

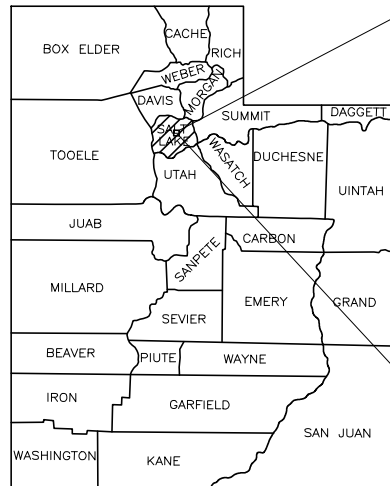


# CITY OF SOUTH SALT LAKE

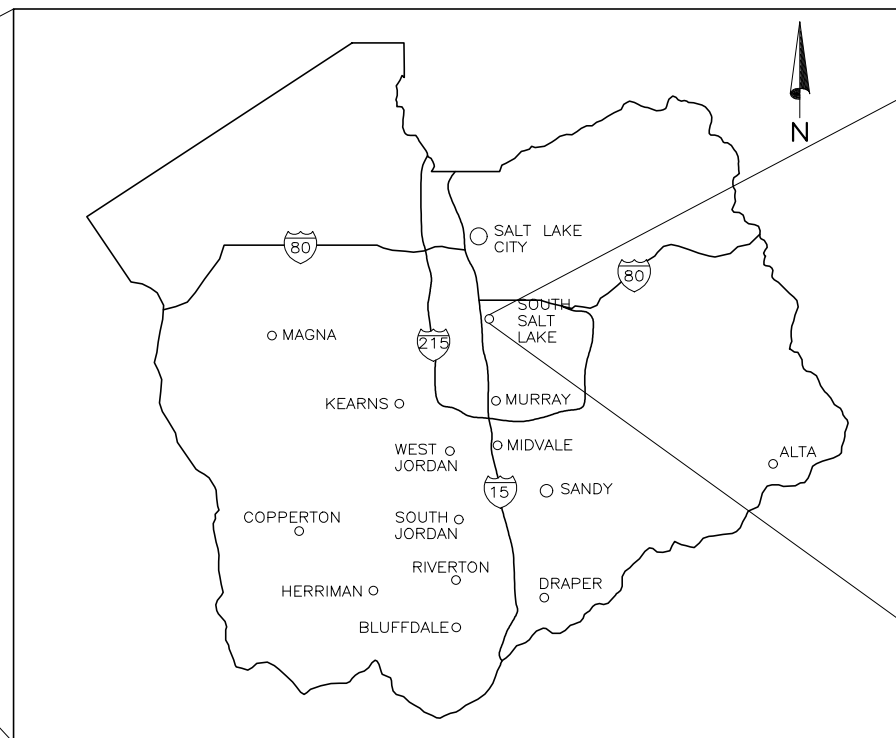
## STORM WATER PUMP STATIONS

### UPGRADES - BLAIR ST & JORDAN RIVER

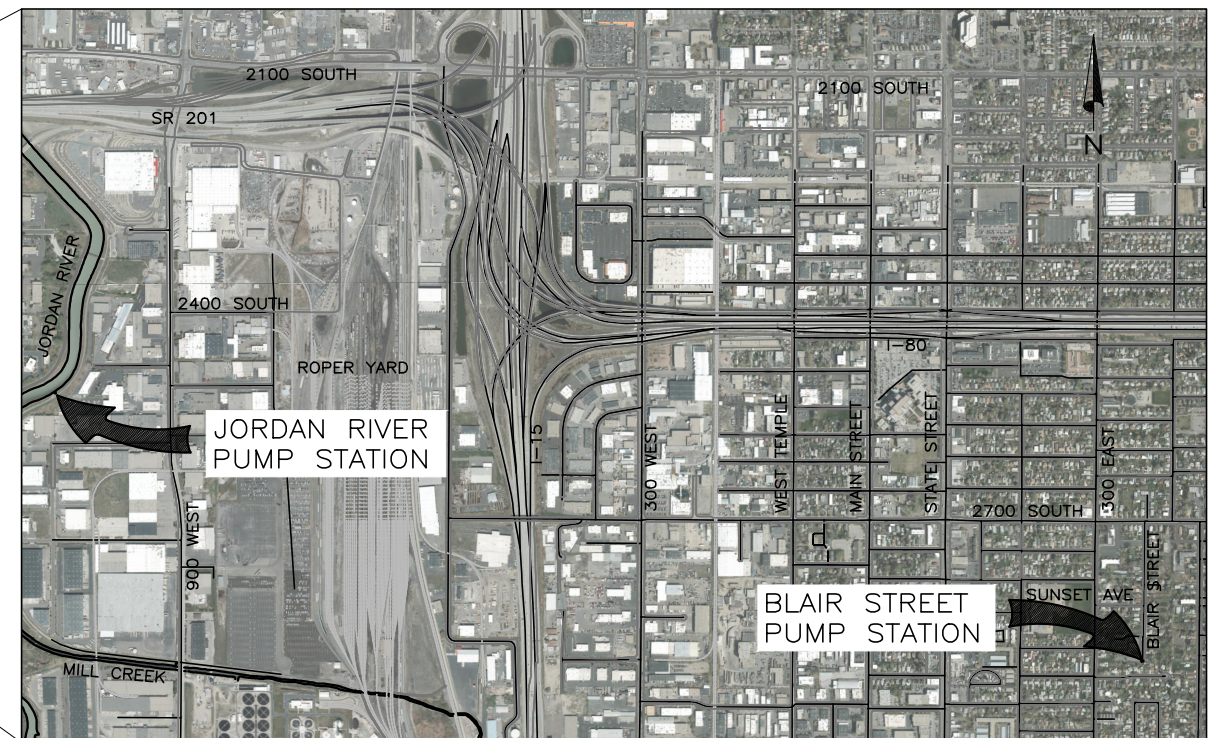
AUGUST 2025  
ISSUED FOR BID



STATE OF UTAH



SALT LAKE COUNTY



PROJECT LOCATIONS

#### HANSEN, ALLEN & LUCE DESIGN TEAM

MICHAEL M. CHAMBERS, P.E. PMP – PRINCIPAL IN CHARGE  
KAI M. KRIEGER, P.E. – PROJECT MANAGER  
AARON C. SPENCER, P.E. – PROJECT ENGINEER

ROBERT CONDER, S.E., P.E. – STRUCTURAL ENGINEER  
(CONDER ENGINEERING, LLC)

ROBERT J. HILLYER, P.E. – ELECTRICAL ENGINEER  
(HEATH ENGINEERING)

#### CITY OF SOUTH SALT LAKE

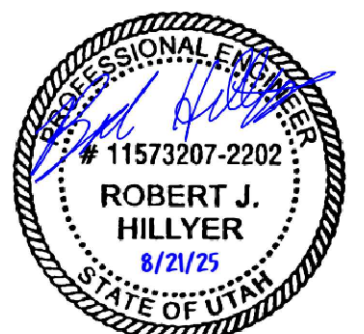
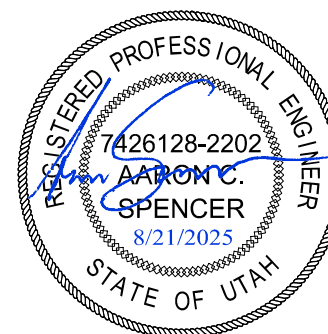
CRAIG GILES – PUBLIC WORKS DIRECTOR  
801-483-6045

CHRIS MERKET, P.E. – CITY ENGINEER  
801-412-3244

CITY OFFICE  
220 EAST MORRIS AVENUE  
SOUTH SLC, UTAH 84115



859 W. SOUTH JORDAN PKWY.  
STE. 200  
SOUTH JORDAN, UTAH 84095  
(801) 566-5599



FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\G-2 INDEX LEGEND & SYMBOLS.DWG  
FILE DATE: 8/21/2025 16:24:36 (MAJ)

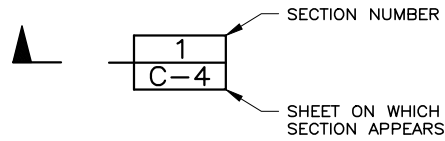
## SECTION, DETAIL & ELEVATION IDENTIFICATION

### NOTES:

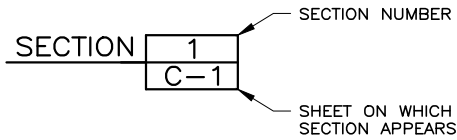
- IF SECTION CUT AND SECTION OR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON SAME SHEET, SHEET NUMBER IS REPLACED BY A LINE.
- DETAIL LETTERS "I" AND "O" NOT USED.

### SECTION IDENTIFICATION

SECTION CUT ON SHEET C-1:

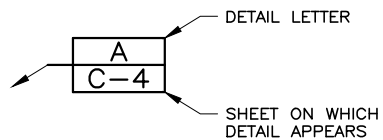


ON SHEET C-4, THIS SECTION IS IDENTIFIED AS:

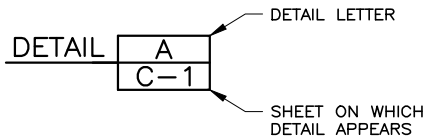


### DETAIL IDENTIFICATION

DETAIL CALL-OUT ON SHEET C-1:



ON SHEET C-4, THIS DETAIL IS IDENTIFIED AS:



## LEGEND

### EXISTING

4-G	EXISTING GAS LINE W/ SIZE
GS	EXISTING GAS SERVICE
10-W	EXISTING WATER LINE W/ SIZE
WS	EXISTING WATER SERVICE
15-SS	EXISTING SANITARY SEWER W/ SIZE
SL	EXISTING SANITARY SEWER LATERAL
24-SD	EXISTING STORM DRAIN W/ SIZE
12-IRR	EXISTING IRRIGATION W/ SIZE
FO-UG	EXISTING FIBER OPTIC LINE
T-UG	EXISTING UNDERGROUND TELEPHONE
C-TV-UG	EXISTING CABLE TV
P-UG	EXISTING UNDERGROUND POWER LINE
P-OH	EXISTING OVERHEAD POWER LINE
TBC	EXISTING TOP BACK OF CURB
LOG	EXISTING LIP OF GUTTER
X	EXISTING FENCE LINE
	EXISTING RAILROAD TRACKS
----	EXISTING PROPERTY LINE
----	EXISTING RIGHT-OF-WAY
----	EXISTING ASPHALT
----	EXISTING MAJOR CONTOUR
----	EXISTING MINOR CONTOUR

	EXISTING FIRE HYDRANT		EXISTING SANITARY SEWER MANHOLE
	EXISTING POWER POLE		EXISTING STORM DRAIN MANHOLE
	EXISTING LIGHT POLE		EXISTING WATER MANHOLE
	EXISTING GUY WIRE		EXISTING GAS MANHOLE
	EXISTING POWER BOX		EXISTING POWER MANHOLE
	EXISTING POWER METER		EXISTING TELEPHONE MANHOLE
	EXISTING TELEPHONE BOX		EXISTING FIBER OPTICS MANHOLE
	EXISTING FIBER OPTIC BOX		EXISTING IRRIGATION MANHOLE
	EXISTING CABLE BOX		EXISTING WATER METER
	EXISTING SIGNAL POLE		EXISTING SEWER CLEANOUT
	EXISTING SIGNAL / LIGHT POLE COMBO		EXISTING VALVES
	EXISTING SIGNAL BOX		EXISTING REDUCERS
	EXISTING TRAFFIC LOOP		EXISTING SD CATCH BASIN
	EXISTING TRAFFIC BOX		EXISTING SD CATCH BASIN / JUNCTION BOX
	EXISTING IRRIGATION BOX		EXISTING SD JUNCTION BOX
	EXISTING SIGN		EXISTING SD CLEANOUT BOX
	EXISTING TREE		EXISTING SD COMBO CATCH BASIN / CLEANOUT BOX

### NEW

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	NEW PROPERTY LINE
	NEW UTILITY LINE
	PERMANENT EASEMENT
	CONSTRUCTION EASEMENT
	RIDGE LINE
	GRADE BREAK
	FLOW LINE
	RETAINING WALL

	NEW MANHOLE		NEW WATER VALVE
	NEW STORM DRAIN BOX		NEW GATE VALVE
	NEW INLET BOX		NEW BUTTERFLY VALVE
	NEW FIRE HYDRANT		NEW PLUG VALVE
			NEW CAP

## CONTROL SYMBOLS

	EXISTING BENCH MARK		EXISTING SURVEY MONUMENT
	EXISTING HORIZONTAL CONTROL POINT		EXISTING SECTION MONUMENT
	EXISTING VERTICAL CONTROL POINT		GEOTECHNICAL BORING
	EXISTING HORIZONTAL & VERTICAL CONTROL POINT		

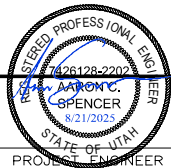
NOTE:  
SURVEY OF EXISTING RING & COVER  
IS FROM CENTER OF THE COVER.

## MISCELLANEOUS

	FITTING SCHEDULE		DIAMETER
	KEY NOTES		ANGLE
	COORDINATE POINT		CENTERLINE

## ABBREVIATIONS

@	= AT	CONT	= CONTINUOUS / CONTINUED	GIP	= GALVANIZED IRON PIPE	OC	= ON CENTER	TOC	= TOP OF CONCRETE
APPROX	= APPROXIMATE	DIA	= DIAMETER	GPM	= GALLONS PER MINUTE	O.F.	= OUTSIDE FACE / OVERFLOW	TOS	= TOP OF SLAB
B&S	= BELL & SPIGOT	DIP	= DUCTILE IRON PIPE	HORIZ	= HORIZONTAL	PE	= PLAIN END / POLYETHYLENE	TYP	= TYPICAL
CB	= CATCH BASIN / CURB	DWG	= DRAWING	ID	= INSIDE DIAMETER	PSI	= POUNDS PER SQUARE INCH	UBC	= UNTREATED BASE COURSE
CC	= CENTER TO CENTER	EF	= EACH FACE / EXHAUST FAN	I.F.	= INSIDE FACE	PVC	= POLYVINYL CHLORIDE	VERT	= VERTICAL
CIP	= CAST IRON PIPE / CAST IN PLACE	EL	= ELEVATION	INV	= INVERT	RCP	= REINFORCED CONCRETE PIPE	W/	= WITH
CL	= CENTERLINE / CLASS	EO	= EDGE OF OIL	L.O.G.	= LIP OF GUTTER	SCR	= SCREWED	WSP	= WELDED STEEL PIPE
CLR	= CLEAR / CLEARANCE	EW	= EACH WAY	MAX	= MAXIMUM	SF	= SQUARE FOOT (FEET)	YD	= YARD
CLSM	= CONTROLLED LOW STRENGTH MATERIAL	FL	= FLOWLINE	MH	= MANHOLE	SL	= SLIP		
CMP	= CORRUGATED METAL PIPE	FLG	= FLANGE / FLOORING	MIN	= MINIMUM / MINUTE	SQ	= SQUARE		
CONC	= CONCRETE / CONCENTRIC	FPS	= FEET PER SECOND	MJ	= MECHANICAL JOINT	SS	= STAINLESS STEEL / SANITARY SEWER		
		GA	= GAGE / GAUGE	MPT	= MALE PIPE THREAD	STA	= STATION		
		GAL	= GALLON	NTS	= NOT TO SCALE	TBC	= TOP BACK OF CURB		



DESIGNED	ACS	2
DRAFTED	MAJ	1
CHECKED	KMK	0
DATE	AUGUST 2025	NO.

DATE	
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REVISIONS

BY	
APVD.	

SCALE

NONE



STORM WATER PUMP STATIONS UPGRADES  
GENERAL  
ABBREVIATIONS, LEGENDS & INDEX OF DRAWINGS

SHEET

G-2

126.60.100



FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\G-3 GENERAL NOTES.DWG  
FILE DATE: 8.7.2025 14:55:20 (MAJ)

GENERAL NOTES

GENERAL NOTES

- 1. CONTRACTOR SHALL MEET ALL UTAH STATE DEPARTMENT OF ENVIRONMENTAL QUALITY AND U.S. EPA REQUIREMENTS WITH RESPECT TO THEIR MINIMUM RULES AND REGULATIONS.
- 2. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED AND SIGNS, BARRICADES, AND FLASHERS SHALL BE PLACED SO AS TO COMPLY WITH OSHA, UTAH STATE INDUSTRIAL COMMISSION, LOCAL SAFETY STANDARDS, AND UDOT'S MANUAL ON UNIFORM TRAFFIC CONTROL.
- 3. UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, INCLUDING WATER LINES, IRRIGATION DRAIN LINES, GAS LINES, TELEPHONE CABLES, ETC. AND ANY OTHER OBSTRUCTION DURING THE COURSE OF CONSTRUCTION AND INSTALLATION OF THE WORK. CONTRACTOR SHALL CALL BLUE STAKES (811) (1-800-662-4111) AT LEAST 3 DAYS BEFORE BEGINNING CONSTRUCTION.
- 4. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN RIGHT OF INGRESS AND EGRESS SHOULD THEY VENTURE ONTO PRIVATE PROPERTY WHICH IS NOT WITHIN CITY EASEMENTS OR ACQUIRED RIGHTS-OF-WAY AND EASEMENTS.
- 5. UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING IMPROVEMENTS DURING CONSTRUCTION AND SHALL REPLACE OR RESTORE ANY IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION ACTIVITY, AS DIRECTED BY ENGINEER.
- 7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 8. REFERENCE 2017 APWA STANDARD PLAN AND SPECIFICATIONS, SOUTH SALT LAKE CITY STANDARDS, AND ADDITIONAL SPECIFICATIONS INCLUDED HEREIN. IN CASE OF CONFLICT BETWEEN CODES, REFERENCE STANDARDS, DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- 9. THIS PROJECT IS LOCATED IN SOUTH SALT LAKE CITY LIMITS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND APPROVALS FROM SOUTH SALT LAKE CITY AND SHALL COMPLY WITH SOUTH SALT LAKE CITY REGULATIONS FOR TRAFFIC CONTROL, SAFETY, EXCAVATION IN CITY OWNED RIGHTS OF WAY, ETC.
- 10. CONTRACTOR MUST COMPLY WITH ALL UPDES REQUIREMENTS PER THE STATE OF UTAH CONSTRUCTION GENERAL STORM WATER PERMIT (CGP). TO BE COVERED UNDER THIS PERMIT, CONTRACTOR IS RESPONSIBLE FOR PREPARATION, IMPLEMENTATION, AND MONITORING OF THE SITE STORM WATER POLLUTION PREVENTION PLAN (SWPPP); SUBMITTING AND COMPLETING AN ACCURATE NOTICE OF INTENT (NOI); REMITTING THE PERMIT FEE; AND RECEIVING AN AUTHORIZATION TO DISCHARGE LETTER AND COMPLETE AND SUBMIT A NOTICE OF TERMINATION (NOT) AT THE COMPLETION OF THE PROJECT.
- 11. CONTRACTOR IS RESPONSIBLE FOR SITE DUST CONTROL AND SUPPRESSION FOR THE DURATION OF THE PROJECT (WEEKENDS INCLUDED).
- 12. NON-SHRINK GROUT SHALL BE USED WHEREVER GROUT IS REQUIRED.

STORM DRAIN NOTES

- 1. THE EXISTING STORM DRAIN SHALL REMAIN IN SERVICE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ANY TEMPORARY PUMPS, PIPING OR RELATED EQUIPMENT REQUIRED TO BYPASS STORM DRAIN FLOWS AROUND AREAS OF CONSTRUCTION. A PLAN OF CONSTRUCTION OPERATIONS SHALL BE PREPARED BY CONTRACTOR, SUBMITTED TO ENGINEER, AND APPROVED BY ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 2. SENSITIVE CONSTRUCTION WHICH WOULD EITHER OBSTRUCT STORM DRAIN FLOWS, OR THAT WOULD BE DAMAGED BY STORM WATER FLOWS, MUST BE PERFORMED WHEN THE FORECAST SHOWS MINIMAL CHANCE OF SIGNIFICANT RUNOFF.
- 3. WHERE PUMPS ARE USED, BACKUP PUMPS OF EQUAL CAPACITY MUST BE PROVIDED, AS WELL AS BACKUP GENERATORS CAPABLE OF SUPPORTING THE PUMPS AT FULL DISCHARGE.

SURVEY CONTROL DATA

SPECIFIC CONTROL POINTS WERE NOT TIED FOR THIS PROJECT. ALL MEASUREMENTS AND FIELD DATA ARE IN STATE PLANE GRID COORDINATES, NAD83 (WGS84), UTAH STATE PLANE CENTRAL (4302), US SURVEY FEET. ELEVATIONS ARE PER GEOID 18 (NAVD88).



DESIGNED	ACS	2	
DRAFTED	MAJ	1	
CHECKED	KMK	0	

NO.

DATE

DATE

REVISIONS

BY

APVD.

SCALE

NONE



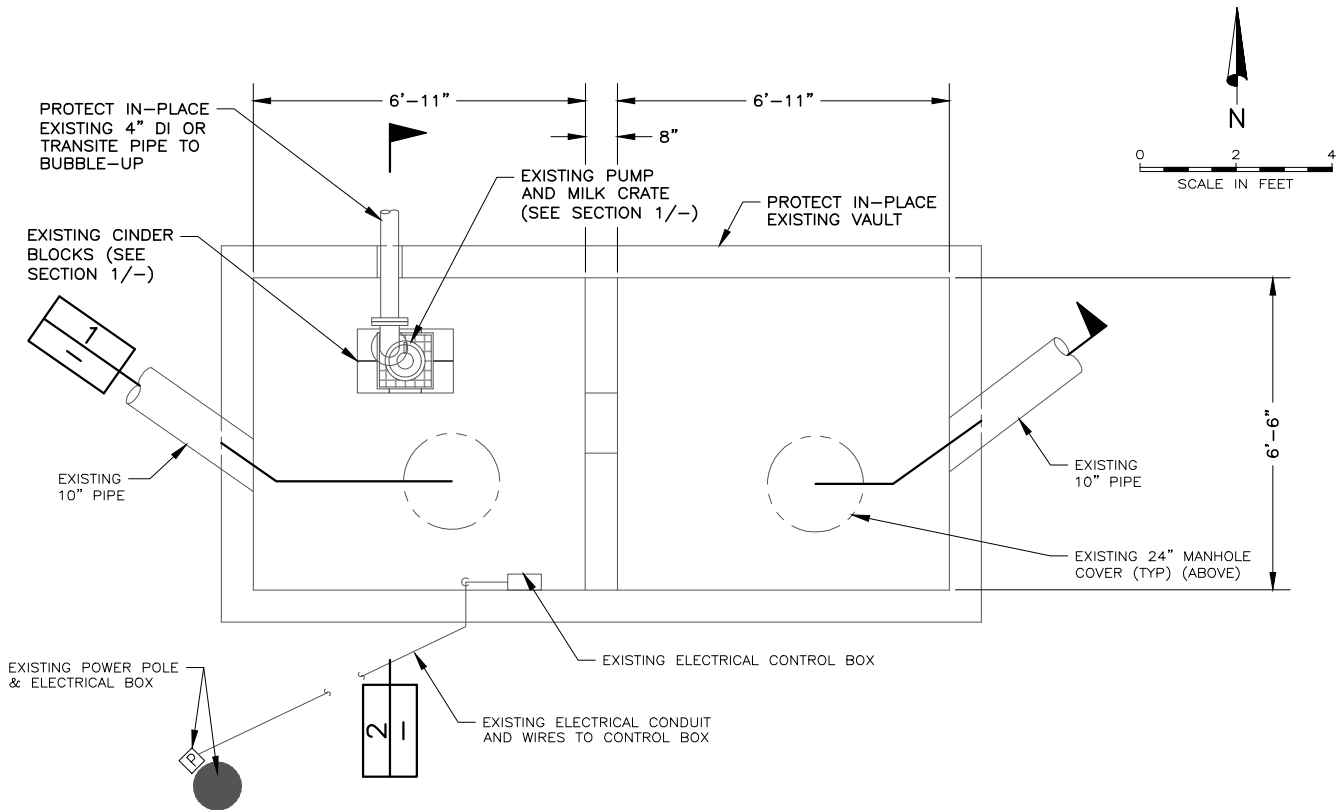
STORM WATER PUMP STATIONS UPGRADES  
GENERAL  
GENERAL NOTES

SHEET

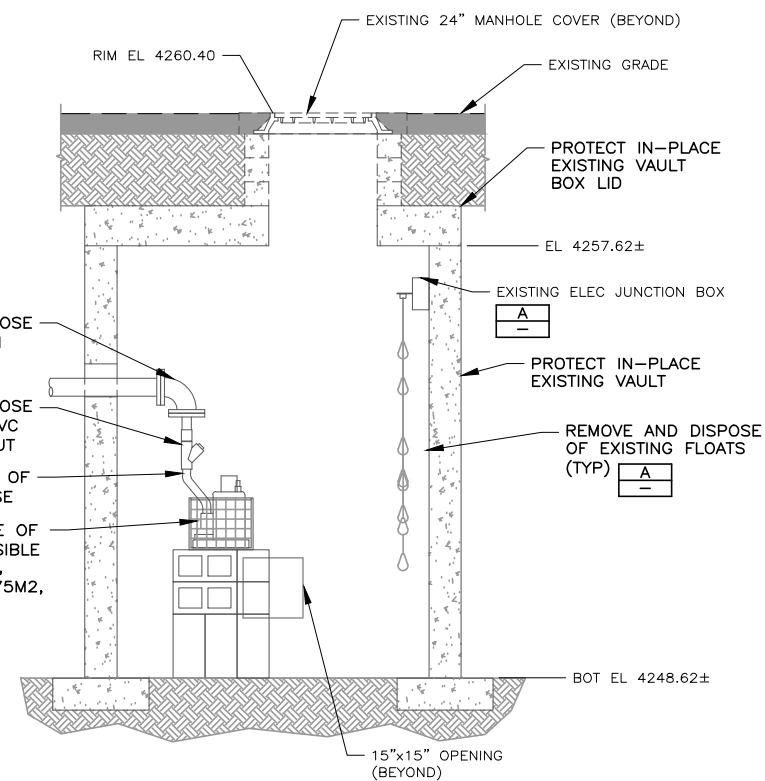
G-3

126.60.100

FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\D-1 BLAIR STREET PS DEMO PLAN & SECTIONS.DWG  
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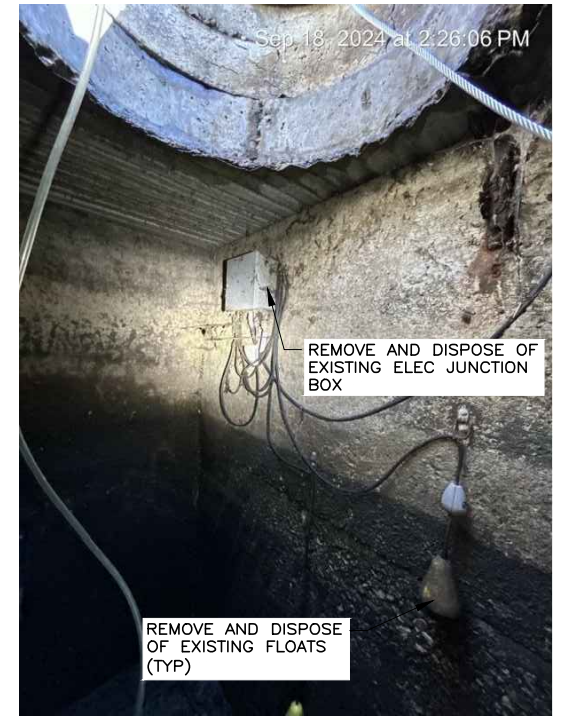


FLOOR PLAN



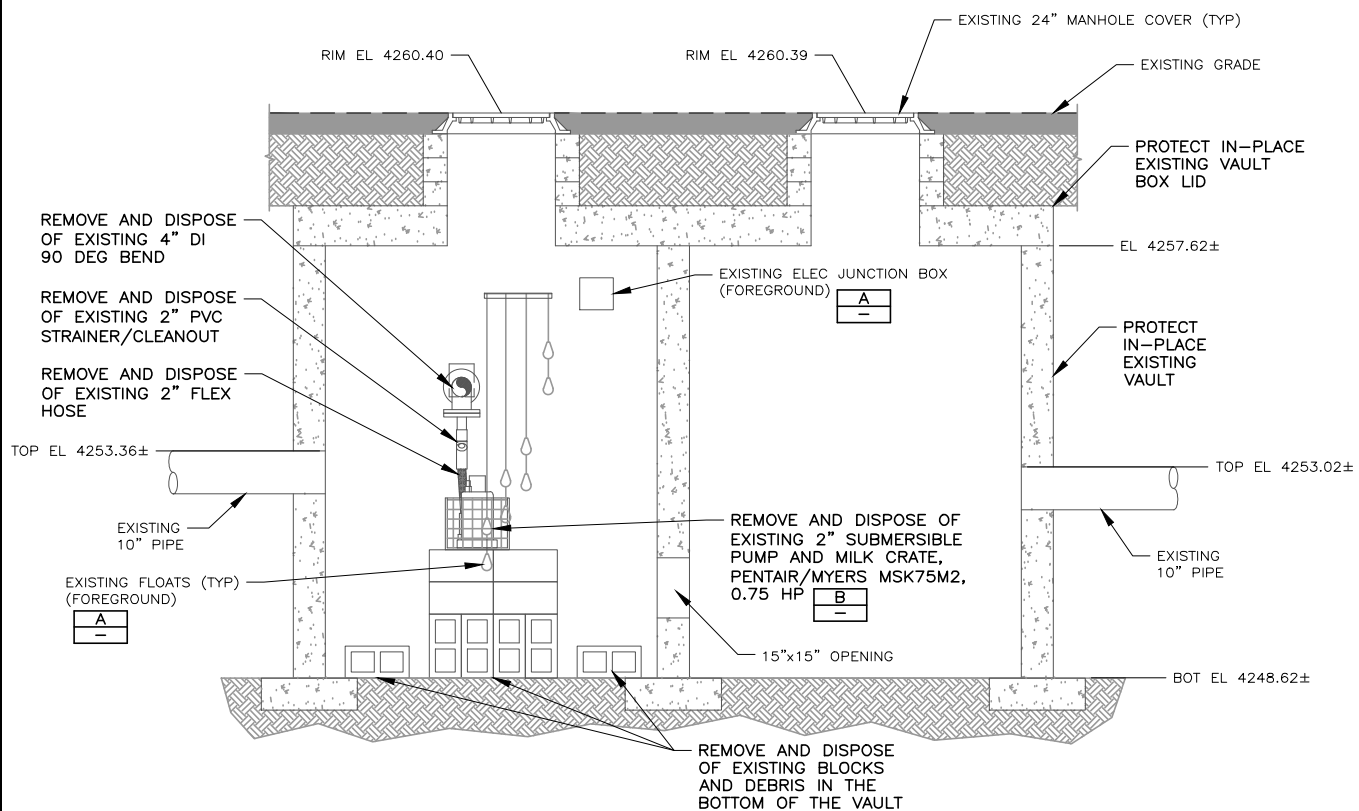
SECTION

2  
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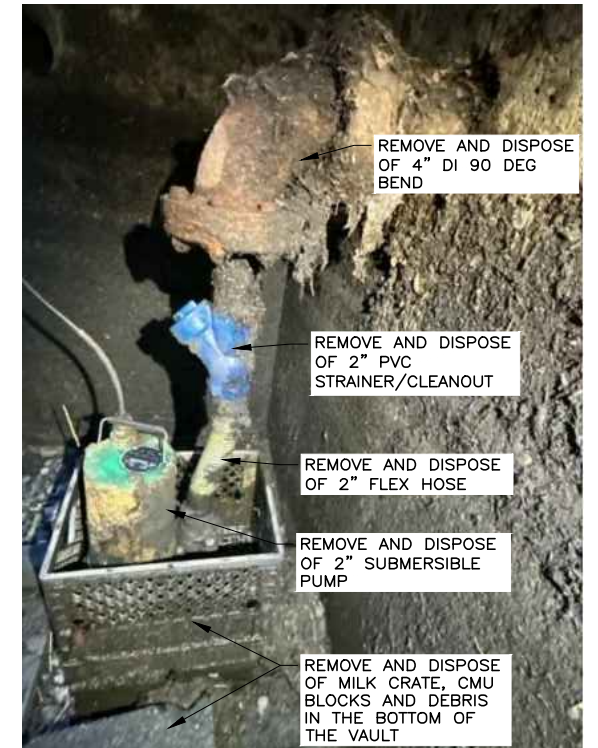
ELEC BOX & FLOATS

A  
—



SECTION

1  
—

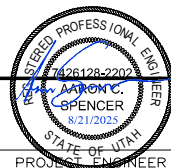


EXIST 2" SUBMERSIBLE PUMP

B  
—

GENERAL SHEET NOTES:

1. SEE SHEET C-1 FOR SITE PLAN OF STRUCTURE
2. DISPOSE OF ALL DEMOLISHED MATERIALS OFF-SITE AT AN APPROVED LANDFILL FACILITY.



DESIGNED ACS  
DRAFTED MAJ  
CHECKED KMK  
DATE AUGUST 2025

2  
1  
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NO.

DATE

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BY

APVD.

SCALE  
AS SHOWN



STORM WATER PUMP STATIONS UPGRADES  
DEMOLITION  
BLAIR STREET PS EXIST PLAN & SECTIONS

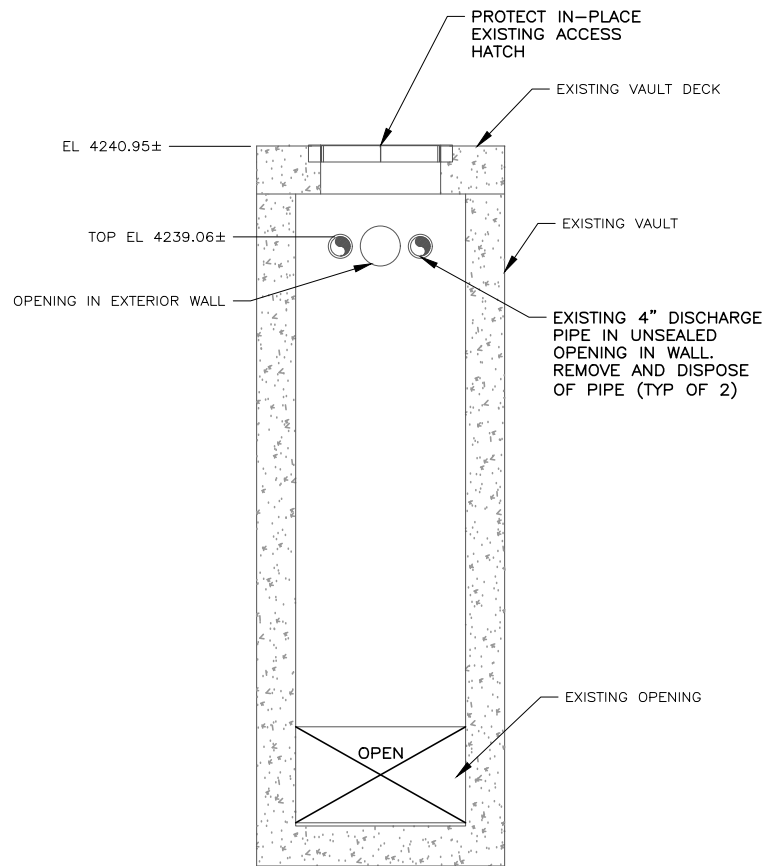
SHEET  
D-1

126.60.100

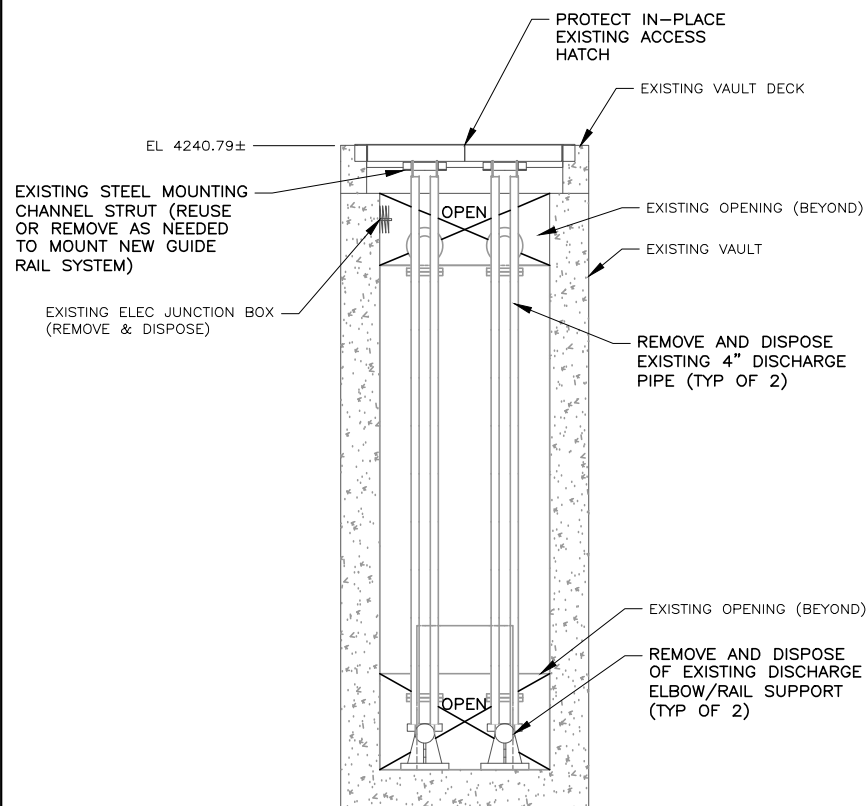




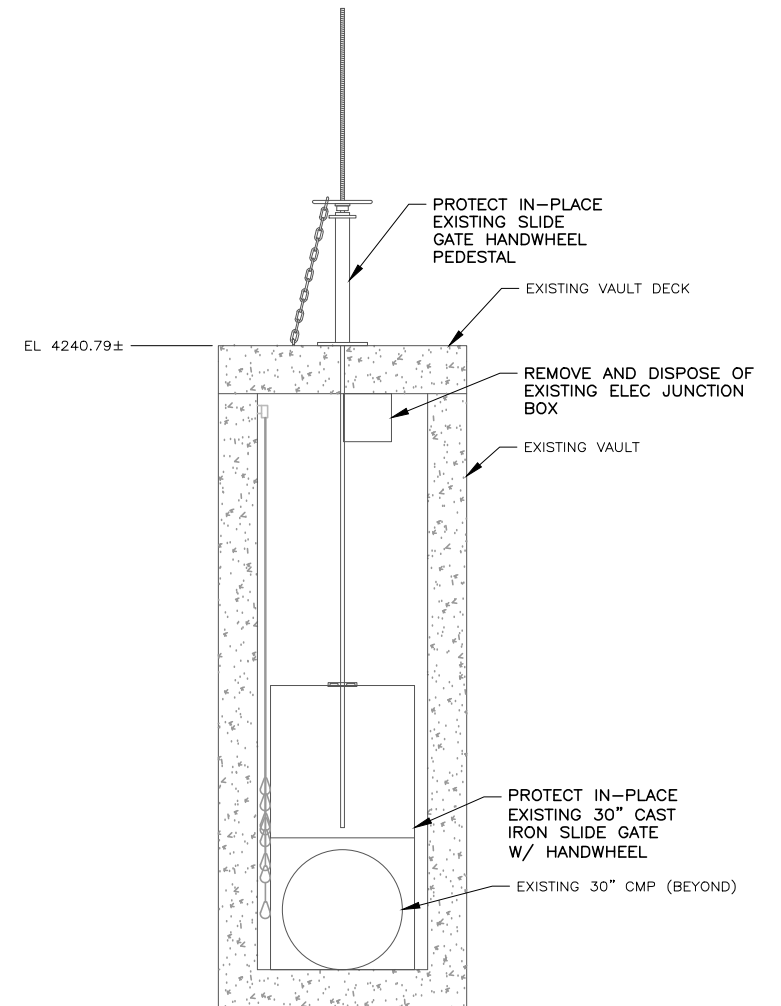
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SECTION 4  
D-2  
SCALE IN FEET

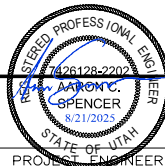


SECTION 5  
D-2  
SCALE IN FEET



SECTION 6  
D-2  
SCALE IN FEET

- GENERAL SHEET NOTES:**
- SEE SHEET C-3 FOR SITE PLAN OF STRUCTURE.
  - DISPOSE OF ALL DEMOLISHED MATERIALS OFF-SITE AT AN APPROVED LANDFILL FACILITY.



DESIGNED	ACS	2	
DRAFTED	MAJ	1	
CHECKED	KMK	0	
DATE	AUGUST 2025	NO.	DATE

REVISIONS

BY

APVD.

SCALE  
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SHOWN

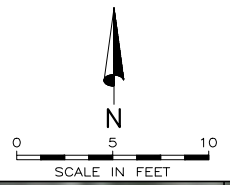
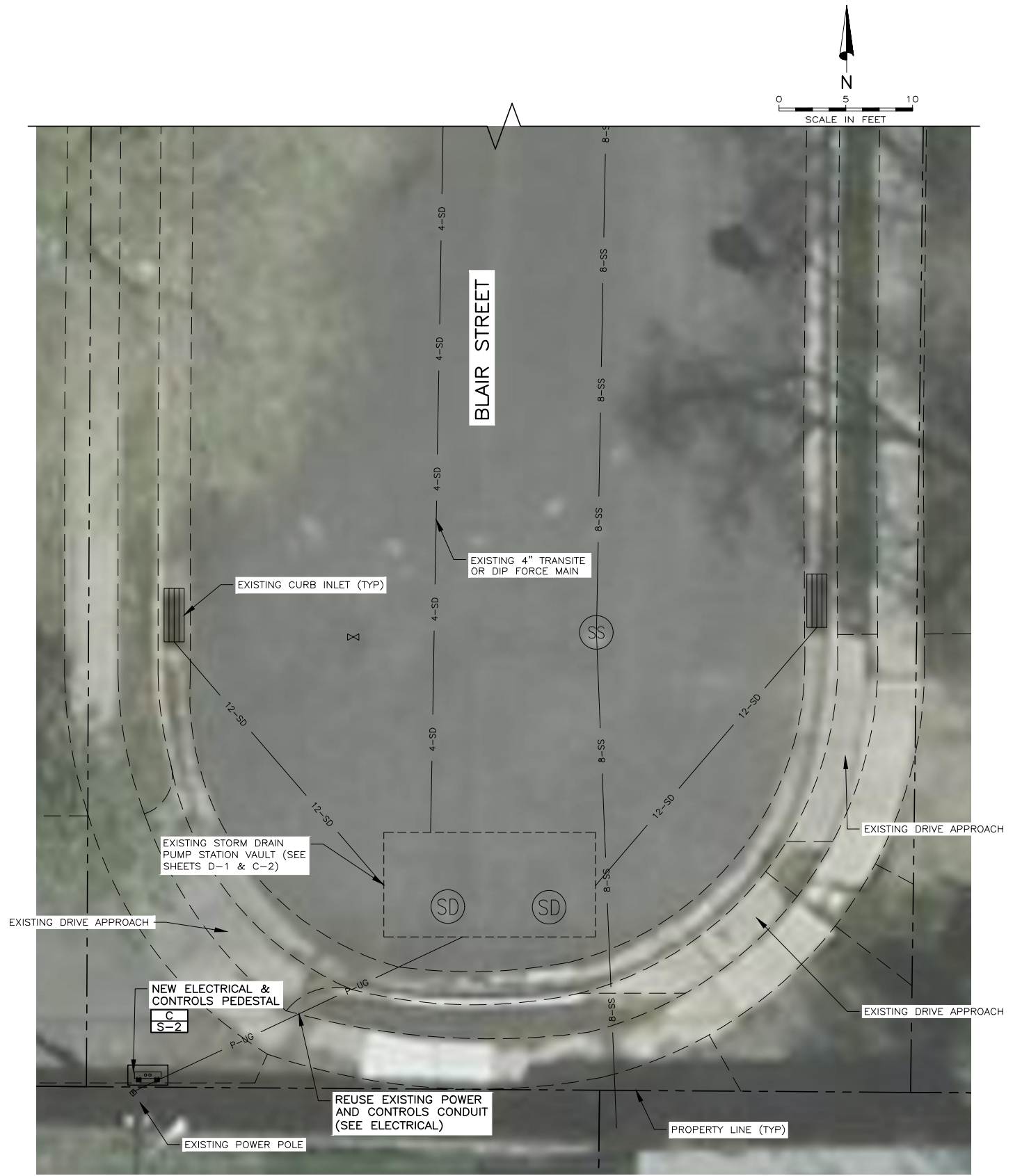
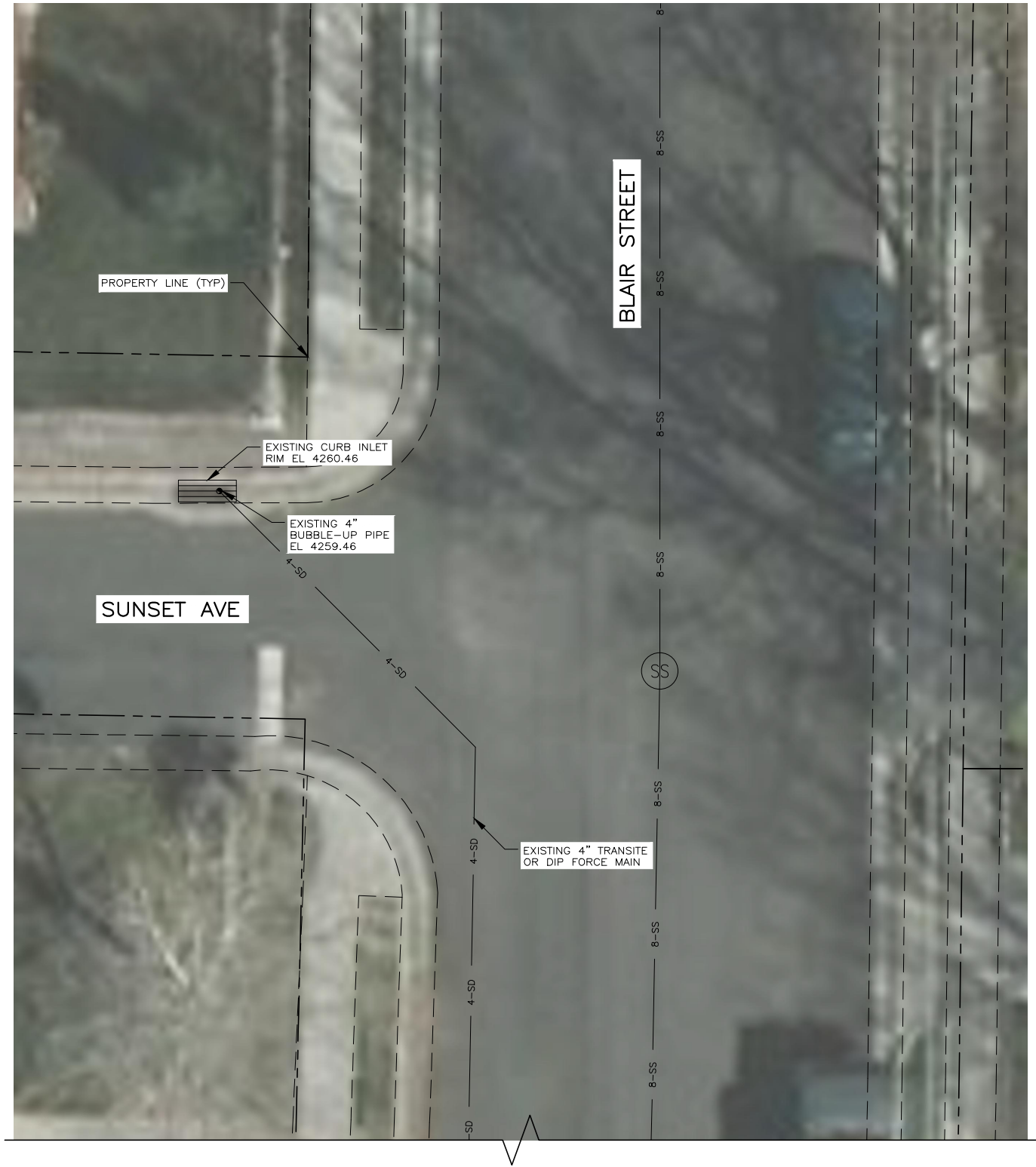


STORM WATER PUMP STATIONS UPGRADES  
DEMOLITION  
JORDAN RIVER PS EXISTING SECTIONS

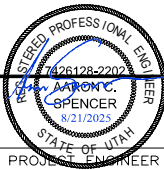
SHEET  
D-3  
126.60.100



FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\C-1 BLAIR STREET PS SITE PLAN.DWG  
FILE DATE: 8/21/2025 16:34:25 (MAJ)



- GENERAL SHEET NOTES:**
1. DRIVEWAY ACCESSES MUST BE KEPT OPEN AT ALL TIMES UNLESS CONTRACTOR OBTAINS APPROVAL FOR A SHORT CLOSURE FROM THE OWNER AND COORDINATES WITH THE RESIDENTS.
  2. CONTRACTOR MAY STAGE MATERIALS AND EQUIPMENT ON THE EAST SHOULDER OF THE ROAD, OR AS OTHERWISE COORDINATED WITH THE CITY, BUT MUST MINIMIZE OBSTRUCTION TO TYPICAL PARKING LOCATIONS AND DRIVE PATHS FOR RESIDENTS.



DESIGNED	ACS	2			
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DATE	AUGUST 2025	NO.	DATE	REVISIONS	BY
					APVD.

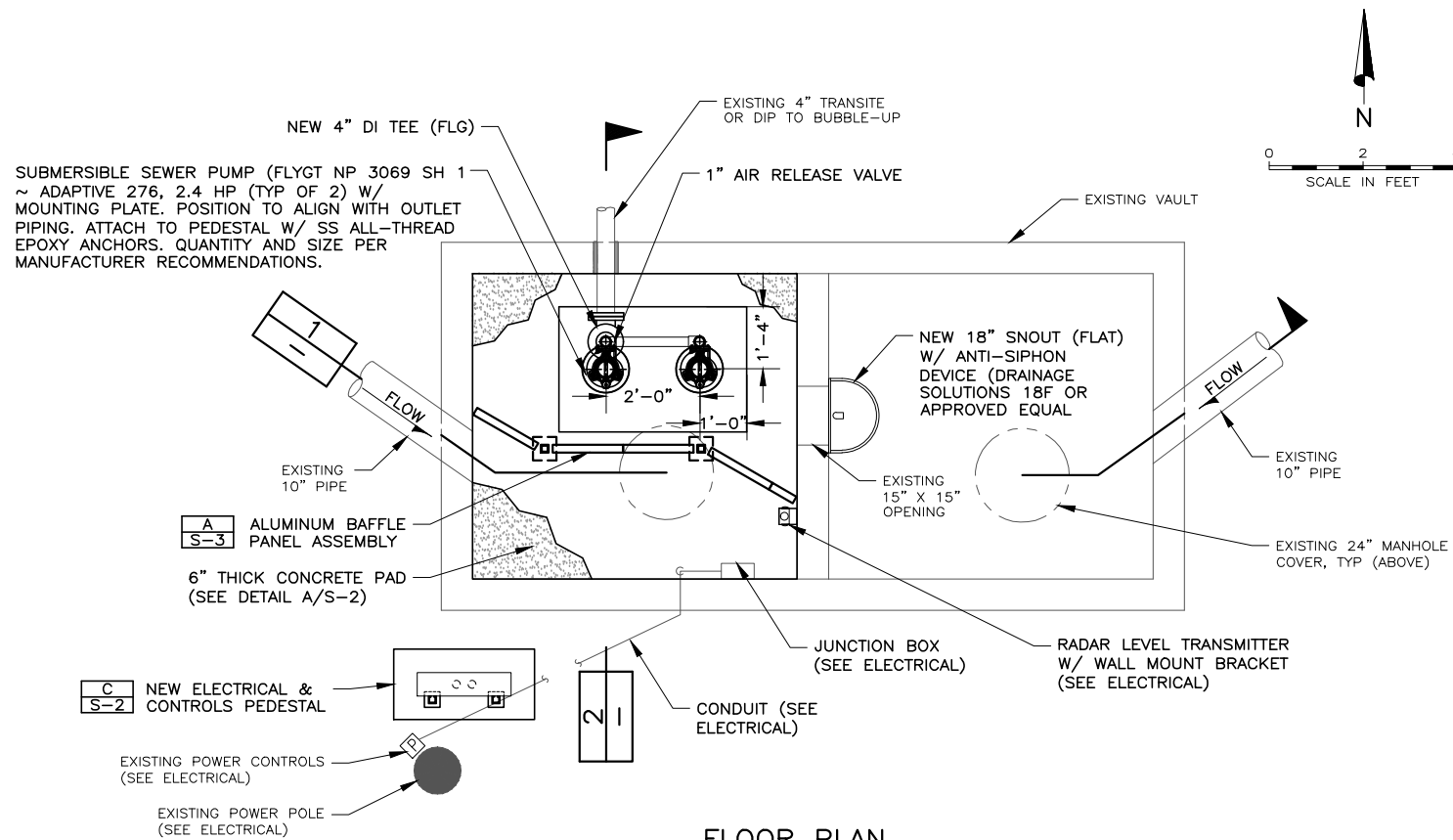
SCALE  
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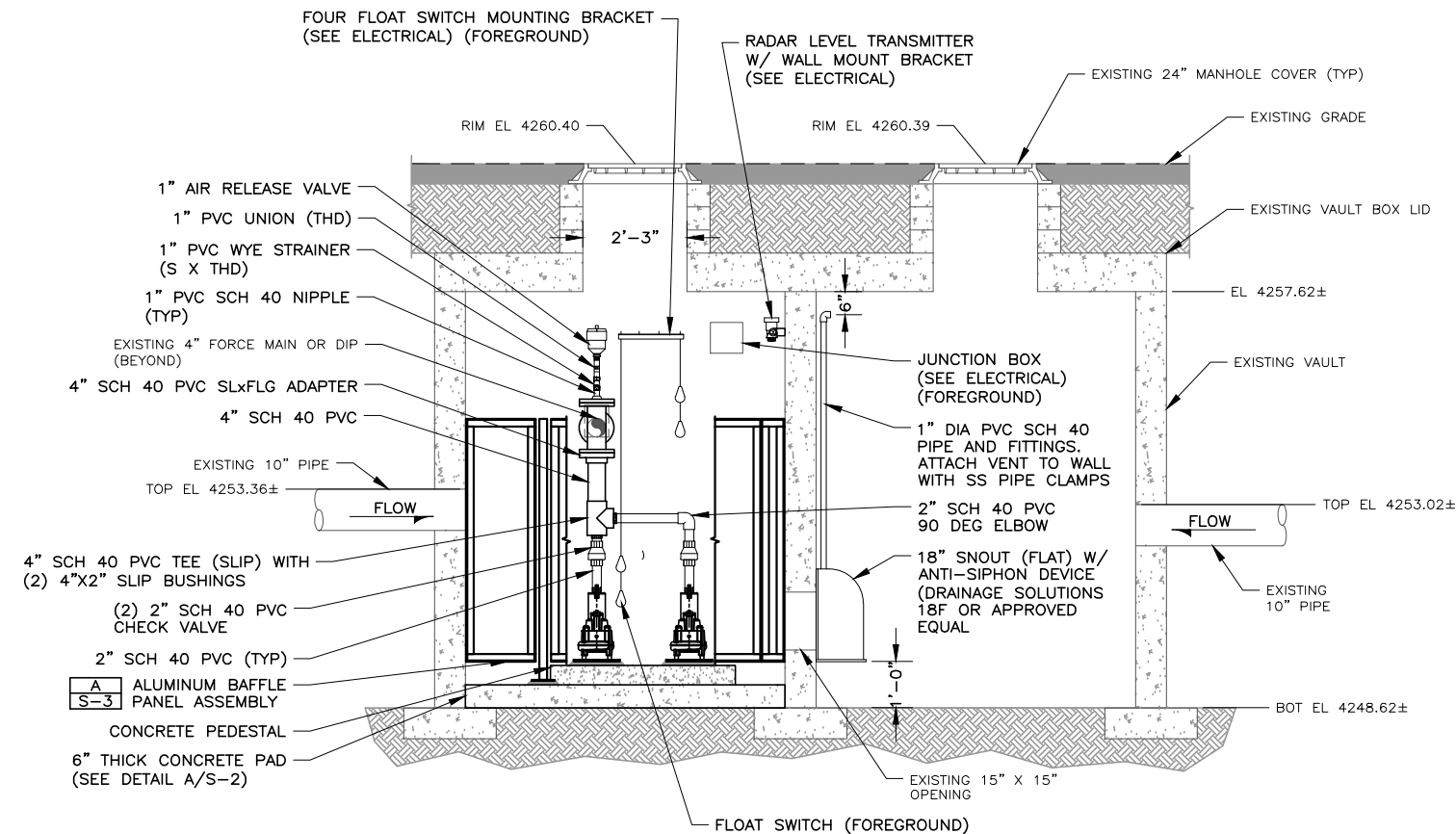
STORM WATER PUMP STATIONS UPGRADES  
CIVIL  
BLAIR STREET PS SITE PLAN

SHEET  
C-1  
126.60.100

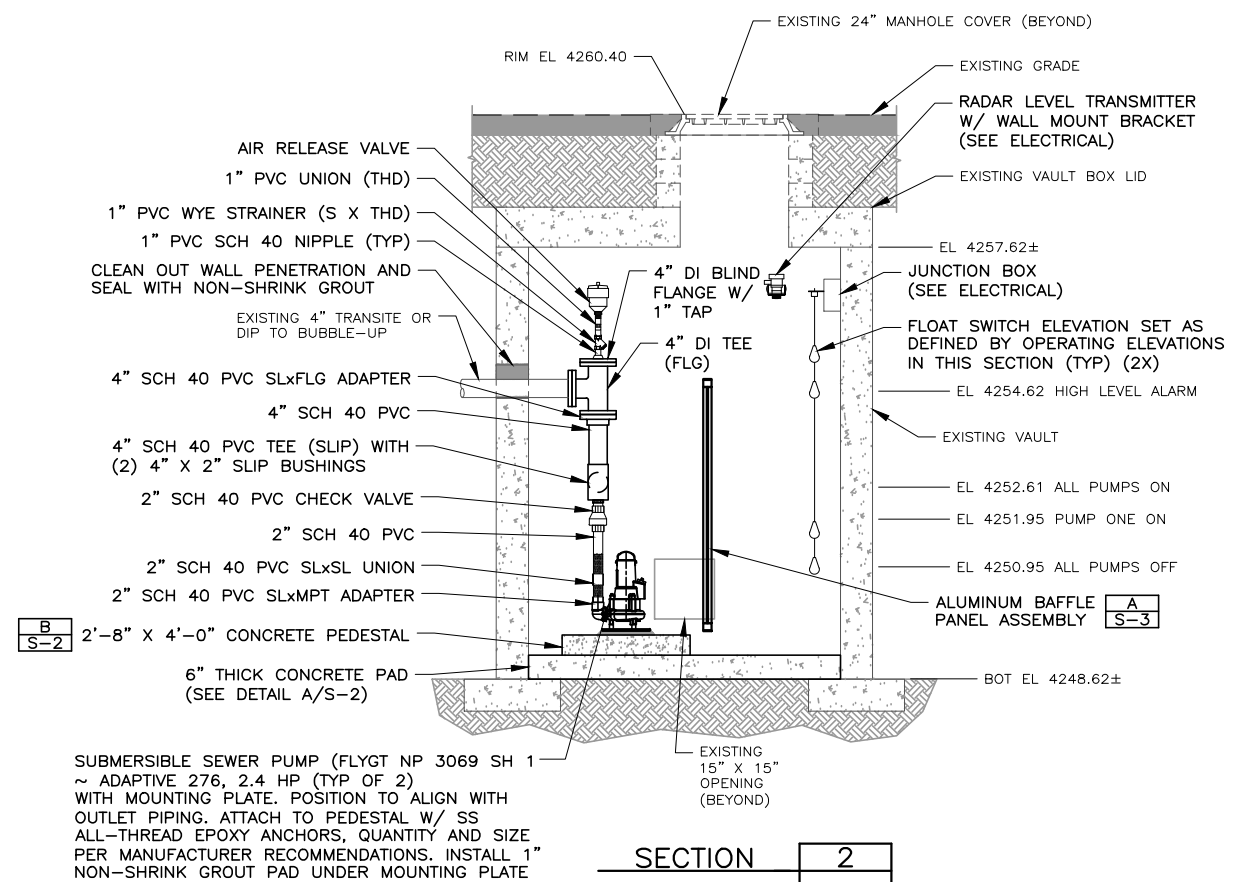
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FILE DATE: 8.21.2025 16:37:36 (MAJ)



FLOOR PLAN



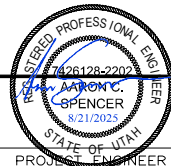
SECTION 1



SECTION 2

GENERAL SHEET NOTES:

- ALL NUTS, BOLTS AND WASHERS SHALL BE TYPE 304 STAINLESS STEEL.
- COAT ALL DUCTILE IRON PIPE AND FITTINGS PER SPECIFICATION SECTION 09 90 00 - SYSTEM #7.



DESIGNED ACS  
DRAFTED MAJ  
CHECKED KMK  
DATE AUGUST 2025

NO. 2  
1  
0

DATE

NO.

DATE

REVISIONS

BY

APVD.

SCALE  
AS SHOWN



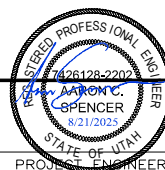
STORM WATER PUMP STATIONS UPGRADES  
CIVIL  
BLAIR STREET PS PLAN & SECTIONS

SHEET  
C-2  
126.60.100





1. CONTRACTOR TO PROVIDE BEST MANAGEMENT PRACTICES AS PART OF A COMPREHENSIVE SWPPP PLAN THAT WILL PREVENT ANY DIRT OR MATERIALS FROM CONSTRUCTION SITE ENTERING THE RIVER.
2. CONTRACTOR TO RESTORE ANY DISTURBED AREAS BY LEVELING TO MATCH ORIGINAL GRADE AND SEEDING WITH AN APPROPRIATE GRASS SEED MIX APPROVED BY THE ENGINEER.
3. SITE ACCESS TO BE COORDINATED WITH THE CITY. THE UTILITY ROAD/TRAIL MAY BE ACCESSED FROM THE INTERSECTION OF MILLCREEK ROAD AND 900 WEST. COORDINATE WITH THE CITY FOR ACCESS THROUGH THE GATE.
4. TRAIL MUST REMAIN OPEN TO PUBLIC USE. CONTRACTOR MUST PROVIDE ADEQUATE TRAFFIC CONTROL AND BARRIERS TO PROTECT PUBLIC TRAIL USERS. CLOSURE OF THE ACCESS ROAD IS NOT ANTICIPATED, BUT IF NECESSARY MUST BE COORDINATED WITH THE MANAGING PUBLIC AGENCY.

[illegible]

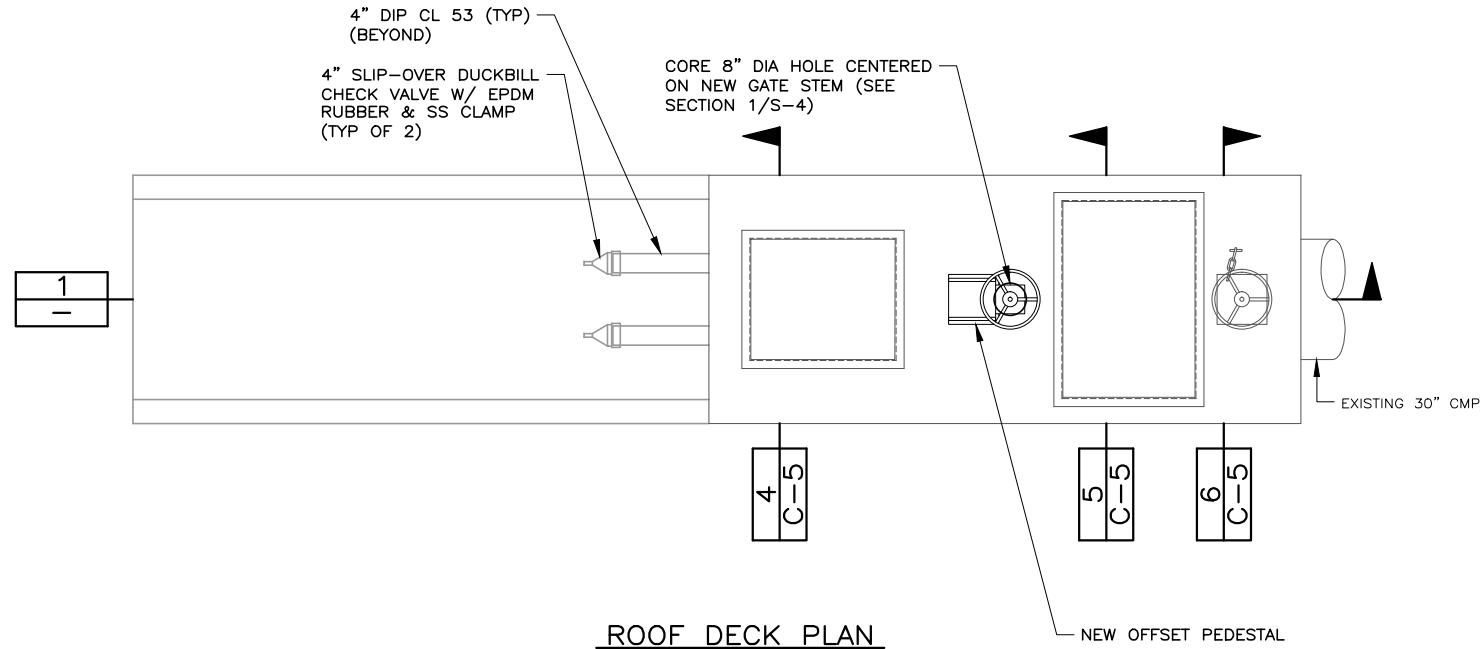
SCALE  
AS  
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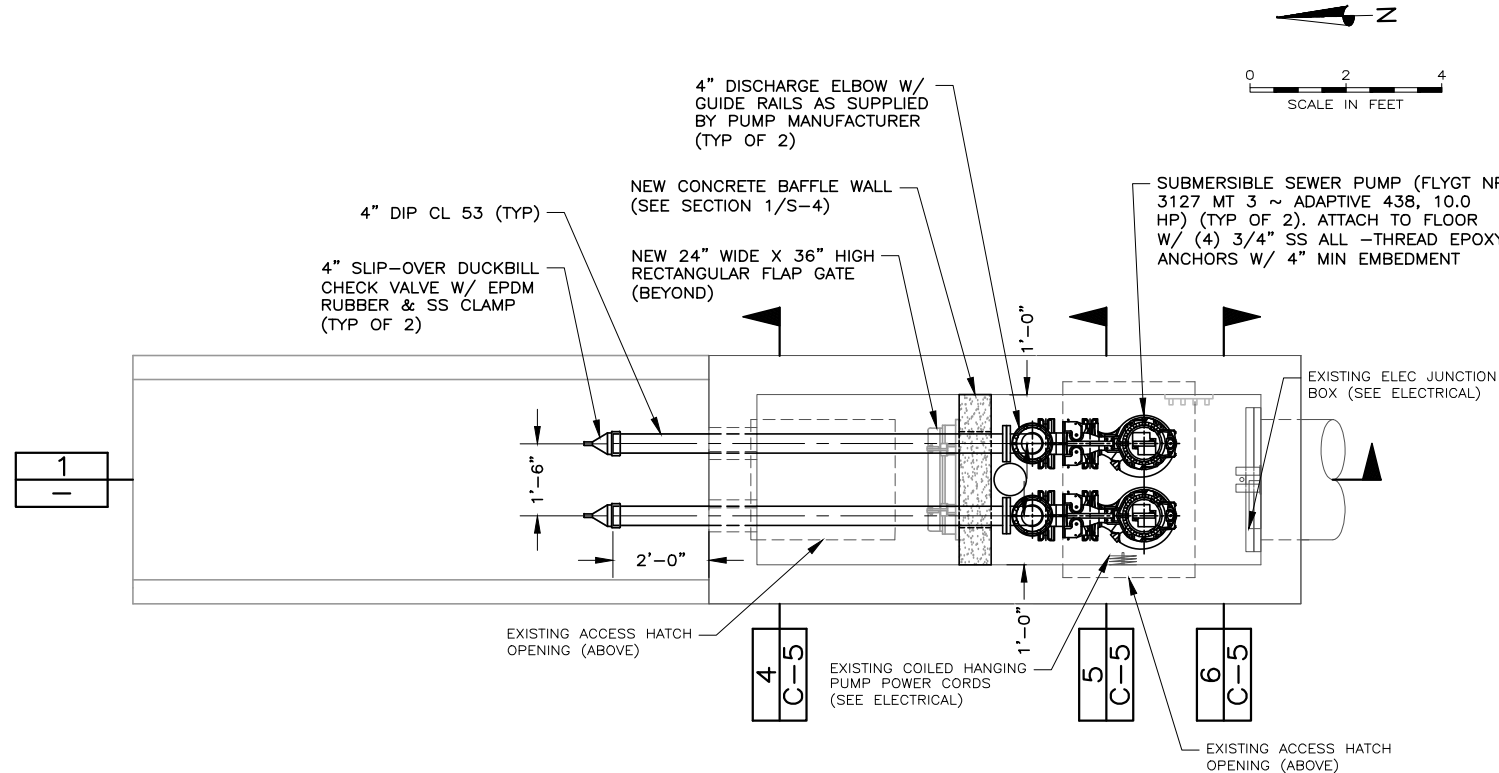
# STORM WATER PUMP STATIONS UPGRADES CIVIL JORDAN RIVER PS SITE PLAN

SHEET  
C-3  
126.60.100

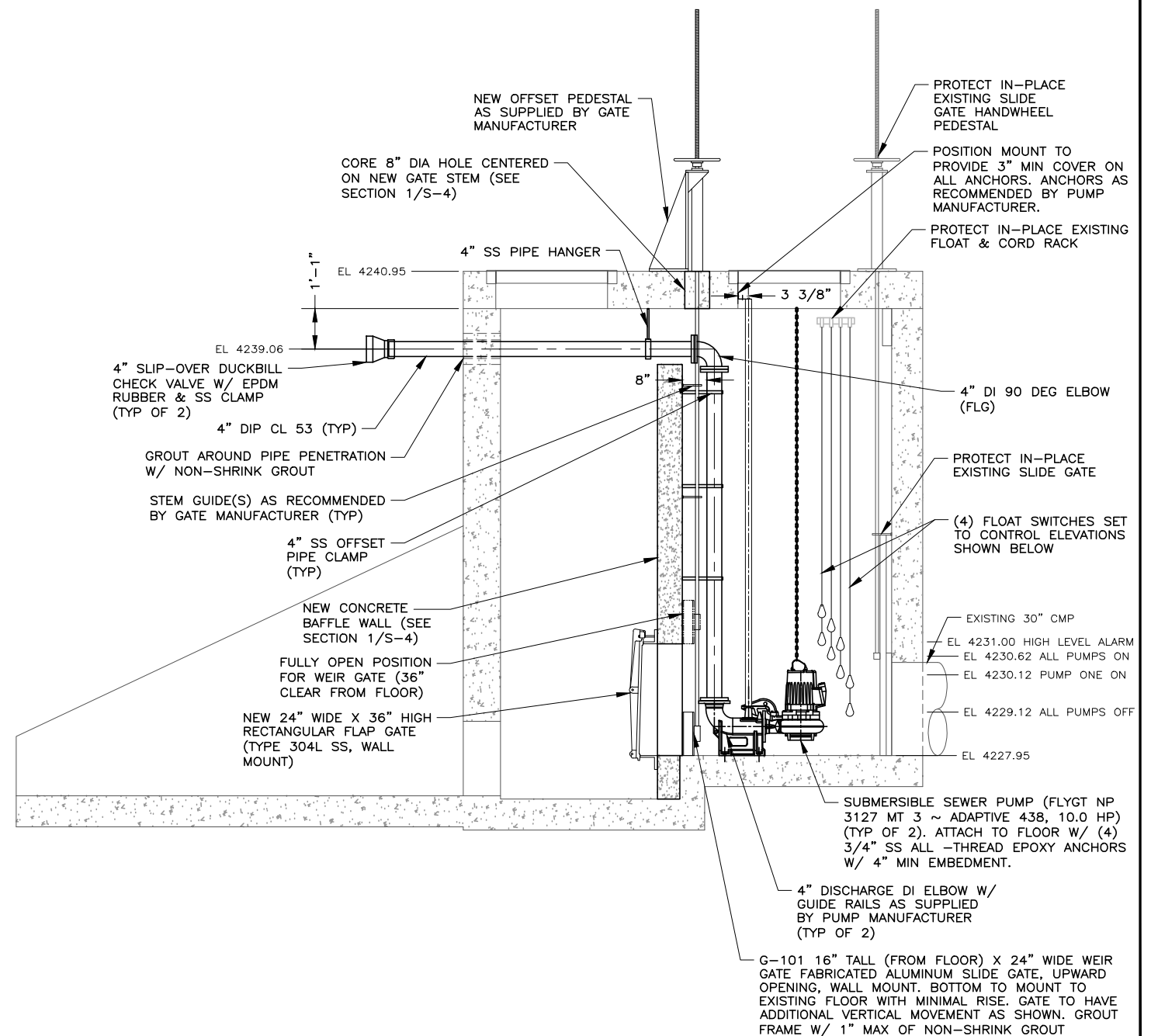
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FILE DATE: 8.21.2025 16:41:31 (MAJ)



ROOF DECK PLAN



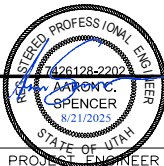
FLOOR PLAN



SECTION 1

GENERAL SHEET NOTES:

1. ALL NUTS, BOLTS AND WASHERS SHALL BE TYPE 304 STAINLESS STEEL.
2. COAT ALL DUCTILE IRON PIPE AND FITTINGS PER SPECIFICATION SECTION 09 90 00 - SYSTEM #7.



DESIGNED	ACS	2
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REVISIONS

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APVD.	

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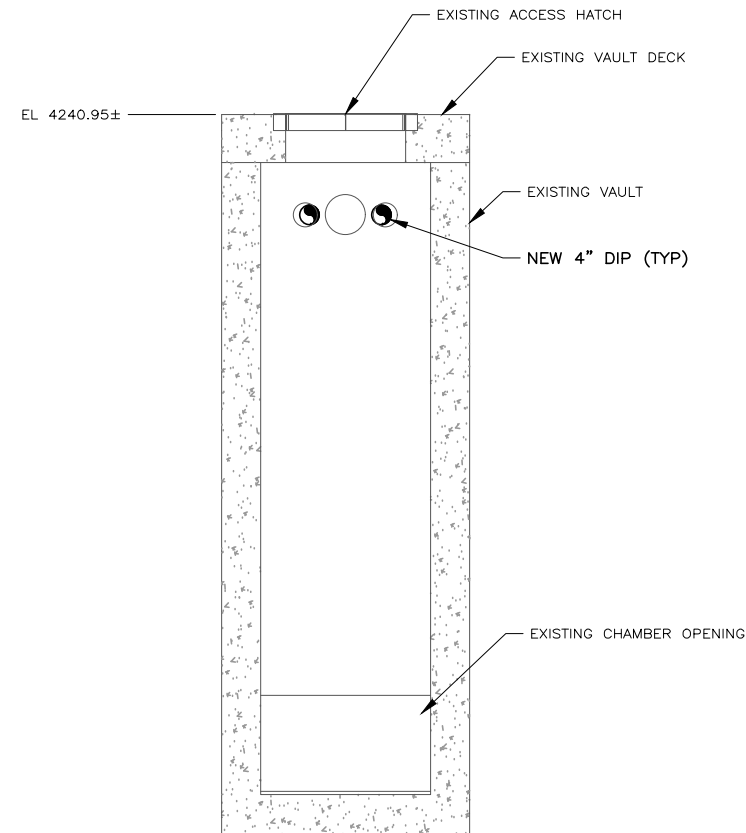


STORM WATER PUMP STATIONS UPGRADES  
CIVIL  
JORDAN RIVER PS PLANS & SECTION

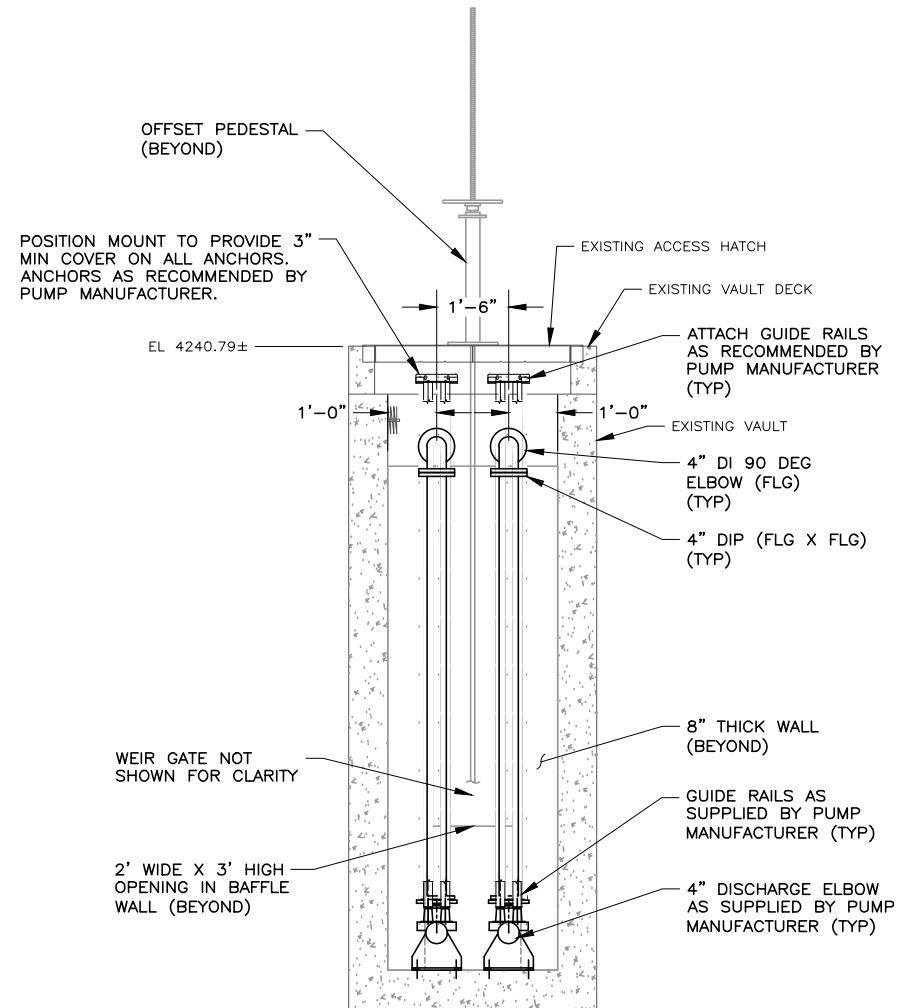
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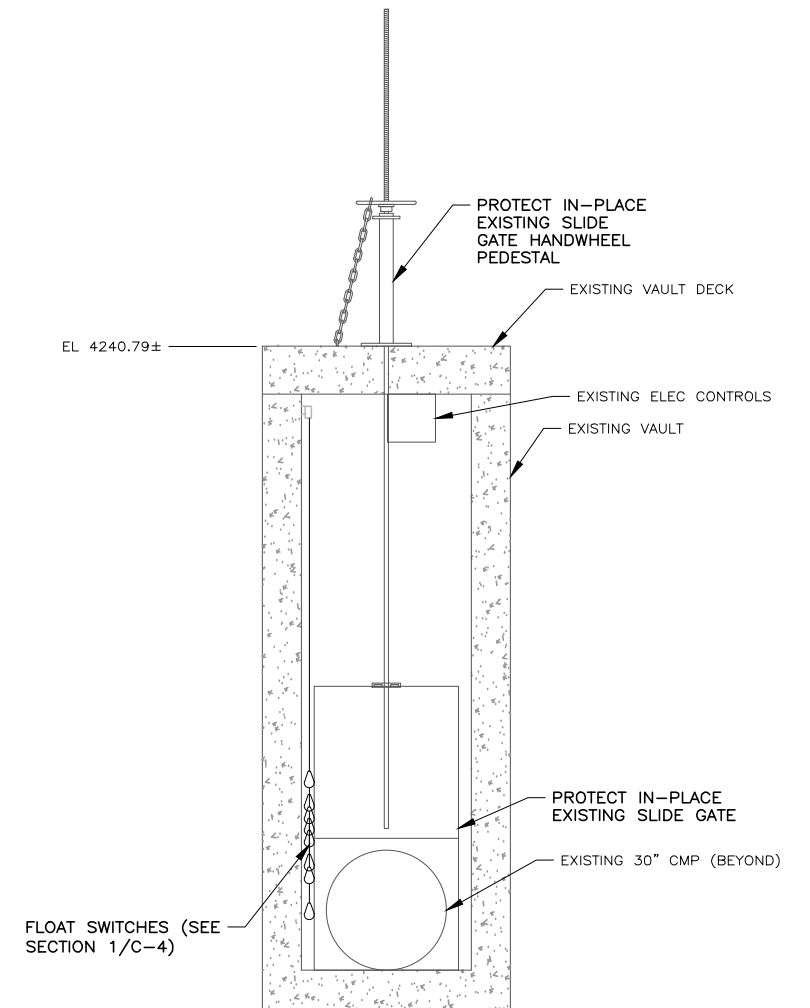
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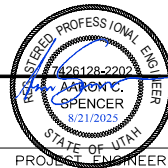
SECTION 4  
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SECTION 5  
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STORM WATER PUMP STATIONS UPGRADES  
CIVIL  
JORDAN RIVER PS SECTIONS

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FILE NAME: PROJECTS\126 -- SOUTH SALT LAKE CITY\60.100 -- STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS -- BLAIR ST & JORDAN RIVER SW PS\S-1 GENERAL STRUCTURAL NOTES.DWG  
FILE DATE: 8/21/2025 16:47:30 (MAJ)

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE SUFFICIENT SKILLED WORKMEN AND SUPERVISORS WHO SHALL BE PRESENT AT ALL TIMES DURING EXECUTION OF THE WORK. A PROJECT MANAGER, SHALL BE ASSIGNED BY CONTRACTOR, AND SHALL BE RESPONSIBLE FOR THE DAILY COORDINATION OF THE PROJECT AND SHALL MAINTAIN ALL REQUIRED DRAWINGS, SPECIFICATIONS, REPORTS, AND OTHER ITEMS FOR REVIEW AT THE SITE.
2. ALL CONSTRUCTION SHALL BE ACCORDING TO THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC). AS AMENDED BY THE STATE OF UTAH.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND SAFETY IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
4. CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS BOTH DURING AND AFTER CONSTRUCTION.

DESIGN CRITERIA

- |                                    |   |
|------------------------------------|---|
| 1. RISK CATEGORY:                  | IV  |
| 2. IMPORTANCE FACTOR, $I_s$ :      | 1.20  |
| 3. IMPORTANCE FACTOR, $I_e$ :      | 1.50  |
| 4. ROOF DEAD LOAD:                 | 60 PSF  |
| 5. GROUND SNOW LOAD ( $P_g$ ):     | 30 PSF  |
| 6. SOILS REPORT PROVIDED BY:       | NO SOILS REPORT PREPARED. VALUES ARE ASSUMED. |
| ALLOWABLE SOIL BEARING PRESSURE:   | 1500 PSF                                      |
| COEFFICIENT OF FRICTION ( $\mu$ ): | 0.35  |
| ACTIVE PRESSURE:                   | 60 PCF  |
| PASSIVE PRESSURE:                  | 225 PCF                                       |

STRUCTURAL NOTES:

REINFORCED CONCRETE:

1. ALL CONCRETE CONSTRUCTION, INCLUDING BENDING OF BARS, SHALL COMPLY WITH ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
2. UNLESS CALLED OUT OTHERWISE ON THE PLANS, MINIMUM REINFORCEMENT OF CONCRETE WORK SHALL BE:  
WALLS:  
8" THICK OR LESS - USE #5 @ 16" EW  
9" OR THICKER - USE #5 @ 12" EW, EF  
SLABS:  
8" THICK OR LESS - USE #5 @ 16" EW
3. ALL WALL REINFORCEMENT AT CORNERS OR JUNCTIONS OF WALLS SHALL BE CONTINUOUS, LAPPED, OR TERMINATED IN A STANDARD 90 DEGREE HOOK. LAP SPLICES SHALL CONFORM WITH NOTE 6.
4. UNLESS SHOWN OTHERWISE ALL BARS SHALL BE DOWELED. DOWELS SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS TO BE SPLICED TO THE DOWELS.
5. ALL REINFORCING BARS SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A-615, CURRENT REVISION. REINFORCING STEEL SHALL BE NEW AND FREE FROM RUST, OIL OR OTHER BOND INHIBITOR.
6. ALL CONTINUOUS REINFORCING BARS SHALL LAP AT LEAST 40 BAR DIAMETERS. SPLICES SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS. MINIMUM LAP SHALL BE 18 IN.
7. CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS:  
7.1. SURFACE NOT EXPOSED DIRECTLY TO THE GROUND, WATER OR WEATHER AFTER FORM REMOVAL:  
CONCRETE SLABS IN BUILDINGS - - - - 3/4"  
7.2. CONCRETE SLABS IN WATER BEARING SURFACES EXPOSED DIRECTLY TO THE GROUND, WATER OR WEATHER AFTER FORM REMOVAL:  
FOR #5 BARS OR SMALLER- - - - 1-1/2"  
FOR #6 BARS OR LARGER- - - - 2"  
7.3. CONCRETE PLACED DIRECTLY AGAINST GROUND - - - - 3"  
7.4. REINFORCEMENT SHALL BE PLACED WITHIN A TOLERANCE OF  $\pm 1/4$ " OF POSITION SPECIFIED.
8. CONCRETE CURING SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SOME CONCRETE WORK REQUIRES WATER CURING, AS MEMBRANE CURING IS NOT ALLOWED. THE CONTRACTOR IS WARNED THAT WATER CURING IS DIFFICULT AT TIMES DUE TO WIND AND DRY CONDITIONS. THE CONTRACTOR SHALL STUDY REQUIREMENTS AND SHALL FURNISH ADEQUATE SYSTEMS TO PROVIDE WATER CURING WHERE REQUIRED. TOP OF WALLS SHALL BE KEPT VISIBLY MOIST AT ALL TIMES AND SHALL BE FLOODED NOT LESS THAN THREE TIMES DAILY.  
A. FOR POURING CONCRETE DURING COLD WEATHER:  
1. FOLLOW RECOMMENDATIONS CONTAINED IN PUBLICATION ACI 306R  
2. "COLD-WEATHER CONCRETING," CURRENT REVISION.  
PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH WHICH COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES.  
WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40°F OR 4°C, UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50°F OR 10°C, AND NOT MORE THAN 80°F OR 27°C AT TIME OF PLACEMENT.

REINFORCED CONCRETE CONT.

4. CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT OF 6% +/- 1% BY VOLUME.
5. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS.
6. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE APPROVED IN THE MIX DESIGN.
7. COVER AND HEAT CONCRETE FOR A MINIMUM OF 7 DAYS AS RECOMMENDED BY ACI 306R, CURRENT REVISION.
- B. FOR POURING CONCRETE DURING HOT WEATHER:  
FOLLOW RECOMMENDATIONS CONTAINED IN PUBLICATION ACI 305R "HOT-WEATHER CONCRETING," CURRENT REVISION.  
PROTECT CONCRETE FROM FLASH CURING BY PROVIDING A WATER/MOISTURE CURE FOR 3 DAYS.  
A 4500 PSI (WITH A 6-1/2 BAG MIX) IS RECOMMENDED FOR THESE CONDITIONS.
9. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL CONCRETE HAS REACHED 85 PERCENT OF THE SPECIFIED STRENGTH AND THE CONNECTING SLABS AND BEAMS HAVE BEEN CAST AND HAVE REACHED 85 PERCENT OF THE SPECIFIED STRENGTH.
10. CONCRETE TO HAVE A MIN 28 DAY STRENGTH OF 4000 PSI.

SUBMITTALS:

1. THE FOLLOWING INFORMATION AND SUBMITTALS SHALL BE PROVIDED TO ENGINEER BEFORE FABRICATION AND/OR DELIVERY TO THE JOBSITE, NOT ALL MAY APPLY.  
A. CONCRETE MIX DESIGNS.  
B. CONCRETE REINFORCEMENT SHOP DRAWINGS.  
C. STRUCTURAL BACKFILL PIT LOCATION AND MATERIAL SPECIFICATION, IF USED ON SITE.  
D. STRUCTURAL STEEL SHOP DRAWINGS.  
E. OTHER SHOP DRAWINGS & SUBMITTALS AS DEEMED NECESSARY BY ENGINEER.

SOIL NOTES

1. NO KNOWN SOILS REPORT IS AVAILABLE FOR THIS SITE.
2. ALL ORGANIC MATERIALS, RUBBISH, UNSUITABLE FILL, TOPSOIL, ETC. SHALL BE REMOVED FROM BENEATH LOCATIONS OF PROPOSED FOOTINGS, CONCRETE SLABS AND ASPHALT PAVING.
3. SLABS SHALL BE PLACED ON COMPACTED GRANULAR BACKFILL COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-1557.
4. UNLESS OTHERWISE NOTED, STRUCTURAL BACKFILL SHALL CONFORM TO:  
A. IMPORTED GRANULAR MATERIAL SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES.  
B. SHALL COMPLY WITH SPECIFICATIONS FOR GRADATIONS.
5. ALL FREE WATER SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO PLACING CONCRETE.
6. CONTRACTOR SHALL REMOVE ALL UNSUITABLE FILL FROM UNDER ALL CONCRETE FLATWORK, PAVEMENT, BUILDINGS AND STRUCTURES, AND REPLACE WITH STRUCTURAL FILL COMPACTED TO 95% MAX DRY DENSITY PER ASTM D-1557.

ANCHOR NOTES:

1. ALL ANCHORS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. FOR BOTH MECHANICAL AND EPOXY TYPE ANCHORS THESE REQUIREMENTS INCLUDE, BUT IS NOT LIMITED TO:  
A. PROPER HOLE DIAMETER, DEPTH, EDGE DISTANCES, AND SPACING.  
B. PROPER HOLE PREPARATION AND CLEANOUT  
C. WEATHER REQUIREMENTS TO BE FOLLOWED, ESPECIALLY FOR COLD WEATHER APPLICATIONS.  
D. ALL STRUCTURAL ANCHORS TO COMPLY WITH THE CRACKED CONCRETE REQUIREMENTS ON THE CURRENT EDITION OF THE ACI 318.

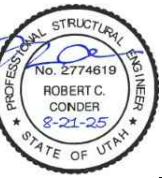
SEISMIC BRACKETS:

1. CONTRACTOR TO SUBMIT FOR REVIEW AND APPROVAL SEISMIC BRACKETS FOR HVAC, MECHANICAL AND ELECTRICAL EQUIPMENT TO MEET LOCAL CODES.

STRUCTURAL STEEL AND METAL FABRICATIONS:

1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS OF THE AISC" AND THE "AISC CODE OF STANDARD PRACTICE."
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:  
W-SHAPES A992  
MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC. A36  
SQUARE OR RECTANGULAR STEEL A500, GRADE B  
TUBING STEEL PIPE CLASS 53, GRADE B
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERRECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
4. ALL WELDS AND WELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF "THE AMERICAN WELDING SOCIETY, USING ELECTRODES AS SPECIFIED THEREIN." WELDS TO BE MADE WITH E - 70XX ELECTRODES UNO.
5. BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:  

UNLESS SHOWN OTHERWISE	A325-N
SLIP CRITICAL	A325-SC
ANCHOR BOLTS (AB)	
STAINLESS STEEL	F593, AISI TYPE 316, CONDITION CW
STEEL	F1554, GR 36
GALVANIZED STEEL	F1554, GR 36/A153
MACHINE BOLTS (MB)	A307
6. ITEMS TO EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
7. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF ENGINEER.



PROJECT ENGINEER

DESIGNED RCC  
DRAFTED MAJ  
CHECKED RCC  
DATE AUGUST 2025

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REVISIONS

BY  
APVD.

SCALE  
NONE



STORM WATER PUMP STATIONS UPGRADES  
STRUCTURAL  
GENERAL STRUCTURAL NOTES

SHEET  
S-1  
126.60.100



FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\S-2 BLAIR STREET PS PLAN & SECTIONS.DWG  
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PROJECT ENGINEER

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DATE AUGUST 2025

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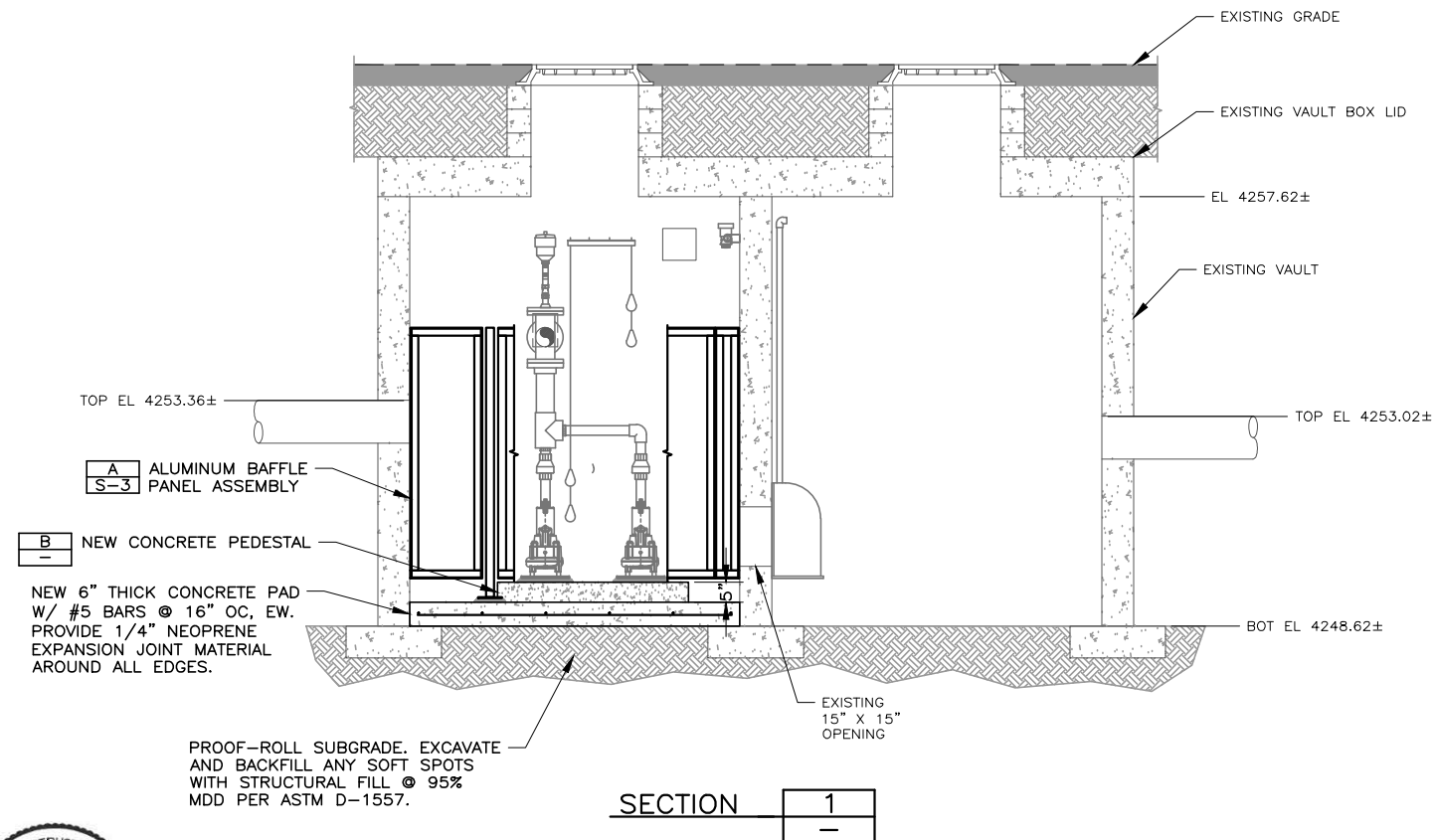
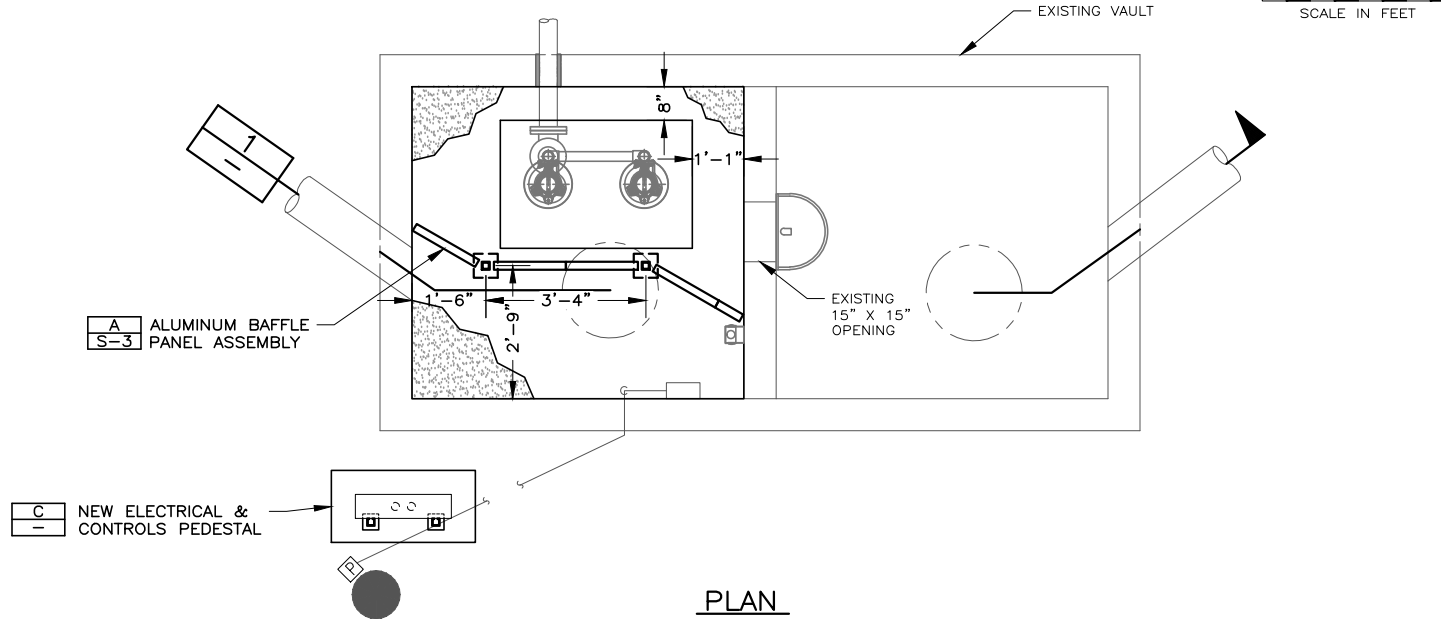
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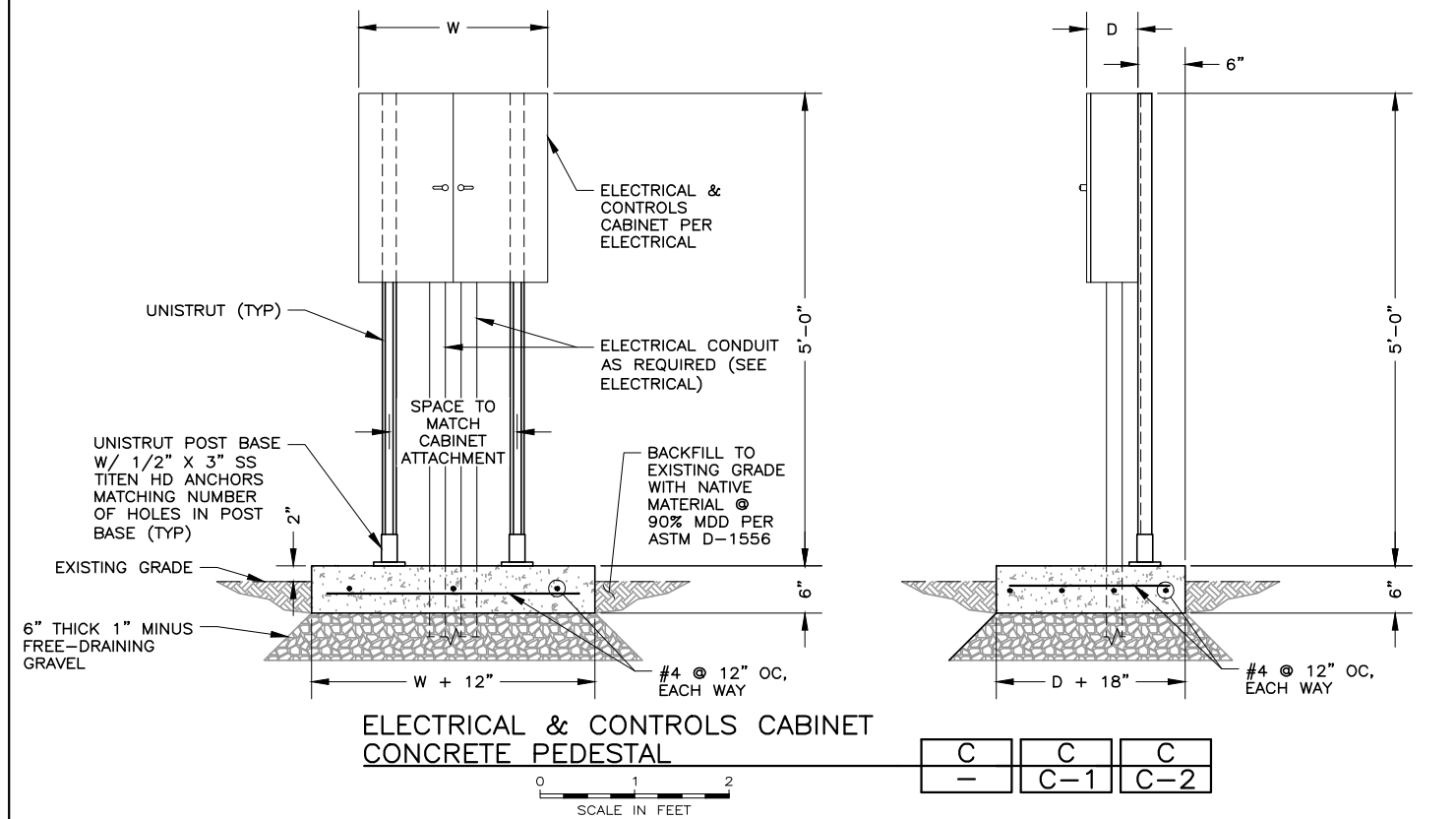
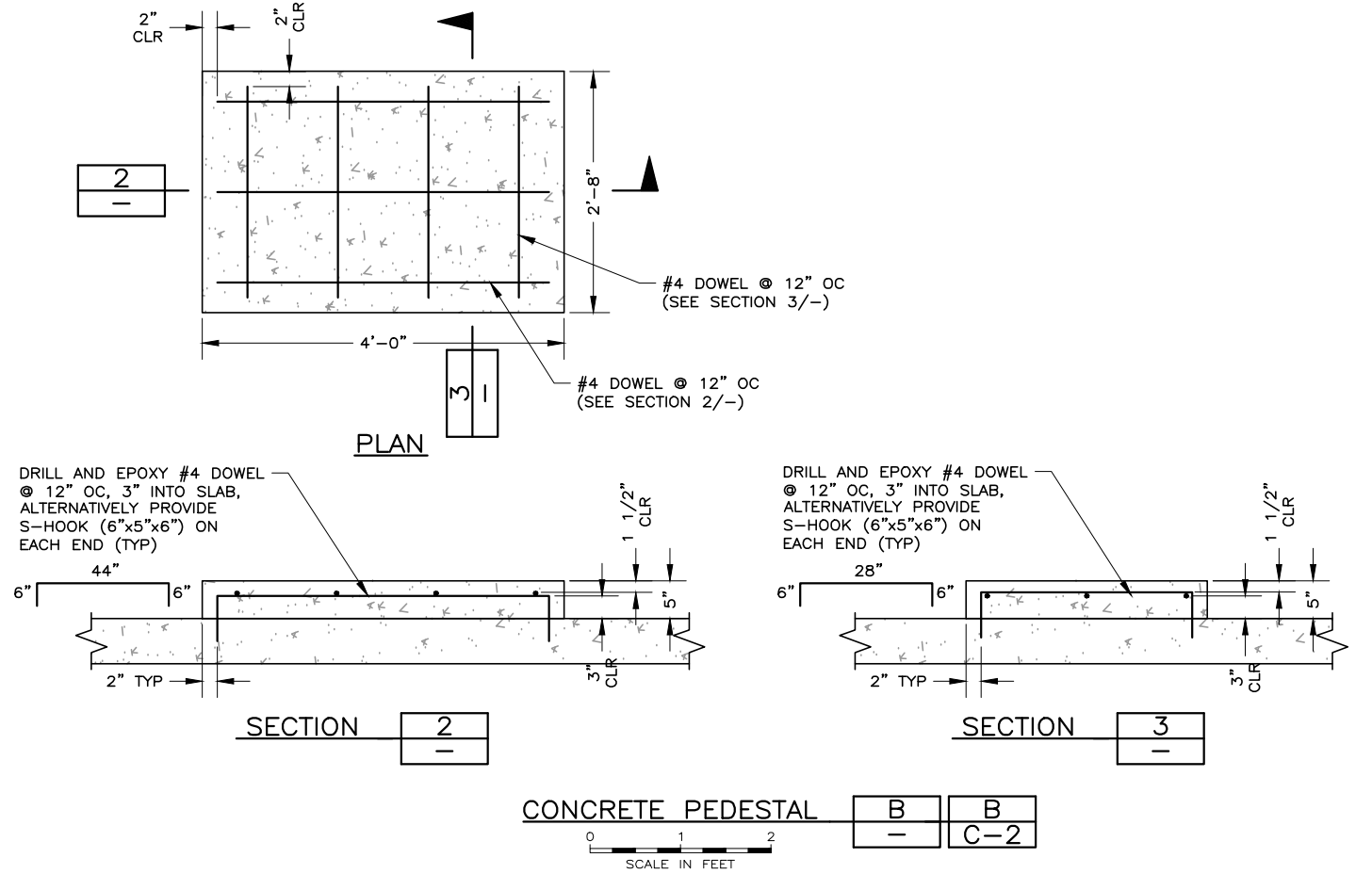
STORM WATER PUMP STATIONS UPGRADES  
STRUCTURAL  
BLAIR STREET PS PLAN & SECTIONS

SHEET  
S-2  
126.60.100



BLAIR STREET PS

A  
C-2



GENERAL SHEET NOTE:  
1. ALL REBAR SHALL BE EPOXY COATED.

FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\S-3 ALUMINUM BAFFLE PANEL ASSEMBLY.DWG  
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PROJECT ENGINEER

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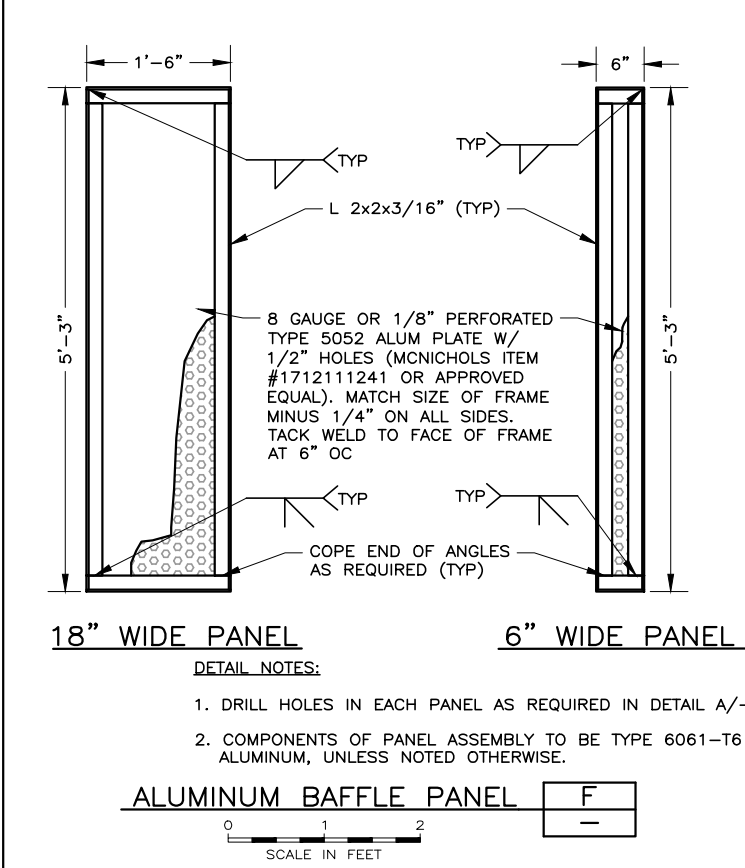
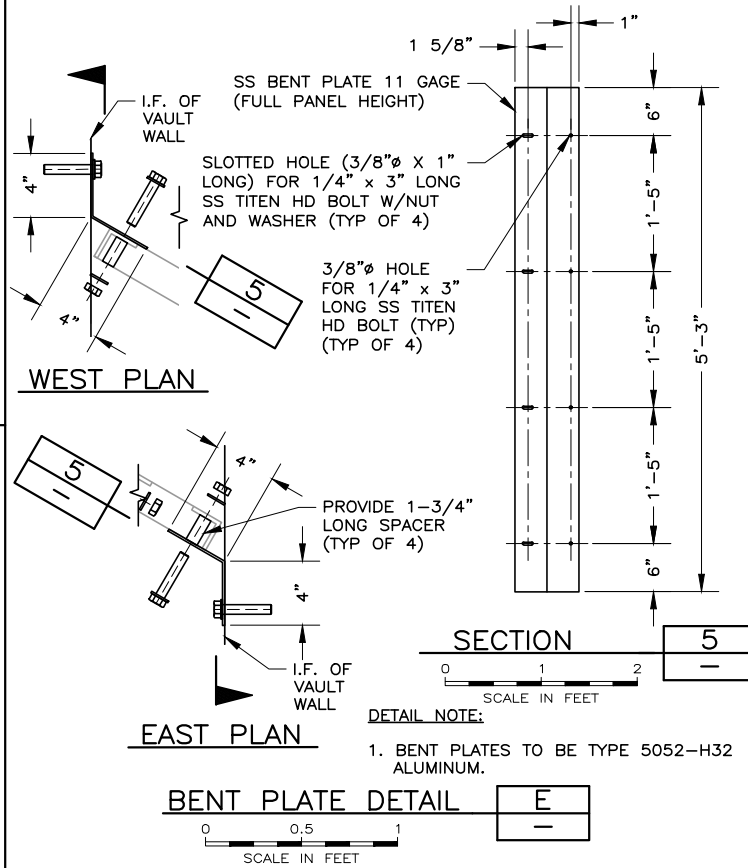
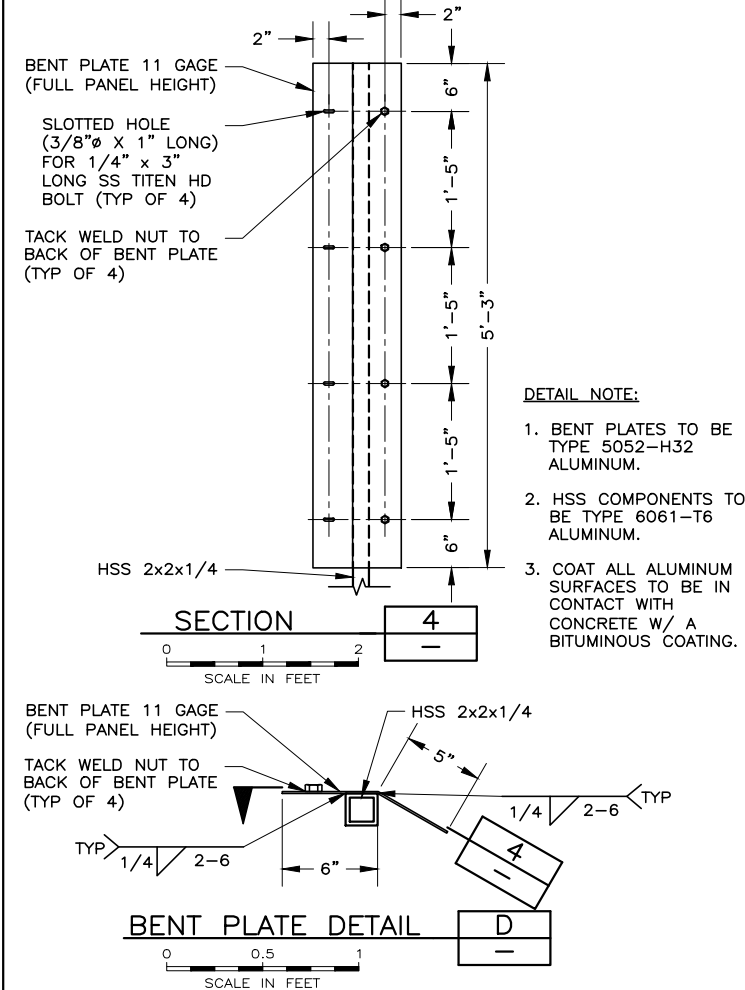
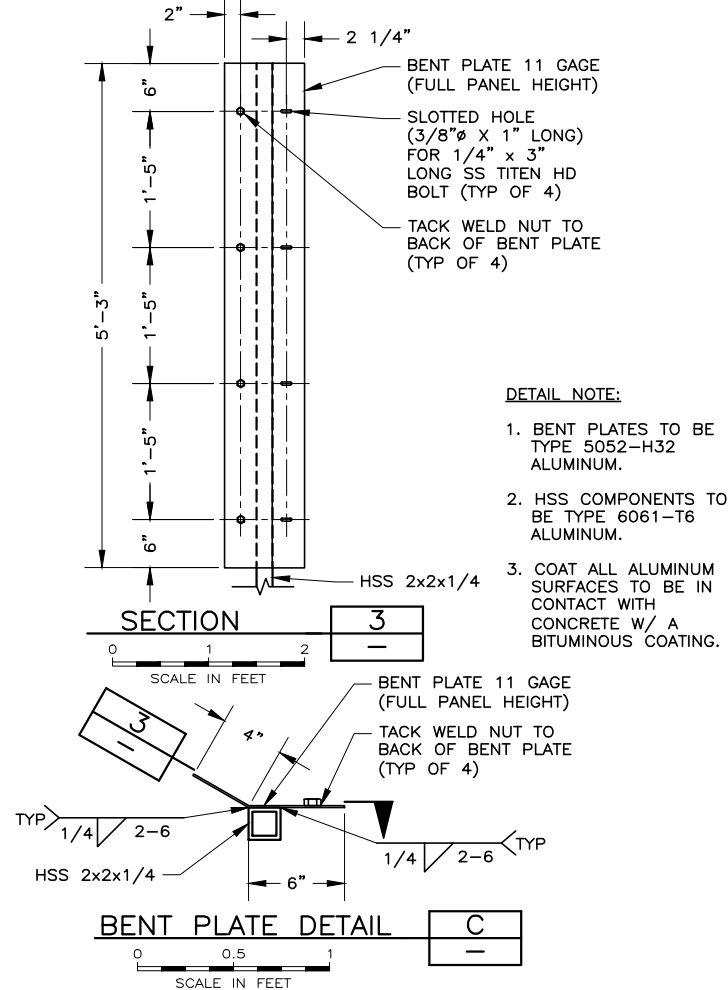
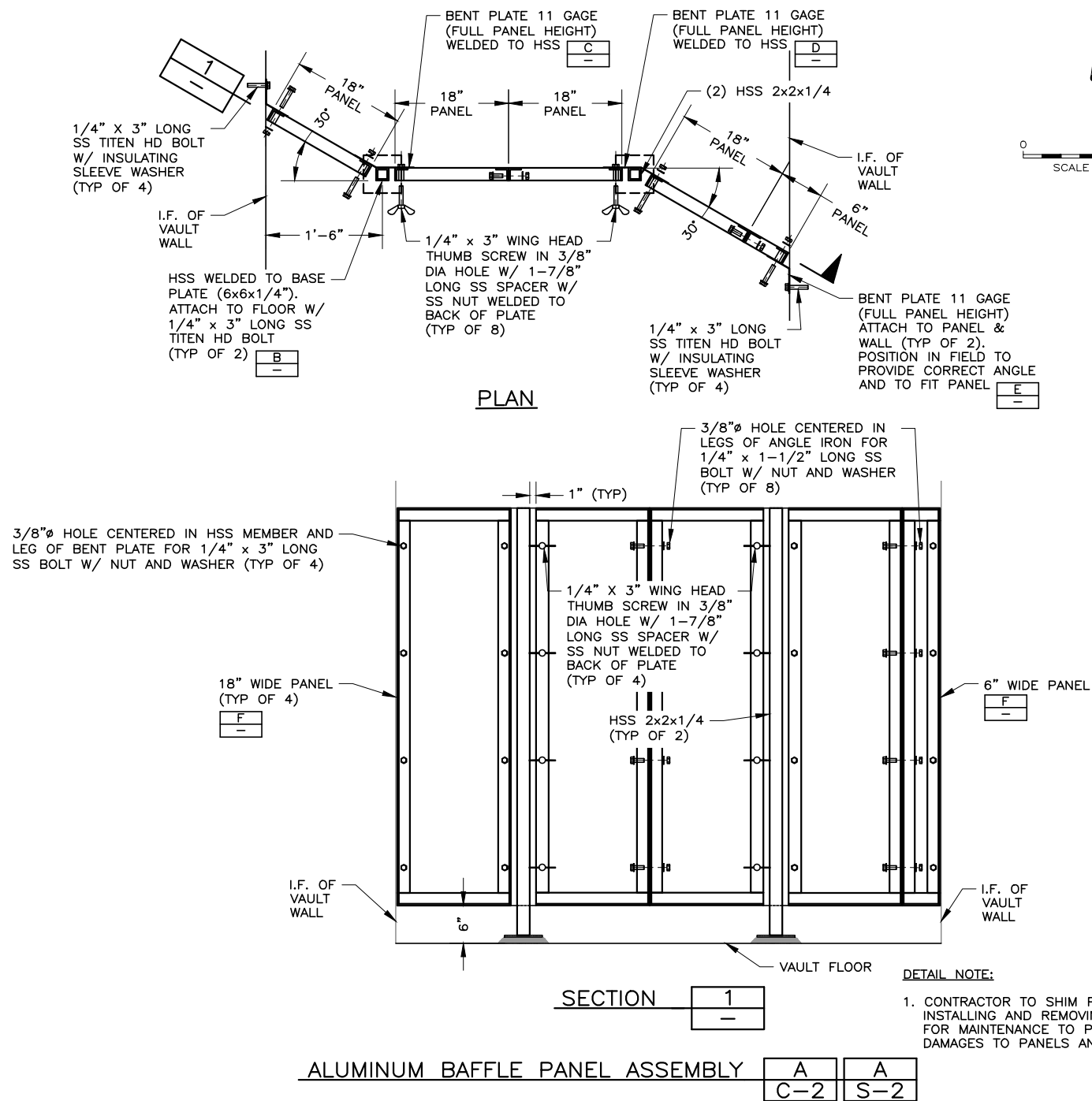
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AS SHOWN



STORM WATER PUMP STATIONS UPGRADES  
STRUCTURAL  
ALUMINUM BAFFLE PANEL ASSEMBLY

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FILE NAME: PROJECTS\126 - SOUTH SALT LAKE CITY\60.100 - STORM WATER PUMP STATION UPGRADES\CAD\DESIGN DWGS - BLAIR ST & JORDAN RIVER SW PS\S-4 JORDAN RIVER PS PLAN & SECTIONS.DWG  
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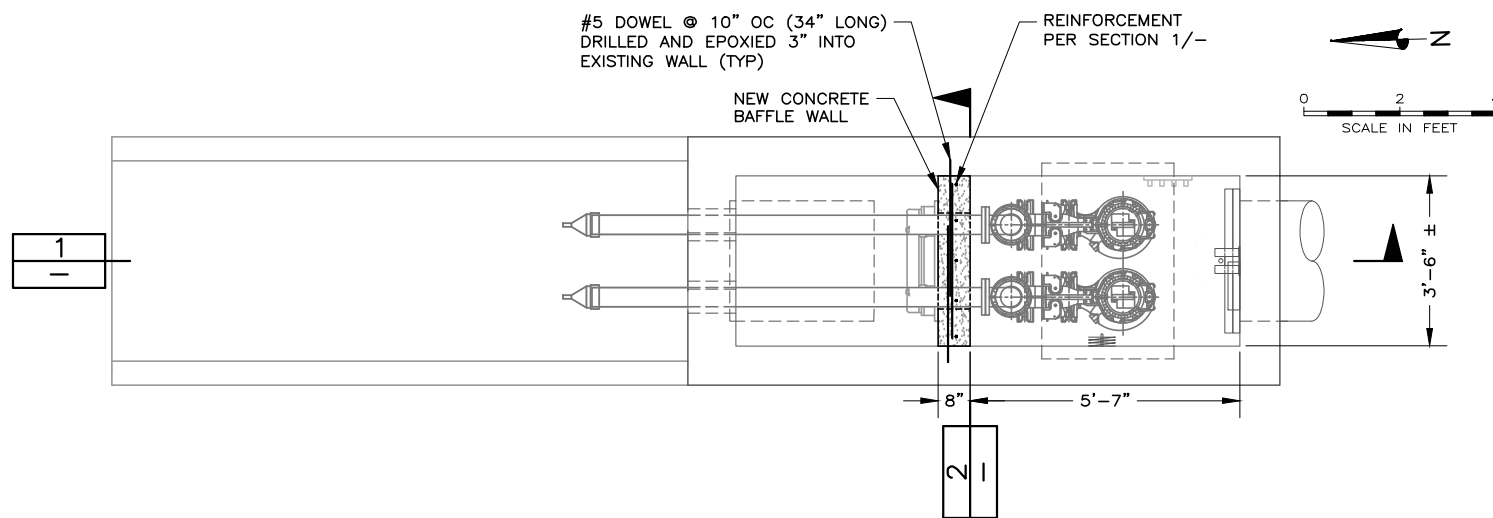
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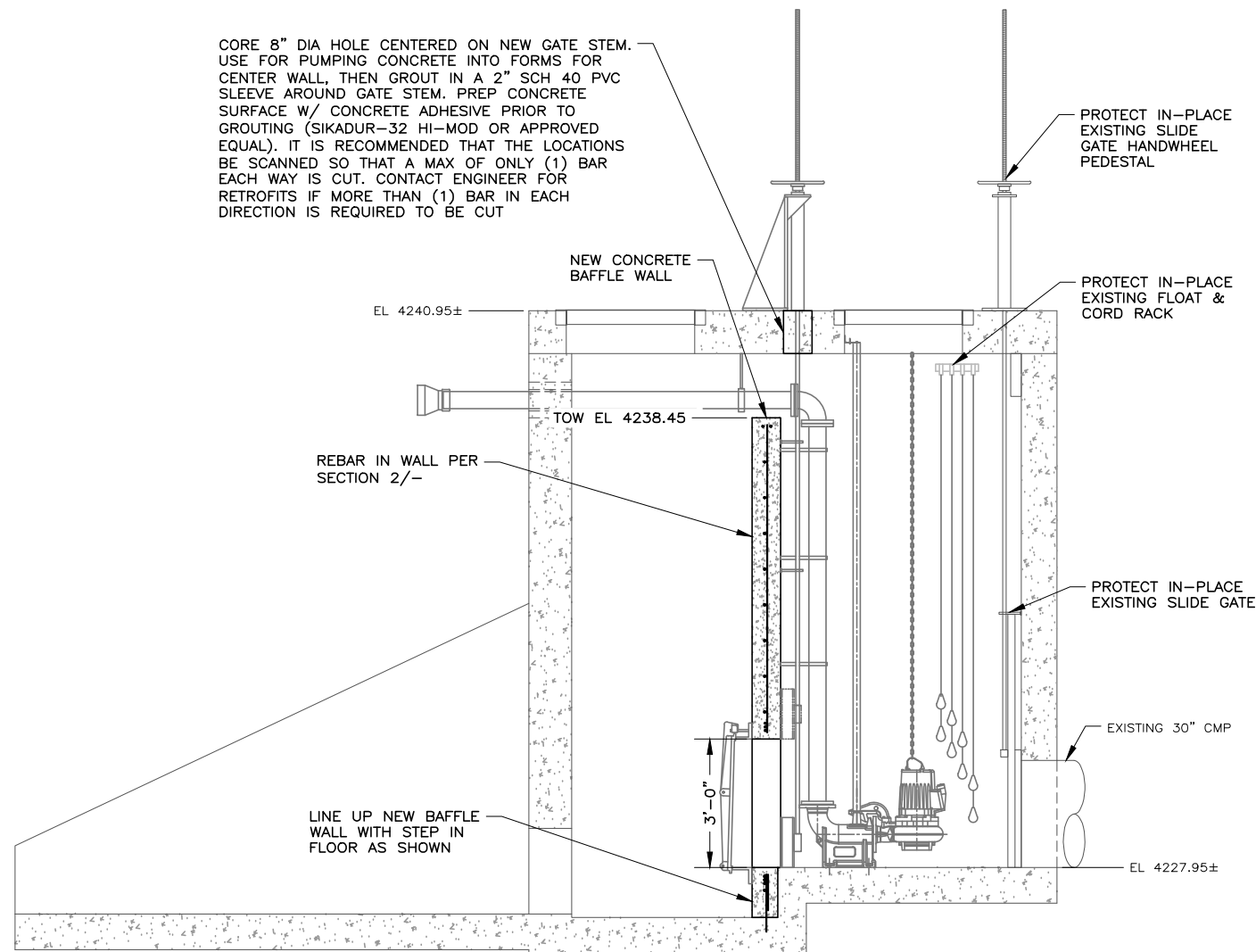


STORM WATER PUMP STATIONS UPGRADES  
STRUCTURAL  
JORDAN RIVER PS PLAN & SECTIONS

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126.60.100

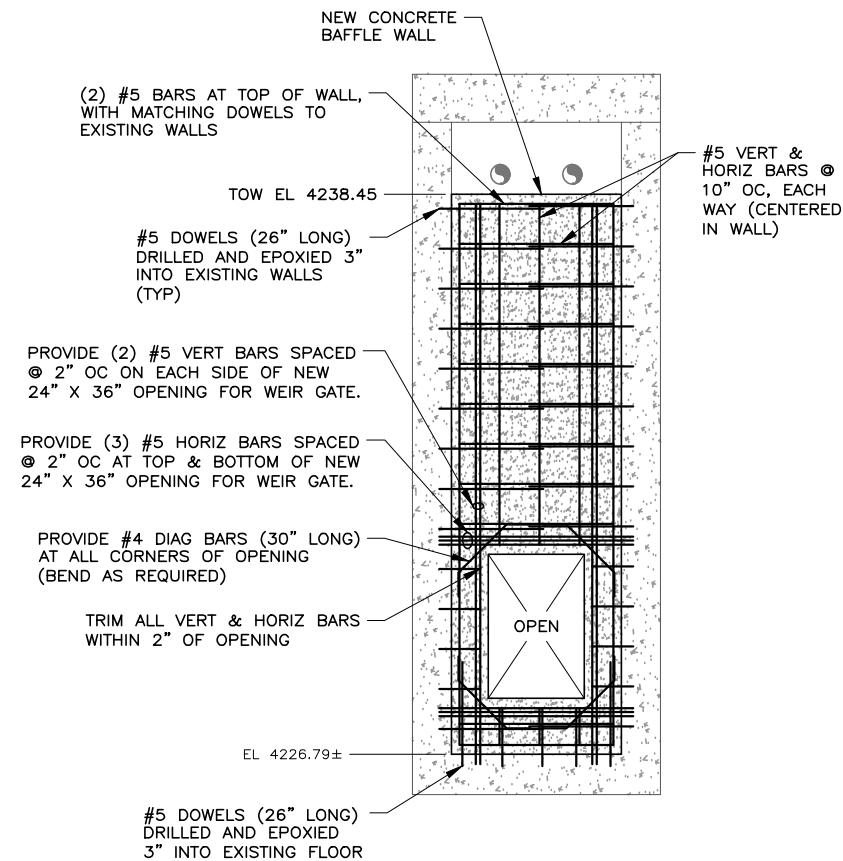


PLAN



SECTION

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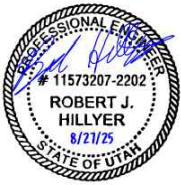
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DESIGNED	RJH	3		
DRAFTED	KJB	2		
CHECKED	BT	1		
DATE	JULY 2025	NO.	DATE	

NO. DATE

REVISIONS

BY APVD.

SCALE

NONE



STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
SYMBOL LEGEND

SHEET

E-001

126.60.100

## SCHEMATICS & DIAGRAMS

SYMBOL	DESCRIPTION
	TERMINAL LUG OR STRIP
	TRANSFORMER
	GROUND CONNECTION
	BOND TO METALLIC WATER PIPE
	BOND TO METALLIC WATER PIPE
	BOND TO BUILDING STEEL
	GENERATOR

## LIGHTING

SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE, SEE FIXTURE SCHEDULE.
	EMERGENCY LIGHTING, SEE FIXTURE SCHEDULE.
F#	LIGHTING FIXTURE TYPE - SEE FIXTURE SCHEDULE.
	SINGLE POLE SWITCH
	3 WAY SWITCH
	WALL MOUNTED MOTION SWITCH - DUAL TECHNOLOGY
	MOTOR RATED TOGGLE SWITCH
	DIGITAL OVERRIDE SWITCH
	SINGLE POLE SWITCH WITH PILOT LIGHT
	RECESSED CEILING MOUNTED SPEAKER BY OTHERS
	WALL MOUNTED MOTION SENSOR
	CEILING MOUNTED MOTION SENSOR
	CEILING-MOUNTED EXIT LIGHT, SEE FIXTURE SCHEDULE
	WALL-MOUNTED EXIT LIGHT, SEE FIXTURE SCHEDULE
	RECESSED CAN LIGHT, SEE FIXTURE SCHEDULE

## CONTROLS & INSTRUMENTS

SYMBOL	DESCRIPTION
	ANALYZER ELEMENT
	ANALYZING INDICATING TRANSMITTER
	COMBUSTIBLE GAS DETECTOR
	CONDUCTIVITY INDICATING TRANSMITTER
	FLOW ELEMENT
	FLOW INDICATING TRANSMITTER
	FLOW SWITCH
	LEVEL ELEMENT
	LEVEL INDICATING TRANSMITTER
	LEVEL SWITCH
	LEVEL TRANSMITTER
	MOISTURE ELEMENT
	MOTOR OPERATED VALVE OR GATE
	OVER TORQUE SWITCH
	PRESSURE INDICATING TRANSMITTER
	PRESSURE SWITCH
	SOLENOID OPERATED VALVE
	TEMPERATURE ELEMENT
	TEMPERATURE SWITCH
	TEMPERATURE TRANSMITTER
	LIMIT OR POSITION SWITCH

## SCHEMATICS & DIAGRAMS

SYMBOL	DESCRIPTION
	EMERGENCY STOP PUSH BUTTON (MAINTAINED)
	NORMALLY CLOSED PUSH BUTTON
	LOCKOUT STOP PUSH BUTTON
	NORMALLY OPEN PUSH BUTTON
	CONTACT - TIME DELAY T.C. = NORMALLY OPEN W/TIME DELAY CLOSING. T.O. - T.C. = NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING. T.C.-T.O. = NORMALLY OPEN W/TIME DELAY CLOSING AND TIME DELAY OPENING AFTER DEENERGIZATION.
	CONTACT - TIME DELAY T.C. = NORMALLY CLOSED WITH TIME DELAY OPENING. T.O.-T.C. = NORMALLY CLOSED WITH TIME DELAY OPENING AND TIME DELAY CLOSING AFTER DEENERGIZATION. I.O.-T.C. = NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING.
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	LIMIT SWITCH
	PRESSURE SWITCH LOW
	PRESSURE SWITCH HIGH
	FLOW SWITCH
	LEVEL FLOAT SWITCH
	TEMPERATURE SWITCH
	DISCONNECT SWITCH SHOWN WITH RATING AND NUMBER OF POLES.
	FUSEHOLDER OR FUSEBLOCK
	CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR, SHOWN WITH TRIP RATING AND NUMBER OF POLES.
	3 POSITION SELECTOR SWITCH HAND - OFF - AUTO, POSITION LEGEND: X=CLOSED O=OPEN
	2 POSITION SELECTOR SWITCH, POSITION LEGEND: X=CLOSED O=OPEN
	TIMER RELAY CONTACT INSTANTANEOUS CLOSE TIME DELAY OPEN.
	TIMER RELAY CONTACT NORMALLY OPEN TIME DELAY CLOSE.
	FULL VOLTAGE NONREVERSING (FVNR) MOTOR STARTER OR CONTACTOR NUMBER DESIGNATES NEMA SIZE.
	RTU, PLC, OR RIO CONTACT
	UTILITY METER
	BEACON ALARM LIGHT. LETTER INDICATES COLOR: R=RED, A=AMBER, B=BLUE, G=GREEN
	PILOT LIGHT. LETTER INDICATES COLOR: R=RED, A=AMBER, B=BLUE, G=GREEN
	RELAY
	TIME DELAY RELAY
	ALARM RELAY
	ELAPSED TIME METER
	MOTOR STARTER OR CONTACTOR COIL
	ELECTRONIC OVERLOAD RELAY
	SOLID STATE REDUCED VOLTAGE STARTER
	VARIABLE FREQUENCY DRIVE
	HARMONIC FILTER
	CURRENT TRANSFORMER
	THERMAL OVERLOAD RELAY
	LTC CONNECTION
	MC CONNECTION
	MOTOR, X = HORSEPOWER
	DEVICE LOCATED AT REMOTE LOCATION.
	FUSE
	NODE OR CONNECTION

## POWER

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
	DUPLEX RECEPTACLE, RECESSED CEILING MOUNTED
	QUADRAPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
	QUADRAPLEX RECEPTACLE, RECESSED CEILING MOUNTED
	ISOLATED GROUND TYPE DUPLEX RECEPTACLE
	SPECIAL PURPOSE OR WELDING OUTLET.
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE.
	WEATHERPROOF CONVENIENCE OUTLET
	FLUSH FLOOR DEVICE BOX
	HOME RUN TO PANEL - INDICATING 2 #12, #12 GND, 3/4" CONDUIT OR AS SHOWN.
	HOME RUN TO PANEL - INDICATING NUMBER OF CONDUCTORS - #12 OR AS SHOWN.
	HOME RUN TO PANEL SHOWING BRANCH CIRCUIT NUMBERS.
	HATCH MARKS IN CONDUIT RUN DENOTES NUMBER OF CONDUCTORS IN CONDUIT. LONG HATCH MARK DENOTES GROUND CONDUCTOR. SIZE OF CONDUCTORS TO BE #12 AWG CONDUCTORS IN CONDUIT UNLESS NOTED OTHERWISE. UNMARKED CONDUITS SHALL BE 3/4" WITH 3 #12.
	DENOTES EXISTING EQUIPMENT OR DEVICES
	THERMOSTAT
	MOTOR, X = HORSE POWER
	CEILING EXHAUST FAN
	JUNCTION BOX
	ELECTRICAL PANEL, POWER OR LIGHTING
	METER BASE
	COMBINATION MOTOR STARTER, SEE SPECS
	DISCONNECT SWITCH.  VOLTAGE RATING NEMA ENCLOSURE FUSE (NF-NO FUSE) POLES SIZE (AMPS)
+0'-0"	THIS NOTATION ADJACENT TO WALL OUTLET SYMBOL DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET DEVICE. IF NOT NOTED, THE MOUNTING HEIGHT TO CENTER SHALL BE AS DETAILED OR SPECIFIED.
	MANUAL MOTOR STARTER
	MANUAL MOTOR STARTER WITH OVERLOADS
	DAMPER MOTOR
F#	LIGHTING FIXTURE TYPE - SEE FIXTURE SCHEDULE.
	SINGLE POLE SWITCH
	3 WAY SWITCH
	4 WAY SWITCH
	COMMUNICATION/DATA JACK. CONDUIT TO ABOVE CEILING, OWNER TO RUN WIRING.
	DATA OR CATHODE RAY TUBE (CRT) TERMINAL OUTLET. +1'-6". (SINGLE, DOUBLE)
	TELEPHONE JACK OUTLET. 1'-6". (SINGLE, DOUBLE, QUAD)

## FEEDER DESIGNATION LOGIC

6	1	P: 2 N: 3 G: 4	5
KEY TO CONDUCTOR SIZE & TYPE			
14 = #14 AWG COPPER	6 = #6 AWG COPPER	1/0 = 1/0 AWG COPPER	250 = 250 KCMIL COPPER
12 = #12 AWG COPPER	4 = #4 AWG COPPER	2/0 = 2/0 AWG COPPER	350 = 350 KCMIL COPPER
10 = #10 AWG COPPER	2 = #2 AWG COPPER	3/0 = 3/0 AWG COPPER	500 = 500 KCMIL COPPER
8 = #8 AWG COPPER		4/0 = 4/0 AWG COPPER	750 = 750 KCMIL COPPER

## ABBREVIATIONS

A	AMPERE	N	NEUTRAL
AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRICAL CODE
AI	ANALOG INPUT	NECA	NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION
AIC	AMPS INTERRUPTING CAPACITY	NOTC	NORMALLY OPEN TIMED CLOSED
AFD	ADJUSTABLE FREQUENCY DRIVES	NPW	NON-POTABLE WATER
AO	ANALOG OUTPUT	NS	NITROGEN SUPPLY
AS	AIR SUPPLY	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	NTU	TURBIDITY
BC	BYPASS CONTACTOR	O.C.	ON CENTER
C	CONDUIT	OF	OVERFLOW
CB	CIRCUIT BREAKER	OIT	OPERATOR INTERFACE TERMINAL
CL2	CHLORINE	OL	OVERLOAD
CON	CONTACTOR	OO	ON/OFF (MAINTAINED)
CPM	CUSTOMER POWER MONITORING	OR	OFF-REMOTE
CPT	CONTROL POWER TRANSFORMER	P	PHASE OR POLE
CU	COPPER, BARE	PB	PULL BOX
CV	CONTROL VALVE	PCP	PROCESS CONTROL PANEL
DCS	DISTRIBUTED CONTROL SYSTEM	PF	PHAS/POWER FAILURE RELAY
DI	DISCRETE INPUT	PLC	PROGRAMMABLE LOGIC CONTROLLER
DO	DISCRETE OUTPUT	PLI	PLANT INFLUENT
DV/DI	DIFFERENTIAL VOLTAGE/TIME DRAWING	PKG	PACKAGE
ELR	END OF LINE REGISTER	PMP	PUMP
ETM	ELAPSED TIME METER	PNL	PANEL
EOL	ELECTRONIC OVERLOAD	PO	PULSE OUTPUT
ES	EMERGENCY STOP	PPG	POUNDS PER GALLON
EXIST	EXISTING	PPH	POUNDS PER HOUR
FA	FOUL AIR	PPM	PARTS PER MILLION
FC	FAIL CLOSED	PR	PAIR
FE	FLOW ELEMENT	PRES	PRESSURE
FLA	FULL LOAD AMPS	PS	PRESSURE SWITCH
FS	FLOW SWITCH	PSH	PRESSURE SWITCH, HIGH
FVNR	FULL VOLTAGE NON-REVERSING	PSI	POUNDS PER SQUARE INCH
FW	FINISHED WATER	PV	PROCESS VARIABLE
G	GROUND	RAS	RETURN ACTIVATED SLUDGE
GES	GROUNDING ELECTRODE SYSTEM	RW	RAW WATER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RCL	REMOTE I/O
GFP	GROUND FAULT PROTECTION	RF	RADIO FREQUENCY
GND	GROUND	RIO	REMOTE INPUT/OUTPUT
GPD	GALLONS PER DAY	RS	RAW SEWAGE
GPH	GALLONS PER HOUR	RSP	RAW SEWAGE PUMP
GPM	GALLONS PER MINUTE	RST	RESET
GRS	GALVANIZED RIGID STEEL	RTD	RESISTANCE TEMPERATURE DETECTOR
H, HI	HIGH	RTU	REMOTE TELEMETRY UNIT
H2S	HYDROGEN SULFIDE	RWT	REFLECTED WAVE TRAP
HMI	HUMAN MACHINE INTERFACE	SEQ	SERVICE ENTRANCE EQUIPMENT
HOA	HAND-OFF-AUTO	SES	SERVICE ENTRANCE SECTION
HOR	HAND-OFF-REMOTE	SLC	SINGLE LOOP CONTROLLER
I	CURRENT	SLOS	START-LOCK-OFF-STOP
ICR	INSTRUMENTATION CABLE	SMC	SUBMERSIBLE MANUFACTURER
ICR	INTERMITTENT CYCLE REACTOR		
IO	INPUT/OUTPUT	S02	SULFUR DIOXIDE
ISC	SHORT CIRCUIT CURRENT	SP	SET POINT
ISR	INTRINSICALLY SAFE RELAY	SPC	SPARE CONDUIT
JB	JUNCTION BOX	SPR	SPARE
		SS	START/STOP
		SSS	SOLID STATE STARTER (SOFT START)
L, LO	LOW	ST	SHUNT TRIP
LAN	LOCAL AREA NETWORK	TC	TELEPHONE CABLE
LC	LOOP CONTROLLER	TDOE	TIME DELAY ON ENERGIZE
LCL	LEVEL CONTROL, LOW	TS	TEMPERATURE SWITCH
LCP	LOCAL CONTROL PANEL	TSP	TEMPERATURE SWITCH
LOS	LOCK-OUT-STOP	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
LRA	LOCAL REMOTE		
LS	LEVEL SWITCH	TYP	TYPICAL
LTC	LIQUID TIGHT FLEXIBLE CONDUIT	UG	UNDERGROUND
M	MOTOR	V	VOLT
MA	MANUAL/AUTO, MILLIAMPS	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W	WATT, WIRE
MC	MANUFACTURER'S CABLE	WAS	WASTE ACTIVATED SLUDGE
MCB	MAIN CIRCUIT BREAKER	WP	WEATHERPROOF
MCC	MOTOR CONTROL CENTER		
MCP	MOTOR CIRCUIT PROTECTOR	XFMR	TRANSFORMER
MFR(S)	MANUFACTURER(S)	XMTR	TRANSMITTER
MGD	MILLION GALLONS PER DAY	ZS	POSITION SWITCH
MGL	MILLIGRAMS PER LITER		
MH	MANHOLE		
MIN	MINIMUM		
ML	MIXED LIQUOR		
MOV	MOTOR OPERATED VALVE		
MTU	MASTER TELEMETRY UNIT		

## ELECTRICAL LINETYPES

SYMBOL	DESCRIPTION
	EXPOSED CONDUIT
	UNDERGROUND CONDUIT
	BARE COPPER GROUND CONDUCTOR
	EXISTING EXPOSED CONDUIT
	EXISTING UNDERGROUND CONDUIT
	CAPPED UNDERGROUND CONDUIT OR STUBBUP
	NEW ELECTRICAL EQUIPMENT
	DETAIL VIEW OR MATCHING
	FUTURE
	CONDUIT DROP
	CONDUIT RISE




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FILE NAME:  
FILE DATE:

PANEL JORDAN RIVER																		
									BUS AMPS:		125							
VOLTAGE:									120/240 V 1Ø 3W		MAIN BREAKER AMPS		125					
ENCLOSURE:									NEMA 3R		BREAKER RATING %		80%					
CIRCUIT BREAKER TYPE:									BOLT-ON		MOUNTING:		SURFACE					
INTERRUPTING CAPACITY:									10 KAIC		COVER TYPE:		DOOR-IN-DOOR					
									LOCATION:		JORDAN RIVER							
BRANCH CIRCUIT BREAKER				CONNECTION	DESCRIPTION		PHASE			DESCRIPTION		CONNECTION		BRANCH CIRCUIT BREAKER				
NOTES	#	AMP	P.	LOAD (VA)								L1		L2	LOAD (VA)	P.	AMP	#
	1	60	2		5040	PUMP 1		6040			CONTROLLER		1000	1	20	2		
	3	--	--		5040	-----				5220	RECEPTACLE		180	1	20	4		
	5	60	2		5040	PUMP 2		5040			SPARE			1	20	6		
	7	--	--		5040	-----				5040	SPARE			1	20	8		
	9	20	1			SPARE		0			SPARE			1	20	10		
	11	20	1			SPARE				0	SPARE			1	20	12		
						PHASE SUBTOTALS (VA)		11080		10260								
						PHASE TOTALS (KVA)		11.1		10.3								
						PHASE TOTALS @ 120V (AMPS)		92.3		85.5								
NOTES:																		
G				PROVIDE WITH INTEGRAL SURGE PROTECTOR														
1																		
2																		
3																		

1. INSTALL GROUND RODS. SEE ONE-LINE DIAGRAM.
2. WP GFCI. RUN (2) #12, (1) #12 GND IN 3/4" CONDUIT TO 20A / 1P METERMAIN BREAKER
3. NEW ELECTRICAL CONTROLS ENCLOSURE. MOTOR CONTACTORS, AND RTU WITHIN ENCLOSURE. RUN (2) #12, (1) #12 GND IN 3/4" CONDUIT TO 20A / 1P METERMAIN BREAKER FOR CONTROLLER.
4. POUR CONCRETE PAD OVER THE EXISTING CONDUIT. ENSURE THE EXISTING CONDUIT IS EXPOSED THROUGH THE NEW CONCRETE PAD AT ITS CURRENT LOCATION. INSTALL UNISTRUT FRAME IN THE CONCRETE TO SUPPORT THE ENCLOSURE AND PROVIDE MOUNTING FOR THE ANTENNA. ROUTE EXISTING CONDUIT TO THE ENCLOSURE. SEE UNISTRUT SUPPORT DETAIL AND UNISTRUT DETAIL IN CIVIL SHEETS.

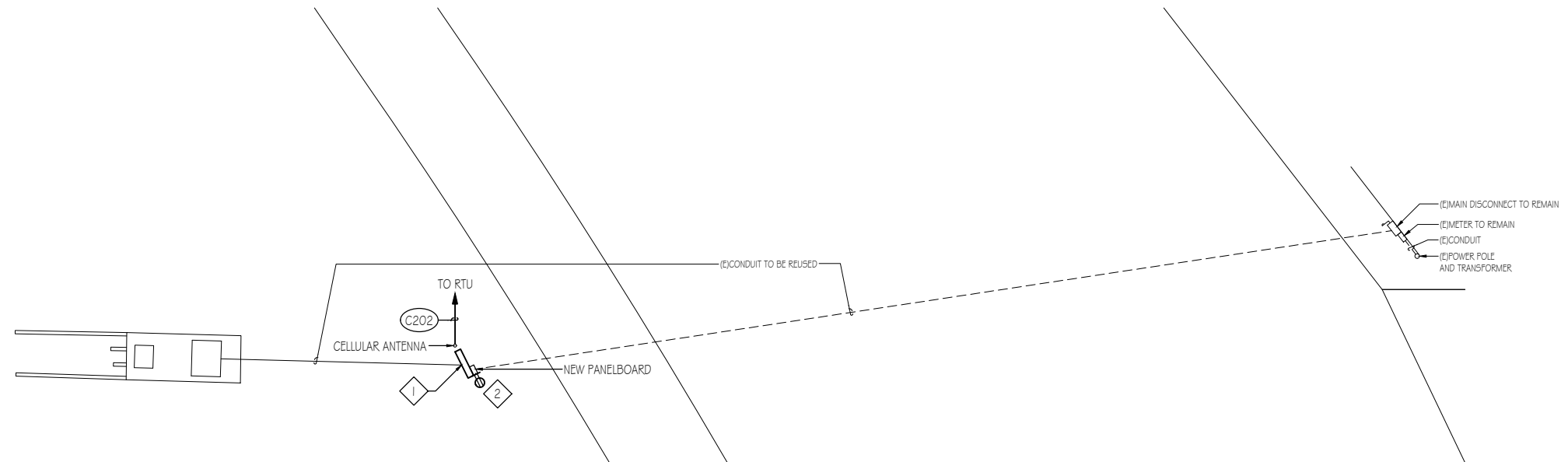


		DESIGNED	RJH	3				SCALE  AS SHOWN		STORM WATER PUMP STATIONS UPGRADES ELECTRICAL BLAIR STREET ELECTRICAL SITE PLANS	SHEET
		DRAFTED	KJB	2							E-101
		CHECKED	BT	1							
		DATE	JULY 2025	NO.	DATE	BY	APVD.				126.60.100
PROJECT ENGINEER											



1 NEW ELECTRICAL CONTROLS ENCLOSURE. VFD'S, AND RTU WITHIN ENCLOSURE. RUN (2) #12, (1) #12 GND IN 3/4" CONDUIT TO 20A / 1P BREAKER FOR CONTROLLER.

2 WP GFCI. RUN (2) #12, (1) #12 GND IN 3/4" CONDUIT TO 20A / 1P BREAKER.



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



**HANSEN  
ALLER  
& LUCE<sub>INC</sub>**  
ENGINEERS

PROJECT ENGINEER

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DRAFTED	KJB	2								
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STORM WATER PUMP STATIONS UPGRADES	E
ELECTRICAL	
JORDAN RIVER ELECTRICAL SITE PLANS	1:

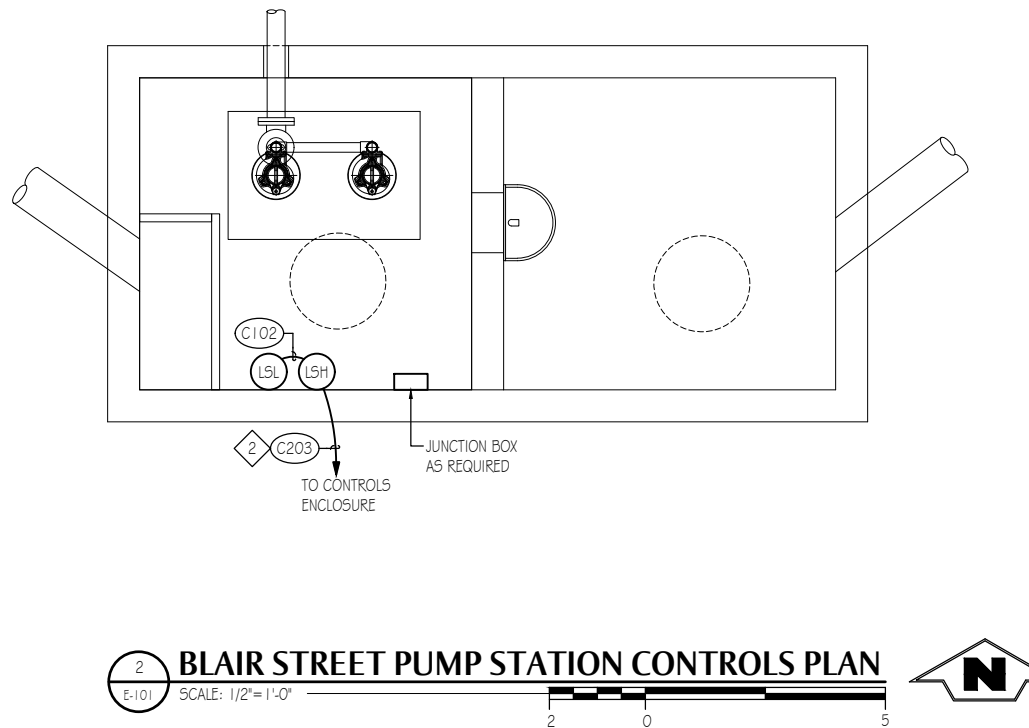
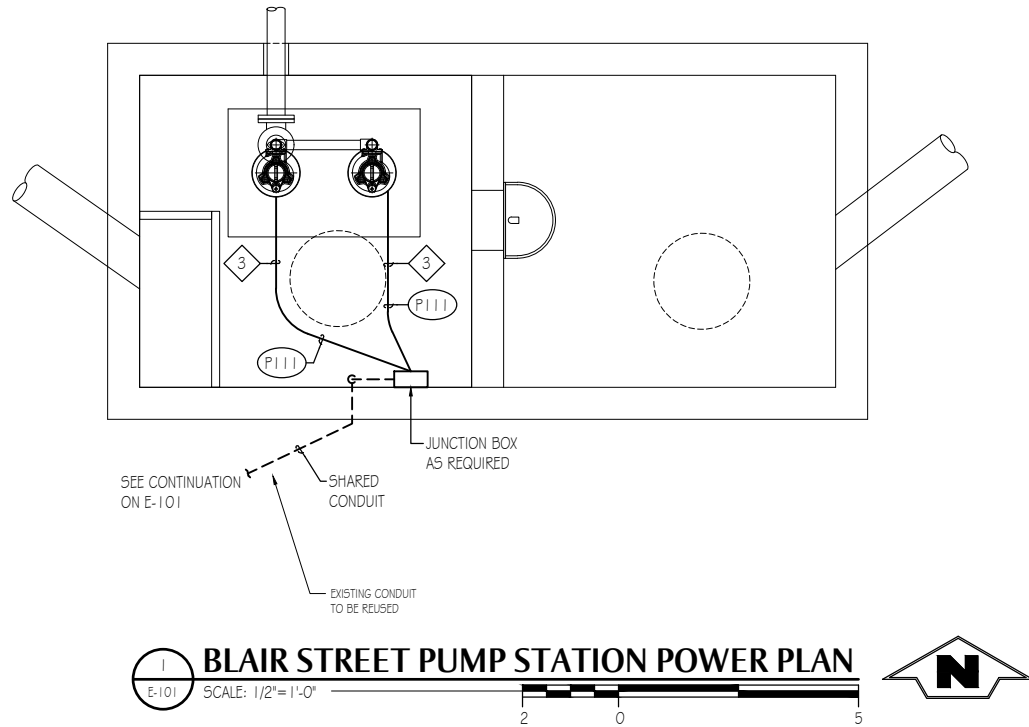
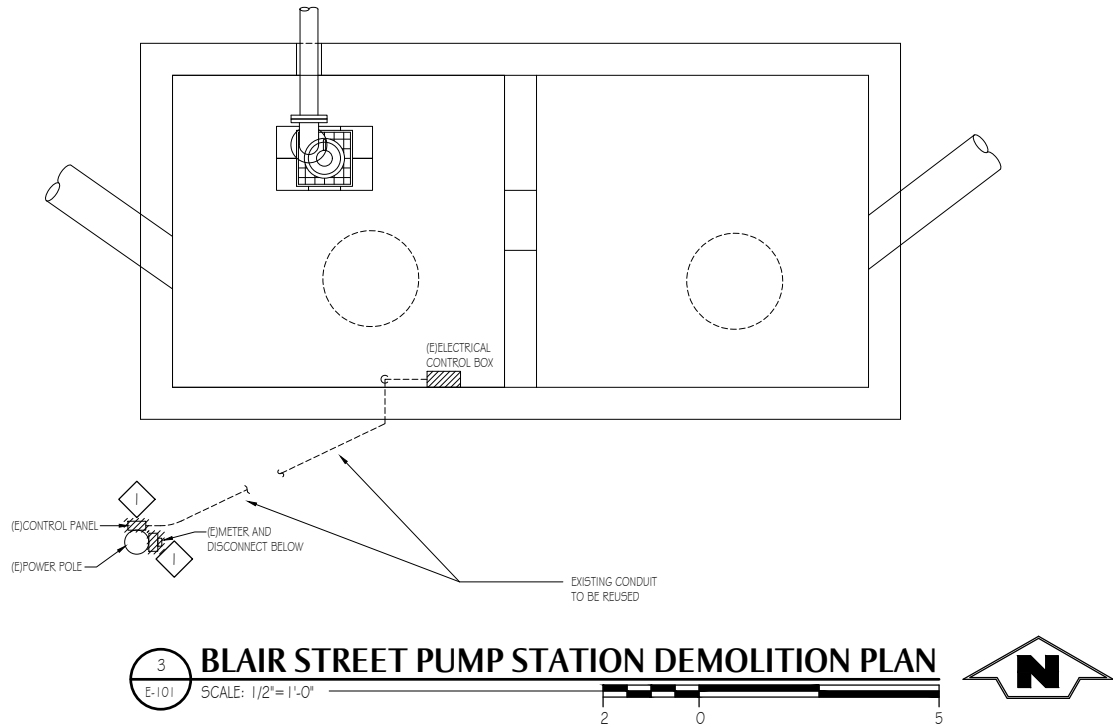
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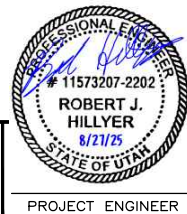
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FILE NAME:  
FILE DATE:



## DRAWING NOTES

- 1 REMOVE EXISTING ELECTRICAL BOX. SEE REMODEL DRAWING.
- 2 SHARED CONDUIT WITH POWER CONDUCTORS.
- 3 SUPPORT PUMP CORD TO CEILING OR WALL OF VAULT.



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DATE JULY 2025

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DATE

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SALT LAKE**

STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
BLAIR STREET PUMP STATION PLANS

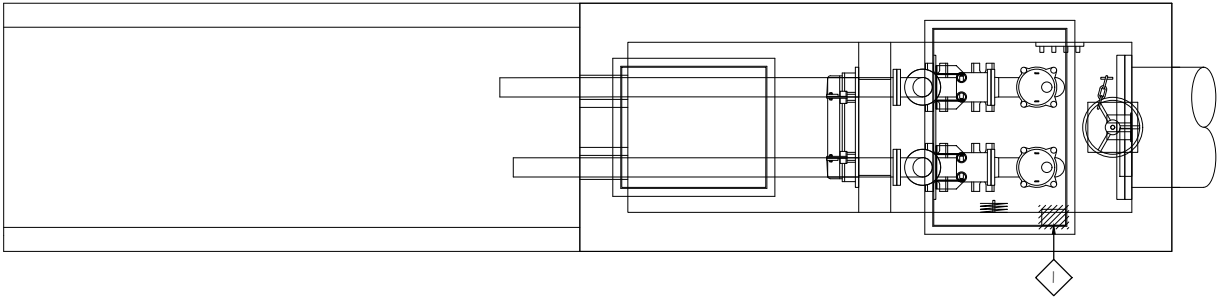
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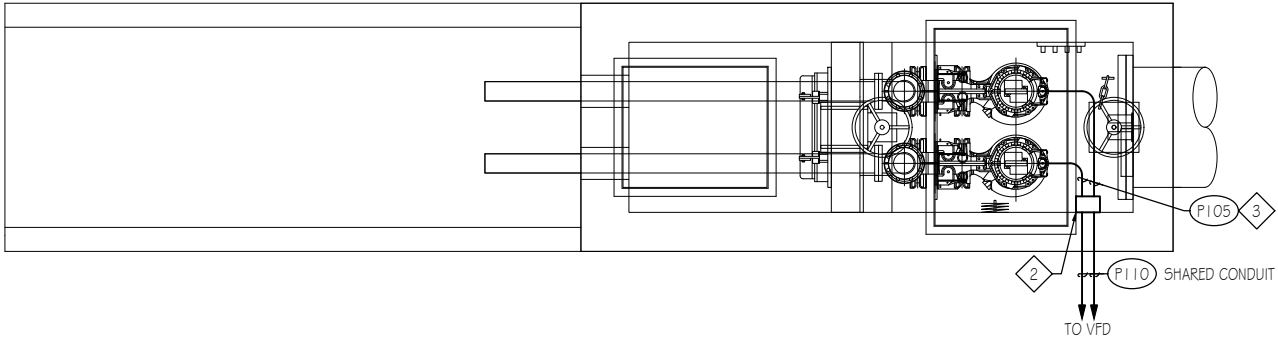
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FILE DATE:

DRAWING NOTES

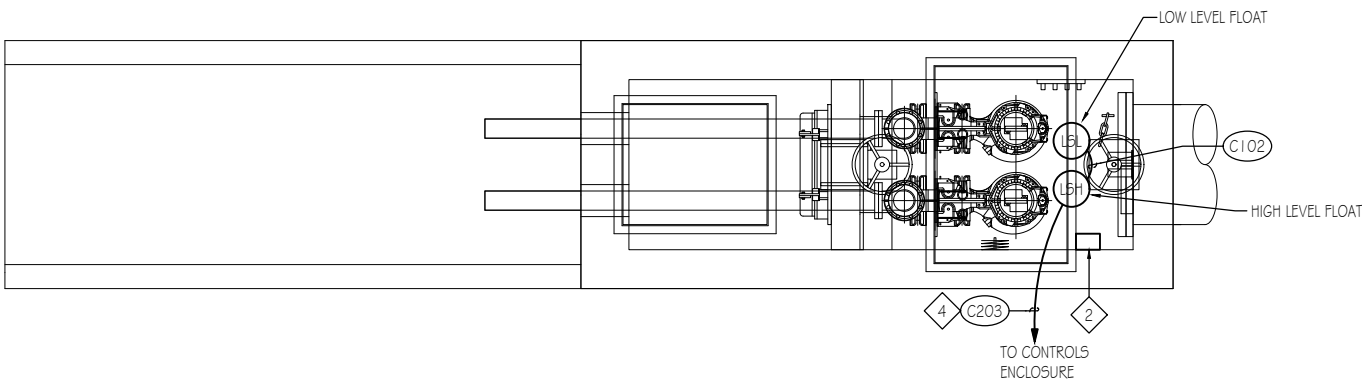
- 1 REMOVE EXISTING ELECTRICAL BOX. SEE REMODEL DRAWING.  
2 NEW ELECTRICAL JUNCTION BOX FOR PUMP MOTOR CONNECTIONS AND CONTROLS AS REQUIRED.  
3 SUPPORT PUMP CORD TO CEILING OR WALL OF VAULT.  
4 SHARED CONDUIT WITH POWER CONDUCTORS.



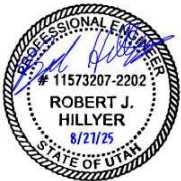
3 JORDAN RIVER PUMP STATION DEMOLITION PLAN  
E-102 SCALE: 1/2"=1'-0"



1 JORDAN RIVER PUMP STATION POWER PLAN  
E-102 SCALE: 1/2"=1'-0"



2 JORDAN RIVER PUMP STATION CONTROLS PLAN  
E-102 SCALE: 1/2"=1'-0"



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DATE

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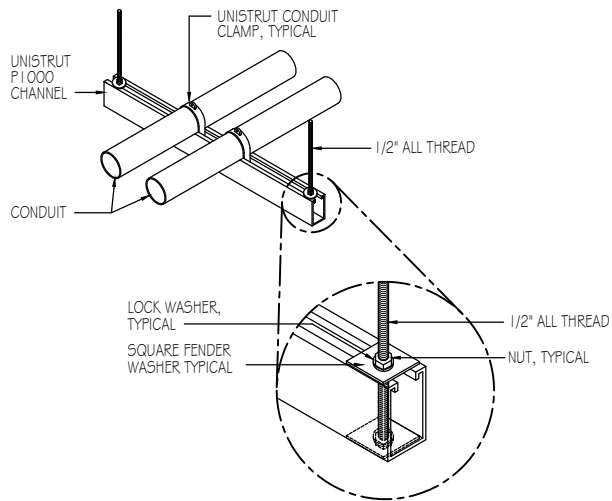
SOUTH  
SALT LAKE

STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
JORDAN RIVER PUMP STATION PLANS

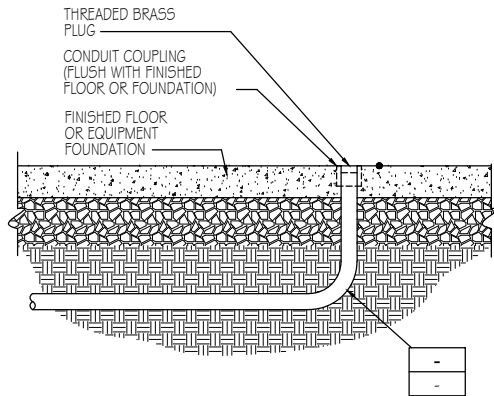
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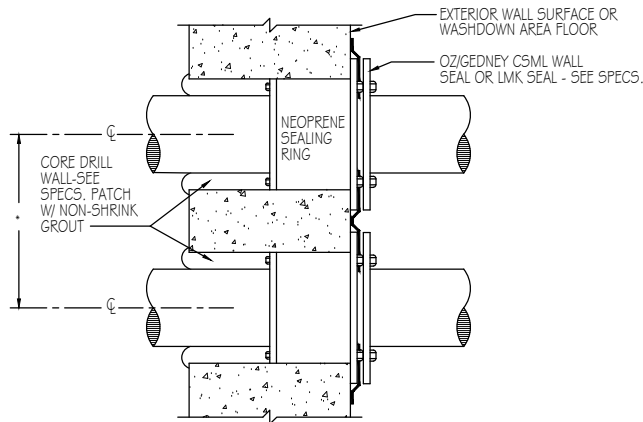
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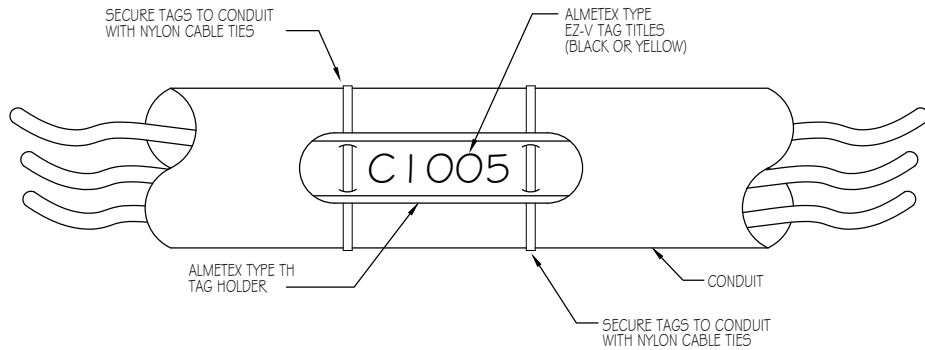
7 CONDUIT SUPPORT DETAIL  
E-501 SCALE: NONE TYPICAL



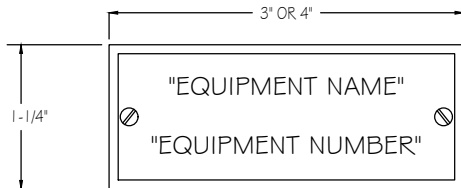
8 FLUSH CONDUIT TERMINATION  
E-501 SCALE: NONE TYPICAL



4 UNDERGROUND CONDUIT  
WALL SEAL OR WASHDOWN FLOOR  
E-501 SCALE: NONE

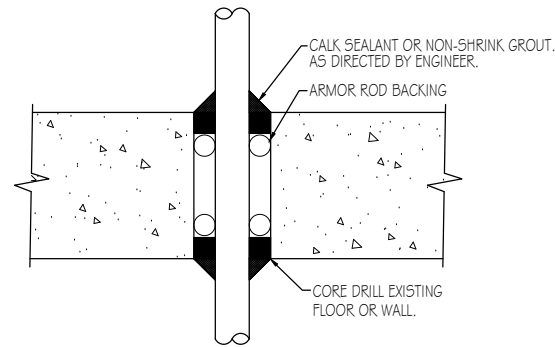


5 CONDUIT MARKING SYSTEM  
E-501 SCALE: NONE TYPICAL OF ALL CONDUITS

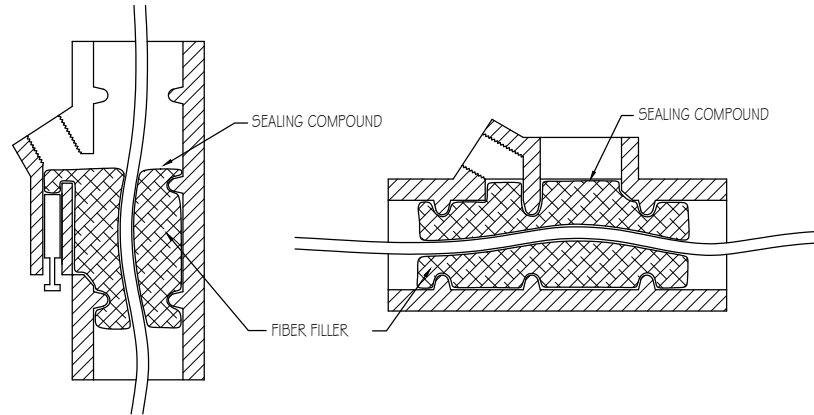


- NOTES:
1. ALL LETTERS TO BE 1/4\"
  2. ALL NAMEPLATES TO BE MOUNTED ON THE VERTICAL CENTERLINE OF THE CUBICAL OR DEVICE.
  3. ATTACH ALL NAMEPLATES WITH STAINLESS STEEL SCREWS.
  4. PROVIDE BLANK NAMEPLATES FOR ALL SPARE AND FUTURE DEVICES.

6 NAMEPLATE DETAIL  
E-501 SCALE: NONE TYPICAL OF ALL EQUIPMENT

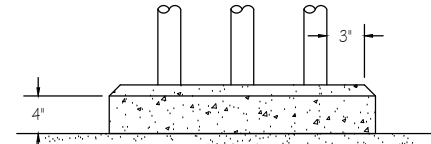


1 EXISTING WALL/DRY  
FLOOR PENETRATIONS  
E-501 SCALE: NONE



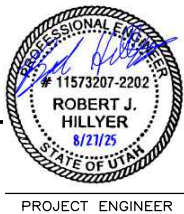
VERTICAL CONDUIT HORIZONTAL CONDUIT

2 TYPICAL CONDUIT SEAL  
DAMMING AND POURING  
E-501 SCALE: NONE



HOUSEKEEPING CURB REQUIRED AT ALL INTERIOR WALL LOCATIONS FOR SINGLE AND MULTIPLE CONDUIT RISERS. CONDUIT RISERS SHALL BE COUPLED SO THAT SINGLE CONDUITS ARE SIX FEET APART MINIMUM.

3 CONCRETE HOUSEKEEPING CURB DETAIL  
E-501 SCALE: NONE



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ALLAN & LUCE  
ENGINEERS

PROJECT ENGINEER

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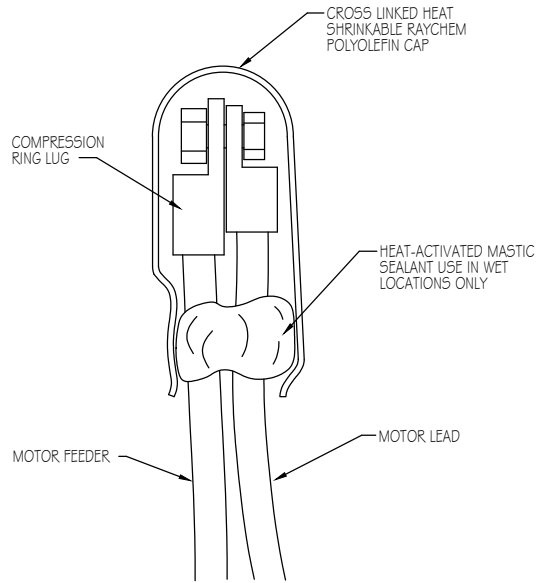
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AS  
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SOUTH  
SALT LAKE

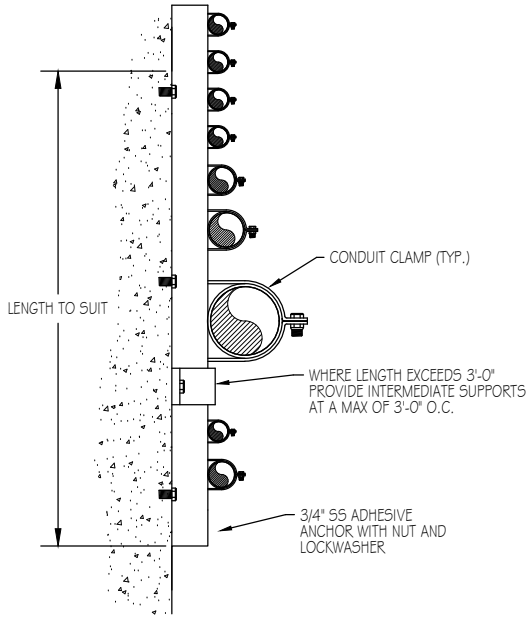
STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
DETAILS I

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E-501  
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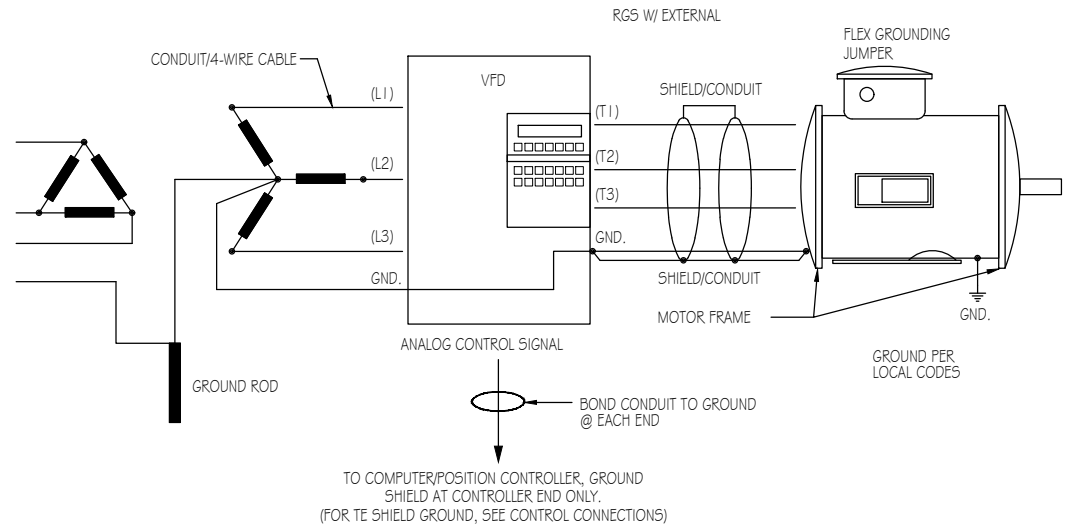
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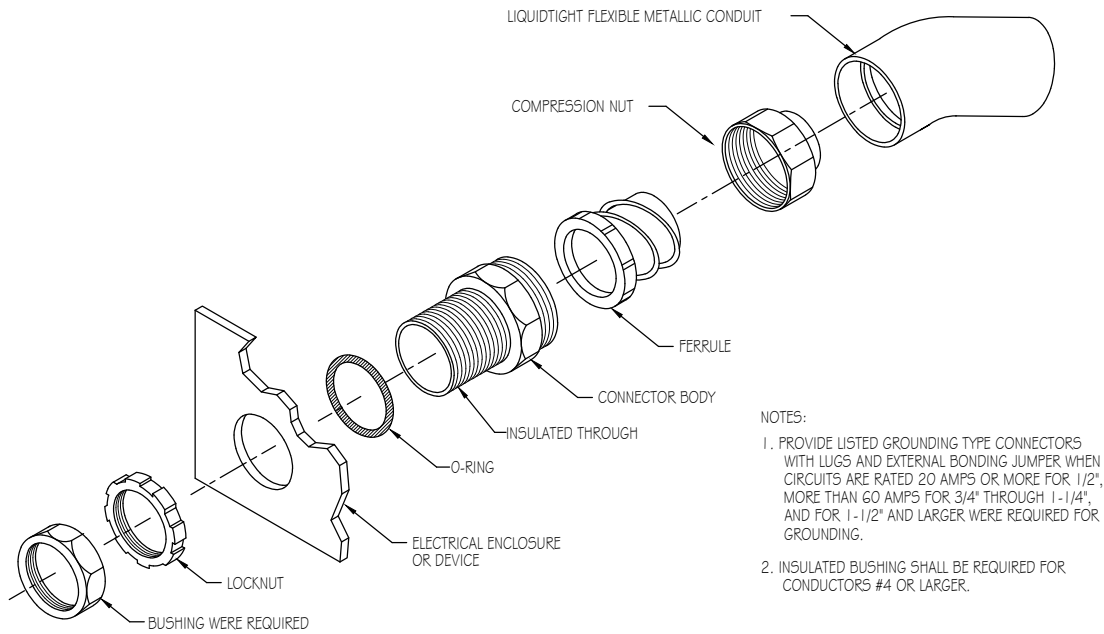
5 **TYPICAL MOTOR LEAD TERMINATION**  
E-502 SCALE: NONE TYPICAL



3 **CONDUIT SUPPORT DETAIL**  
E-502 SCALE: NONE TYPICAL

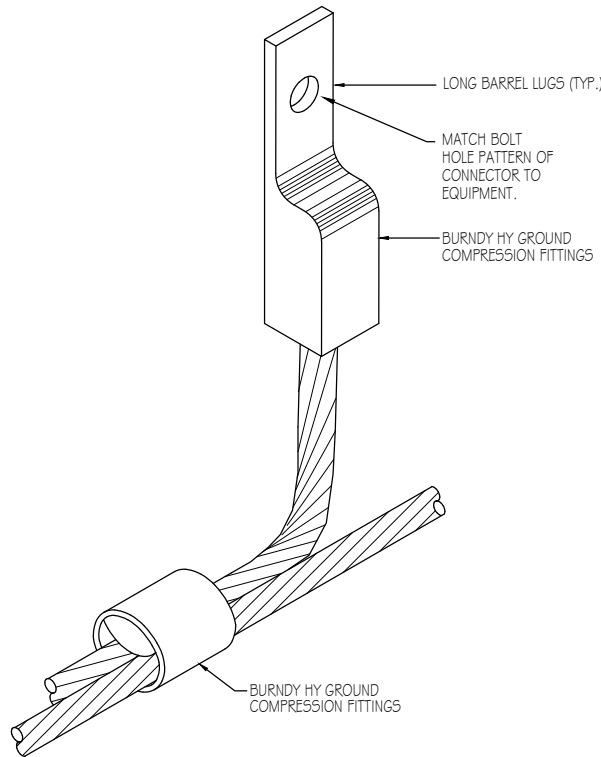


1 **VFD GROUNDING DIAGRAM**  
E-502 SCALE: NONE

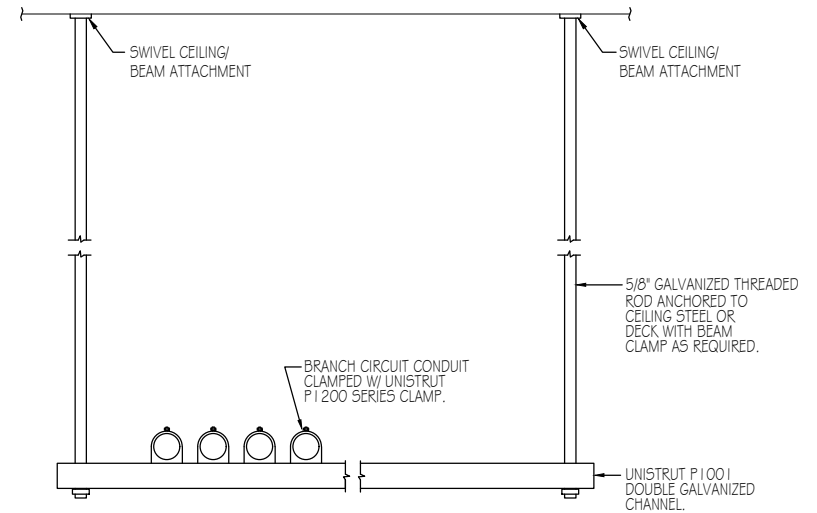


- NOTES:
1. PROVIDE LISTED GROUNDING TYPE CONNECTORS WITH LUGS AND EXTERNAL BONDING JUMPER WHEN CIRCUITS ARE RATED 20 AMPS OR MORE FOR 1/2", MORE THAN 60 AMPS FOR 3/4" THROUGH 1-1/4", AND FOR 1-1/2" AND LARGER WERE REQUIRED FOR GROUNDING.
  2. INSULATED BUSHING SHALL BE REQUIRED FOR CONDUCTORS #4 OR LARGER.

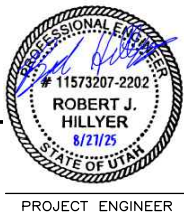
6 **TYPICAL FLEXIBLE CONDUIT CONNECTION DETAIL**  
E-502 SCALE: NONE



4 **EQUIPMENT GROUNDING CONNECTION**  
E-502 SCALE: NONE TYPICAL



2 **CONDUIT SUPPORT DETAIL**  
E-502 SCALE: NONE TYPICAL



**HANSEN  
ALLER  
& LUCE**  
ENGINEERS

PROJECT ENGINEER

DESIGNED RJH  
DRAFTED KJB  
CHECKED BT  
DATE JULY 2025

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2  
1  
NO.

DATE

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SCALE

AS SHOWN

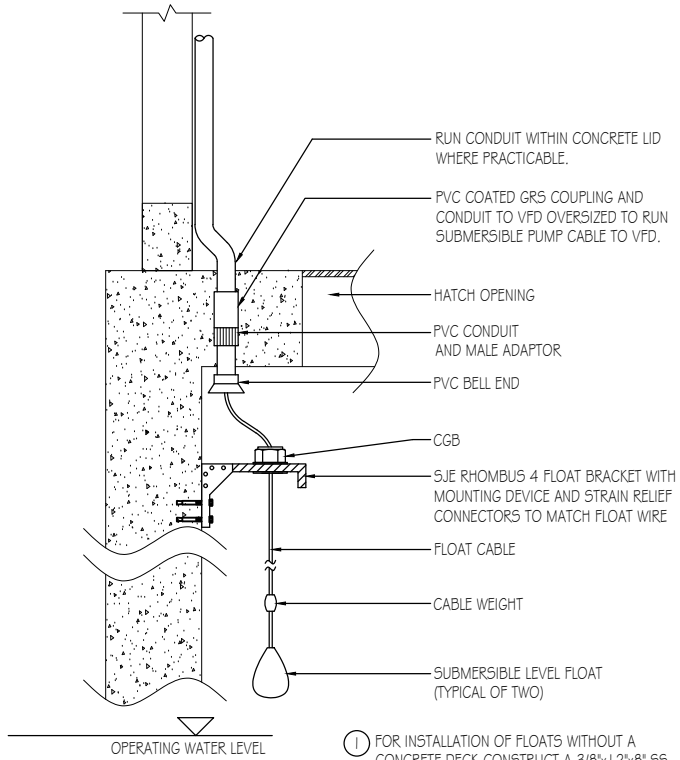
**SOUTH  
SALT LAKE**

STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
DETAILS II

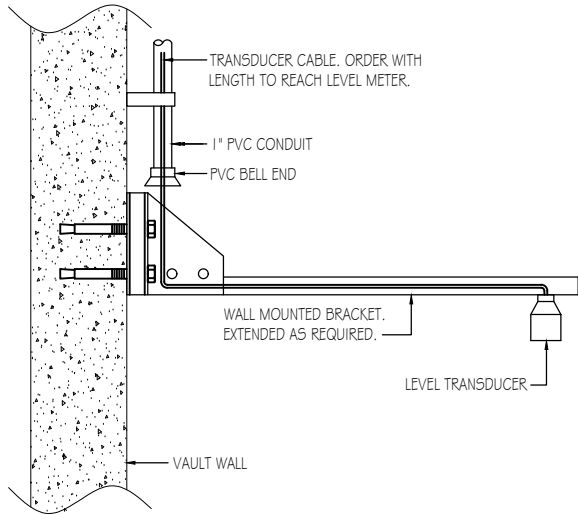
SHEET  
E-502

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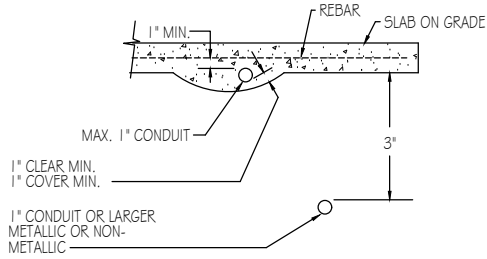
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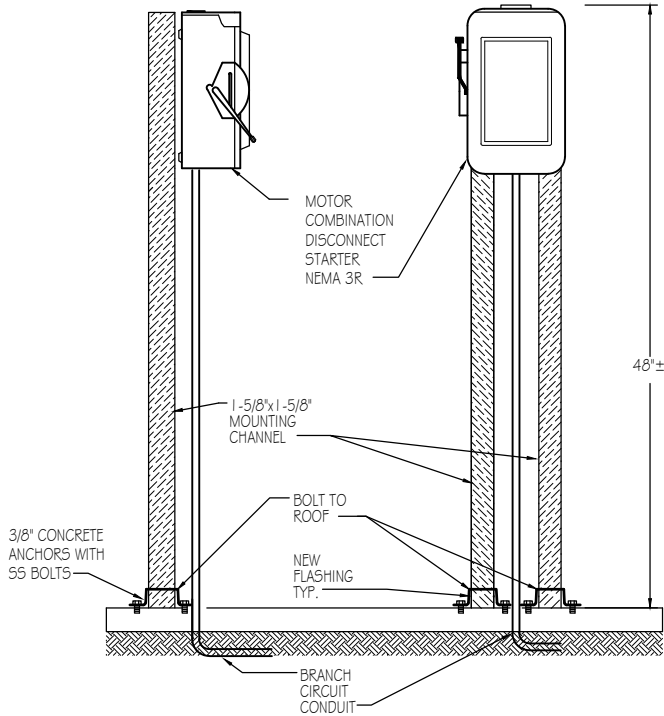
6 LEVEL FLOAT MOUNTING DETAIL  
E-503 SCALE: NONE



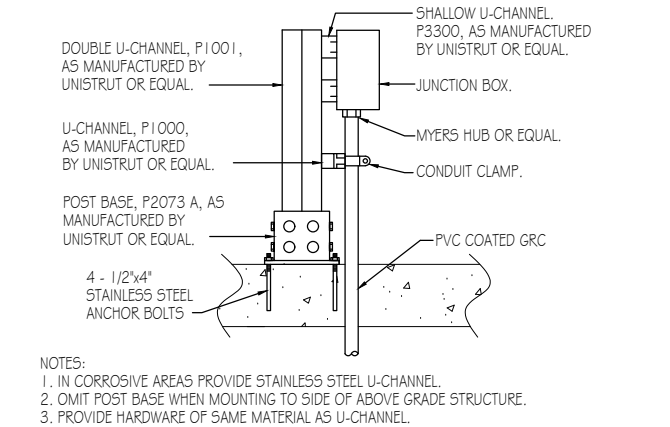
7 TRANSDUCER MOUNTING DETAIL  
E-503 SCALE: NONE



4 CONDUIT PLACEMENT DETAIL  
E-503 SCALE: NONE TYPICAL

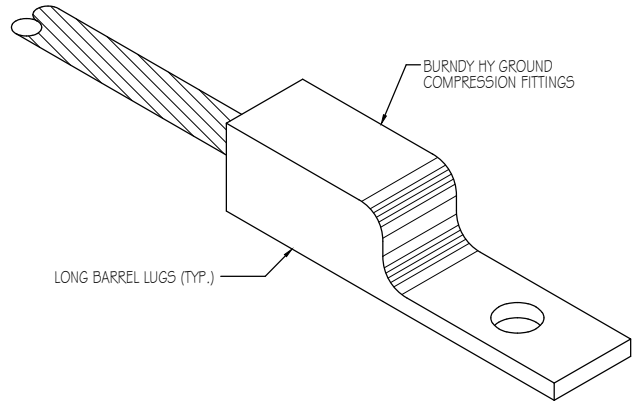


5 MOTOR COMBINATION DISCONNECT STARTER DETAIL  
E-503 SCALE: NONE

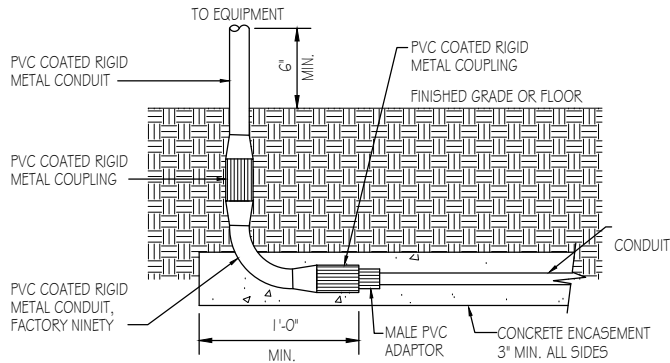


NOTES:  
1. IN CORROSIVE AREAS PROVIDE STAINLESS STEEL U-CHANNEL.  
2. OMIT POST BASE WHEN MOUNTING TO SIDE OF ABOVE GRADE STRUCTURE.  
3. PROVIDE HARDWARE OF SAME MATERIAL AS U-CHANNEL.

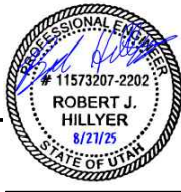
1 JUNCTION BOX MOUNTING DETAIL  
E-503 SCALE: NONE



2 BONDING LUG DETAIL  
E-503 SCALE: NONE



3 CONDUIT RISER DETAIL  
E-503 SCALE: NONE TYPICAL



HANSEN  
ALLAN  
& LUCE  
ENGINEERS

PROJECT ENGINEER

DESIGNED RJH  
DRAFTED KJB  
CHECKED BT  
DATE JULY 2025

3  
2  
1  
NO.

DATE

DATE

REVISIONS

BY

APVD.

SCALE

AS SHOWN

SOUTH  
SALT LAKE

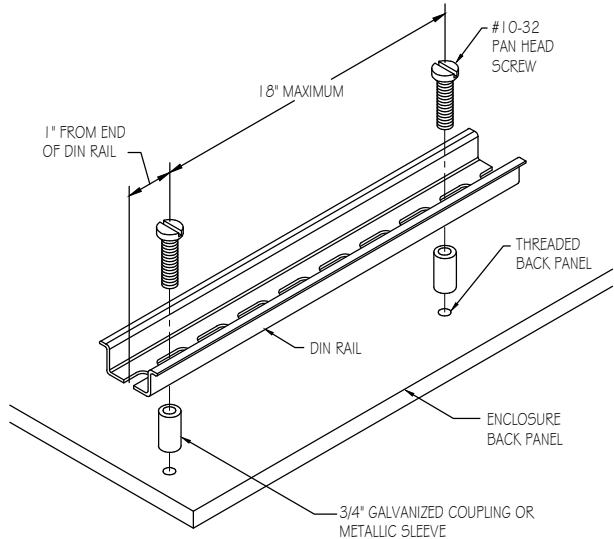
STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
DETAILS III

SHEET  
E-503

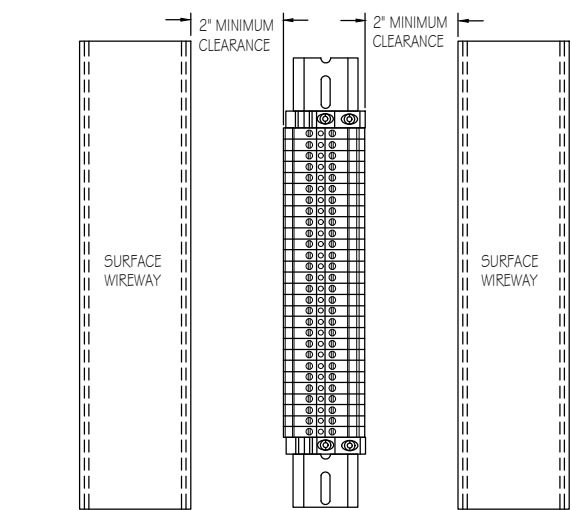
126.60.100



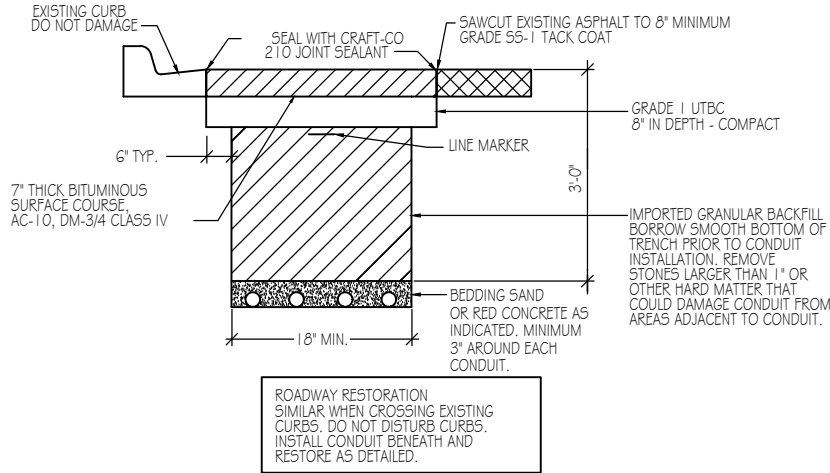
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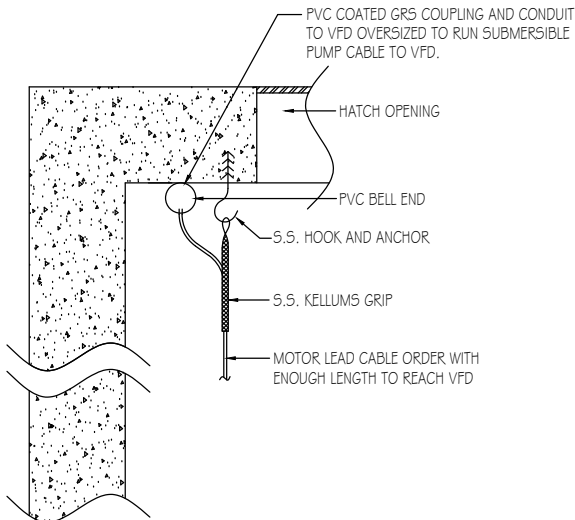
7 DIN RAIL MOUNTING DETAIL  
E-504 SCALE: NONE



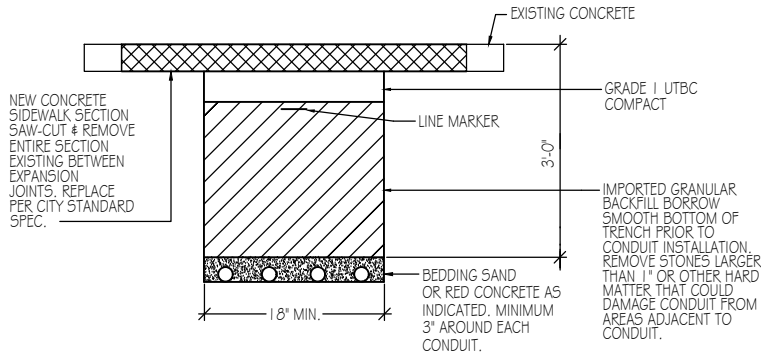
4 TERMINAL BLOCK CLEARANCE DETAIL  
E-504 SCALE: NONE



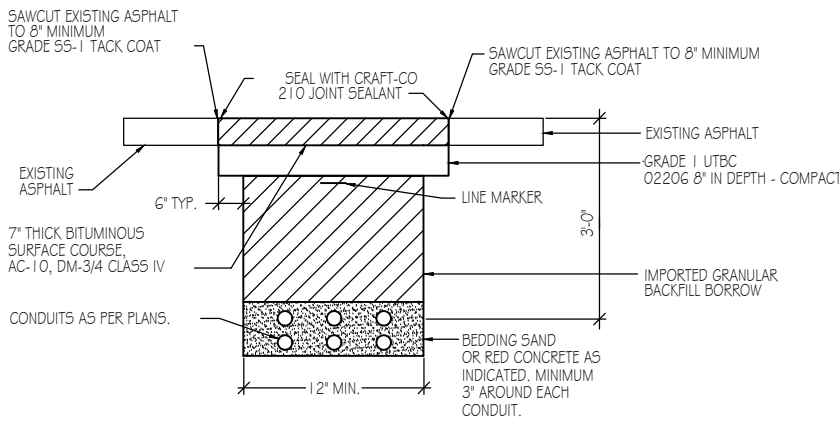
1 TRENCH DETAIL-ROADWAY RESTORATION  
E-504 SCALE: NONE



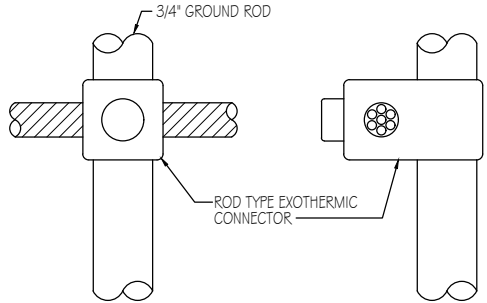
5 PUMP MOTOR LEAD MOUNTING DETAIL  
E-504 SCALE: NONE (MOTOR MONITORING CABLE SIMILAR)



2 TRENCH DETAIL-SIDEWALK RESTORATION  
E-504 SCALE: NONE



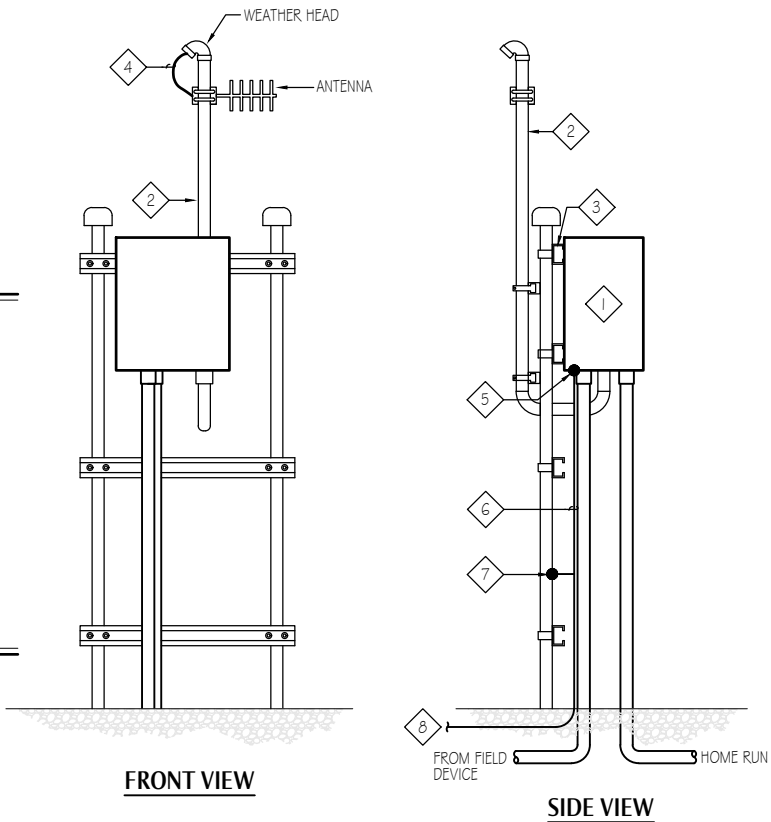
3 TRENCH DETAIL-ROADWAY RESTORATION  
E-504 SCALE: NONE



6 CABLE TO ROD CONNECTION DETAIL  
E-504 SCALE: NONE TYPICAL

## DETAIL NOTES

- ENCLOSURE, NEMA 12.
- MAST, 1" RG5.
- CONDUIT CLAMPS
- S.O. EXTERIOR ARRAY CABLE / WIRING HARNESS.
- BOND TO CABINET AND TO SURGE SUPPRESSORS AND POWER SUPPLIES WITHIN CABINET.
- #6 B.C. SOLID COPPER GROUND.
- BOND TO MAST.
- TO GROUND GRID. SEE SITE PLAN.



8 UNISTRUT SUPPORT DETAIL  
E-504 SCALE: NONE



HANSEN  
ALLER  
& LUCE  
ENGINEERS

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SCALE

AS SHOWN

SOUTH  
SALT LAKE

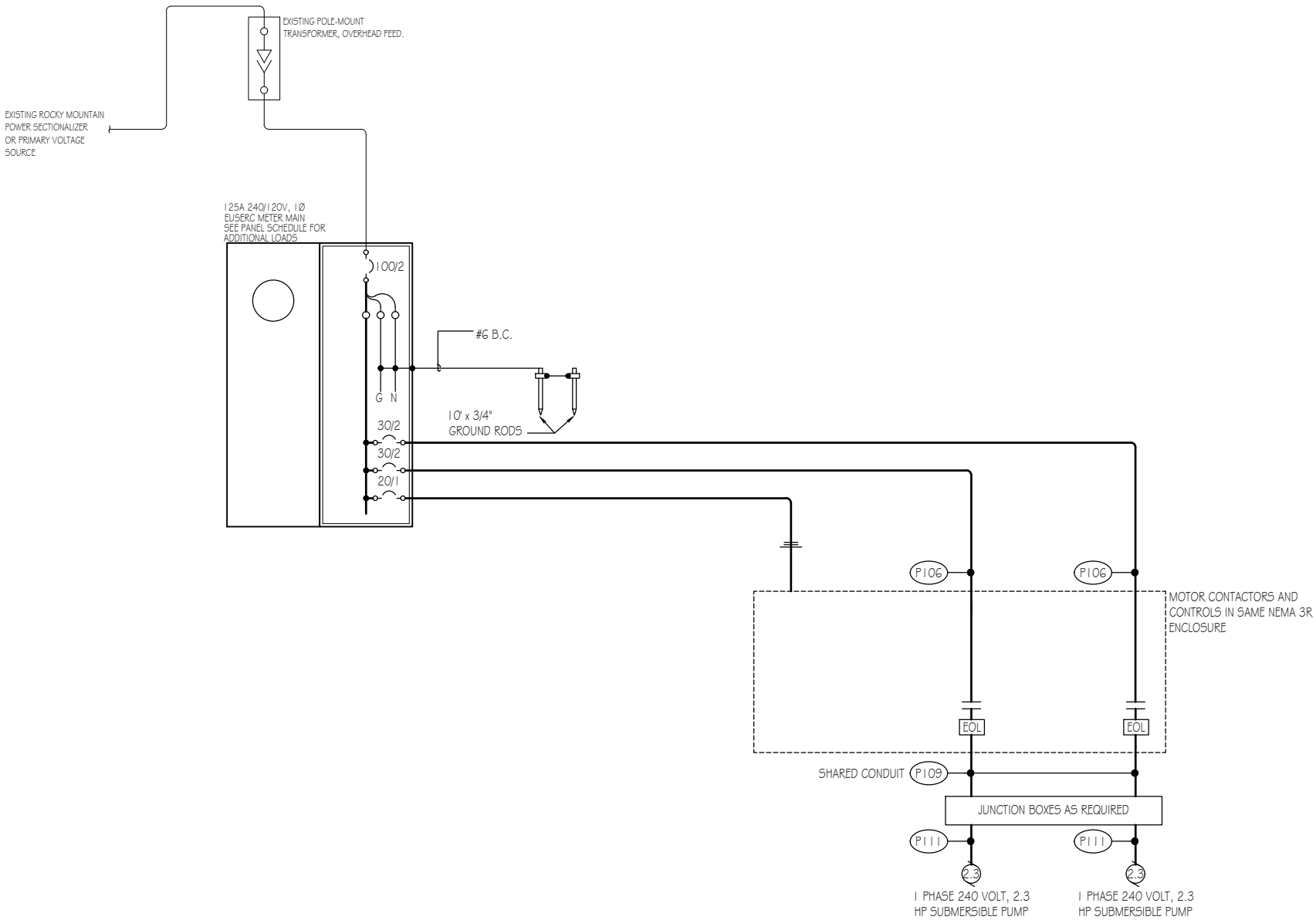
STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
DETAILS IV

SHEET  
E-504

126.60.100

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FILE NAME:  
FILE DATE:



**BLAIR STREET PUMP STATION ELECTRICAL ONE-LINE DIAGRAM**

SCALE: NONE



**HANSEN  
ALLAN  
& LUCE**  
ENGINEERS

PROJECT ENGINEER

DESIGNED	RJH	3
DRAFTED	KJB	2
CHECKED	BT	1

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DATE

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SCALE  
AS  
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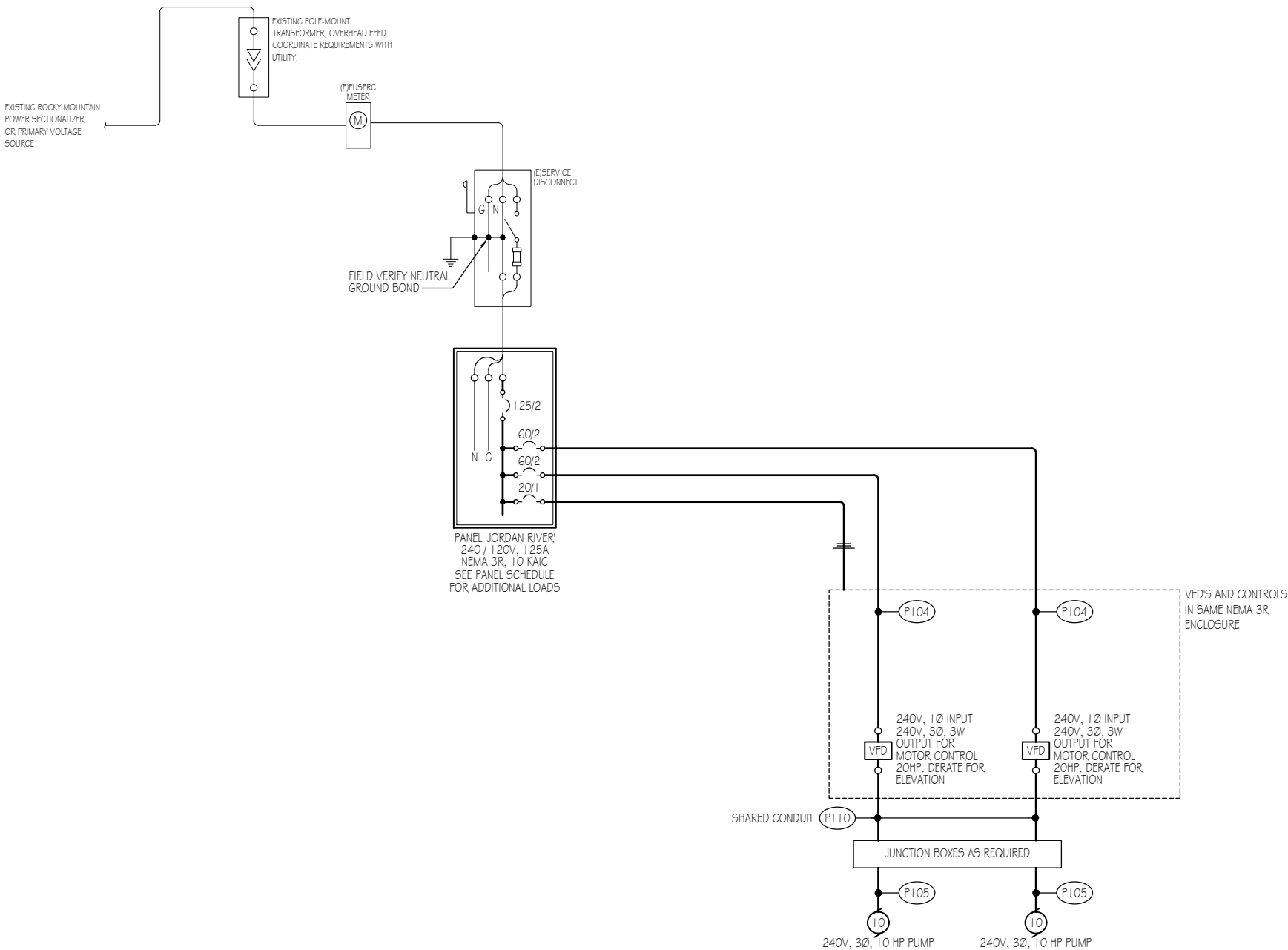


STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
BLAIR STREET PS ONE-LINE DIAGRAM

SHEET
E-601
126.60.100

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FILE NAME:  
FILE DATE:



# JORDAN RIVER PUMP STATION ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE



**HANSEN  
ALLAN  
& LUCE**  
ENGINEERS

PROJECT ENGINEER

DESIGNED	RJH	3
DRAFTED	KJB	2
CHECKED	BT	1

DATE	JULY 2025	NO.	DATE
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REVISIONS

BY

APVD.

SCALE  
AS  
SHOWN



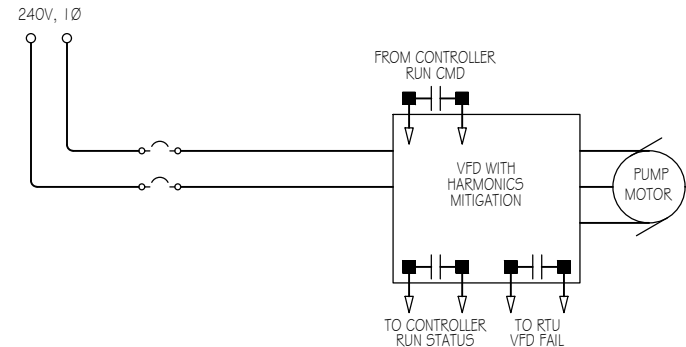
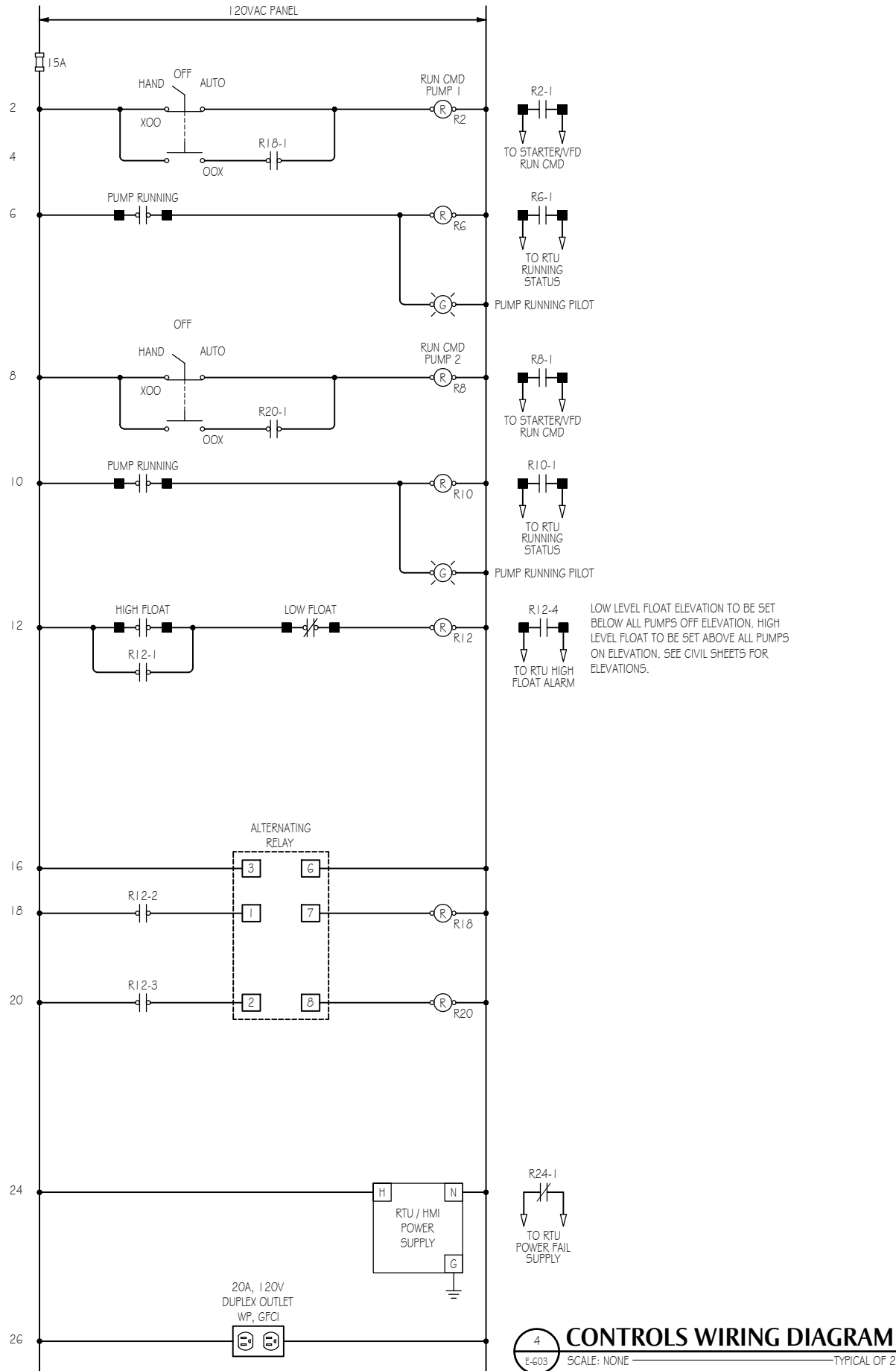
STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
JORDAN RIVER PS ONE-LINE DIAGRAM

SHEET  
E-602  
126.60.100



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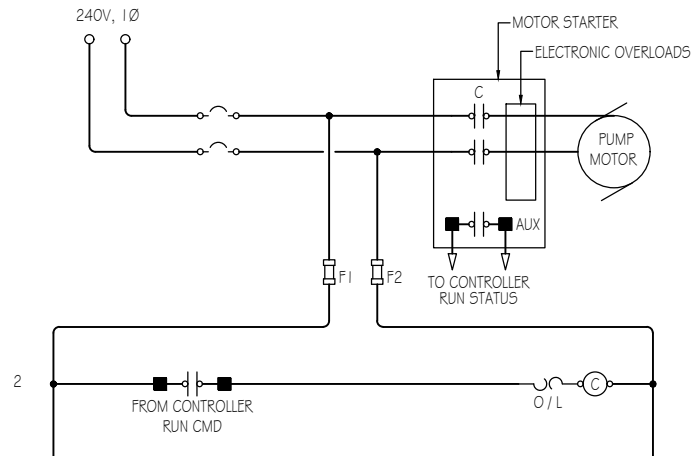
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JORDAN RIVER STORM WATER PUMP VFD CONTROLS DIAGRAM

E-603

SCALE: NONE

TYPICAL OF 2



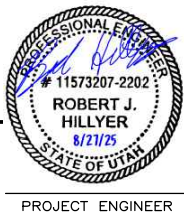
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BLAIRE STREET STORM WATER PUMP CONTROLS DIAGRAM

E-603

SCALE: NONE

TYPICAL OF 2



HANSEN  
ALLAN & LUCE  
ENGINEERS

PROJECT ENGINEER

DESIGNED RJH  
DRAFTED KJB  
CHECKED BT  
DATE JULY 2025

3  
2  
1

NO.

DATE

REVISIONS

BY

APVD.

SCALE  
AS  
SHOWN

SOUTH  
SALT LAKE

STORM WATER PUMP STATIONS UPGRADES  
ELECTRICAL  
WIRING AND CONTROL DIAGRAMS

SHEET  
E-603  
126.60.100