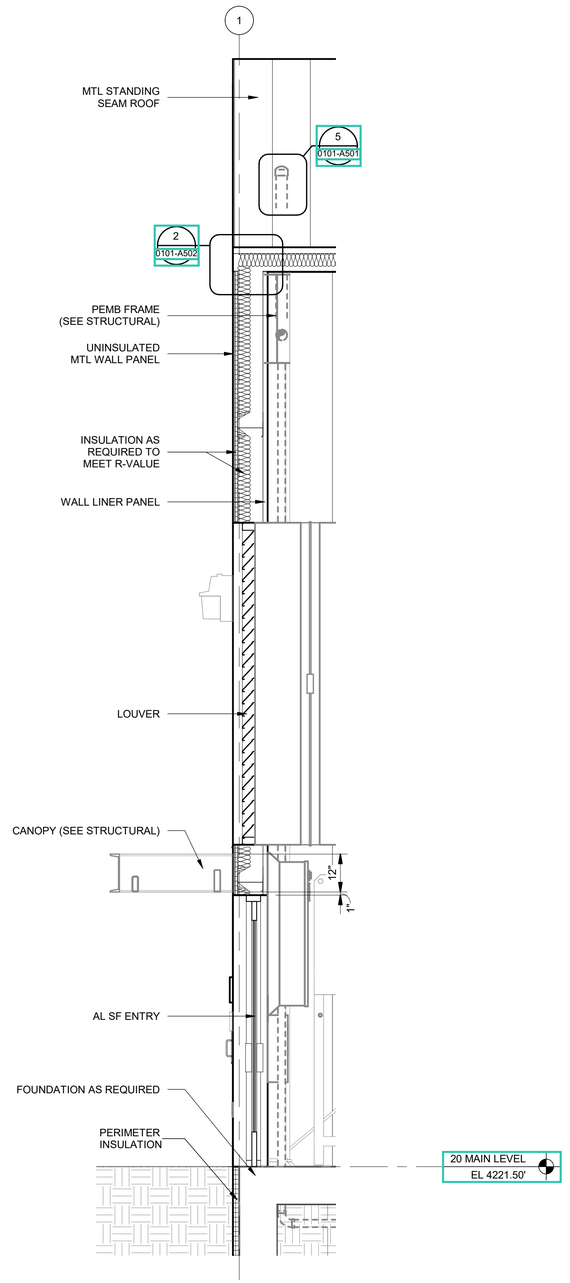
DRAWING No.
0101-A303

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



A | WALL SECTION
0101-A301 | SCALE: 1/2" = 1'-0"



B | WALL SECTION
0101-A303 | SCALE: 1/2" = 1'-0"

DATE: 3/29/2023 12:10:39 PM

FILE: BIM 360:7657:2288-Salt Lake City 2019:524905350_0101-A001.rvt

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

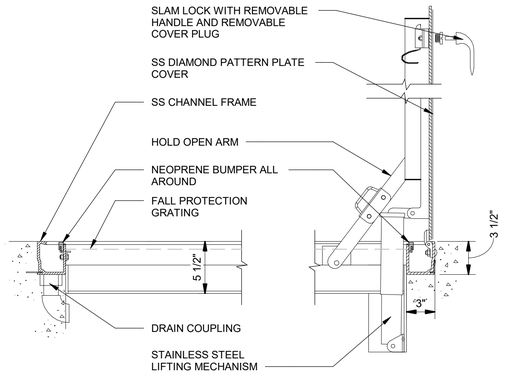
WALL SECTIONS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A304

SHEET _____ OF _____

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

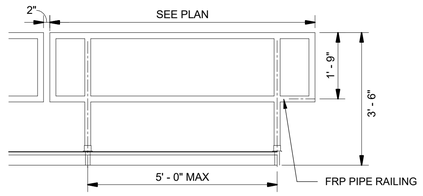


1 | FLOOR HATCH

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

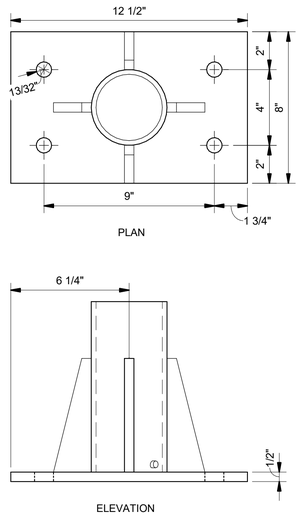
NOTE:

1. GUARDRAIL NOT REQUIRED WHERE EXPOSURE AT VERTICAL EDGE IS LESS THAN 30"



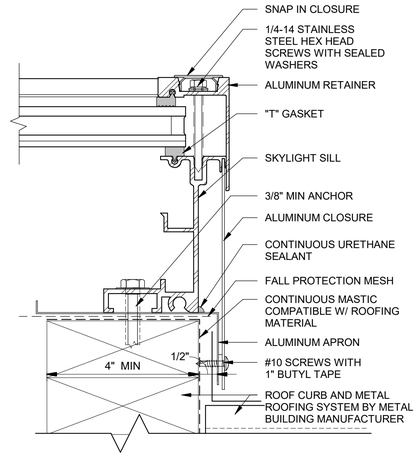
2 | FRP GUARDRAIL

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



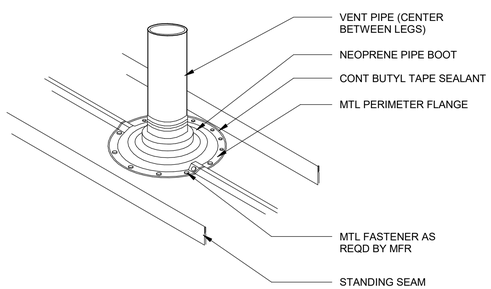
3 | LIFE SAFETY DAVIT BASE

SCALE: 3" = 1'-0"



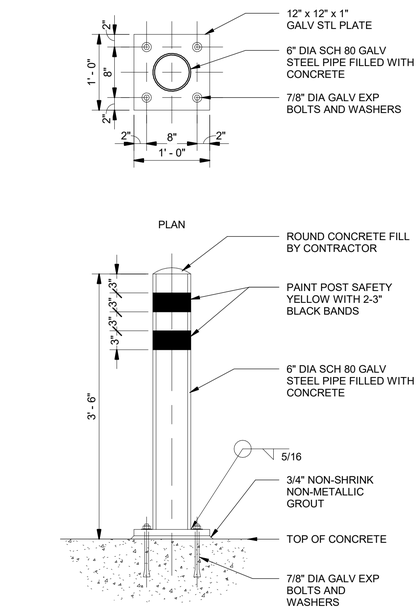
4 | SKYLIGHT FLASHING

0101-A302 | SCALE: 6" = 1'-0"



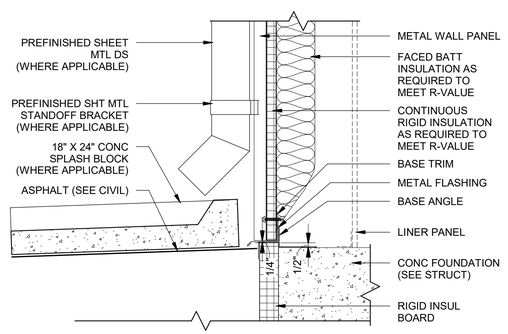
5 | MTL ROOF VENT FLASHING

0101-A304 | SCALE: 1 1/2" = 1'-0"



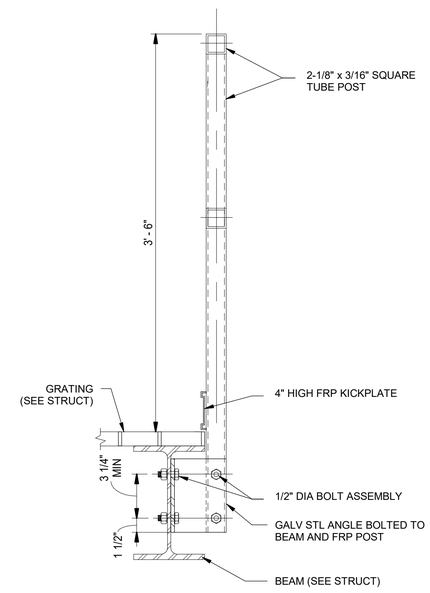
6 | BOLTED BOLLARD DETAIL

SCALE: 1" = 1'-0"



7 | DS @ CONC SPLASHBLOCK

0101-A304 | SCALE: 1 1/2" = 1'-0"



8 | SIDE MOUNTED FRP GUARDRAIL AT PLATFORM

0101-A301 | SCALE: 1 1/2" = 1'-0"

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

DETAILS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

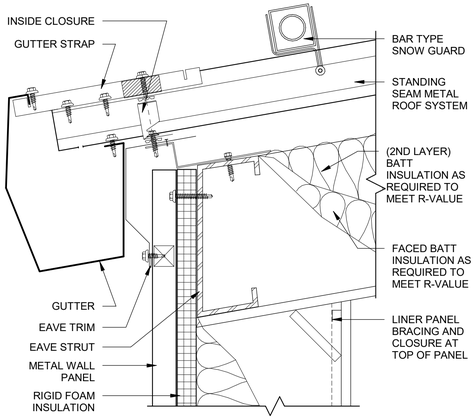
DRAWING No.
0101-A501

SHEET _____ OF _____

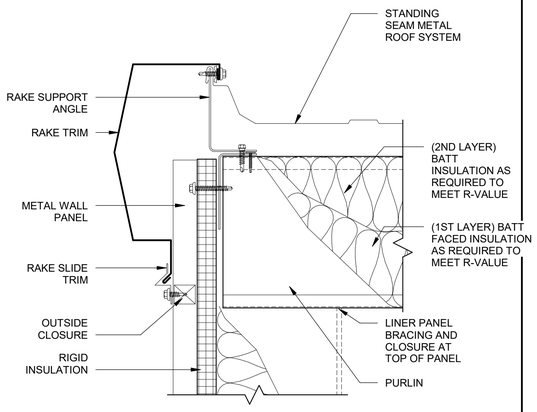
VERIFY SCALE | BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 12:10:40 PM

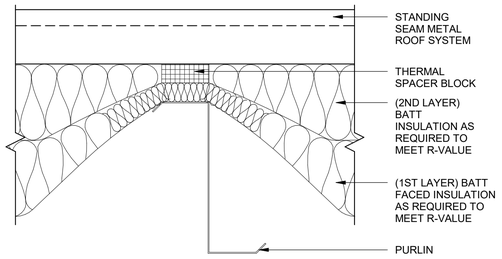
FILE: BIM 360://6572288-Salt Lake City/2018524905350/ 0101-A001.rvt



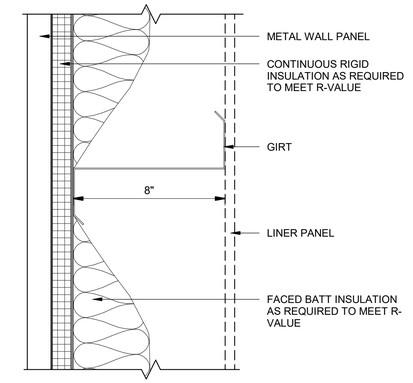
1 | GUTTER AT EAVE
0101-A301 | SCALE: 3" = 1'-0"



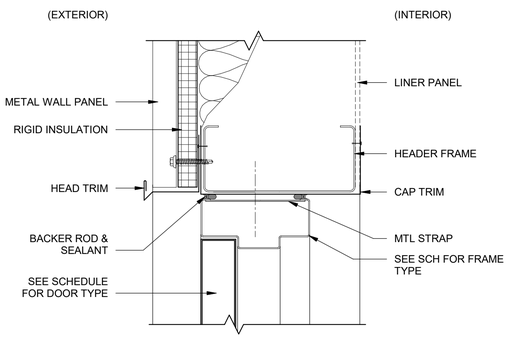
2 | RAKE DETAIL
0101-A302 | SCALE: 3" = 1'-0"



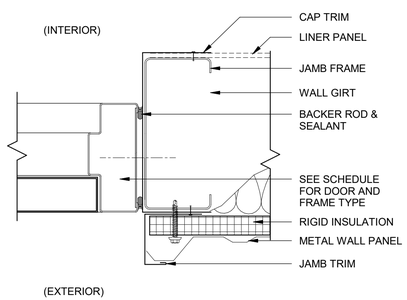
3 | ROOF THERMAL DESIGN
SCALE: 3" = 1'-0"



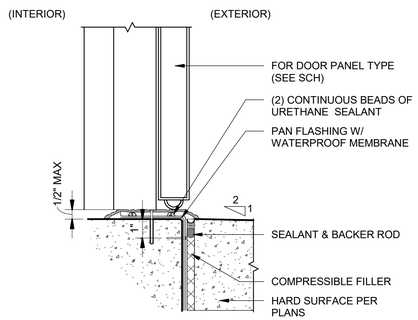
4 | WALL THERMAL DESIGN
0101-A304 | SCALE: 3" = 1'-0"



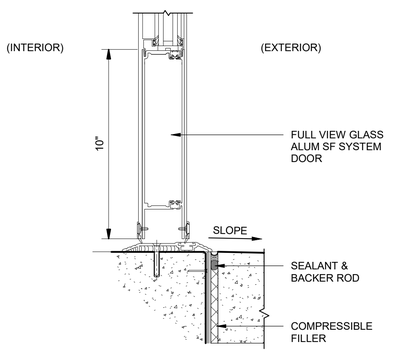
5 | DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



6 | DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



7 | DOOR SILL @ EXTERIOR
SCALE: 3" = 1'-0"



8 | AL SILL @ EXTERIOR GLASS DOOR
0101-A601 | SCALE: 3" = 1'-0"

SCALE: 3" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

DETAILS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

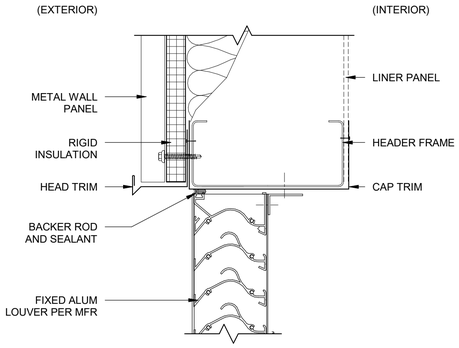
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0101-A502

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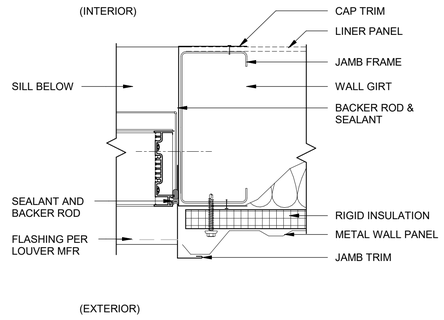
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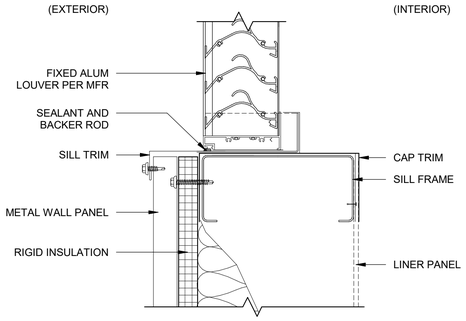
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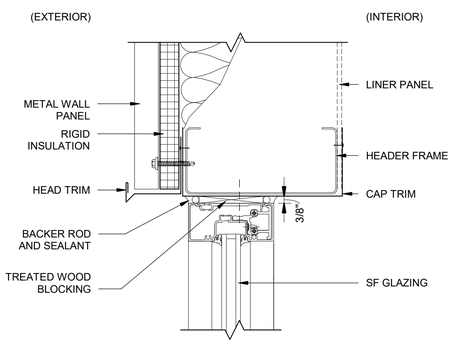
1 | LOUVER HEAD @ PEMB
SCALE: 3" = 1'-0"



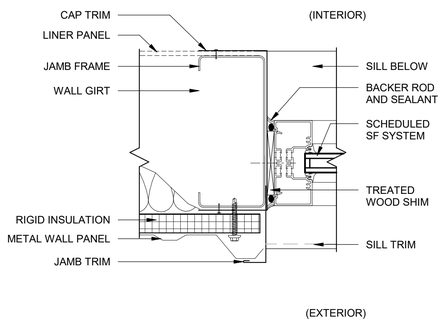
2 | LOUVER JAMB @ PEMB
SCALE: 3" = 1'-0"



3 | LOUVER SILL @ PEMB
SCALE: 3" = 1'-0"



5 | ENTRY SF HEAD @ PEMB
0101-A601 | SCALE: 3" = 1'-0"



6 | ENTRY SF JAMB @ PEMB
0101-A601 | SCALE: 3" = 1'-0"

DATE: 3/29/2023 12:10:42 PM

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SCALE: 3" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

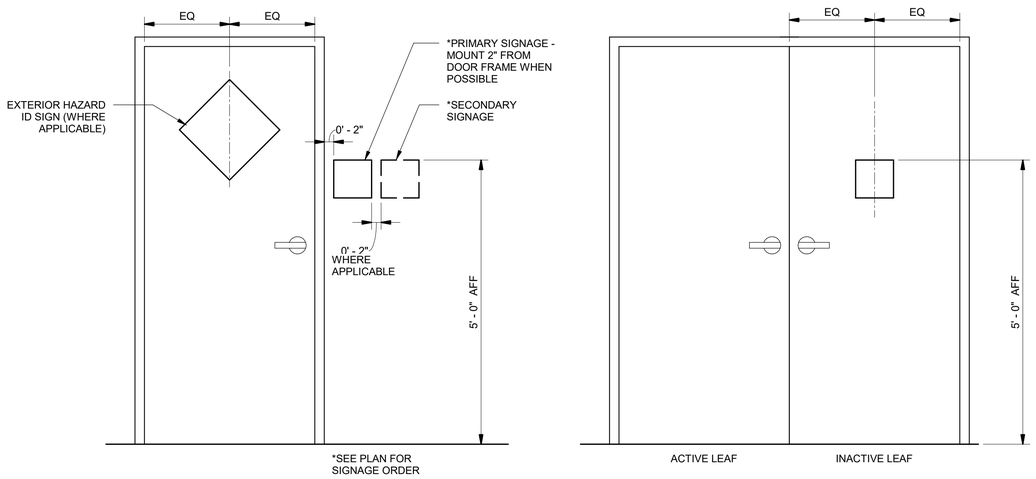
DETAILS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

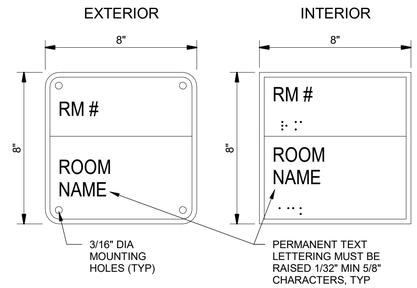
DRAWING No.
0101-A503

SHEET _____ OF _____

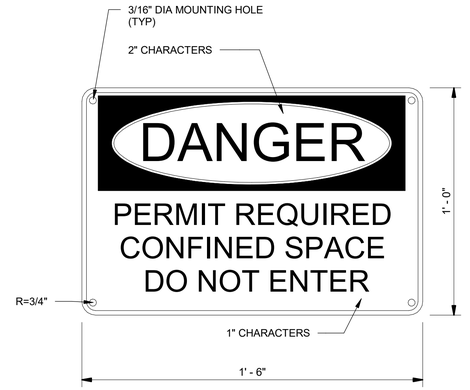
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



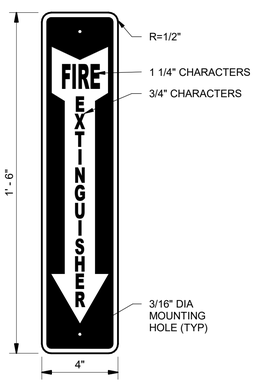
1 | SIGNAGE MOUNTING DIAGRAM
SCALE: 3/4" = 1'-0"



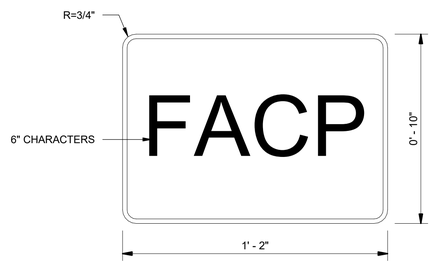
3 | ROOM NAME SIGNS
SCALE: 3" = 1'-0"



4 | CONFINED SPACE SIGN
SCALE: 3" = 1'-0"



5 | FIRE EXTINGUISHER SIGN
SCALE: 3" = 1'-0"



2 | FIRE ALARM CONTROL PANEL SIGN
SCALE: 3" = 1'-0"

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
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LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

DETAILS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A504

SHEET _____ OF _____

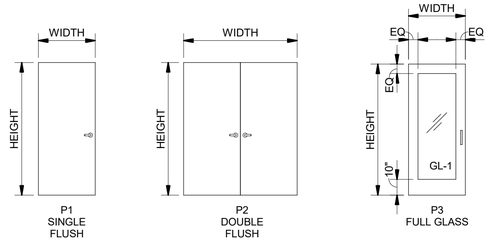
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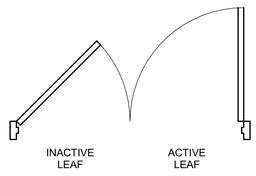
DOOR SCHEDULE

MARK	ROOM	DOOR					FRAME			FIRE RATING	DETAIL			HARDWARE SET	ACCESS CONTROL	COMMENTS
		DOOR TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH		HEAD DEATIL	JAMB DETAIL	SILL DETAIL			
20 MAIN LEVEL																
101A	PUMP RM	P3	3' - 0"	7' - 0"	AL	-	SF1	-	-	-	*	*	*	31	•	*SEE STOREFRONT SCHEDULE ELEVATIONS
101B	PUMP RM	P2	6' - 0"	7' - 0"	HM	PT	F2	HM	PT	-	5 / 0101-A502	6 / 0101-A502	7 / 0101-A502	11	•	
101C	PUMP RM	P3	3' - 0"	7' - 0"	AL	-	SF1	-	-	-	*	*	*	31	•	*SEE STOREFRONT SCHEDULE ELEVATIONS
101D	PUMP RM	P1	3' - 0"	7' - 0"	HM	PT	F1	HM	PT	-	5 / 0101-A502	6 / 0101-A502	7 / 0101-A502	10	•	
101E	PUMP RM	P1	3' - 0"	7' - 0"	HM	PT	F1	HM	PT	-	5 / 0101-A502	6 / 0101-A502	7 / 0101-A502	10	•	



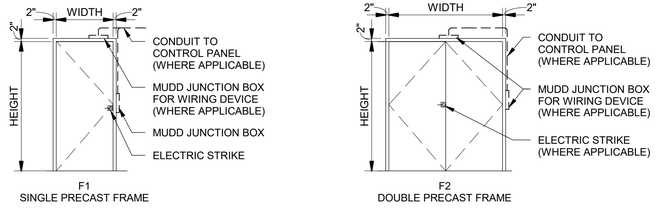
DOOR TYPES

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



DOOR LEAF TYPE

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

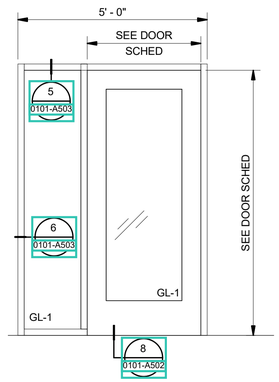


FRAME TYPES

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

STOREFRONT SCHEDULE

MARK	WINDOW TYPE	HEIGHT AFF	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
20 MAIN LEVEL						
SF1	STOREFRONT TYPE A	0' - 0"	*	*	*	SEE STOREFRONT SCHEDULE ELEVATIONS



STOREFRONT TYPE A

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

1. DOOR AND FRAME ASSEMBLIES SHALL COMPLY WITH REQUIREMENTS INDICATED IN THE DOOR AND FRAME SCHEDULE, GENERAL NOTES, AND DETAILS REFERENCED FROM DOOR AND FRAME DIAGRAMS, UNO.
2. THE "MARK" REFERS TO THE DOOR TAG FOR EACH DOOR OPENING AS INDICATED ON THE FLOOR PLANS.
3. THE "ROOM", WHERE INDICATED, REFERS TO THE LOCATION OF THE DOOR INDICATED ON THE FLOOR PLANS.
4. THE "DOOR TYPE" REFERS TO THE DOOR PANEL ASSEMBLY INDICATED BY THE "DOOR TYPES" DIAGRAM.
5. THE "DOOR TYPE", "DOOR FINISH" AND "DOOR MATERIAL" INDICATE REQUIREMENTS FOR THE DOOR PANEL ASSEMBLY(IES).
6. THE "DOOR PANEL WIDTH" INDICATES THE NOMINAL WIDTH OF EACH DOOR PANEL IN THE ASSEMBLY DOOR THICKNESSES SHALL BE 1-3/4", UNO.
7. THE DOOR "HEIGHT" INDICATES THE NOMINAL HEIGHT OF THE DOOR PANEL(S) IN THE ASSEMBLY.
8. THE "FRAME TYPES" REFERS TO THE FRAME ASSEMBLY INDICATED BY THE "FRAME TYPES" DIAGRAM. THE SCHEDULE REFERENCES HEAD - JAMB - SILL DETAILS RELATED TO THE ASSEMBLY, UNO.
9. THE "FRAME TYPES", AND "FRAME FINISH" INDICATE REQUIREMENTS FOR TO THE FRAME ASSEMBLY, AS SHOWN IN THE CORRESPONDING LEGENDS. REFER TO THE DOOR TYPE DIAGRAM FOR LOCATION OF GLASS TYPES.
10. THE "GLAZING TYPE" INDICATES THE GLAZING PANEL ASSEMBLY.
11. THE "HARDWARE SET NO" INDICATES THE HARDWARE GROUP APPLICABLE TO THE DOOR-FRAME ASSEMBLY.
12. THE "ACCESS CONTROLS" (WHEN MARKED) INDICATES THE DOOR-FRAME ASSEMBLY(IES) THAT REQUIRE ACCESS CONTROLS.

DOOR TYPE LEGEND

P1	SINGLE FLUSH PANEL DOOR
P2	DOUBLE FLUSH PANEL DOOR
P3	SF GLAZED DOOR (SEE WINDOW SCHEDULE FOR FRAME TYPE)

DOOR MATERIAL LEGEND

HM	HOLLOW METAL ASSEMBLY
FRP	FIBERGLASS REINFORCED PLASTIC
ALUM	ALUMINUM

FIRE RATING LEGEND

--	NO RATING
45	45 MIN RATED DOOR AND FRAME ASSEMBLY
60	60 MIN RATED DOOR AND FRAME ASSEMBLY

FINISH TYPE LEGEND

-	NOT APPLICABLE
PT	PAINTED FINISH

SF PANEL TYPE LEGEND

GL-1	INSULATED SAFETY GLAZING

SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY:	AUTH. BY:
A	23-04-03	JW	DB

LAST CONFORMED SET: SW-1A: ISSUED FOR BID

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

DOOR & STOREFRONT SCHEDULES

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0101-A601

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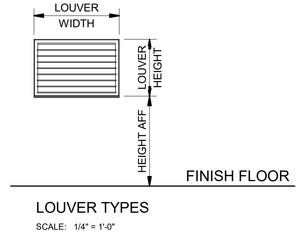
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MATERIAL & FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	EXPOSURE	COMMENTS
				N	S	E	W			
10 LOWER LEVEL										
001	RWW WET WELL 1	PC-1	PC-1	PC-1	PC-1	PC-1	PC-1	PC-1	HIGHLY CORROSIVE	SEE SECTION 09 91 13
002	RWW WET WELL 2	PC-1	PC-1	PC-1	PC-1	PC-1	PC-1	PC-1	HIGHLY CORROSIVE	SEE SECTION 09 91 13
12 PLATFORM										
PLT01	PLATFORM 1	FRP	-	PC-1	PC-1	PC-1	-	PC-1	HIGHLY CORROSIVE	SEE SECTION 09 91 13
PLT02	PLATFORM 2	FRP	-	PC-1	PC-1	PC-1	-	PC-1	HIGHLY CORROSIVE	SEE SECTION 09 91 13
20 MAIN LEVEL										
101	PUMP RM	CONC S-3	-	-	-	-	-	-	MILDLY CORROSIVE	

LOUVER SCHEDULE

MARK	LOUVER WIDTH	LOUVER HEIGHT	HEIGHT AFF	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
20 MAIN LEVEL							
L1	7' - 0"	8' - 6"	8' - 6"	1 / 0101-A503	2 / 0101-A503	3 / 0101-A503	
L2	2' - 0"	2' - 0"	18' - 7"	1 / 0101-A503	2 / 0101-A503	3 / 0101-A503	



LOUVER TYPES

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

HATCH SCHEDULE

MARK	DOOR TYPE	HATCH WIDTH	HATCH LENGTH	DETAIL	COMMENTS
20 MAIN LEVEL					
H1	FLOOR HATCH	4' - 0"	4' - 0"	1 / 0101-A501	GASKETED

SKYLIGHT SCHEDULE

MARK	SKYLIGHT WIDTH	SKYLIGHT LENGTH	DETAIL
S1	6' - 0"	7' - 0"	4 / 0101-A501
S2	7' - 0"	7' - 0"	4 / 0101-A501

CONC	CONCRETE, SEE SECTION 03 35 01 FOR FINISH DESIGNATIONS
FRP	FIBER-REINFORCED PLASTIC
PC-1	PATCHING COMPOUND
-	UNFINISHED/OPEN TO STRUCTURE

SCALE: As indicated

PROJECT ADDRESS: 1365 W 2300 N, SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MISCELLANEOUS SCHEDULES

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

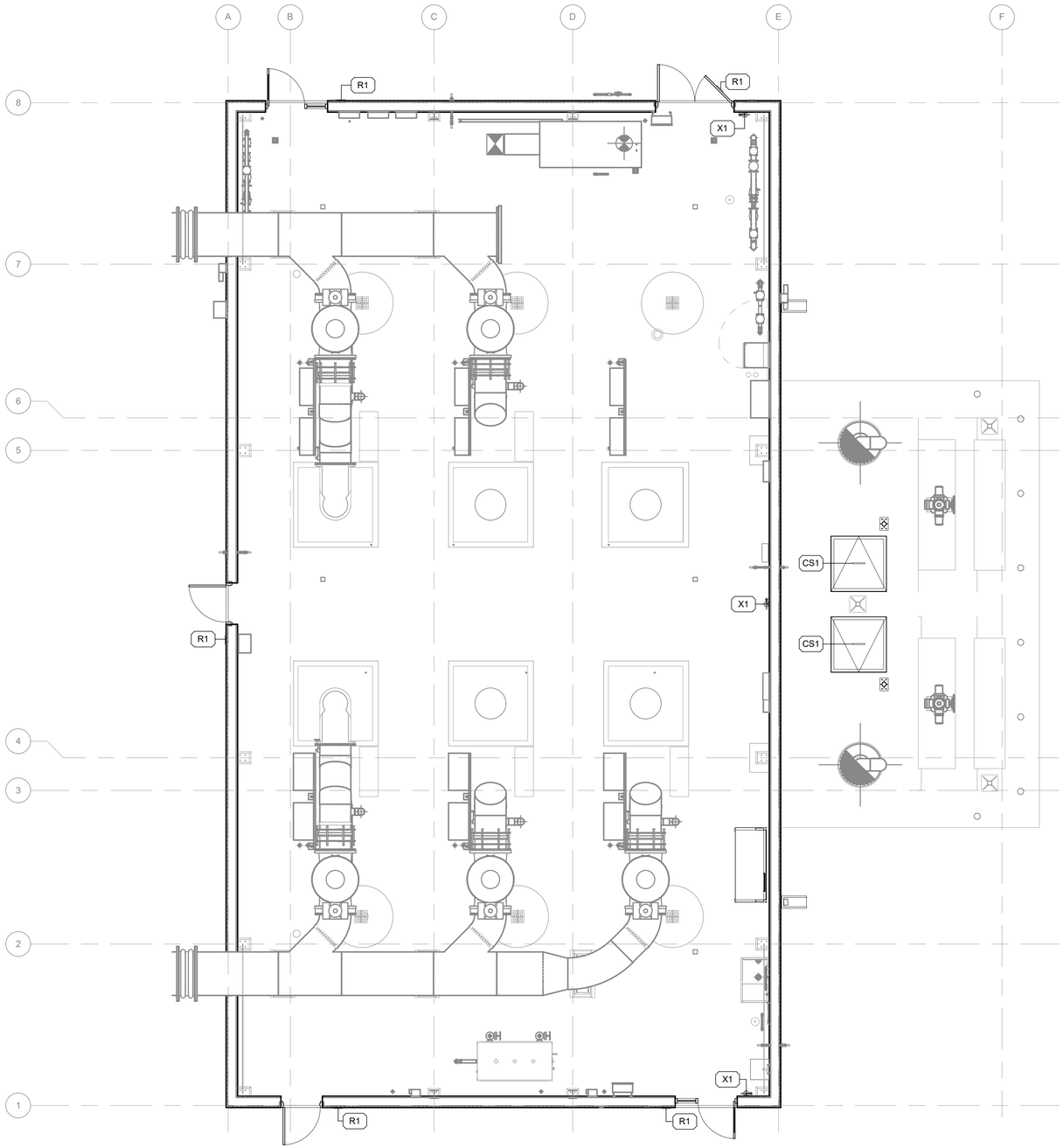
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MAIN LEVEL SIGNAGE SCHEDULE

MARK	TYPE	DETAILS			PLACEMENT (1 / 0101-A504)	
		DETAIL NUMBER	SIGN ROOM #	SIGN ROOM NAME	PRIMARY SIGNAGE	SECONDARY SIGNAGE
CS1	CONFINED SPACE SIGN	4 / 0101-A504	-	-		
R1	ROOM SIGN	3 / 0101-A504	101	PUMP RM	•	
X1	FIRE EXTINGUISHER SIGN	5 / 0101-A504	-	-		

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J.WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524605386

REVISIONS

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A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

SIGNAGE PLAN SCHEDULE DETAIL

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

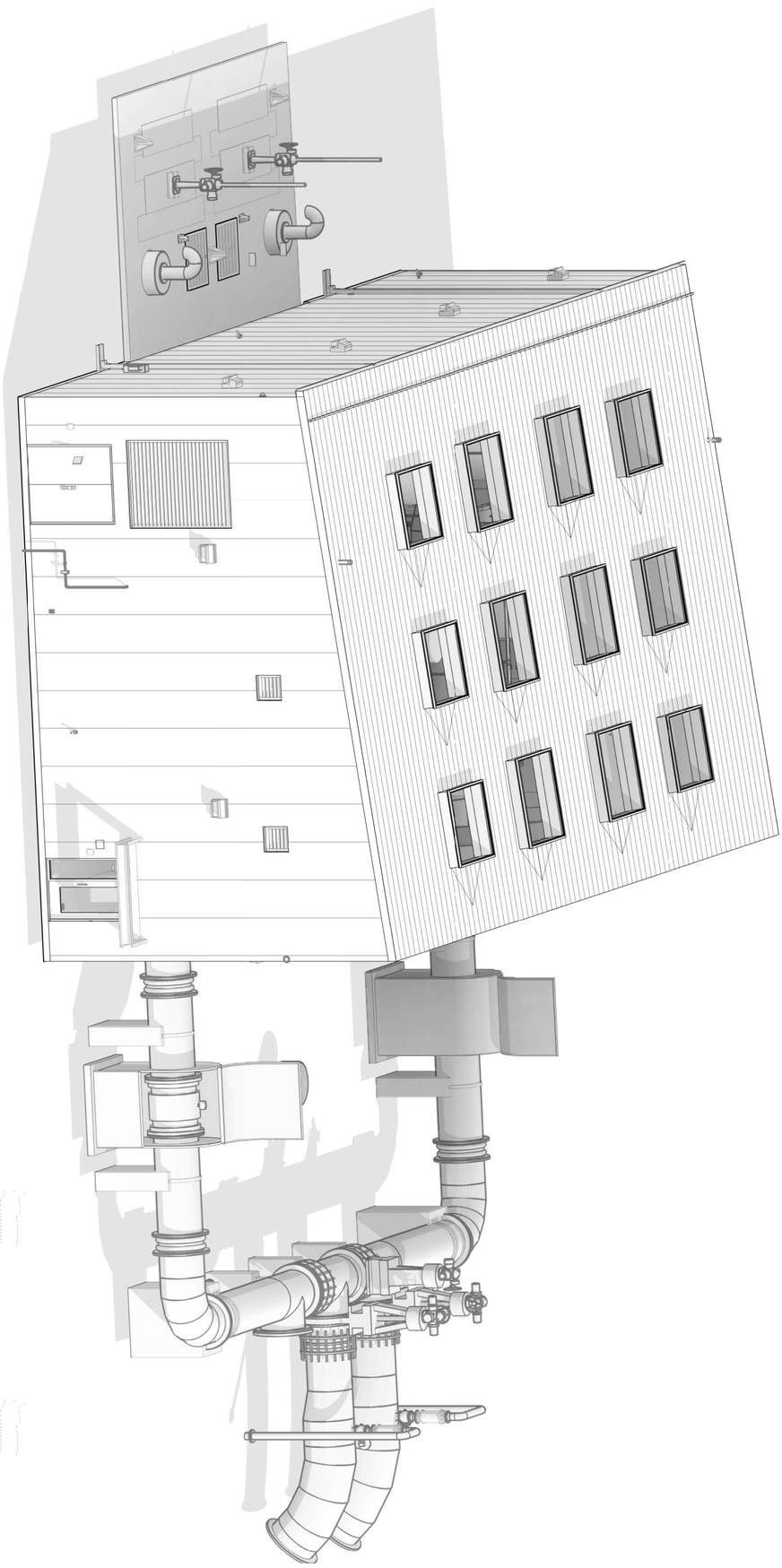
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SHEET _____ OF _____

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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

3D ISOMETRIC

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: - -
EWO NO.: -
ACCOUNT NO.: 524905396

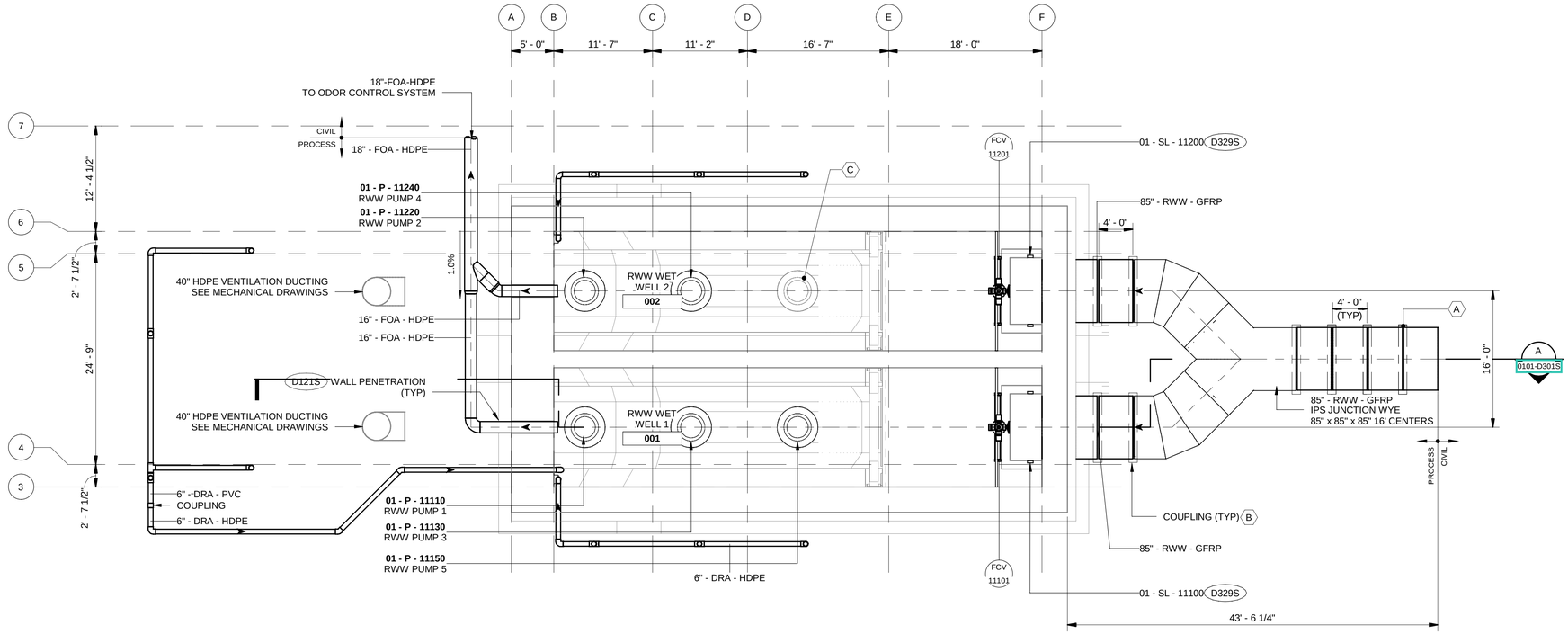
SCALE:

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

SHEET ____ OF ____
DRAWING No. 0101-A901

04-03-2023
STATE OF UTAH
DAVID E. BUTLER
No. 11283344-5301
REGISTERED ARCHITECT

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



LOWER LEVEL PLAN

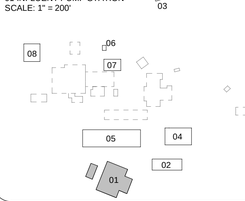
SCALE: 1/8" = 1'-0"

KEYNOTES

A. THE COUPLINGS ARE TO BE CENTERED ON THE EDGE OF EXCAVATION FOR IPS WET WELLS.
B. THE COUPLINGS ARE TO BE POSITIONED AS CLOSE TO WET WELL AS PRACTICAL.
C. CONTRACTOR TO PROVIDE BID ALTERNATE PRICING TO INSTALL 6TH PUMP DURING CONSTRUCTION.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	S.COLE
DRAWN BY:	H.LEVY
CHECKED BY:	R.SCHROEDEL
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

REVISIONS

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A	23-04-03 SW-1A: ISSUED FOR BID	HL	SC

LAST CONFORMED SET: -

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WATER RECLAMATION FACILITY
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LOWER LEVEL PROCESS PIPING PLAN





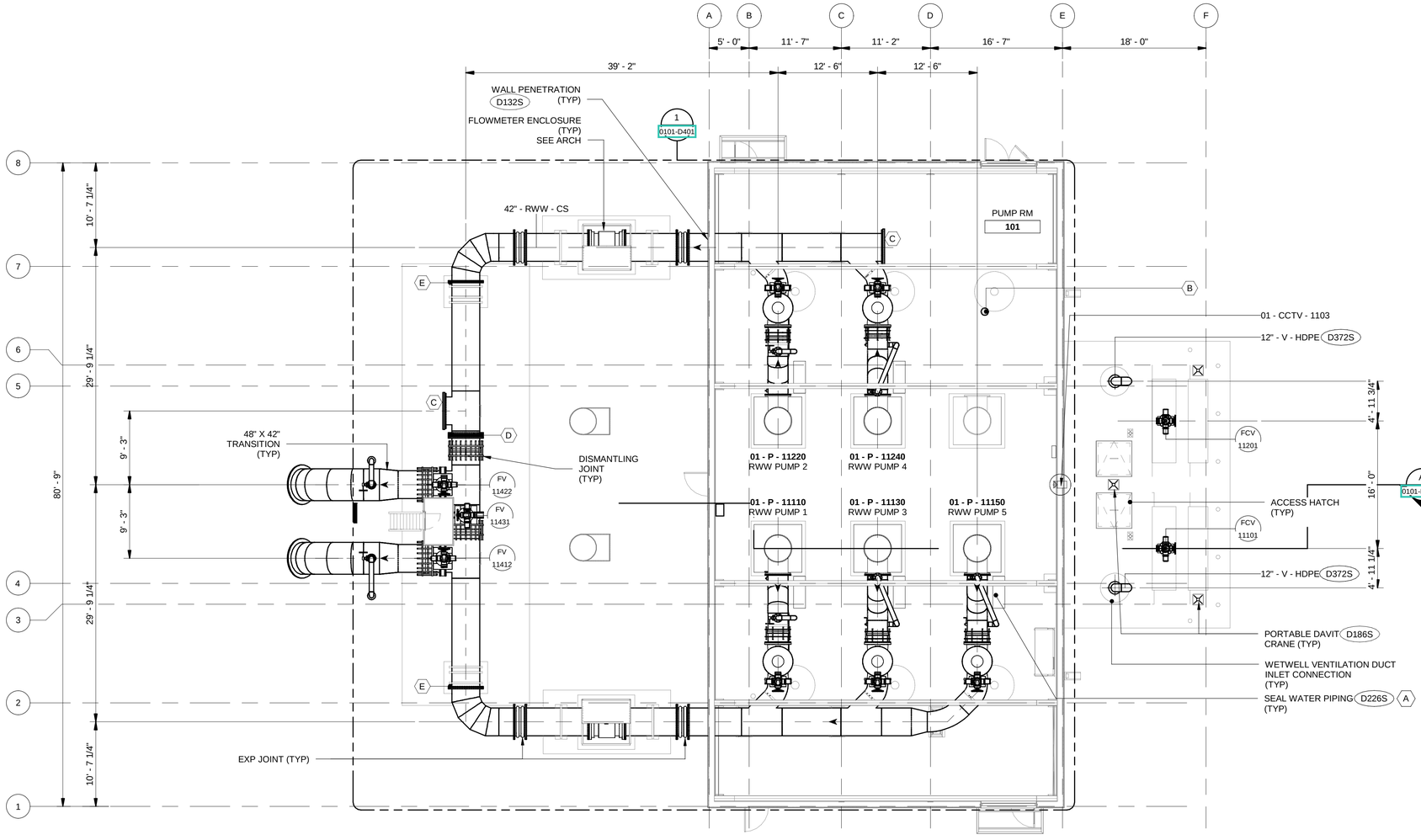
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MAIN LEVEL PLAN

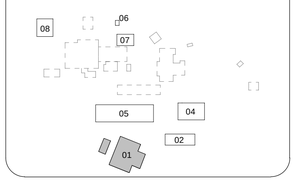
SCALE: 1/8" = 1'-0"

KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. INSTALL BLIND FLANGE FLUSH WITH MAIN LEVEL ON FUTURE PUMP DRAIN AND PAINT TOP OF FLANGE YELLOW.
C. BLIND FLANGES FOR FUTURE CONNECTONS.
D. SPACER TO BE FABRICATED WITH SAME LAY LENGTH AS FV-11431.
E. COORDINATE FLANGE W/SHEET 0101-S503 - PIPE SUPPORT TYPE 2.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	S.COLE
DRAWN BY:	H.LEVY
CHECKED BY:	R.SCHROEDEL
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

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LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL PROCESS PIPING PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

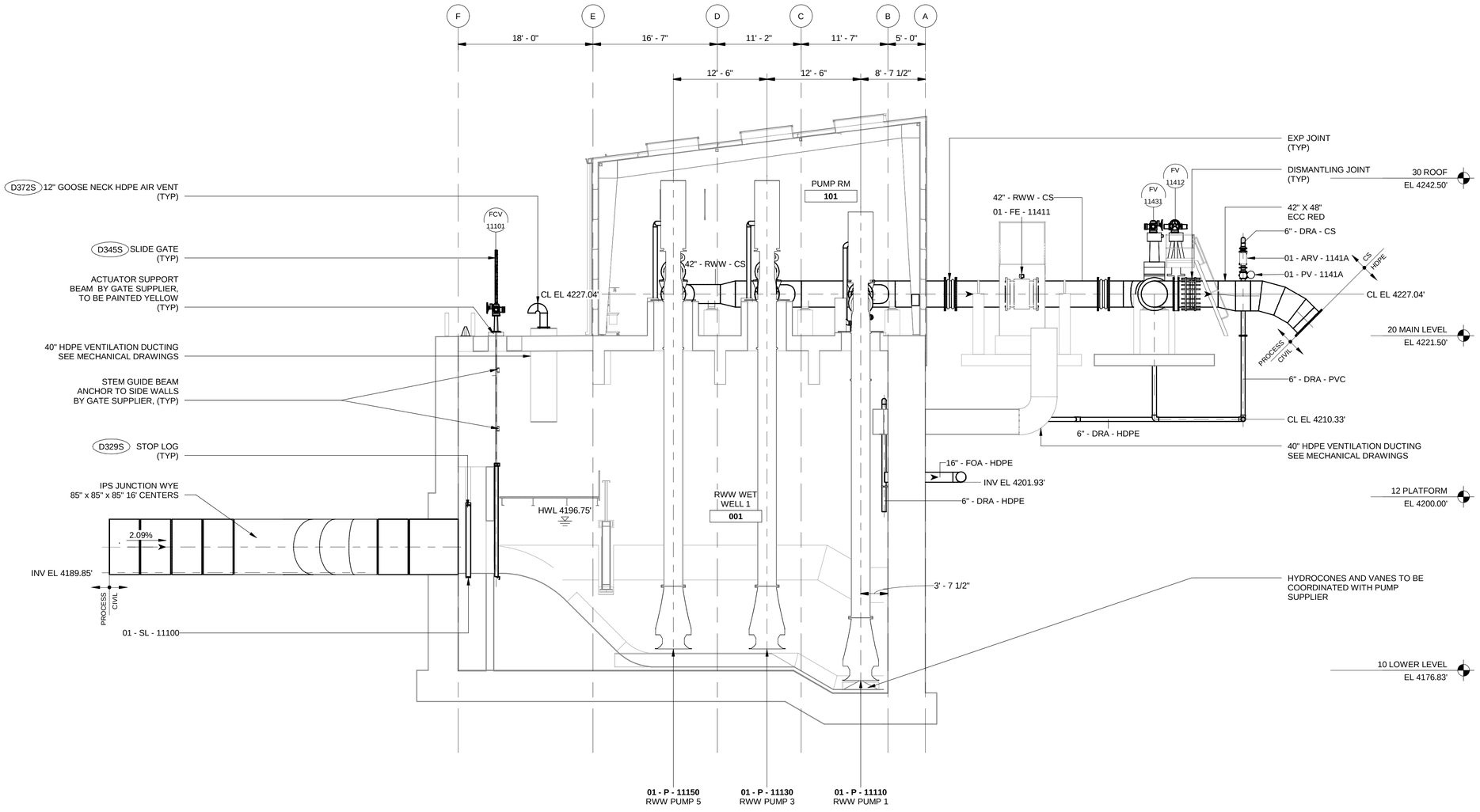
DRAWING No.
0101-D102

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 2:06:05 PM

FILE: BIM 360://6057288-Salt Lake City 2019/524905360_0101-D001.rvt



A | SECTION

0101-D101S | SCALE: 1/8" = 1'-0"

DATE: 3/29/2023 2:05:07 PM

FILE: BIM 360://6057228l-Salt Lake City 2019/524905350_0101-D001.rvt

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	HL / SC

ISSUED FOR BID

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PROCESS PIPING SECTIONS

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

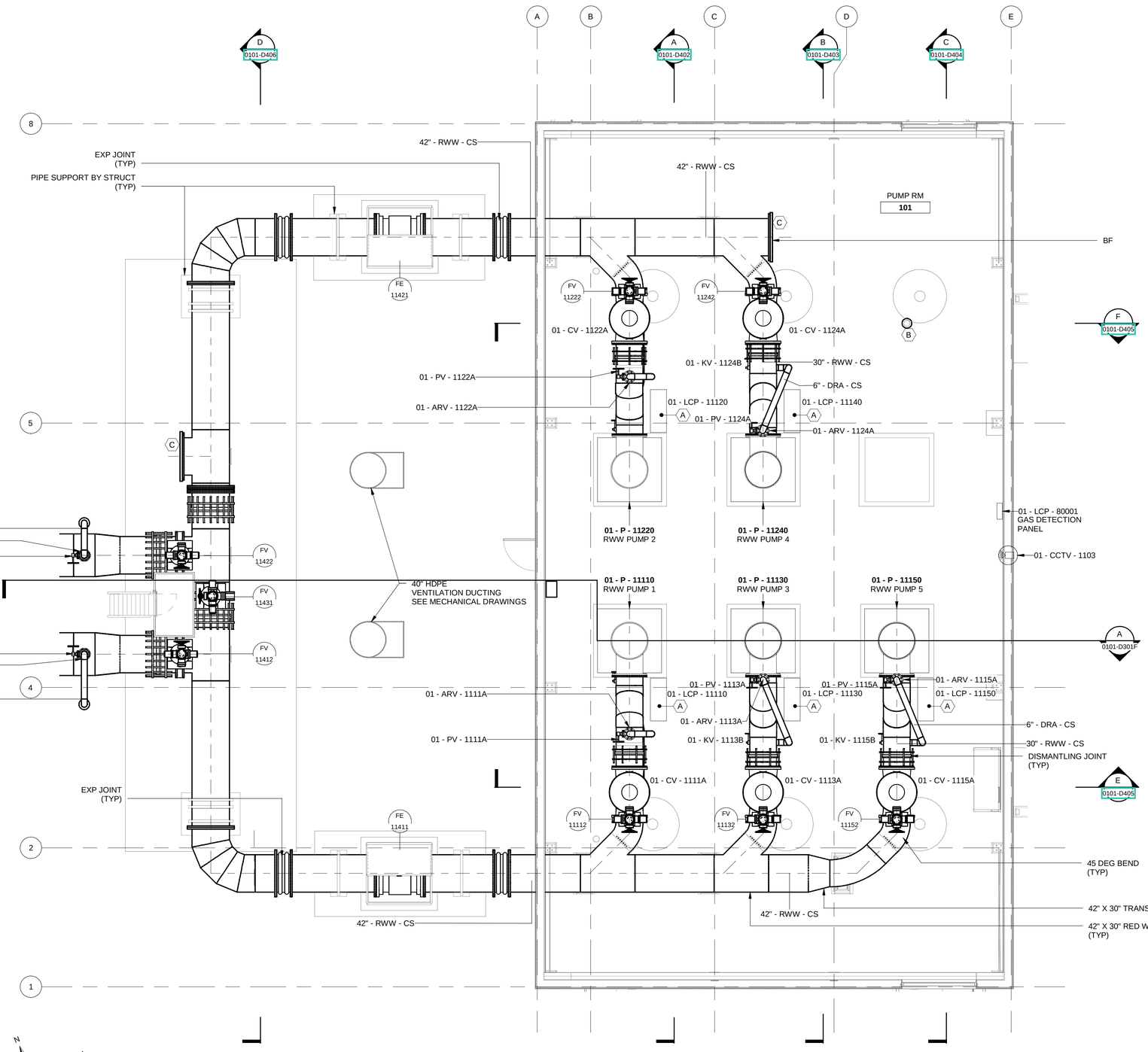
DRAWING No.
0101-D301S

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. INSTALL BLIND FLANGE FLUSH WITH MAIN LEVEL ON FUTURE PUMP DRAIN AND PAINT TOP OF FLANGE YELLOW.
C. BLIND FLANGES FOR FUTURE CONNECTONS.



1 | RWW PUMPS
0101-D102 | SCALE: 3/16" = 1'-0"

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	S.COLE
DRAWN BY:	H.LEVY
CHECKED BY:	R.SCHROEDEL
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	HL	SC

LAST CONFORMED SET: -

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

RWW PUMPS ENLARGED PLAN

SALT LAKE CITY

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

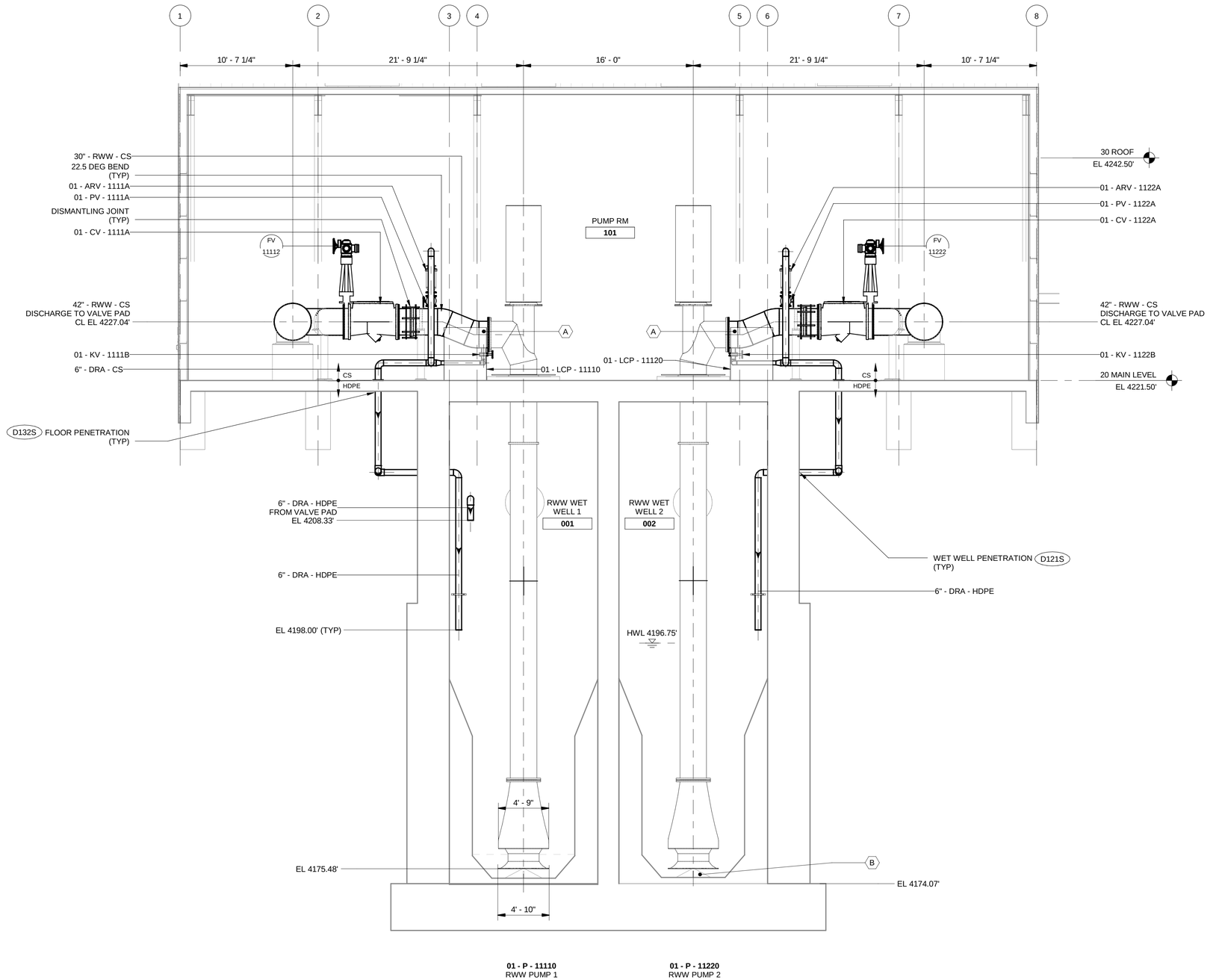
DRAWING No.
0101-D401

SHEET _____ OF _____

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DATE: 3/29/2023 2:06:10 PM

FILE: BIM 360://6057288-Salt Lake City 2019/5249/5360_0101-D001.rvt



KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. HYDROCONES AND VANES TO BE COORDINATED WITH PUMP SUPPLIER.

A | SECTION
0101-D401 | SCALE: 3/16" = 1'-0"

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

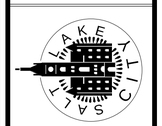
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	HL / SC

ISSUED FOR BID
LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

RWW PUMPS
ENLARGED SECTION



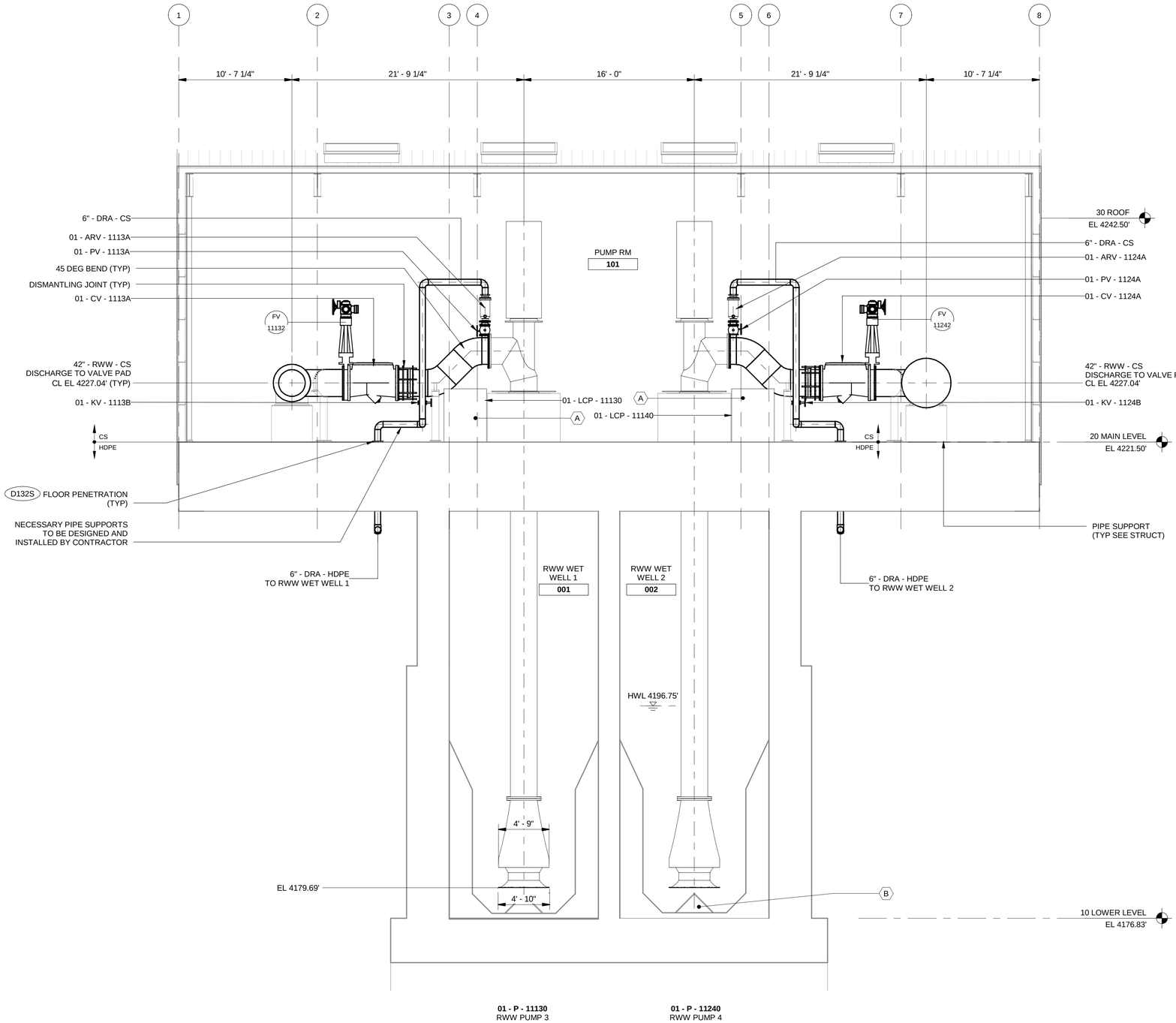


DRAWING No.
0101-D402

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 2:05:12 PM
FILE: BIM 360://6057288-Salt Lake City 2019/524905350_0101-D001.rvt



B SECTION
0101-D401 SCALE: 3/16" = 1'-0"

KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. HYDROCONES AND VANES TO BE COORDINATED WITH PUMP SUPPLIER.

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	HL	SC

ISSUED FOR BID
LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

RWW PUMPS
ENLARGED SECTION

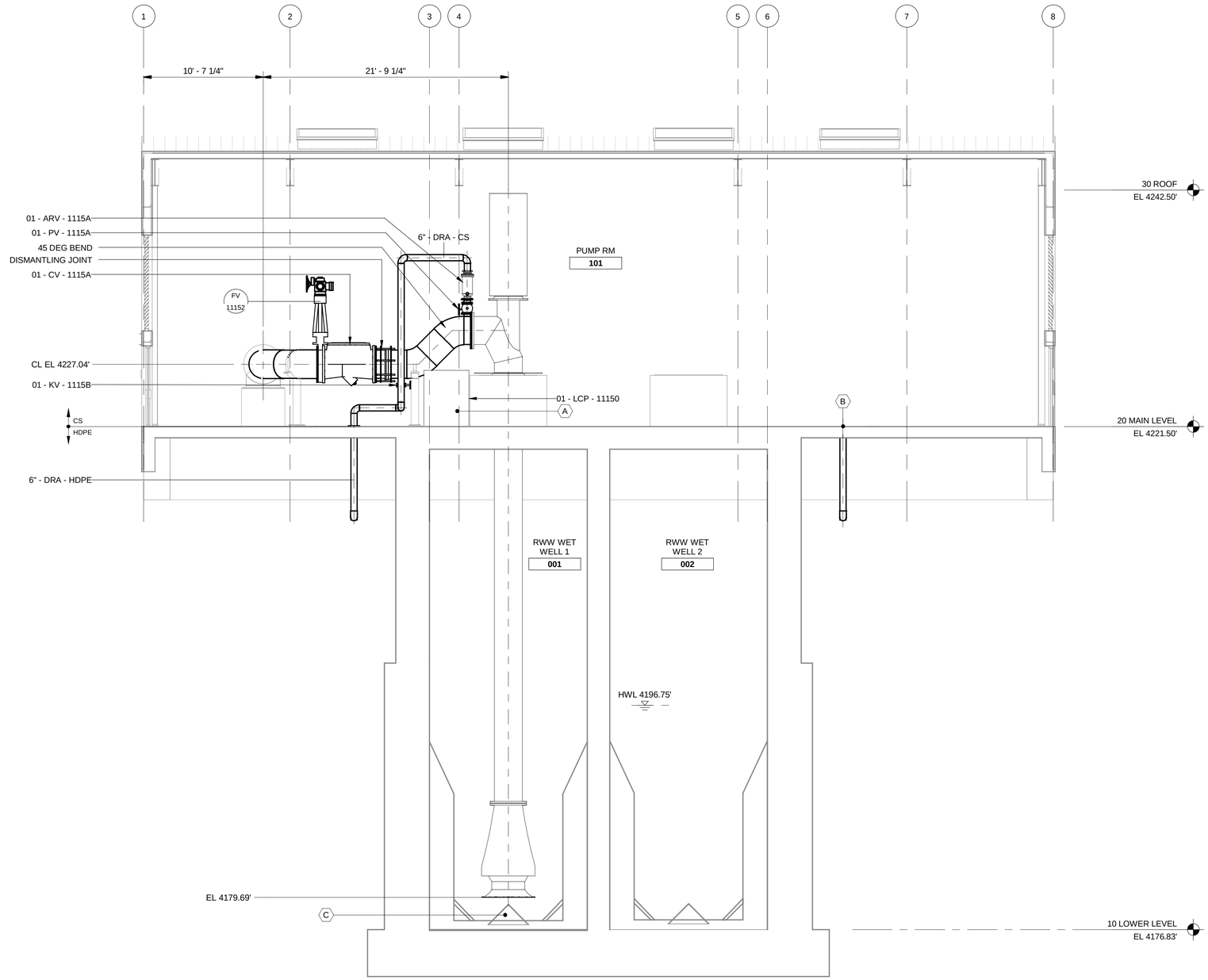
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
PROFESSIONAL ENGINEER
04-03-2023

DRAWING No.
0101-D403

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 2:05:14 PM
FILE: BIM 360://9057228l-Salt Lake City 2019/524905350_0101-D001.rvt



01 - P - 11150
RWW PUMP 5

C | SECTION
0101-D401 | SCALE: 3/16" = 1'-0"

KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. INSTALL BLIND FLANGE FLUSH WITH MAIN LEVEL ON FUTURE PUMP DRAIN AND PAINT TOP OF FLANGE YELLOW.
C. HYDROCONES AND VANES TO BE COORDINATED WITH PUMP SUPPLIER.

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	HL / SC

ISSUED FOR BID
LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

RWW PUMPS
ENLARGED SECTION

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

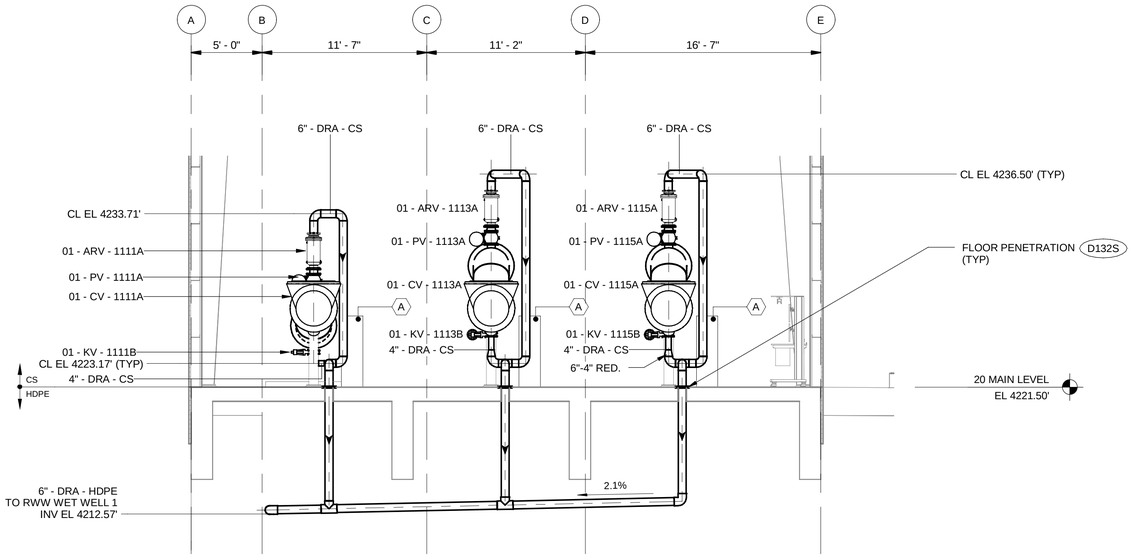
DRAWING No.
0101-D404

SHEET _____ OF _____

VERIFY SCALE | BAR IS ONE INCH ON ORIGINAL DRAWING

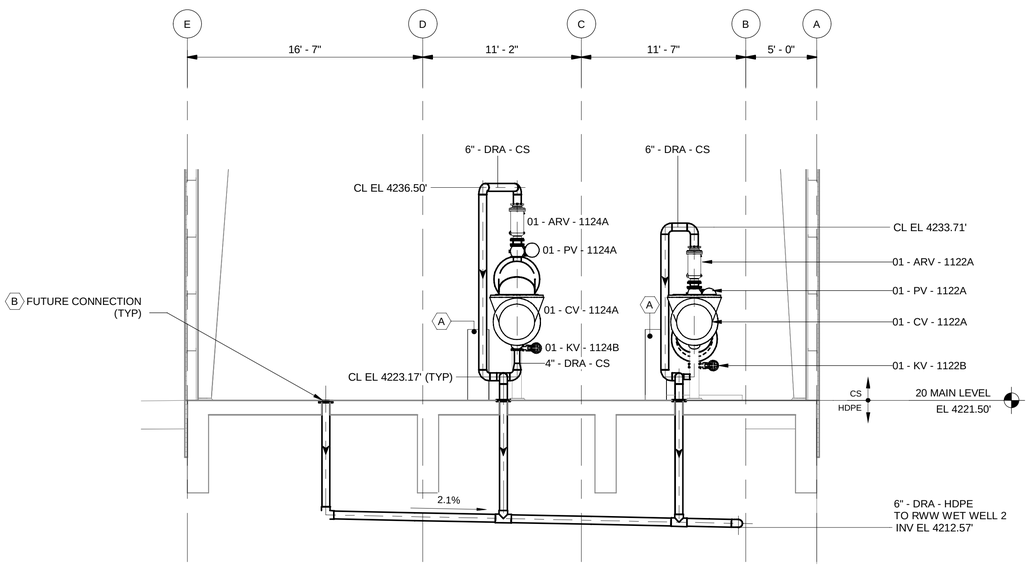
DATE: 3/29/2023 2:05:15 PM

FILE: BIM 360://9057/2288-Salt Lake City 2019/524905350_0101-D001.rvt



E | SECTION

0101-D401 | SCALE: 3/16" = 1'-0"



F | SECTION

0101-D401 | SCALE: 3/16" = 1'-0"

KEYNOTES

A. LOCAL CONTROL PANEL IS INCLUDED WITHIN THE SPACE PROVIDED FOR SEAL WATER PIPING.
B. INSTALL BLIND FLANGE FLUSH WITH MAIN LEVEL ON FUTURE PUMP DRAIN AND PAINT TOP OF FLANGE YELLOW.

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	HL	SC

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

RWW PUMPS
ENLARGED SECTIONS

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

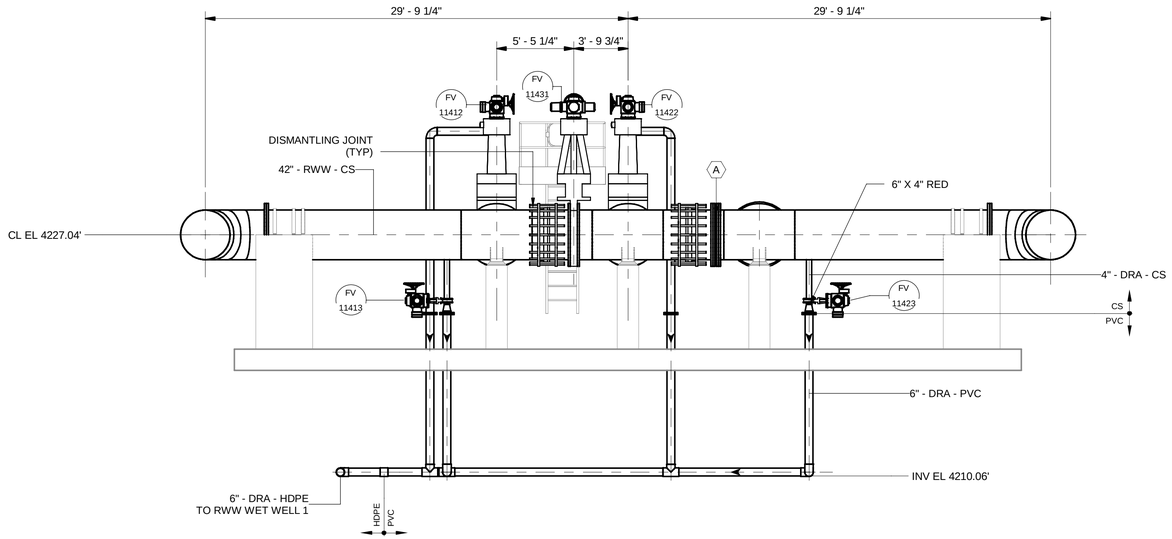
DRAWING No.
0101-D405

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 2:05:19 PM

FILE: BIM 360://6057228-Salt Lake City 2019/5249/5350_0101-D001.rvt



D | SECTION

0101-D401 | SCALE: 3/16" = 1'-0"

KEYNOTES

A. SPACER TO BE FABRICATED WITH SAME LAY LENGTH AS FV-11431.

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: S.COLE
DRAWN BY: H.LEVY
CHECKED BY: R.SCHROEDEL
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	HL / SC

ISSUED FOR BID
LAST CONFORMED SET: -

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

VALVE PAD PIPING ENLARGED SECTION

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

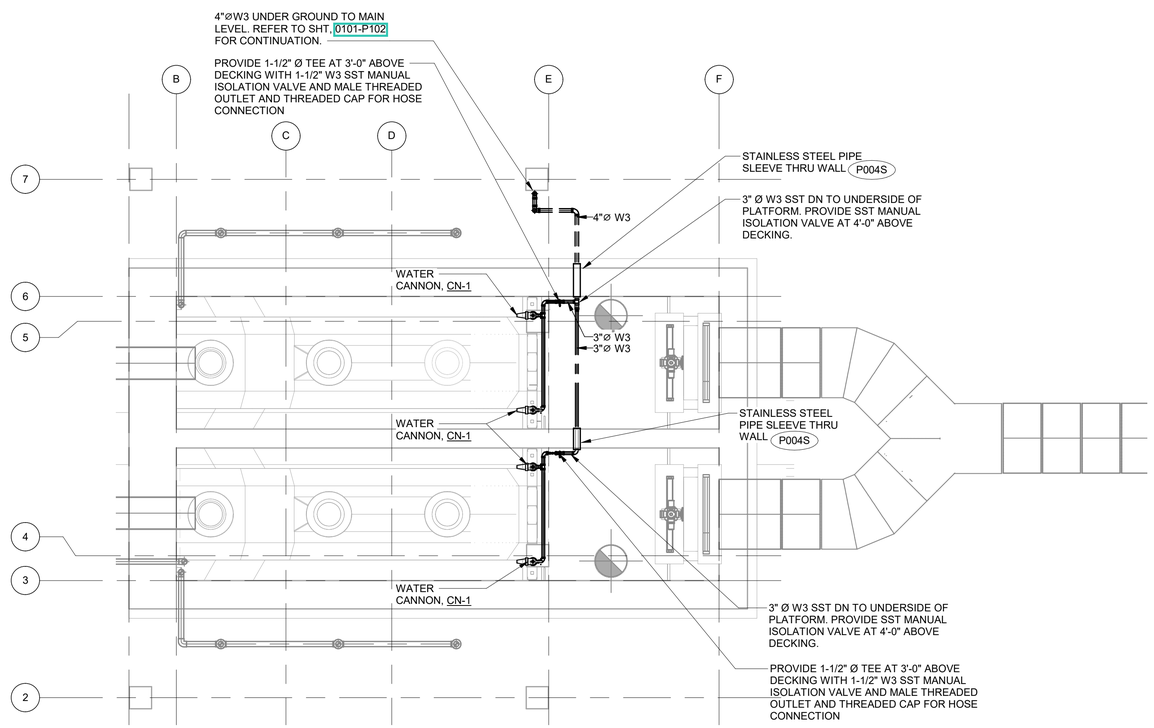
DRAWING No.
0101-D406

SHEET _____ OF _____

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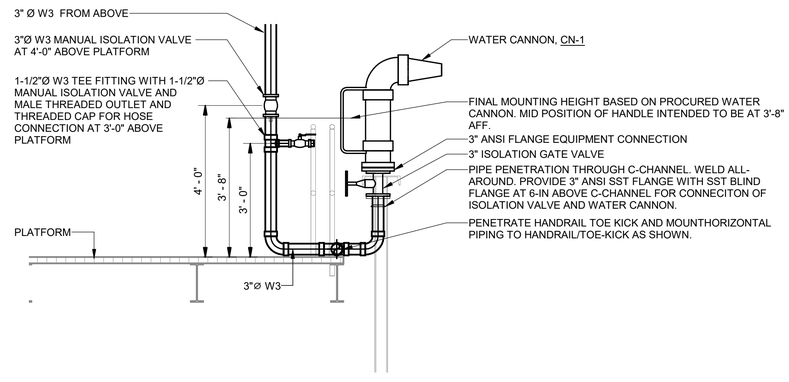
DATE: 3/29/2023 2:05:19 PM

FILE: BIM 360://9057228-Salt Lake City 2019\524905350_0101-D001.rvt



PLATFORM PLUMBING PLAN

SCALE: 1/8" = 1'-0"



A | WATER CANNON INSTALLATION DETAIL

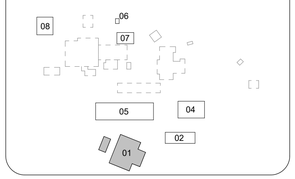
SCALE: 1/2" = 1'-0"

TIE-IN POINTS

1. REFER TO 0100-X600-SERIES DRAWING SHEETS FOR PLUMBING PROCESS FLOW DIAGRAMS AND P&IDs, WHICH INDICATE ADDITIONAL VALVES, PIPE SIZES, TIE-IN POINTS TO PROCESS PIPING, AND INFORMATION NOT SHOWN ON THESE PLANS.
2. PROVIDE ALL STAINLESS STEEL PIPING, FITTINGS AND COMPONENTS INSIDE OF WET WELL.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	R. MEADOR
DRAWN BY:	C. IMPARATO
CHECKED BY:	G. DAVIES
APPROVED BY:	G.DAVIES
DATE:	- - -
EWO NO.:	-
ACCOUNT NO.:	524905086

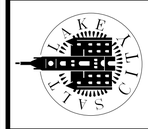
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	CI	RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PLATFORM PLUMBING PLAN





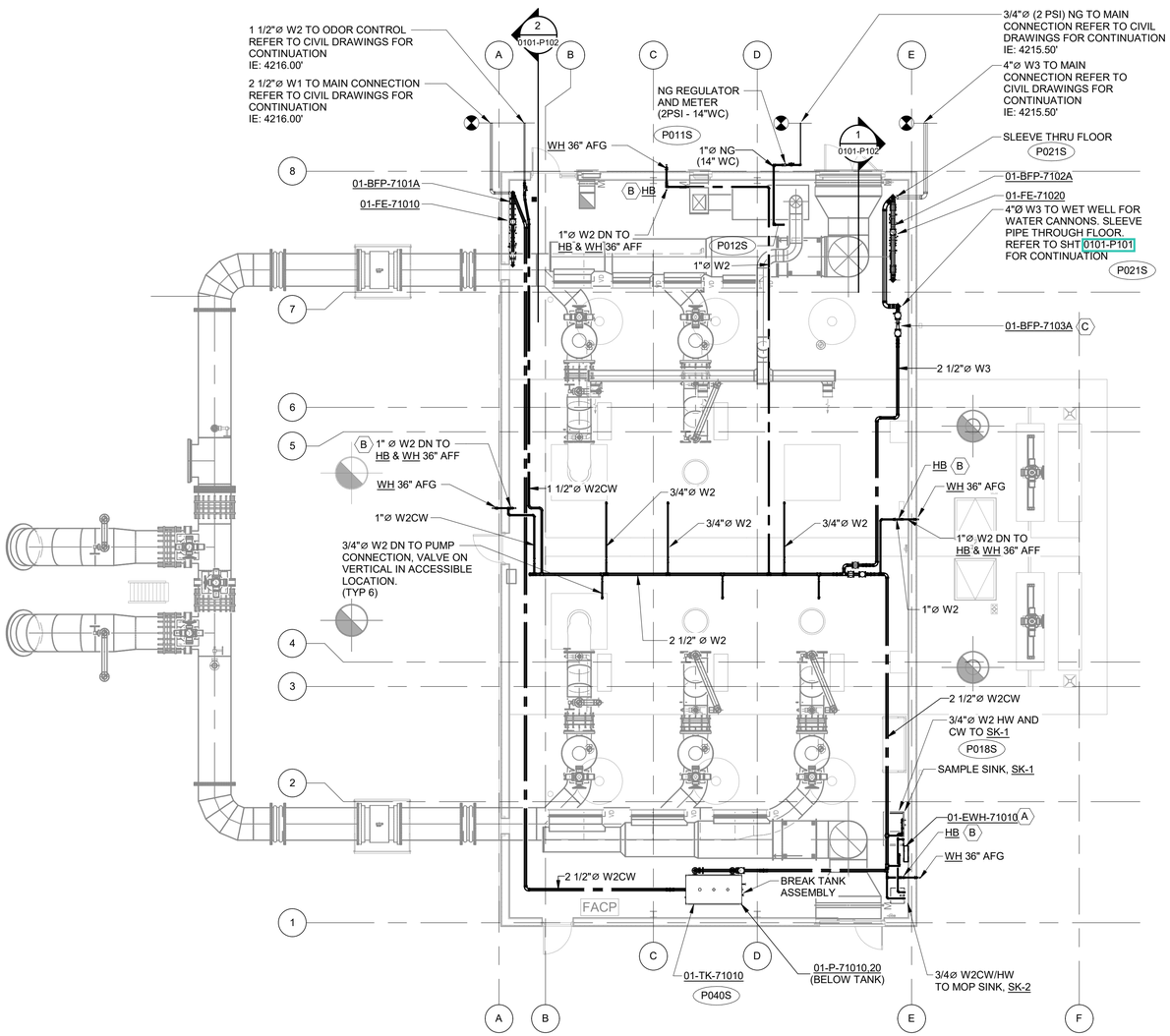
DRAWING No.
0101-P101

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:17:11 AM

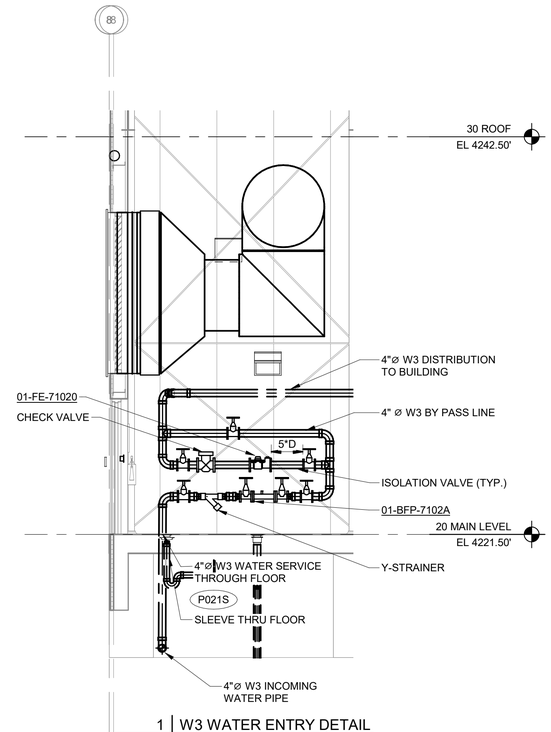
FILE: BIM 360://60572288-Salt Lake City 2019\524905350_0101-P001.rvt



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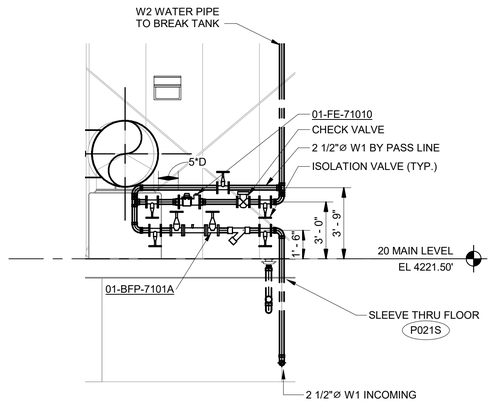
MAIN LEVEL PLUMBING PLAN

SCALE: 1/8" = 1'-0"



1 | W3 WATER ENTRY DETAIL

0101-P102 SCALE: 1/4" = 1'-0"



2 | W1/W2 WATER ENTRY DETAIL

0101-P102 SCALE: 1/4" = 1'-0"

1. REFER TO 0100-X600-SERIES DRAWING SHEETS FOR PLUMBING PROCESS FLOW DIAGRAMS AND P&IDs, WHICH INDICATE ADDITIONAL VALVES, PIPE SIZES, TIE-IN POINTS TO PROCESS PIPING, AND INFORMATION NOT SHOWN ON THESE PLANS.

KEYNOTES

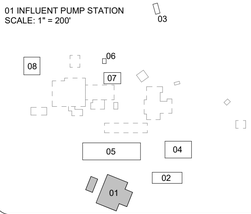
A. 3/4" ø W2 DN TO ELECTRIC WATER HEATER. MOUNT HEATER ON WALL AT ACCESSIBLE HEIGHT. (4'-0" PLUS/MINUS 6-INCHES TO CENTERLINE OF HEATER)

B. 3/4" ø W2 DN TO HB AT 36" AFF SEE TYP DETAIL P006S.

C. 2 1/2" ø W3 BACKFLOW PREVENTION ASSEMBLY AT 2'-6" AFF. W3 INTENDED TO BE USED AS EMERGENCY BACKUP TO LOSS OF W1/W2 PUMP SEAL WATER. MANUAL ISOLATION VALVES PROVIDE TRANSFER FROM W2 TO W3 SYSTEM.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: R. MEADOR
DRAWN BY: C. IMPARATO
CHECKED BY: G. DAVIES
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

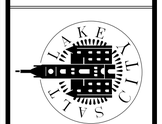
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	CI RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL PLUMBING PLAN





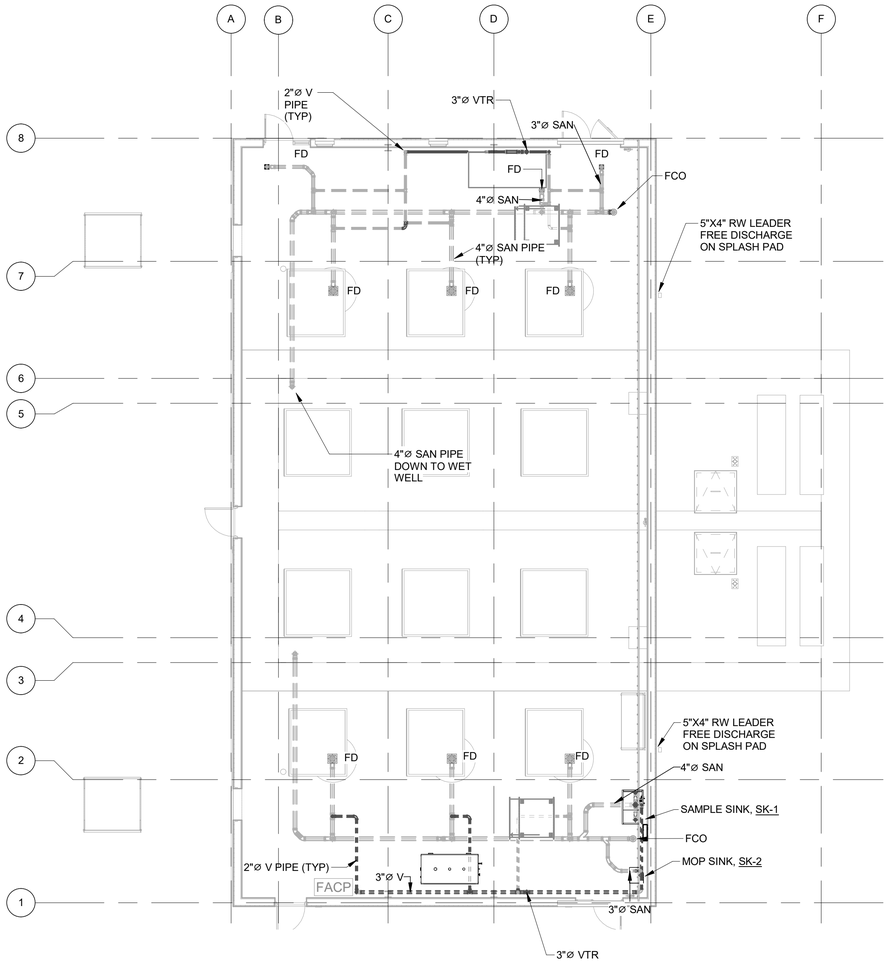
DRAWING No.
0101-P102

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:17:17 AM

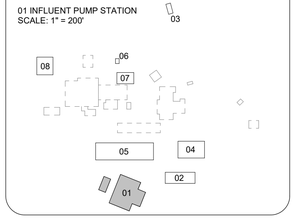
FILE: BIM 360://9057228-Salt Lake City 2019\524905350_0101-P001.rvt



MAIN LEVEL WASTE AND VENT PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: R. MEADOR
DRAWN BY: C. IMPARATO
CHECKED BY: G. DAVIES
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	CI	RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL WASTE AND VENT PLAN

PROFESSIONAL ENGINEER
No. 10848606
RYAN E. MEADOR
STATE OF UTAH
04-03-2023

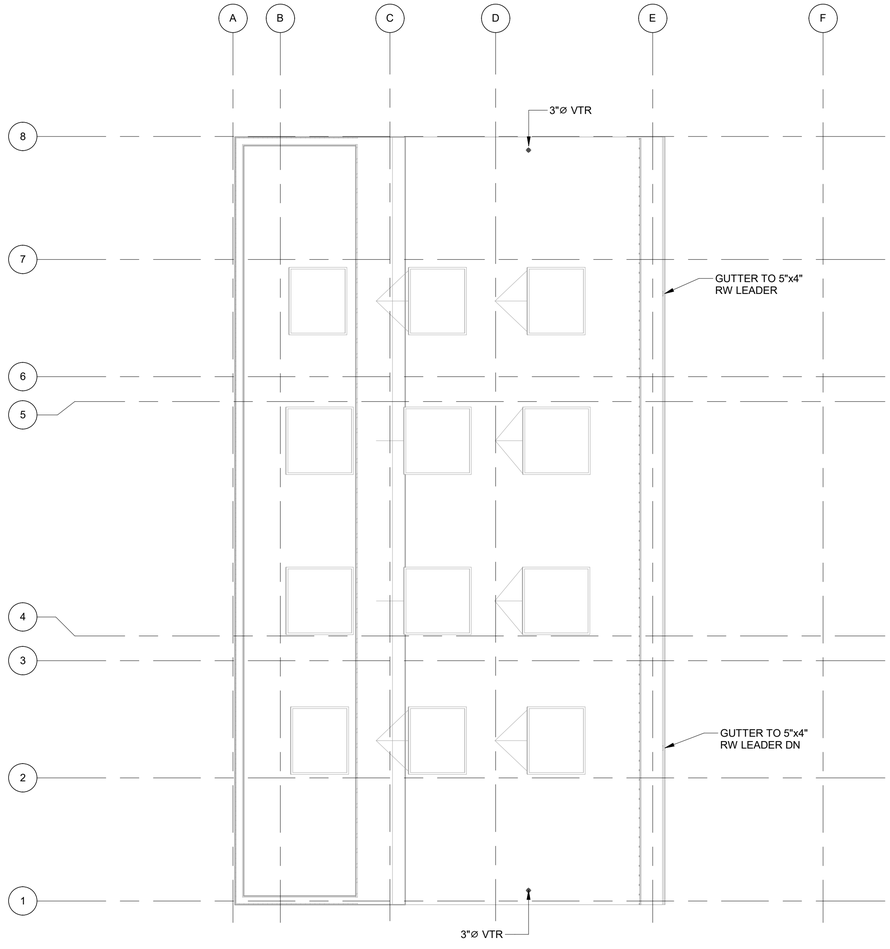
DRAWING No.
0101-P103

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:17:19 AM

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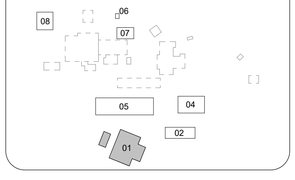
N

ROOF WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: R. MEADOR
DRAWN BY: C. IMPARATO
CHECKED BY: G. DAVIES
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	CI	RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

ROOF
WASTE AND VENT PLAN

PROFESSIONAL ENGINEER
No. 10849606
RYAN E. MEADOR
STATE OF UTAH
04-03-2023

DRAWING No.
0101-P104

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:17:19 AM

FILE: BIM 360://9057228-Salt Lake City 2019\524905350_0101-P001.rvt

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTION SIZES (IN) SAN	V	HW	CW
01-BFP-7101A	REDUCED PRESSURE BACKFLOW PREVENTER BASIS: ZURN MODEL 375AST. STAINLESS STEEL BODY, STAINLESS STEEL STRAINER, GATE VALVES WITH FLANGE CONNECTIONS. FURNISH WITH WILKINS AG-4 1" NPT AIR GAP FITTING.	-	-	-	2 1/2"
01-BFP-7102A	REDUCED PRESSURE BACKFLOW PREVENTER BASIS: ZURN MODEL 375AST. STAINLESS STEEL BODY, STAINLESS STEEL STRAINER, GATE VALVES WITH FLANGE CONNECTIONS. FURNISH WITH WILKINS AG-4 1" NPT AIR GAP FITTING.	-	-	-	4"
01-BFP-7103A	REDUCED PRESSURE BACKFLOW PREVENTER BASIS: ZURN MODEL 375AST. STAINLESS STEEL BODY, STAINLESS STEEL STRAINER, GATE VALVES WITH FLANGE CONNECTIONS. FURNISH WITH WILKINS AG-4 1" NPT AIR GAP FITTING.	-	-	-	2 1/2"
FCO	FLOOR CLEAN OUT BASIS: ZURN ZS-1400. DURA-COATED, CAST IRON BODY, ADJUSTABLE ROUND HEAVY DUTY TOP, GAS AND WATER TIGHT ABS TAPERED CLEANOUT PLUG.	4"	-	-	-
FD	FLOOR DRAIN BASIS: ASI COMPLIANT, DURA-COATED CAST IRON BODY AND TOP WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR EXTRA-HEAVY-DUTY CAST IRON DEEP FLANGE SLOTTED GRATE. SURESEAL INLINE FLOOR DRAIN TRAP SEALER.	4"	2"	-	-
GCO	GRADE CLEAN-OUT BASIS: AIS COMPLIANT, DURA-COATED CAST-IRON BODY, ADJUSTABLE WITH ROUND HEAVY DUTY TOP AND CLEAN-OUT PLUG.	4"	-	-	-
HB	HOSE BIB (INTERIOR) BASIS: WOODFORD MODEL 24P, ANTI-SIPHON. VACUUM BREAKER, MALE HOSE THREAD, WHEEL HANDLE.	-	-	-	3/4"
SK-1	SAMPLE SINK BASIS: ELKAY MODEL SS8124R2 STAINLESS STEEL 27-1/2" X 27-1/2" X 14" SINGLE COMPARTMENT SCULLERY SINK WITH 22" SIDE DRAINBOARD (49.5" TOTAL ASSEMBLY WIDTH). DRAINBOARD LOCATION AS SHOWN ON PLAN. , FLOOR MOUNT, 3.5" CENTER DRAIN LOCATION, 8" TALL BACKSPLASH WITH 8" CENTERSET PUNCH. FAUCET BASIS: FIAT 830AA, STRAIGHT SERVICE SINK FAUCET WITH LEVER HANDLE, CHROME PLATED WITH INTEGRAL VACUUM BREAKER, STRAIGHT SPOUT. REFER TO SAMPLE SINK DETAIL FOR ADDITIONAL INFO.	4"	2"	3/4"	3/4"
SK-2	MOP SINK BASIS: FIAT MODEL TSB100, 24"x24" ONE-PIECE, PRECAST TERRAZZO MOP SERVICE BASIN. 12" DEEP, STAINLESS STEEL CAPS ON ALL SIDES. 3-INCH DRAIN FAUCET BASIS: FIAT 830AA, STRAIGHT SERVICE SINK FAUCET WITH LEVER HANDLE, CHROME PLATED WITH INTEGRAL VACUUM BREAKER, STRAIGHT SPOUT.	4"	2"	3/4"	3/4"
CN-1	WATER CANNON BASIS: AKRON 3430, MANUAL MONITOR, FLANGE MOUNTED, 360 DEG ROTATION (HORIZONTAL), 135 DEG ROTATION (VERTICAL), T-HANDLE TILLER BAR, 1-1/2" SMOOTH BORE TIP OUTLET, ADJUSTABLE FLOW RATE, 3" ANSI FLANGED INLET.	-	-	-	3"
01-FE-71010	WATER METER/FLOW METER. SIEMENS MODEL SITRANS F M. MICROPROCESSOR BASED TRANSMITTER WITH BUILD-IN ALPHA NUMERIC DISPLAY.	-	-	-	LINE SIZE
01-FE-71020	WATER METER/FLOW METER. SIEMENS MODEL SITRANS F M. MICROPROCESSOR BASED TRANSMITTER WITH BUILD-IN ALPHA NUMERIC DISPLAY.	-	-	-	LINE SIZE
WH	FREEZE PROOF WALL HYDRANT. WATTS MODEL HY-725, CONCEALED NON-FREEZE KEY OPERATED WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION.	-	-	-	3/4"

SCALE:

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: R. MEADOR
DRAWN BY: C. IMPARATO
CHECKED BY: R. MEADOR
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

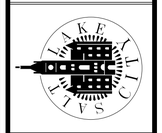
REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	CI	RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PLUMBING FIXTURE SCHEDULE





DRAWING No.
0101-P601

SHEET _____ OF _____

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FILE: BIM 360://6057228-Salt Lake City 2019/524905350_0101-P001.rvt

WATER BOOSTER PUMP SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	MAX. FLOW (GPM)	MAX. HEAD (PSI)	MOTOR POWER (HP)	V/PH/HZ	MOTOR RPM	NOTES
01-P-71010	PACKAGE BOOSTER SYSTEM	ARMSTRONG	N130502S	75	90	5.0	460/3/60	3600	1
01-P-71020	PACKAGE BOOSTER SYSTEM	ARMSTRONG	N130502S	75	90	5.0	460/3/60	3600	1

NOTES:
1. PROVIDE WITH 350 GALLON HORIZONTAL STORAGE TANK ABOVE PUMPS.

PLUMBING-ELECTRIC WATER HEATER SCHEDULE (TANKLESS)

MARK	DESCRIPTION	MANUFACTURER	MODEL	COLD WATER INLET (INCH)	TEPID WATER OUTLET (INCH)	FLOW (GPM)	TEMP. RISE (DEG F)	ELECTRICAL		NOTES
								VOLTS/PH	kW	
01-EWH-71010	ELECTRIC TANKLESS WATER HEATER	CHRONOMITE	ER-42L	3/4"	3/4"	2.0	65	460/3/60	20.0	1, 2, 3

NOTES:
1. STEEL HOUSING.
2. ACTIVATION AT LOW FLOW, 0.35 GPM.
3. USER ADJUSTABLE TEMPERATURE BETWEEN 70-125 DEG F.

SCALE:

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: R. MEADOR
DRAWN BY: C. IMPARATO
CHECKED BY: G. DAVIES
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

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A	23-04-03	CI	RM

SW-1A: ISSUED FOR BID

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PLUMBING EQUIPMENT SCHEDULES

PROFESSIONAL ENGINEER
No. 10849604
RYAN E. MEADOR
STATE OF UTAH
04-03-2023

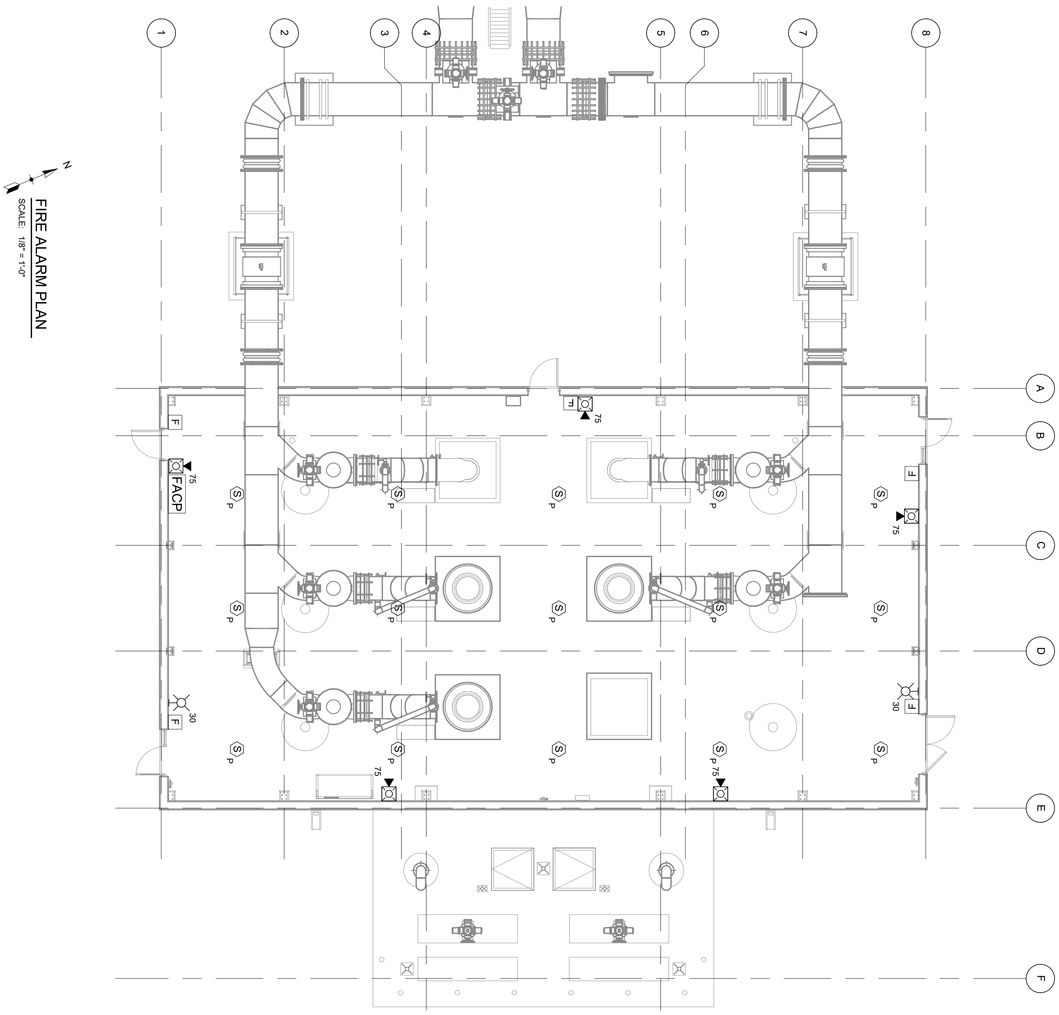
DRAWING No.
0101-P602

SHEET _____ OF _____

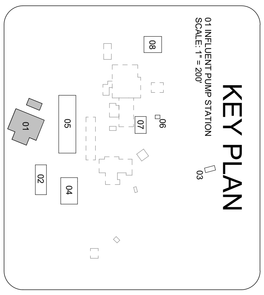
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FILE: BIM 360://9057228-Salt Lake City 2019\524905350_0101-P001.rvt
DATE: 3/29/2023 11:17:20 AM

FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

FIRE ALARM PLAN

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	DR	ML

LAST CONFORMED SET:

DESIGNED BY: M. LANE
DRAWN BY: D. RUTHERFORD
CHECKED BY: J. HEIM
APPROVED BY: G.DAVIES
DATE: - -
EWO NO.: -
ACCOUNT NO.: 524905396

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DRAWING No. 0101-F102
SHEET ____ OF ____

PROFESSIONAL ENGINEER
No. 11489201
JONATHAN CARTER REID
STATE OF UTAH
4/3/23

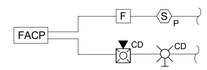
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FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

	ALARM SIGNAL TO FACP	SUPERVISORY SIGNAL TO FACP	TROUBLE SIGNAL TO FACP	AUDIBLE AND VISUAL SIGNAL ACTIVATION	TRANSMIT ALARM SIGNAL TO O&M BUILDING CONTROL ROOM	TRANSMIT SUPERVISORY SIGNAL TO O&M BUILDING CONTROL ROOM	TRANSMIT TROUBLE SIGNAL TO O&M BUILDING CONTROL ROOM
MANUAL FIRE ALARM PULL STATION	X			X	X		
AREA SMOKE DETECTOR	X			X	X		
FIRE ALARM CONTROL PANEL LOW BATTERY			X				X
GROUND FAULT			X				X
OPEN CIRCUIT			X				X
NOTIFICATION APPLIANCE SHORT CIRCUIT			X				X
BREAK IN STANDBY BATTERY CIRCUITRY			X				X
FAILURE OF BATTERY CHARGING			X				X
LOSS OF PRIMARY POWER AT FACP			X				X

FIRE ALARM MATRIX

NOT TO SCALE



MAIN LEVEL

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

DATE: 3/29/2023 2:57:11 PM

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LAST CONFORMED SET:

DESIGNED BY: M. LANE
DRAWN BY: D. RUTHERFORD
CHECKED BY: J. HEIM
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905350

SCALE: 12" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

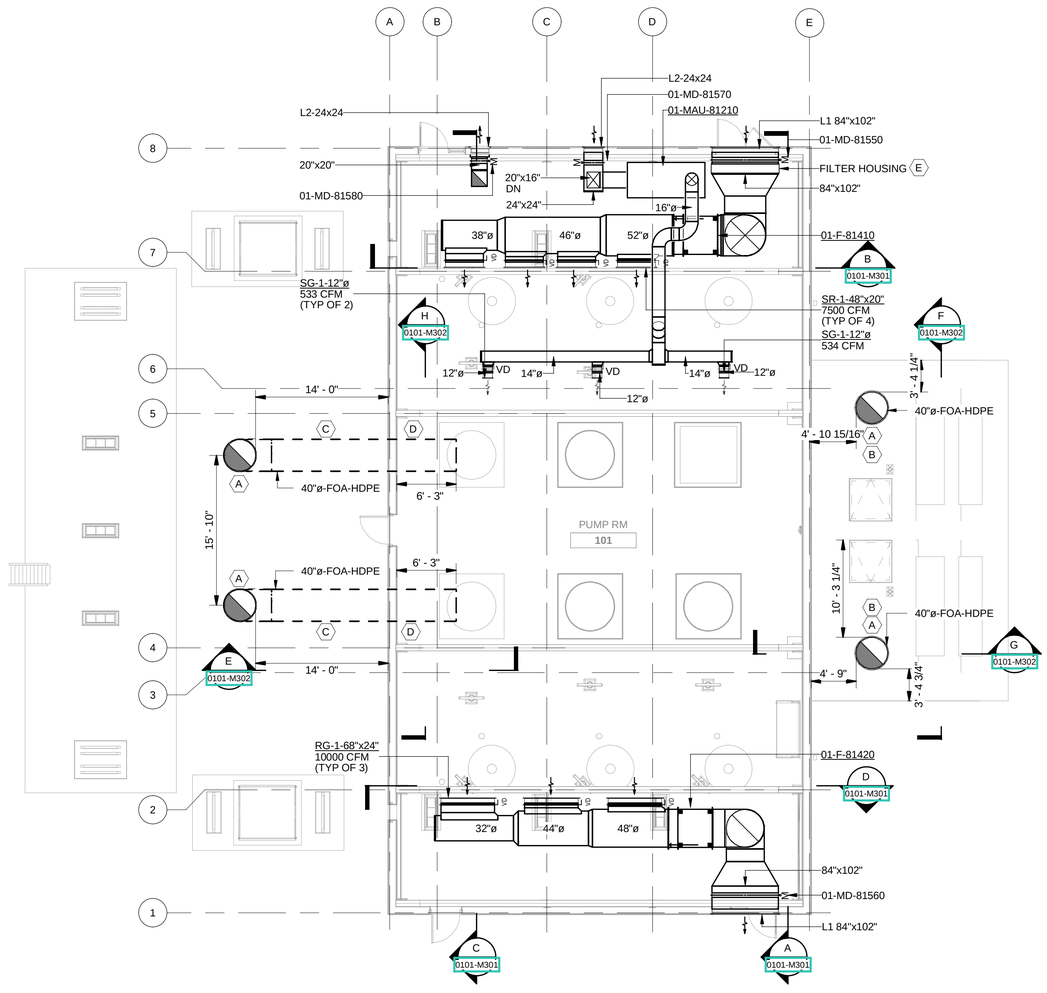
FIRE ALARM DETAILS

PROFESSIONAL ENGINEER
No. 11499201
JONATHAN CARTER HEIM
STATE OF UTAH
4/3/23

DRAWING No.
0101-F611

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



MAIN LEVEL VENTILATION PLAN

SCALE: 1/8" = 1'-0"

KEY NOTES

A 40" RD HDPE AIR SUPPLY PIPE UP TO 1' ABOVE GRADE C/W FLANGE AND BOLT-DOWN BLANK-OFF. REFERENCE SPECIFICATION SECTION 44 60 14 FOR PIPE.

B 40" RD HDPE DOWN TO WET WELL TERMINATE AT 4210' ELEVATION.
REFERENCE SPECIFICATION SECTION 44 60 14 FOR PIPE. SEAL PENETRATION PER DETAIL D370S.

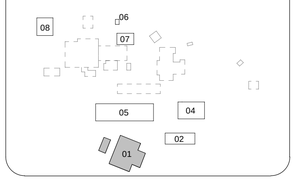
C 40" RD HDPE DOWN WITH 90 DEGREE ELBOW AT 4210' CENTERLINE ELEVATION.
REFERENCE SPECIFICATION SECTION 44 60 14 FOR PIPE.
REFERENCE DETAIL C700S FOR TRENCHING AND BEDDING OF DIRECT BURY PIPE.

D 40" RD HDPE TO TERMINATE 2' INTO WET WELL AT 4210' CENTERLINE ELEVATION.
REFERENCE SPECIFICATION SECTION 44 60 14 FOR PIPE.
APPLY DETAIL D121S TYPE A PIPE PENETRATION WITH DOUBLE LINK SEAL.

E 84" x 102" FILTER AND FILTER HOUSING WITH MERV8 FILTER. REFERENCE SPECIFICATION SECTION 23 41 00.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.WATSON
DRAWN BY: N.AHMED
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL
VENTILATION PLAN

SALT LAKE CITY

PROFESSIONAL ENGINEER
No. 10848606
RYAN E. MEAD
STATE OF UTAH
04-03-2023

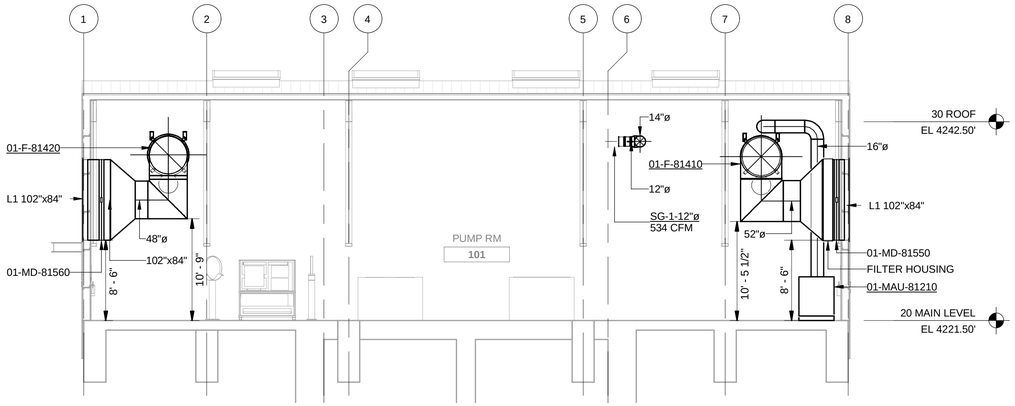
DRAWING No.
0101-M101

SHEET _____ OF _____

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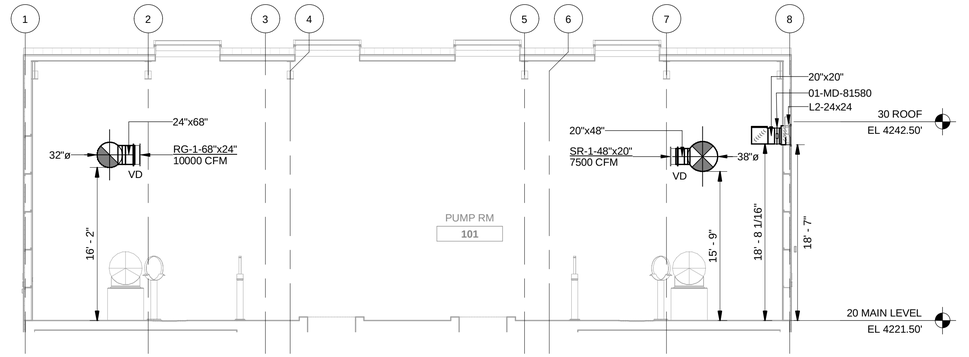
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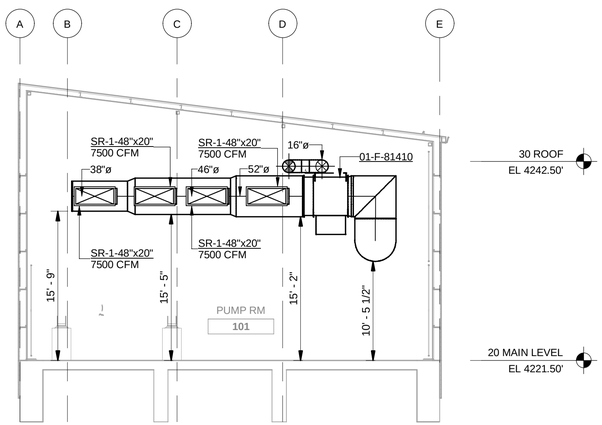
A | SECTION

0101-M101 | SCALE: 1/8" = 1'-0"



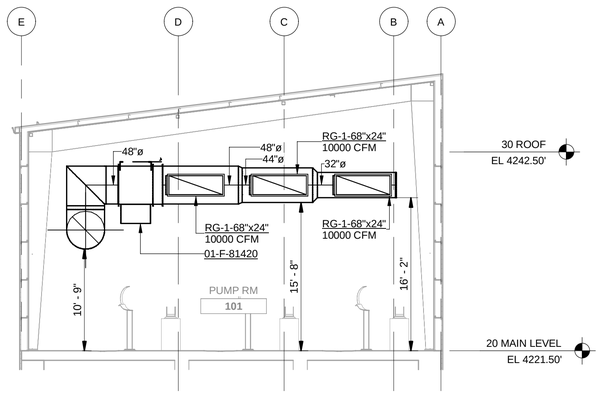
C | SECTION

0101-M101 | SCALE: 1/8" = 1'-0"



B | SECTION

0101-M101 | SCALE: 1/8" = 1'-0"



D | SECTION

0101-M101 | SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.WATSON
DRAWN BY: N.AHMED
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - -
EWO NO.: -
ACCOUNT NO.: 524905386

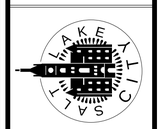
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	NA	BW

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

HVAC SECTIONS





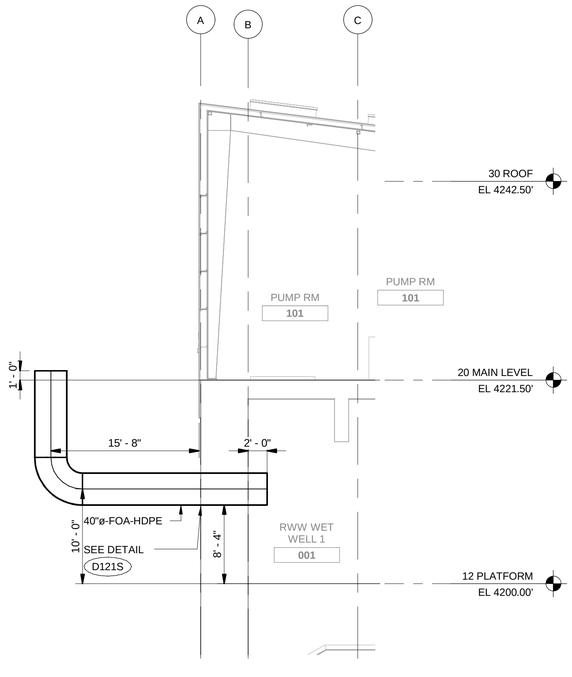
DRAWING No.
0101-M301

SHEET _____ OF _____

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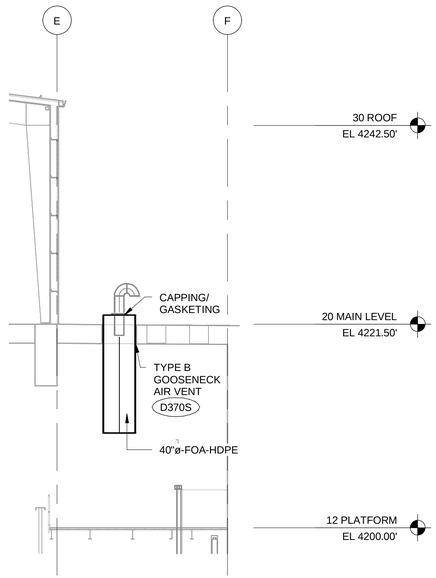
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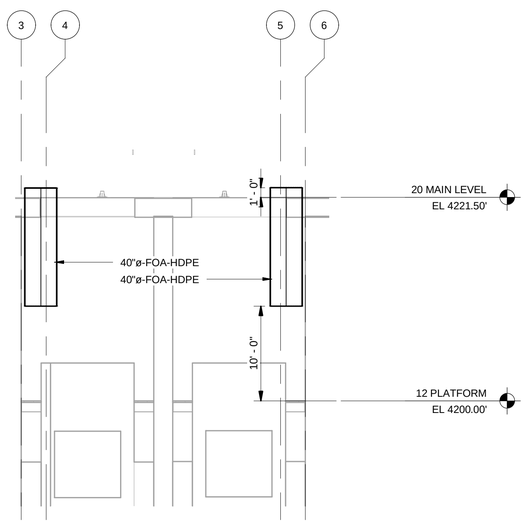
E | SECTION

0101-M101 SCALE: 1/8" = 1'-0"



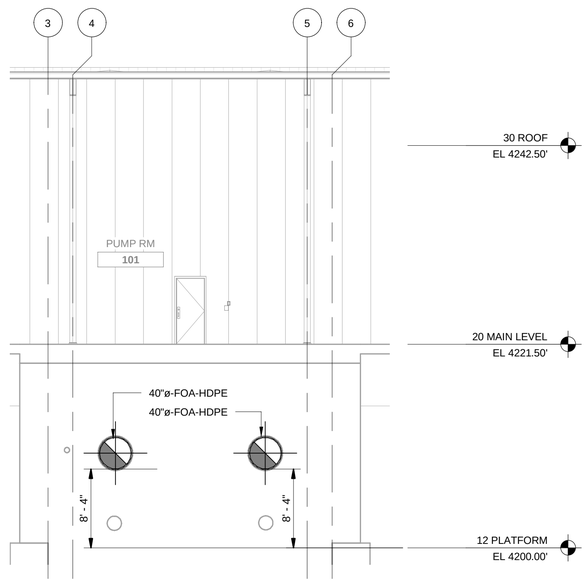
G | SECTION

0101-M101 SCALE: 1/8" = 1'-0"



F | SECTION

0101-M101 SCALE: 1/8" = 1'-0"



H | SECTION

0101-M101 SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.WATSON
DRAWN BY: N.AHMED
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	BW

ISSUED FOR BID

LAST CONFORMED SET: NA

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

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SECTIONS





DRAWING No.
0101-M302

SHEET _____ OF _____

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DATE: 30/03/2023 13:32:50

FILE: BIM 360://0572288-Salt Lake City 2019/524905350_0101-M001.rvt

INDIRECT GAS-FIRED MAKE-UP AIR UNIT HEATER SCHEDULE

TAG NO	MANUFACTURER MODEL NO OR EQUAL	AREA SERVED	SUPPLY FAN				FILTER DATA			HEATING DATA					ELECTRICAL DATA						NOTES
			CFM	% OA	ESP (IN)	HP	TYPE	SIZE (IN)	MERV	TYPE	MBH INPUT	MBH OUTPUT	EAT (°F)	LAT (°F)	VOLTS	PH	Hz	BHP	MCA	MOCP	
01-MAU-81210	MODINE DBP200TMRNN93F3CQ6JDA00	PUMP ROOM 101	1600	100	1.5	1.5	PLEATED	2	8	NG	163	132	6	86.4	460	3	60	1.07	4.41	15	DS, DD, EGL, HEM, HE, HPR, IC, PC, RCP, S, VI

DS = DISCONNECT SWITCH
DD = DISCHARGE DAMPER (MOTORIZED)
EGL = EXTENDED GREASE LINES
HEM = HIGH EFFICIENCY MOTOR
HE =HEAT EXCHANGERS (400 SERIES STAINLESS STEEL)
HPR = HIGH PRESSURE REGULATOR (10 PSI INLET)
IC = INSULATED CABINET
PC = PACKAGED CONTROLS
RCP = REMOTE CONTROL PANEL (NEMA-12)
S = MOTOR STARTER
VI = VIBRATION ISOLATION (INTERNAL)

FAN SCHEDULE

UNIT DATA			BASIS OF DESIGN		PERFORMANCE DATA					MOTOR DATA						GENERAL DATA		
TAG	LOCATION	FUNCTION	MANUFACTURER	MODEL	FAN TYPE	FLOW (CFM)	ESP (IN WG)	DRIVE TYPE	SOUND RATING (dBA)	HP	BHP	VOLTS	PHASE	VFD	EMERGENCY POWER	DAMPER TYPE	WEIGHT (LBS)	SCHEDULE NOTES
01-F-81410	PUMP ROOM 101	SUPPLY	GREENHECK	TBI-FS-5H48-200	TUBE AXIAL	30000	1.50	BELT	95	20.00	16	460	3	Yes	Yes	MOTORIZED	1,350	
01-F-81420	PUMP ROOM 101	EXHAUST	GREENHECK	TBI-FS-5H48-200	TUBE AXIAL	30000	1.50	BELT	95	20.00	16	460	3	Yes	Yes	MOTORIZED	1,350	

AIR DEVICE SCHEDULE

UNIT DATA		BASIS OF DESIGN		MOUNTING	NECK SIZE (INCHES)	FRAME SIZE (INCHES)	FINISH	COMMENTS/ ACCESSORIES
TAG	FUNCTION	MANUFACTURER	MODEL					
SR-1	SUPPLY REGISTER	PRICE	152/FAB15	TYPE A	48"x20"	50"x22"	ALUMINUM	
SG-1	SUPPLY GRILLE	PRICE	RSG	RSG	12"ø	14"ø	ALUMINUM	DOUBLE DEFLECTION 1" BLADE SPACING
RG-1	RETURN GRILLE	PRICE	SCREEN	SURFACE	68"x24"	70"x26"	ALUMINUM	ALUMINUM WOVEN 3/4"X3/4" FOLDED FRAME

DAMPER SCHEDULE

TAG	DESCRIPTION OR LOCATION	MANUFACTURER	MODEL	SIZE (INCHES)	BLADE ACTION	ACTION	FAIL POSITION	ACTUATOR	VOLT	COMMENTS/ACCESSORIES
01-MD-81550	PUMP ROOM	TAMCO	9000 BF	84"x102"	PARALLEL	2 POSITION	CLOSED	BELIMO	24	
01-MD-81560	PUMP ROOM	TAMCO	9000 BF	84"x102"	PARALLEL	2 POSITION	CLOSED	BELIMO	24	
01-MD-81570	PUMP ROOM	TAMCO	9000 BF	24"x24"	PARALLEL	2 POSITION	CLOSED	BELIMO	24	
01-MD-81580	PUMP ROOM	TAMCO	9000 BF	20"x20"	PARALLEL	2 POSITION	CLOSED	BELIMO	24	

SCALE:

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.WATSON
DRAWN BY: N.AHMED
CHECKED BY: C.COURCHAINE
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

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A	23-04-03	SW-1A: ISSUED FOR BID	NA	BW

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

HVAC EQUIPMENT SCHEDULES

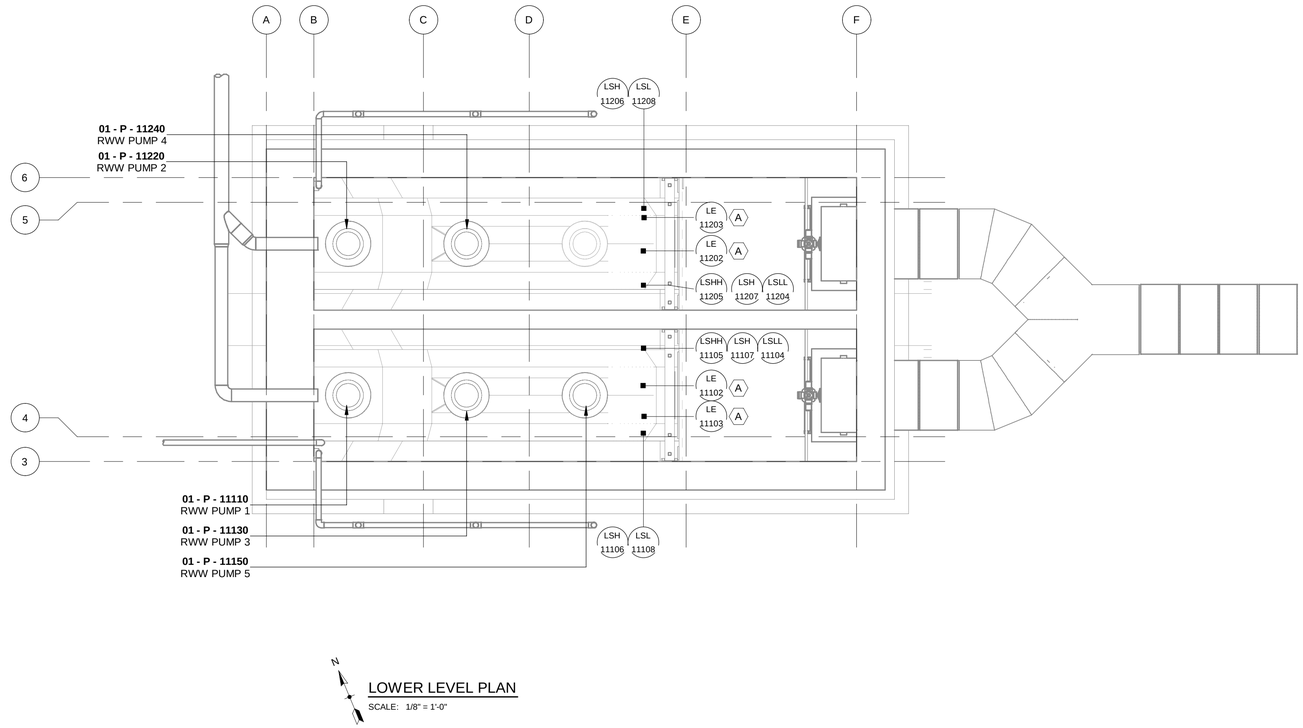
PROFESSIONAL ENGINEER
No. 10848604
RYAN E. MEAD
STATE OF UTAH
04-03-2023

DRAWING No.
0101-M601

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 30/03/2023 13:32:50
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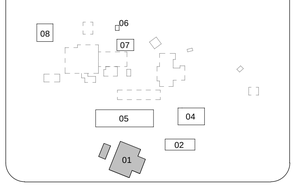
LOWER LEVEL PLAN

SCALE: 1/8" = 1'-0"

A. ASSOCIATED LEVEL TRANSMITTER IS LOCATED ON DRAWING 0101-I102.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	C.ROBINSON
DRAWN BY:	P.ALCOS
CHECKED BY:	S.SYMONS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JEP	CR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

LOWER LEVEL INSTRUMENT LOCATION PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

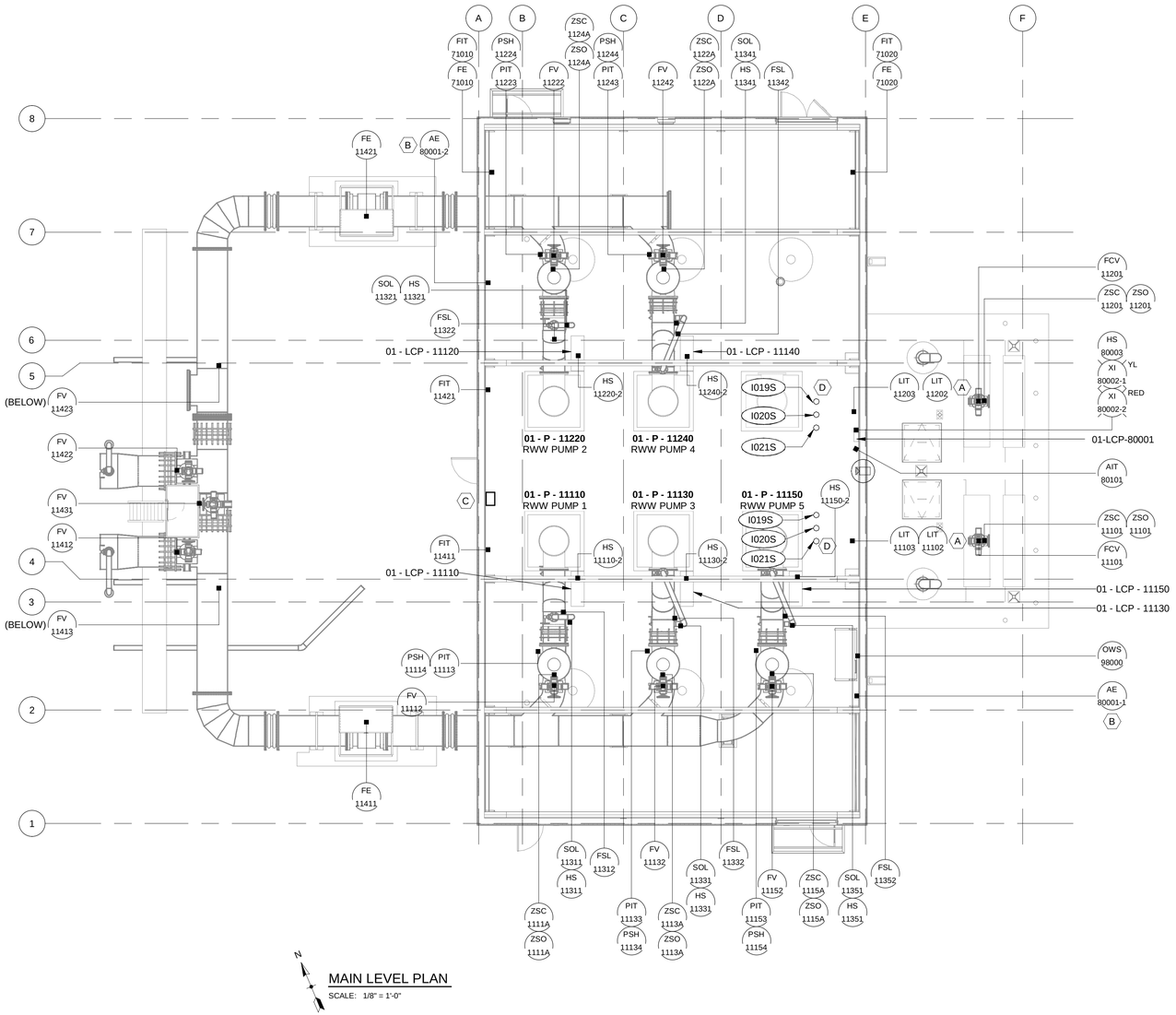
DRAWING No.
0101-I101

SHEET _____ OF _____

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DATE: 2023-03-29 10:47:26 AM

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MAIN LEVEL PLAN
SCALE: 1/8" = 1'-0"

A. ASSOCIATED LEVEL ELEMENTS ARE LOCATED ON DRAWING 0101-I101.

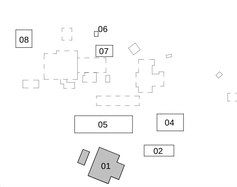
B. H2S GAS DETECTORS TO BE MOUNTED 18" AFF.

C. RELAY JUNCTION BOX FOR VALVE POSITION INTERLOCK TO PUMPS.

D. INSTALL RADAR AND ULTRASONIC LEVEL TRANSMITTERS A MINIMUM OF 2FT APART,

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	C.ROBINSON
DRAWN BY:	P.ALCOS
CHECKED BY:	S.SYMONS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JEP	CR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL INSTRUMENT LOCATION PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

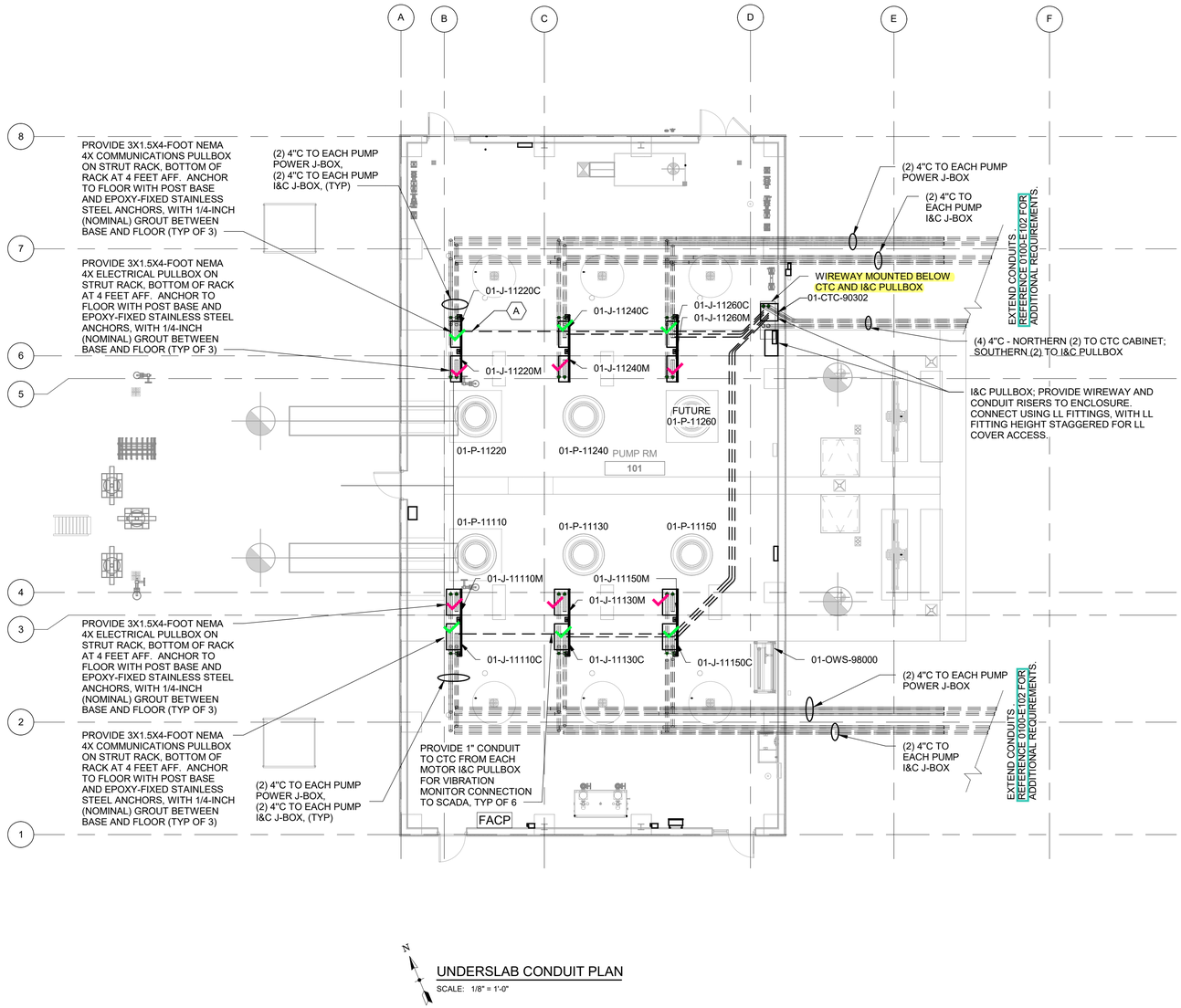
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FILE: BIM 360://9057Z288-Salt Lake City 2019/524905350_0101-D001.rvt



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UNDERSLAB CONDUIT PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

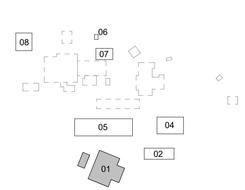
1. CONCEAL CONDUITS IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE.
2. REFER TO SINGLE LINE DIAGRAM, PANEL SCHEDULES AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
3. DRAWING SHOWS DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, HARD WIRED JUNCTION BOXES, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES WITH OTHER SUBCONTRACTORS TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
4. SIZE JUNCTION BOXES PER NEC, OR AS SHOWN, WHICHEVER IS LARGER.
5. POWER CONDUITS THAT ARE RUN PARALLEL TO SIGNAL CONDUITS, SHALL HAVE NO LESS THAN 12" SEPARATION. PROVIDE SIMILAR SEPARATION BETWEEN MEDIUM VOLTAGE AND LOW VOLTAGE POWER.
6. REFER TO SHEET 0101-E602 FOR FEEDER SIZES ON ALL MECHANICAL EQUIPMENT.
7. ALL EQUIPMENT AND APPURTENANCES USED IN THIS PROJECT SHALL BE UL (NATIONALLY RECOGNIZED TESTING LABORATORY) LISTED OR LABELED FOR THE PURPOSE AS PER CEC-2016 ART.110.3.
8. REFER TO 0101-I101 FOR PROCESS AND INSTRUMENTATION CABLE AND CONDUIT REQUIREMENTS.
9. EQUIPMENT SHOWN ABOVE GRADE IS SHOWN FOR REFERENCE IN THIS PLAN.

KEYNOTES

A. ROUTE CONDUITS WITHIN MIDDLE 1/3 OF SLAB WHERE ABOVE WETWELL. DO NOT ROUTE CONDUITS WITHIN WETWELL EXCEPT FOR INSTRUMENT CONDUITS, SEALED AND CONFIGURED FOR CLASS I, DIVISION 1 CORROSIVE ATMOSPHERE.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	D.BROERMAN
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

UNDERSLAB CONDUIT PLAN

PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

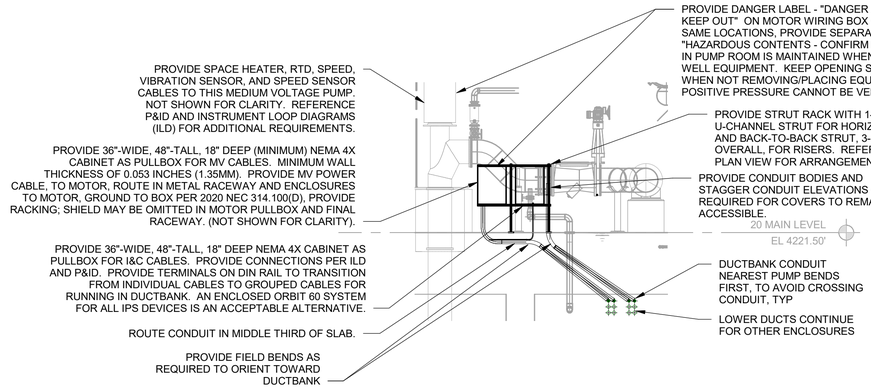
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

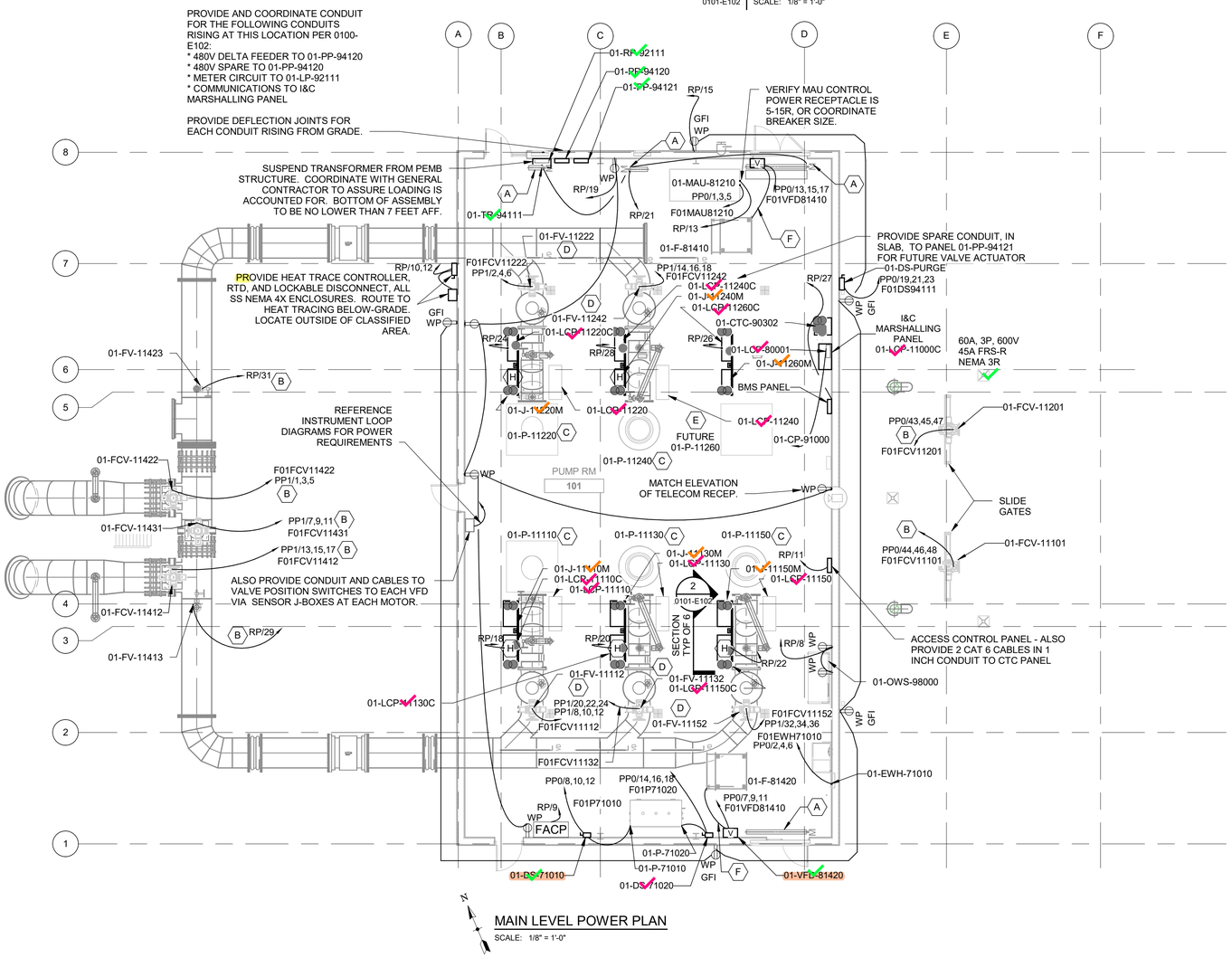
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FILE: BIM 360://6057288-Salt Lake City 2019\52490350_0101-E001.rvt



TYPICAL ELECTRICAL AND I&C MARSHALLING CABINET RACK

2 | 0101-E102 | SCALE: 1/8" = 1'-0"



MAIN LEVEL POWER PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

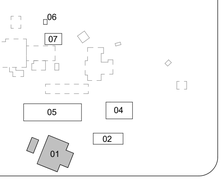
1. CIRCUIT ABBREVIATIONS ARE AS FOLLOWS:
   - RP = 10-RP-92111
   - PP0 = 10-PP-94120
   - PP1 = 10-PP-94121
2. COORDINATE FINAL LOCATIONS, MOUNTING HEIGHTS AND ARRANGEMENTS OF RECEPTACLES, DATA OUTLETS, SYSTEMS DEVICES, ETC. WITH ARCHITECTURAL PLAN AND ELEVATIONS PRIOR TO ROUGH-IN.
3. PROVIDE ALL CONDUIT WITHIN SLAB, PER STRUCTURAL DETAIL, EXCEPT IN THE IMMEDIATE VICINITY OF CONNECTION TO PANELBOARD OR FINAL EQUIPMENT.
4. PROVIDE STRUCTURAL REINFORCEMENT FOR WALL-MOUNTED EQUIPMENT, CONDUIT, AND DEVICES WHERE WALL-MOUNTING AT THIS PRE-ENGINEERED METAL BUILDING.
5. DRAWING SHOWS DESIRED ELECTRICAL LAYOUT WITH LOCATION OF RECEPTACLES, HARD WIRED JUNCTION BOXES, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES WITH OTHER SUBCONTRACTORS TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
6. FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG. VERIFY WITH EQUIPMENT MANUFACTURER.
7. EXTERIOR RECEPTACLES SHALL BE GFCI, WEATHER RESISTANT TYPE AND HAVE WEATHERPROOF COVERS WHICH ARE RATED NEMA 3R WITH THE PLUG AND CORD ATTACHED.
8. REFER TO 0101-I101 AND I102 FOR PROCESS AND INSTRUMENTATION CABLE AND CONDUIT REQUIREMENTS. REFER TO INSTRUMENTATION DRAWINGS FOR DEVICE LOCATIONS. PROVIDE CONDUIT AND CABLES PER TABLE ON SHEET 0100-E601 FOR INSTRUMENT AND CONTROL CONNECTIONS; INSTRUMENT CONNECTIONS TO MATCH INSTRUMENT LOOP DIAGRAM(S).
9. PROVIDE MINIMUM CONDUCTOR SIZE OF #10AWG CU FOR THE IPS BUILDING AND ASSOCIATED LOADS. REFERENCE FEEDER SCHEDULE FOR ADDITIONAL FEEDER INFORMATION.
10. DO NOT PROVIDE ELECTRICAL COMPONENTS, SUCH AS CONDUIT, CABLING, NOR DEVICES, WITHIN THE WET WELL.
11. PROVIDE STANCHIONS, WITH GROUTED AND SS-ANCHORED BASES, FOR CONDUITS EXTENDING FROM SLAB, AS REQUIRED TO MEET 2020 NEC REQUIREMENTS FOR SECURING AND SUPPORTING CONDUIT AND CABLES. DELEGATED DESIGN-BUILD - DESIGN AND PROVIDE HEAT TRACING ON PIPING OF 6 INCHES, OR LESS, INCLUDING VALVES, RELIEF VALVES, AND FITTINGS.

KEYNOTES

A. SUPPLY MOTORIZED DAMPERS FROM RP/41, UNLESS NOTED OTHERWISE. COORDINATE 24V DC POWER TRANSFORMER WITH MECHANICAL CONTRACTOR.
B. ROUTE BELOW-GRADE IN CONDUITS TO PANEL AND TO PLC, PER TYPICAL INSTRUMENT WIRING SCHEDULE. DO NOT ENTER WETWELL VAULT.
C. PROVIDE INSULATED CONNECTIONS TO MEDIUM VOLTAGE MOTOR PER MOTOR MANUFACTURER RECOMMENDATIONS. PROVIDE FLEXIBLE CONDUIT AND ENCLOSURES AS REQUIRED TO ENSURE A GROUNDED BARRIER BETWEEN INSULATED MEDIUM-VOLTAGE CONDUCTORS AND OPERATOR SPACES.
D. PROVIDE HARD-WIRED CONNECTIONS BETWEEN VFD SUPPLYING MOTOR AND VARIOUS EQUIPMENT AT THIS BUILDING. REFERENCE INSTRUMENT LOOP DIAGRAMS (ILD) AND 0100-E601 FOR ADDITIONAL REQUIREMENTS.
E. PROVIDE CONDUITS AND INTERMEDIATE J-BOXES BETWEEN VFD AND FUTURE MOTOR.
F. PROVIDE 2KV VFD CABLE W/ #6 (MIN) PHASE CONDUCTORS, SYMMETRICAL GROUNDS, AND SHIELD IN CONDUIT. PROVIDE MANUFACTURER'S TERMINATION AND GROUNDING KIT AT BOTH ENDS OF VFD CABLE. F01F81410 OR F01F81420 AS APPROPRIATE.
G. PROVIDE CIRCUIT FOR MOTOR SPACE HEATER FOR PUMP SYSTEMS AND OTHER AUXILIARIES NOT SHOWN AS PLC POWERED ON THE ILD.
H. PROVIDE DIN RAIL AND TERMINALS. TRANSITION TO GROUPED CABLES FOR CONNECTION TO VFD. REFERENCE ILD SET FOR INTERLOCK CONSOLIDATION REQUIREMENTS. PROVIDE 30% SPARE GROUP CABLE CONDUCTORS AND TERMINALS.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	D.BROERMAN
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL POWER PLAN

PROFESSIONAL ENGINEER
LIC No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

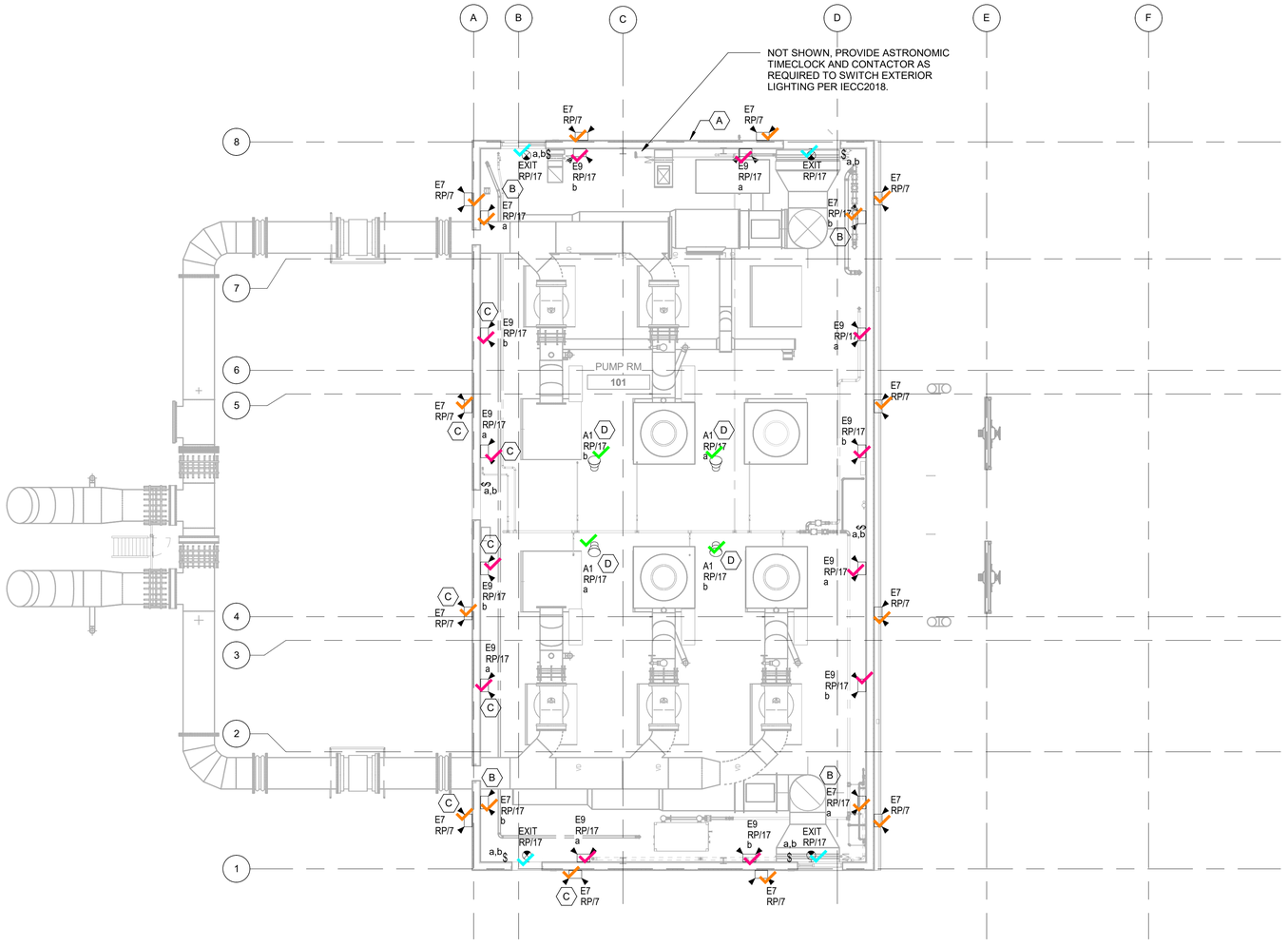
DRAWING No.
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MAIN LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. LIGHT FIXTURES ON THIS FLOOR SHALL BE CONNECTED TO PANEL 10-RP-92111 UNLESS OTHERWISE NOTED. THE CIRCUIT NUMBER AND CONTROL ZONE ARE INDICATED ON THE PLAN. CIRCUIT ABBREVIATIONS ARE AS FOLLOWS:
   - RP = 10-RP-92111
2. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES AND DEVICES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.
3. REFER TO LIGHTING FIXTURE MOUNTING DETAILS ON SHEETS 0100-E707 AND 0100-E708 FOR MORE NFORMATION. WALL-MOUNT LUMINAIRES WITH EXPOSED CONDUIT WHERE SHOWN AS WALL- MOUNTED.
5. PROVIDE NETWORK-BASED LIGHTING CONTROL SYSTEM.
6. PROVIDE UN-SWITCHED CONSTANT HOT FROM NORMAL POWER SOURCE TO EXIT SIGNS, BATTERY-BACKED LUMINAIRES AND UL924 RELAYS TO SENSE NORMAL POWER LOSS.
7. CONFIGURE EXTERIOR LIGHTING TO AUTOMATICALLY TURN ON AND OFF BASED OFF ASTRONOMICAL TIME CONTROL SCHEDULE PROVIDED BY CLIENT. AT CONTRACTOR'S OPTION, EITHER LOCATE TIMECLOCK IMMEDIATELY ABOVE OR BELOW PANELBOARD SUPPLYING LIGHTING.
8. MOUNT EXTERIOR WALL-MOUNT LUMINAIRES AT 16'-0" AFF, TYP.
9. MOUNT INTERIOR WALL-MOUNT LUMINAIRES AT 16'-0" AFF, UNLESS OTHERWISE NOTED, TYP.
10. MOUNT INTERIOR PENDANT LUMINAIRES AT 22'-0" AFF, TYP.
11. DO NOT PROVIDE ELECTRICAL COMPONENTS, SUCH AS CONDUIT, CABLING, LIGHTING, NOR DEVICES, WITHIN THE WET WELL.

KEYNOTES

A. PROVIDE PHOTOCELL CONTROL FOR EXTERIOR LUMINAIRES ON NORTH SIDE OF FACILITY. SWITCH EXTERIOR LUMINAIRES USING THIS SENSOR. LIGHTS ARE INTENDED FOR CONTINUOUS OPERATION OVERNIGHT FOR WORKPLACE SAFETY AND SECURITY OF THIS KEY SALT LAKE CITY FACILITY. MOUNT SENSOR 10 FEET ABOVE FINISHED GRADE.

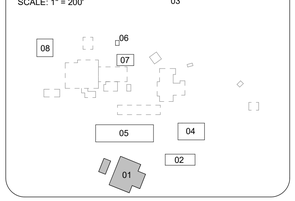
B. MOUNT LUMINAIRE AT 9'-0" AFF.

C. OMIT BATTERY SYSTEM AND BATTERY FROM LUMINAIRES IDENTIFIED BY THIS NOTE.

D. DELEGATED DESIGN - COORDINATE WITH BUILDING STRUCTURAL DESIGNER AND PROVIDE STRUCTURE TO SURFACE MOUNT IDENTIFIED LUMINAIRE AT 33'-6" AFF, AND TO ORIENT LUMINAIRE 45 DEGREES UP FROM NADIR, PERPENDICULAR TO THE NEAREST SHORT EXTERIOR WALL.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: D.BROERMAN
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

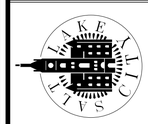
REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL LIGHTING PLAN





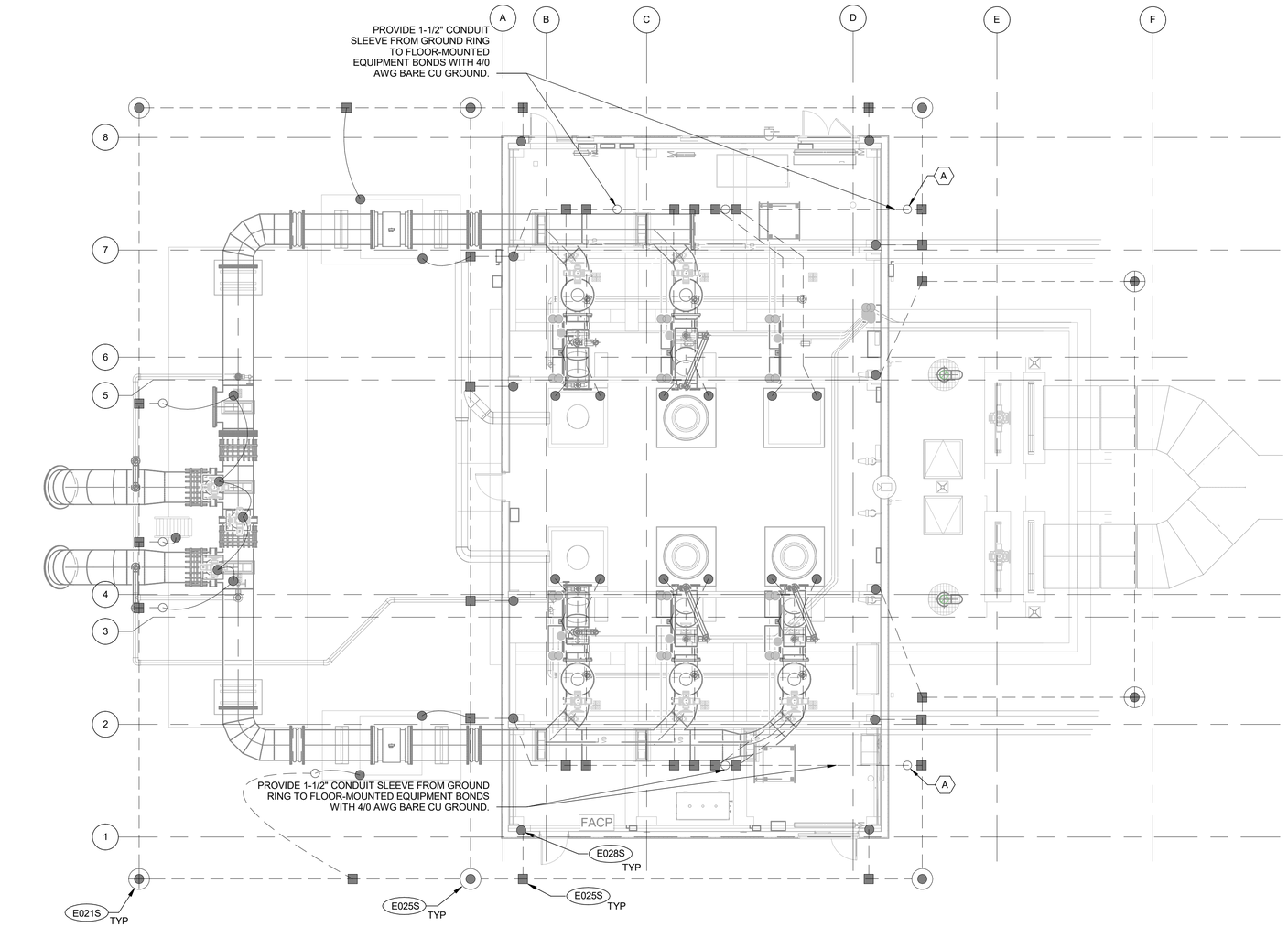
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0101-E122

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DATE: 3/29/2023 9:33:35 AM

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MAIN LEVEL GROUNDING PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

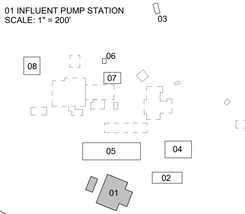
1. GROUNDING SHALL BE 4/0 COPPER GROUND CONDUCTOR, TYPICAL.
2. GROUND ROD SHALL BE 3/4" DIA X 20'-0" LONG, TYP.
3. BOND TO DUCT BANKS ALONG PERIMETER OF STRUCTURAL PAD AND TO EXISTING FLOW METER VAULT. (NOT SHOWN)
4. ROUTE UNDERFLOOR CONDUIT AND WIRING WITHIN SLAB, NOT WITHIN WETWELL. MAINTAIN PHYSICAL SEPARATION OF WETWELL FROM PUMP ROOM.
5. PROVIDE LIGHTNING PROTECTION SYSTEM (LPS). COORDINATE GROUNDING WITH LPS. NOT SHOWN, TO AVOID CONFLICT WITH LPS DESIGN.

KEYNOTES

A. PROVIDE CONDUIT RISER TO WITHIN 6 INCHES OF THE GROUND RING ELEVATION. PROVIDE PVC-COATED RIGID CONDUIT EXPANSION JOINT IN MIDDLE OF VERTICAL RISER OUTSIDE OF BUILDING. DO NOT PENETRATE THE FOUNDATION WALL WITH THE CONDUITSLEEVE.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL GROUNDING PLAN

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

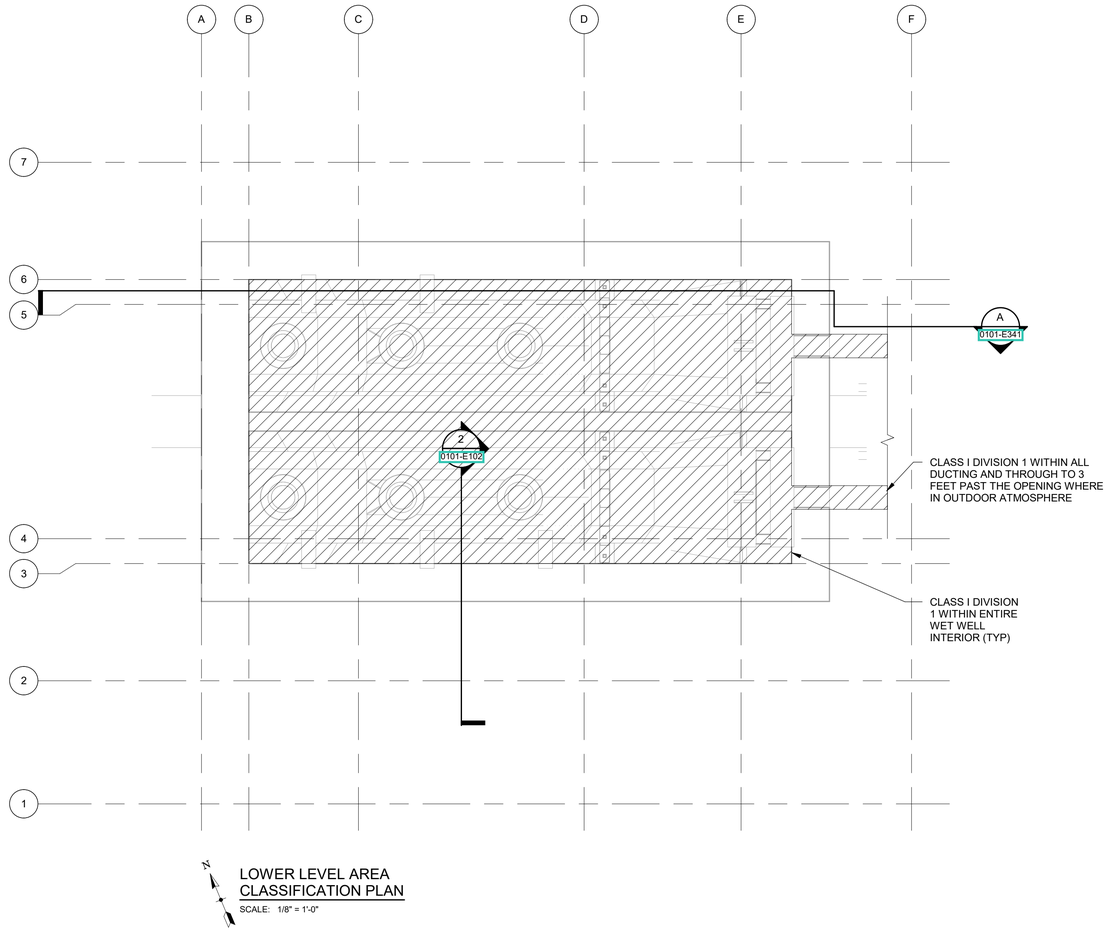
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SHEET _____ OF -

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DATE: 3/29/2023 9:31:22 AM

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LOWER LEVEL AREA
CLASSIFICATION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

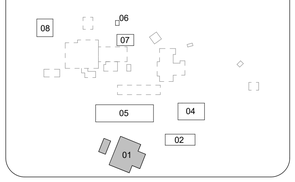
1. MAIN LEVEL INTERIOR IS NOT CLASSIFIED. DUE TO ISOLATION FROM FLAMMABLE SOURCES. DO NOT MAKE OPENINGS FOR GASSES TO FLOW FROM THE WET WELL INTO THE MAIN LEVEL SPACE.

LEGEND

- UNCLASSIFIED
- CLASS 1, DIVISION 1, GROUPS C,D
- CLASS 1, DIVISION 2, GROUPS C,D
- CLASS 1, DIVISION 2 GROUP C/D AREA THAT IS UNCLASSIFIED BY VENTILATION AT MORE THAN 6 AIR CHANGES PER HOUR

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	D.BROERMAN
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	- - -
EWO NO.:	-
ACCOUNT NO.:	524905086

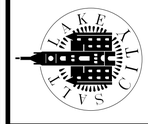
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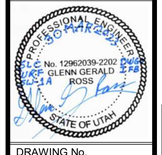
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A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

LOWER LEVEL AREA CLASSIFICATION PLAN





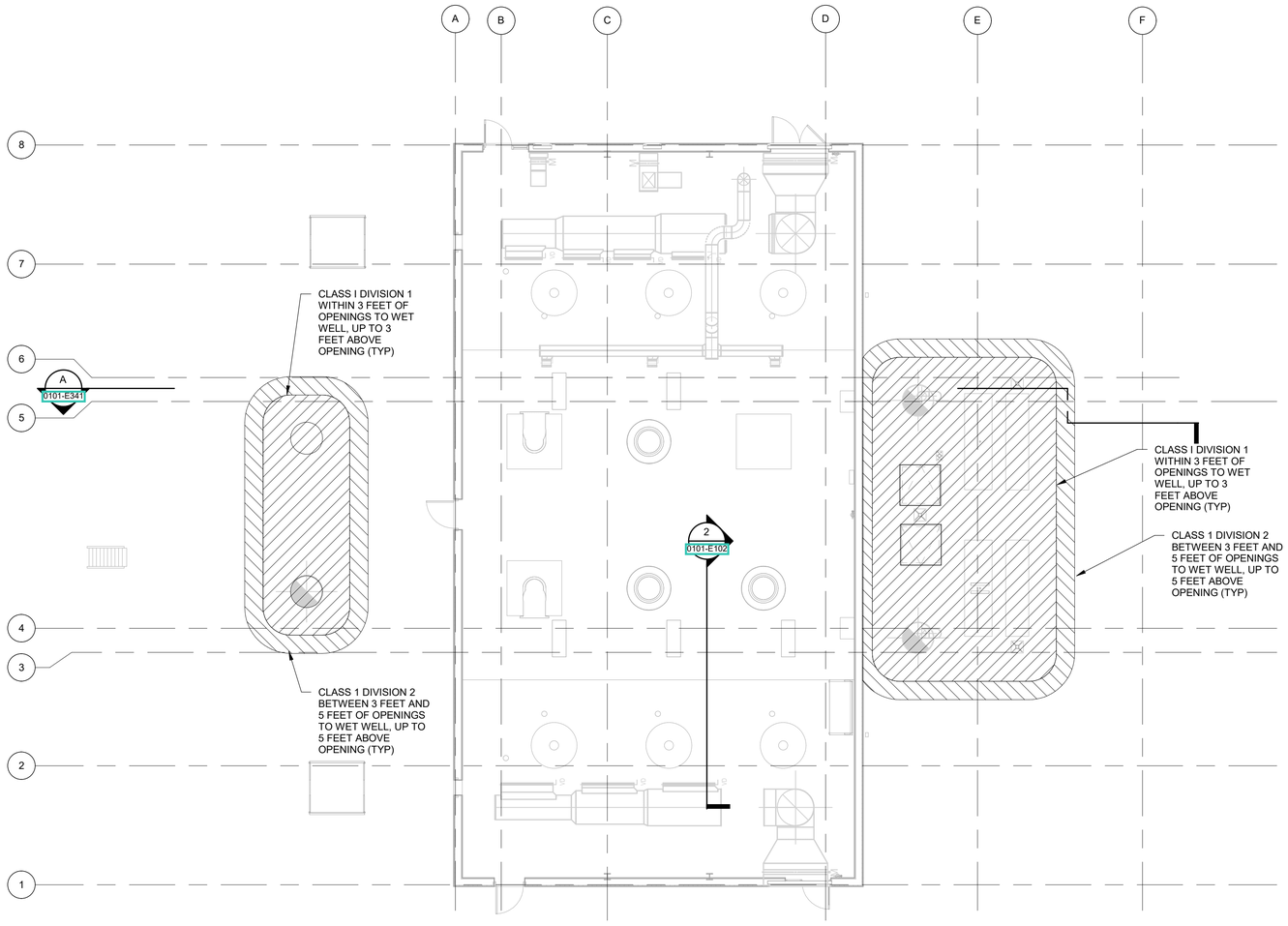
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MAIN LEVEL AREA CLASSIFICATION

SCALE: 1/8" = 1'-0"

GENERAL NOTES

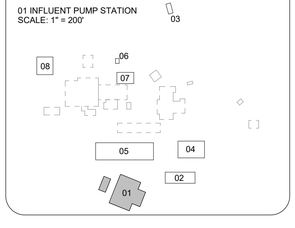
1. MAIN LEVEL INTERIOR IS NOT CLASSIFIED. DUE TO ISOLATION FROM FLAMMABLE SOURCES. DO NOT MAKE OPENINGS FOR GASSES TO FLOW FROM THE WET WELL INTO THE MAIN LEVEL SPACE.

LEGEND

- UNCLASSIFIED
- CLASS 1, DIVISION 1, GROUPS C,D
- CLASS 1, DIVISION 2, GROUPS C,D
- CLASS 1, DIVISION 2 GROUP C/D AREA THAT IS UNCLASSIFIED BY VENTILATION AT MORE THAN 6 AIR CHANGES PER HOUR

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	D.BROERMAN
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET: -

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

MAIN LEVEL AREA CLASSIFICATION PLAN

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

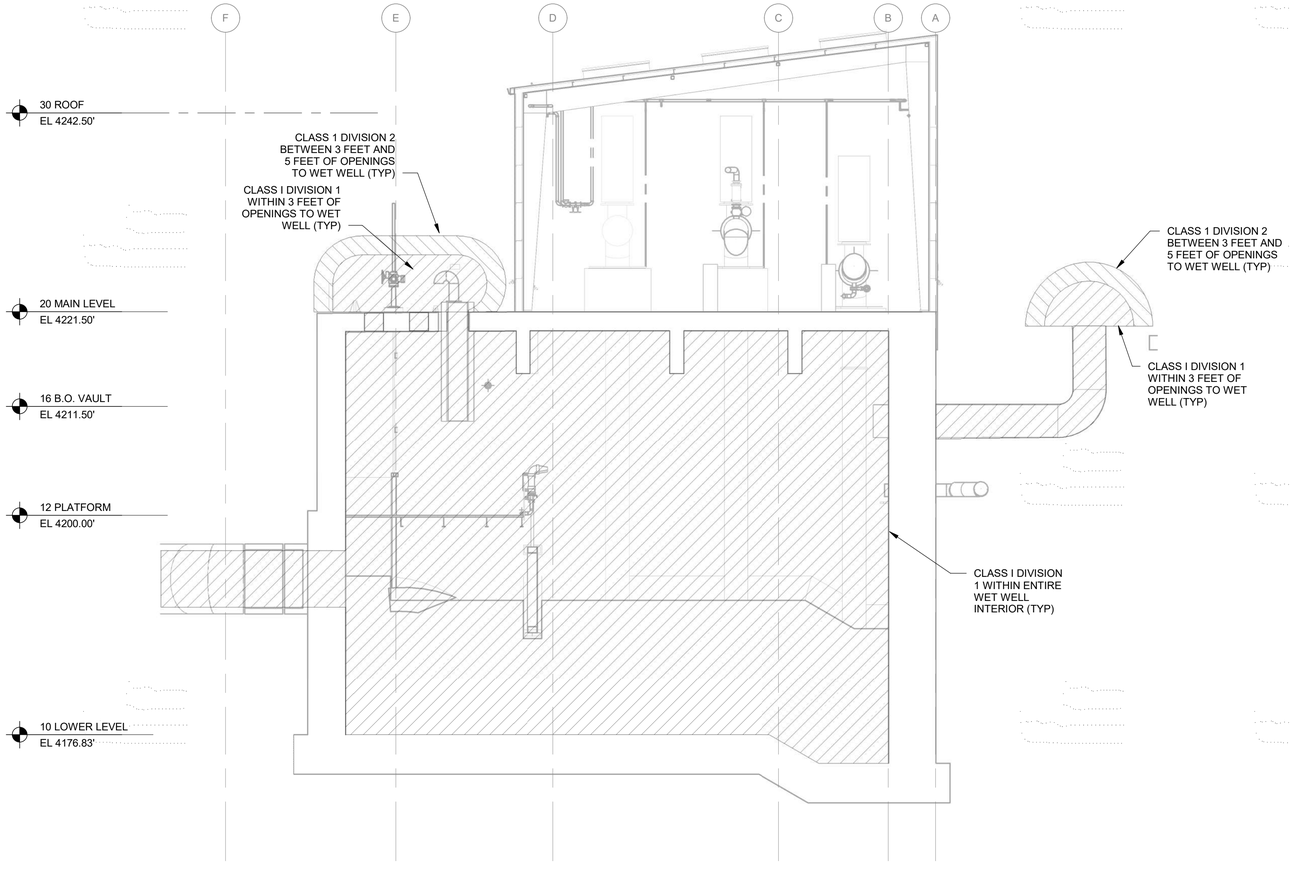
DRAWING No.
0101-E142

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 9:31:30 AM

FILE: BIM 360://60572288-Salt Lake City 2019\524905350_0101-E001.rvt



A | SECTION
0101-E141 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. MAIN LEVEL INTERIOR IS NOT CLASSIFIED. DUE TO ISOLATION FROM FLAMMABLE SOURCES. DO NOT MAKE OPENINGS FOR GASSES TO FLOW FROM THE WET WELL INTO THE MAIN LEVEL SPACE.
2. CLASSIFICATION IS PER NFPA 820. CLASSIFICATION AT PUMP ROOM FLOOR BOUNDARY IS PER 2016 NFPA 820, "STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES", CHAPTER 4, TABLE 4.2.2, ROW 18.

LEGEND

- UNCLASSIFIED
- CLASS 1, DIVISION 1, GROUPS C,D
- CLASS 1, DIVISION 2, GROUPS C,D
- CLASS 1, DIVISION 2 GROUP C/D AREA THAT IS UNCLASSIFIED BY VENTILATION AT MORE THAN 6 AIR CHANGES PER HOUR

SCALE: As Indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	D.BROERMAN
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

AREA CLASSIFICATION SECTION

PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS

DRAWING No.
0101-E341

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 9:31:40 AM

FILE: BIM 360://6057228-Salt Lake City 2019\524905350_0101-E001.rvt

Branch Panel: 01-RP-92111

LOCATION: PUMP RM 101
SUPPLY FROM: PANEL 01-PP-94120, VIA 01-TR-94111
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4

A.I.C. RATING: 10k AIC SCCR
MAINS TYPE: MAIN CIRCUIT BREAKER
MAINS RATING: 100 A
MCB RATING: 100 A, 3 POLE, LOCKABLE

NOTES:
GENERAL SCHEDULE NOTE - PROVIDE MANUFACTURERS LOCKING PROVISION FOR EACH CIRCUIT BREAKER.
GENERAL SCHEDULE NOTE - PROVIDE EXTERNAL SURGE PROTECTIVE DEVICE, AND BOND TO GROUND GRID PER MANUFACTURER INSTRUCTIONS.
NOTE 1 - PROVIDE CLASS A PERSONNEL-PROTECTION TYPE GROUND FAULT INTERRUPTING CIRCUIT BREAKER.
NOTE 2 - PROVIDE EQUIPMENT PROTECTIVE BREAKER IN ACCORDANCE WITH 2020 NEC 427.22.

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
RP/1				0 VA / 0 VA						RP/2
RP/3	MAIN CIRCUIT BREAKER - SECONDARY	60 A	3		0 VA / 0 VA		3	30 A	SURGE PROTECTIVE DEVICE	RP/4
RP/5						0 VA / 0 VA				RP/6
RP/7	LIGHTING - EXTERIOR	20 A	1	10 VA / 360 VA			1	20 A	01-OWS-98000 (NOTE 1)	RP/8
RP/9	01-FACP FIRE ALARM CP	20 A	1		420 VA / 2000 VA		2	25 A	WEST HEAT TRACING (NOTE 2)	RP/10
RP/11	ACCESS CONTROL PANEL 01-ACS-80101	15 A	1			200 VA / 2000 VA				RP/12
RP/13	01-MAU-81210 CTL POWER	15 A	1	180 VA / 100 VA			1	15 A	01-FIT-10201 @MH W. OF MH-1	RP/14
RP/15	RECEPTACLE - BUILDING OUTSIDE	20 A	1		900 VA / 0 VA		--	--	SPACE	RP/16
RP/17	LIGHTING - PUMP ROOM 101	20 A	1			392 VA / 600 VA	1	20 A	01-J-11110C AUXILIARIES FOR 01-P-11110	RP/18
RP/19	RECEPTACLE - PUMP RM 101 (NOTE 1)	20 A	1	2920 VA / 600 VA			1	20 A	01-J-11130C AUXILIARIES FOR 01-P-11130	RP/20
RP/21	120 V - MOTORIZED DAMPERS	15 A	1		0 VA / 600 VA		1	20 A	01-J-11150C AUXILIARIES FOR 01-P-11150	RP/22
RP/23	SPARE	15 A	1			0 VA / 600 VA	1	20 A	01-J-11220C AUXILIARIES FOR 01-P-11220	RP/24
RP/25	SPACE	--	--	0 VA / 600 VA			1	20 A	01-J-11260C AUXILIARIES FOR 01-P-11260	RP/26
RP/27	01-CTC-90302, BMS	20 A	1		1500 VA / 600 VA		1	20 A	01-J-11240C AUXILIARIES FOR 01-P-11240	RP/28
RP/29	DRAIN VALVE 01-FV-11413	15 A	1			300 VA / 0 VA	1	15 A	SPARE	RP/30
RP/31	DRAIN VALVE 01-FV-11423	15 A	1	300 VA / 0 VA			1	15 A	SPARE	RP/32
RP/33	SPARE	20 A	1		0 VA / 0 VA		--	--	SPACE	RP/34
RP/35	SPARE (NOTE 1)	20 A	1			0 VA / 0 VA	--	--	SPACE	RP/36
RP/37	SPARE	15 A	1	0 VA / 0 VA			--	--	SPACE	RP/38
RP/39	SPARE (NOTE 2)	25 A	2		0 VA / 0 VA		--	--	SPACE	RP/40
RP/41						0 VA / 0 VA	--	--	SPACE	RP/42
			TOTAL LOAD:	5060 VA	5941 VA	4092 VA				
			TOTAL AMPS:	43 A	51 A	34 A				

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	180 VA	100.00%	180 VA		
Lighting	401 VA	125.00%	502 VA	**TOTAL CONNECTED LOAD:**	10393 VA
Motor	600 VA	112.50%	675 VA	**TOTAL ESTIMATED DEMAND:**	12143 VA
Other	969 VA	100.00%	969 VA	**TOTAL CONNECTED CURRENT:**	29 A
Power	6300 VA	125.00%	7875 VA	**TOTAL ESTIMATED DEMAND...**	34 A
Receptacle	1980 VA	100.00%	1980 VA		

Branch Panel: 01-PP-94120

LOCATION: PUMP RM 101
SUPPLY FROM: 01-MCC-94110B
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTS: 480V DELTA
PHASES: 3
WIRES: 3

A.I.C. RATING: 42KAIC
MAINS TYPE: MAIN CIRCUIT BREAKER
MAINS RATING: 400 A
MCB RATING: 400 A, 3 POLE, LOCKABLE

NOTES:
GENERAL SCHEDULE NOTE - PROVIDE MANUFACTURERS LOCKING PROVISION FOR EACH CIRCUIT BREAKER.
GENERAL SCHEDULE NOTE - PROVIDE EXTERNAL SURGE PROTECTIVE DEVICE, AND BOND TO GROUND GRID PER MANUFACTURER INSTRUCTIONS.
GENERAL SCHEDULE NOTE - PROVIDE MAXIMUM NUMBER OF SPACES AVAILABLE WITH MANUFACTURER PANEL CONFIGURATIONS.
(NOTE 1) PROVIDE SUB-FEED BREAKER. COORDINATE WITH ACTUAL VALVE ACTUATOR PROVIDED AND ADJUST AS APPROPRIATE. PROVIDE BREAKER AS LARGE AS REQUIRED TO AVOID NUISANCE TRIPPING OF THIS...

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
PP0/1				1222 VA / 6667 VA						PP0/2
PP0/3	01-MAU-81210	15 A	3		1222 VA / 6667 VA		3	30 A	01-EWH-71010	PP0/4
PP0/5						1222 VA / 6667 VA				PP0/6
PP0/7				7500 VA / 2133 VA						PP0/8
PP0/9	01-F-81420	40 A	3		7500 VA / 2133 VA		3	20 A	01-P-71010	PP0/10
PP0/11						7500 VA / 2133 VA				PP0/12
PP0/13				7500 VA / 2133 VA						PP0/14
PP0/15	01-F-81410	40 A	3		7500 VA / 2133 VA		3	20 A	01-P-71020	PP0/16
PP0/17						7500 VA / 2133 VA				PP0/18
PP0/19				7500 VA / 500 VA						PP0/20
PP0/21	PURGE FAN DISCONNECT	20 A	3		7500 VA / 266 VA		3	15 A	POLE LIGHTING@IPS BLDG VICINITY	PP0/22
PP0/23						7500 VA / 500 VA				PP0/24
PP0/25				10000 VA / 0 VA			1	20 A	SPARE	PP0/26
PP0/27	01-RP-92111, VIA 01-TR-94111	70 A	3		10000 VA / 0 VA		1	20 A	SPARE	PP0/28
PP0/29						10000 VA / 0 VA	1	20 A	SPARE	PP0/30
PP0/31	SPACE	--	--	0 VA / 0 VA			1	20 A	SPARE	PP0/32
PP0/33	SPACE	--	--		0 VA / 0 VA		1	20 A	SPARE	PP0/34
PP0/35	SPACE	--	--			0 VA / 0 VA	1	20 A	SPARE	PP0/36
PP0/37				0 VA / 10824 VA						PP0/38
PP0/39	SURGE PROTECTIVE DEVICE	30 A	3		0 VA / 10824 VA		3	100 A	PANEL 01-PP-94120	PP0/40
PP0/41						0 VA / 10824 VA				PP0/42
PP0/43				20775 VA / 20775 VA						PP0/44
PP0/45	01-FCV-11201 (NOTE 1)	150 A	3		20775 VA / 20775 VA		3	150 A	01-FCV-11101 (NOTE 1)	PP0/46
PP0/47						20775 VA / 20775 VA				PP0/48
			TOTAL LOAD:	93461 VA	93246 VA	93461 VA				
			TOTAL AMPS:	337 A	336 A	337 A				

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	3665 VA	100.00%	3665 VA		
Lighting - Exterior	1266 VA	100.00%	1266 VA	**TOTAL CONNECTED LOAD:**	259648 VA
Motor	155437 VA	112.22%	174431 VA	**TOTAL ESTIMATED DEMAND:**	299141 VA
Other	20000 VA	100.00%	20000 VA	**TOTAL CONNECTED CURRENT:**	312 A
Power	83297 VA	125.00%	104122 VA	**TOTAL ESTIMATED DEMAND...**	360 A

SCALE:

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: D.BROERMAN
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

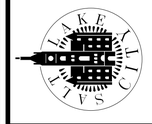
REVISIONS

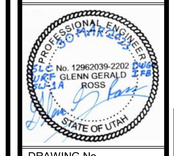
NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PANEL SCHEDULES





DRAWING No.
0101-E601

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 9:31:41 AM
FILE: BIM 360://6057228-Salt Lake City 2019/524905350_0101-E001.rvt

Branch Panel: 01-PP-94121

LOCATION: PUMP RM 101
SUPPLY FROM: PANEL 01-PP-94120
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTS: 480V DELTA
PHASES: 3
WIRES: 3

A.I.C. RATING: 42KAIC
MAINS TYPE: MAIN CIRCUIT BREAKER
MAINS RATING: 100 A
MCB RATING: 100 A, 3 POLE, LOCKABLE

NOTES:
GENERAL SCHEDULE NOTE - PROVIDE MANUFACTURERS LOCKING PROVISION FOR EACH CIRCUIT BREAKER.
GENERAL SCHEDULE NOTE - PROVIDE EXTERNAL SURGE PROTECTIVE DEVICE, AND BOND TO GROUND GRID PER MANUFACTURER INSTRUCTIONS.
GENERAL SCHEDULE NOTE - PROVIDE MAXIMUM NUMBER OF SPACES AVAILABLE WITH MANUFACTURER PANEL CONFIGURATIONS.

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
PP1/1				2133 VA / 1000 VA						PP1/2
PP1/3	01-FCV-11422	15 A	3		2133 VA / 1000 VA		3	15 A	VALVE 01-FV-11222	PP1/4
PP1/5						2133 VA / 1000 VA				PP1/6
PP1/7				2133 VA / 1000 VA						PP1/8
PP1/9	01-FCV-11431	15 A	3		2133 VA / 1000 VA		3	15 A	VALVE 01-FV-11112	PP1/10
PP1/11						2133 VA / 1000 VA				PP1/12
PP1/13				2133 VA / 1000 VA						PP1/14
PP1/15	01-FCV-11412	15 A	3		2133 VA / 1000 VA		3	15 A	VALVE 01-FV-11242	PP1/16
PP1/17						2133 VA / 1000 VA				PP1/18
PP1/19				0 VA / 1000 VA						PP1/20
PP1/21	SPARE	15 A	3		0 VA / 1000 VA		3	15 A	VALVE 01-FV-11132	PP1/22
PP1/23						0 VA / 1000 VA				PP1/24
PP1/25				0 VA / 0 VA						PP1/26
PP1/27	SPARE	20 A	3		0 VA / 0 VA		3	15 A	SPARE	PP1/28
PP1/29						0 VA / 0 VA				PP1/30
PP1/31				0 VA / 1000 VA						PP1/32
PP1/33	SPARE	40 A	3		0 VA / 1000 VA		3	15 A	VALVE 01-FV-11152	PP1/34
PP1/35						0 VA / 1000 VA				PP1/36
PP1/37				0 VA / 0 VA						PP1/38
PP1/39	SPARE	70 A	3		0 VA / 0 VA		3	30 A	SURGE PROTECTIVE DEVICE	PP1/40
PP1/41						0 VA / 0 VA				PP1/42
		TOTAL LOAD:		10824 VA	10824 VA	10824 VA				
		TOTAL AMPS:		39 A	39 A	39 A				

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	32472 VA	110.25%	35800 VA		
				TOTAL CONNECTED LOAD:	32472 VA
				TOTAL ESTIMATED DEMAND:	35800 VA
				TOTAL CONNECTED CURRENT:	39 A
				TOTAL ESTIMATED DEMAND...	43 A

SCALE:

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: D.BROERMAN
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

PANEL SCHEDULES

PROFESSIONAL ENGINEER
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

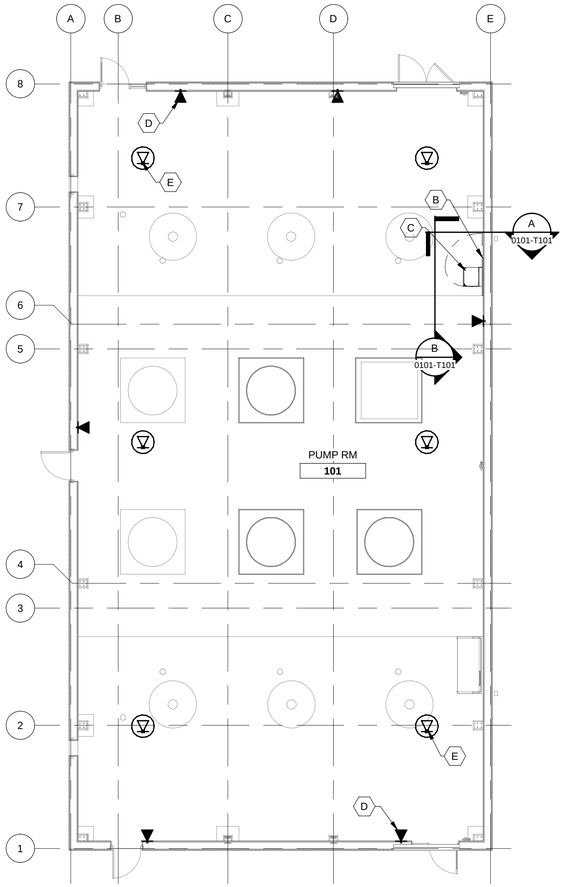
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0101-E602

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

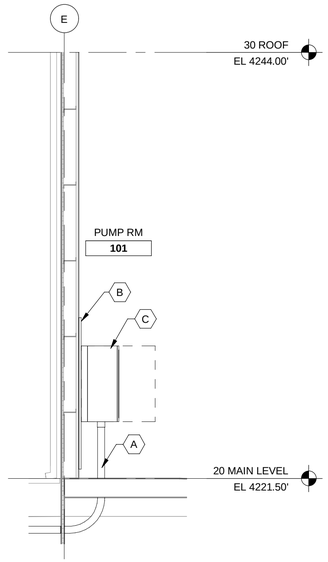
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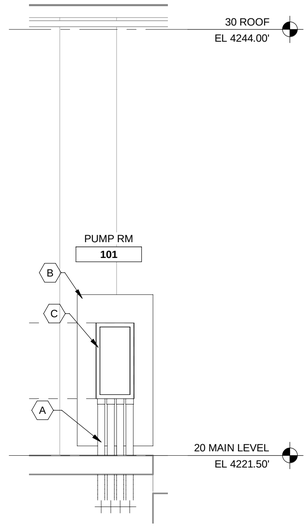
TELECOMMUNICATIONS MAIN LEVEL PLAN

SCALE: 1/8" = 1'-0"



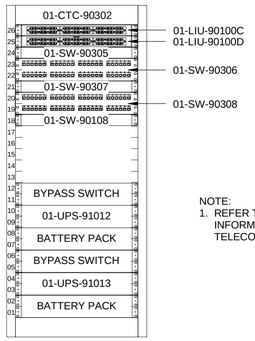
A | 101 - SOUTH WALL ELEVATION

0101-T101 | SCALE: 1/4" = 1'-0"



B | 101 - EAST WALL ELEVATION

0101-T101 | SCALE: 1/4" = 1'-0"



NOTE:
1. REFER TO SHEET 0100-I607 FOR ADDITIONAL INFORMATION AND COORDINATION OF TELECOMMUNICATIONS RACK EQUIPMENT.

C | TELECOMMUNICATIONS RACK ELEVATION

NTS

GENERAL NOTES

1. REFER TO SHEET 0100-T001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

KEYNOTES

A (4) 4" PVC CONCRETE ENCASED CONDUITS UNDERGROUND FOR FIBER OPTIC CABLING TO ELECTRICAL BUILDING. CONDUITS TO BE GAS TIGHT SEALED WHEN PENETRATING WET WELL.

B (3/4") PLYWOOD BACK TREATED WITH FIRE RATED PAINT. MOUNTED A MINIMUM OF 6" AFF.

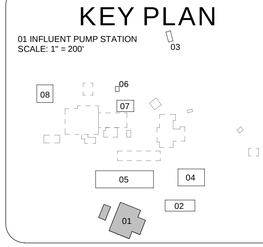
C TELECOMMUNICATIONS WALL MOUNTED CABINET LOCATION.

D SURFACE MOUNTED VOICE OUTLET LOCATION. TYPICAL.

E WIRELESS ACCESS POINT LOCATION. TYPICAL.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: K. ZEBROSKY
DRAWN BY: B. MARTIR
CHECKED BY: P. VITONE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905390

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	BM	KZ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

TELECOMMUNICATIONS MAIN LEVEL PLAN

BKSI
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI SPECIALIST

CERT	REG.NO	EXPIRES
RCDD	136752	12/31/2025
RCDD/NTS	136765	12/31/2024

KRISTIAN ZEBROSKY 04/03/2023

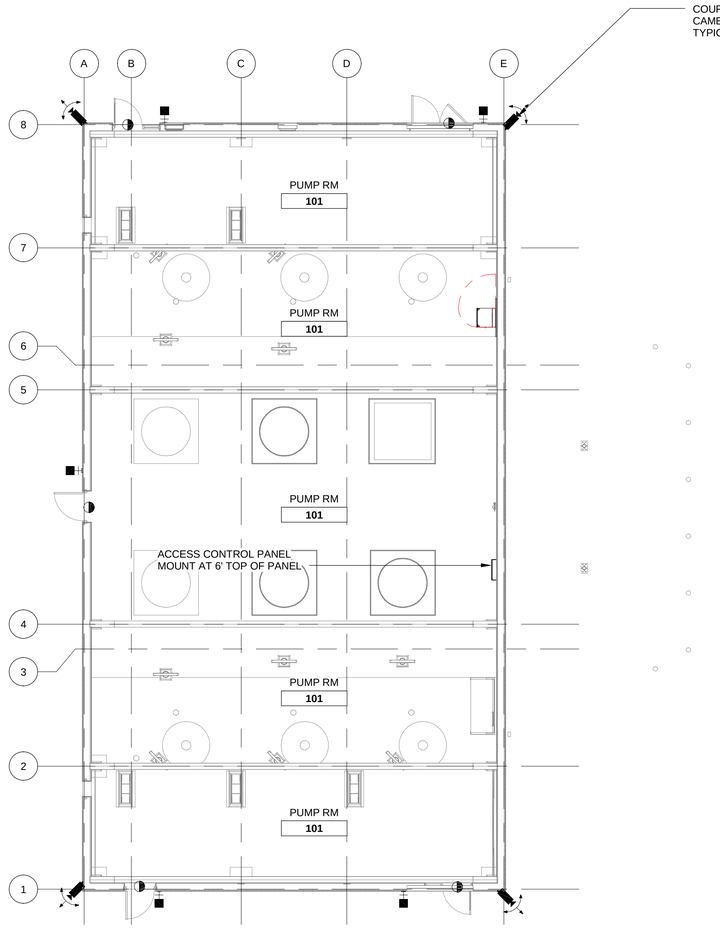
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0101-T101

SHEET ____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 11:23:51 AM

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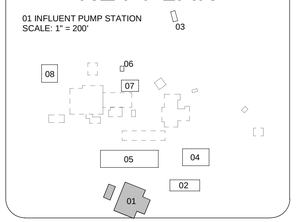
N

SECURITY MAIN LEVEL PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: 1/8" = 1'-0"

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	K. ZEBROSKY
DRAWN BY:	K.EAGAN
CHECKED BY:	K. LONG
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	BM	KZ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

ELECTRONIC SECURITY MAIN LEVEL PLAN

REGISTERED COMMUNICATIONS CONSTRUCTION DESIGNER
BICSI
NTS SPECIALIST

CERT	REG. NO.	EXPIRES
RCDD	136703	12/31/2025
RCDD/NTS	136703	12/31/2024

Kristian Zebrosky 04/03/2023
KRISTIAN ZEBROSKY

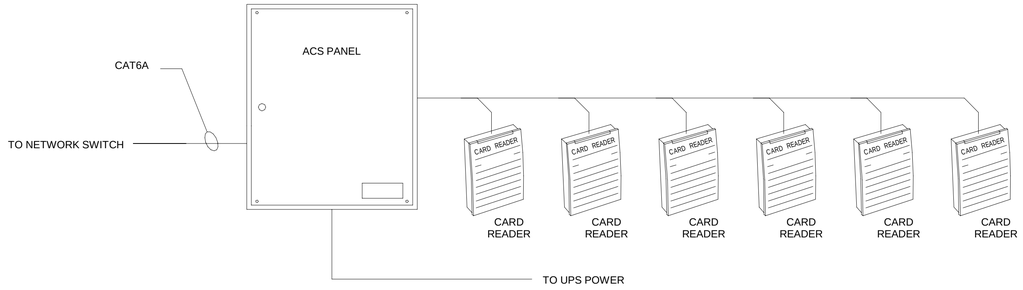
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0101-Y101

SHEET ____ OF -

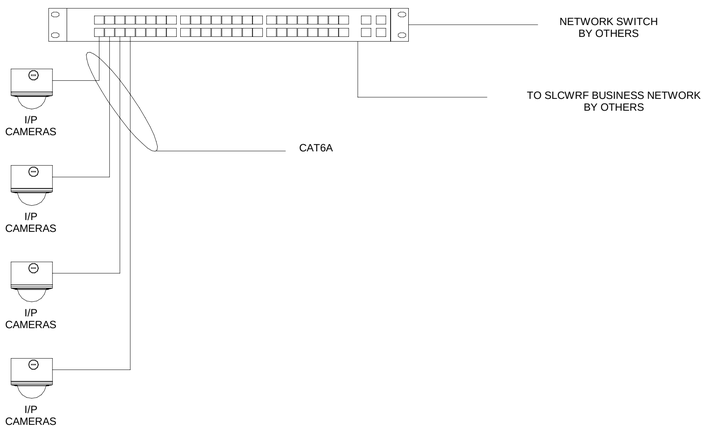
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/31/2023 10:15:58 AM

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1 ACCESS CONTROL ONE LINE DIAGRAM
NTS



2 VIDEO SURVEILIANCE ONE LINE DIAGRAM
NTS

DATE: 3/31/2023 10:15:58 AM

FILE: BIM 360://6057228-Salt Lake City 2019/5249/5350_0101-T001.rvt

SCALE: 12" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: K. ZEBROSKY
DRAWN BY: K.EAGAN
CHECKED BY: K. LONG
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	BM	KZ

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS

ELECTRONIC SECURITY SINGLE LINE DIAGRAMS

BKSI
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
NTS SPECIALIST

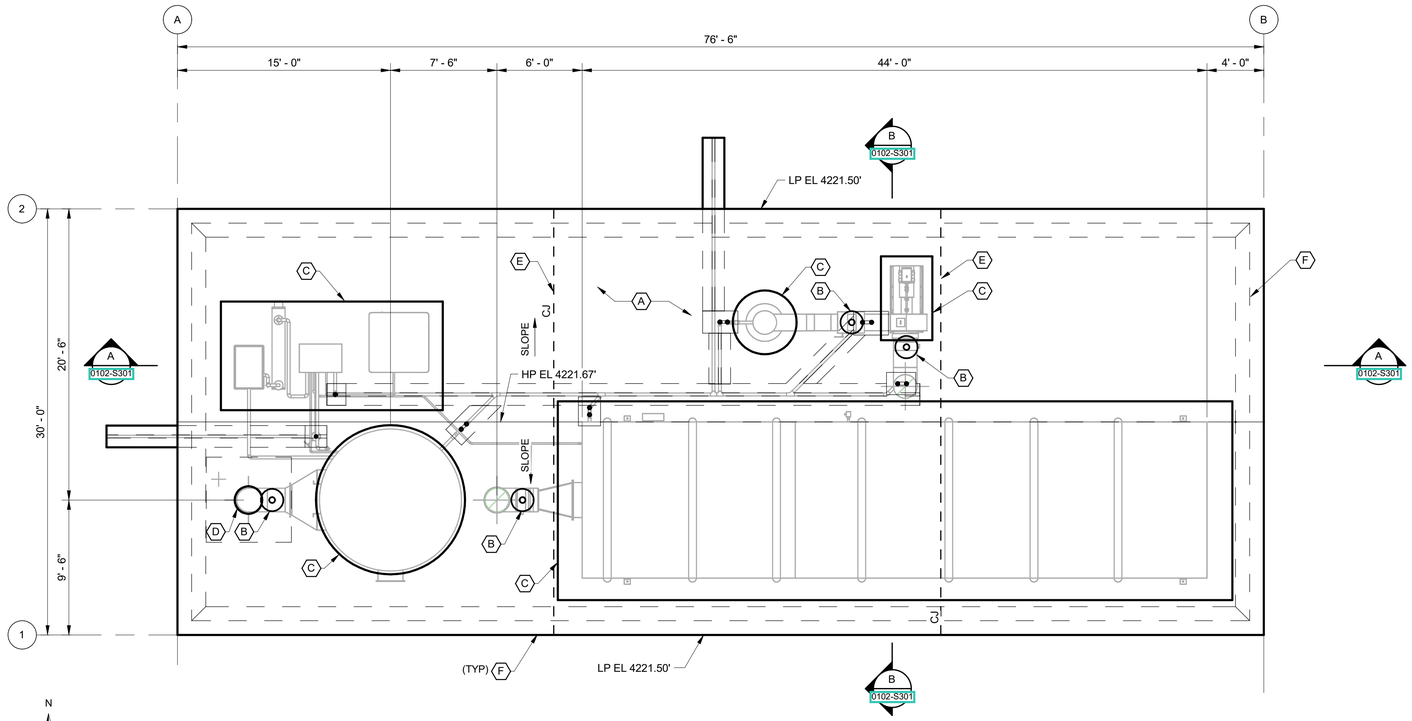
CERT.	REG. NO.	EXPIRES
RCDD	136703	12/31/2025
RCDD/NTS	136703	12/31/2024

KRISTIAN ZEBROSKY 04/03/2023

DRAWING No.
0101-Y601

SHEET ____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



N

FOUNDATION PLAN

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

GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS A.
2. PIPE SUPPORT SPACING MAX 12' PER SMACNA THERMOSET FRP DUCT C CONSTRUCTION MANUAL. SPACING MAY BE INCREASED PER FRP PIPE MANUFACTURERS RECOMMENDATIONS. PROVIDE PIPE SUPPORT MIN. 4 PIPE DIAMETERS FROM EXPANSION JOINTS.

KEYNOTES

A. 10" THICK SLAB ON GRADE. SEE TYPICAL DETAIL S043S ON 0100-S702.

B. PIPE SUPPORTS PER TYPICAL DETAIL S104S, EXACT LOCATIONS TO BE PROVIDED BY CONTRACTOR TO MATCH EQUIPMENT PROCURED.

C. HOUSEKEEPING PAD PER TYPICAL DETAIL S013S, TYP. COORDINATE EXTENTS OF EQUIPMENT PADS WITH EQUIPMENT PROCURED.

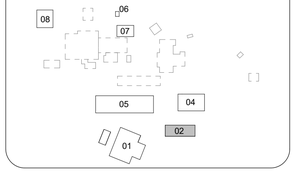
D. SLAB OPENING PER TYPICAL DETAIL S001S, COORDINATE LOCATION WITH EQUIPMENT PROCURED.

E. CONTROL JOINT (CJ), TYPICAL DETAIL S004S.

F. THICKENED SLAB EDGE PER TYPICAL DETAIL S044S, TYP ALL EXPOSED EDGES.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	M.WASHMUTH
DRAWN BY:	J.KUNKEL
CHECKED BY:	R.HAWTHORNE
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

FOUNDATION PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

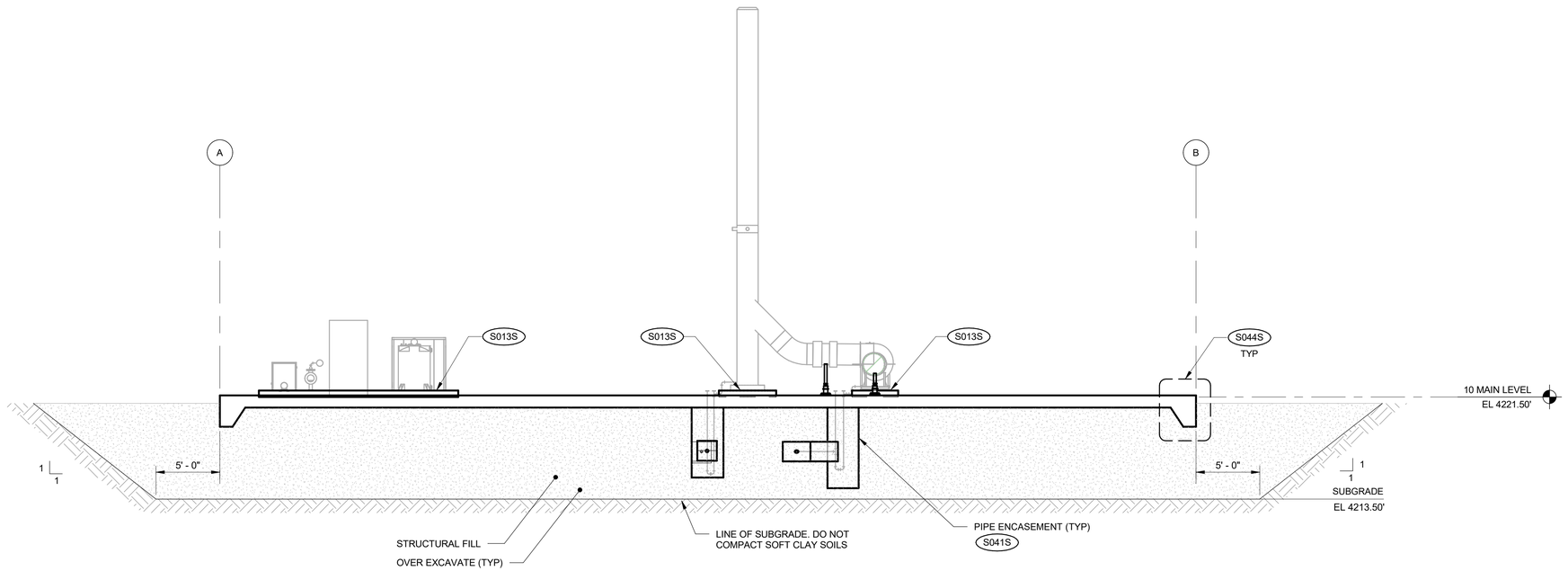
DRAWING No.
0102-S101

SHEET _____ OF _____

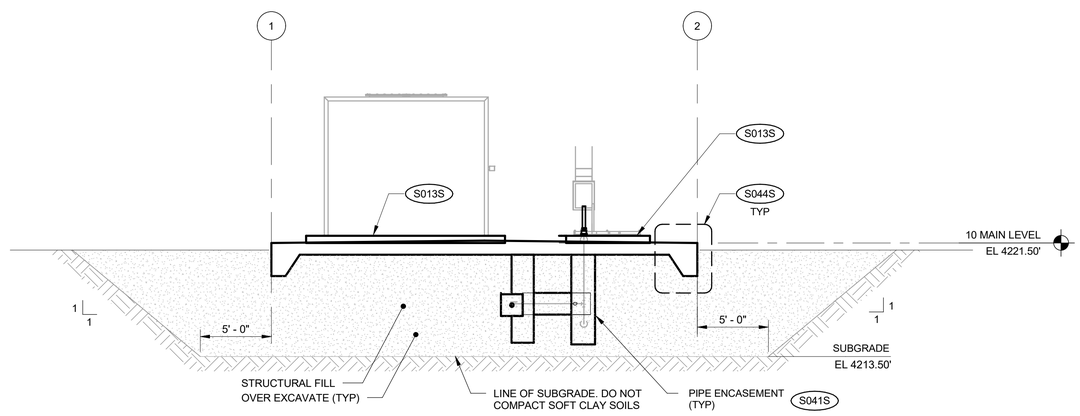
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A | SECTION
0102-S101 SCALE: 3/16" = 1'-0"



B | SECTION
0102-S101 SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. DEWATER SUBGRADE IN ACCORDANCE WITH DEWATERING SPECIFICATION 31 23 19 SUCH THAT EXCAVATION AND FILL ACTIVITIES ARE PERFORMED IN DRY CONDITIONS.

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

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.WASHMUTH
DRAWN BY: J.KUNKEL
CHECKED BY: R.HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

SECTIONS

LICENSED PROFESSIONAL ENGINEERS
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

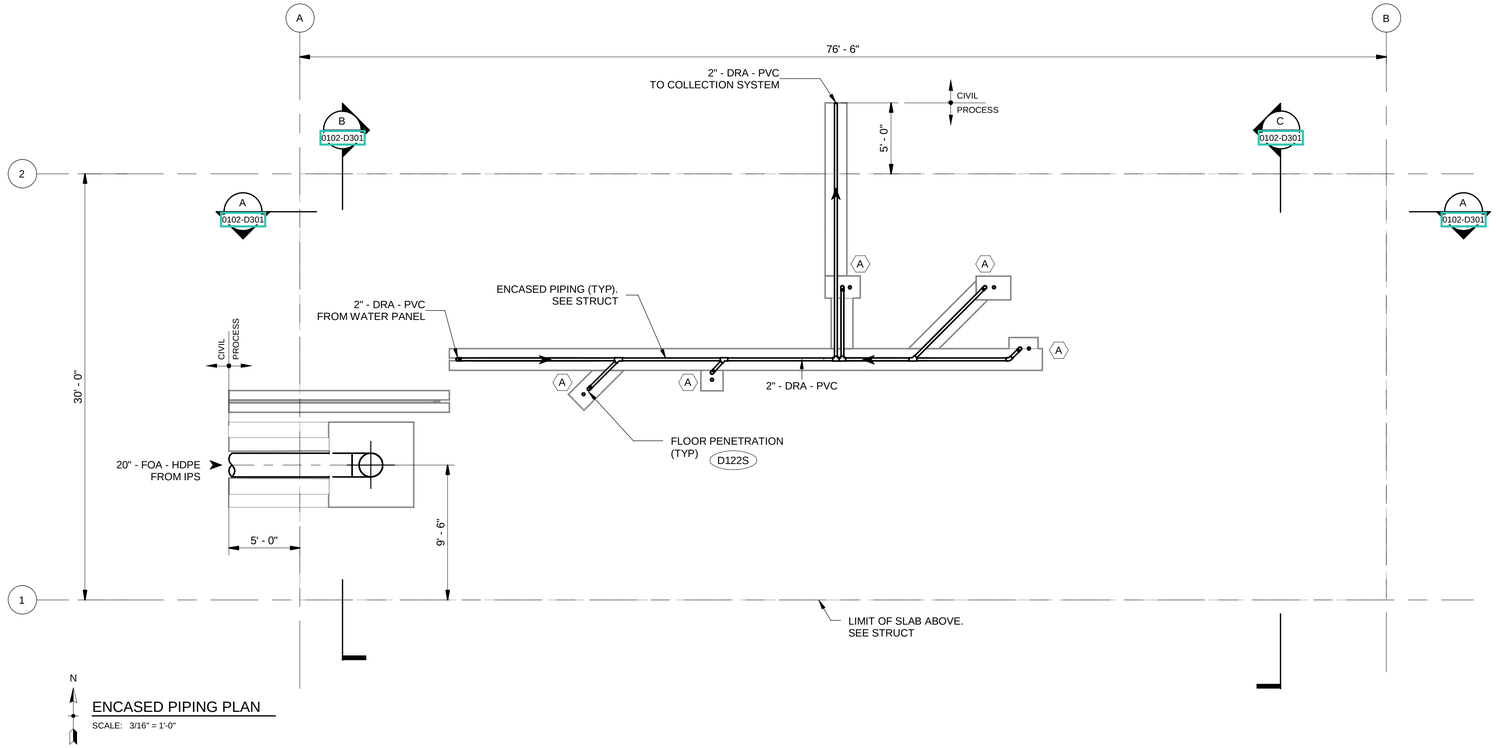
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0102-S301

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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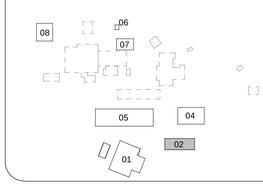


1. DRAIN LINE ROUTING IS DIAGRAMMATIC. MAINTAIN A 1% SLOPE ON ALL HORIZONTAL RUNS. COORDINATE EXACT DRAIN SIZE AND LOCATION WITH ODOR CONTROL EQUIPMENT MANUFACTURER. SEE DWG 0102-D101 FOR EQUIPMENT LAYOUT.
2. ALL ODOR CONTROL PROCESS DRAIN AND RECIRCULATION PIPING SHALL BE PVC SCH. 80.

A. 2" P-TRAP WITH CLEANOUT WITH MINIMUM 18" DEEP TRAP.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: A.LAW
DRAWN BY: A.ARAUJO
CHECKED BY: T.BURGWIN
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A ISSUED FOR BID	SRG	NW

LAST CONFORMED SET:

REVISIONS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

UNDERSLAB ENCASED PIPING PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

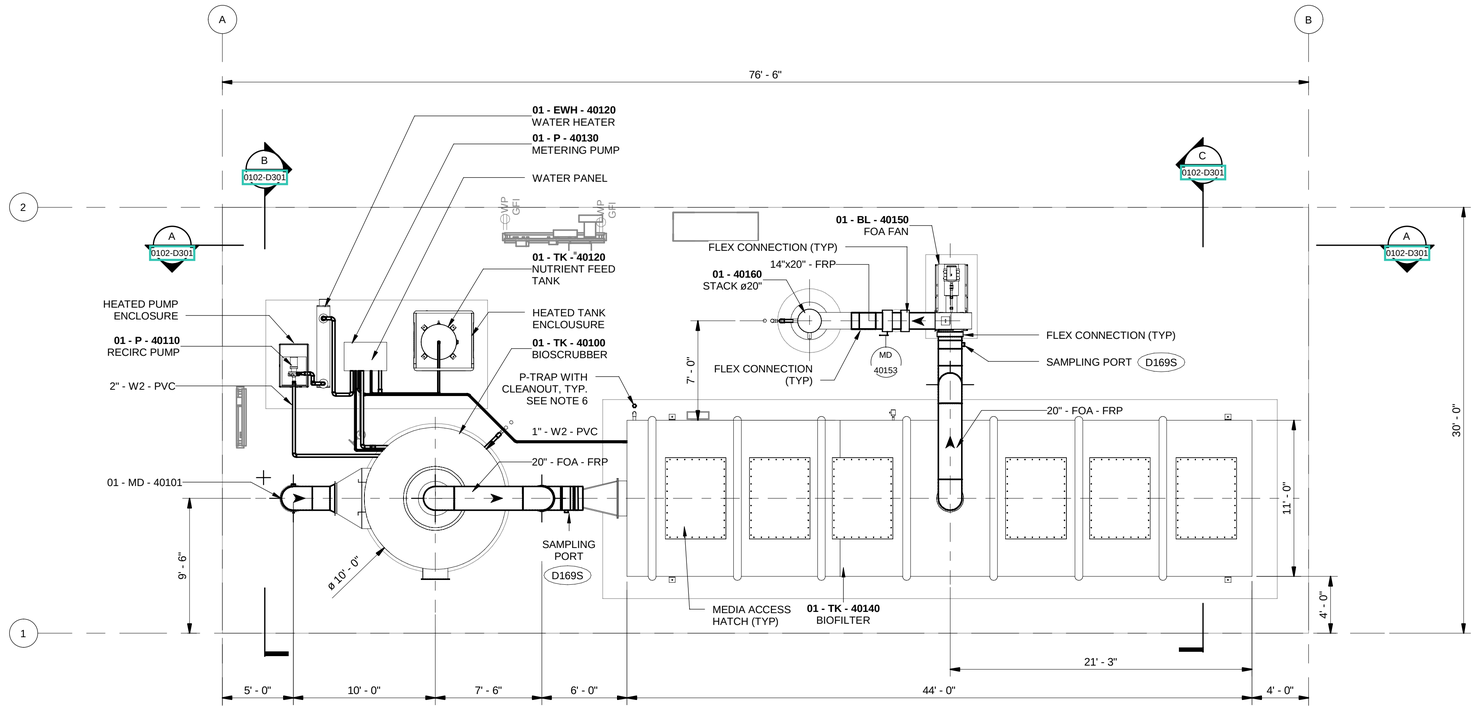
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DATE: 3/29/2023 2:35:50 PM

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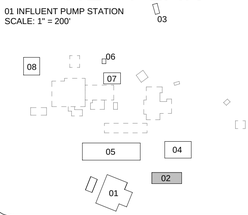
MAIN LEVEL PLAN

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

1. ODOR CONTROL SYSTEM IS DIAGRAMMATIC. THE ODOR CONTROL EQUIPMENT SIZING HERE INDICATES THE MAXIMUM ALLOWABLE DIMENSIONS. THE SYSTEM MUST INCLUDE THE ODOR TREATMENT PROCESSES AS SHOWN. CHANGES TO THE ODOR TREATMENT EQUIPMENT MUST BE APPROVED BY THE ENGINEER AND OWNER. TIE-POINTS, CONNECTIONS, AND ITEMS FROM OTHER TRADES ARE TO BE COORDINATED PRIOR TO COMMENCING WORK.
2. ALL EXPOSED PIPING IS TO BE HEAT TRACED AND INSULATED BY THE CONTRACTOR, INCLUDING PROCESS TUBING FOR INSTRUMENTATION, AND EXTERNAL PIPING SUPPLIED WITH THE BIOFILTER ODOR CONTROL SYSTEM.
3. ALL EQUIPMENT WITHIN 3 FT OF THE ODOR CONTROL TREATMENT EQUIPMENT AND FOA DUCTWORK IS TO BE RATED FOR A CLASS 1 DIVISION 2 CLASSIFIED ENVIRONMENT.
4. THE CONTRACTOR IS TO PROVIDE FIELD AND POWER WIRING, AND TO INSTALL ALL COMPONENTS SHIPPED LOOSE TO ENSURE A COMPLETE AND FULLY FUNCTIONAL BIOFILTER ODOR CONTROL SYSTEM.
5. ALL ODOR CONTROL PROCESS DRAIN AND RECIRCULATION PIPING SHALL BE PVC SCH 80.
6. FINAL LOCATIONS OF THE P-TRAP AND CLEANOUT TO BE COORDINATED WITH EQUIPMENT VENDOR.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	A.LAW
DRAWN BY:	A. ARAUJO
CHECKED BY:	T.BURGWIN
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A ISSUED FOR BID	SRG	NW

LAST CONFORMED SET:

REVISIONS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

MAIN LEVEL PROCESS PIPING PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

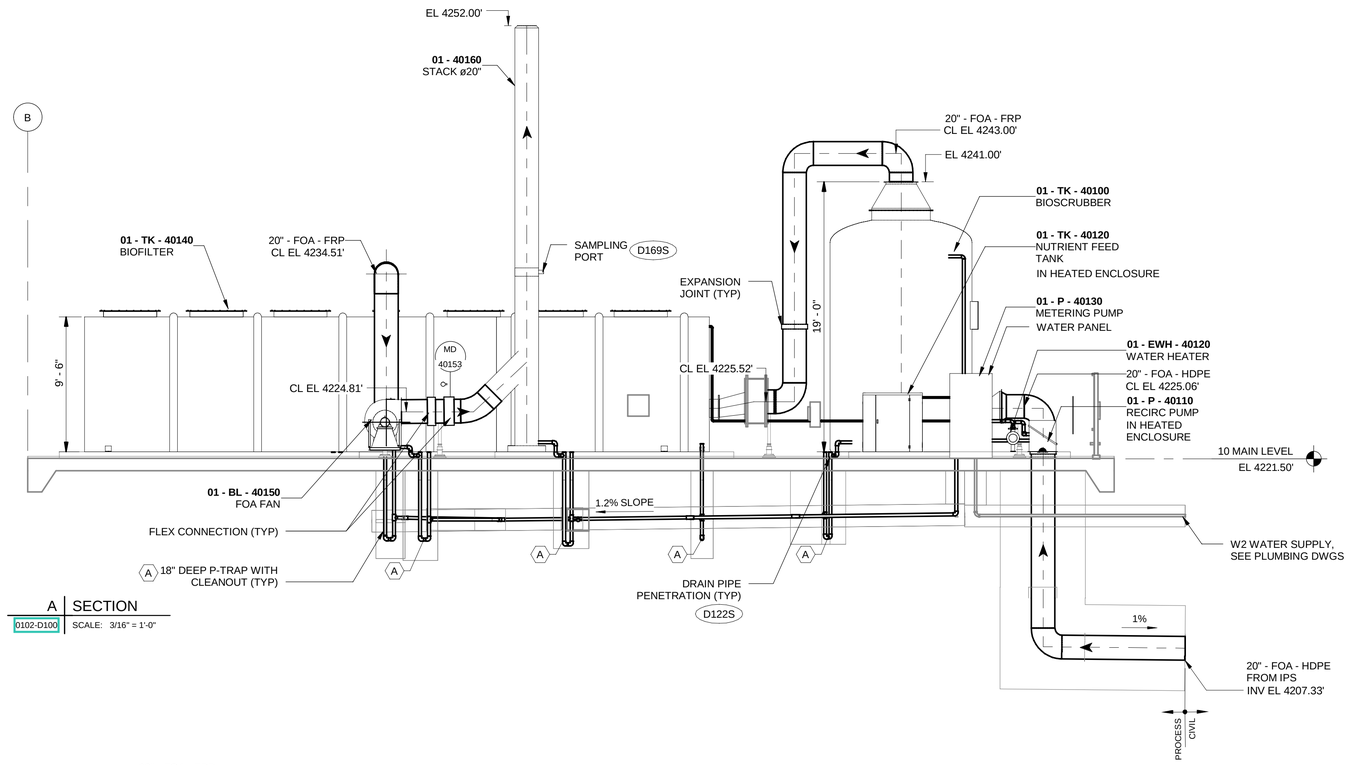
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0102-D101

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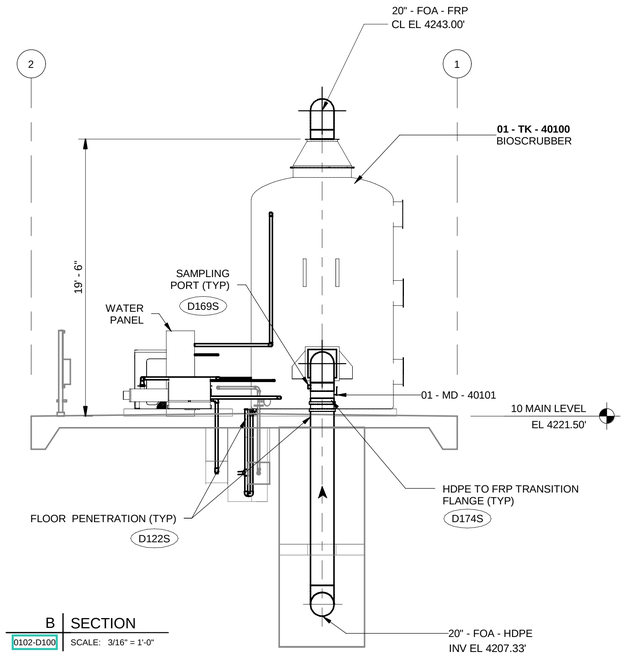
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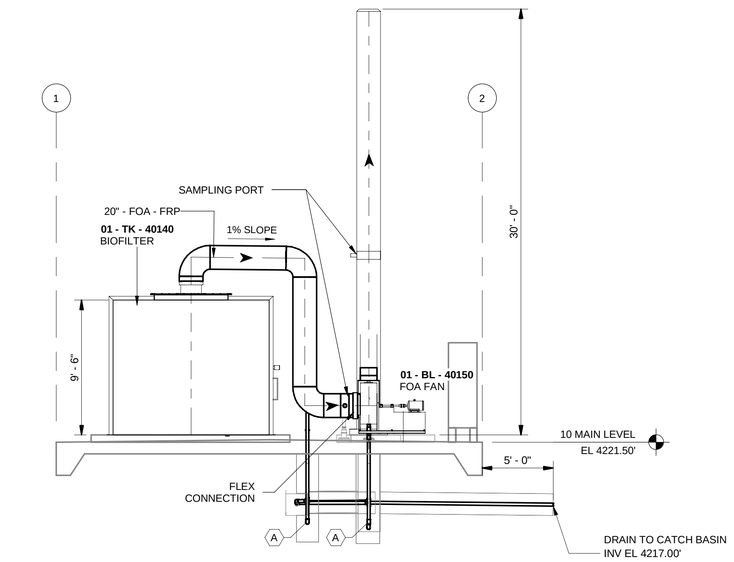
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A | SECTION
0102-D100 SCALE: 3/16" = 1'-0"



B | SECTION
0102-D100 SCALE: 3/16" = 1'-0"



C | SECTION
0102-D100 SCALE: 3/16" = 1'-0"

A. 2" P-TRAP WITH CLEANOUT WITH MINIMUM 18" DEEP TRAP.

KEY PLAN

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: A.LAW
DRAWN BY: A. ARAUJO
CHECKED BY: T.BURGWIN
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A ISSUED FOR BID	SRG	NW

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

PROCESS PIPING SECTIONS

SALT LAKE CITY

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

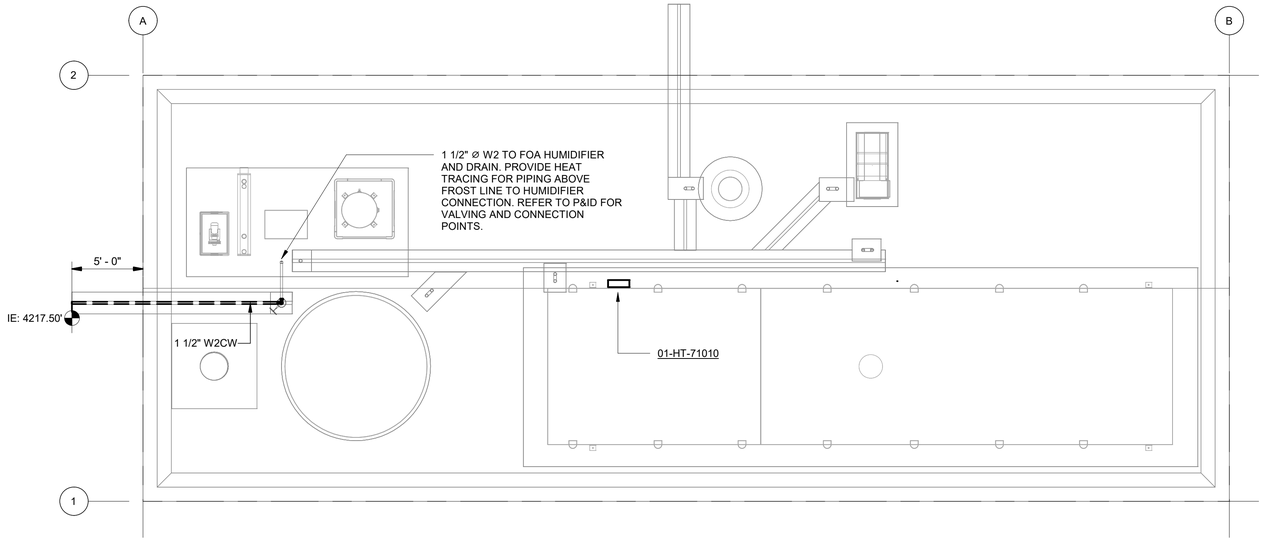
DRAWING No.
0102-D301

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DATE: 3/29/2023 2:35:32 PM

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MAIN LEVEL PLUMBING PLAN

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

1. REFER TO 0100-X600-SERIES DRAWING SHEETS FOR PLUMBING PROCESS FLOW DIAGRAMS AND P&IDs, WHICH INDICATE ADDITIONAL VALVES, PIPE SIZES, TIE-IN POINTS TO PROCESS PIPING, AND INFORMATION NOT SHOWN ON THESE PLANS.

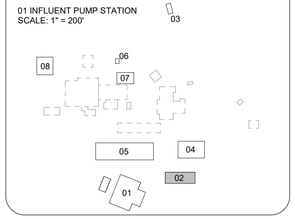
ELECTRIC HEAT TRACE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SYSTEM LOCATION	PIPE O.D.	INSULATION TYPE/THICKNESS	MAINTAIN TEMP	V/PH/HZ	WATTS/LF	NOTES
01-HT-71010	HEAT TRACE	RAYCHEM	QTVR	SEE PLANS	1-1/2"	FG / 3"	40°F	277/1/60	8	1-3

NOTES:
1. PROVIDED DIGITRACE 910 CONTROLLER.
2. MINIMUM AMBIENT TEMPERATURE IS -20°F; MAX AMBIENT TEMPERATURE IS 105°F.
3. SELF-REGULATING CABLE WITH LINE SENSING CONTROL.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	R. MEADOR
DRAWN BY:	C. IMPARATO
CHECKED BY:	G. DAVIES
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905396

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	CI	RM

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

MAIN LEVEL PLUMBING PLAN





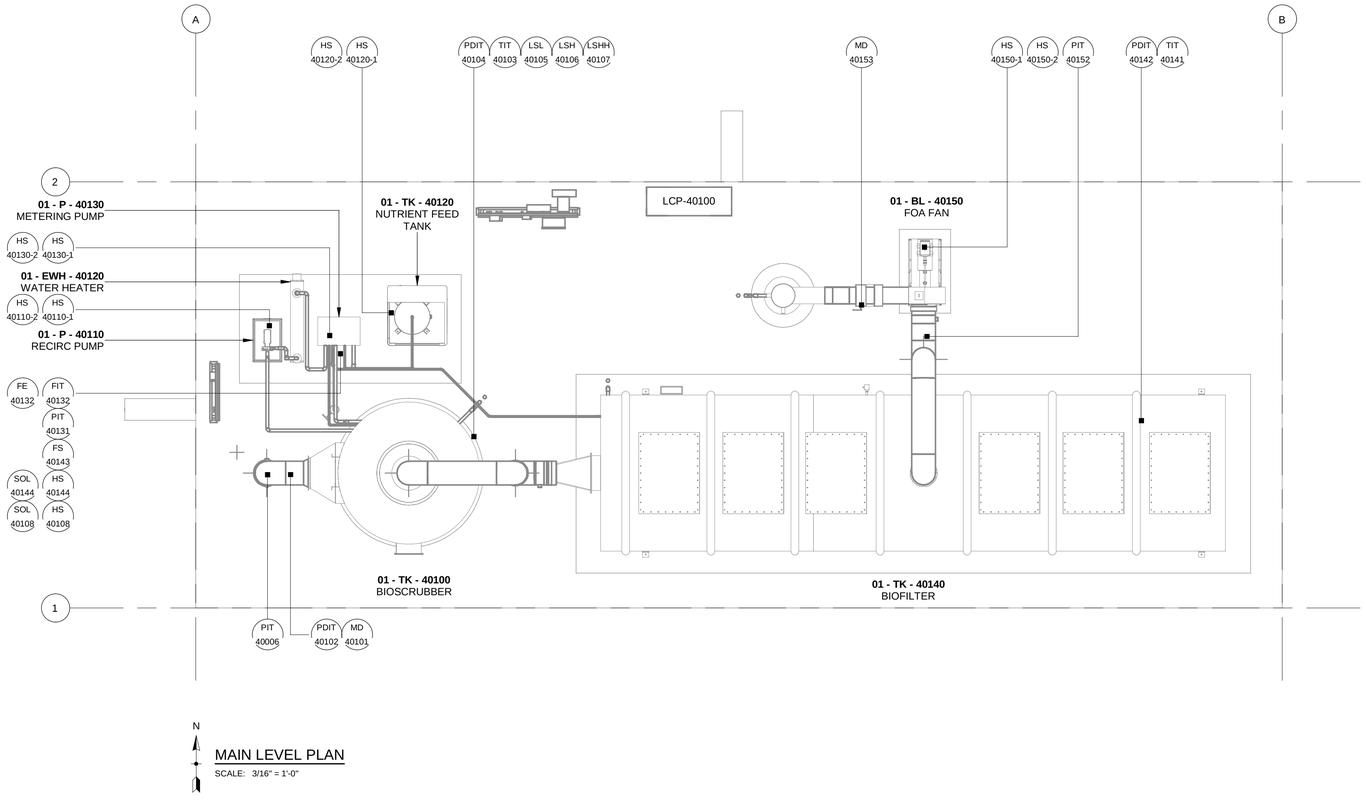
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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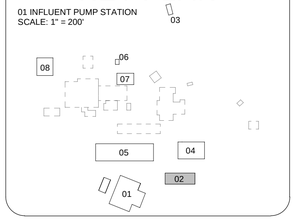
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MAIN LEVEL PLAN

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

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	C.ROBINSON
DRAWN BY:	P.ALCOS
CHECKED BY:	S.SYMONS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905386

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JEP	CR

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

MAIN LEVEL INSTRUMENT LOCATION PLAN

PROFESSIONAL ENGINEER
No. 12504923-2202
Grant Edward Davies
STATE OF UTAH
04-03-2023

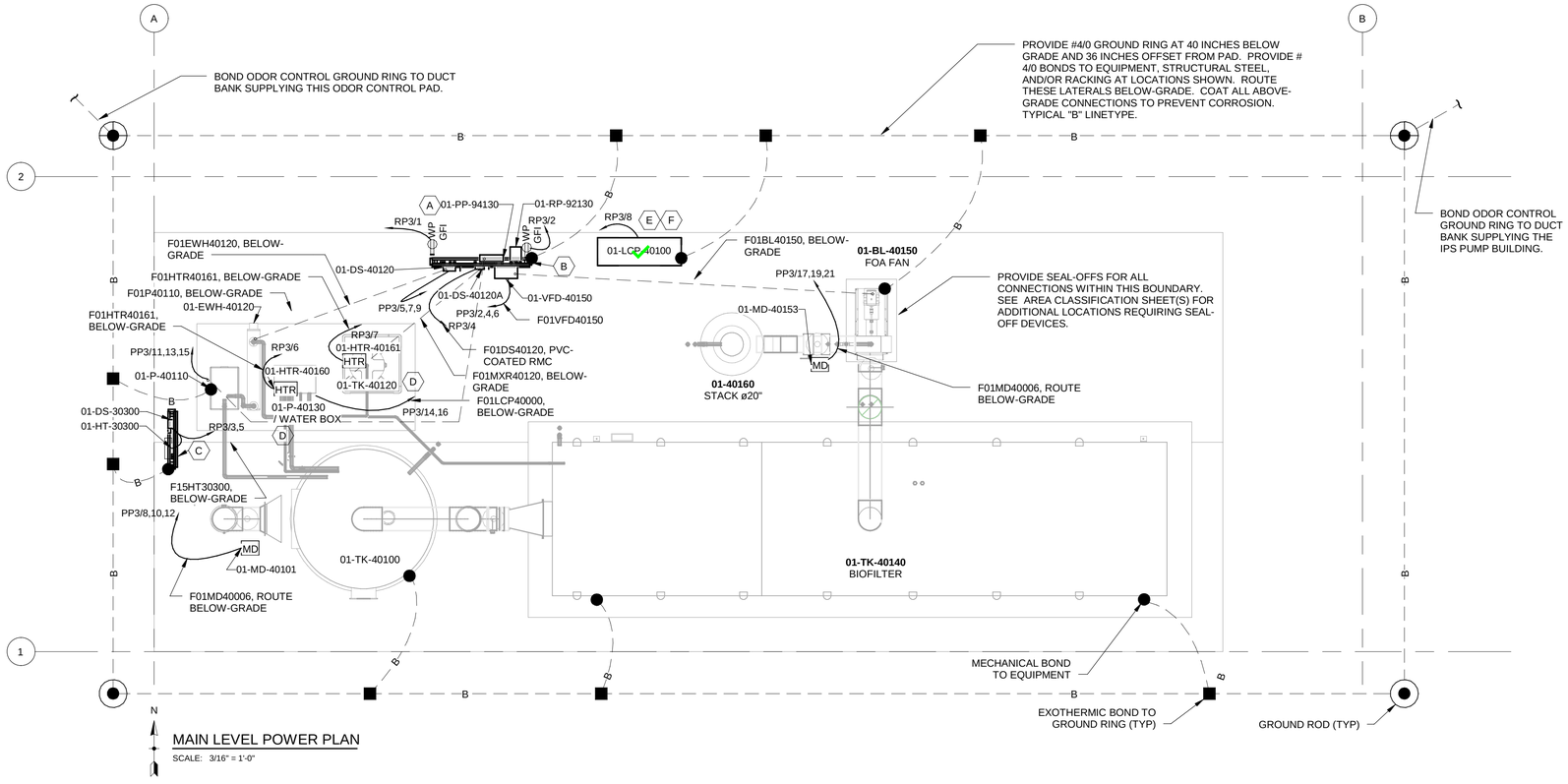
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 2023-03-29 10:54:53 AM

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MAIN LEVEL POWER PLAN

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

GENERAL NOTES

1. CIRCUIT ABBREVIATIONS ARE AS FOLLOWS:
   - PP3 = 01-PP-94130
   - RP3 = 01-RP-92130
2. COORDINATE FINAL LOCATIONS, MOUNTING HEIGHTS AND ARRANGEMENTS OF RECEPTACLES, DATA OUTLETS, SYSTEMS DEVICES, ETC. WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
3. FINAL FEEDER CONNECTIONS ARE NOT SHOWN ON PLAN. FINAL CONNECTIONS TO EQUIPMENT ARE SHOWN ON SINGLE LINE DIAGRAMS.
4. ALL STANDARD OUTLETS SHALL HAVE WHITE DEVICES/FACEPLATES, SCREWLESS, SNAP-ON TRIM (LEVITON DECORA PLUS OR EQUAL).
5. REFER TO SINGLE LINE DIAGRAM, PANEL SCHEDULES AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
6. DRAWING SHOWS DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, HARD WIRED JUNCTION BOXES, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES WITH OTHER SUBCONTRACTORS TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
7. FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG. VERIFY WITH EQUIPMENT MANUFACTURER.
8. A RECEPTACLE SHALL BE PROVIDED WITHIN 25' OF ALL HVAC EQUIPMENT.
9. EXTERIOR RECEPTACLES SHALL BE GFCI, WEATHER RESISTANT TYPE AND HAVE WEATHERPROOF COVERS WHICH ARE RATED NEMA 3R WITH THE PLUG AND CORD ATTACHED.
10. PROVIDE PROCESS AND INSTRUMENTATION CABLE AND CONDUIT REQUIREMENTS SHOWN ON 0100-I101. REFER TO INSTRUMENTATION DRAWINGS FOR DEVICE LOCATIONS.

KEYNOTES

A. NOT SHOWN - PROVIDE HOME-RUN TO MOTOR CONTROL CENTER WITHIN IPS ELECTRICAL BUILDING. ROUTE BELOW-GRADE, AND SEAL CONDUIT AT PANELBOARD. REFERENCE SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS. CAP SPARE 4" CONDUIT BELOW PANELBOARD.

B. PROVIDE 6-FT TALL STAINLESS STEEL RACK WITH (BACK-TO-BACK) 1-5/8"x3-1/2" U-CHANNEL STRUT POSTS, AND 1-5/8"x1-5/8" U-CHANNEL RACKING. PROVIDE POST BASES, EACH WITH 4 STAINLESS STEEL MASONRY ANCHORS. PROVIDE 1/4" (NOMINAL) GROUTING BETWEEN POST BASE AND CONCRETE PAD. PROVIDE AT LEAST 35% SPACE FOR FUTURE EQUIPMENT.

C. SAME AS NOTE B, EXCEPT PROVIDE AT LEAST 50% SPACE FOR FUTURE EQUIPMENT.

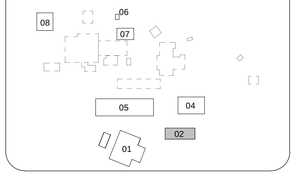
D. DETERMINE IF THIS EQUIPMENT IS SUPPLIED BY MORE THAN ONE SOURCE. IF SO, THEN PROVIDE LABEL IDENTIFYING ALL SOURCES OF SUPPLY AND THEIR LOCATION.

E. NOT SHOWN - PROVIDE RACKING, SIMILAR TO KEYNOTE B, AND/OR ANCHORAGE AS REQUIRED TO INSTALL ODOR CONTROL SYSTEM CONTROL PANEL. ADJUST CONDUITS FROM RACK TO CONTROL PANEL WHERE CONTROLLERS ARE LOCATED WITHIN CONTROL PANEL.

F. NOT SHOWN - PROVIDE INTECONNECTIONS FROM THIS PANEL TO ALL EQUIPMENT ENCLOSURES ON THE PAD. 3/4" CONDUIT MINIMUM. CABLING AS REQUIRED TO MEET SYSTEM INSTALLATION INSTRUCTIONS. PROVIDE DEDICATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	G. ROSS
DRAWN BY:	G. ROSS
CHECKED BY:	C. ADAMS
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524995386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY	
A	23-04-03	SW-1A		ISSUED FOR BID
				LAST CONFORMED SET:
			GR	CA

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

MAIN LEVEL POWER PLAN

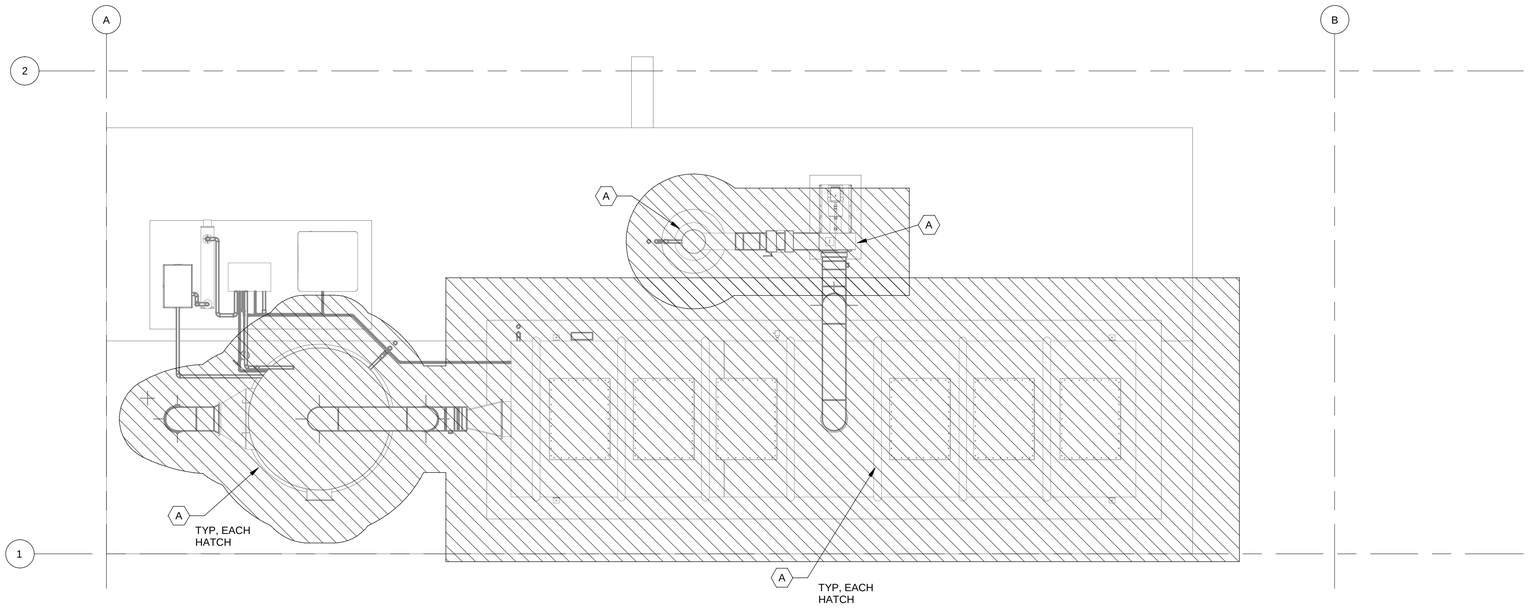
PROFESSIONAL ENGINEER
LIC No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0102-E101

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 10:10:21 AM
FILE: BIM 360://60572288-Salt Lake City 2019/524905350_0102-E001.rvt



N

MAIN LEVEL AREA
CLASSIFICATION PLAN

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

GENERAL NOTES

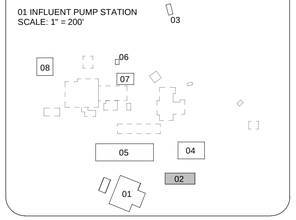
A. PERIMETER OF POTENTIAL FLAMMABLE SOURCES, PLUS 3'-0" ARE CLASSIFIED.

LEGEND

- UNCLASSIFIED
- CLASS 1, DIVISION 1, GROUPS C,D
- CLASS 1, DIVISION 2, GROUPS C,D
- CLASS 1, DIVISION 2 GROUP C/D AREA THAT IS UNCLASSIFIED BY VENTILATION AT MORE THAN 6 AIR CHANGES PER HOUR

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: D.BROERMAN
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

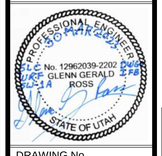
NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	GR	CA

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

MAIN LEVEL
AREA CLASSIFICATION PLAN





DRAWING No.
0102-E141

SHEET _____ OF -

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 10:10:21 AM

FILE: BIM 360://6057288-Salt Lake City 2019/524905350_0102-E001.rvt

Branch Panel: 01-PP-94130

LOCATION: ELECTRICAL RACK@IPS ODOR CTL.
SUPPLY FROM: 01-MCC-94110A
MOUNTING: SURFACE
ENCLOSURE: NEMA 4X

VOLTS: 480V DELTA
PHASES: 3
WIRES: 3

A.I.C. RATING: 25,000A SCCR
MAINS TYPE: REFERENCE SPECIFICATIONS
MAINS RATING: 200 A
MCB RATING: 150/3 MCB

NOTES:
GENERAL SCHEDULE NOTE - PROVIDE MANUFACTURERS LOCKING PROVISION FOR EACH CIRCUIT BREAKER.
GENERAL SCHEDULE NOTE - PROVIDE EXTERNAL SURGE PROTECTIVE DEVICE, AND BOND TO GROUND GRID PER MANUFACTURER INSTRUCTIONS.

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
PP3/1	01-RP-92130 MINI POWER CENTER	20 A	2	520 VA	7500 VA					3	40 A	01-VFD-40150 FOR FOA FAN	PP3/2
PP3/3	--	--	--			1950 VA	7500 VA			--	--	--	PP3/4
PP3/5	01-DS-40120, FDS FOR EWH-40120 WATER HTR	20 A	3					14100...	7500 VA	--	--	--	PP3/6
PP3/7	--	--	--	14100...	600 VA					3	15 A	01-MD-40101 OC INLET DAMPER MOTOR	PP3/8
PP3/9	--	--	--			14100...	600 VA			--	--	--	PP3/10
PP3/11	01-P-40110 CIRCULATION PUMP	20 A	3					0 VA	600 VA	--	--	--	PP3/12
PP3/13	--	--	--	0 VA	100 VA					2	20 A	01-P-40130 WATER BOX	PP3/14
PP3/15	--	--	--			0 VA	100 VA			--	--	--	PP3/16
PP3/17	01-MD-40153 OC OUTLET DAMPER MOTOR	15 A	3					600 VA	0 VA	1	20 A	SPARE	PP3/18
PP3/19	--	--	--	600 VA	0 VA					1	20 A	SPARE	PP3/20
PP3/21	--	--	--			600 VA	0 VA			1	20 A	SPARE	PP3/22
PP3/23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	PP3/24
PP3/25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	PP3/26
PP3/27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	PP3/28
PP3/29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	PP3/30
PP3/31	SPARE	20 A	1	0 VA	0 VA					--	--	SPACE	PP3/32
PP3/33	SPARE	20 A	1			0 VA	0 VA			--	--	SPACE	PP3/34
PP3/35	SPARE	20 A	1					0 VA	0 VA	--	--	SPACE	PP3/36
PP3/37	SPACE	--	--	0 VA	0 VA					3	30 A	SURGE PROTECTIVE DEVICE	PP3/38
PP3/39	SPACE	--	--			0 VA	0 VA			--	--	--	PP3/40
PP3/41	SPACE	--	--					0 VA	0 VA	--	--	--	PP3/42
			TOTAL LOAD:	23420 VA		24850 VA		22800 VA					
			TOTAL AMPS:	85 A		90 A		82 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	0 VA	0.00%	0 VA		
Receptacle	360 VA	100.00%	360 VA	**TOTAL CONNECTED LOAD:**	71070 VA
Motor	3860 VA	111.66%	4310 VA	**TOTAL ESTIMATED DEMAND:**	88183 VA
Power	66650 VA	125.00%	83313 VA	**TOTAL CONNECTED CURRENT:**	85 A
HVAC	200 VA	100.00%	200 VA	**TOTAL ESTIMATED DEMAND...**	106 A
Other	0 VA	0.00%	0 VA		

Branch Panel: 01-RP-92130

LOCATION: ELECTRICAL RACK@IPS ODOR CTL.
SUPPLY FROM: 01-PP-94130, VIA INTEGRAL XFMR
MOUNTING: SURFACE
ENCLOSURE: NEMA 4X

VOLTS: 120/240 SINGLE
PHASES: 1
WIRES: 3

A.I.C. RATING: 25kAIC PRI, 10kAIC SEC, 5kVA XFMR
MAINS TYPE: REFERENCE SPECIFICATIONS
MAINS RATING: 25 A
MCB RATING: 25A MCB (20A PRI MCB)

NOTES:
GENERAL SCHEDULE NOTE - PROVIDE MANUFACTURERS LOCKING PROVISION FOR EACH CIRCUIT BREAKER.
GENERAL SCHEDULE NOTE - PROVIDE EXTERNAL SURGE PROTECTIVE DEVICE, AND BOND TO GROUND GRID PER MANUFACTURER INSTRUCTIONS.

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
RP3/1	RECEPTACLE@RACK, WEST SIDE (NOTE 1)	20 A	1	180 VA	180 VA			1	20 A	RECEPTACLE@RACK, EAST SIDE (NOTE 1)	RP3/2
RP3/3	01-HT-30300 HEAT TRACE CTL (NOTE 2)	20 A	2			100 VA	1100 VA	1	20 A	01-MXR-40120 OC NUTRIENT MIXER (NOTE 2)	RP3/4
RP3/5	--	--	--	100 VA	60 VA			1	15 A	01-HTR-40160 WATER BOX HEATER (NOTE 2)	RP3/6
RP3/7	01-HTR-40161 NUTRIENT MIXER BOX HEATER (NOTE 2)	30 A	1			0 VA	750 VA	1	20 A	01-LCP-40100	RP3/8
RP3/9	SPACE	--	--	0 VA	0 VA			1	15 A	SPARE	RP3/10
RP3/11	SPACE	--	--			0 VA	0 VA	1	20 A	SPARE	RP3/12
			TOTAL LOAD:	520 VA		1950 VA					
			TOTAL AMPS:	4 A		16 A					

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	0 VA	0.00%	0 VA		
Receptacle	360 VA	100.00%	360 VA	**TOTAL CONNECTED LOAD:**	2470 VA
Motor	260 VA	119.23%	310 VA	**TOTAL ESTIMATED DEMAND:**	2983 VA
Power	1850 VA	125.00%	2313 VA	**TOTAL CONNECTED CURRENT:**	10 A
HVAC	0 VA	0.00%	0 VA	**TOTAL ESTIMATED DEMAND...**	12 A
Other	0 VA	0.00%	0 VA		

DATE: 3/30/2023 10:10:21 AM
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SCALE:

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: G. ROSS
DRAWN BY: G. ROSS
CHECKED BY: C. ADAMS
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A	ISSUED FOR BID

LAST CONFORMED SET: GR CA

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ODOR CONTROL

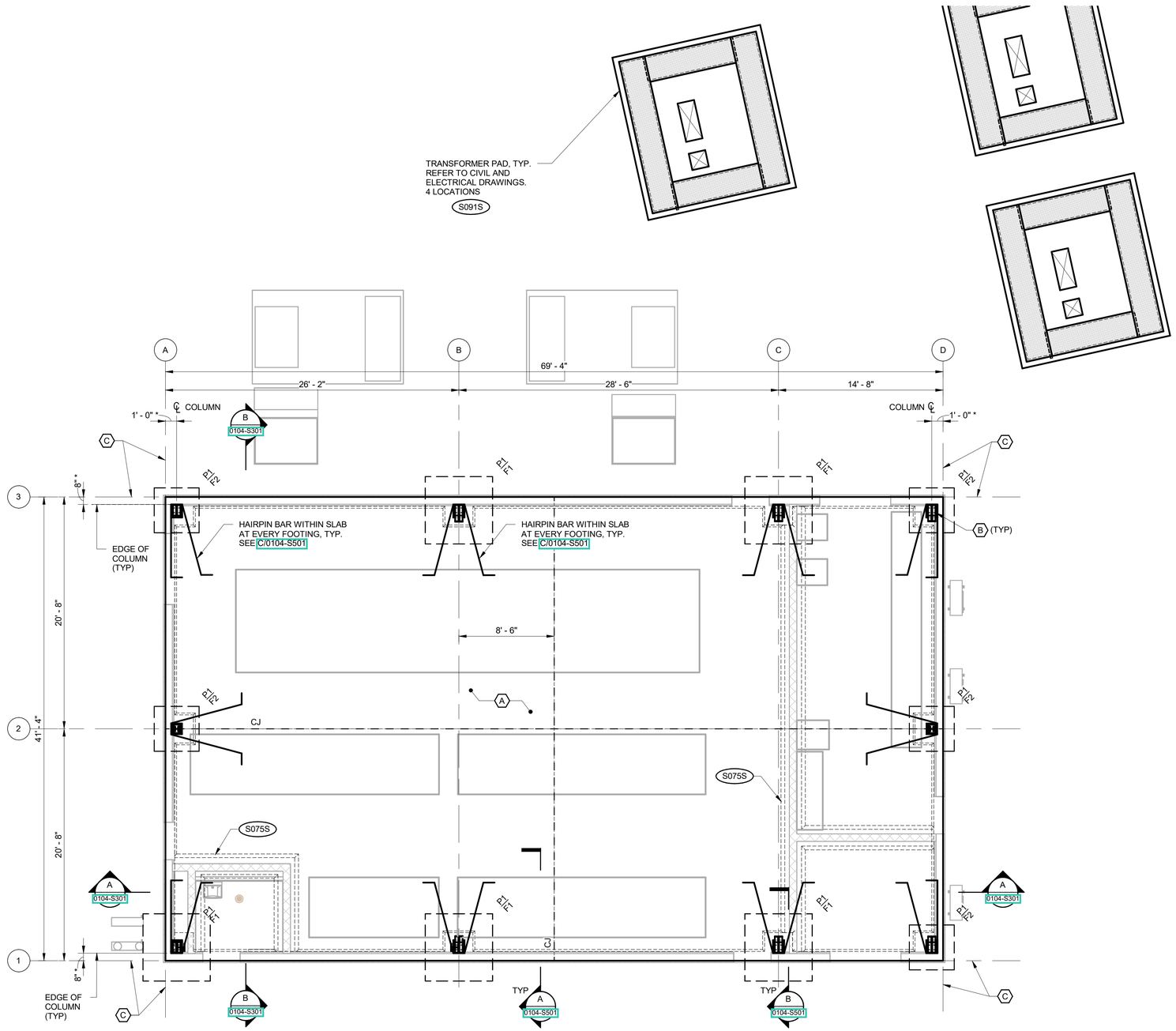
PANEL SCHEDULES

PROFESSIONAL ENGINEER
STATE OF UTAH
No. 12962039-2202
GLENN GERALD ROSS
STATE OF UTAH

DRAWING No.
0102-E601

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



N

FOUNDATION PLAN

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

FOOTING AND PIER SCHEDULE				
MARK	SIZE	TOP OF CONCRETE	REINFORCEMENT	REMARKS
F1	6' - 0" x 6' - 0" x 1' - 0"	4218.00	(7) #5 EW T&B	-
F2	4' - 0" x 4' - 0" x 1' - 0"	4218.00	(5) #5 EW T&B	-
P1	2' - 6" x 2' - 6" x 2' - 6"	-	(8) #5 VERT ⎍ #3@8" TIES	(3) #3 TIES IN TOP 12"

NOTE:

1. PLACE COLUMN ANCHOR RODS IN ACCORDANCE WITH FINAL ENGINEER ACCEPTED PEMB SHOP DRAWINGS. COLUMN ANCHOR RODS SHALL BE INSTALLED USING A TEMPLATE TO ENSURE PROPER POSITIONING AND RESTRAINT DURING CONCRETE PLACEMENT.

GENERAL NOTES

1. FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES, SEE DRAWING 0100-S001.
2. FOR SPECIAL INSPECTION AND TESTING REQUIREMENTS, SEE DRAWINGS 0100-S002 THROUGH 0100-S004.
3. FOR FACILITY SITE COORDINATES SEE CIVIL DRAWINGS.
4. FOR STRUCTURAL TYPICAL DETAILS SEE DRAWINGS 0100-S700 SERIES.
5. SEE 0104-S012 FOR EQUIPMENT PAD.
6. SEE ARCH FOR VAPOR BARRIER BENEATH SLAB ON GRADE.
7. ALL FOUNDATION CONCRETE SHALL BE CLASS A.
8. CONCRETE FOR SLAB-ON-GRADE SHALL BE CLASS A-2.
9. COORDINATE SIZE, LOCATION, AND ELEVATIONOF ALL PENETRATIONS WITH OTHER DISCIPLINE DRAWINGS. FOR TYPICAL CONCRETE WALL OR SLAB OPENING REINFORCEMENT, SEE TYPICAL DETAIL S001S.
10. FOR TYPICAL CONCRETE WALL CORNER AND INTERSECTION REINFORCEMENT, SEE TYPICAL DETAIL S011S.
11. PER STRUCTURAL GENERAL NOTES, PROVIDE JOINTING PLAN FOR REVIEW.
12. TRANSFORMERS PER TYPICAL DETAIL S091S. NORTHERN (2) SHALL BE TYPE 4. SOUTHERN (2) SHALL BE TYPE 6.
13. ASTERISK (*) DENOTES DIMENSIONS THAT SHALL BE VERIFIED AND COORDINATED WITH FINAL ENGINEER ACCEPTED PEMB SHOP DRAWINGS.
14. ALL PIPE BELOW BUILDING SHALL BE ENCASED PER TYPICAL DETAIL S041.

KEYNOTES

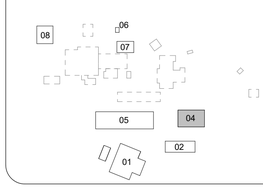
A. SLAB-ON-GRADE TO BE 0'-10" THICK W/ #5 @ 12" OC EW T & B. TOS EL 4221.5.

B. PEMB COLUMN, TYP.

C. EDGE OF CONCRETE, TYP.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As Indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: B.BOEN
DRAWN BY: R.PITTMAN
CHECKED BY: R.HAWTHORNE
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

FOUNDATION PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

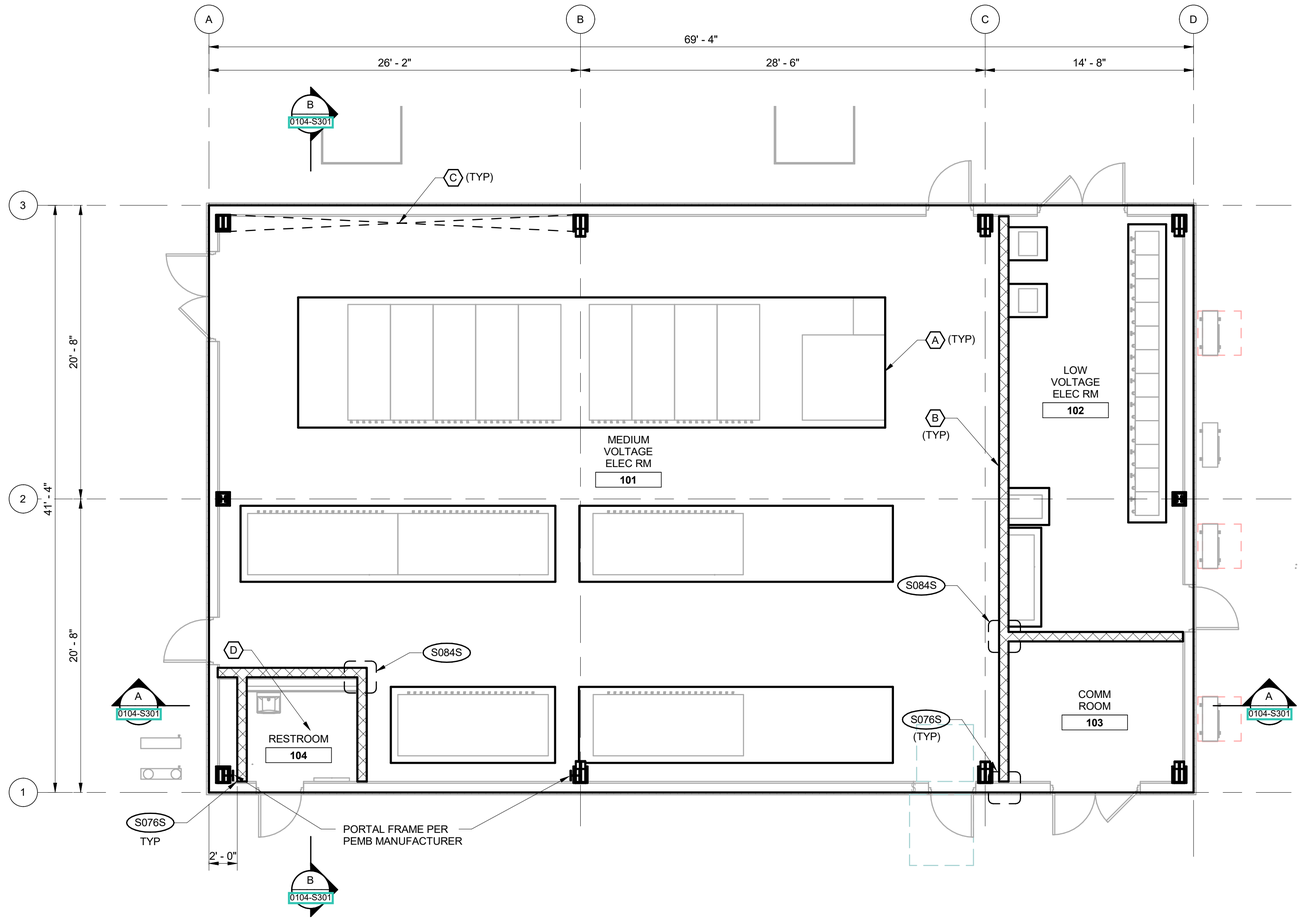
DRAWING No.
0104-S101

SHEET ____ OF ____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:37:24 AM

FILE: BIM 360://6057228-Salt Lake City 2019/5249050350_0104-S001.rvt



N

MAIN LEVEL FRAMING PLAN

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

KEYNOTES

A. EQUIPMENT PADS, TYPICAL. EQUIPMENT PAD LOCATIONS AND DIMENSIONS SHALL BE VERIFIED W/ ELECTRICAL DRAWINGS AND MANUFACTURER BY CONTRACTOR, REFER TO TYPICAL DETAILS S012S AND S013S.

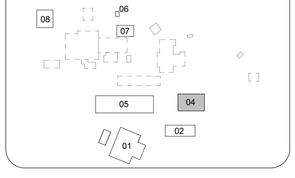
B. 8" CMU WALL, TYPICAL. SEE TYPICAL DETAIL S075 FOR WALL REINFORCEMENT.

C. PROPOSED LATERAL BRACING TO BE VERIFIED W/ PEMB SUPPLIER, TYPICAL.

D. RESTROOM, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	B.BOEN
DRAWN BY:	R.PITTMAN
CHECKED BY:	R.HAWTHORNE
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905271

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

MAIN LEVEL FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

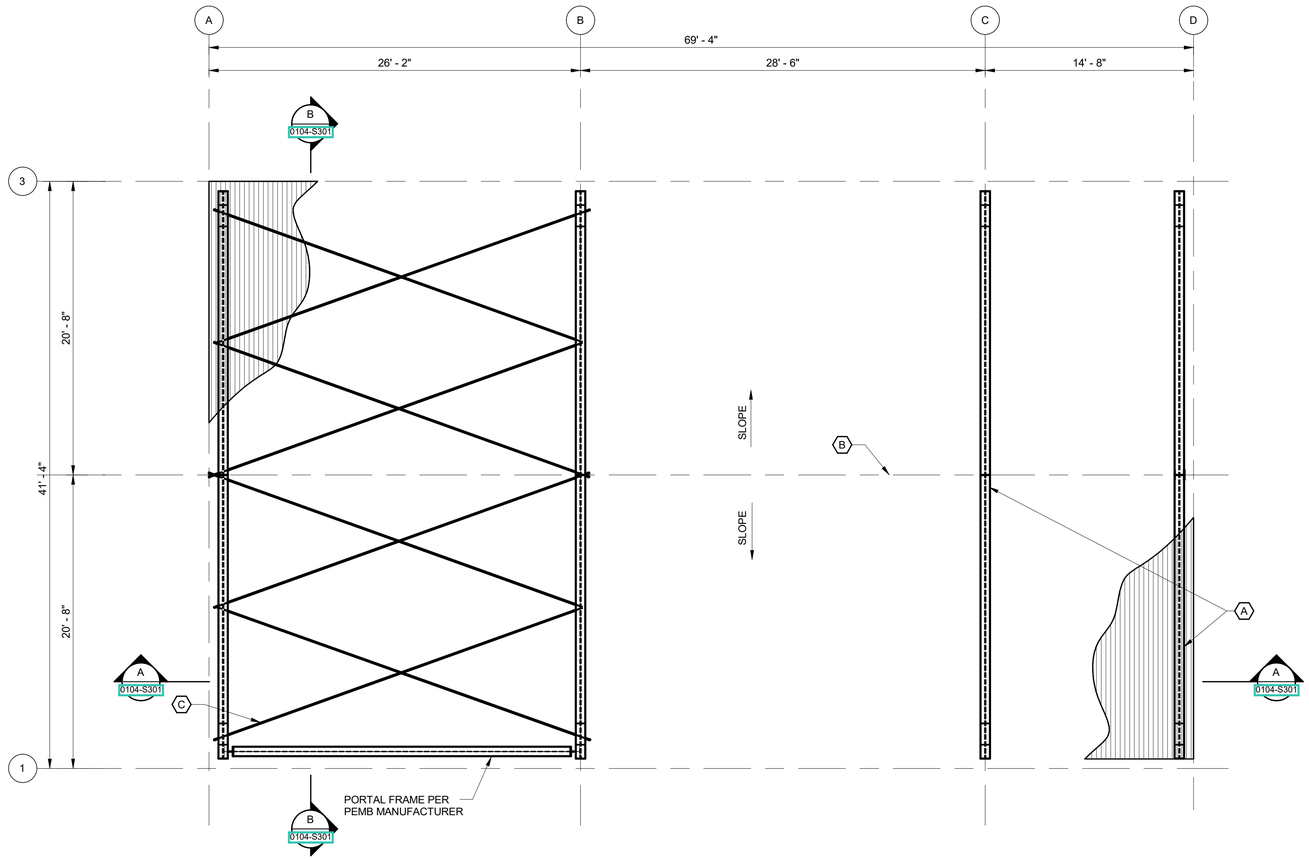
DRAWING No.
0104-S102

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:37:27 AM

FILE: BIM 360://60572288-Salt Lake City 2019\52490\S350_0104-S001.rvt



N

ROOF FRAMING PLAN

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

KEYNOTES

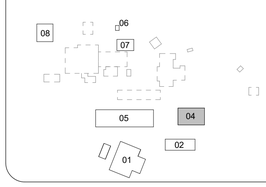
A. PRE-ENGINEERED METAL BUILDING.

B. RIDGE.

C. BRACING AS REQUIRED BY PEMB DESIGNER.

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY:	B.BOEN
DRAWN BY:	R.PITTMAN
CHECKED BY:	R.HAWTHORNE
APPROVED BY:	G.DAVIES
DATE:	-
EWO NO.:	-
ACCOUNT NO.:	524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

ROOF FRAMING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH

04-03-2023

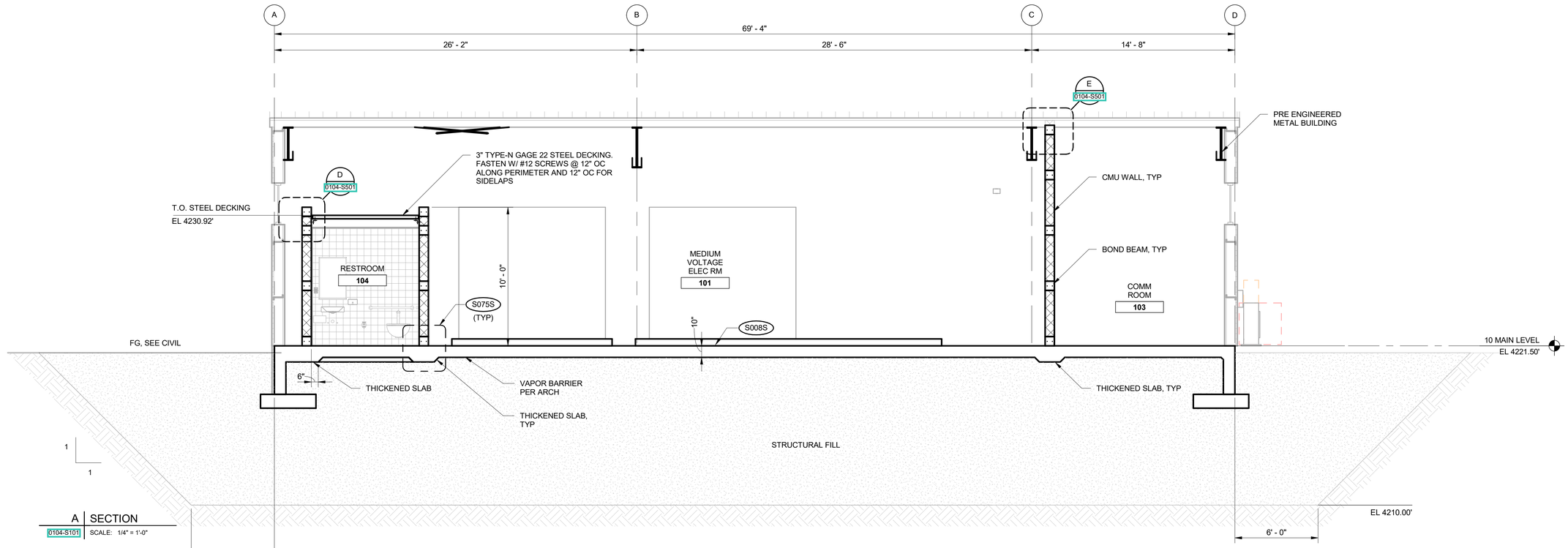
DRAWING No.
0104-S103

SHEET _____ OF _____

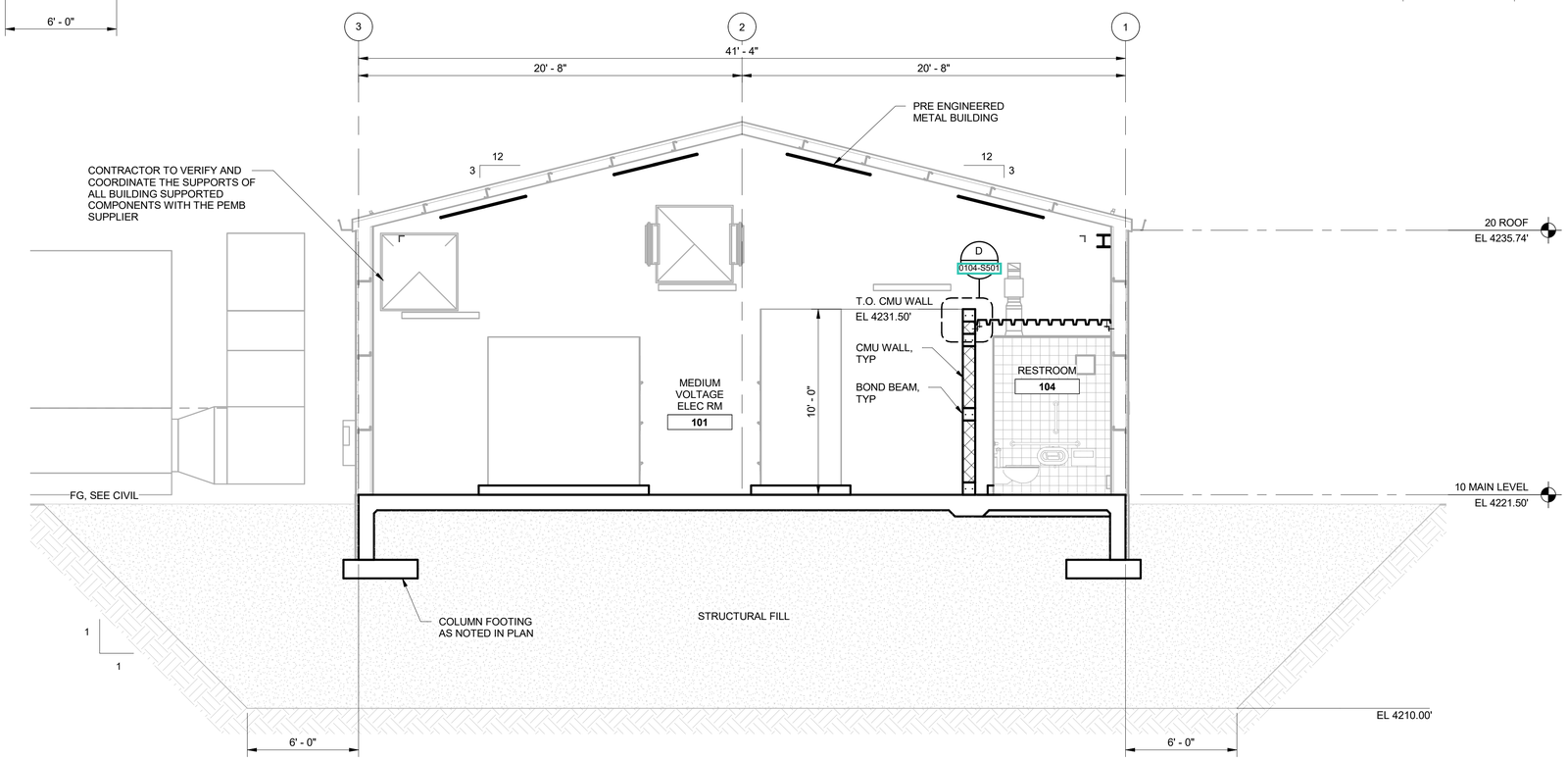
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:37:31 AM

FILE: BIM 360://6057228-Salt Lake City 2019/524905550_0104-S001.rvt



A | SECTION
0104-S101 SCALE: 1/4" = 1'-0"



B | SECTION
0104-S101 SCALE: 1/4" = 1'-0"

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

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.WASHAUTH
DRAWN BY: R.PITTMAN
CHECKED BY: R.HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - - -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03 SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

FRAMING SECTIONS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

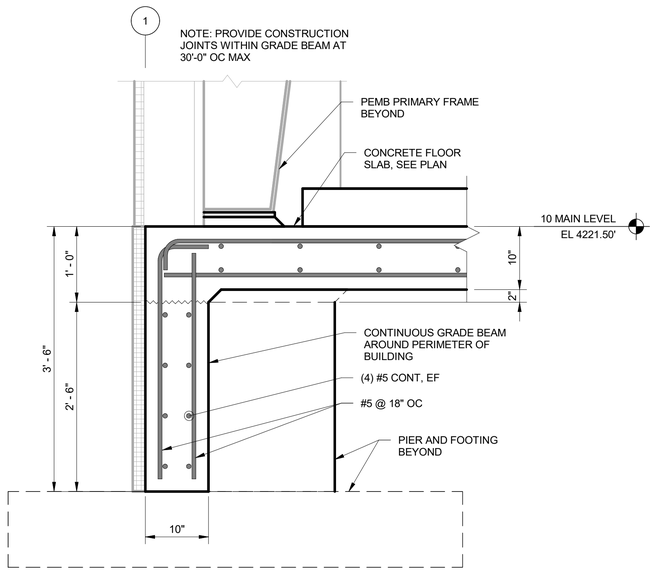
DRAWING No.
0104-S301

SHEET _____ OF _____

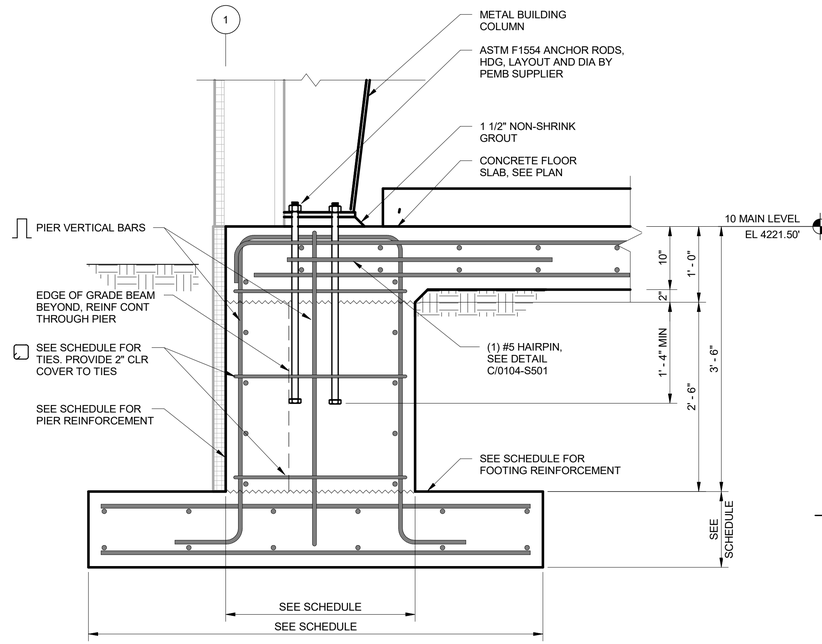
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:37:36 AM

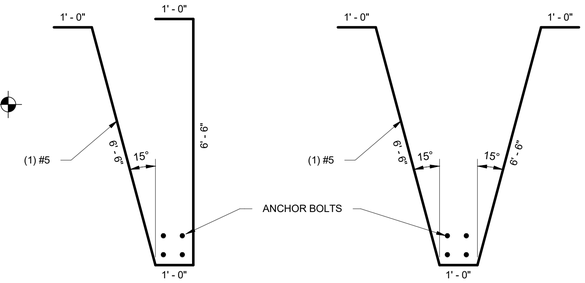
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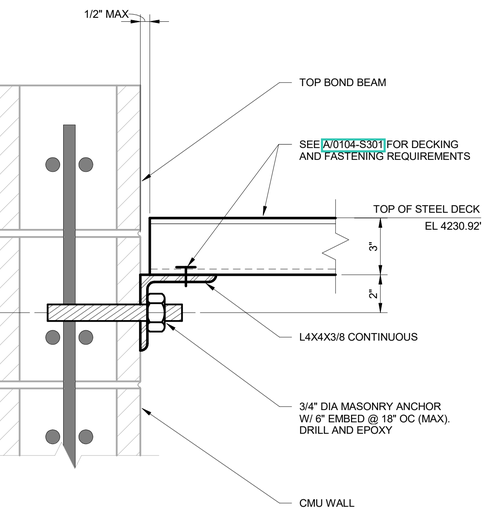
A | SECTION
0104-S101 | SCALE: 1" = 1'-0"



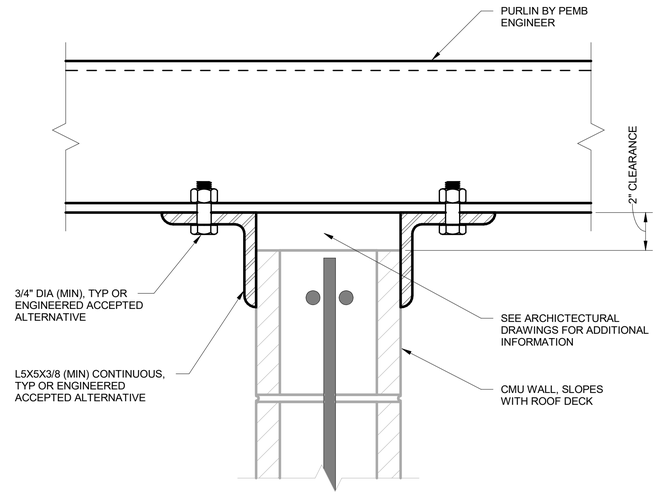
B | SECTION
0104-S101 | SCALE: 1" = 1'-0"



C | HAIRPIN DETAILS
SCALE: 1/2" = 1'-0"



D | SECTION
0104-S301 | SCALE: 3" = 1'-0"



NOTE: SEISMIC SHEAR TRANSFERRED TO THE UNDERSIDE OF PURLINS IS 1.5 KLF (ULT). PEMB ENGINEER TO VERIFY THE CONNECTION SHOWN IS ACCEPTABLE. CONTRACTOR TO VERIFY AND COORDINATE.

E | SECTION
0104-S301 | SCALE: 3" = 1'-0"

SCALE: As Indicated

PROJECT ADDRESS:
1965 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.WASHMUTH
DRAWN BY: R.PITTMAN
CHECKED BY: R.HAWTHORNE
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905086

REVISIONS

NO.	DATE	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

SECTION DETAILS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

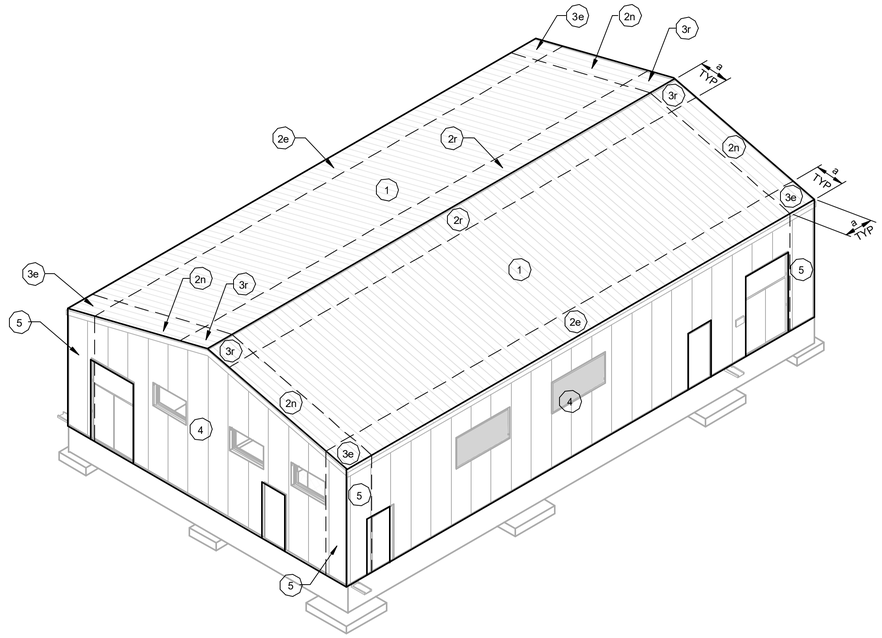
DRAWING No.
0104-S501

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/30/2023 9:37:40 AM

FILE: BIM 360://9057228-Salt Lake City 2019\524905350_0104-S001.rvt



IPS ELECTRICAL BUILDING WIND PRESSURES : COMPONENTS & CLADDING			
ULTIMATE DESIGN WIND PRESSURES (PSF)			
EFFECTIVE WIND AREA			
ZONE	**10 SF**	**20 SF**	**50 SF**
ROOF ZONE			
1	-53.8 / 22.9	-53.8 / 21.4	-35.8 / 19.4
2e	-53.8 / 22.9	-53.8 / 21.4	-35.8 / 19.4
2n	-74.9 / 22.9	-65.8 / 21.4	-53.8 / 19.4
2r	-74.9 / 22.9	-65.8 / 21.4	-53.8 / 19.4
3e	-74.9 / 22.9	-65.8 / 21.4	-53.8 / 19.4
3r	-87.5 / 22.9	-76.1 / 21.4	-61.0 / 19.4
WALL ZONE			
4	-34.8 / 32.7	-33.7 / 31.6	-32.2 / 30.1
5	-41.1 / 32.7	-38.9 / 31.6	-35.9 / 30.1

a = 4.1 ft

SCALE: As Indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: M.WASHMUTH
DRAWN BY: R.PITTMAN
CHECKED BY: R.HAWTHORNE
APPROVED BY: G.DAVIES
DATE: - -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	RP	SP

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

WIND LOADS

LICENSED PROFESSIONAL ENGINEER
No. 379242
ROBERT E. HAWTHORNE
STATE OF UTAH
04-03-2023

DRAWING No.
0104-S601

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

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DATE: 3/30/2023 9:37:50 AM

1.1 GENERAL – 01 04 - IPS ELECTRICAL BUILDING

1.2 OWNER SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

1.3 SITE ADDRESS 1365 W 2300 N, SALT LAKE CITY, UT 84116

1.4 CODE IN EFFECT
INTERNATIONAL BUILDING CODE, 2018 EDITION
INTERNATIONAL PLUMBING CODE, 2018 EDITION
INTERNATIONAL MECHANICAL CODE, 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE 2018 EDITION
INTERNATIONAL FIRE CODE, 2018 EDITION
INTERNATIONAL FUEL GAS CODE, 2018 EDITION ICC/ANSI A117.1-2009 AMERICAN NATIONAL STANDARDS INSTITUTE

1.5 AUTHORITY HAVING JURISDICTION
SALT LAKE CITY BUILDING DEPARTMENT

1.6 SEPARATE PERMIT REQUIRED FOR BUILDING MOUNTED SIGNAGE

2.1 SITE PROPERTY DESCRIPTION: MULTIPLE BUILDING PROPERTY

2.2 DISTANCE TO LOT LINES
NORTH EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY LOT LINES
SOUTH EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY
EAST EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY
WEST EXCEEDS 30' TO ASSUMED PROPERTY LINE AND ADJACENT FACILITY

2.3 PARKING DATA SEE CIVIL DRAWINGS FOR PARKING SUMMARY AND PARKING DATA

3.1 BUILDING DESCRIPTION: NON-SPRINKLERED UNPROTECTED PRE-ENGINEERED METAL BUILDING (PEMB)

3.2 BUILDING USE & OCCUPANCY CLASSIFICATION (IBC 302.1)
USE: FACTORY
GROUP: F-2

3.3 TYPE OF CONSTRUCTION
TYPE II-B NON-COMBUSTIBLE MATERIALS

3.4 BUILDING HEIGHT (IBC 504)

	FEET	STORIES
PROPOSED:	20'-1"	1
ALLOWED:	55'-0"	3

3.5 BUILDING AREA (IBC 506) GROSS SQ. FT.

PER TABLE506.2: ALLOWABLE AREA = 23,000.00 S.F.

10 MAIN LEVEL	2,699.83 SF
TOTAL AREA PROVIDED	2,699.83 SF

3.6 FIRE RESISTANCE RATINGS (IBC TABLE 601)

ELEMENT	MATERIAL	RATING
STRUCTURAL FRAME	NON-COMBUSTIBLE	0 - HR
BEARING WALLS		
- EXTERIOR	NON-COMBUSTIBLE	0 - HR
- INTERIOR	NON-COMBUSTIBLE	0 - HR
NON-BEARING WALLS / PARTITIONS		
- EXTERIOR	NON-COMBUSTIBLE	0 - HR
- INTERIOR	NON-COMBUSTIBLE	0 - HR
FLOOR CONSTRUCTION	NON-COMBUSTIBLE	0 - HR
ROOF CONSTRUCTION	NON-COMBUSTIBLE	0 - HR

3.7 EXTERIOR WALL FIRE RATINGS (IBC TABLE 601 & 602)
FIRE SEPARATION DISTANCE:
X (FEET)
X>=30
TYPE OF CONSTRUCTION:
II-B

3.8 OPENING PROTECTION (IBC TABLE 705.8)
UNLIMITED UNPROTECTED OPENINGS

4.1 BUILDING ENVELOPE: CLIMATE ZONE 5B

IECC REQUIRED

4.2 OPAQUE THERMAL

ROOFS	
METAL BUILDINGS	R-19 + R-11 LINER SYSTEM
WALLS	
METAL BUILDING	R-13 +R-13 CONT INSUL
BELOW-GRADE WALL (WALL >85% BELOW GRADE)	R-7.5 CONT INSUL TO EXTEND DOWN 10' FROM THE OUTSIDE FINISHED GRADE LEVEL OR TO THE LEVEL OF THE LOWEST FLOOR, WHICHEVER IS LESS
SLAB ON GRADE FLOORS	R-10 FOR 24" BELOW

4.3 GLAZING

VERTICAL FENESTRATION	
- GLAZING	U-0.29
WINDOW FRAMES	ALL-THERMALLY BROKEN
- FIXED	U-0.38
- OPERABLE	U-0.45
- ENTRANCE DOORS	U-0.77
- SKYLIGHT < 3.0 % OF ROOF	U-0.50
	SHGC-0.40
	VLT-0.55

4.3 AIR LEAKAGE INFILTRATION RATE 0.04 CFM/FT2

5.1 LIFE SAFETY - EGRESS
OCCUPANT LOADS (IBC 1004.5)

5.2

AREA GROUP	AREA	OCCUPANT LOAD FACTOR	OCCUPANTS	
F-2 FACTORY	2,700 SF	300	9	(9)

5.3 EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2)

PROPOSED: 66'-5"
ALLOWED: 300'-0"

5.4 MAXIMUM COMMON PATH OF TRAVEL (IBC TABLE 1006.2.1)

OCCUPANCY: F-2
PROPOSED: 10'-0"
MAX ALLOWED: 75' WITHOUT SPRINKLER SYSTEM

5.5 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (IBC TABLE 1006.3.2)

	OCCUPANT LOAD PER STORY	NUMBER OF EXITS
REQUIRED:	1 - 500	2
PROPOSED EXITS: PER STORY:	10 MAIN	4

5.6 EGRESS WIDTHS (IBC 1005.3)

	REQUIRED	PROVIDED
OTHER EGRESS COMPONENTS	9 X 0.2" = 1.8" 0.2/OCCUPANT	33" X 4 = 132" 36" DOOR, 33" CLEAR
STAIR WIDTH (IBC 1009.1 & 1011.2) 0.3/OCCUPANT	9 X 0.3" = 2.7" NOT < 36"	NONE
CORRIDOR WIDTH (IBC TABLE 1020.2)	NOT < 36"	NONE

5.7 EGRESS CEILING HEIGHTS (IBC 1003.2)

	REQUIRED	PROVIDED
EXIT PASSAGES	7'-6" CLEAR	> 7'-6" CLEAR
PROTRUDING OBJECTS	NOT < 6'-8" 50% OF PASSAGEWAY	> 6'-8" 50% OF PASSAGEWAY

5.8 DOOR OPERATIONS (IBC 1010.1.9) EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT AND MUST BE UNLOCKED IN THE DIRECTION OF EGRESS TRAVEL AT ALL TIMES.

6.1 FIRE-RESISTANT CONSTRUCTION

6.2	FIRE WALLS (IBC 706)	NOT REQUIRED
6.3	FIRE BARRIERS (IBC 707)	1 HR
6.4	SHAFT ENCLOSURES (IBC 713)	NOT REQUIRED
6.5	FIRE PARTITIONS (IBC 708)	NOT REQUIRED
6.6	SMOKE BARRIERS (IBC 709)	NOT REQUIRED
6.7	HORIZONTAL ASSEMBLIES (IBC 711)	NOT REQUIRED
6.8	PENETRATIONS (IBC 714)	AS REQUIRED AT RATED CONSTRUCTION

7.1 FIRE PROTECTION SYSTEMS

7.2 AUTOMATIC SPRINKLER SYSTEM (IBC 903) NOT REQUIRED

7.3 STANDPIPE SYSTEMS
(IBC 905) NOT REQUIRED

7.4 PORTABLE FIRE EXTINGUISHERS
(IBC 906) AT EXIT LOCATIONS - MAX TRAVEL DISTANCE TO EXTINGUISHER = 75'

7.5 FIRE ALARM DETECTION SYSTEMS
(IBC 907) SEE FIRE PROTECTION

8.0 ACCESSIBILITY
BUILDING ACCESSIBLE ROUTE, ENTRANCES, FACILITIES, AND SIGNAGE TO CONFORM TO REQUIREMENTS OF IBC CHAPTER 11.

9.0 ENERGY EFFICIENCY
SEE INTERNATIONAL ENERGY CONSERVATION CODE

10.0 STRUCTURAL DESIGN
SEE STRUCTURAL CODE SHEET

11.0 ELECTRICAL
SEE ELECTRICAL CODE SHEET

12.0 MECHANICAL SYSTEMS
SEE MECHANICAL CODE SHEET

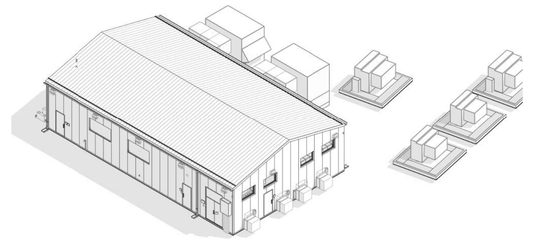
13.0 PLUMBING SYSTEMS
SEE PLUMBING CODE SHEET

OCCUPANCY	WATER CLOSET MALE / FEMALE	LAVATORIES MALE / FEMALE	DRINKING FOUNTAINS	SERVICE SINK
F-2 (9 OCCUPANTS)	1:100 9/100 = 0.09	1:100 9/100 = 0.09	1:400 9/400 = 0.0225	1 0
REQUIRED:	0.09 (1 WC)	0.09 (1 LAV)	0.0225 (1 DF)	1
PROVIDED:	*1 WC	*1 LAV	**0 DF	***1

*SEPARATE FACILITIES ARE NOT REQUIRED PER SEX (IPC 403.2)
**DRINKING FOUNTAIN NOT REQUIRED (IPC 410.2 - SMALL OCCUPANCIES)
***SANITARY FLOOR SINK (ASME A112.6.7)

OCCUPANCY SPREADSHEET

ROOM NAME	NUMBER	AREA	GROUP	LOAD FACTOR	OCCUPANTS
10 MAIN LEVEL					
MEDIUM VOLTAGE ELEC RM	101	2,119.40 SF	F-2 FACTORY	300 SF GROSS	7.06
LOW VOLTAGE ELEC RM	102	373.47 SF	F-2 FACTORY	300 SF GROSS	1.24
COMM ROOM	103	128.70 SF	F-2 FACTORY	300 SF GROSS	0.43
RESTROOM	104	78.26 SF	F-2 FACTORY	300 SF GROSS	0.26
		2,699.83 SF			9.00
TOTALS		2,699.83 SF			9.00



SCALE: 12" = 1'-0"

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

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A	23-04-03	SW-1A: ISSUED FOR BID	JW DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

BUILDING CODE ANALYSIS

STATE OF UTAH
DAVID E BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

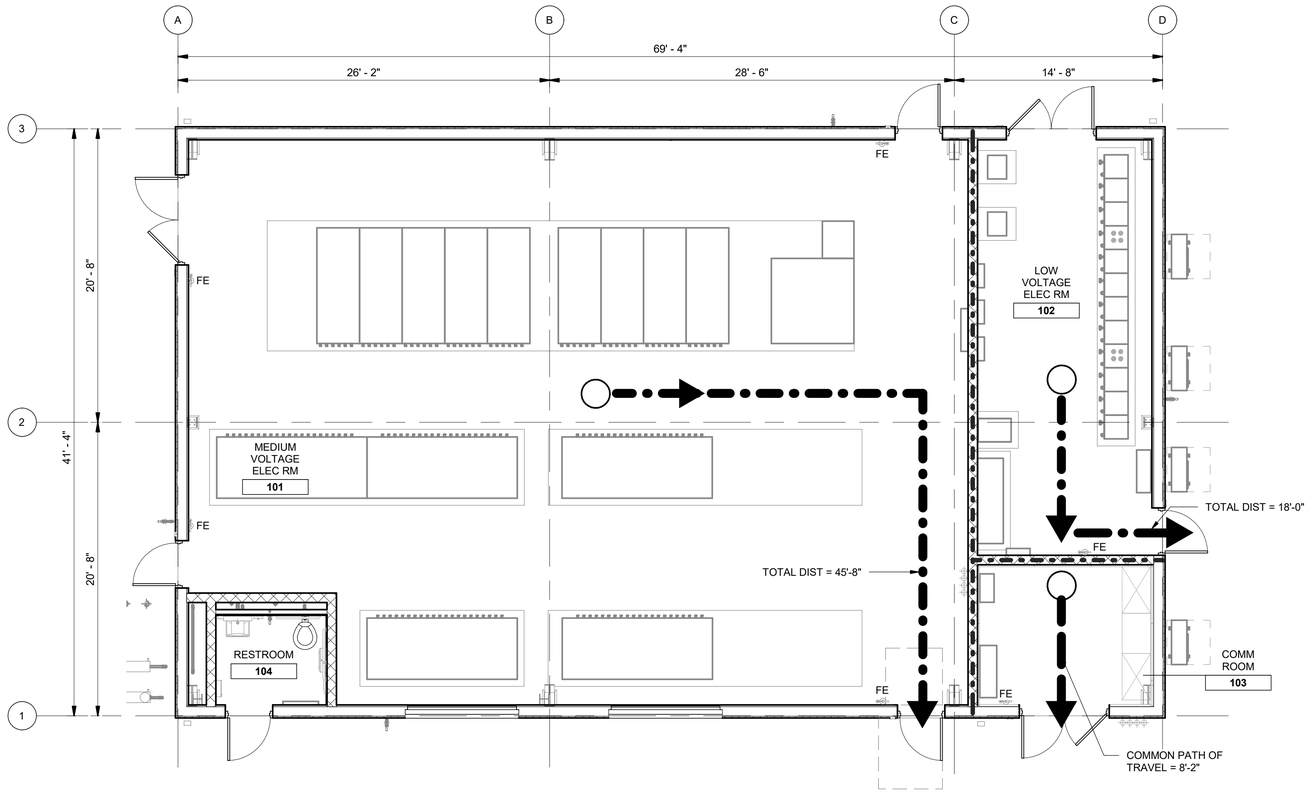
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SHEET _____ OF _____

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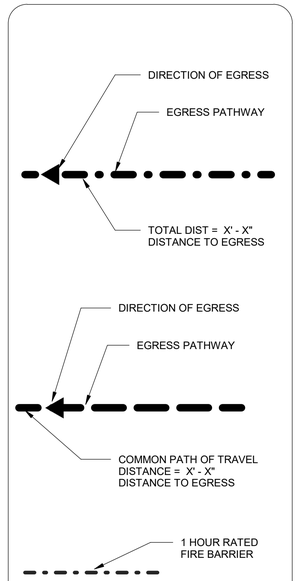
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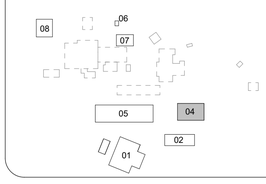
MAIN LEVEL EGRESS PLAN

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



KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
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LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

BUILDING EGRESS PLAN

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

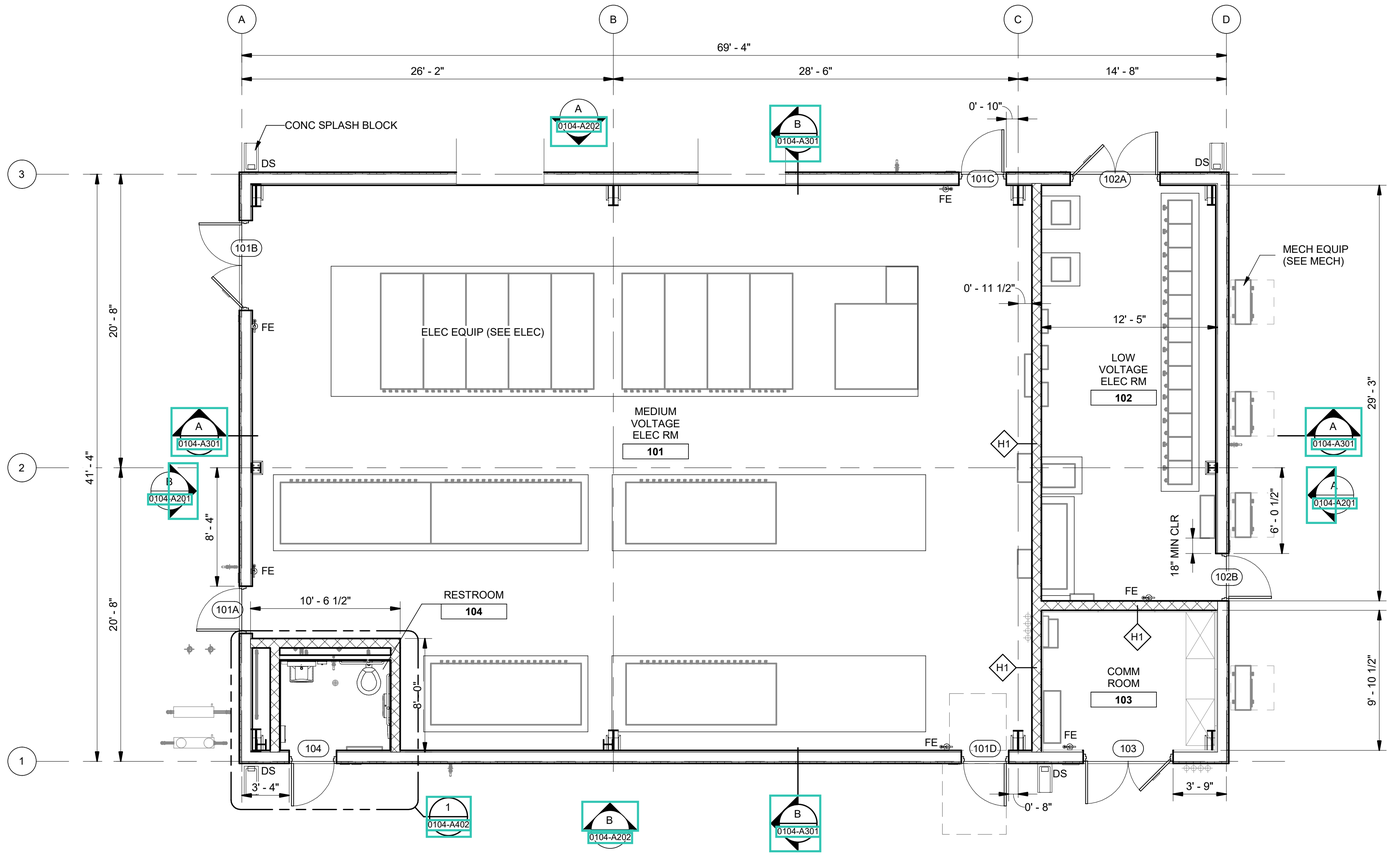
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SHEET _____ OF _____

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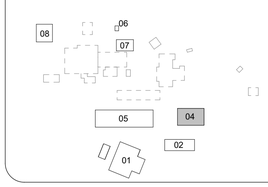
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MAIN LEVEL PLAN

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

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

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LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

MAIN LEVEL PLAN

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

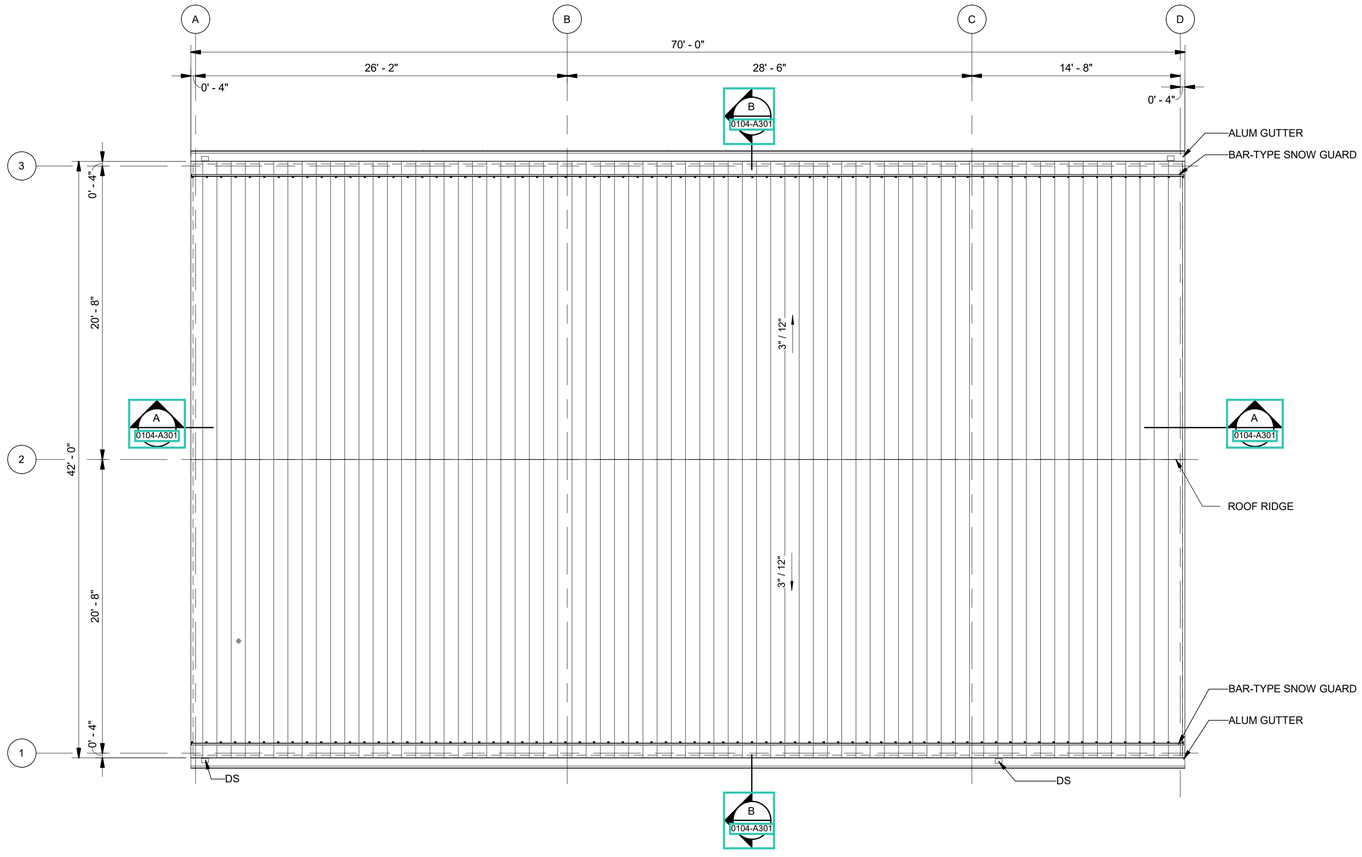
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0104-A101

SHEET _____ OF _____

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ROOF PLAN

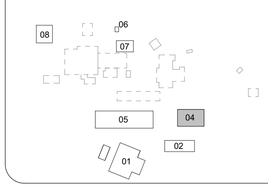
SCALE: 3/16" = 1'-0"

3" / 12" ROOF SLOPE

STANDING SEAM METAL ROOF SYSTEM

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

ROOF PLAN

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

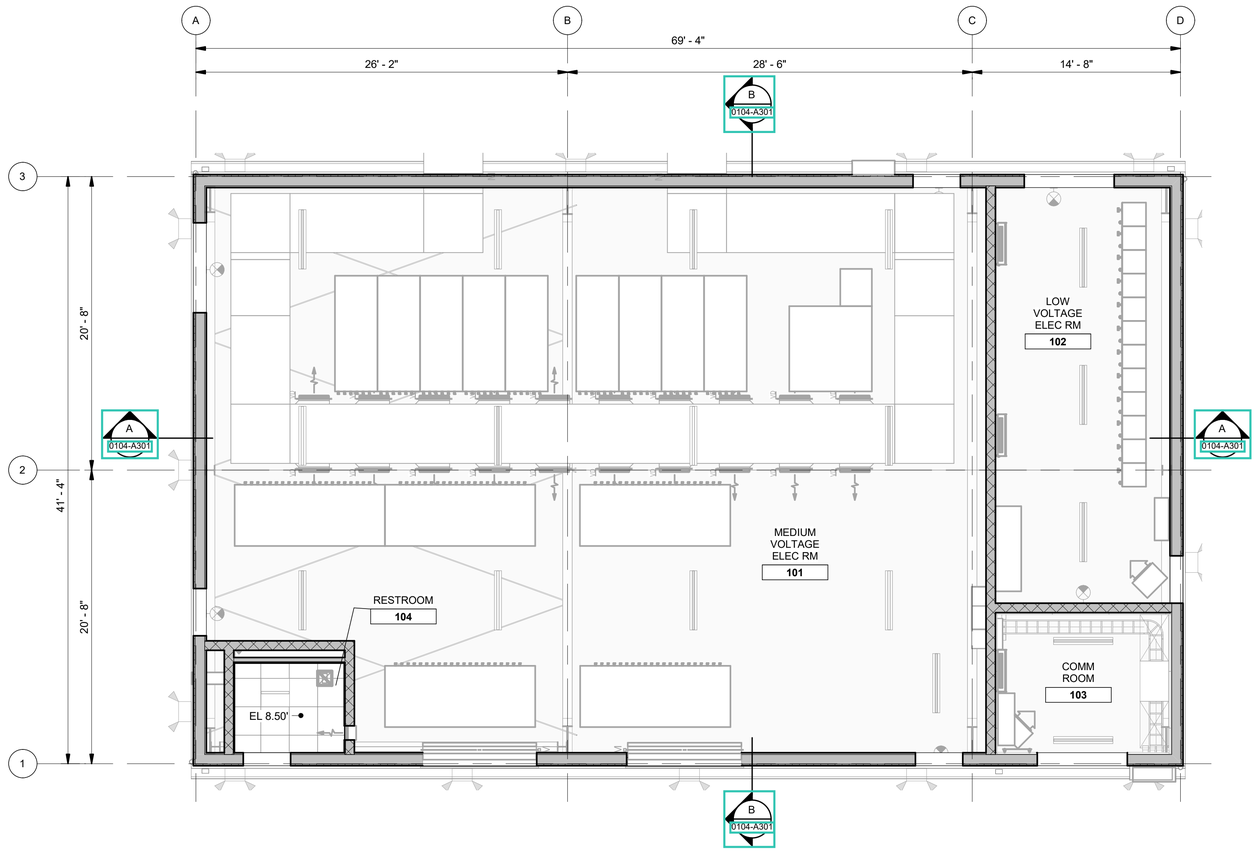
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SHEET _____ OF _____

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BAR IS ONE INCH ON ORIGINAL DRAWING

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MAIN LEVEL REFLECTED CEILING PLAN

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

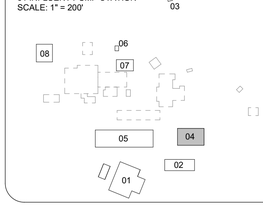
1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE.
2. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES.
3. SEE PARTITION TYPES FOR FOR FIRE RATED PARTITION LOCATIONS.

EXPOSED TO STRUCTURE

ACT

KEY PLAN

01 INFLUENT PUMP STATION
SCALE: 1" = 200'



SCALE: As indicated

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

MAIN LEVEL REFLECTED CEILING PLAN

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

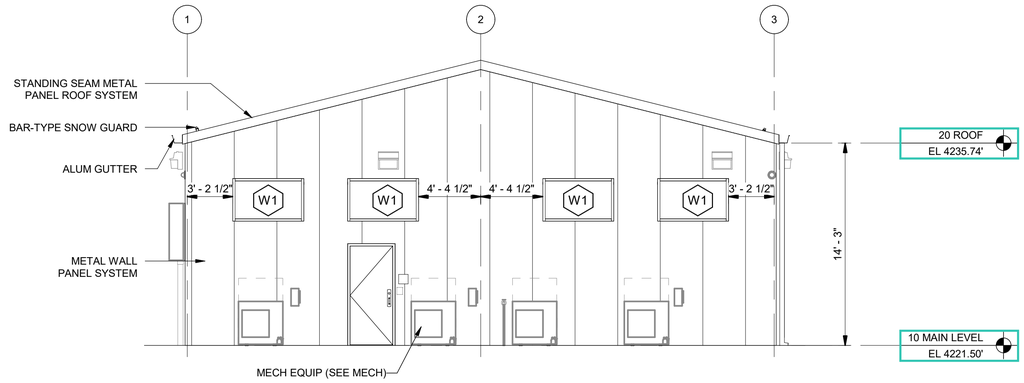
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SHEET _____ OF _____

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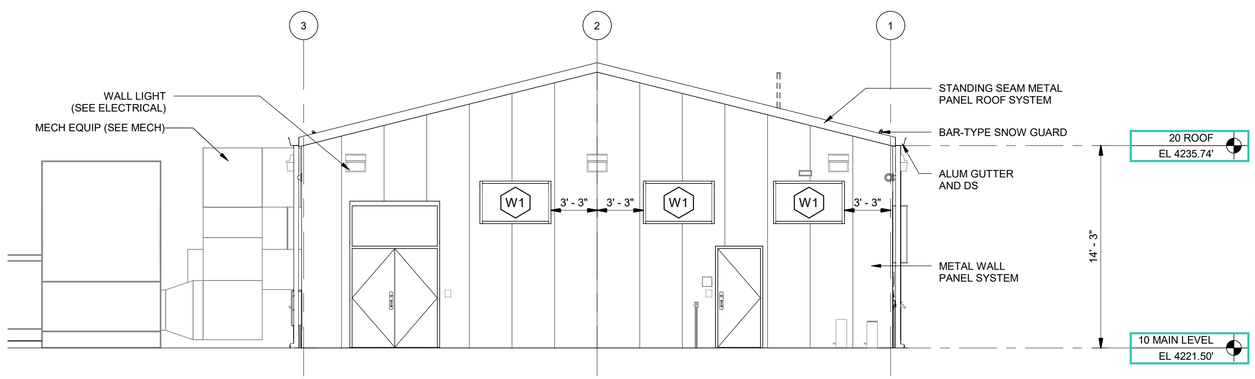
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A | EAST EXTERIOR ELEVATION

0104-A101 | SCALE: 3/16" = 1'-0"



B | WEST EXTERIOR ELEVATION

0104-A101 | SCALE: 3/16" = 1'-0"

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT.
2. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT.
3. PEMB MFG TO COORDINATE ALL BUILDING PENETRATIONS WITH OTHER DISCIPLINES.

STANDING SEAM ROOF PANEL

PEMB WALL PANEL

SCALE: As indicated

PROJECT ADDRESS: 1365 W 2300 N, SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
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WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

EAST AND WEST EXTERIOR ELEVATIONS

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

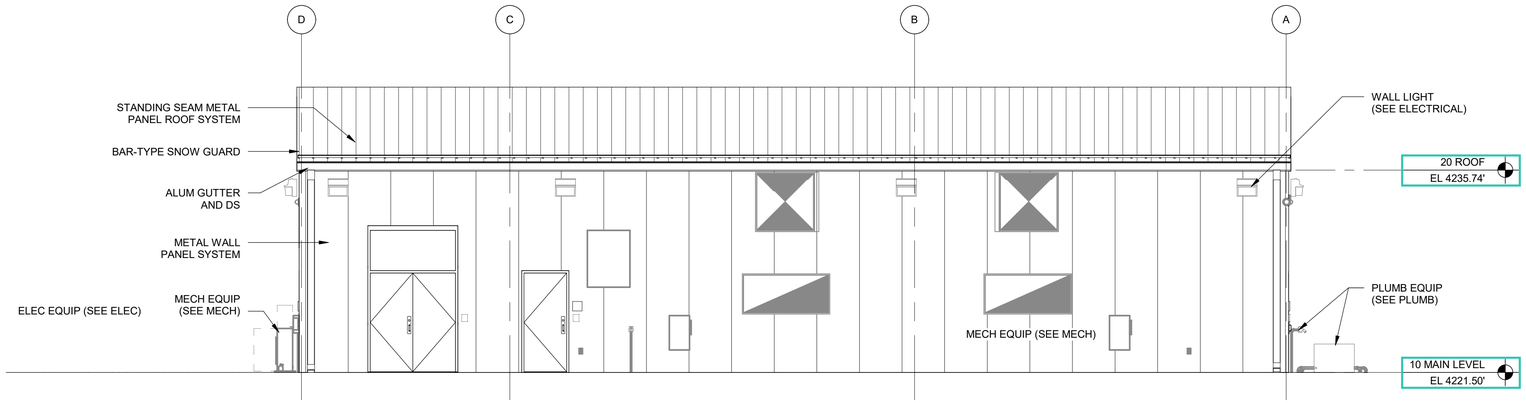
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SHEET _____ OF _____

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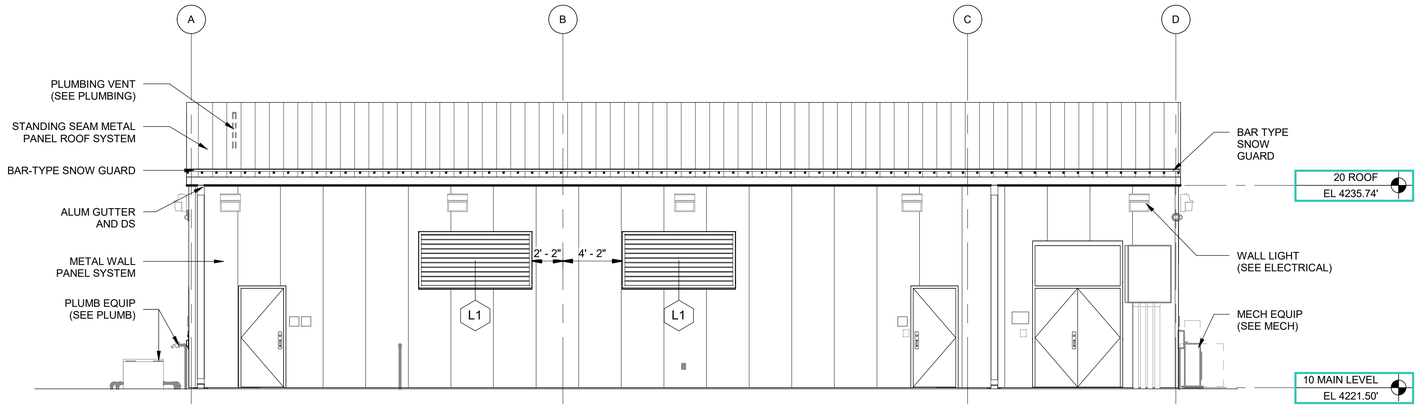
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A | NORTH EXTERIOR ELEVATION

0104-A101 SCALE: 3/16" = 1'-0"



B | SOUTH EXTERIOR ELEVATION

0104-A101 SCALE: 3/16" = 1'-0"

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT.
2. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT.
3. PEMB MFG TO COORDINATE ALL BUILDING PENETRATIONS WITH OTHER DISCIPLINES.

STANDING SEAM ROOF PANEL

PEMB WALL PANEL

SCALE: As indicated

PROJECT ADDRESS: 1365 W 2300 N, SALT LAKE CITY, UT 84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
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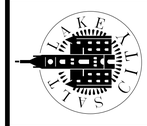
REVISIONS

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LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

NORTH AND SOUTH EXTERIOR ELEVATIONS



04-03-2023

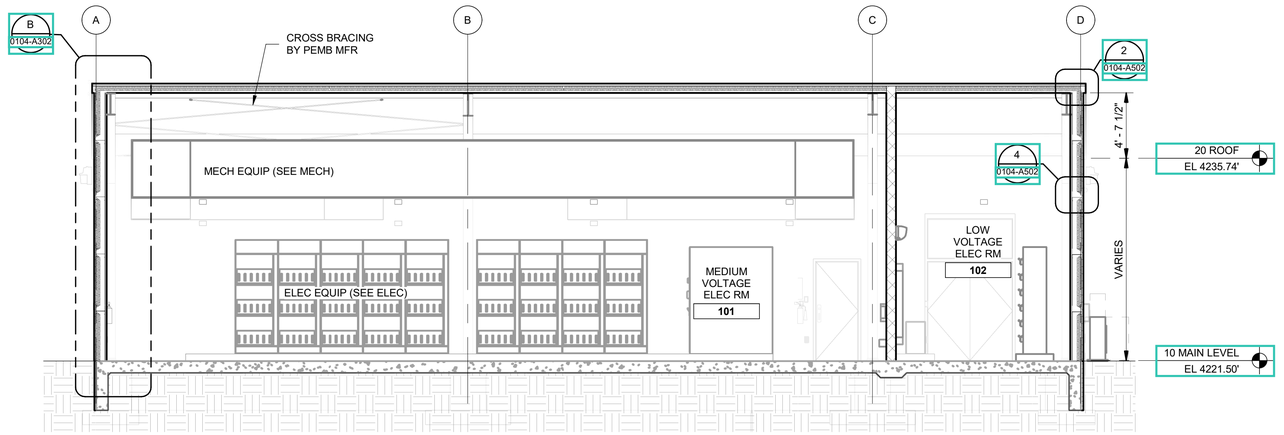
DRAWING No. 0104-A202

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

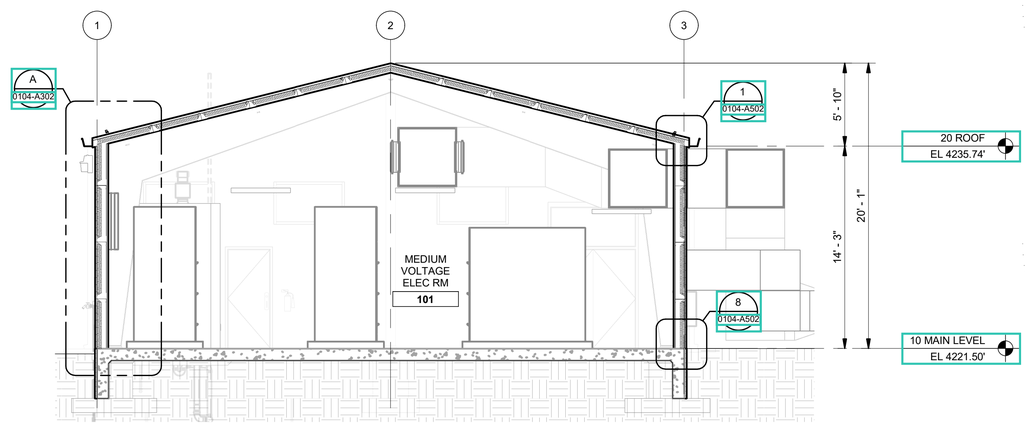
DATE: 3/29/2023 12:15:50 PM

FILE: BIM 360:/605722/88-Salt Lake City 2019/524905350_0104-A001.rvt



A | EAST - WEST BUILDING SECTION

0104-A101 | SCALE: 3/16" = 1'-0"



B | NORTH - SOUTH BUILDING SECTION

0104-A101 | SCALE: 3/16" = 1'-0"

DATE: 3/29/2023 12:16:14 PM

FILE: BIM 360://6057228-Salt Lake City 2019/524905350_0104-A001.rvt

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

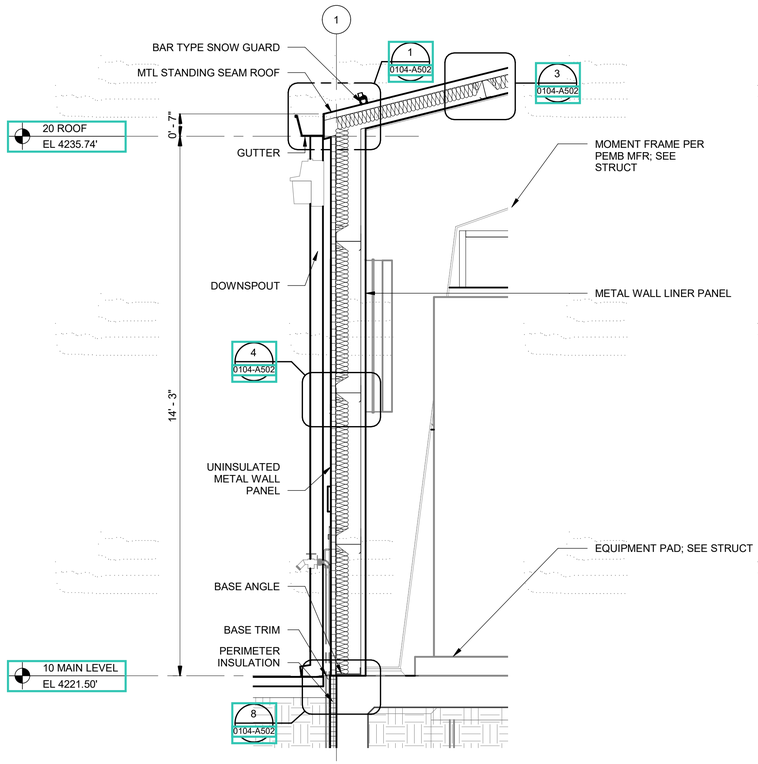
BUILDING SECTIONS

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0104-A301

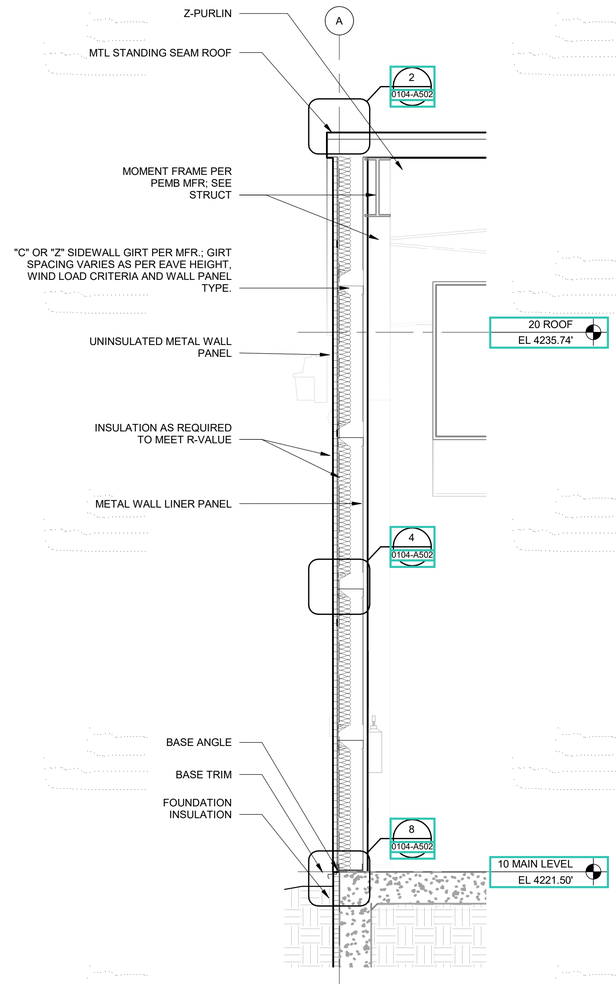
SHEET _____ OF _____

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING



A | WALL SECTION A

0104-A301 | SCALE: 1/2" = 1'-0"



B | WALL SECTION B

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
84116, UNITED STATES

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

DESIGNED BY: D. BLOOD
DRAWN BY: J. WOLFF
CHECKED BY: M. SCHANTZ
APPROVED BY: G.DAVIES
DATE: -
EWO NO.: -
ACCOUNT NO.: 524905386

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
A	23-04-03	SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

WALL SECTION

STATE OF UTAH
DAVID BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

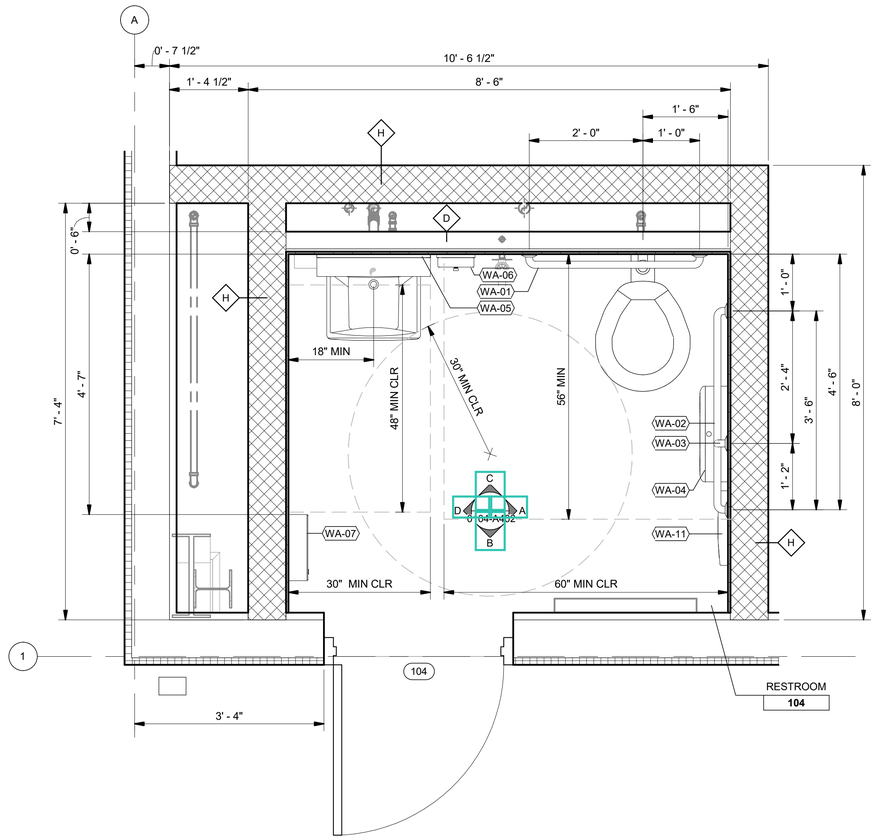
DRAWING No.
0104-A302

SHEET _____ OF _____

VERIFY SCALE | BAR IS ONE INCH ON ORIGINAL DRAWING

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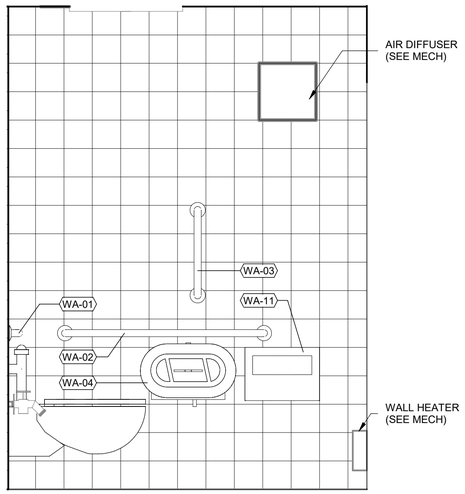
N

MAIN LEVEL RESTROOM
ENLARGED PLAN

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

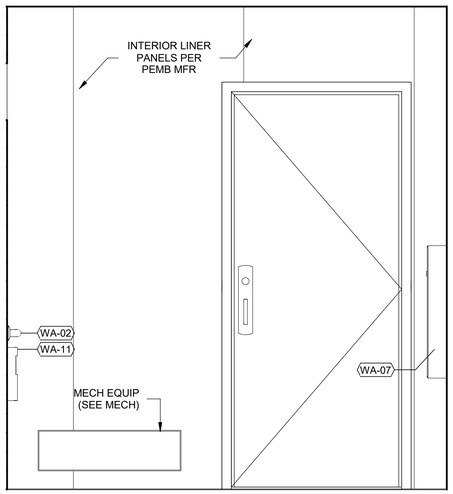
WASHROOM ACCESSORIES

TYPE MARK	DESCRIPTION
WA-01	36" HORIZONTAL GRAB BAR AT BACK WALL
WA-02	42" HORIZONTAL GARB BAR AT SIDE WALL
WA-03	18" VERTICAL GRAB BAR AT SIDE WALL
WA-04	TOILET TISSUE DISPENSER
WA-05	GLASS MIRROR
WA-06	SOAP DISPENSER
WA-07	PAPER TOWEL DISPENSER W/ TRASH RECEPTACLE
WA-11	TOILET SEAT COVER DISPENSER



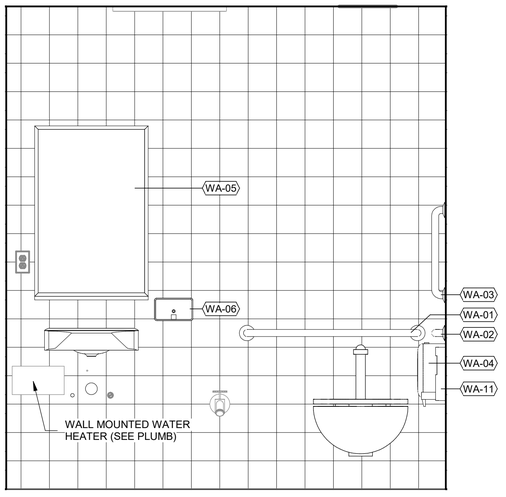
A | MAIN LEVEL RESTROOM
INTERIOR ELEVATION - EAST

0104-A402 | SCALE: 3/4" = 1'-0"



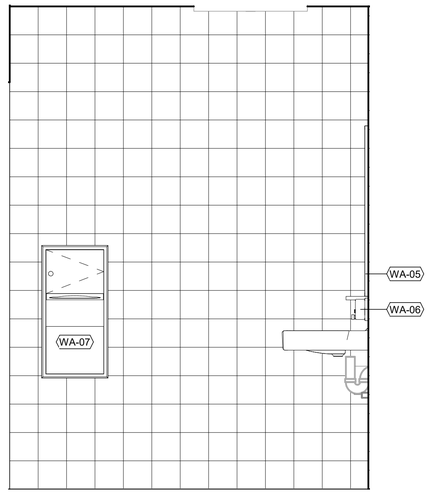
B | MAIN LEVEL RESTROOM
INTERIOR ELEVATION - SOUTH

0104-A402 | SCALE: 3/4" = 1'-0"



C | MAIN LEVEL RESTROOM
INTERIOR ELEVATION - NORTH

0104-A402 | SCALE: 3/4" = 1'-0"



D | MAIN LEVEL RESTROOM
INTERIOR ELEVATION - WEST

0104-A402 | SCALE: 3/4" = 1'-0"

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

PROJECT ADDRESS:
1365 W 2300 N
SALT LAKE CITY, UT
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DESIGNED BY: D. BLOOD
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REVISIONS

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A	23-04-03 SW-1A: ISSUED FOR BID	JW	DB

LAST CONFORMED SET:

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WATER RECLAMATION FACILITY
IPS ELECTRICAL BUILDING

ENLARGED PLAN

STATE OF UTAH
DAVID E. BLOOD
No. 11383041-0301
LICENSED ARCHITECT
04-03-2023

DRAWING No.
0104-A402

SHEET _____ OF _____

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DATE: 3/29/2023 12:16:21 PM

FILE: BIM 360://605722388-Salt Lake City 2019/524905350_0104-A001.rvt