

CONSTRUCTION PLANS
FOR THE
CITY OF DAWSONVILLE, GEORGIA
SEWERAGE SYSTEM IMPROVEMENTS
FLAT CREEK WATER POLLUTION CONTROL PLANT
JANUARY 2024
(REVISED APRIL 2025)

ELECTED OFFICIALS

JOHN WALDEN, MAYOR

MARK FRENCH

WILLIAM ILLG

CALEB PHILLIPS

SANDY SAWYER

CITY MANAGER

BOB BOLZ

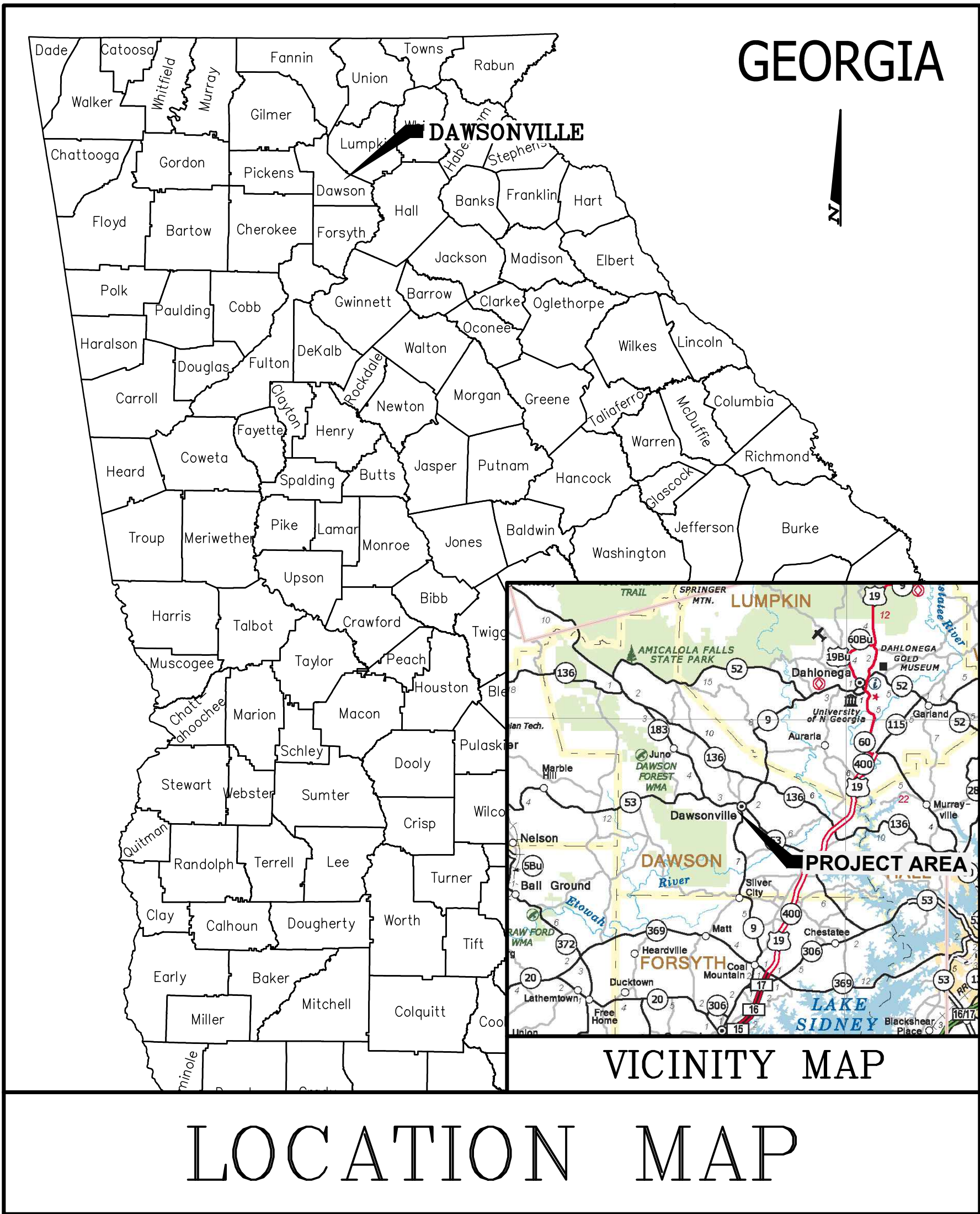
24-HOUR CONTACT

JACOB BARR, UTILITIES DIRECTOR

PHONE: (706) 344-2162

ALL CONSTRUCTION PERMITS, EASEMENTS OR RIGHT-OF-WAY REQUIRED TO BEGIN
CONSTRUCTION HAVE BEEN OBTAINED WITH THE FOLLOWING EXCEPTION(S):
SEE SPECIFICATIONS

FUNDING: GEFA GEORGIA FUND, SLFRF
PROJECT No.: 182181



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ATLANTA
AUGUSTA
AIKEN
ST. SIMONS ISLAND

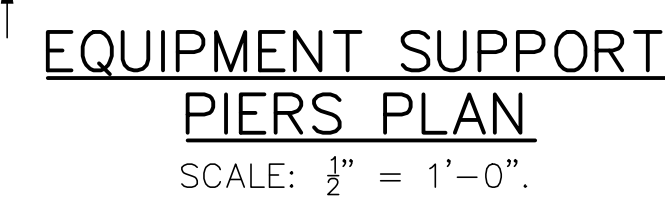
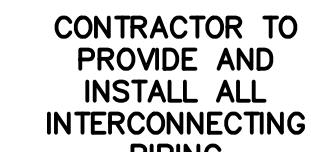
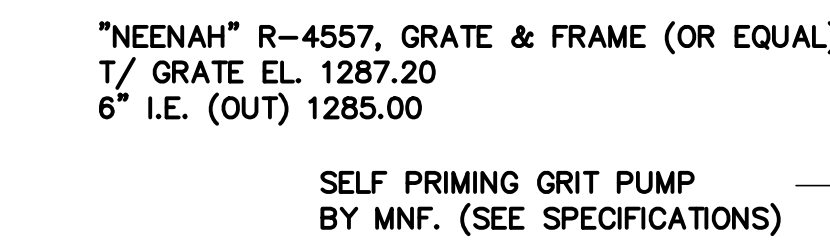
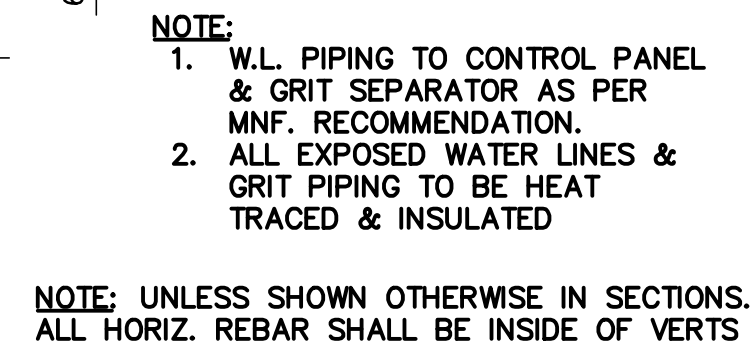


Know what's below.
Call before you dig.

GPS COORDINATES OF CONSTRUCTION EXIT:
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84.1265° W



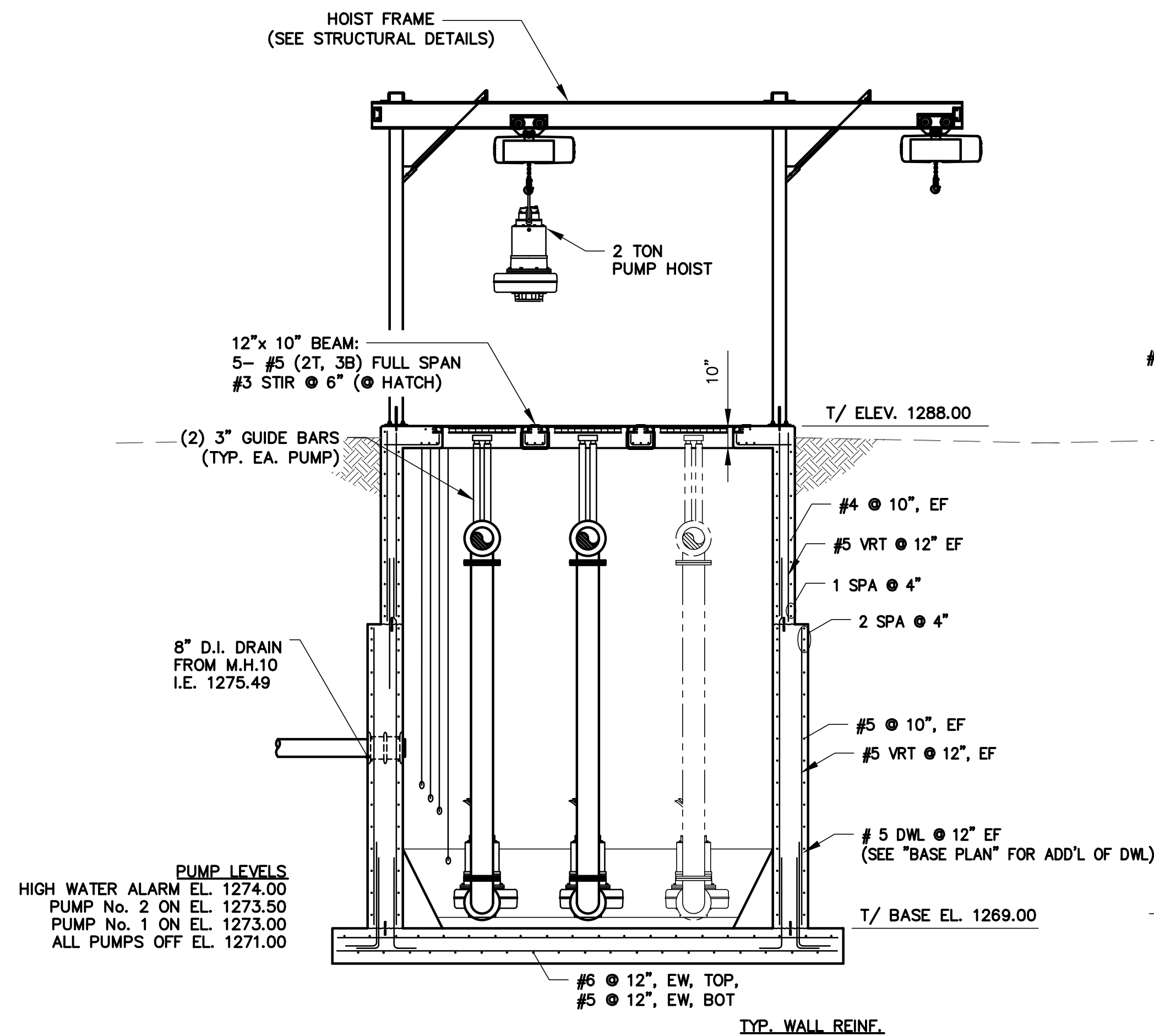
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T/ CVR EL. 1287.00
I.E. 1275.79, 8" IN FROM M.H. 9
I.E. 1275.59, 8" OUT TO PUMP STATION



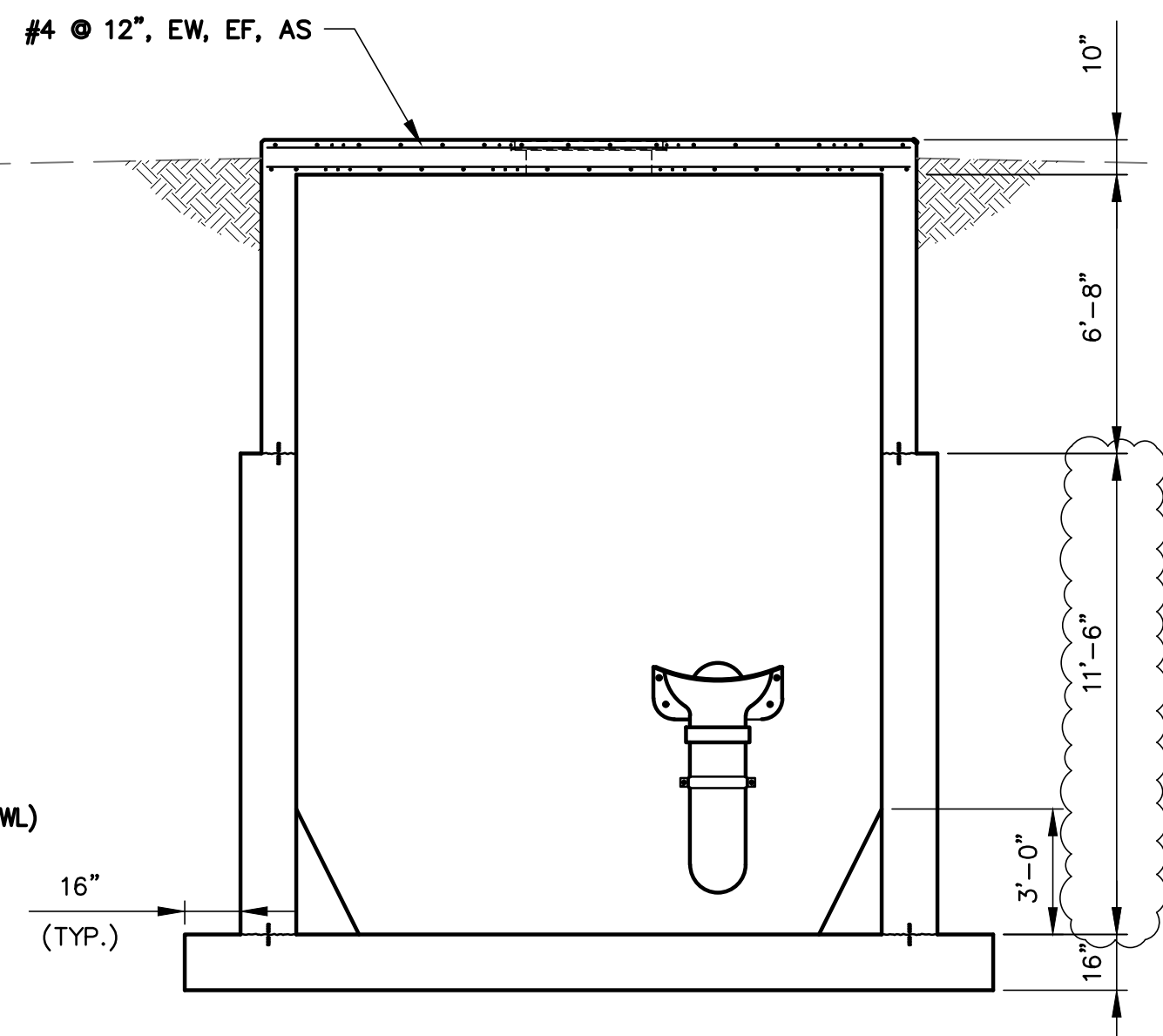
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DRAWN	CHECKED	SCALE: AS SHOWN	DATE: JANUARY 2024
JDC	GBT	 ATLANTA AUGUSTA Aiken ST. SIMONS ISLAND SHEET 12 OF 103	



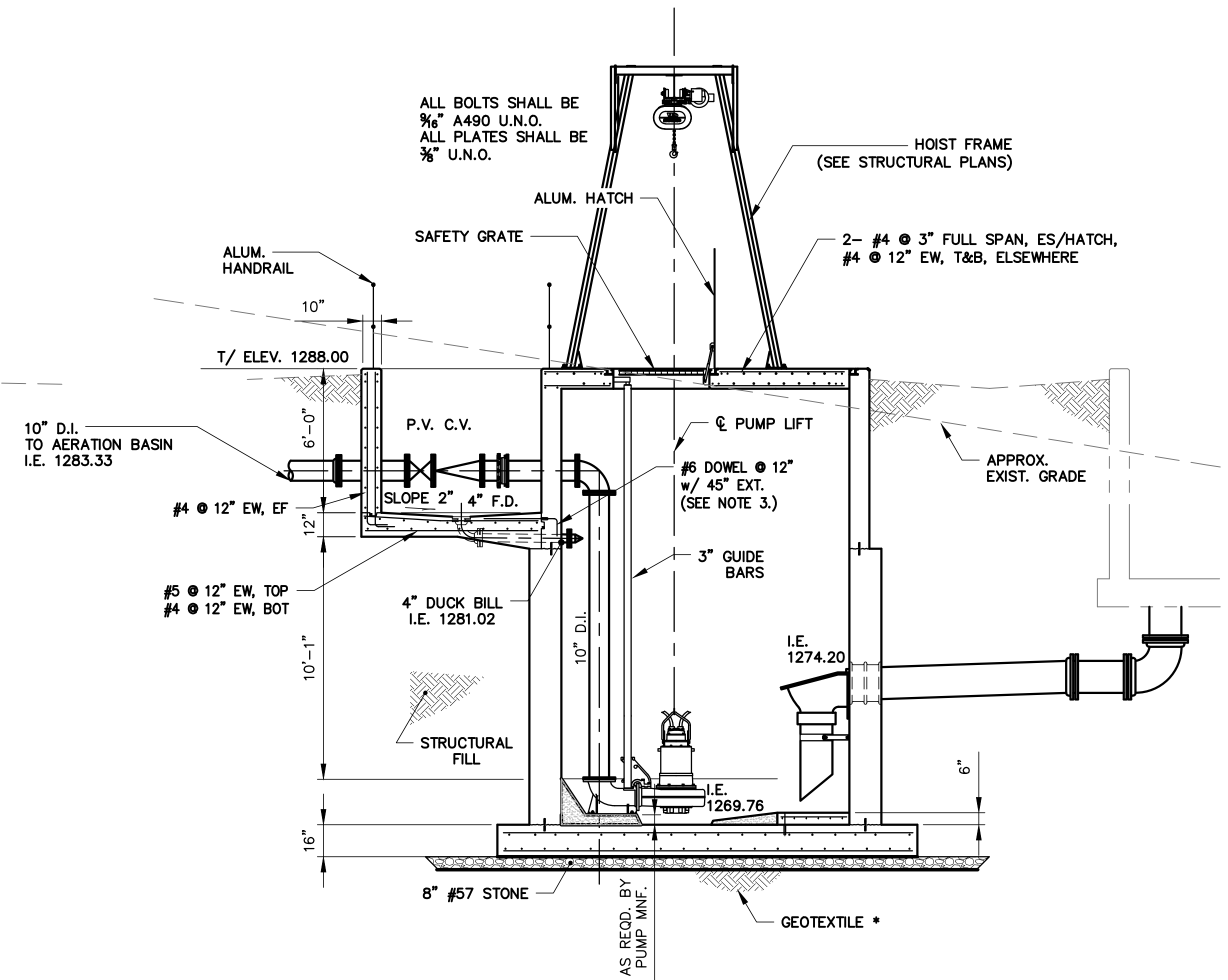
P:\Dawsonville\182181 Flat Creek WPCP\Drawings\182181 Raw Sewage PS.dwg



SECTION A-A



SECTION B-B

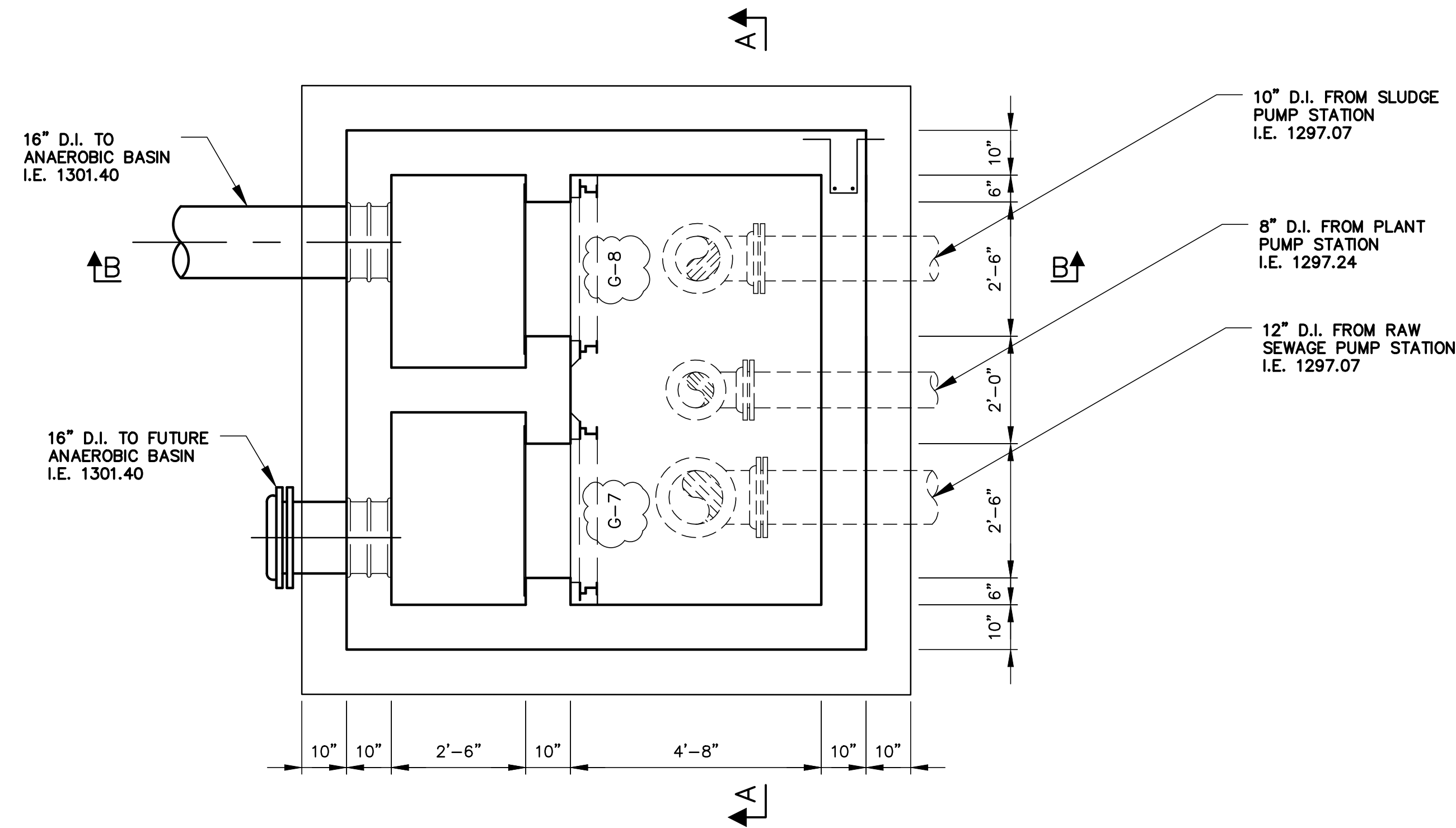


* SEE "SUBSURFACE INVESTIGATION REPORT",
"GROUND" IMPROVEMENT RECOMMENDATIONS, PG. 10
FOR SUBGRADE REQUIREMENTS. GEOTECHNICAL
ENRG. SHALL INSPECT EXCAVATION & DETERMINE
GEOTEXTILE TYPE.

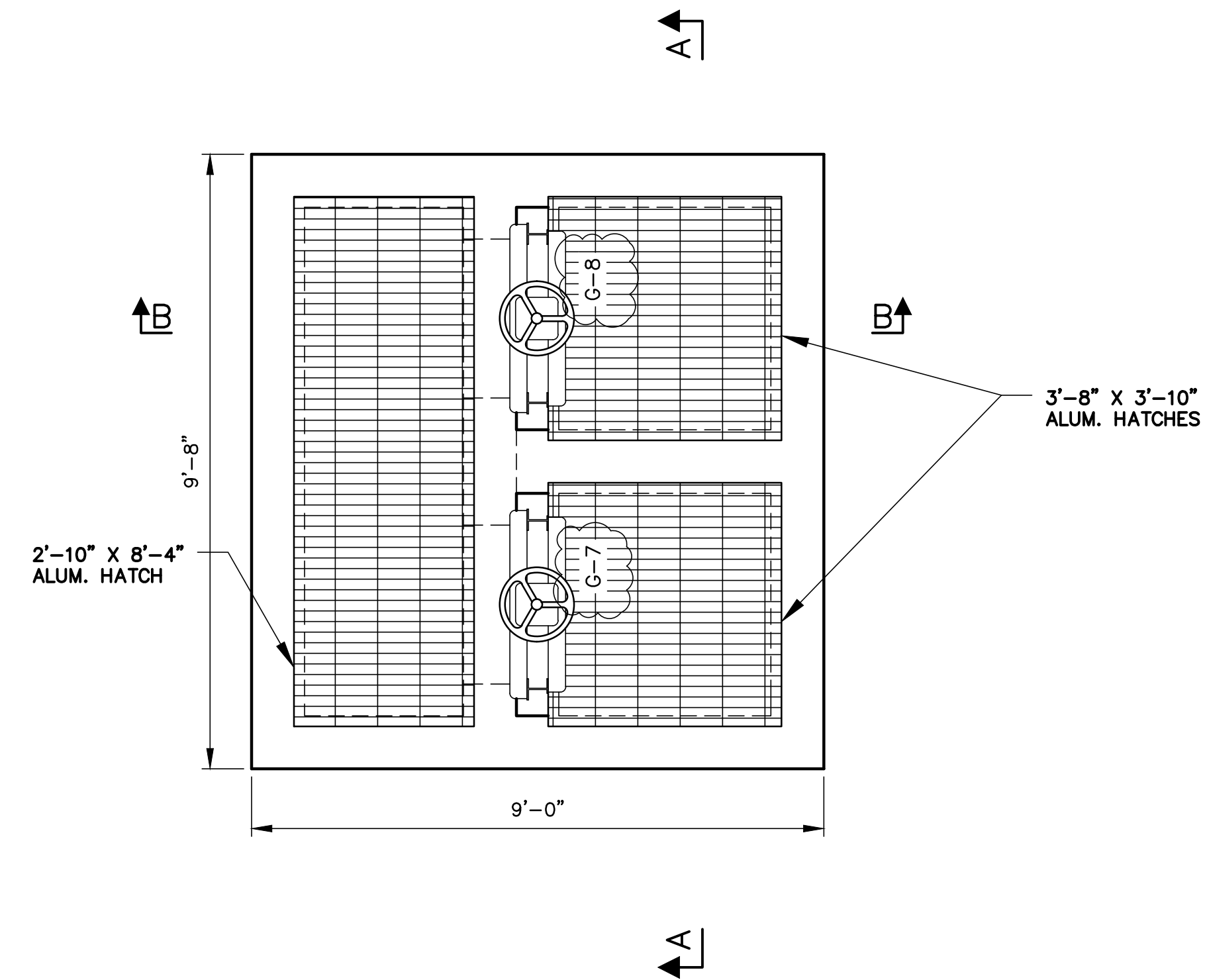
NOTES:
1. SEE STRUCTURAL SHEETS FOR REINFORCING DETAILS.
2. EITHER SPLICER DWL OR STD HK DWL ACCEPTABLE.



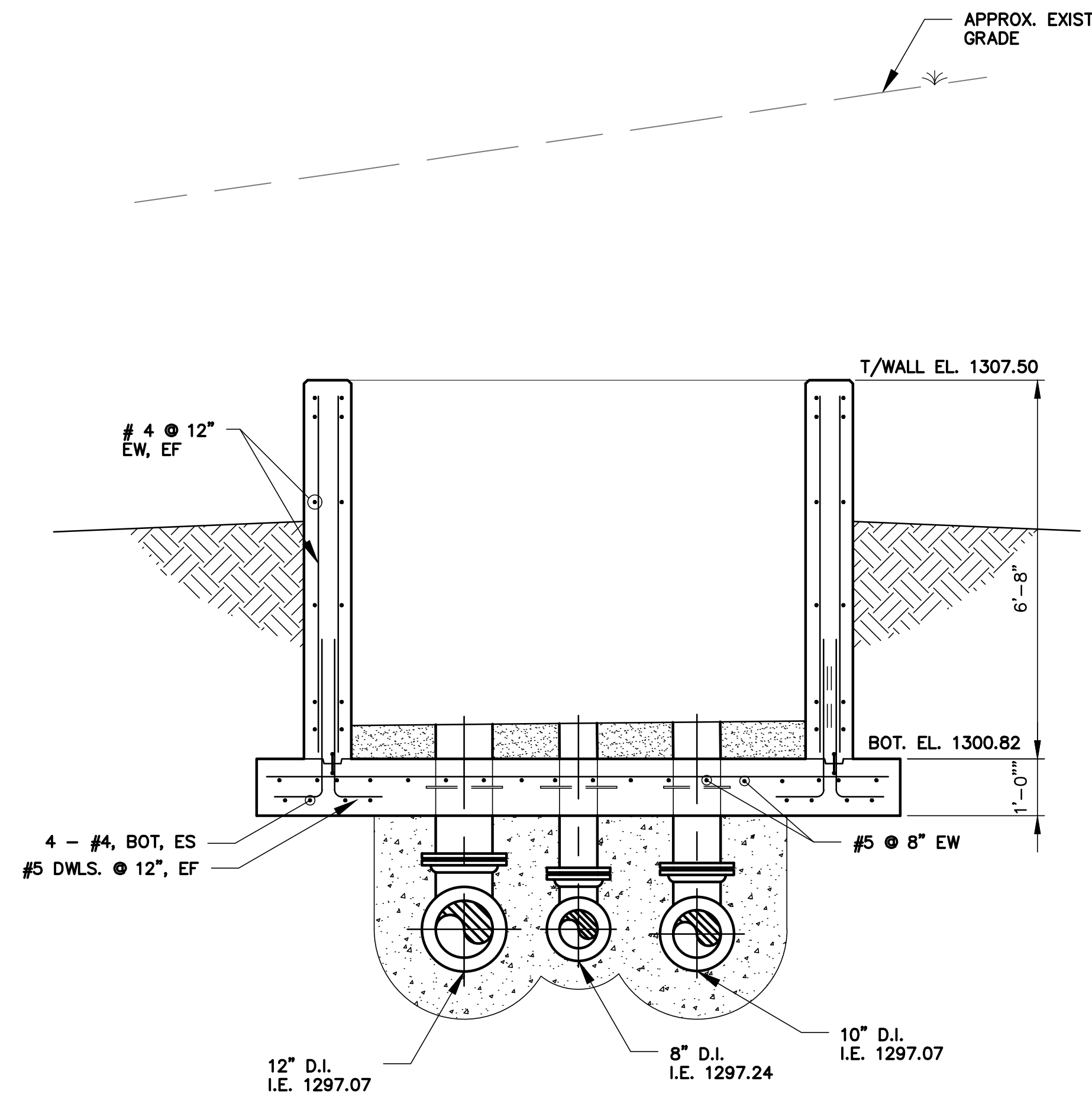
REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT RAW SEWAGE PUMP STATION SECTIONS	
04/11/25			
05/12/25			
DRAWN	CHECKED	SCALE: 1/4" = 1'-0" DATE: JANUARY 2024	
JDC	GBT		
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ALBANY ST. SIMONS ISLAND	SHEET 15 OF 103



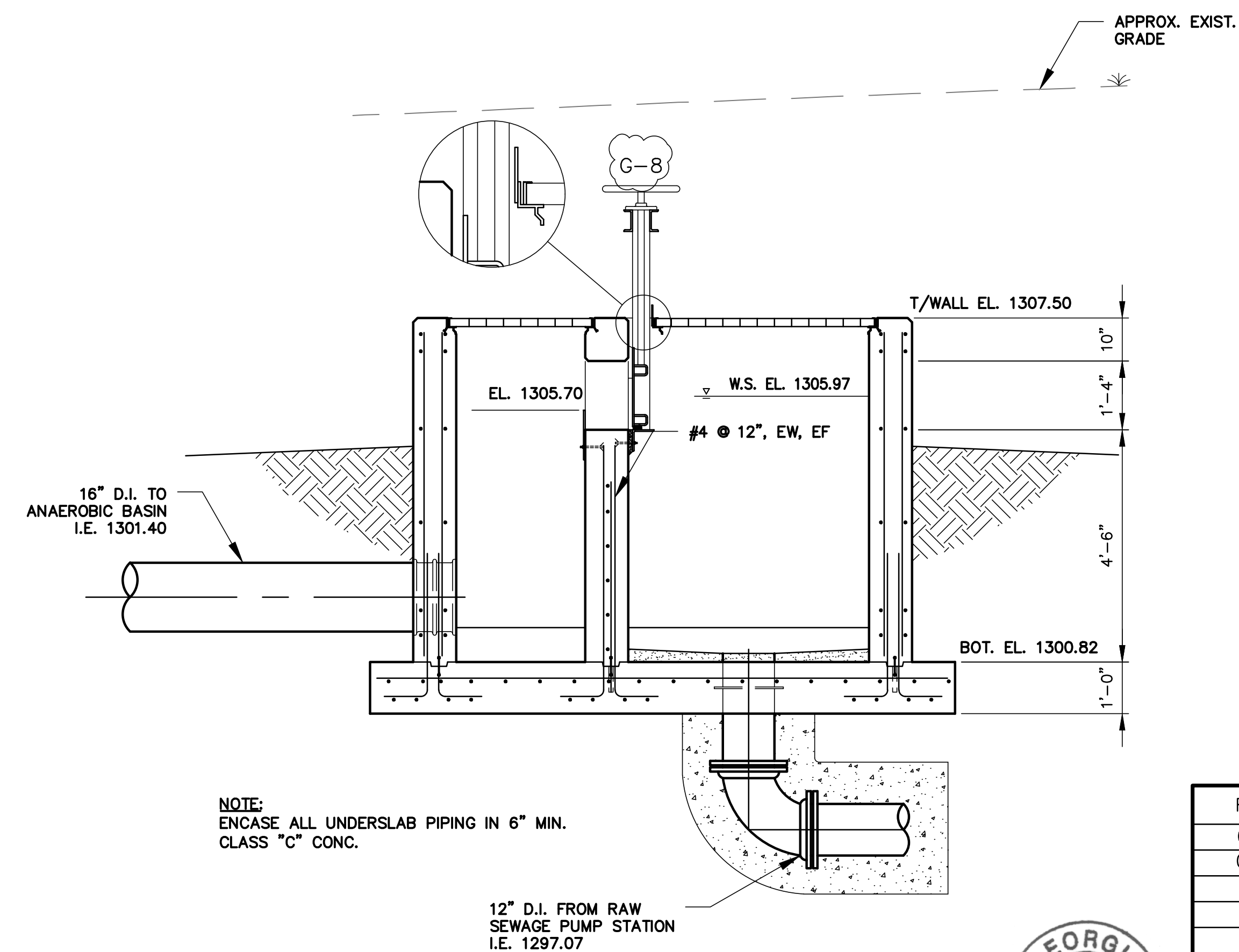
BASE PLAN



TOP PLAN



SECTION A-A



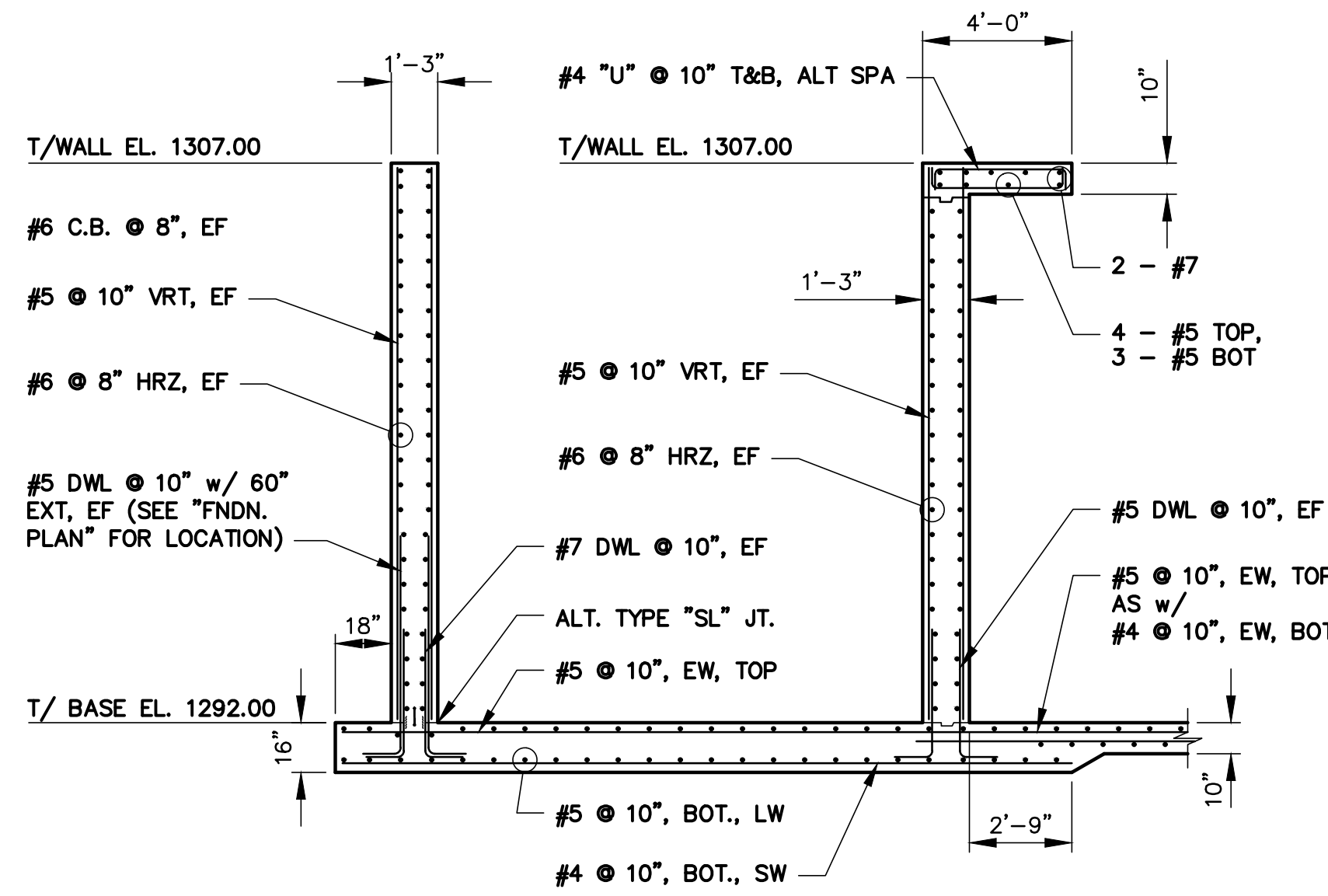
SECTION B-B

NOTE:
ENCASE ALL UNDERSLAB PIPING IN 6" MIN.
CLASS "C" CONC.

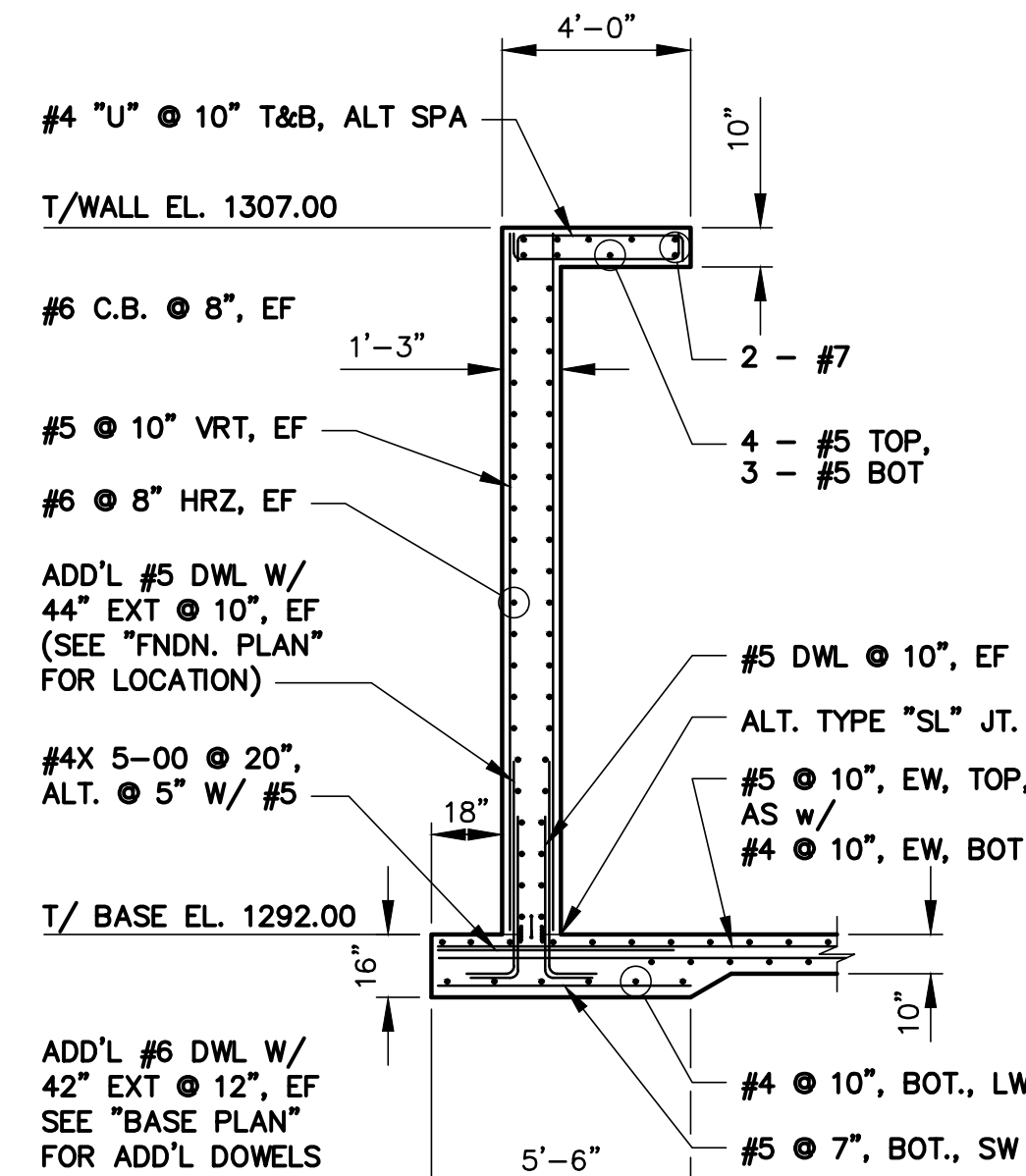


REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25		SPLITTER BOX	
DRAWN		SCALE: 1/2" = 1'-0"	
JDC		DATE: JANUARY 2024	
CHECKED		SHEET	
GBT		16 OF 103	
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA AKEN ST. SIMONS ISLAND	

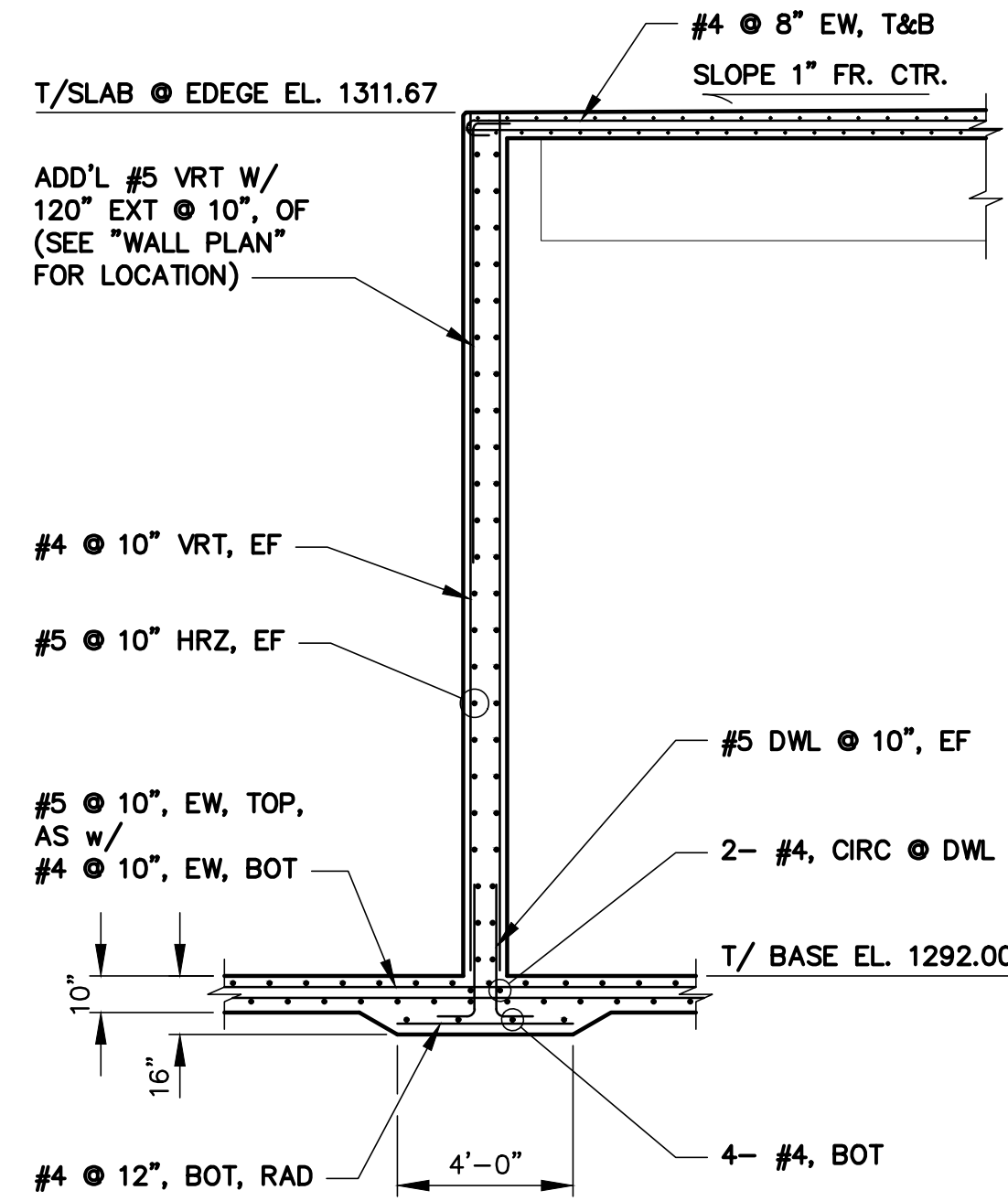
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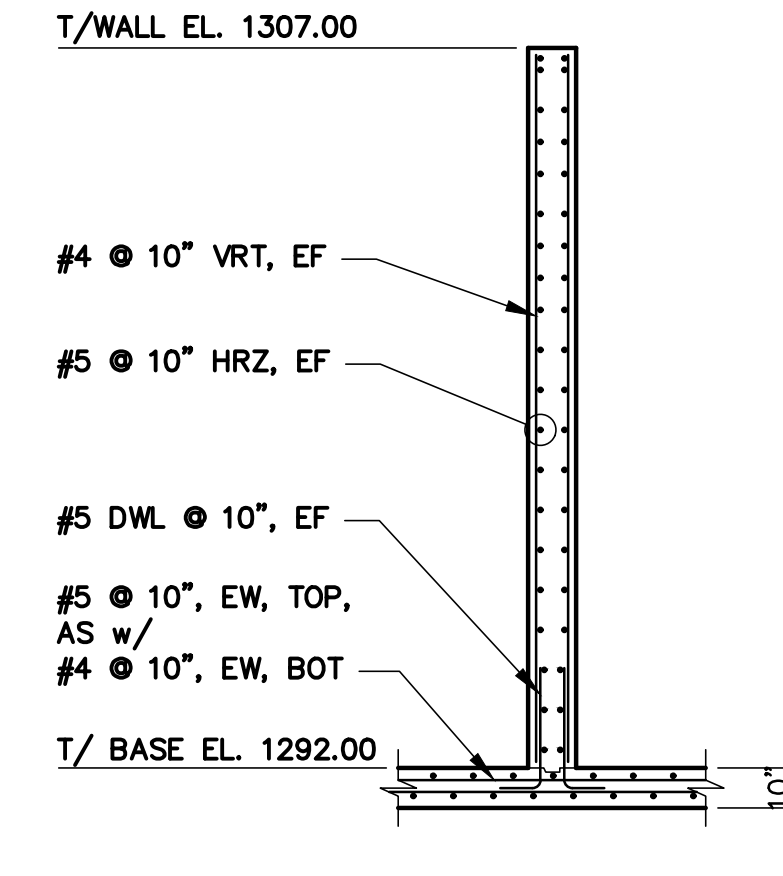
WALL E-Ab
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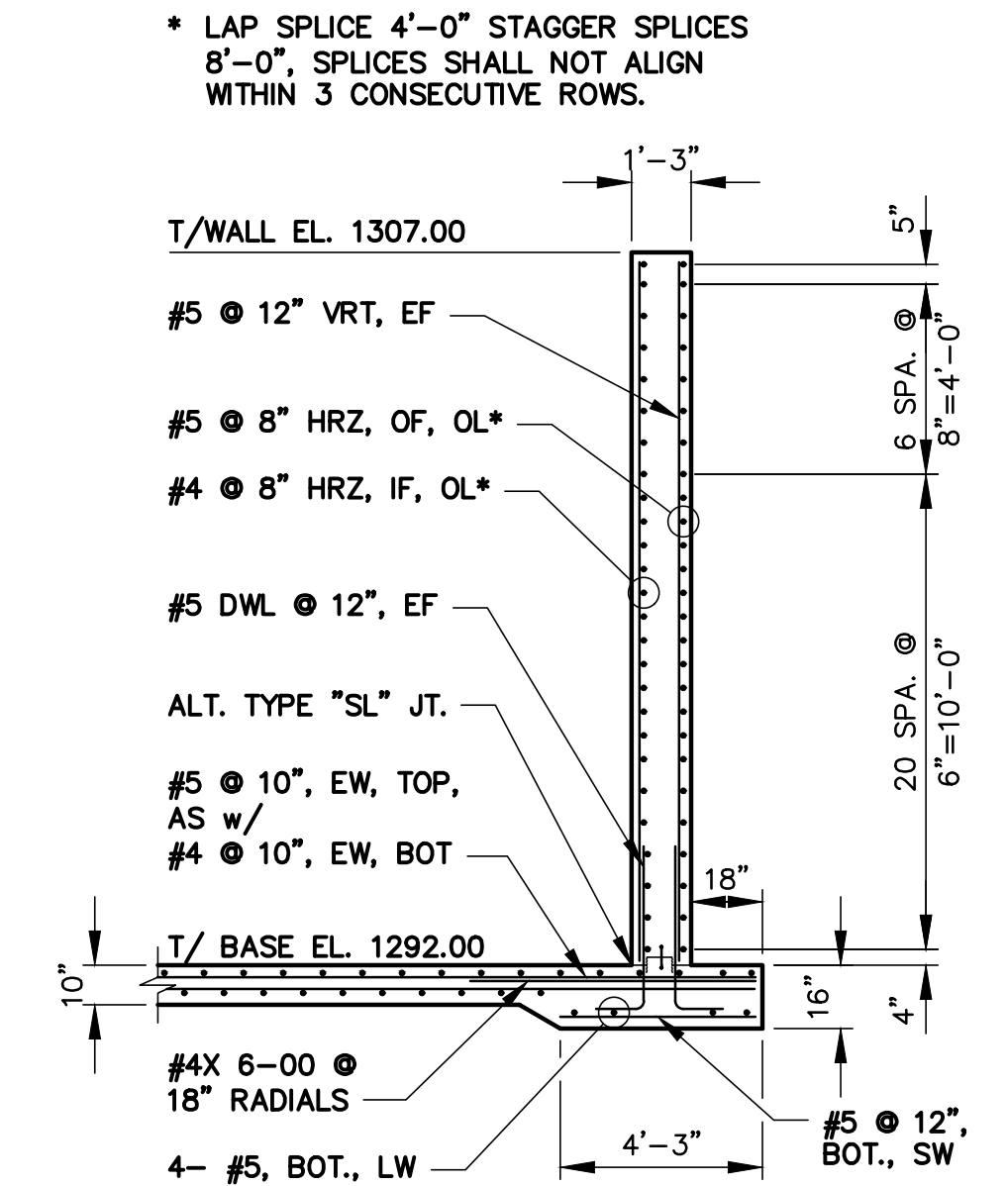
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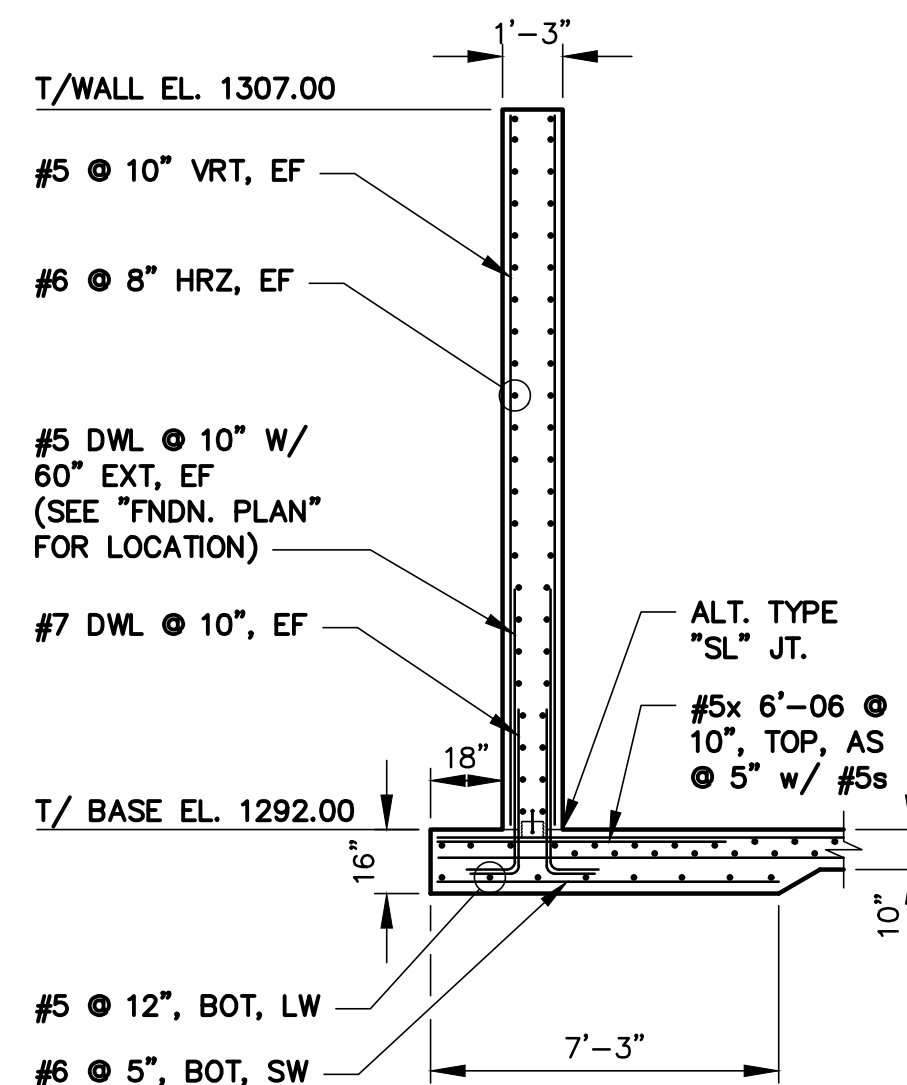
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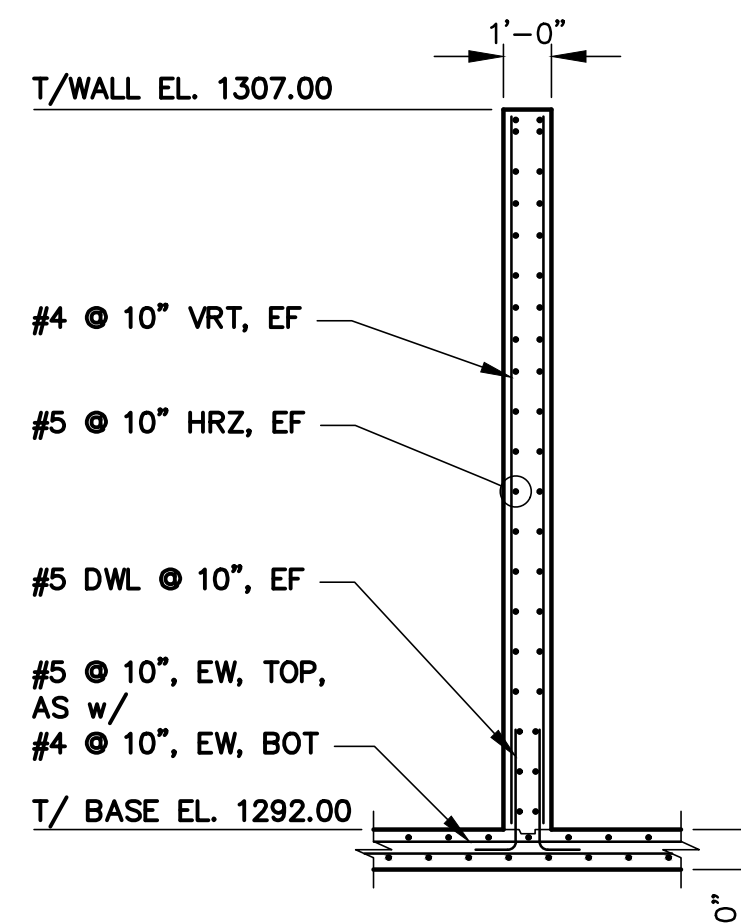
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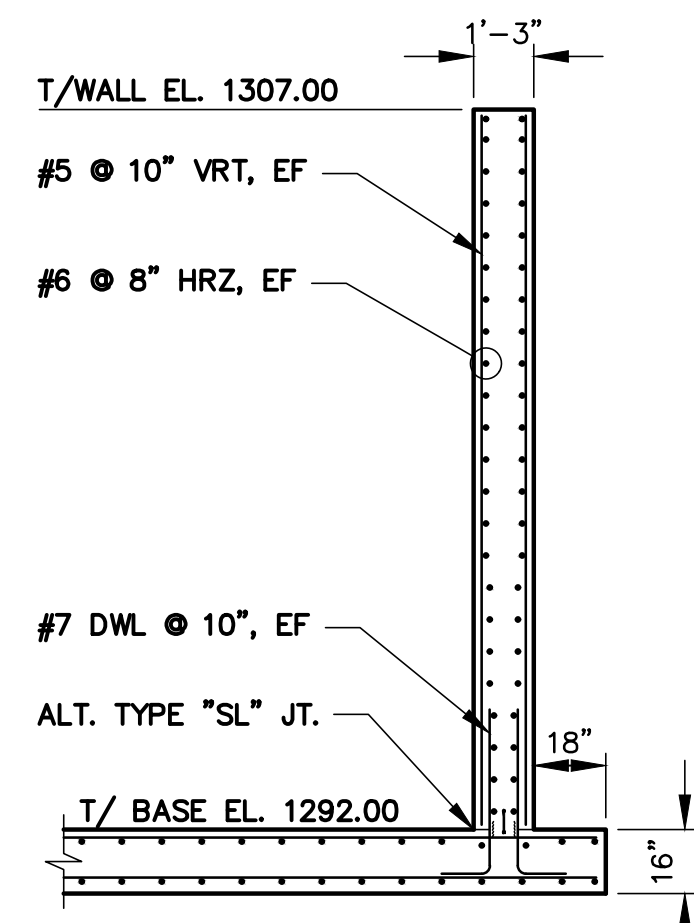
WALL E-C
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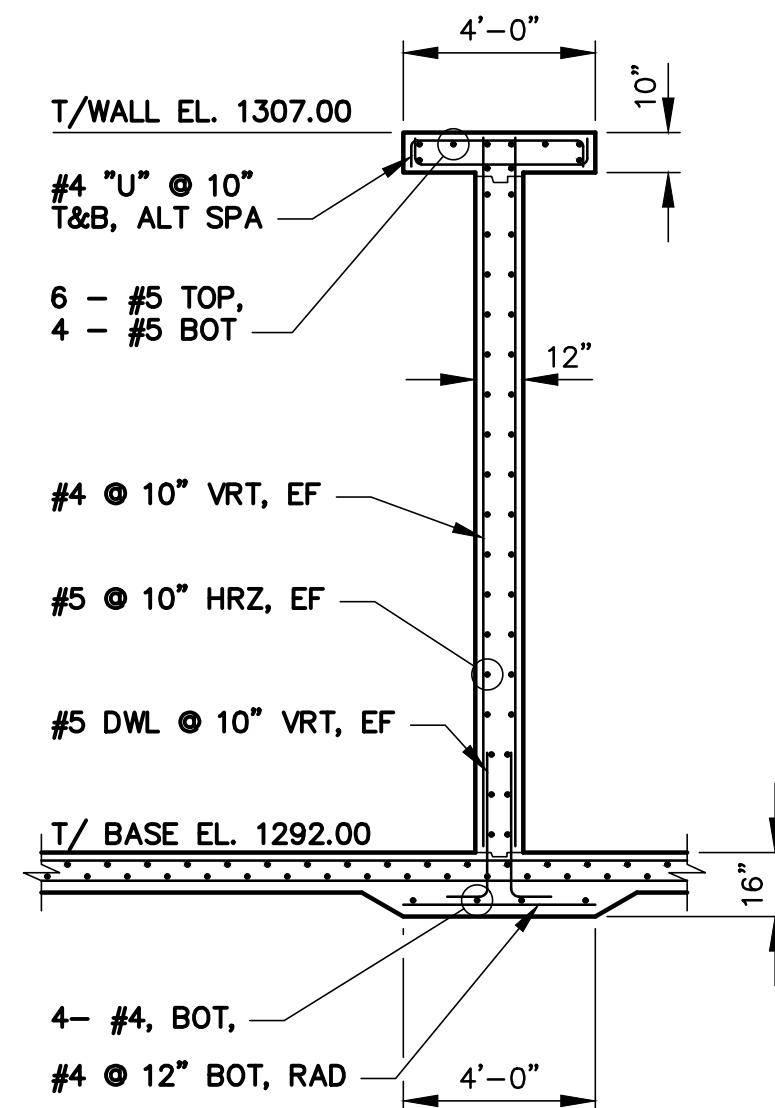
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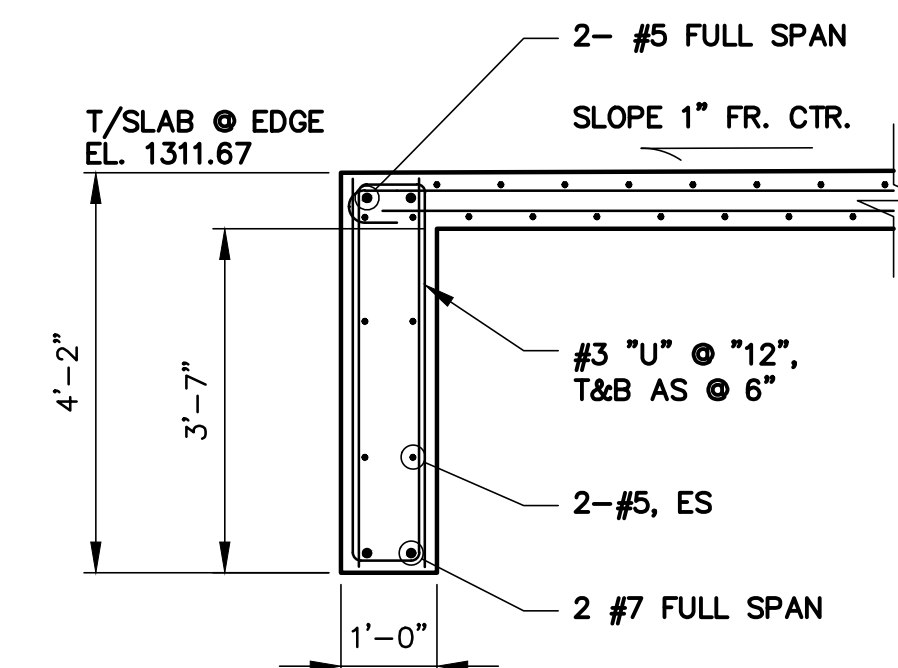
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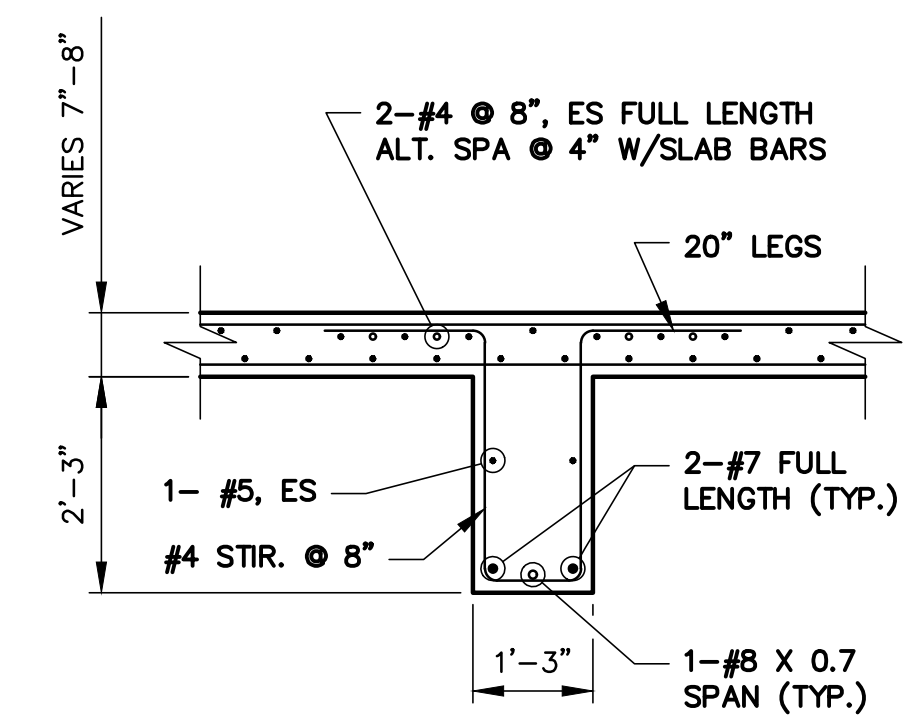
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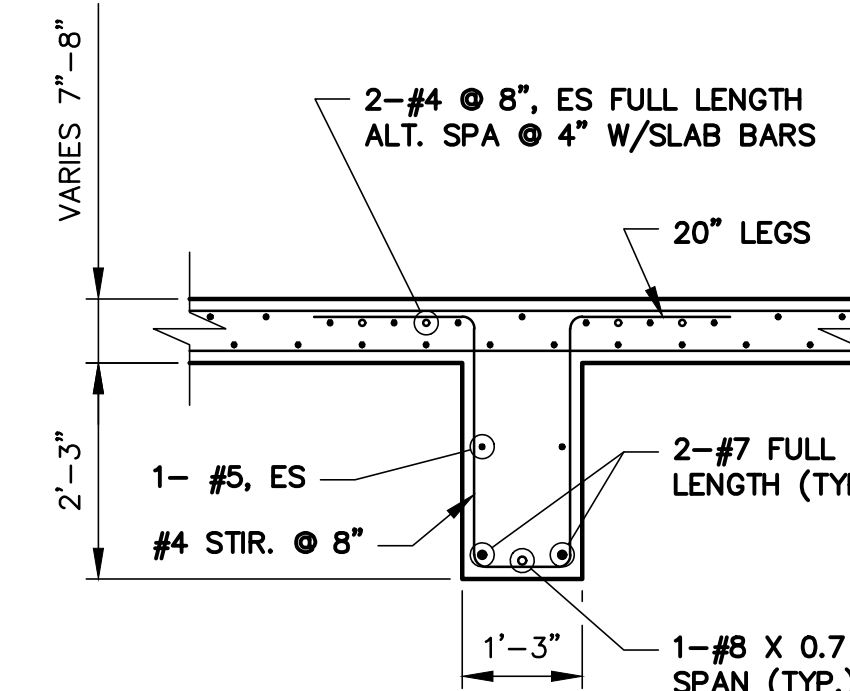
WALL I-B
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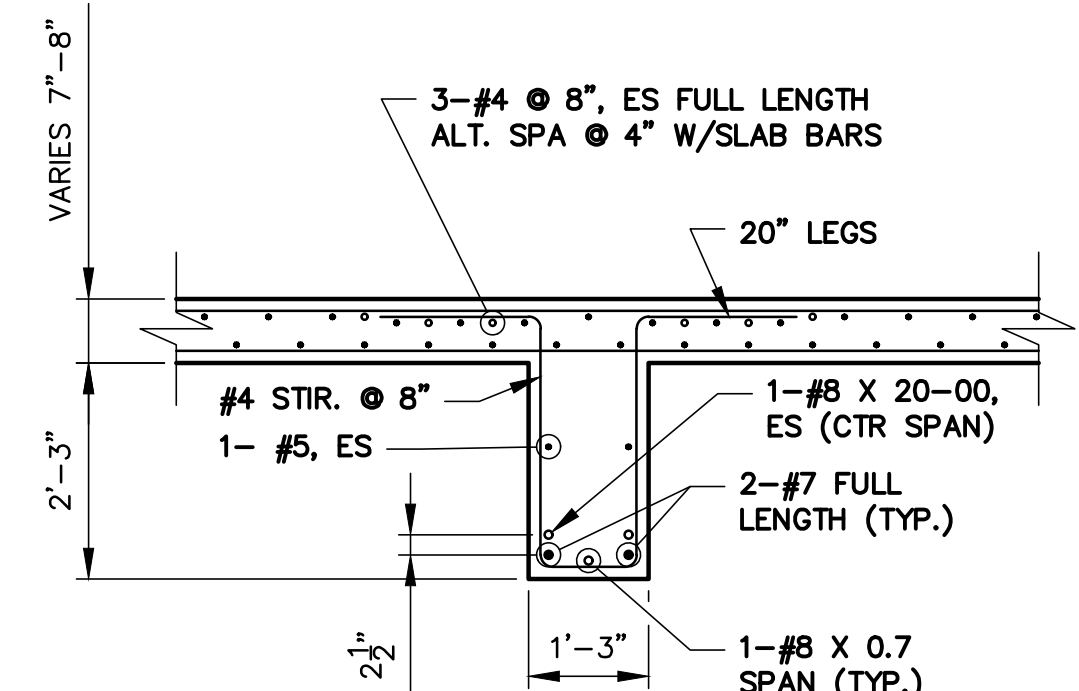
BEAM 1
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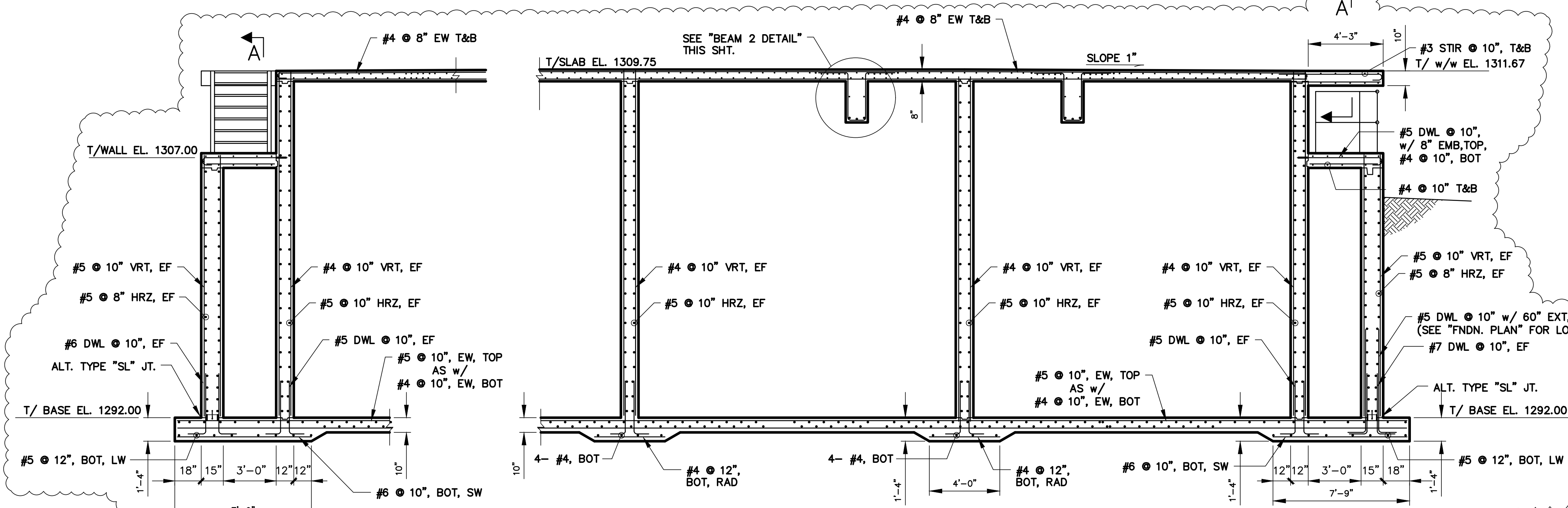
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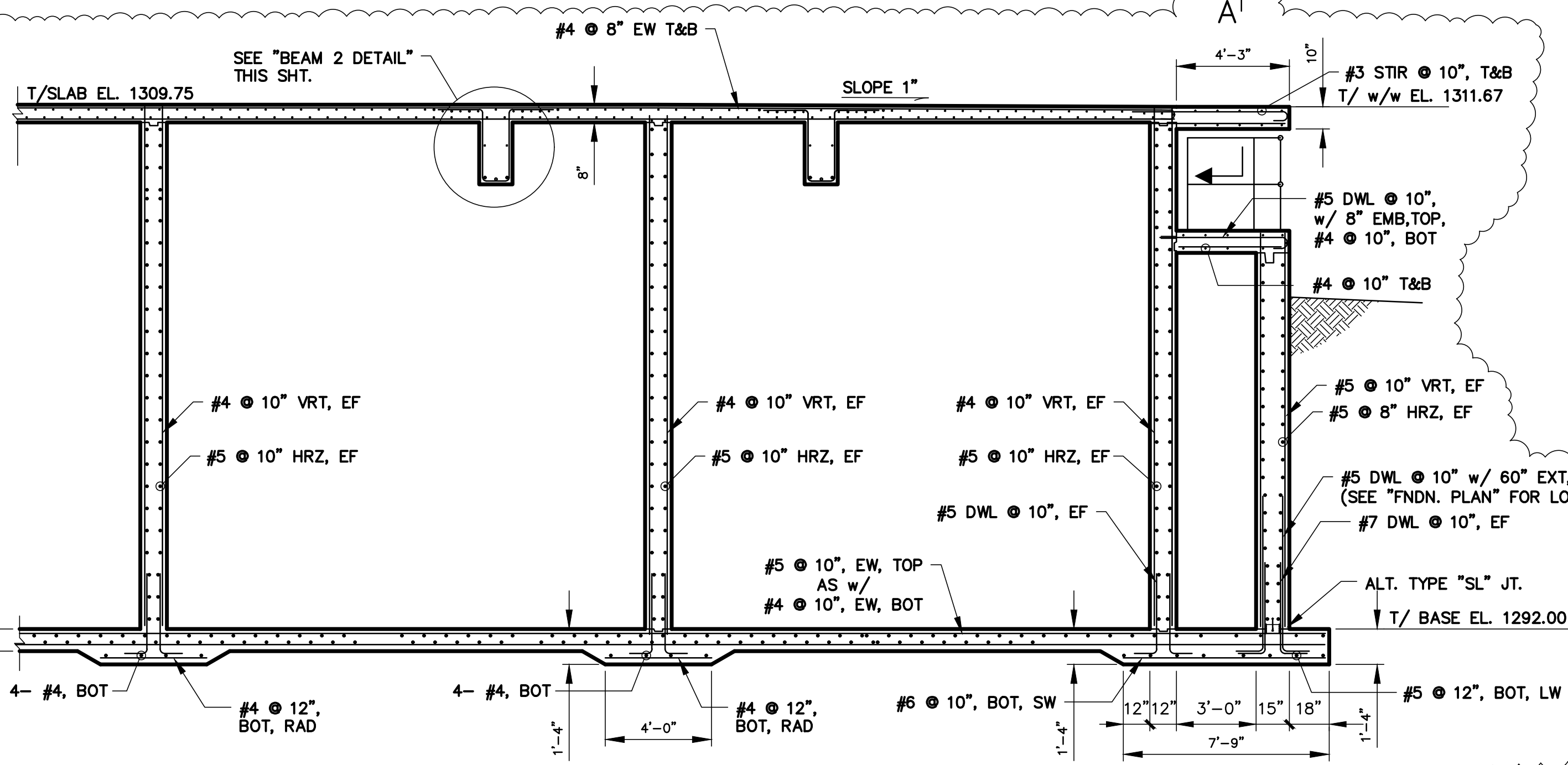
BEAM 3
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BEAM 4
SCALE: 1/2" = 1'-0"



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

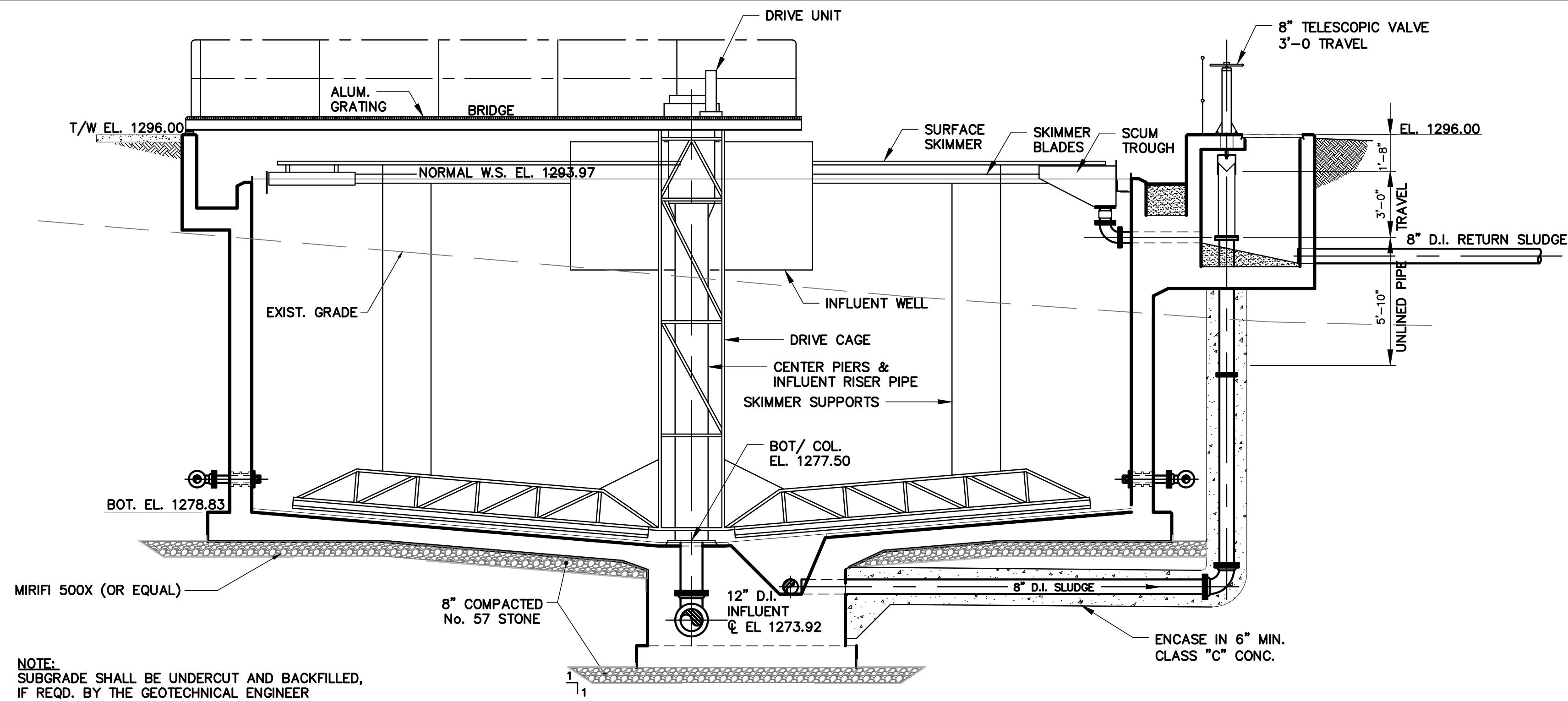


SECTION C-C
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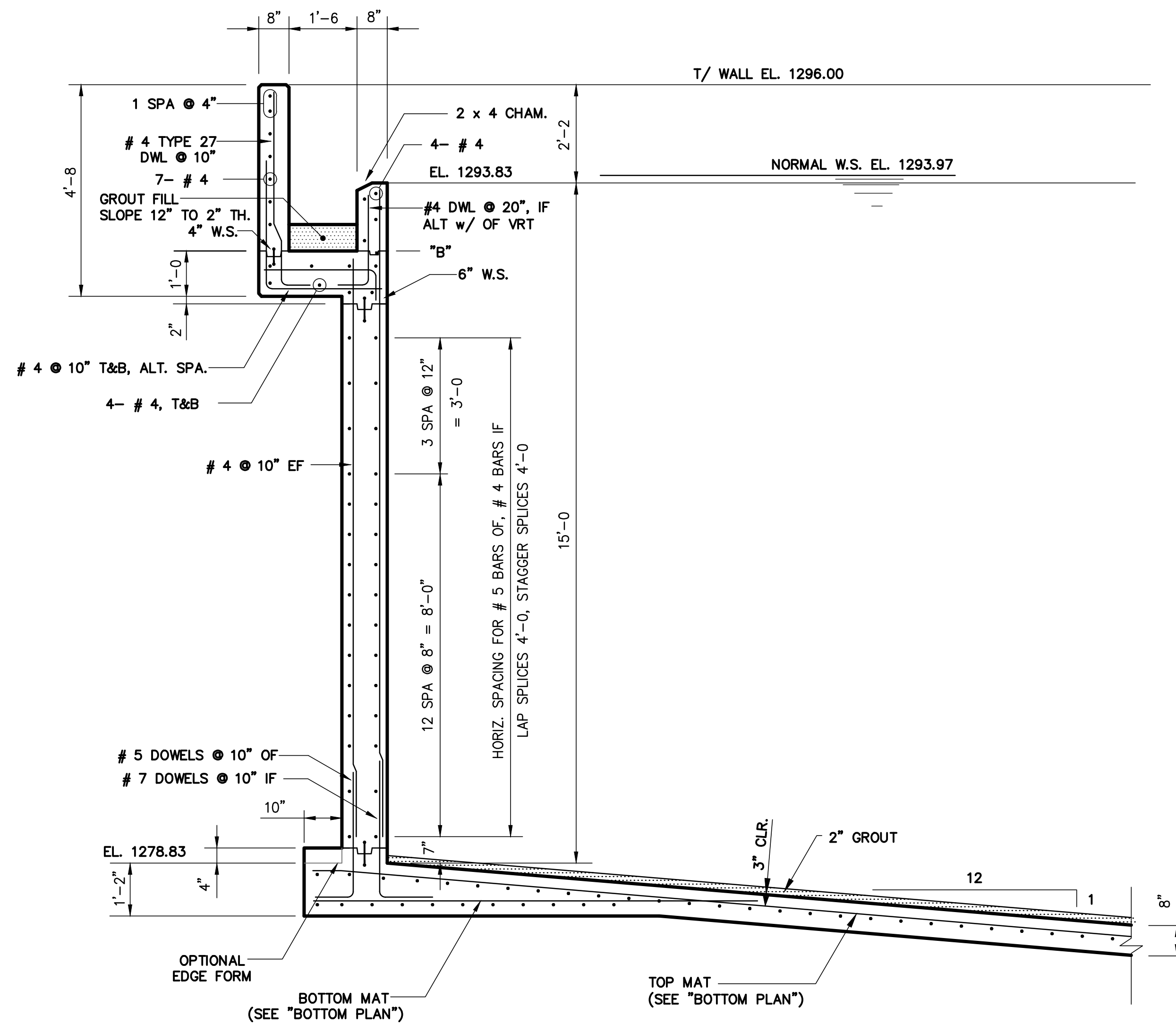


REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
		AERATION BASIN WALLS & SECTIONS	
DRAWN	CHECKED		
JDC	GBT	SCALE: AS SHOWN	DATE: JANUARY 2024
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ALBANY ST. SIMONS ISLAND	SHEET 20 OF 103

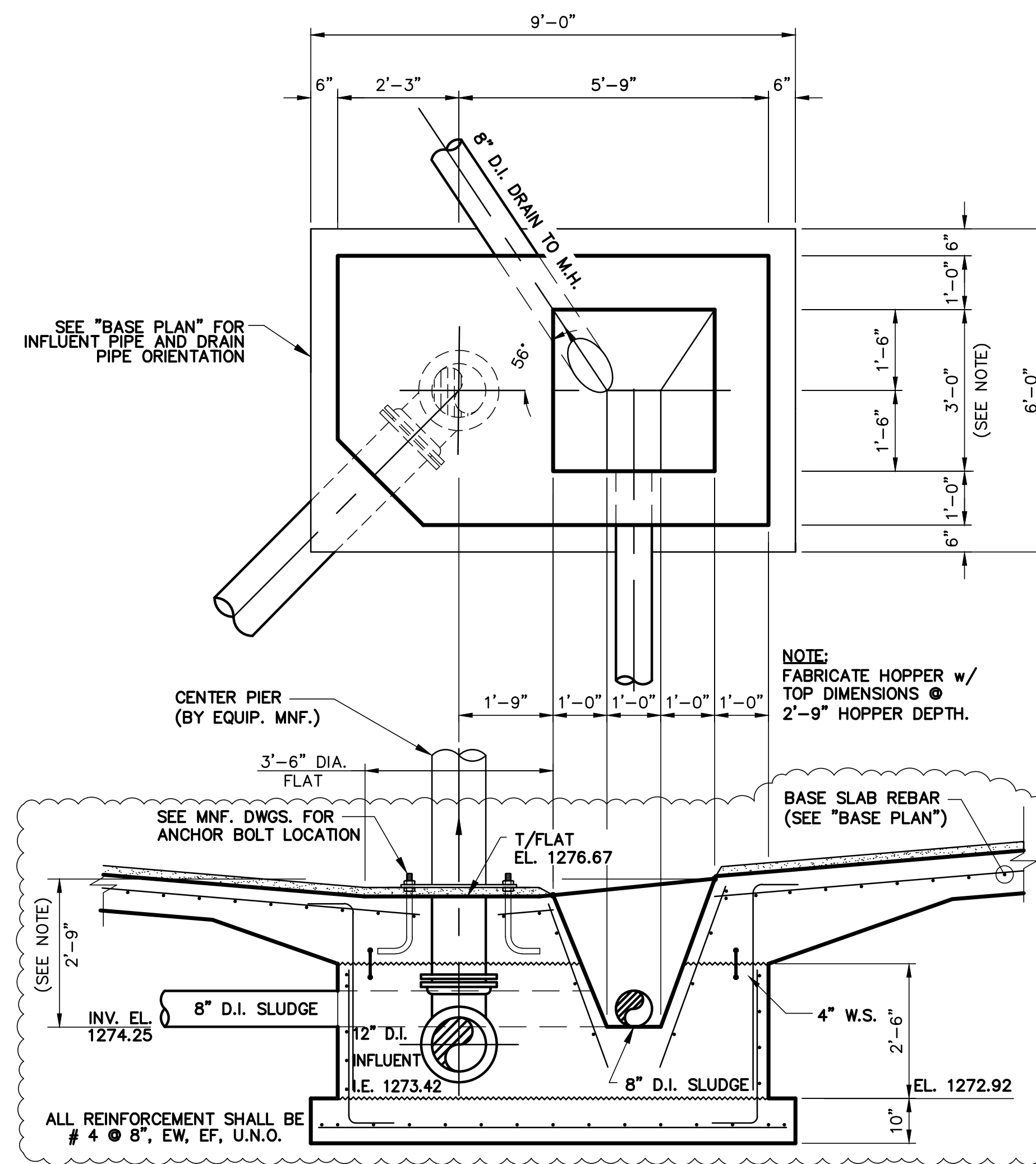
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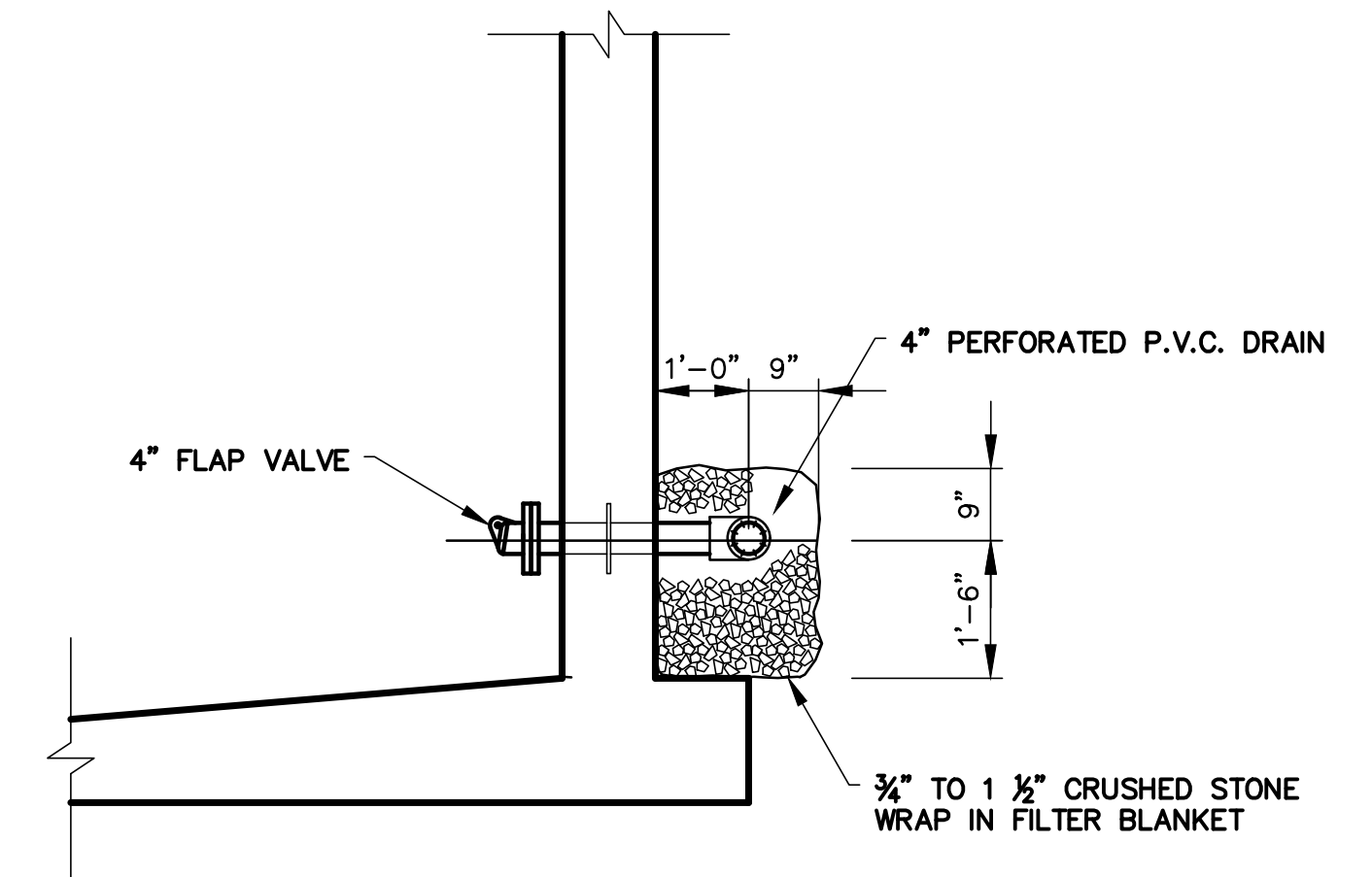
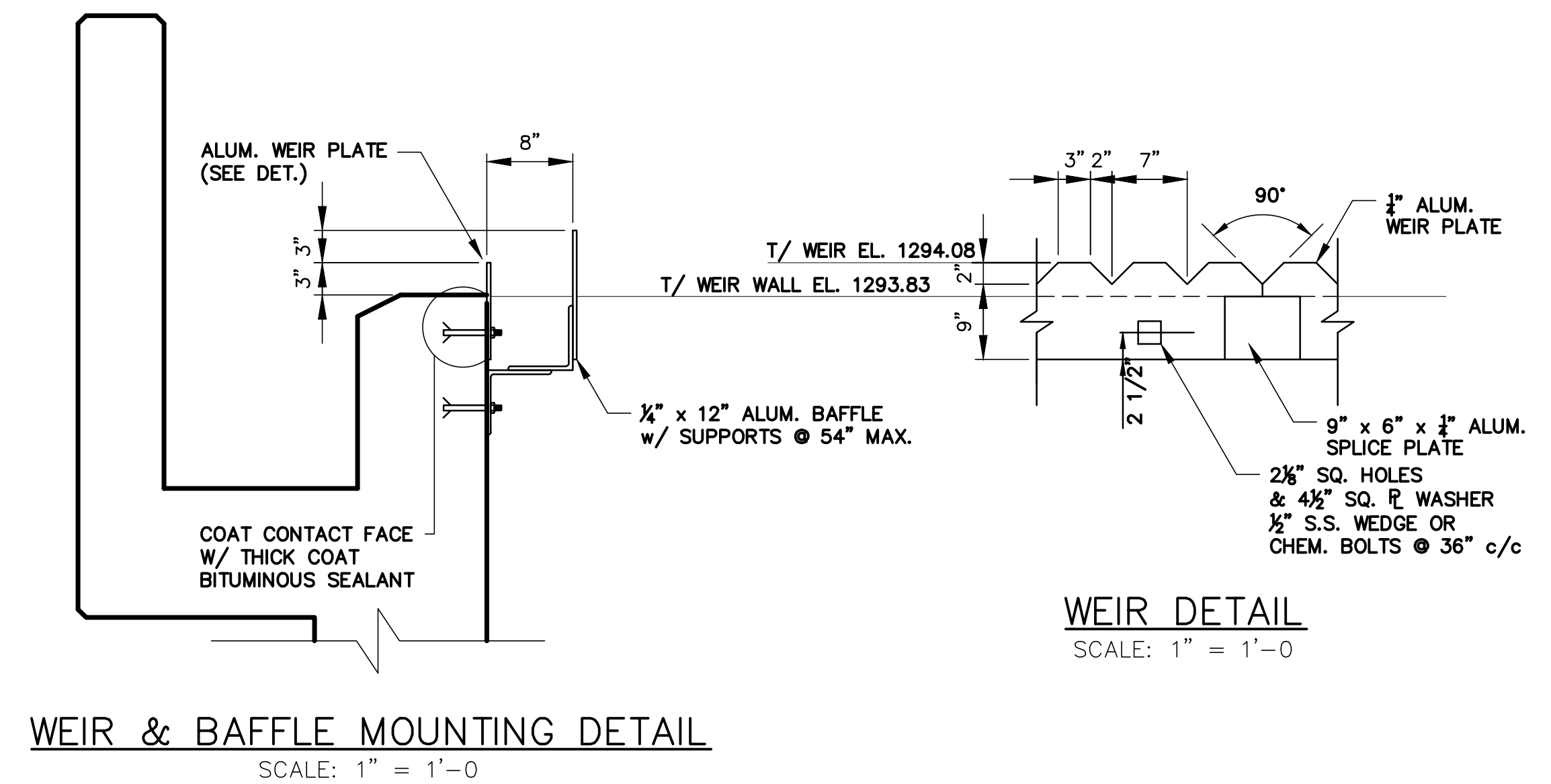
COMPOSITE SECTION
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TYPICAL WALL SECTION
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CENTER PIER BASE & HOPPER DETAIL
SCALE: 1/2" = 1'-0"

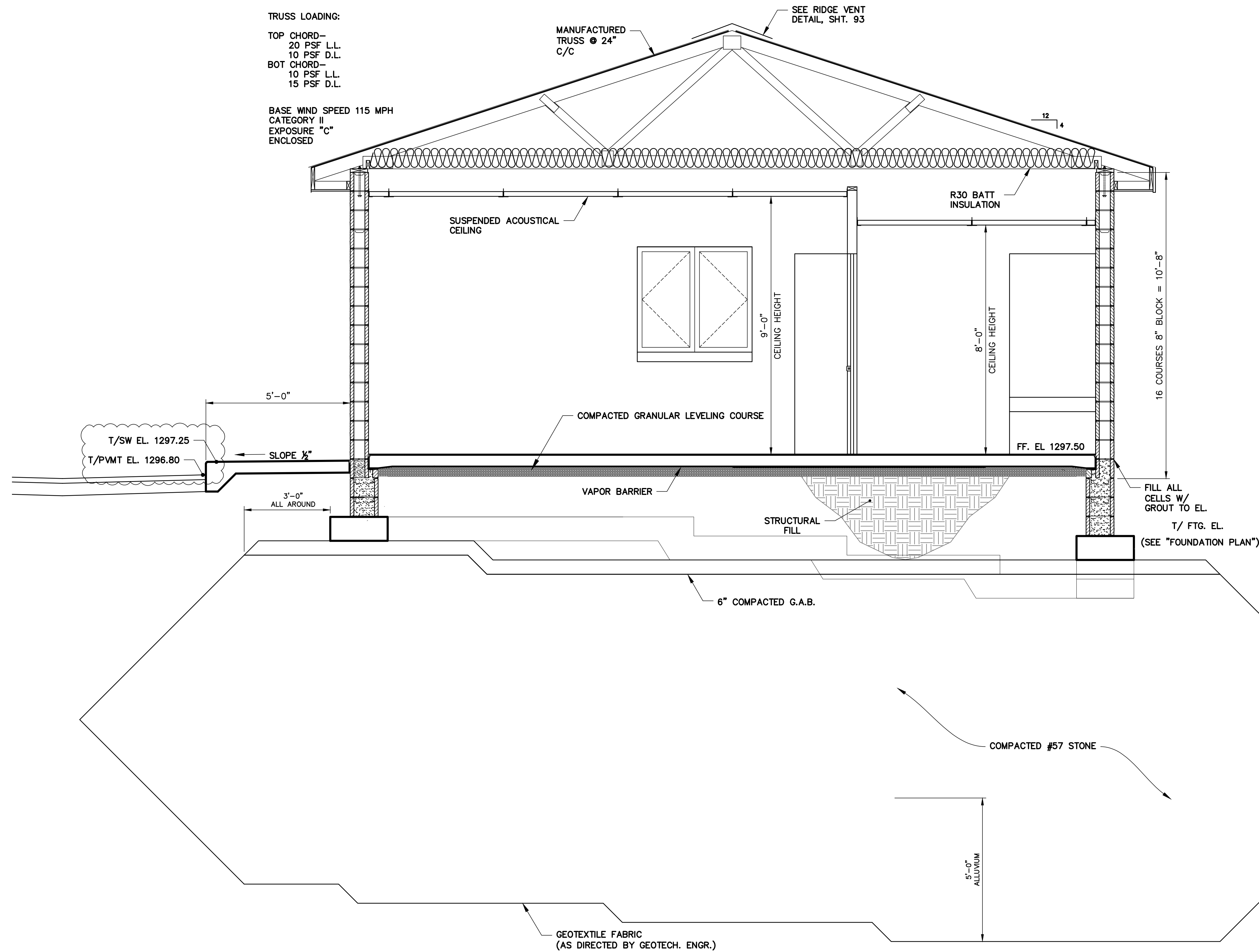


TYPICAL DRAIN DETAIL
N.T.S.



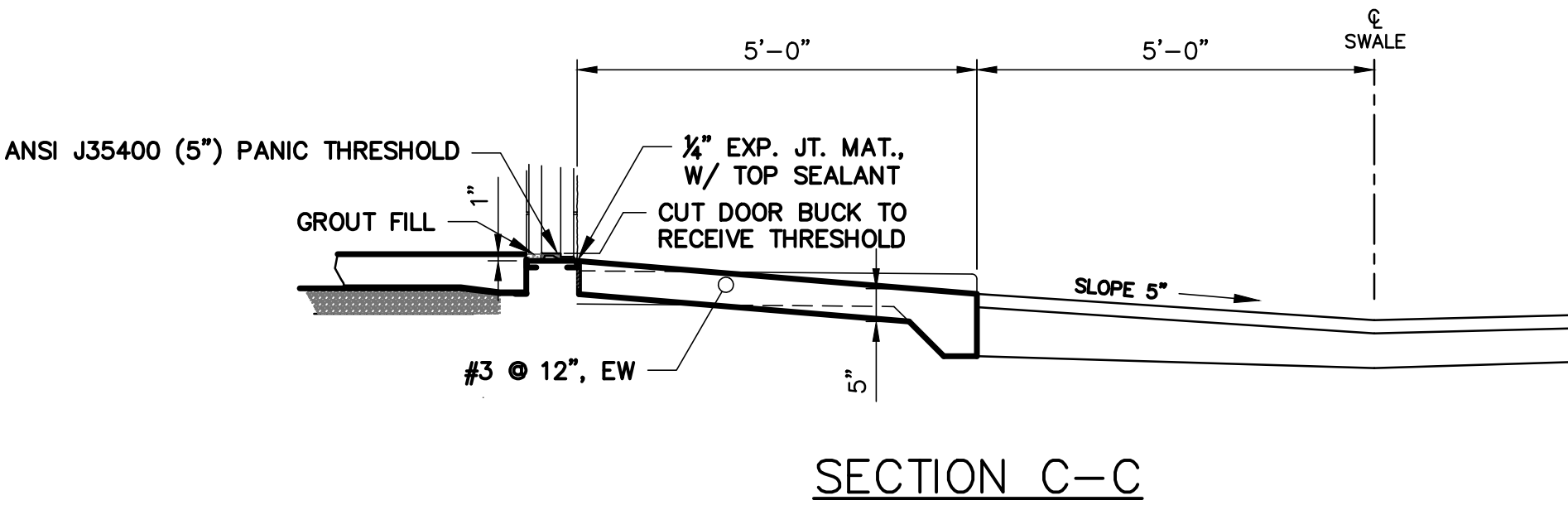
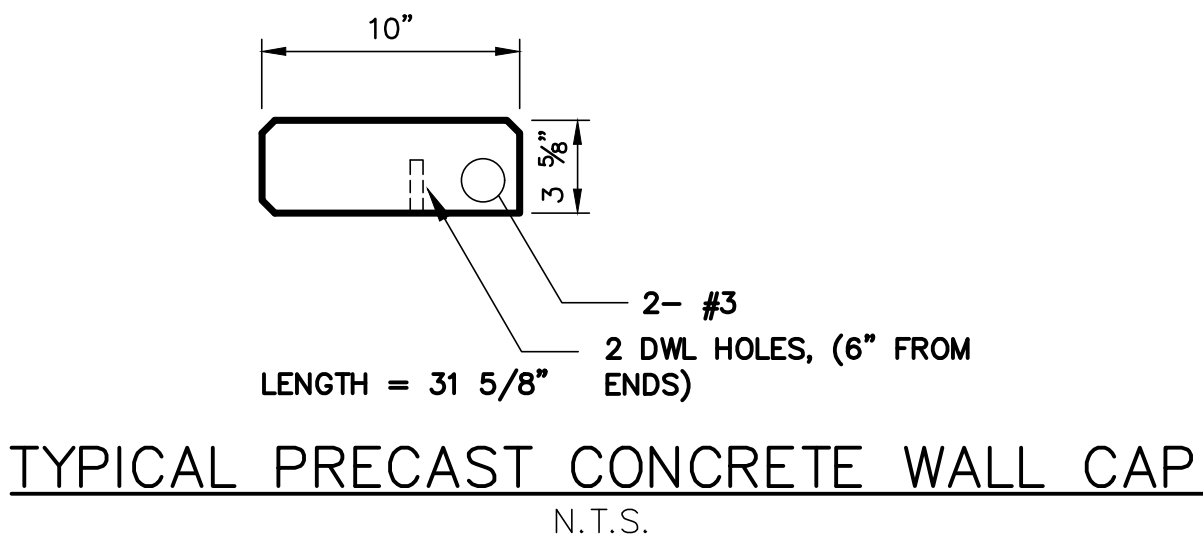
REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25			
		CLARIFIER DETAILS	
DRAWN	CHECKED		
JDC	GBT	SCALE: AS SHOWN	DATE: JANUARY 2024
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA AKEN ST. SIMONS ISLAND	SHEET 25 OF 103

P:\Dawsonville\182181 Flat Creek WPCP\Drawings\182181 Control Building.dwg

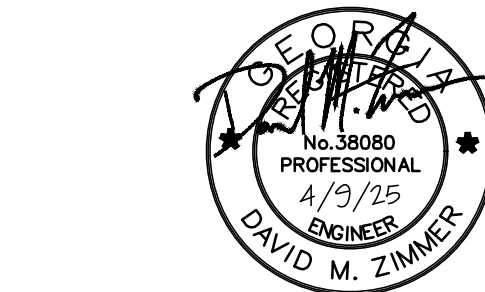
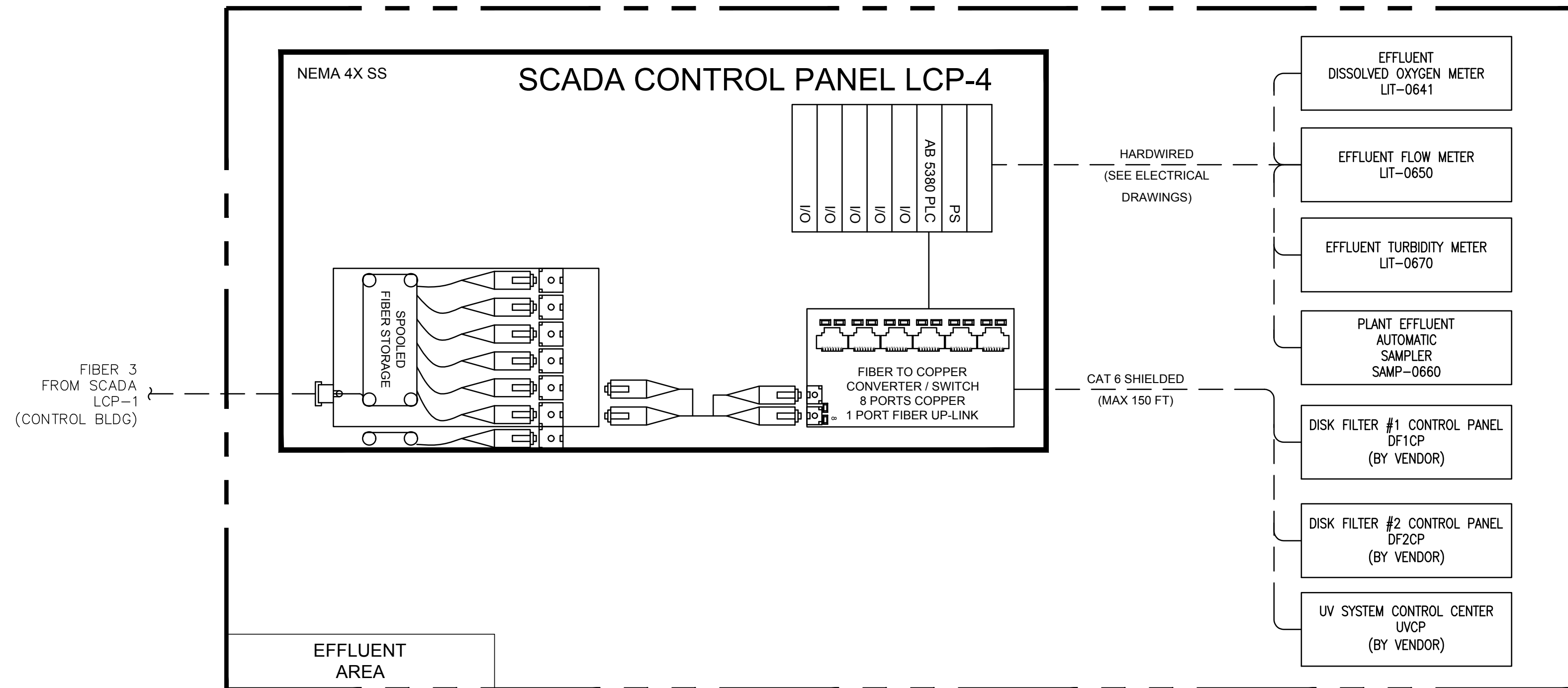
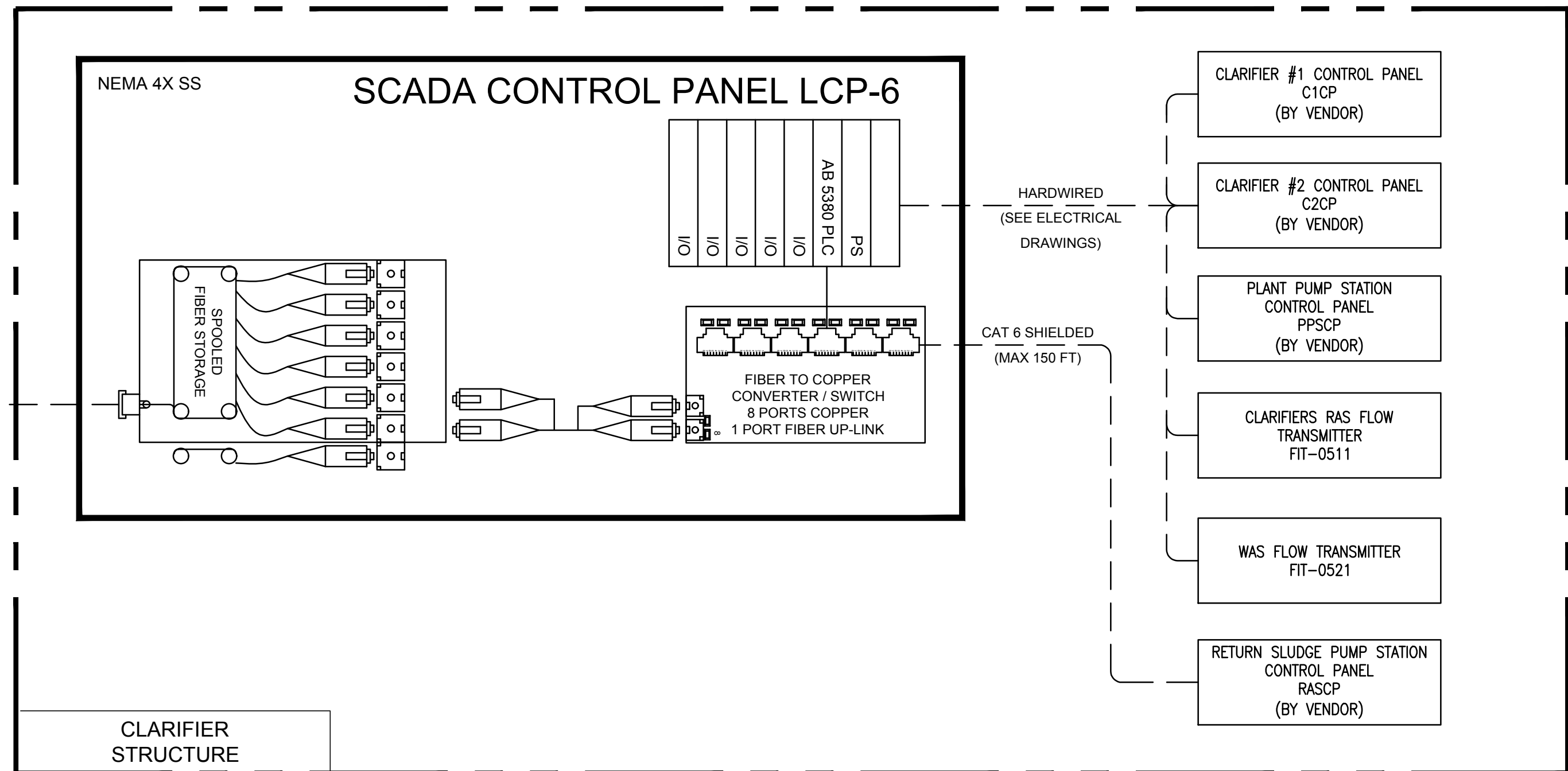
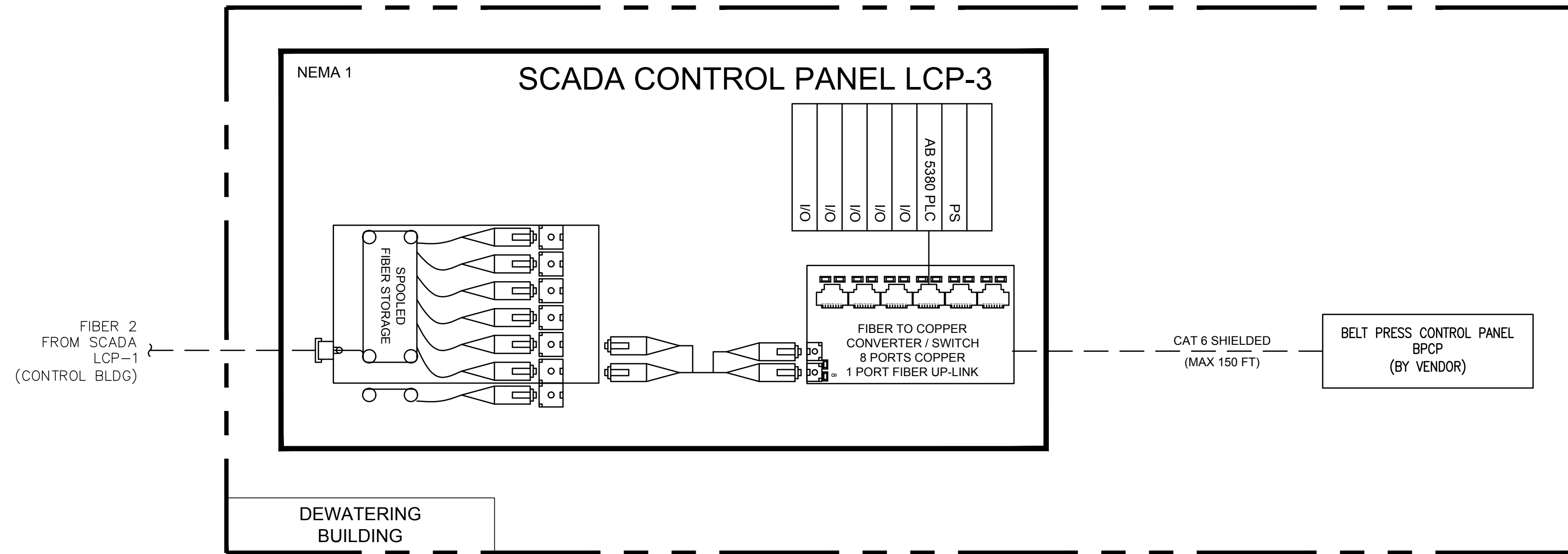
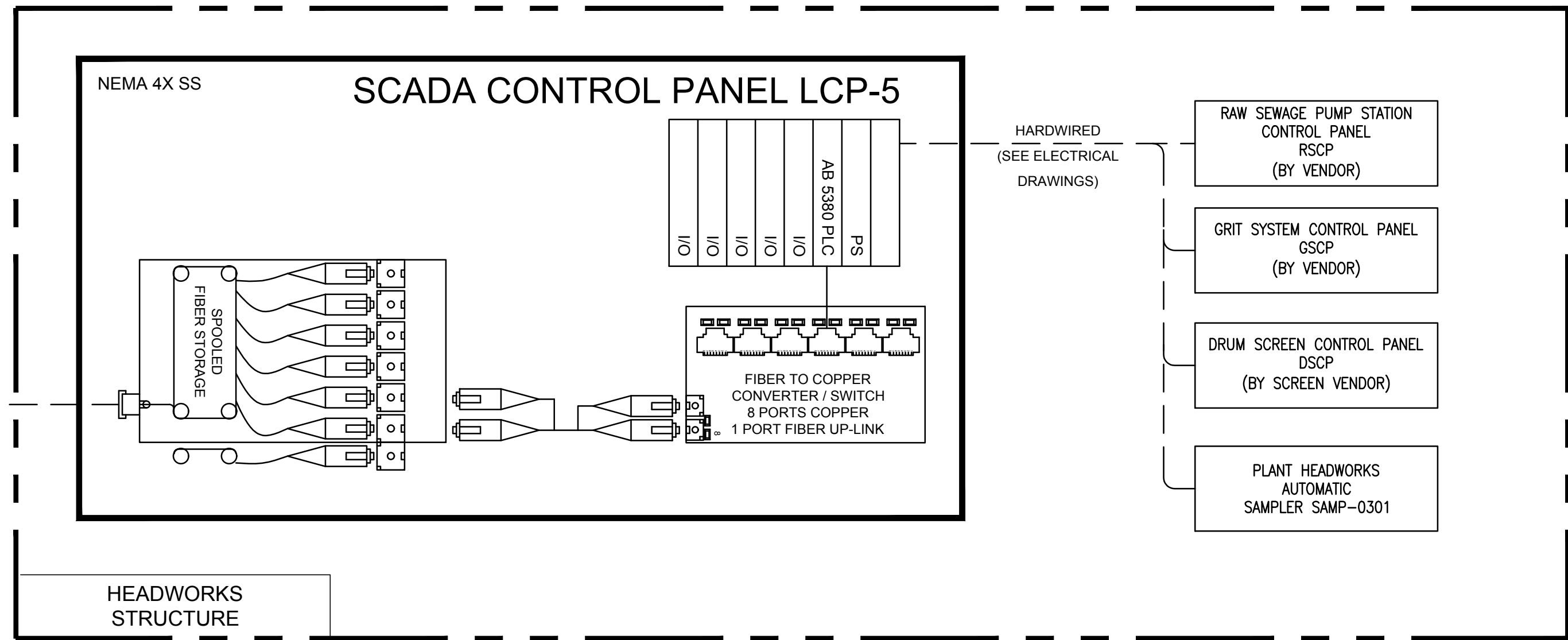
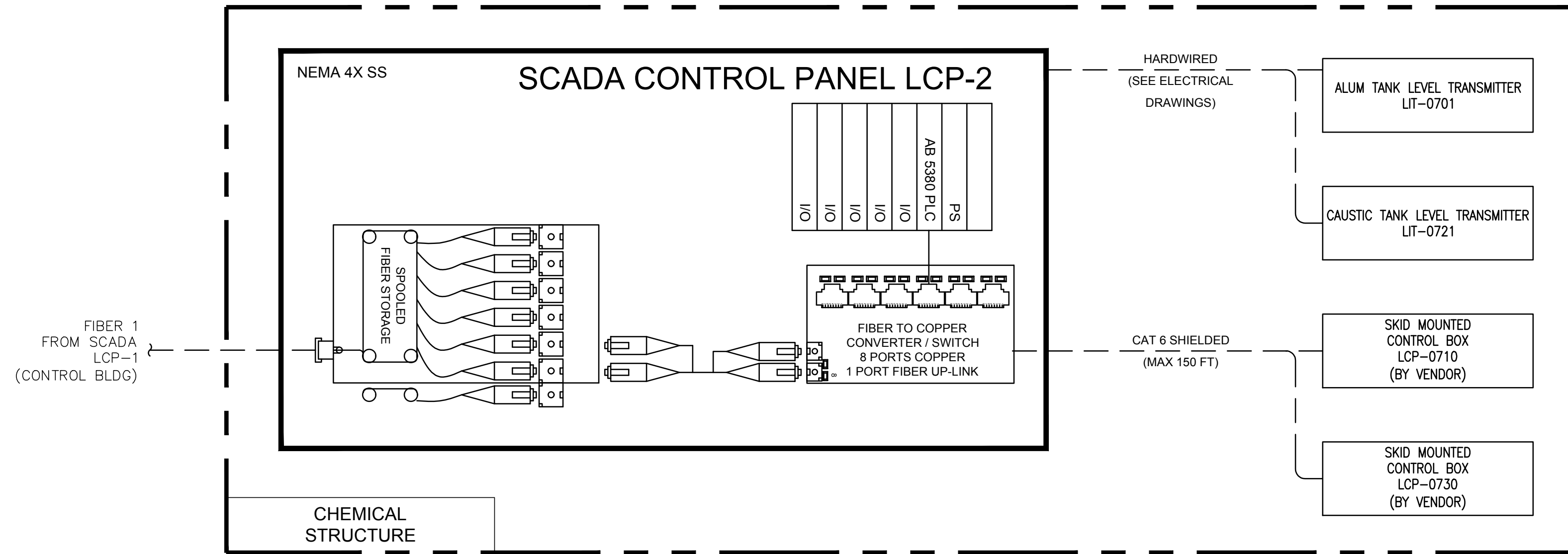


COMPOSITE SECTION

NOTES:
SEE "SUBSURFACE INVESTIGATION REPORT", GROUND IMPROVEMENT RECOMMENDATIONS, BY GEOSYSTEMS, DATED OCT. 21, 2022 FOR SUBGRADE PREPARATION.



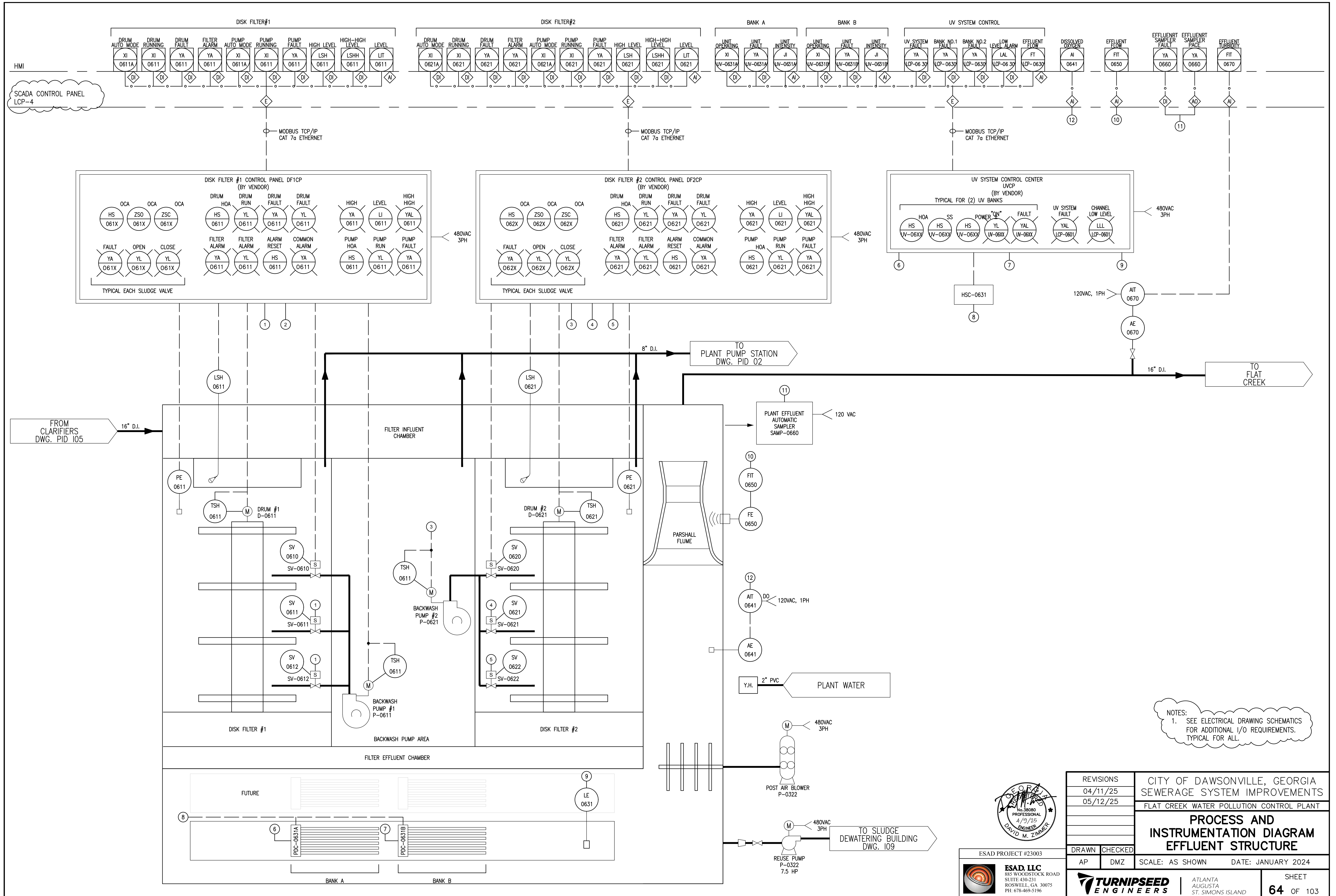
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04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25			
DRAWN	CHECKED	CONTROL BUILDING SECTIONS & DETAILS	
JDC	GBT	SCALE: 1/2" = 1'-0" DATE: JANUARY 2024	
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA AKEN ST. SIMONS ISLAND	
		SHEET 55 OF 103	

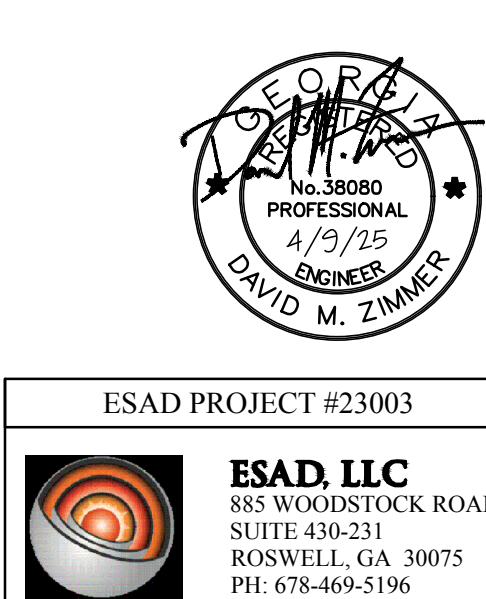
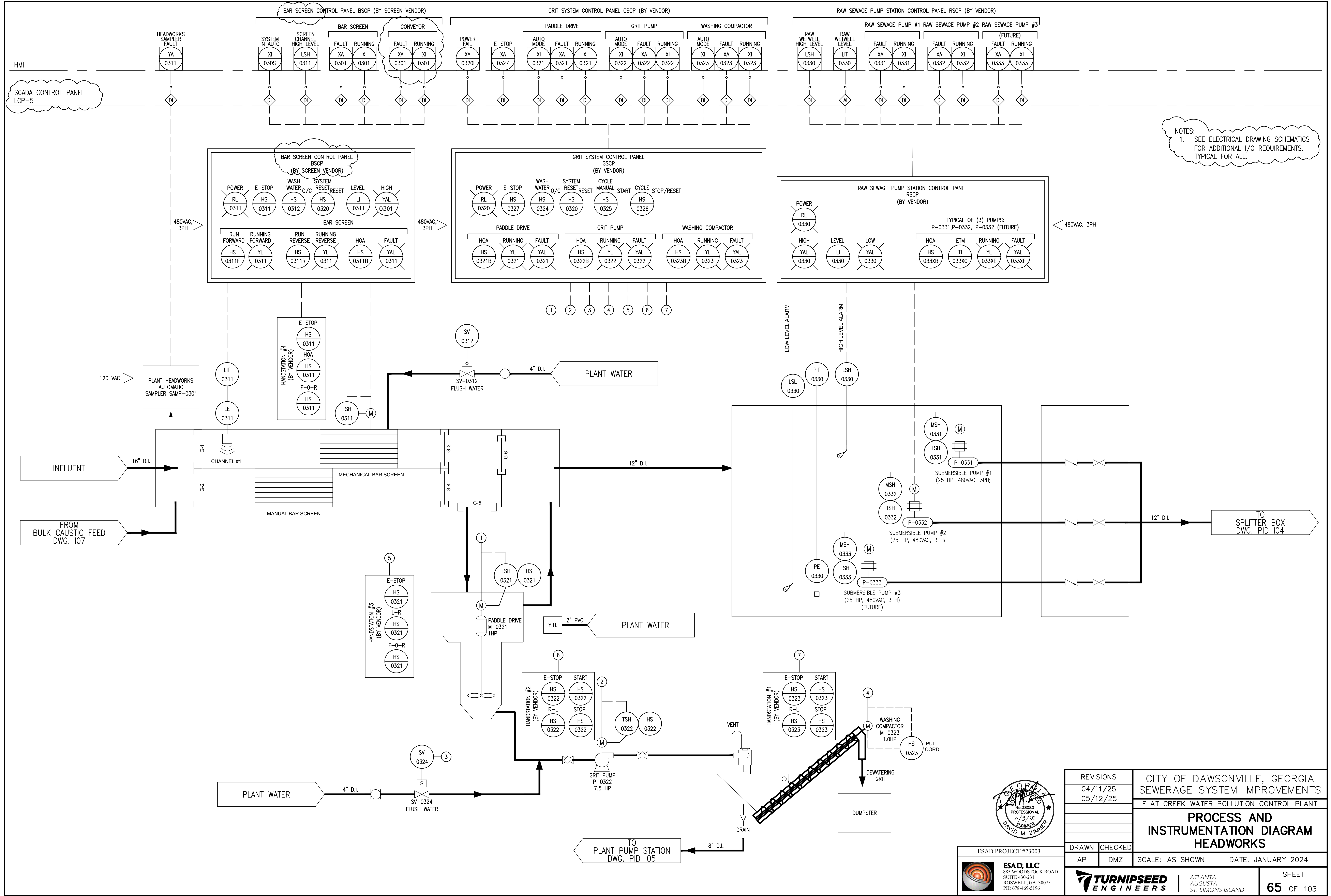


ESAD PROJECT #23003

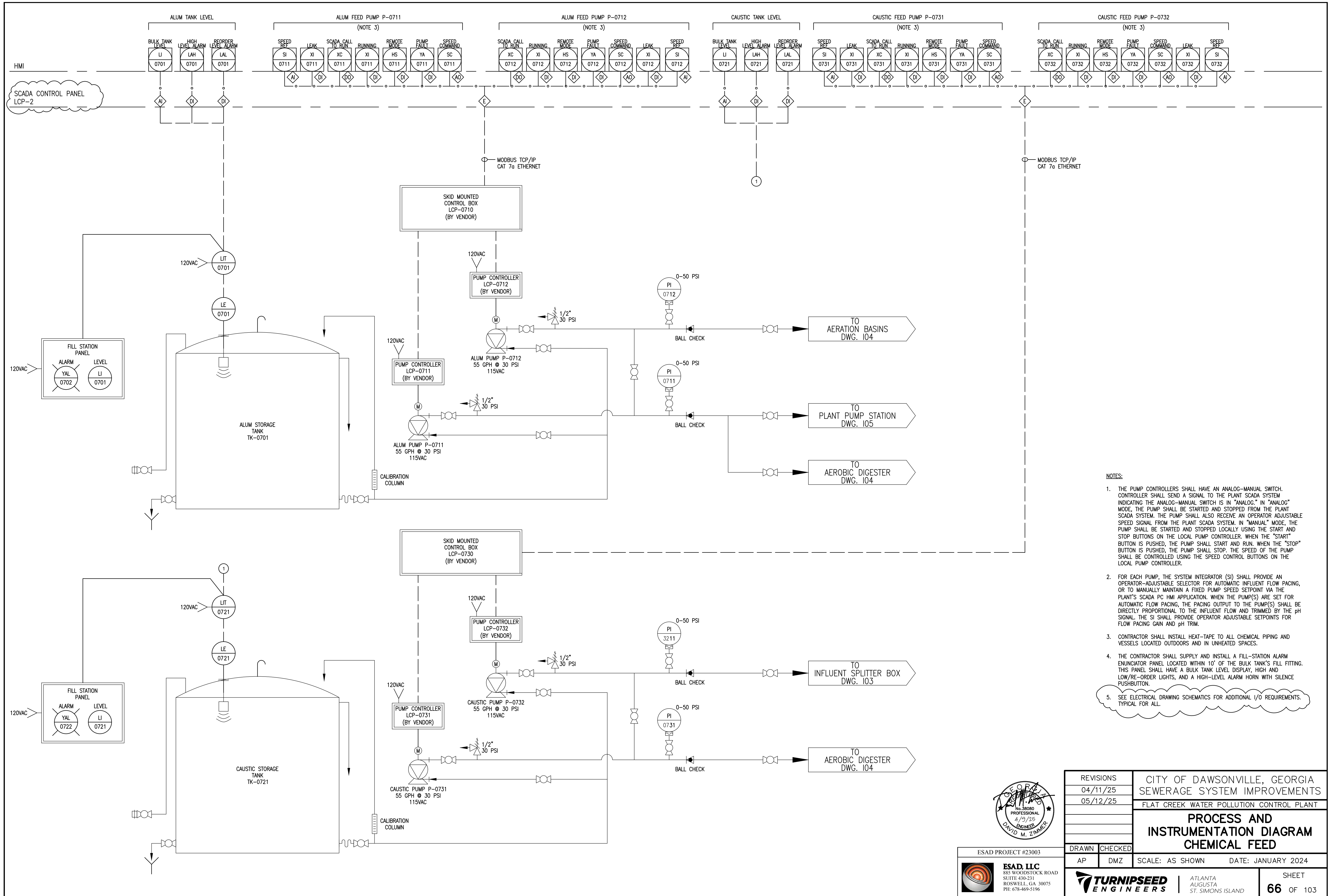
ESAD, LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
		PROCESS AND SCADA PLANT ARCHITECTURE 2 of 2	
DRAWN	CHECKED		
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
		TURNIPSEED ENGINEERS	
		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 60A OF 103	





REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25		PROCESS AND INSTRUMENTATION DIAGRAM HEADWORKS	
05/12/25			
DRAWN		SCALE: AS SHOWN	
AP		DATE: JANUARY 2024	
CHECKED		TURNIPSEED ENGINEERS	
AP		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 65 OF 103	



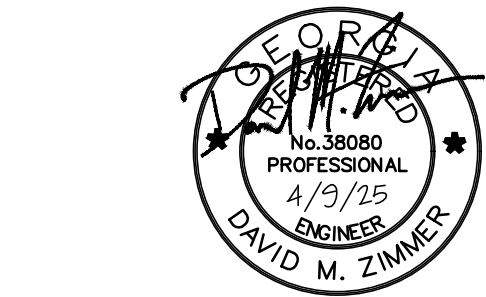
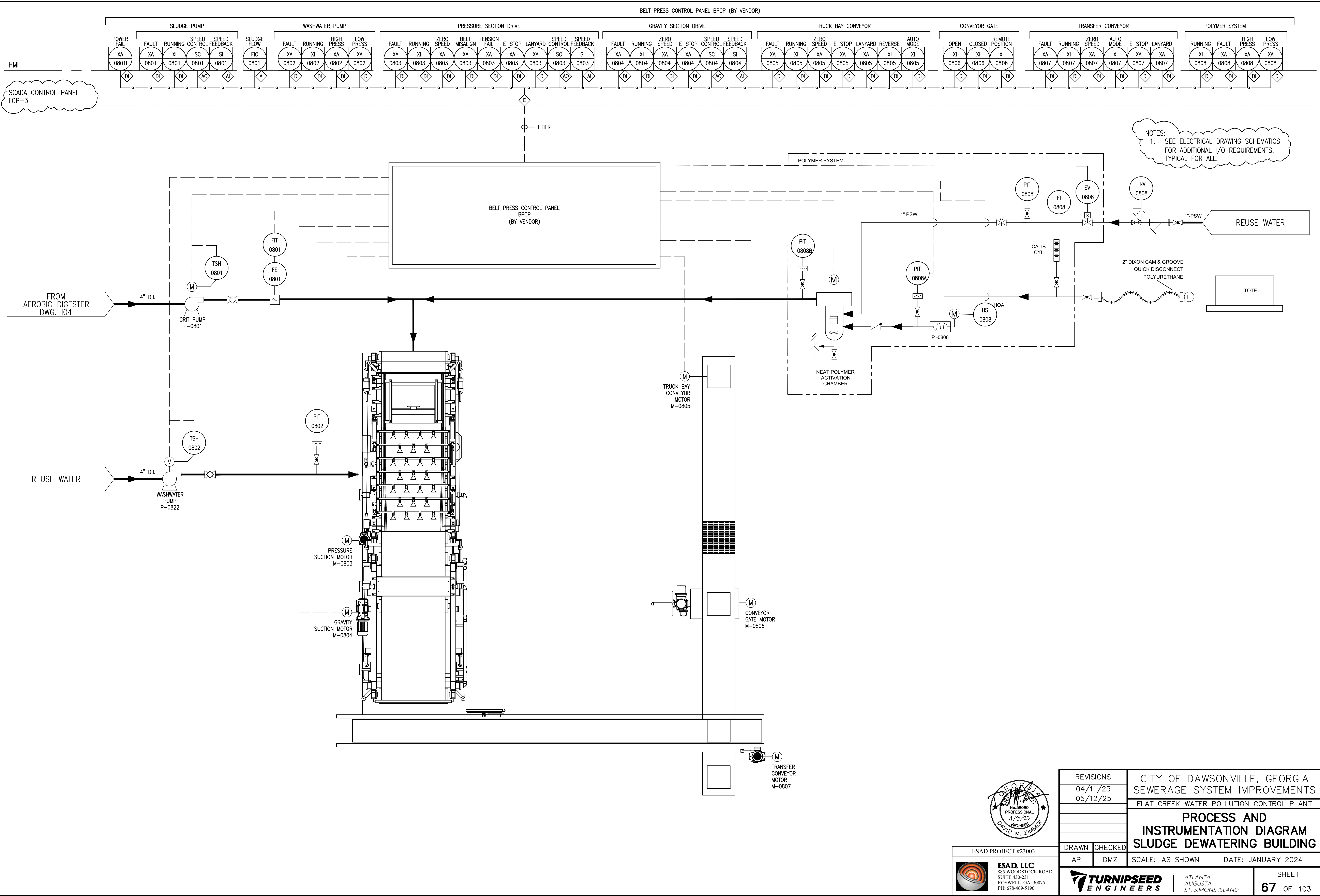
- NOTES:
1. THE PUMP CONTROLLERS SHALL HAVE AN ANALOG-MANUAL SWITCH. CONTROLLER SHALL SEND A SIGNAL TO THE PLANT SCADA SYSTEM INDICATING THE ANALOG-MANUAL SWITCH IS IN "ANALOG." IN "ANALOG" MODE, THE PUMP SHALL BE STARTED AND STOPPED FROM THE PLANT SCADA SYSTEM. THE PUMP SHALL ALSO RECEIVE AN OPERATOR ADJUSTABLE SPEED SIGNAL FROM THE PLANT SCADA SYSTEM. IN "MANUAL" MODE, THE PUMP SHALL BE STARTED AND STOPPED LOCALLY USING THE START AND STOP BUTTONS ON THE LOCAL PUMP CONTROLLER. WHEN THE "START" BUTTON IS PUSHED, THE PUMP SHALL START AND RUN. WHEN THE "STOP" BUTTON IS PUSHED, THE PUMP SHALL STOP. THE SPEED OF THE PUMP SHALL BE CONTROLLED USING THE SPEED CONTROL BUTTONS ON THE LOCAL PUMP CONTROLLER.
 2. FOR EACH PUMP, THE SYSTEM INTEGRATOR (SI) SHALL PROVIDE AN OPERATOR-ADJUSTABLE SELECTOR FOR AUTOMATIC INFLUENT FLOW PACING, OR TO MANUALLY MAINTAIN A FIXED PUMP SPEED SETPOINT VIA THE PLANT'S SCADA PC HMI APPLICATION. WHEN THE PUMP(S) ARE SET FOR AUTOMATIC FLOW PACING, THE PACING OUTPUT TO THE PUMP(S) SHALL BE DIRECTLY PROPORTIONAL TO THE INFLUENT FLOW AND TRIMMED BY THE pH SIGNAL. THE SI SHALL PROVIDE OPERATOR ADJUSTABLE SETPOINTS FOR FLOW PACING GAIN AND pH TRIM.
 3. CONTRACTOR SHALL INSTALL HEAT-TAPE TO ALL CHEMICAL PIPING AND VESSELS LOCATED OUTDOORS AND IN UNHEATED SPACES.
 4. THE CONTRACTOR SHALL SUPPLY AND INSTALL A FILL-STATION ALARM ENUNCIATOR PANEL LOCATED WITHIN 10' OF THE BULK TANK'S FILL FITTING. THIS PANEL SHALL HAVE A BULK TANK LEVEL DISPLAY, HIGH AND LOW/RE-ORDER LIGHTS, AND A HIGH-LEVEL ALARM HORN WITH SILENCE PUSHBUTTON.
 5. SEE ELECTRICAL DRAWING SCHEMATICS FOR ADDITIONAL I/O REQUIREMENTS. TYPICAL FOR ALL.

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25		PROCESS AND INSTRUMENTATION DIAGRAM CHEMICAL FEED	
DRAWN	CHECKED	SCALE: AS SHOWN	DATE: JANUARY 2024
AP	DMZ	SHEET 66 OF 103	

ESAD PROJECT #23003

ESAD, LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

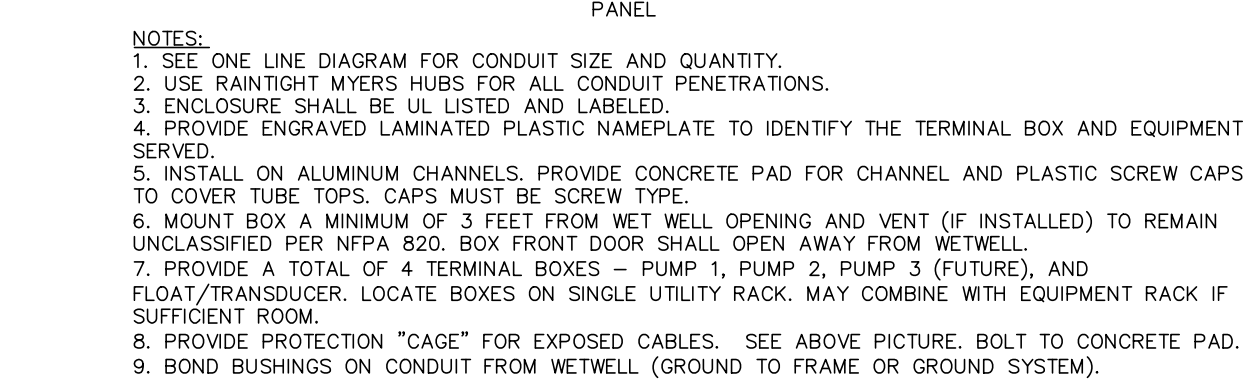
**TURNIPSEED
ENGINEERS** | ATLANTA
AUGUSTA
ST. SIMONS ISLAND



ESAD PROJECT #23003

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ROSSELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
PROCESS AND INSTRUMENTATION DIAGRAM SLUDGE DEWATERING BUILDING		SCALE: AS SHOWN DATE: JANUARY 2024	
DRAWN	CHECKED	TURNIPSEED ENGINEERS ATLANTA AUGUSTA ST. SIMONS ISLAND	
AP	DMZ		
		SHEET 67 OF 103	



TERMINAL BOX INSTALLATION DETAIL

SCALE: N.T.S



SCALE: $\frac{1}{4}" = 1'-0"$



SCALE: $\frac{1}{4}" = 1'-0"$

REVISONS		CITY OF DAWSONVILLE, GEORGIA	
04/11/25		SEWERAGE SYSTEM IMPROVEMENT	
05/12/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
		RAW SEWAGE PUMP STATION ELECTRICAL	
DRAWN	CHECKED		
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 69 OF 103



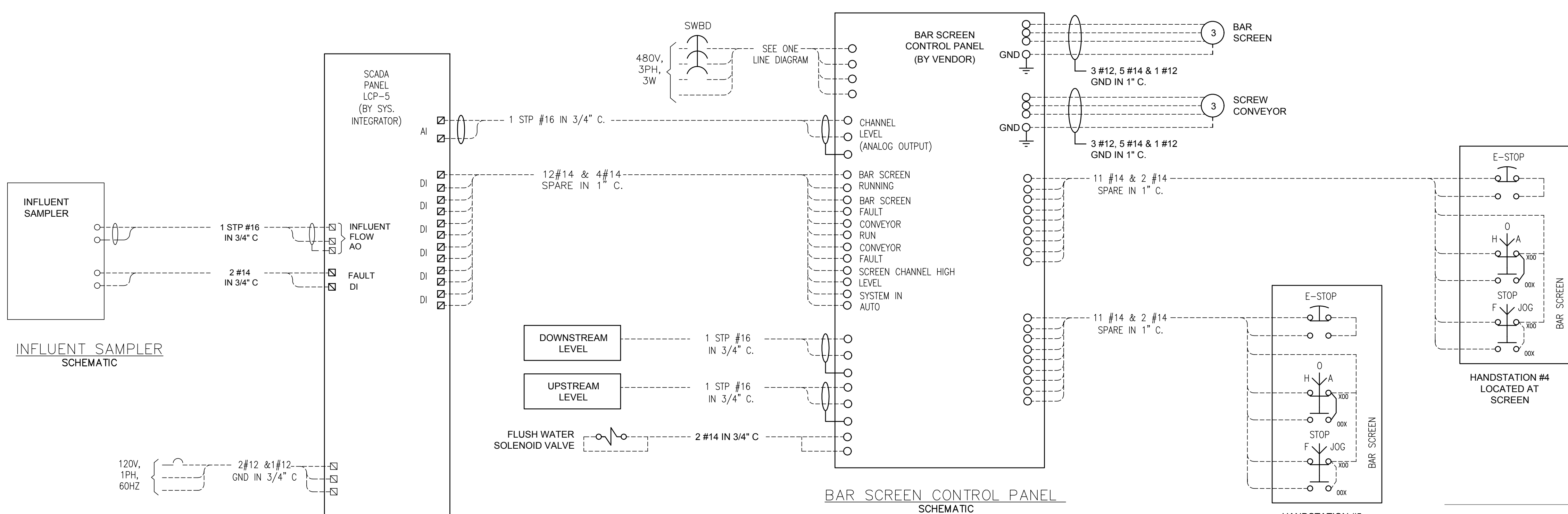
ESAD, LLC
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PH: 678-469-5196



TURNIPSEED
ENGINEERS

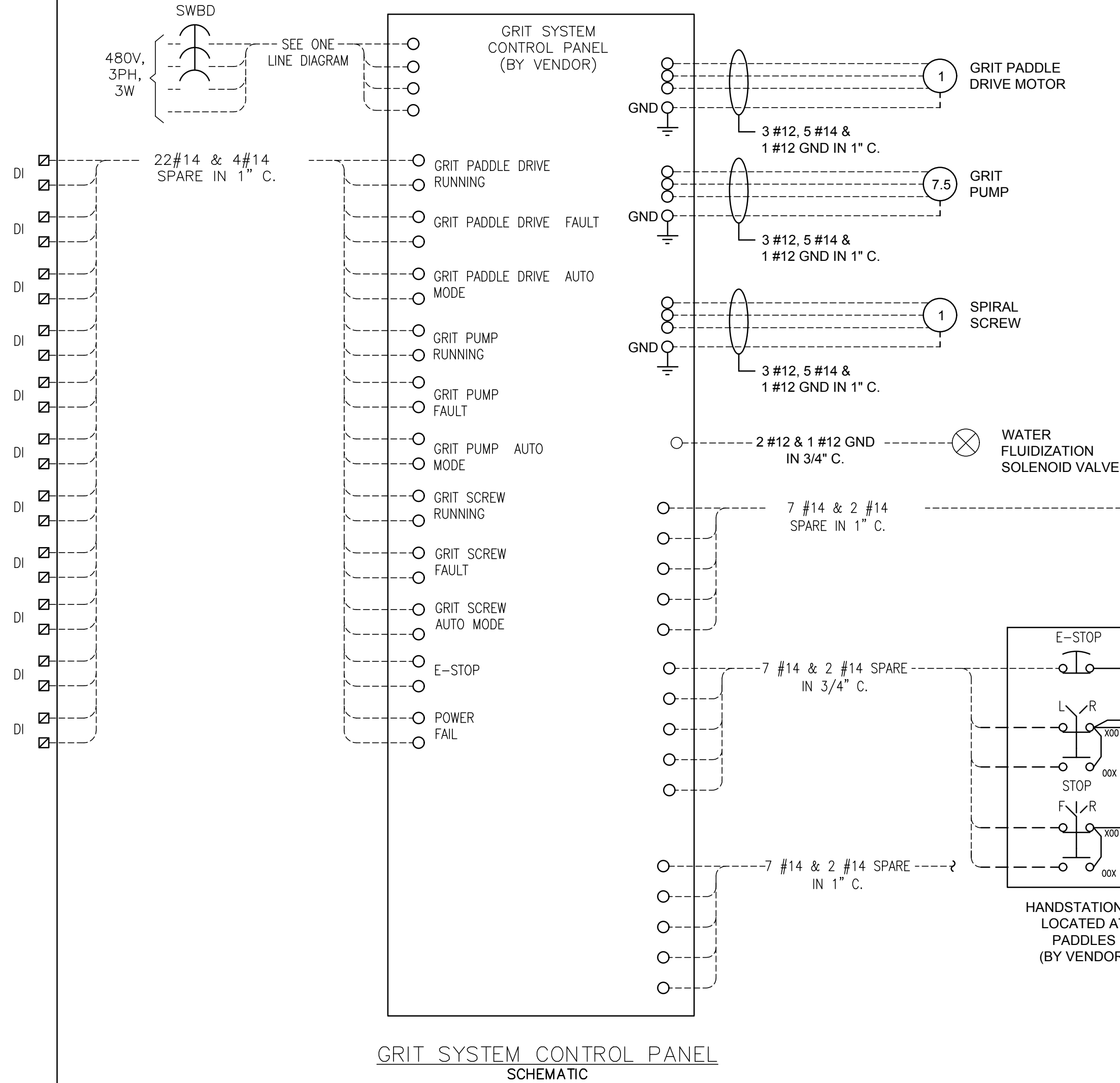
ATLANTA
AUGUSTA
ST. SIMONS ISLAND

SHEET
69 OF 103

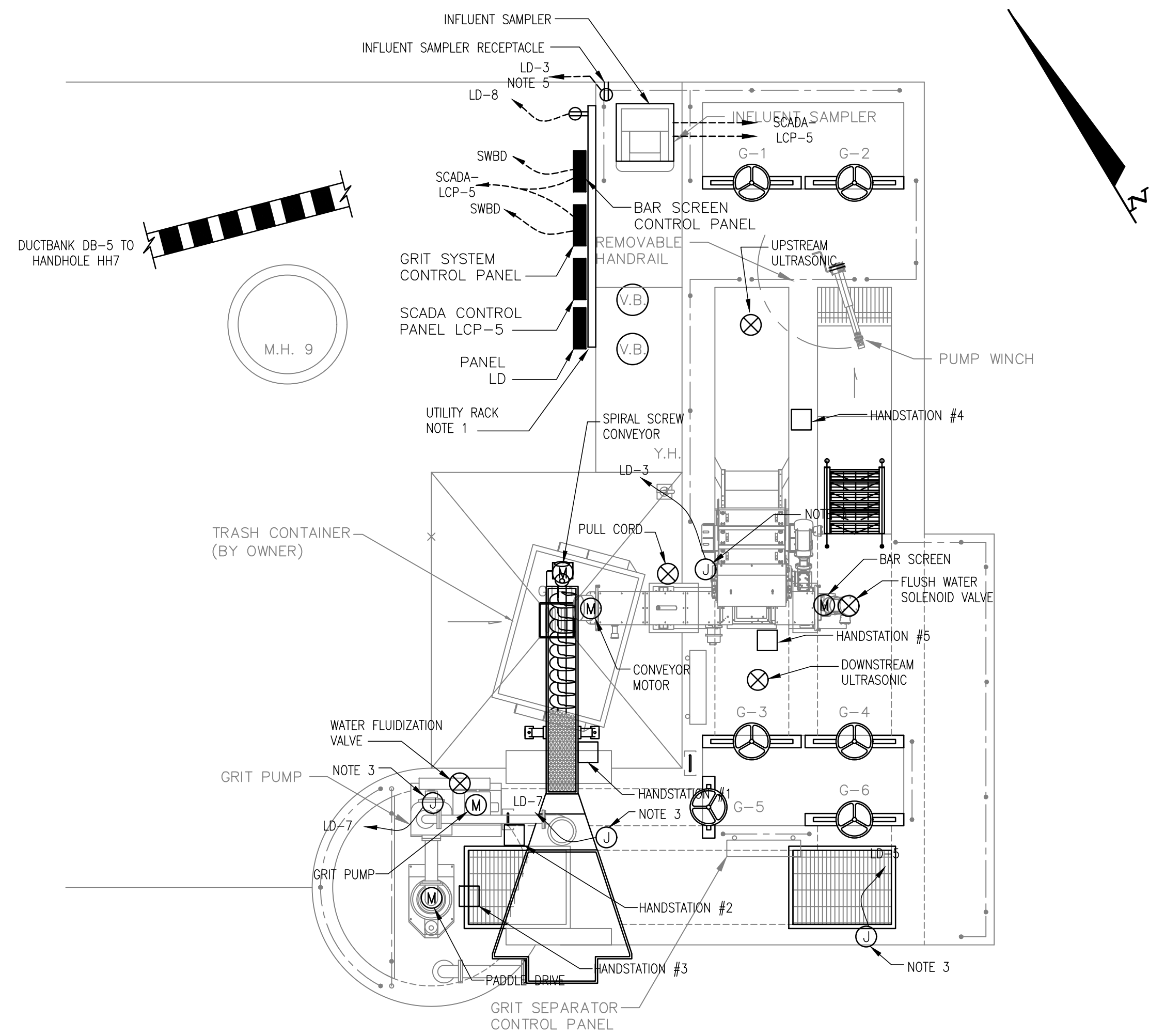


INFLUENT SAMPLER
SCHEMATIC

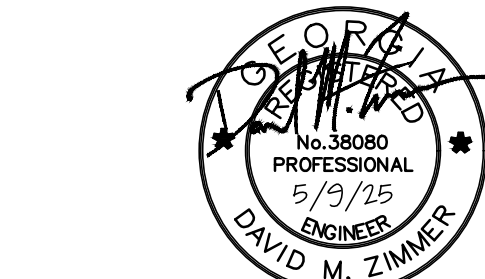
- NOTES:
1. UTILITY RACK SHALL CONSIST OF 6" ALUMINUM C-CHANNELS AND ALUMINUM UNISTRUT. RACK SHALL BE LOCATED 10 FEET FROM EDGE OF WASTEWATER CHANNEL. FIELD VERIFY EXACT LOCATION WITH OWNER / ENGINEER AND EQUIPMENT PRIOR TO INSTALLATION.
 2. CONTRACTOR SHALL NOTE THAT THE HEADWORKS, SCREENING AND GRIT SYSTEM AREAS ARE CLASS 1, DIVISION 2 PER NFPA 820. CONTRACTOR SHALL INSTALL ALL CONDUITS IN ACCORDANCE WITH NEC ARTICLES 500, 501, AND 502. INSTALL CONDUIT AIR GAPS IN CONDUIT BETWEEN PANELS AND CLASSIFIED AREAS PER ELECTRICAL DETAIL.
 3. HEAT TRACE JUNCTION BOX FOR 120V CONNECTION TO HEAT TRACE AROUND WATER LINES. ROUTE 2 #8 AND 1 #8 GND TO PANEL LD. PROVIDE HEAT TRACE JUNCTION BOXES AT FOUR AREAS - GRIT PIPING, GRIT FLUIDIZATION WATER, BAR SCREEN SPRAY WASH WATER, AND LIME SOLUTION RISER.
 4. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR ALL REQUIRED INTERCONNECTING WIRING AND CONDUIT AND EXACT LOCATIONS OF ALL FIELD DEVICES (MOTORS, SOLENOIDS, SENSORS, HANDSTATIONS, SWITCHES, ETC.).
 5. ROUTE 3 #8 IN 1" CONDUIT TO PANEL LD FOR INFLUENT SAMPLER. INSTALL RECEPTACLE ON ALUMINUM STAND 24" A.F.G. LOCATE WITH 5 FEET OF SAMPLER PLUG.
 6. ALL EXTERIOR RECEPTACLES SHALL BE WP, GFCI.
 7. ALL HOMERUNS ON THIS SHEET SHALL BE ROUTED TO THE HANDHOLES (PHH FOR POWER & SHH FOR SIGNALS) AND THEN BACK TO PANELS VIA DUCTBANKS.



GRIT SYSTEM CONTROL PANEL
SCHEMATIC

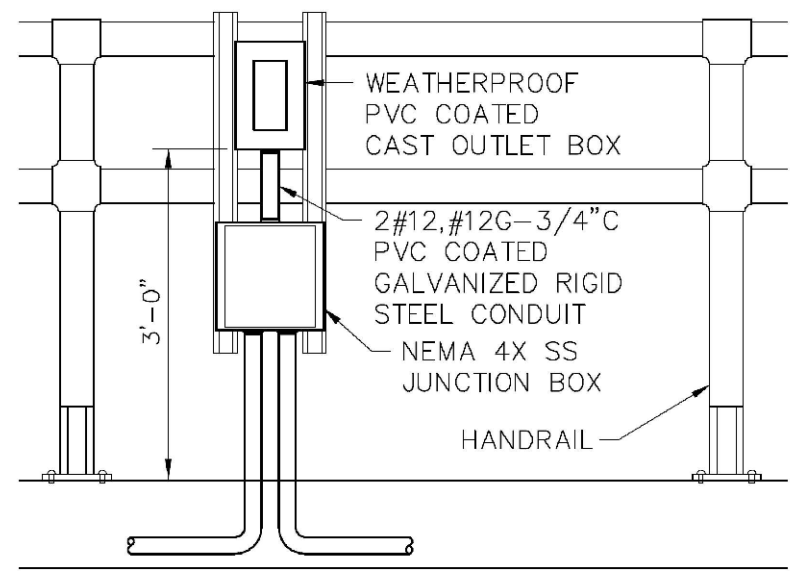


SCREEN AND GRIT STRUCTURE
SCALE: 1/4" = 1'-0



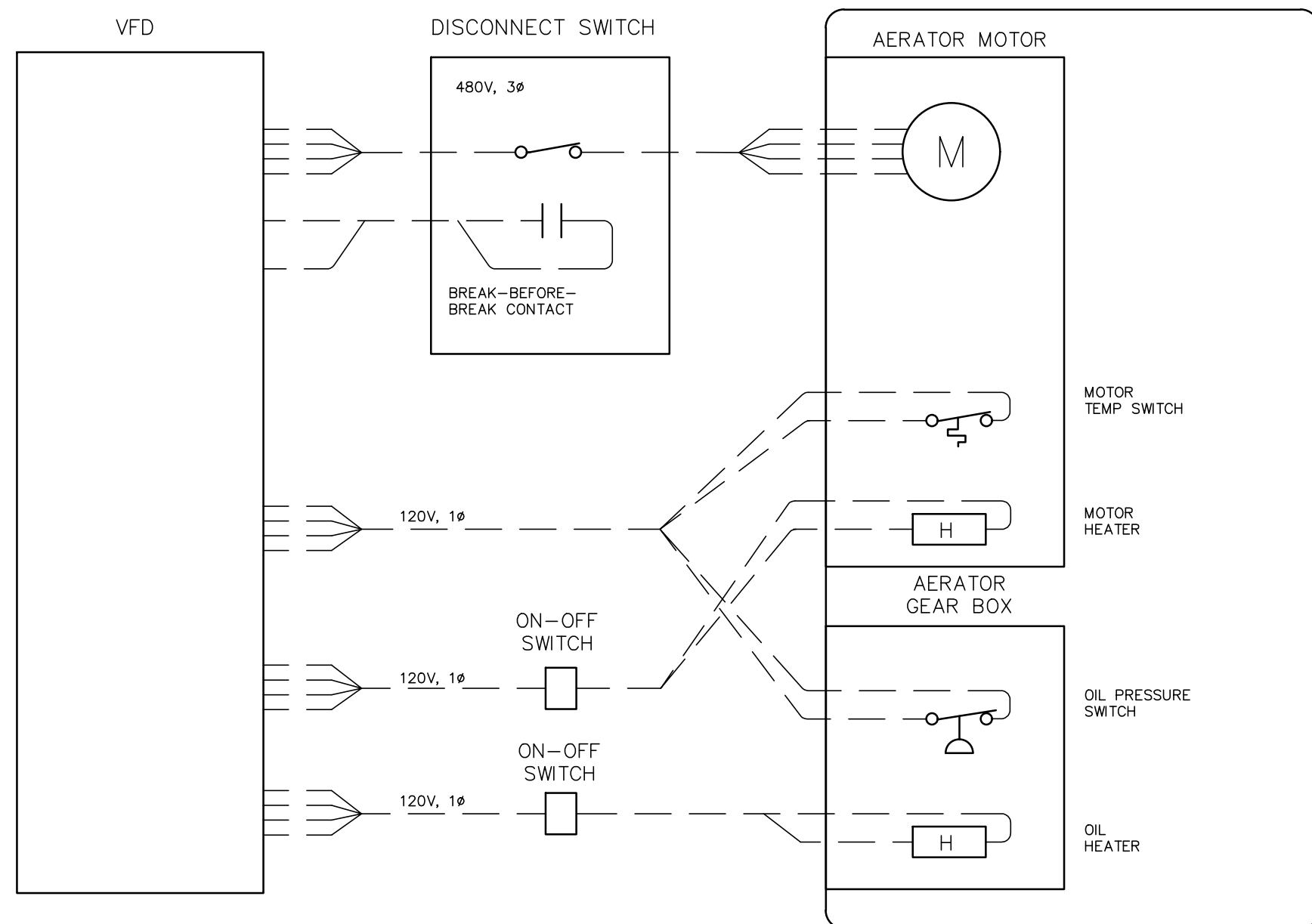
ESAD PROJECT #23003
ESAD LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
DRAWN		CHECKED	
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 70 OF 103	



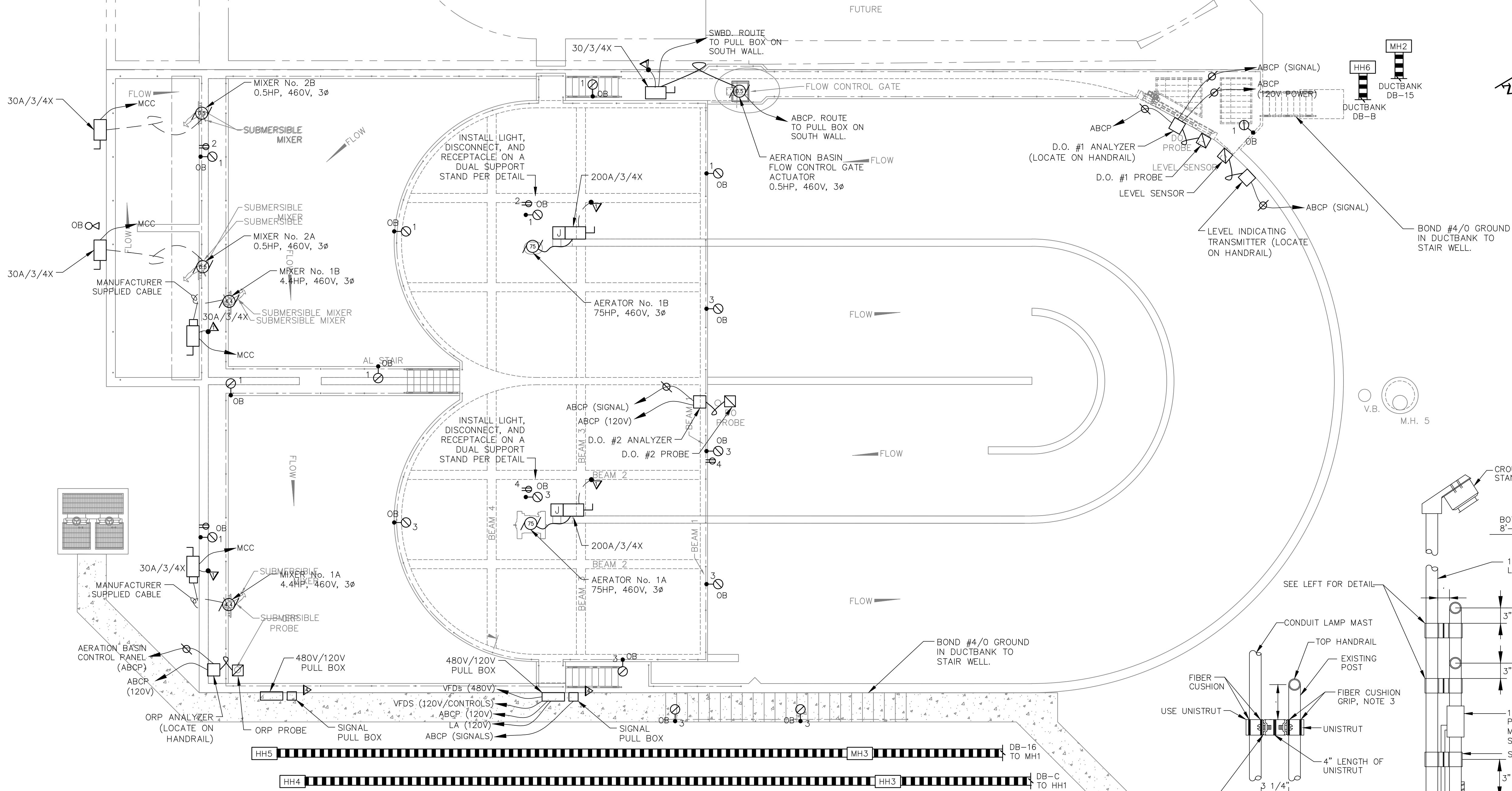
HANDRAIL MOUNTED RECEPTACLE

DETAIL **B**
74
SCALE: NONE



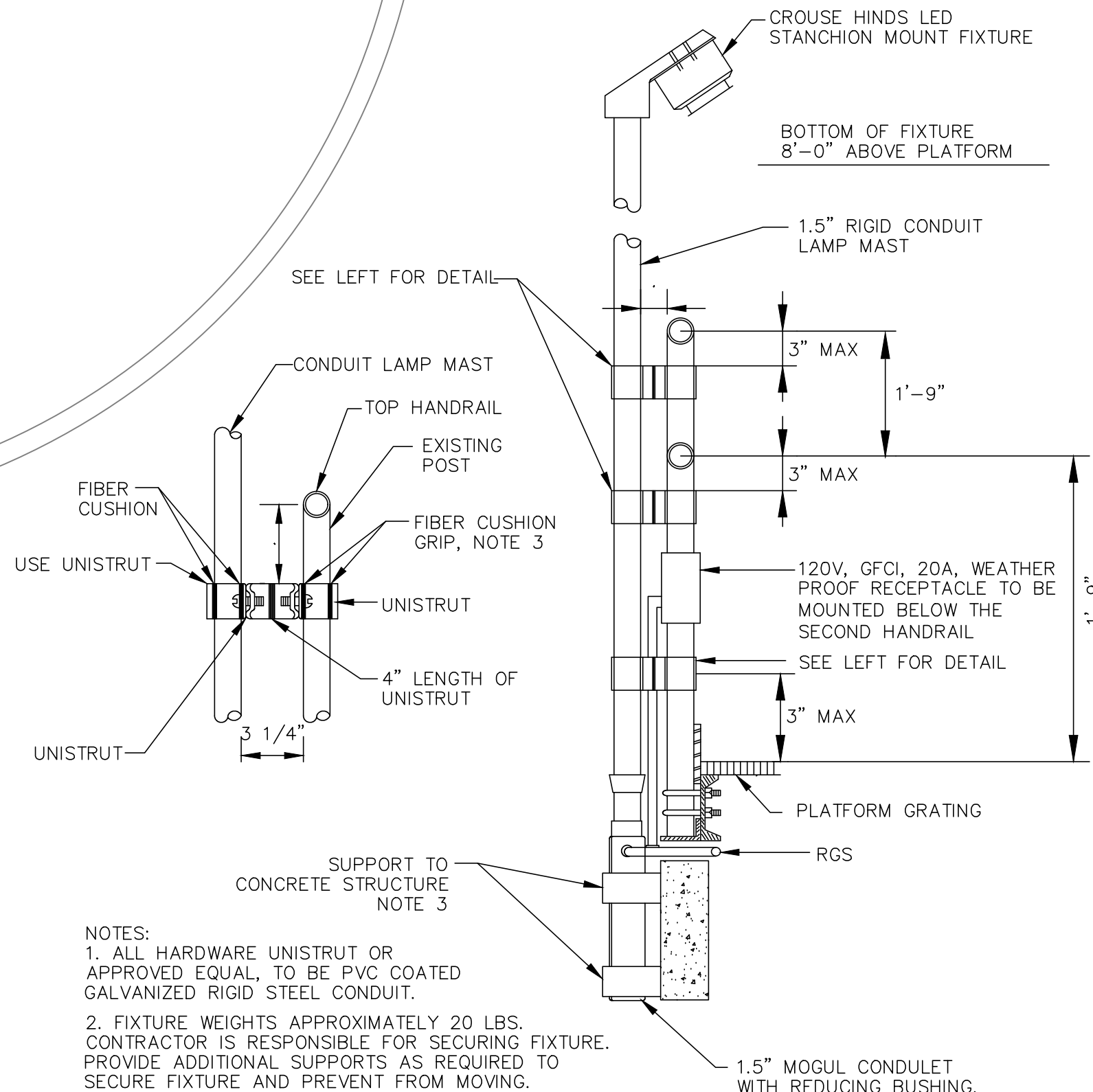
AERATOR MOTOR WIRING REFERENCE
SCALE: N.T.S.

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



- NOTES:
1. ALL HARDWARE UNISTRUT OR APPROVED EQUAL TO BE PVC COATED GALVANIZED RIGID STEEL CONDUIT.
 2. FIXTURE WEIGHTS APPROXIMATELY 20 LBS. CONTRACTOR IS RESPONSIBLE FOR SECURING FIXTURE. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO SECURE FIXTURE AND PREVENT FROM MOVING.
 3. CONTRACTOR SHALL FASTEN/SECURE FIXTURE TO CONCRETE. HANDRAIL IS FIBERGLASS AND WILL NOT SUPPORT FIXTURE.
 4. CONTRACTOR SHALL INSTALL ONE TYPE OB FIXTURE AND GET INSTALLATION APPROVAL FROM OWNER / ENGINEER PRIOR TO INSTALLING REMAINING FIXTURES.

TYPE OB LIGHT FIXTURE MOUNTED TO HANDRAIL DETAIL

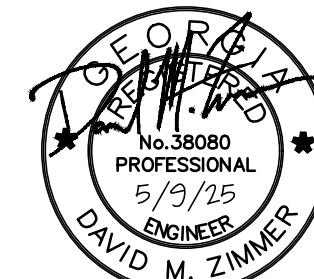


DETAIL **A**
74
SCALE: NO SCALE

KEYED NOTES:

- ▷ BOND TO STRUCTURE REINFORCING STEEL W/EXOTHERMIC BOND. #2 BARE COOPER GROUNDING CONDUCTOR
- ▷ CONTRACTOR SHALL INSTALL CONDUIT IN SLAB.
- ▷ ALL RECEPTACLES ON THIS SHEET SHALL BE NEMA 3R, GFCI.
- ▷ INSTALL NEMA 4X SS BOXES 12" ABOVE GRADE FOR TRANSITION OF DUCTBANKS TO AERATION BASIN WALL. HOMERUN TO NEAREST HANDHOLE OR MANHOLE.

FIXTURE SCHEDULE	
ITEM	DESCRIPTION
OB	10 FT. STANCHION MOUNT, 6,741 LUMENS LED FIXTURE RATED FOR WET LOCATIONS, POLYCARBONATE LENS. MOUNT ON HAND RAIL. SEE DETAIL, THIS SHEET.



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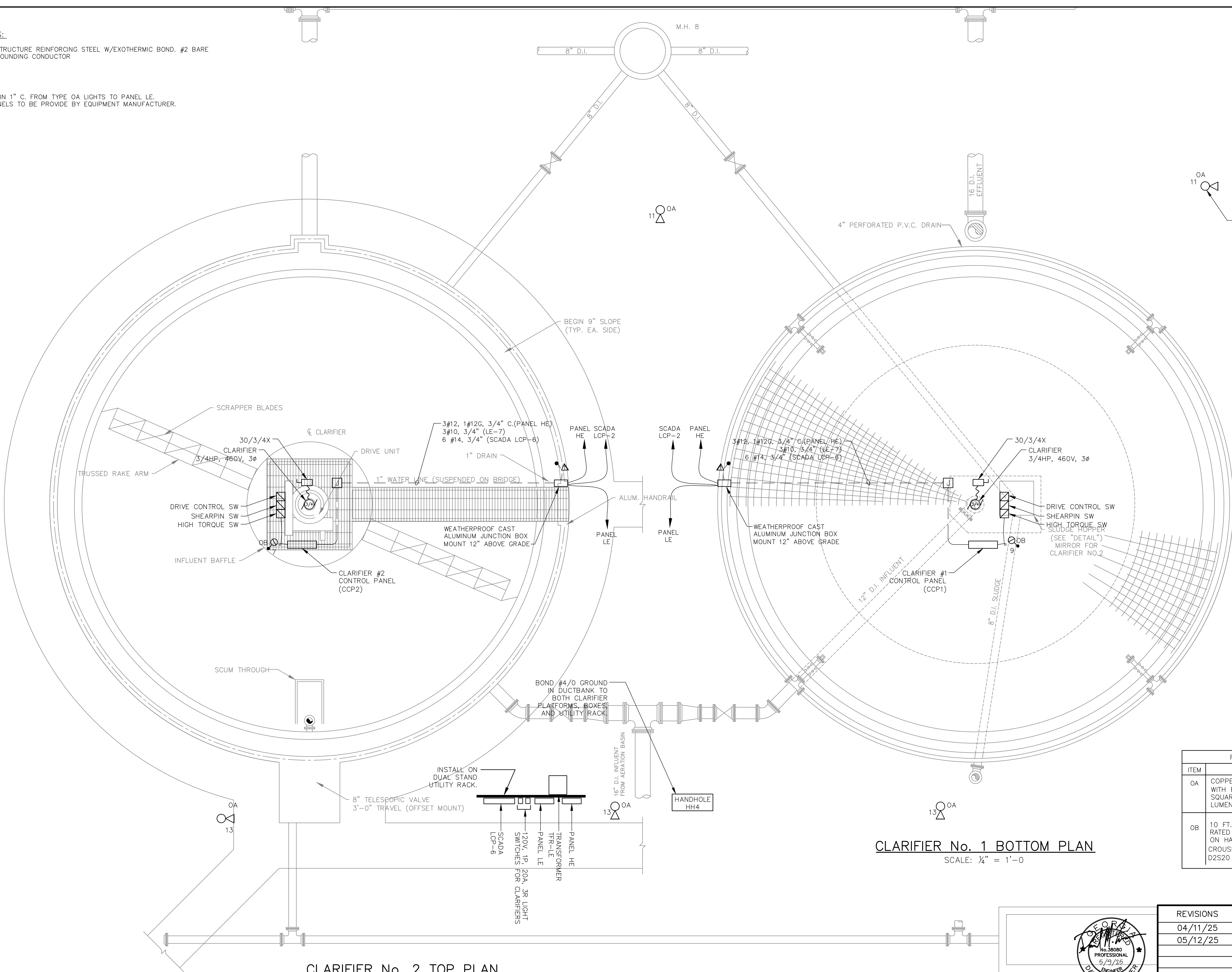
REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT AERATION BASIN ELECTRICAL PLAN	
04/11/25			
05/12/25			
DRAWN	CHECKED	AERATION BASIN ELECTRICAL PLAN	
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 71 OF 103

KEYED NOTES:

▶ BOND TO STRUCTURE REINFORCING STEEL W/EXOTHERMIC BOND. #2 BARE COOPER GROUNDING CONDUCTOR

NOTES:

1. ROUTE 3 #8 IN 1" C. FROM TYPE OA LIGHTS TO PANEL LE.
2. CONTROL PANELS TO BE PROVIDE BY EQUIPMENT MANUFACTURER.



CLARIFIER No. 1 BOTTOM PLAN
SCALE: 1/4" = 1'-0

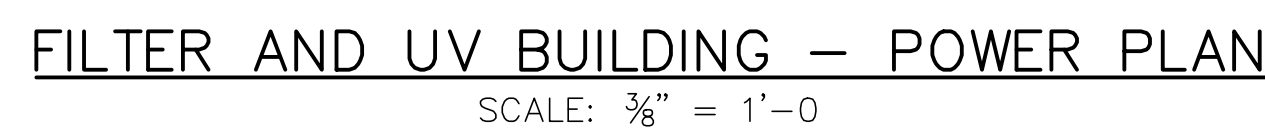
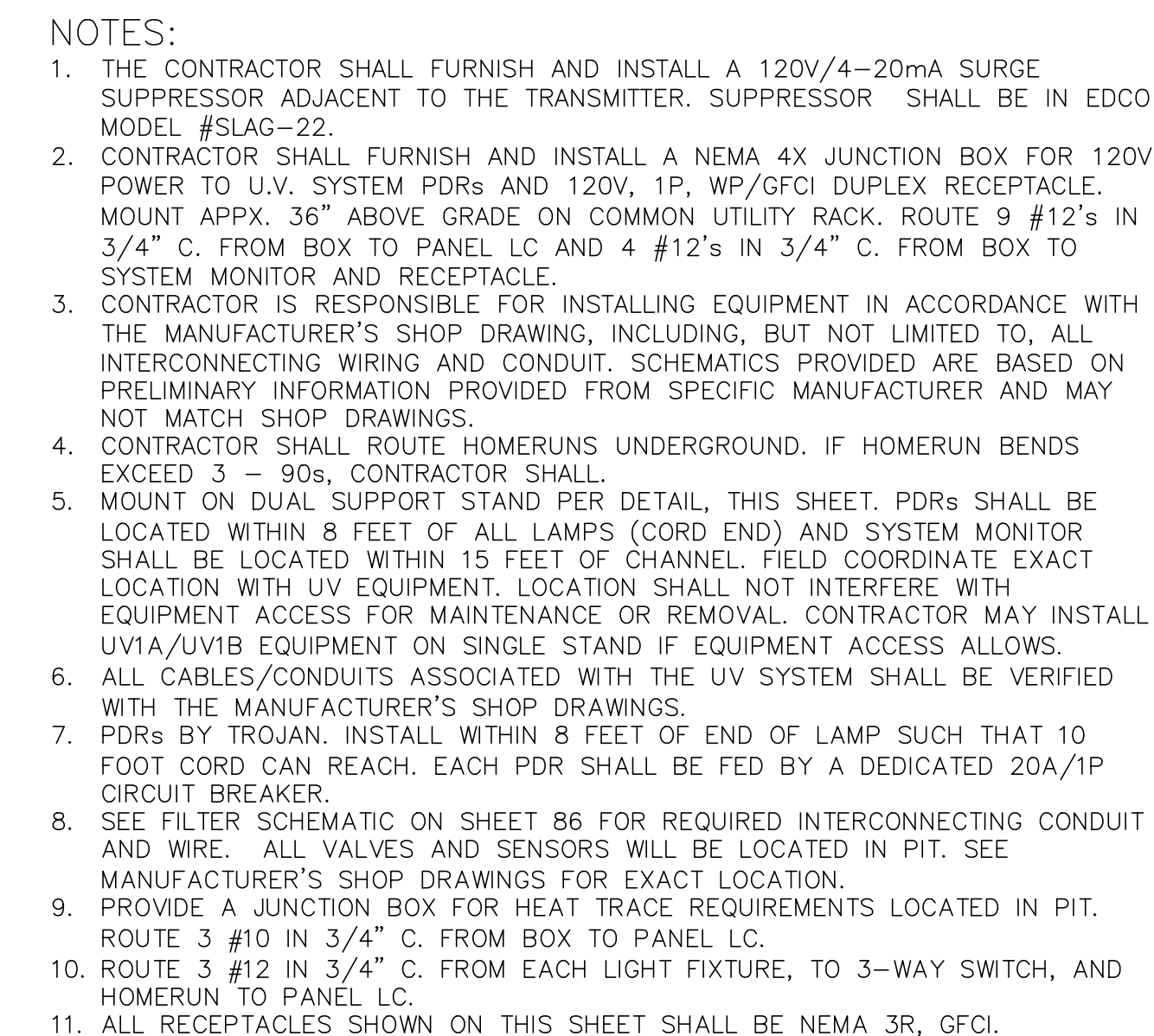
CLARIFIER No. 2 TOP PLAN
SCALE: 1/4" = 1'-0

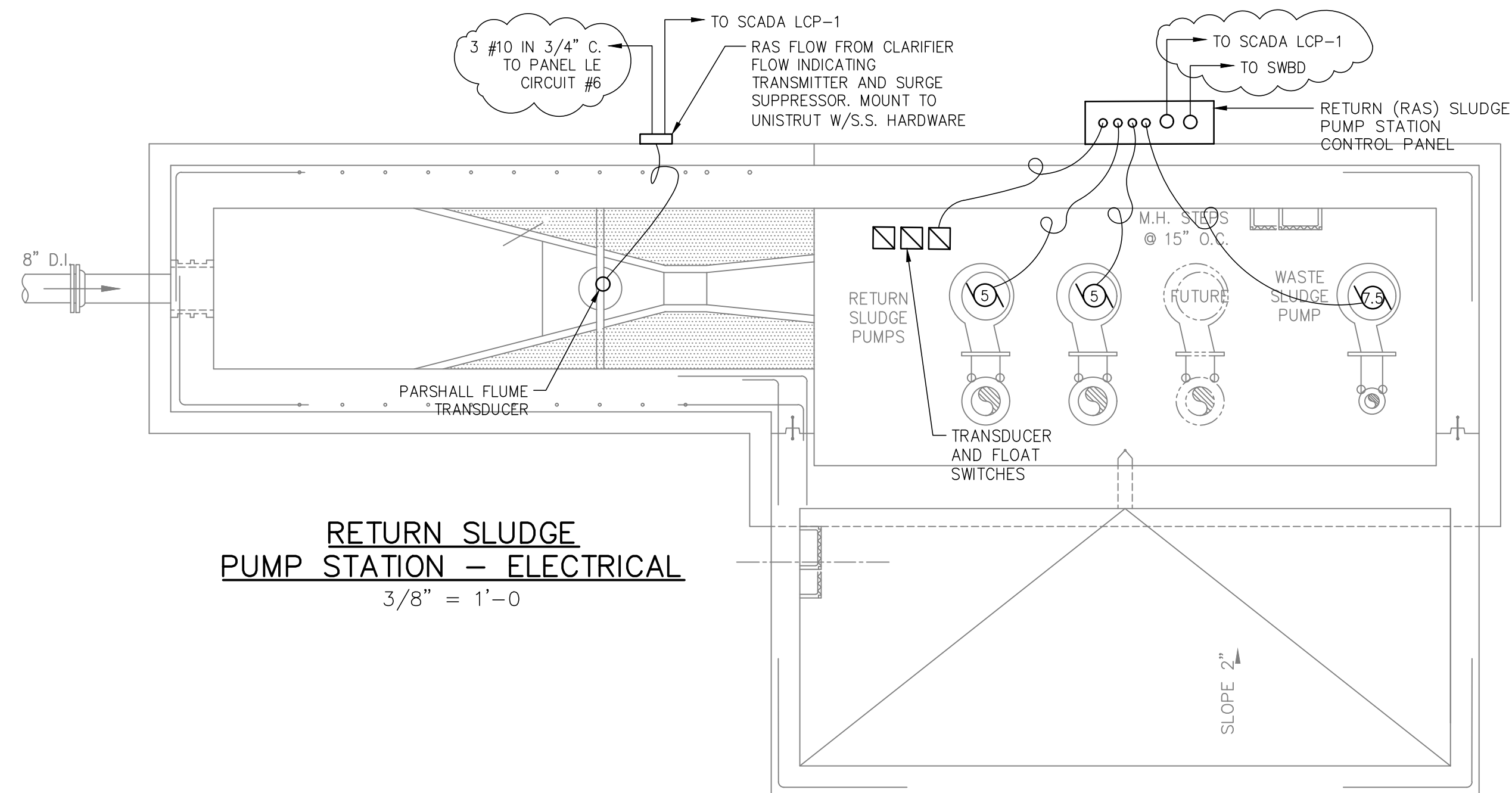
FIXTURE SCHEDULE	
ITEM	DESCRIPTION
OA	COPPER LIGHTING/INVUE VXM F06 7LED E1 5XQ BK 120V WITH PHOTO CELL. DIRECT MOUNT. INSTALL ON 20' TALL SQUARE POLE POWER COAT BLACK. 164 WATTS, 15,754 LUMENS.
OB	10 FT. STANCHION MOUNT, 6,741 LUMENS LED FIXTURE RATED FOR WET LOCATIONS, POLYCARBONATE LENS. MOUNT ON HAND RAIL. SEE DETAIL. CROUSE HINDS CAT#PVM-7L-J-R1-UNV1-S890-S903-D2S20 (NO PHOTOCELL). DARK BRONZE. 54W, 120V, 1PH.



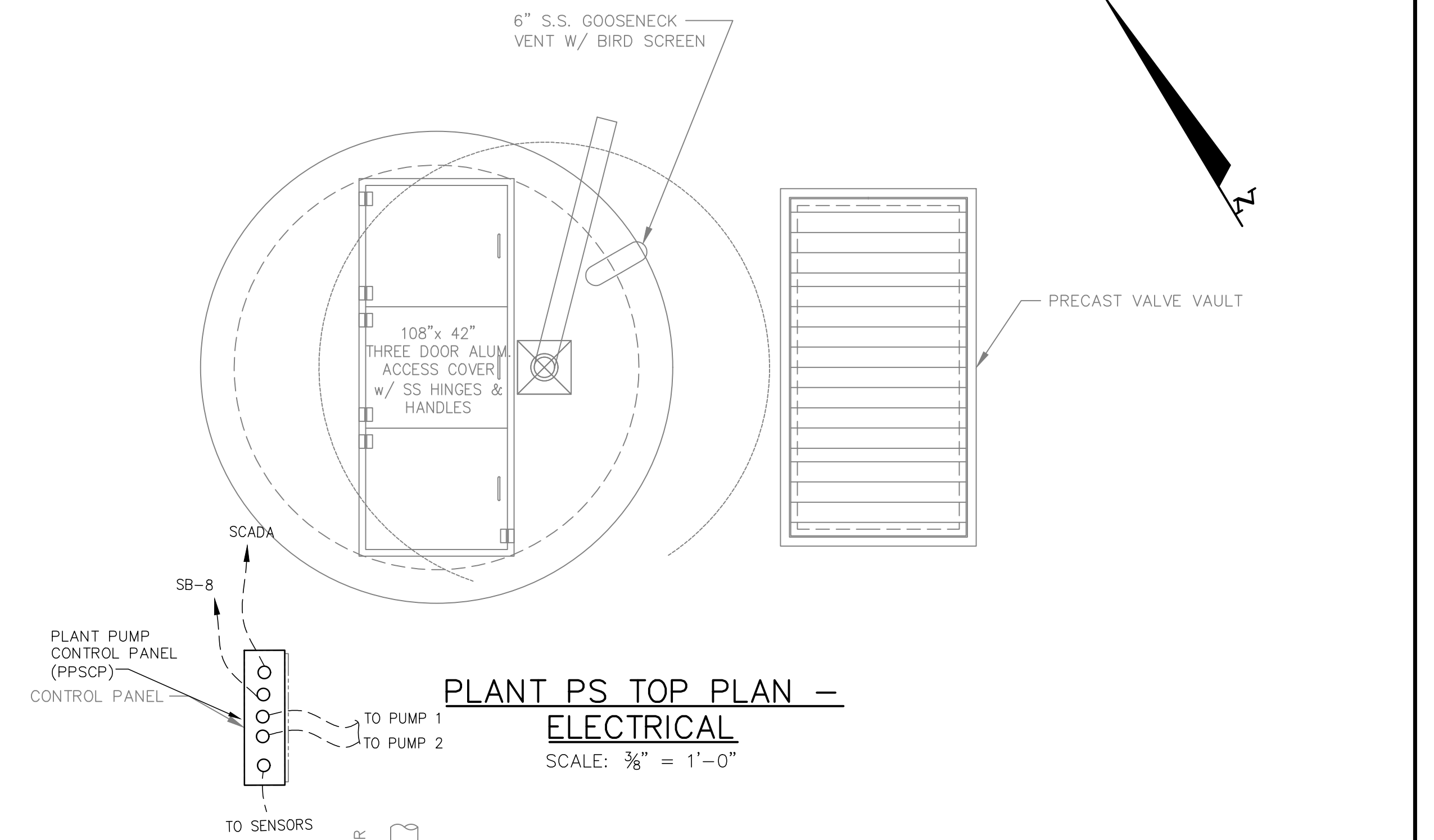
ESAD PROJECT #23003
ESAD, LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWell, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25		CLARIFIER ELECTRICAL PLAN	
DRAWN	CHECKED	SCALE: AS SHOWN DATE: JANUARY 2024	
AP	DMZ		
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 72 OF 103

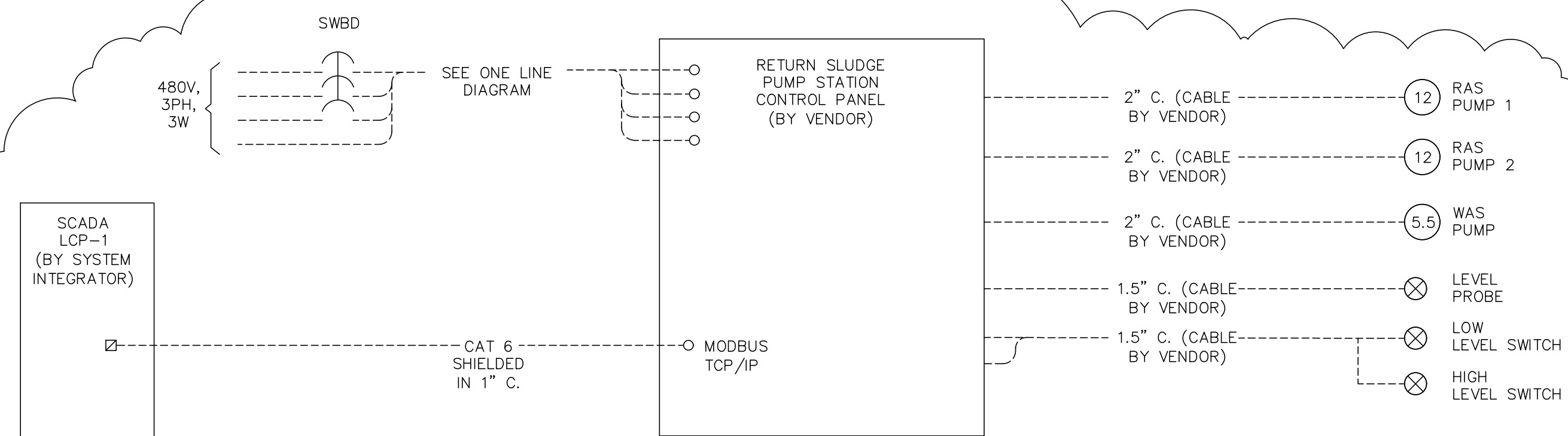




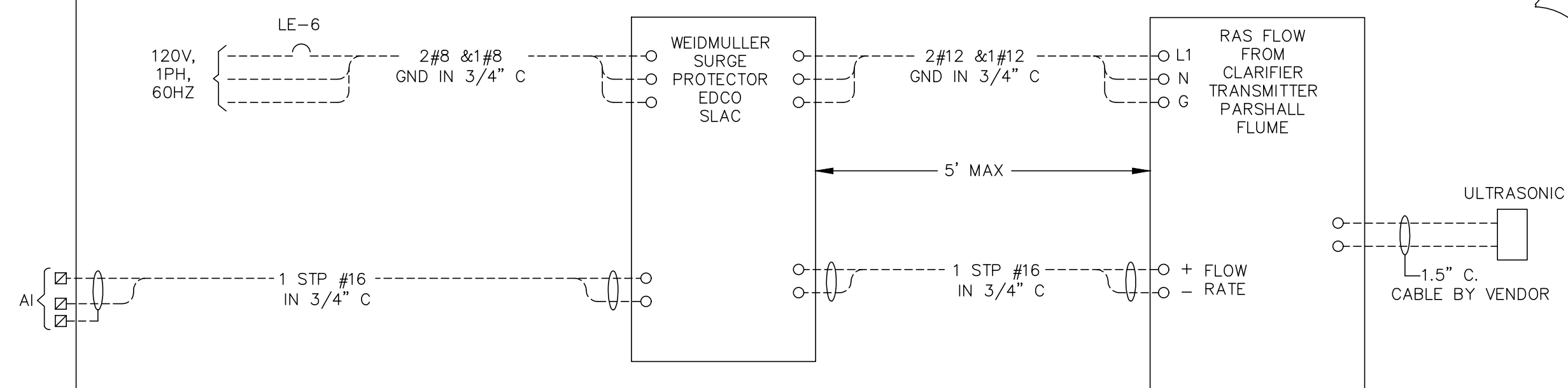
**RETURN SLUDGE
PUMP STATION — ELECTRICAL**
3/8" = 1'-0"



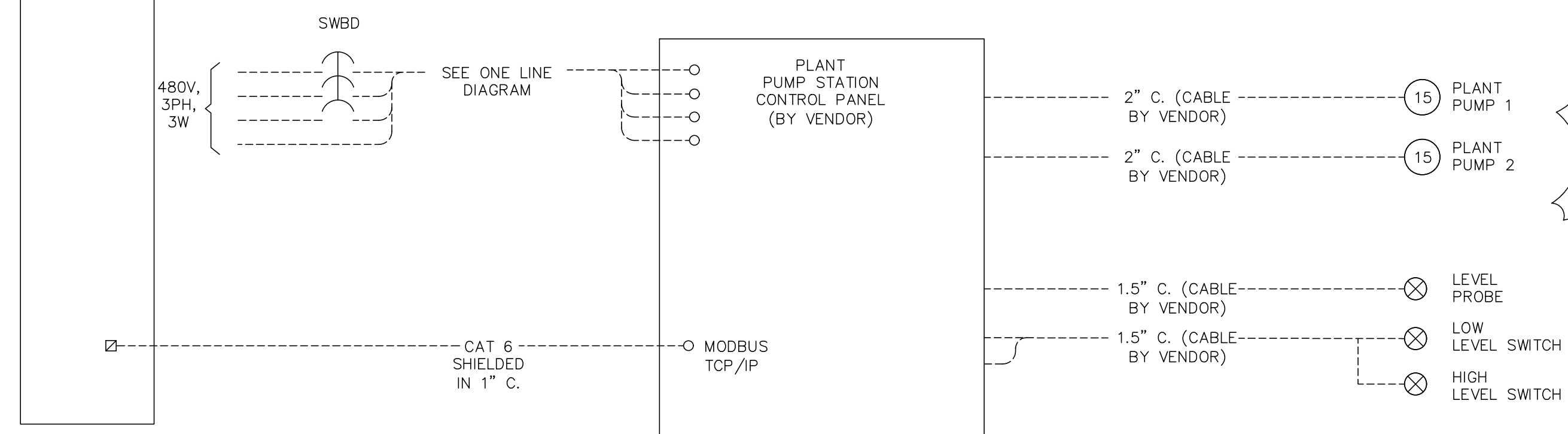
**PLANT PS TOP PLAN —
ELECTRICAL**
SCALE: 3/8" = 1'-0"



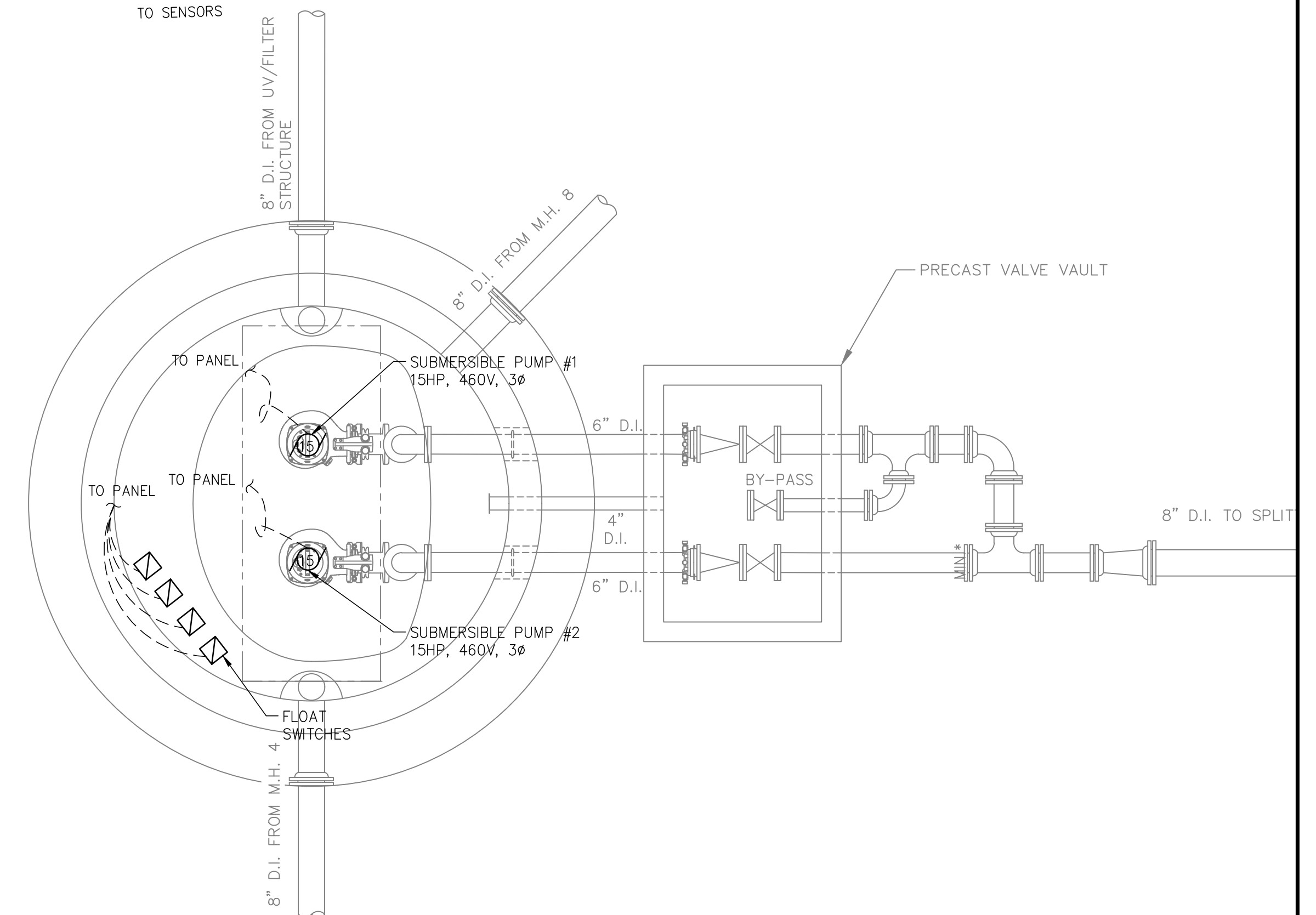
RAS/WAS PUMP CONTROL PANEL



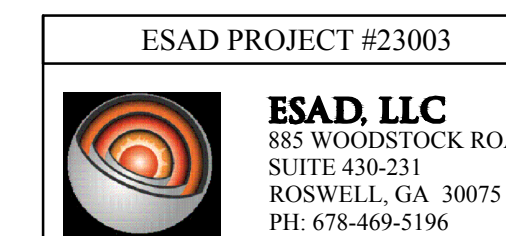
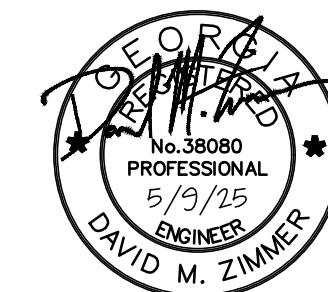
**RAS FLOW FROM CLARIFIER METER
SCHEMATIC**



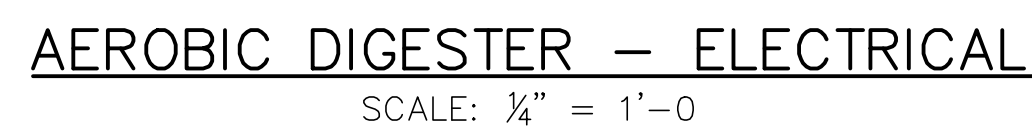
**PLANT PUMP STATION CONTROL PANEL
SCHEMATIC**



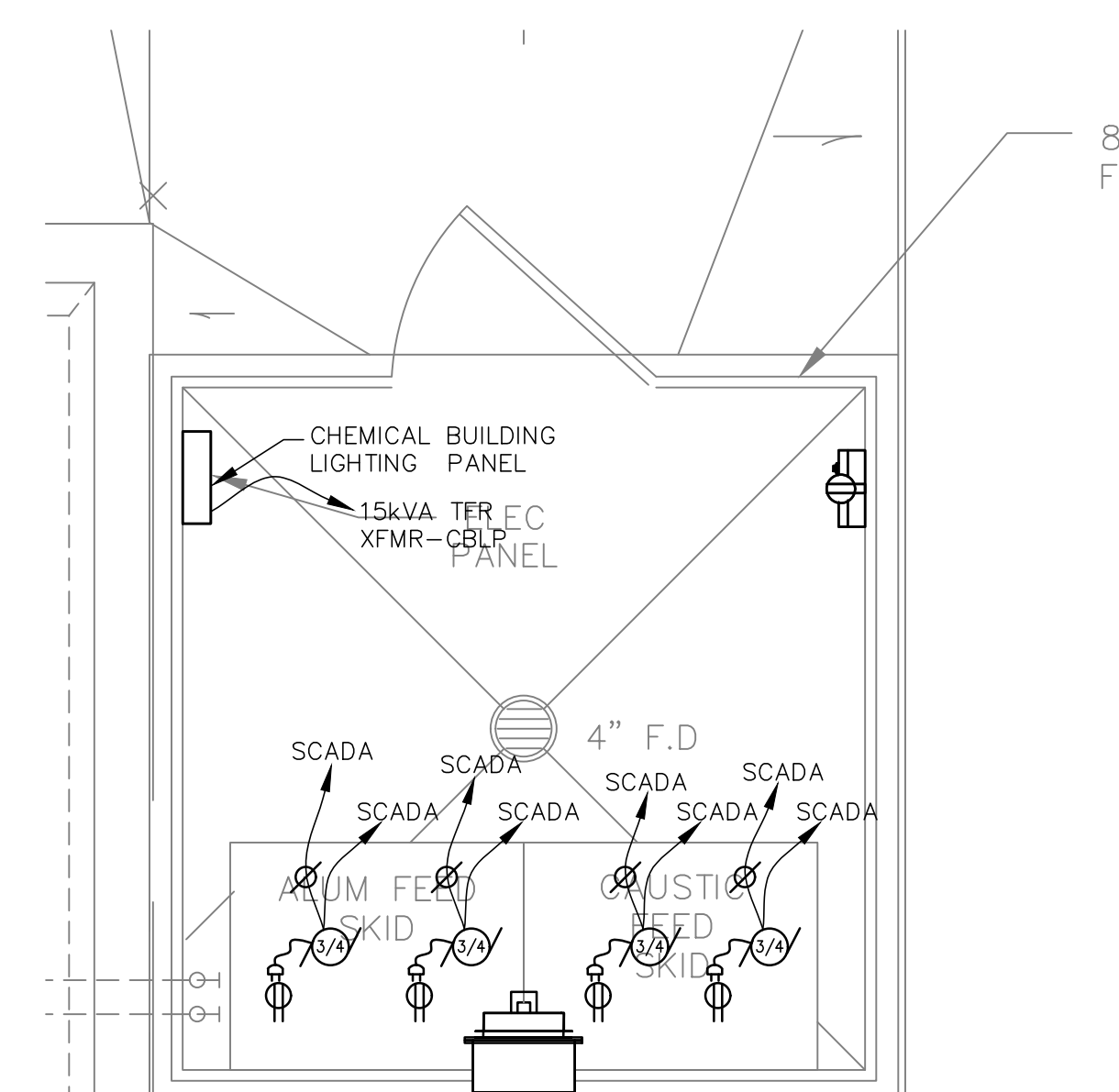
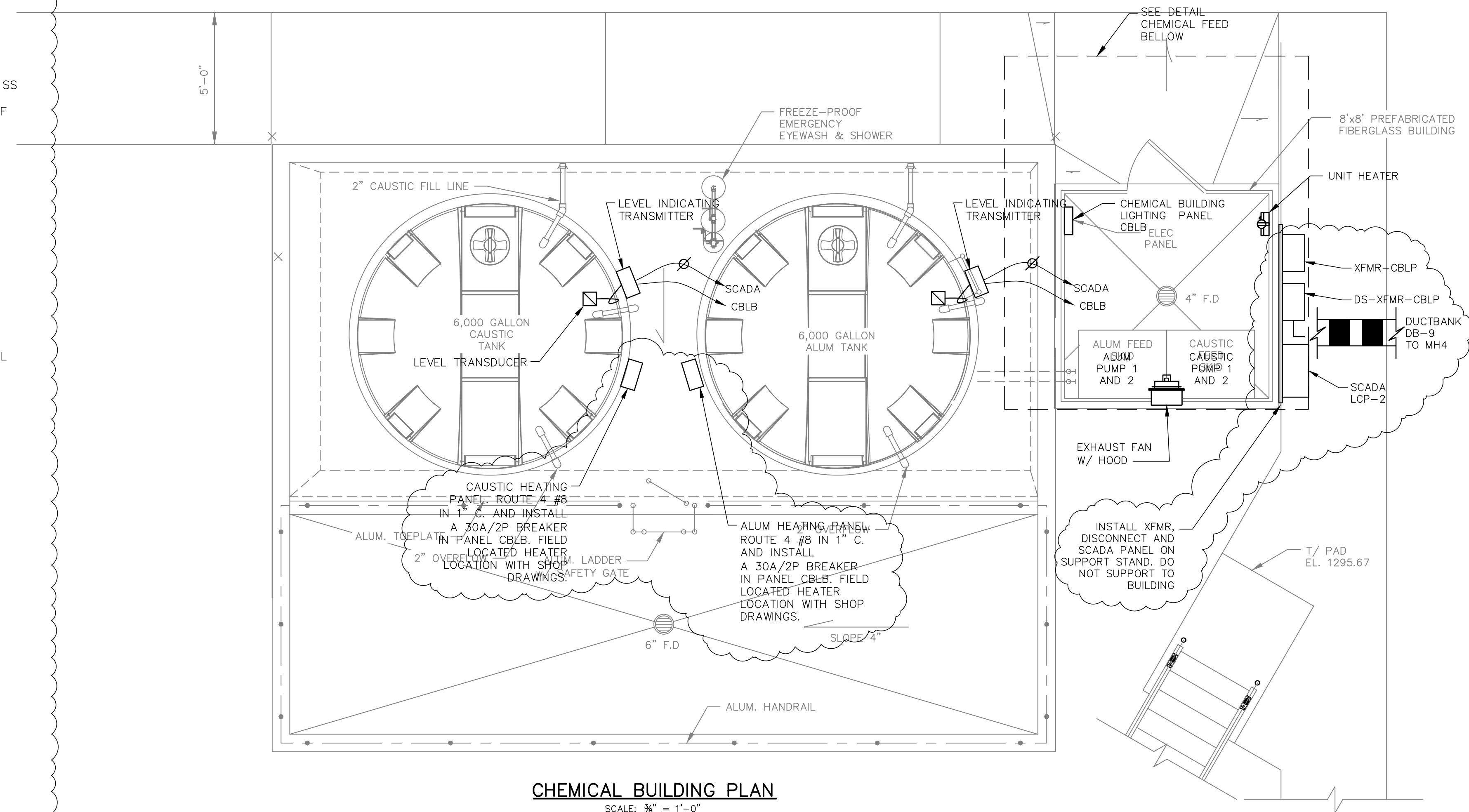
**PLANT PS WALL PLAN —
ELECTRICAL**
SCALE: 3/8" = 1'-0"



REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT RETURN SLUDGE EFFLUENT AND PLANT PUMP STATION ELECTRICAL PLAN	
05/12/25			
DRAWN	CHECKED		
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 74 OF 103

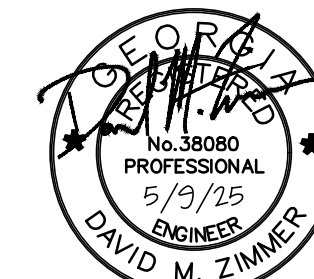


FIXTURE SCHEDULE	
ITEM	DESCRIPTION
OB	10 FT. STANCHION MOUNT, 6,741 LUMENS LED FIXTURE RATED FOR WET LOCATIONS, POLYCARBONATE LENS. MOUNT ON HAND RAIL. SEE DETAIL. CROUSE HINDS CAT#PM-7L-J-R1-UNV1-S890-S903-D2S20 (NO PHOTOCCELL). DARK BRONZE. 54W, 120V, 1PH.



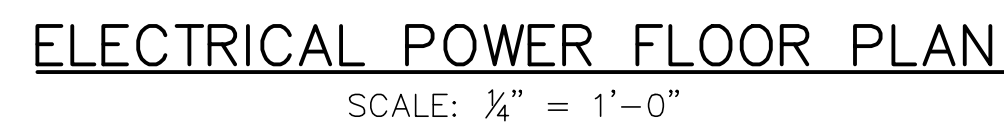
CHEMICAL FEED
ELECTRICAL PLAN
SCALE: $\frac{1}{2}" = 1'-0$

- NOTES: SCALE: $\frac{1}{2}" = 1'-0"$
1. THE CHEMICAL FEED VENDOR WILL PROVIDE ALL INTERCONNECTING WIRING AND CONDUIT ASSOCIATED WITH THE ALUM AND CAUSTIC FEED SYSTEMS, INCLUDING BUT NOT LIMITED TO THE CONTROL PANEL (IF REQUIRED), FEED PUMPS, BUILDING LIGHTS, RECEPTACLES, HEATING AND VENTILATION. THE CHEMICAL FEED VENDOR WILL ALSO PROVIDE A 30A-2FC CIRCUIT FOR THE ALUMINUM FEED PUMP AND A 20A-1FC CIRCUIT FOR THE TANK LEVEL INDICATORS. THE CONTRACTOR SHALL WIRE THE SCADA CONTROL SIGNALS FROM THE PLANT SCADA RTU TO THE CHEMICAL FEED PUMPS (OR CONTROL PANEL IF REQUIRED).



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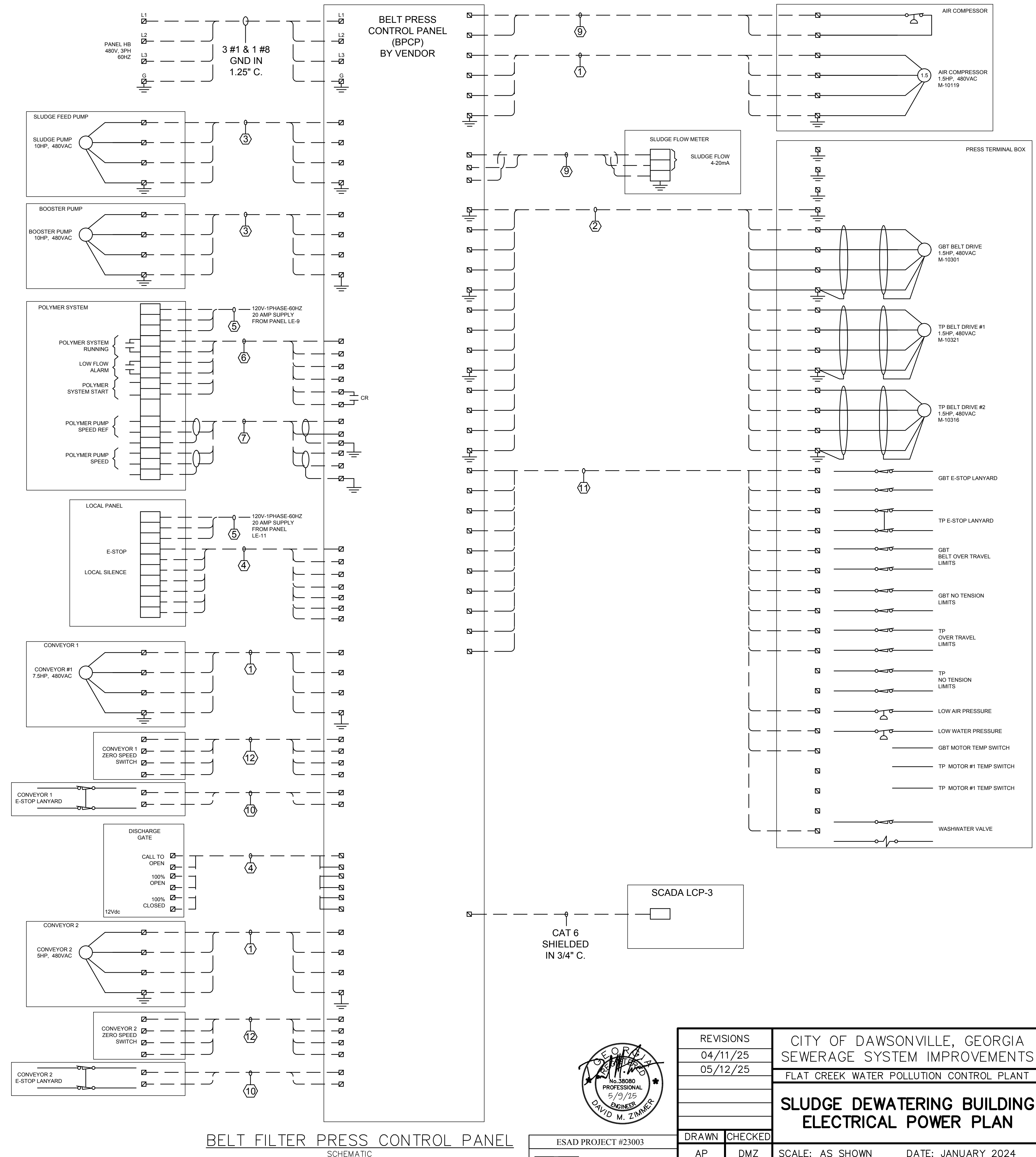
REVISIONS 04/11/25 05/12/25		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
		AEROBIC DIGESTER AND BULK CHEMICAL STORAGE ELECTRICAL PLANS	
DRAWN	CHECKED		
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
 TURNSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 75 OF 103



- ▷ BOND TO STRUCTURE REINFORCING STEEL W/EXOTHERMIC BOND. #2 BARE COOPER GROUNDING CONDUCTOR (TYPICAL).
- ▷ CONTRACTOR TO FURNISH AND INSTALL A NEMA 3R, 1HP, 120V, MOTOR RATED TOGGLE SWITCH FOR E-F-1 AND INTERLOCK WITH LOUVER AND THERMOSTAT.
- ▷ EXTEND DUCTBANK UNDER SLAB TO PANEL HB.
- ▷ ALL RECEPTACLES SHOWN ON THE DRAWING SHALL BE NEMA 3R AND RATED GFCI.

1. BELT PRESS SCHEMATIC IS GENERAL IN NATURE. CONTRACTOR SHALL REFER TO MANUFACTURER'S SHOP DRAWINGS FOR EXACT CONDUIT AND CABLE REQUIREMENTS BETWEEN BELT PRESS CONTROL PANEL AND EQUIPMENT (BELT PRESS, CONVEYORS, INSTRUMENTS, LANYARDS, ZERO SPEED SWITCHES, ETC.). CONTRACTOR IS RESPONSIBLE FOR A FULLY FUNCTIONAL SYSTEM.

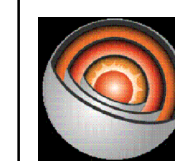
CABLE/CONDUIT SCHEDULE	
1	3 #12, 2 #14, & 1 #12 GND IN 3/4" C.
2	3 - 3/C 1212 W/ GND (VFD CABLES) IN 1.5" C.
3	3 #10, 2 #14, & 1 #10 GND IN 3/4" C.
4	7 #14 & 4 #14 IN 3/4" C.
5	2 #12 & 1 #12 GND IN 3/4" C.
6	6 #14 & 4 #14 SPARE IN 3/4" C.
7	2 - #16 TSP IN 1" C.
8	4 #14 & CAT 6E IN 1" C.
9	3 #14 IN 3/4" C.
10	3 #14 IN 3/4" C.
11	35 #14, 1 #14 GND & 10 #14 SPARE IN 1.25" C.



BELT FILTER PRESS CONTROL PANEL

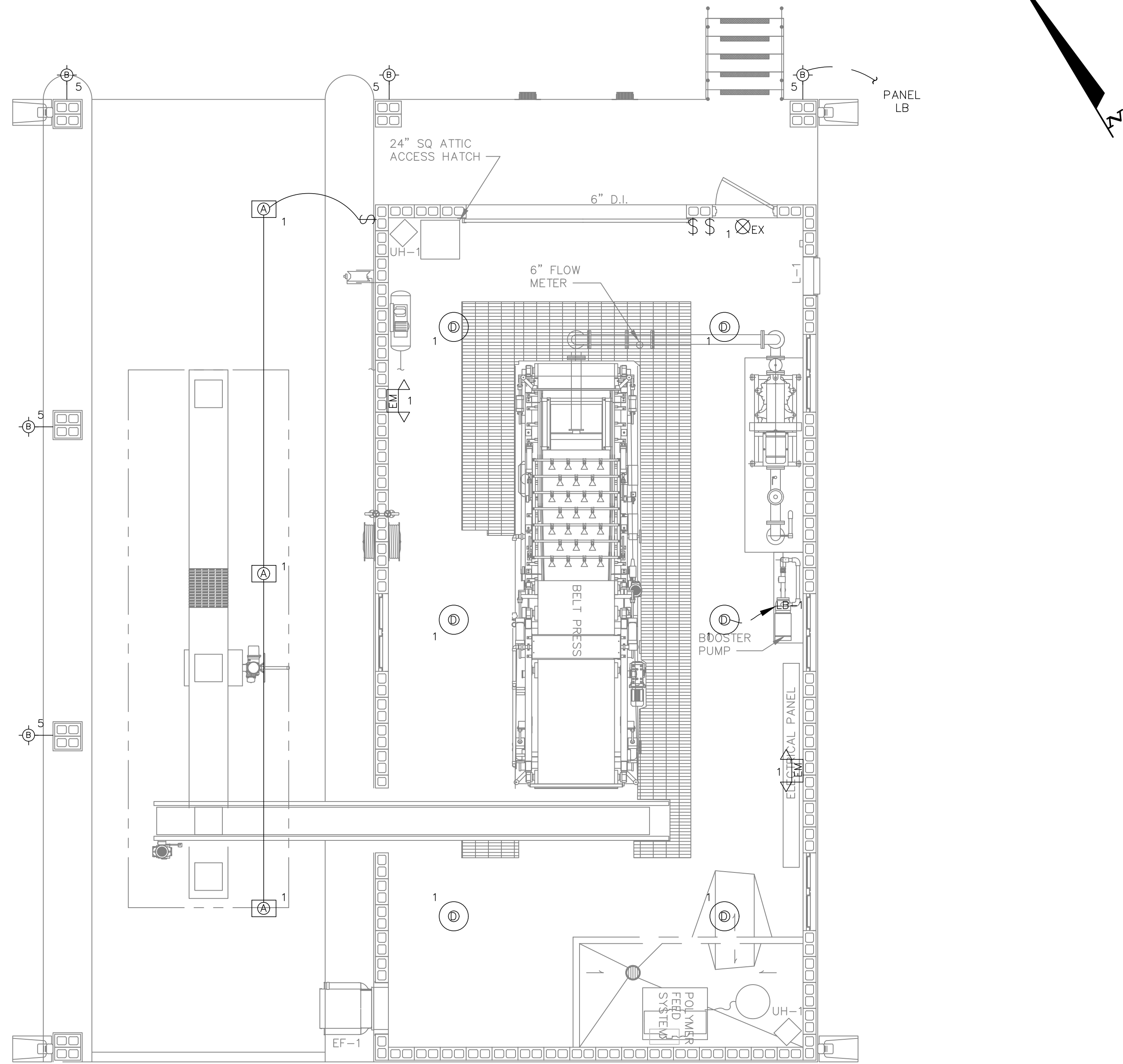


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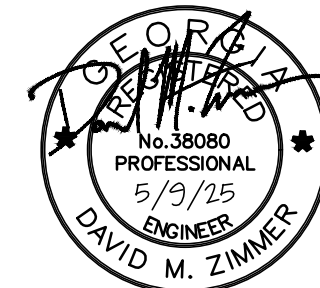
REVISIONS		CITY OF DAWSONVILLE, GEORGIA	
04/11/25		SEWERAGE SYSTEM IMPROVEMENTS	
05/12/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
		SLUDGE DEWATERING BUILDING ELECTRICAL POWER PLAN	
DRAWN	CHECKED		
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	 SHEET 76 OF 103



ELECTRICAL LIGHTING FLOOR PLAN

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

FIXTURE SCHEDULE	
ITEM	DESCRIPTION
⊙	COPPER LIGHTING/LUMARK CLCSLED-86, LITHONIA LIGHTING CNY LED P3 40K MVOLT DDB OR EQUAL LED CANOPY LIGHT
⊕	COPPER LIGHTING/LUMARK WPL3B, LITHONIA LIGHTING WST LED P2 50K VM MVOLT OR EQUAL LED WALL PACK WITH PHOTOCELL.
⊖	HUBBELL LIGHTING - FPH-5K PB5-120-ND-A-GR, LITHONIA LIGHTING - JHBL 24000LM GR WD 50K 70CRI OR EQUAL, 24,000 LUMEN LED HIGH BAY, 120V.
EM	COPPER LIGHTING APEL LED EMERGENCY LIGHT
EX	COPPER LIGHTING SURE-LITES TPX LED EXIT LIGHT

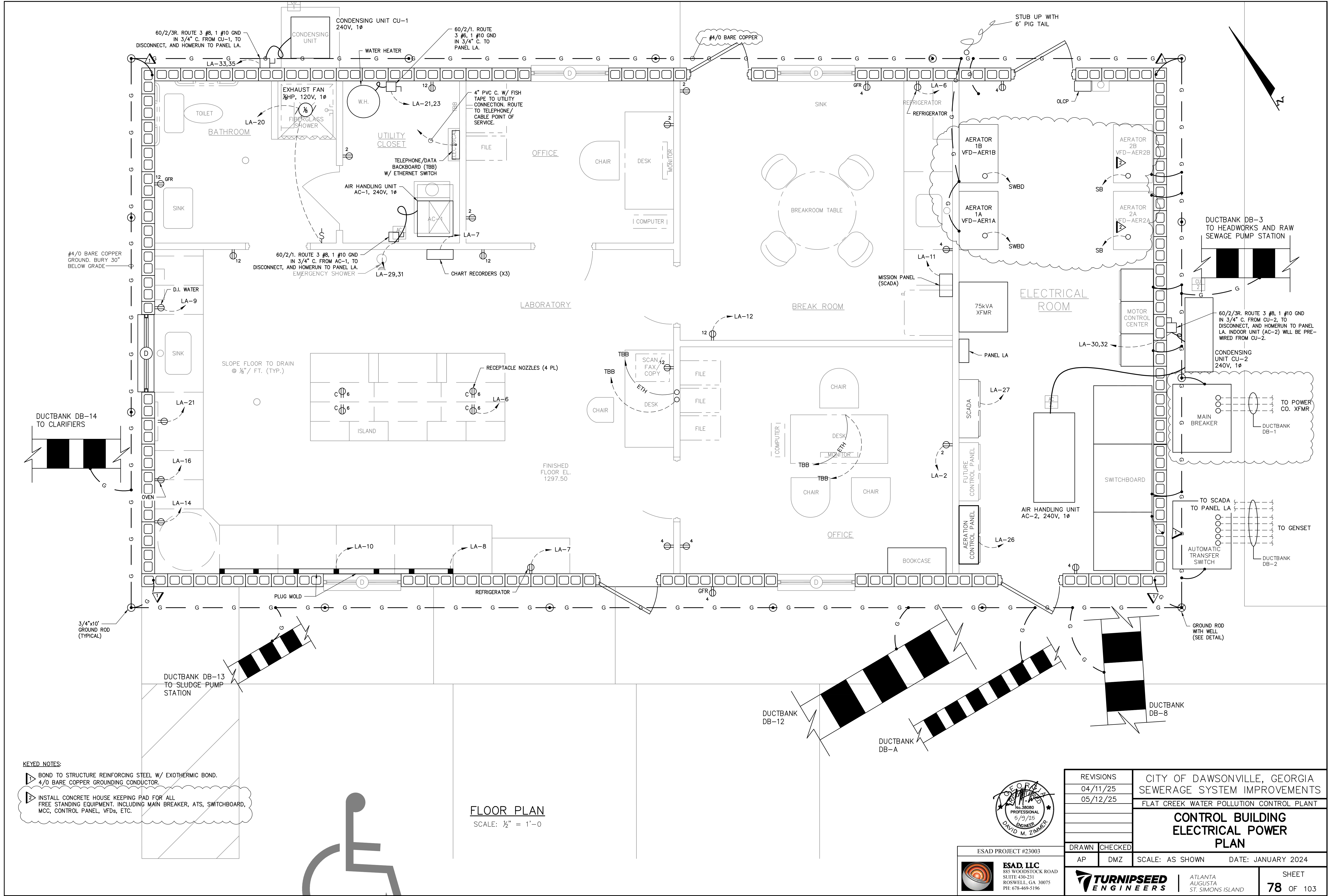


ESAD PROJECT #23003



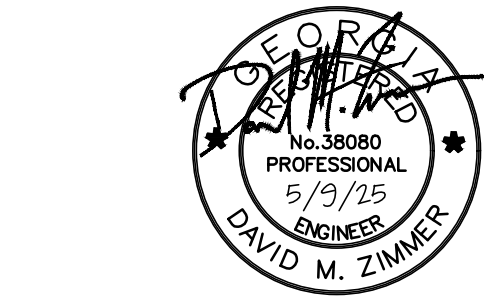
ESAD, LLC
815 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
DRAWN		CHECKED	
AP	DMZ	SCALE: AS SHOWN DATE: JANUARY 2024	
		ATLANTA AUGUSTA ST. SIMONS ISLAND	



- KEYED NOTES:
- 1 BOND TO STRUCTURE REINFORCING STEEL W/ EXOTHERMIC BOND. 4/0 BARE COPPER GROUNDING CONDUCTOR.
 - 2 INSTALL CONCRETE HOUSE KEEPING PAD FOR ALL FREE STANDING EQUIPMENT, INCLUDING MAIN BREAKER, ATS, SWITCHBOARD, MCC, CONTROL PANEL, VFDs, ETC.

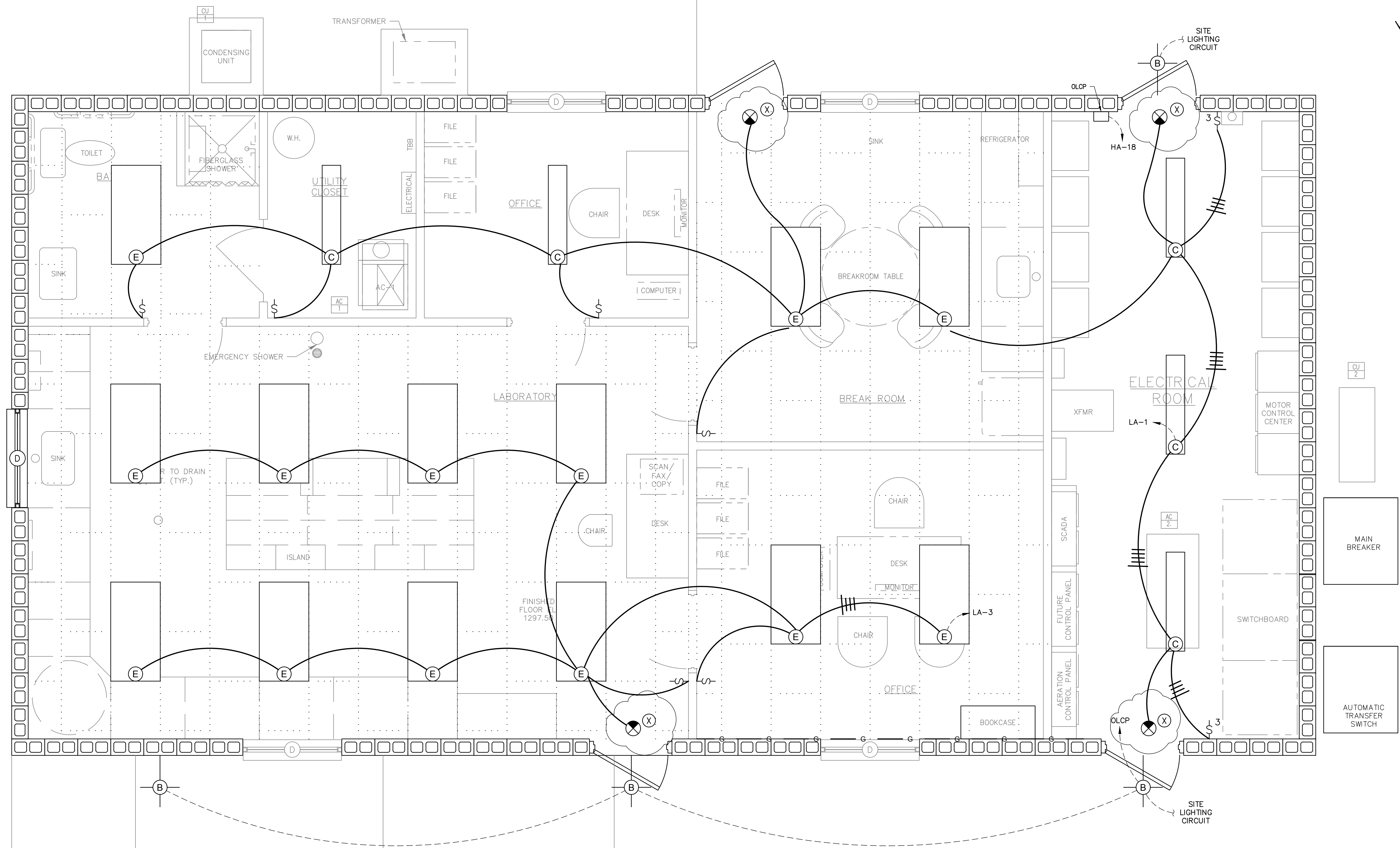
FLOOR PLAN
SCALE: 1/2" = 1'-0"



ESAD PROJECT #23003

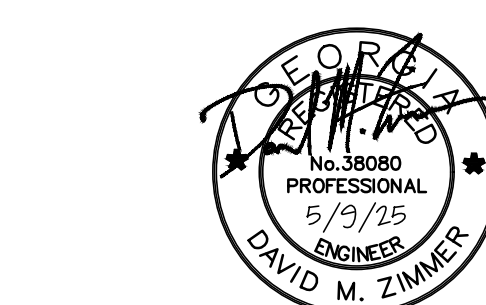
ESAD, LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSOWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT CONTROL BUILDING ELECTRICAL POWER PLAN	
04/11/25			
05/12/25			
DRAWN	CHECKED		
AP	DMZ		
SCALE: AS SHOWN		DATE: JANUARY 2024	
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 78 OF 103	



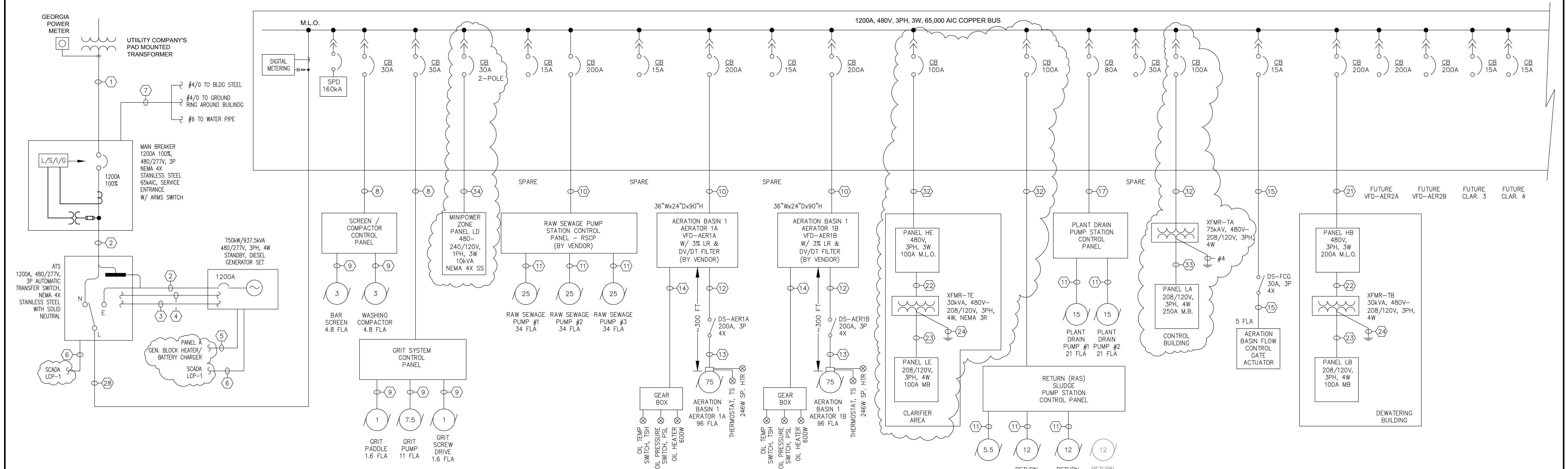
FIXTURE SCHEDULE	
ITEM	DESCRIPTION
(B)	COOPER LIGHTING/LUMARK LDWP-GL-6B-120V, LITHONIA LIGHTING WST LED P2 50K VM MVOLT OR EQUAL LED WALL PACK
(C)	COOPER LIGHTING/4WSNLED-LD4-64HL-F-UNV-L835-CD1-U/LITHONIA LIGHTING LBL4 7200LM 80CRI 35K LINEAR LED OR EQUAL
(E)	METALUX - 24FP6435C, LITHONIA LIGHTING - CPANL 2X4 40/56/60LM 35K M2 OR EQUAL, 4,000, 5,000, OR 6,000 SWITCHABLE LUMEN LED PANEL
(X)	LED EXIT SIGN WITH INTEGRAL-BATTERY PACK WITH-REMOVE HEADS. LITHONIA CAT#ELM2-S-W-3-R-120/277-ELN. WALL/CEILING MOUNT. 120V.

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

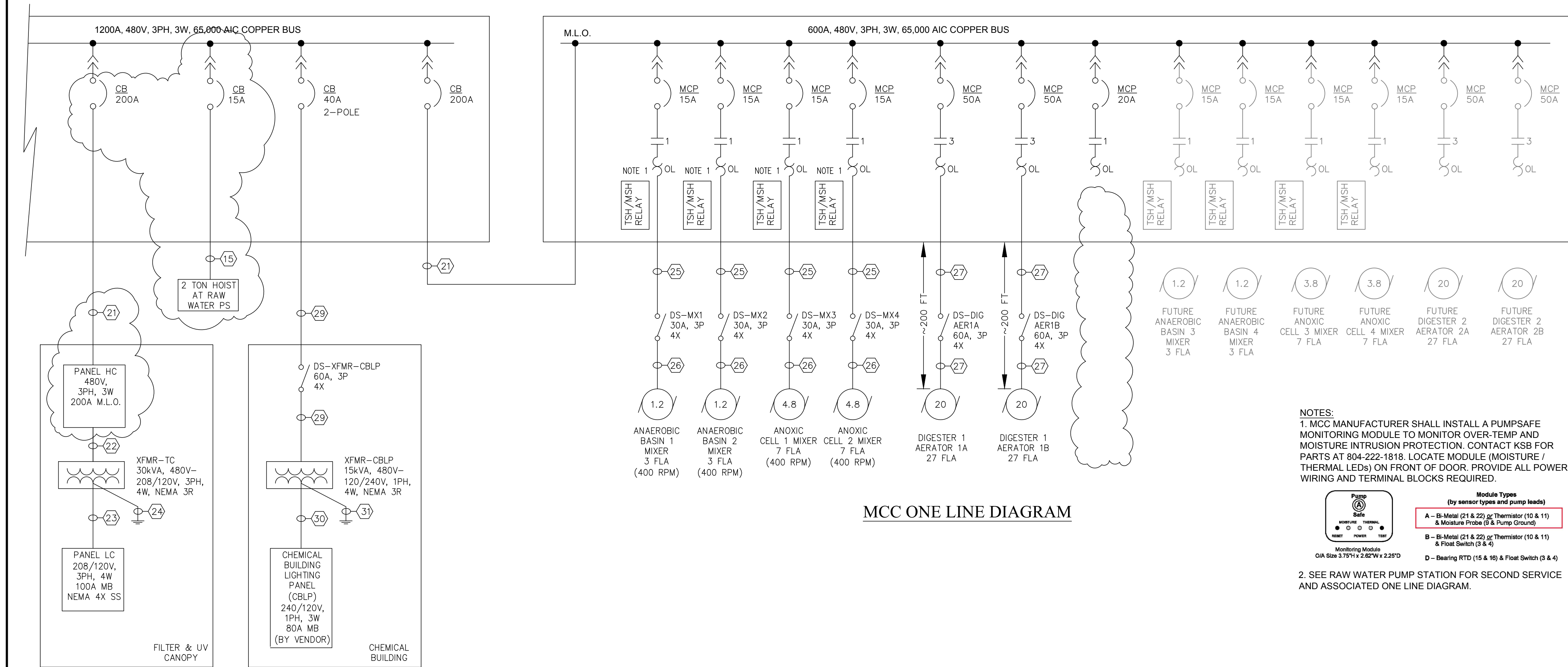


ESAD PROJECT #23003
 **ESAD, LLC**
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT CONTROL BUILDING ELECTRICAL LIGHTING PLAN	
04/11/25			
05/12/25			
DRAWN		CHECKED	
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	SHEET 79 OF 103



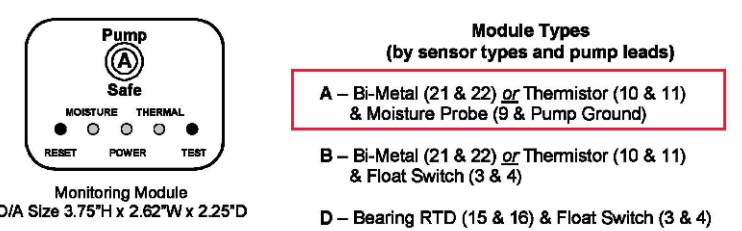
SWITCHBOARD ONE LINE DIAGRAM



MCC ONE LINE DIAGRAM

CONDUCTOR/CONDUIT SCHEDULE			
①	3 RUNS 4-600KCMIL IN 3.5" C. EACH	①6	3 #4 & 1 #10 GND IN 1" C.
②	3 RUNS 4-600KCMIL & 1 #4/O GND IN 3.5" C. EACH	①7	3 #3 & 1 #8 GND IN 1" C.
③	4 #14 IN 1" C.	①8	3 #4 & 1 #8 GND IN 1" C.
④	RS-485 IN 1" C.	①9	4 #1/O & 1 #6 GND IN 1.5" C.
⑤	3 #4 & 1 #8 GND IN 1" C.	②0	1 #6 GND IN 3/4" PVC C.
⑥	4 #14, CAT 6 SHIELDED, & 4 #14 SPARE IN 1.5" C.	②1	3 #3/O & 1 #6 GND IN 2" C.
⑦	#4/O GND IN 3/4" PVC.	②2	3 #6 & 1 #10 GND IN 3/4" C.
⑧	3 #10 & 1 #10 GND IN 1" C.	②3	4 #1 & 1 #8 GND IN 1.5" C.
⑨	3 #12 & 1 #12 GND IN 3/4" C.	②4	1 #8 GND IN 3/4" PVC C.
⑩	3 #3/O & 1 #6 GND IN 2" C.	②5	3 #12, 4 #14 (TSH/MSH) & 1 #12 GND IN 1" C.
⑪	2.5" C. (CABLE BY VENDOR)	②6	2" C. (CABLE BY VENDOR)
⑫	3/C #1 W/ GND VFD CABLE (BELDEN #29528), 4 #14 (DS, TS) & 3 #12 (SPHTR) IN 2" C.	②7	3 #8, 2 #14 (TS), & 1 #10 GND IN 1" C.
⑬	3/C #1 W/ GND VFD CABLE (BELDN #29528), 2 #14 (TS), & 3 #12 (SPHTR) IN 2" C.	②8	3 RUNS 3-600KCMIL & 1 #4/O GND IN 3.5" C. EACH
⑭	2 #8, 4 #14 (PSL, TSH), & 1 #8 GND IN 1" C.	②9	2 #4 & 1 #10 GND IN 1" C.
⑮	3 #12 & 1 #12 GND IN 1" C.	③0	3 #3 & 1 #8 GND IN 1" C.
		③1	1 #8 GND IN 3/4" PVC C.
		③2	3 #1 & 1 #8 GND IN 1.25" C.
		③3	4-250Kcmil & 1 #4 GND IN 2.5" C.
		③4	2 #8 & 1 #8 GND IN 1" C.

NOTES:
1. MCC MANUFACTURER SHALL INSTALL A PUMPSAFE MONITORING MODULE TO MONITOR OVER-TEMP AND MOISTURE INTRUSION PROTECTION. CONTACT KSB FOR PARTS AT 804-222-1818. LOCATE MODULE (MOISTURE / THERMAL LEDS) ON FRONT OF DOOR. PROVIDE ALL POWER, WIRING AND TERMINAL BLOCKS REQUIRED.

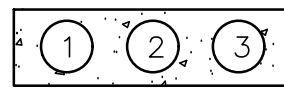


2. SEE RAW WATER PUMP STATION FOR SECOND SERVICE AND ASSOCIATED ONE LINE DIAGRAM.

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25		ELECTRICAL SINGLE LINE DIAGRAMS	
DRAWN		CHECKED	
AP	DMZ	SCALE: AS SHOWN	DATE: JANUARY 2024
ESAD PROJECT #23003		SHEET 80 OF 103	
ESAD, LLC 885 WOODSTOCK ROAD SUITE 430-231 ROSWELL, GA 30075 PH: 678-469-5196		TURNIPSEED ENGINEERS ATLANTA AUGUSTA ST. SIMONS ISLAND	

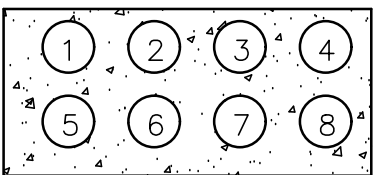
NOTES:

1. CONTRACTOR SHALL ROUTE 2 #12 & 1 #12 GND IN 3/4" CONDUIT TO ALL PANEL LOADS WITH A 20A/1P BREAKER, UNLESS NOTED OTHERWISE. TYPICAL FOR ALL PANELS SHOWN.



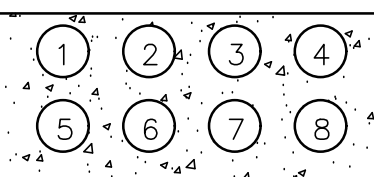
DB-1

- 1 - 3.5" PVC (480V)
- 2 - 3.5" PVC (480V)
- 3 - 3.5" PVC (480V)



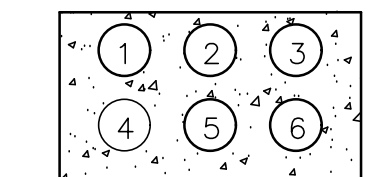
DB-2

- 1 - 3.5" PVC (480V)
- 2 - 3.5" PVC (480V)
- 3 - 3.5" PVC (480V)
- 4 - 1" PVC (GEN. START/STOP CONTROLS)
- 5 - 1" PVC (RS-485)
- 6 - 1.5" PVC (GEN. LOAD CONTROLS TO LCP-1)
- 7 - 1" PVC (GEN. LOAD CENTER TO PANEL A)
- 8 - 1" PVC (SPARE TO ELECTRICAL ROOM)



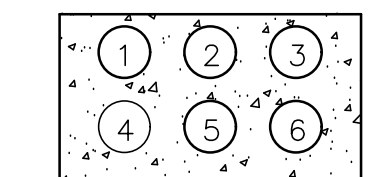
DB-3

- 1 - 1" PVC (480V SCREEN C.P.)
- 2 - 1" PVC (480V GRIT C.P.)
- 3 - 2" PVC (480V RAW SEWAGE PS C.P.)
- 4 - 2" PVC (SPARE)
- 5 - 1" PVC (PANE LD)
- 6 - 2" PVC (FIBER 4 TO LCP-5)
- 7 - 1" PVC (480V TO RSPS 2 TON HOIST)
- 8 - 1" PVC (SPARE)



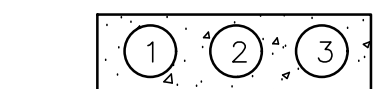
DB-4

- 1 - 2" PVC (480V RAW SEWAGE PS C.P.)
- 2 - 1" PVC (480V TO RSPS 2 TON HOIST)
- 3 - 1" PVC (CONTROLS TO LCP-5)
- 4 - 1" PRGS (4-20mA TO LCP-5)
- 5 - 1" PVC (SPARE)
- 6 - 1" PVC (SPARE)



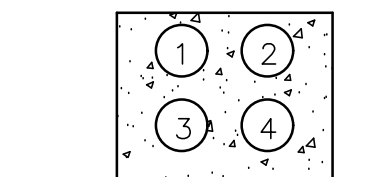
DB-5

- 1 - 1" PVC (480V SCREEN C.P.)
- 2 - 1" PVC (480V GRIT C.P.)
- 3 - 2" PVC (FIBER 4 TO LCP-5)
- 4 - 1" PVC (CONTROLS TO LCP-5)
- 5 - 1" PRGS (4-20mA TO LCP-5)
- 6 - 1" PVC (SPARE)



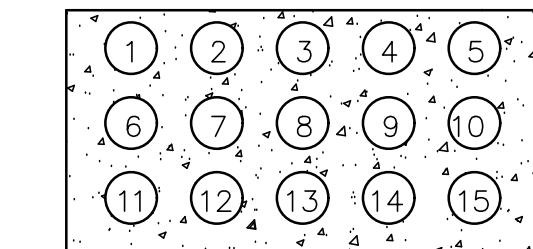
DB-6

- 1 - 1" PVC (480V PLAN PS C.P.)
- 2 - 1" PVC (CAT 6 TO LCP-1)
- 3 - 1" PVC (SPARE)



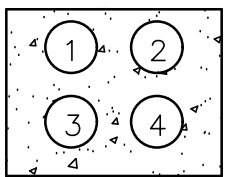
DB-7

- 1 - 1" PVC (480V TO PANEL HC.)
- 2 - 2" PVC (FIBER 3 TO LCP-4)
- 3 - 1" PVC (SPARE)
- 4 - 1" PVC (SPARE)



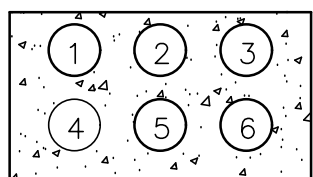
DB-8

- 1 - 1" PVC (480V TO DIGESTER 1, AER-1A)
- 2 - 1" PVC (480V TO DIGESTER 2, AER-1B)
- 3 - 2" PVC (480V TO PANEL HB)
- 4 - 1" PVC (480V TO DS-XFMR-CBLP)
- 5 - 2" PVC (FIBER 1 AND FIBER 2)
- 6 - 1" PVC (4-20mA TO)
- 7 - 1" PVC (SPARE)
- 8 - 1" PVC (SPARE)
- 9 - 1" PVC (CONTROLS TO ABCP)
- 10 - 1" PRGS (SIGNALS TO ABCP)
- 11 - 1" PVC (DIG. 2 AER-2A)
- 12 - 1" PVC (DIG. 2 AER-2B)
- 13 - 1" PRGS (DIG. 2 LEVEL)
- 14 - 1" PVC (SPARE)
- 15 - 1" PVC (SPARE)



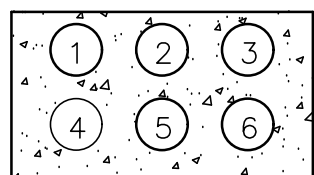
DB-9

- 1 - 1" PVC (480V TO DS-XFMR-CBLP)
- 2 - 2" PVC (FIBER 1)
- 3 - 1" PVC (SPARE)
- 4 - 1" PVC (SPARE)



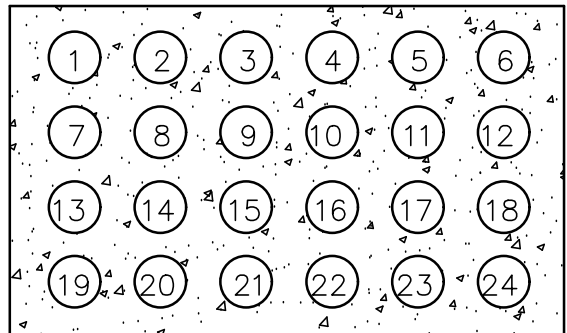
DB-10

- 1 - 1" PVC (DIG. 1 AER-1A)
- 2 - 1" PVC (DIG. 1 AER-1B)
- 3 - 1" PRGS (SIGNALS TO ABCP)
- 4 - 1" PVC (CONTROLS TO ABCP)
- 5 - 1" PVC (120V)
- 6 - 1" PVC (SPARE)



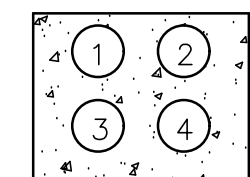
DB-11

- 1 - 2" PVC (480V TO PANEL HB)
- 2 - 2" PVC (FIBER 2 TO LCP-3)
- 3 - 1" PVC (120V)
- 4 - 1" PVC (SPARE)
- 5 - 1" PVC (SPARE)
- 6 - 1" PVC (SPARE)



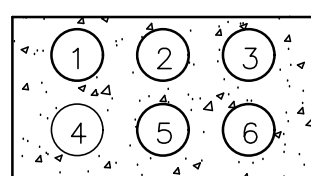
DB-12

- 1 - 2" PVC (480V AERATOR 1A)
- 2 - 1.25" PVC (120V AERATOR 1A)
- 3 - 2" PVC (480V AERATOR 1B)
- 4 - 1.25" PVC (120V AERATOR 1B)
- 5 - 2" PVC (480V AERATOR 2A)
- 6 - 1.25" PVC (120V AERATOR 2A)
- 7 - 2" PVC (480V AERATOR 2B)
- 8 - 1.25" PVC (120V AERATOR 2B)
- 9 - 1" PVC (480V FLOW CONTROL GATE)
- 10 - 1" PVC (480V MIXER 1)
- 11 - 1" PVC (480V MIXER 2)
- 12 - 1" PVC (480V MIXER 3)
- 13 - 1" PVC (480V MIXER 4)
- 14 - 1" PVC (480V FUTURE MIXER)
- 15 - 1" PVC (480V FUTURE MIXER)
- 16 - 1" PVC (480V FUTURE MIXER)
- 17 - 1" PVC (480V FUTURE MIXER)
- 18 - 1.5" PVC (120V POWER)
- 19 - 1.5" PVC (120V POWER)
- 20 - 1" PVC (SPARE)
- 21 - 1" PVC (SPARE)
- 22 - 1" PVC (SPARE)
- 23 - 1" PVC (SPARE)
- 24 - 1" PVC (SPARE)



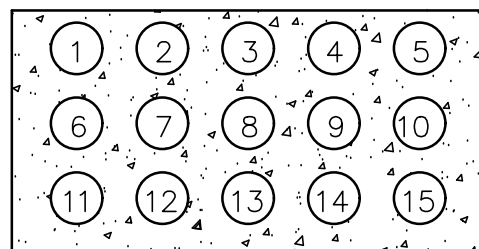
DB-13

- 1 - 2" PVC (480V RAS PS C.P.)
- 2 - 1" PVC (SPARE)
- 3 - 1" PVC (SPARE)
- 4 - 1" PVC (SPARE)



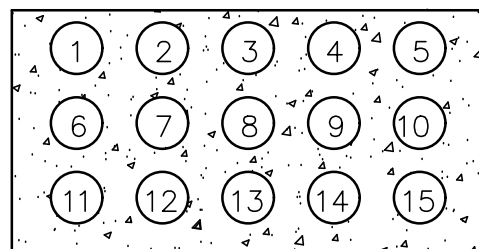
DB-14

- 1 - 1.25" PVC (480V PANEL HE)
- 2 - 2" PVC (FIBER 5 TO LCP-6)
- 3 - 1" PVC (120V POWER)
- 4 - 1" PVC (SPARE)
- 5 - 1" PVC (SPARE)
- 6 - 1" PVC (SPARE)



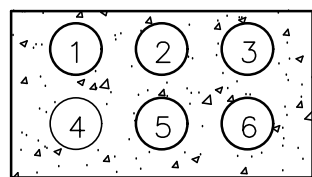
DB-15

- 1 - 2" PVC (480V AERATOR 2A)
- 2 - 1.25" PVC (120V AERATOR 2A)
- 3 - 2" PVC (480V AERATOR 2B)
- 4 - 1.25" PVC (120V AERATOR 2B)
- 5 - 1" PVC (480V FUTURE MIXER)
- 6 - 1" PVC (480V FUTURE MIXER)
- 7 - 1" PVC (480V FUTURE MIXER)
- 8 - 1" PVC (480V FUTURE MIXER)
- 9 - 1" PVC (120V)
- 10 - 1" PVC (SPARE)
- 11 - 1" PVC (SPARE)
- 12 - 2" PVC (SPARE)
- 13 - 2" PVC (SPARE)
- 14 - 2" PVC (SPARE)
- 15 - 1" PVC (SPARE)



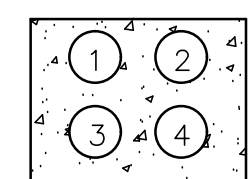
DB-16

- 1 - 2" PVC (480V AERATOR 1A)
- 2 - 1.25" PVC (120V AERATOR 1A)
- 3 - 2" PVC (480V AERATOR 1B)
- 4 - 1.25" PVC (120V AERATOR 1B)
- 5 - 1" PVC (480V MIXER 1)
- 6 - 1" PVC (480V MIXER 2)
- 7 - 1" PVC (480V MIXER 3)
- 8 - 1" PVC (480V MIXER 4)
- 9 - 2" PVC (120V POWER)
- 10 - 2" PVC (120V POWER)
- 11 - 2" PVC (SPARE)
- 12 - 2" PVC (SPARE)
- 13 - 1" PVC (480V FLOW CONTROL GATE)
- 14 - 1" PVC (SPARE)
- 15 - 1" PVC (SPARE)



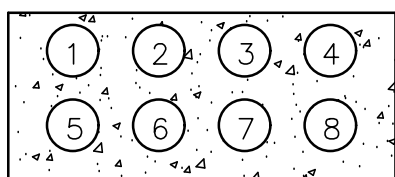
DB-17

- 1 - 1" PVC (480V MIXER 1)
- 2 - 1" PVC (480V MIXER 2)
- 3 - 1" PVC (480V MIXER 3)
- 4 - 1" PVC (480V MIXER 4)
- 5 - 2" PVC (120V POWER)
- 6 - 2" PVC (SPARE)



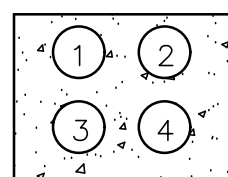
DB-18

- 1 - 2" PVC (POWER TO GATE)
- 2 - 2" PVC (SPARE)
- 3 - 1.5" PVC (SPARE)
- 4 - 1.5" PVC (SPARE)



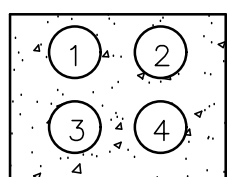
DB-A

- 1 - 2" PRGS (BASIN 1 SIGNALS)
- 2 - 2" PRGS (BASIN 1 SIGNALS)
- 3 - 2" PRGS (SPARE)
- 4 - 2" PRGS (SPARE)
- 5 - 1" PVC (CONTROLS TO LCP-1)
- 6 - 1" PVC (SPARE)
- 7 - 2" PRGS (ETHERNET & SIGNALS TO LCP-1)
- 8 - 1" PVC (SPARE)



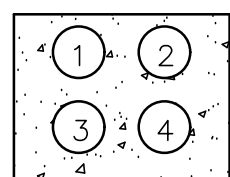
DB-B

- 1 - 1.5" PRGS (BASIN 1 SIGNALS)
- 2 - 1" PRGS (BASIN 1 CONTOLS)
- 3 - 1" PRGS (SPARE)
- 4 - 1" PRGS (SPARE)



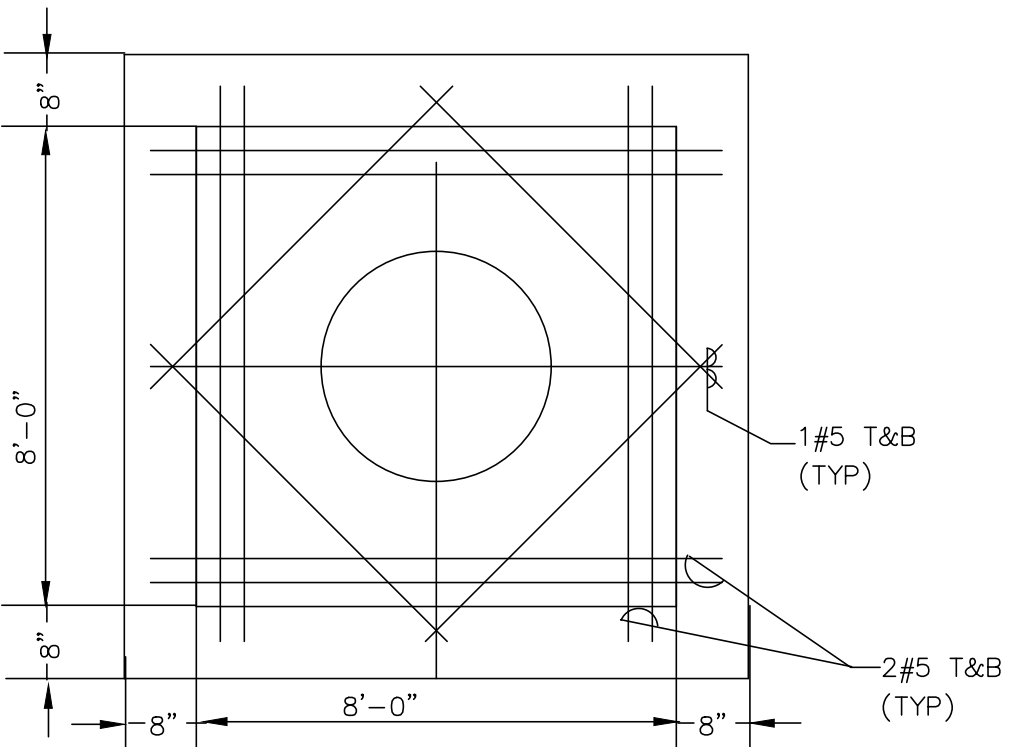
DB-C

- 1 - 1.5" PRGS (BASIN 1 SIGNALS)
- 2 - 1" PRGS (BASIN 1 CONTOLS)
- 3 - 1" PRGS (SPARE)
- 4 - 1" PRGS (SPARE)



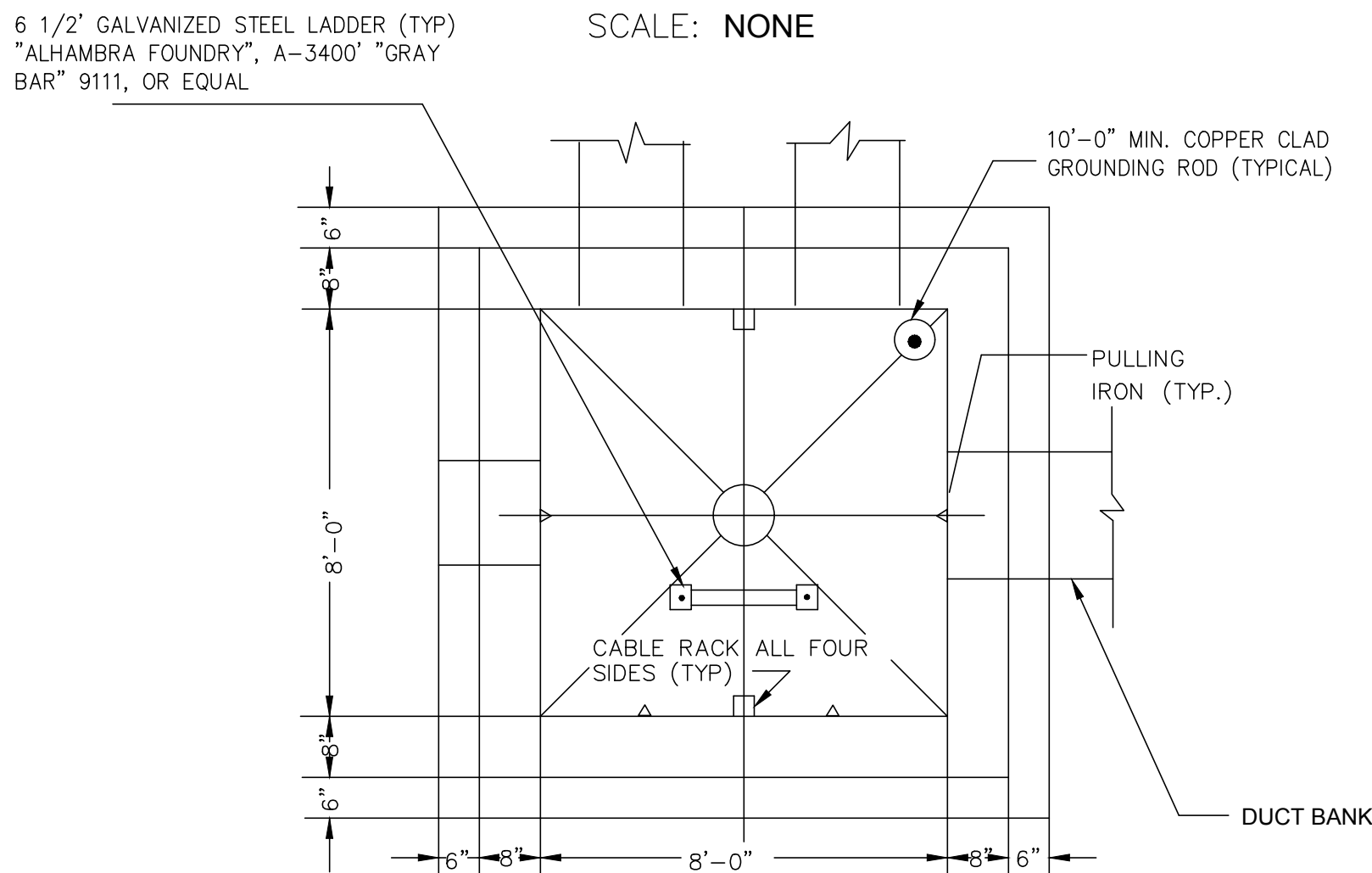
DB-D

- 1 - 1.5" PRGS (BASIN 1 SIGNALS)
- 2 - 1" PRGS (BASIN 1 CONTOLS)
- 3 - 1" PRGS (SPARE)
- 4 - 1" PRGS (SPARE)



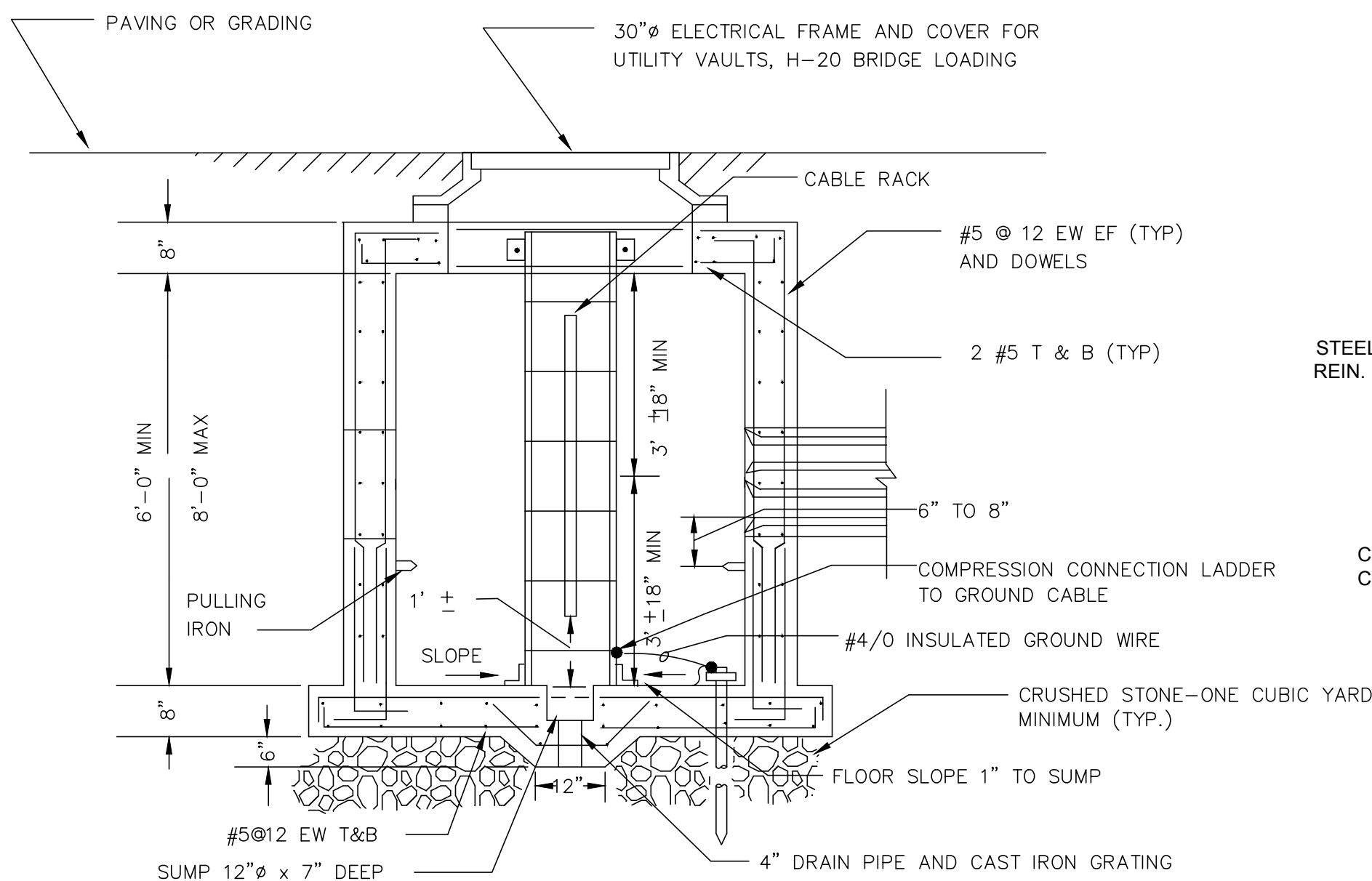
TOP PLAN

SCALE: NONE



BOTTOM PLAN

SCALE: NONE

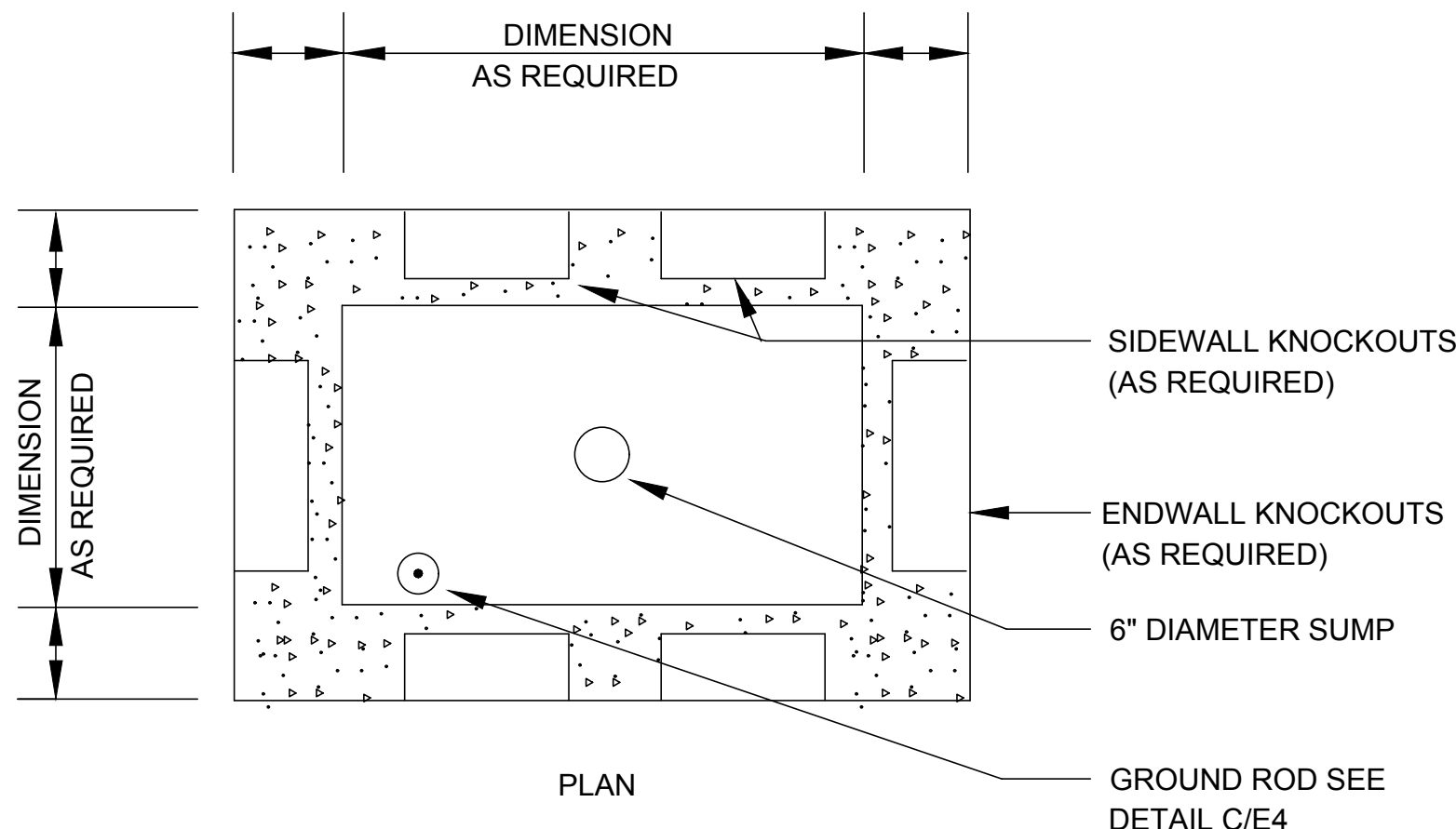


TYPICAL MANHOLE PLAN AND ELEVATION

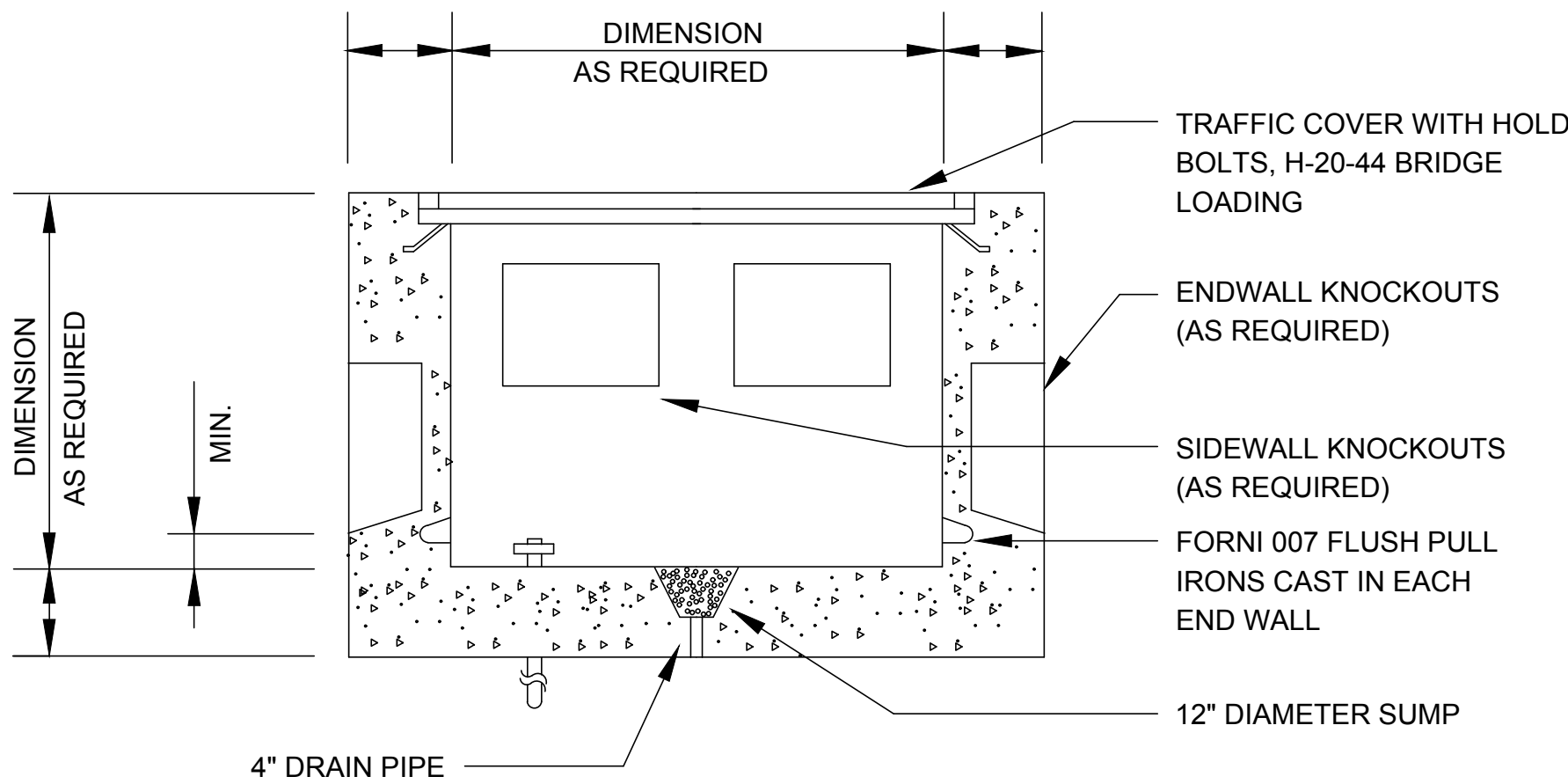
SECTION A

SCALE: NONE

- NOTES:
1. PRGS = PVC COATED RIGID GALVANIZED STEEL.
 2. INSTALL A #4/0 BARE COPPER GROUND WIRE IN DUCTBANKS. BOND TO GROUND RINGS, PLATFORMS, HANDRAILS, UTILITY RACKS, AND EQUIPMENT..



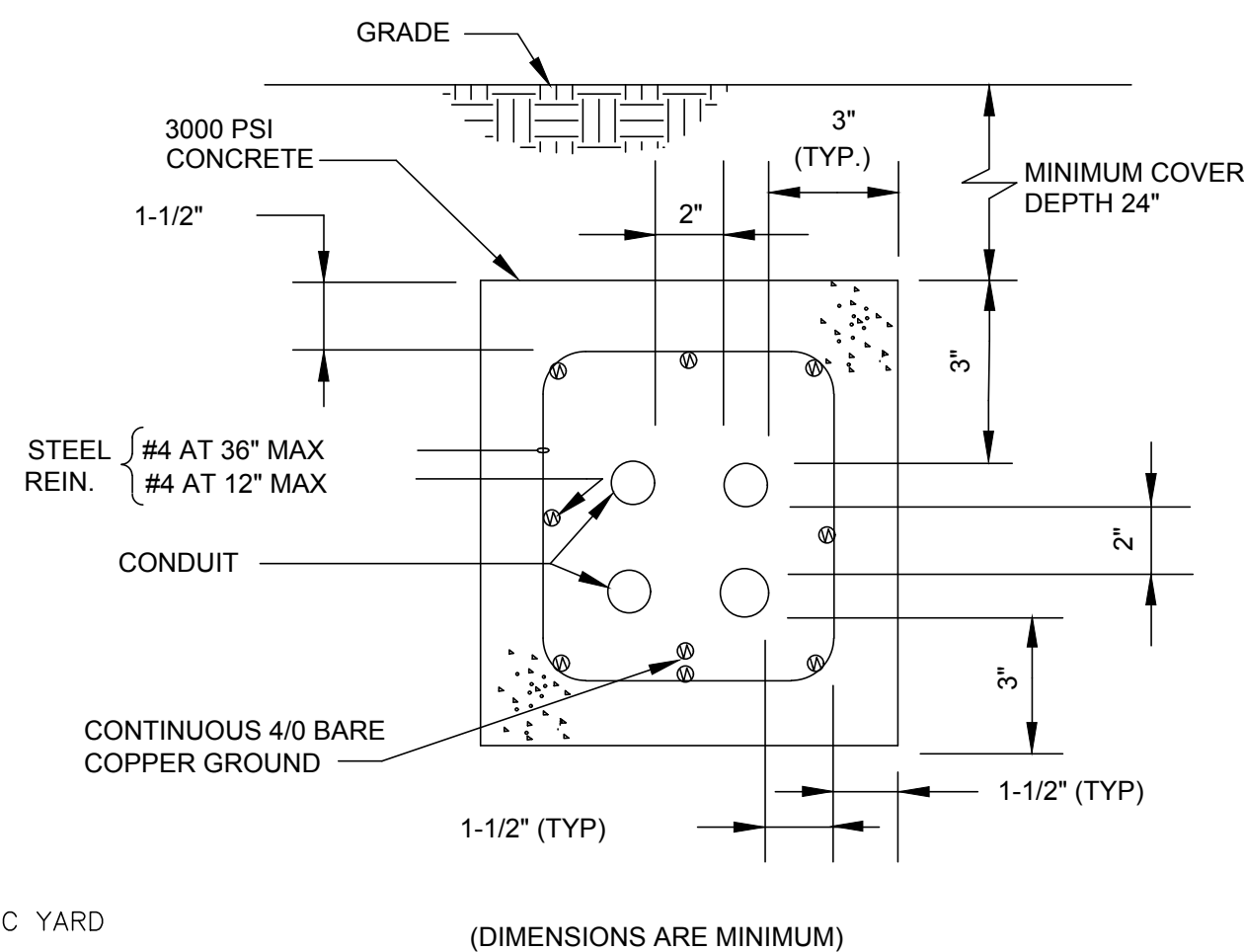
PLAN



TYPICAL HAND-HOLE DETAIL

DETAIL B

SCALE: NONE



REINFORCED DUCT BANK SECTION

DETAIL C

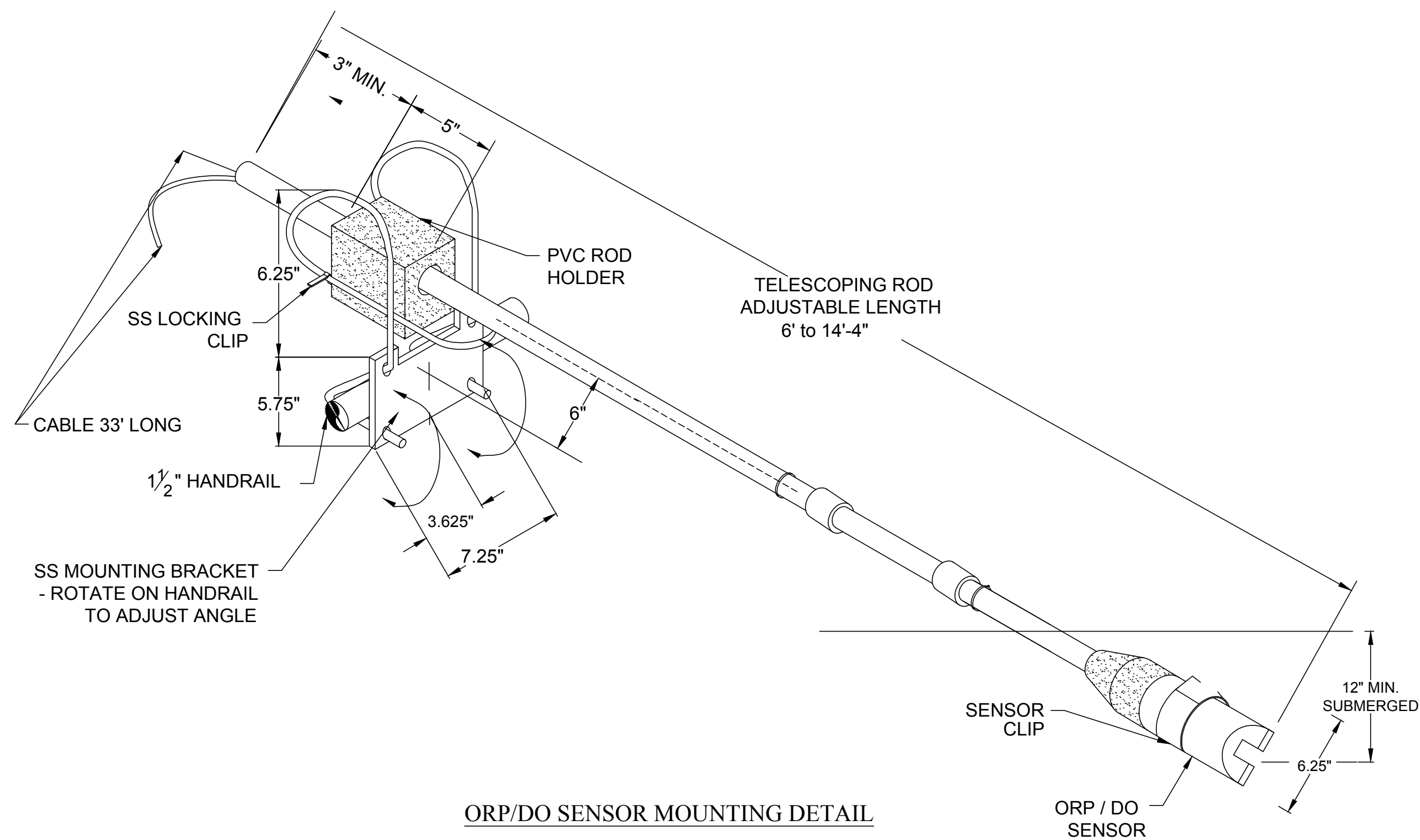
SCALE: NONE



ESAD PROJECT #23003

ESAD LLC
835 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

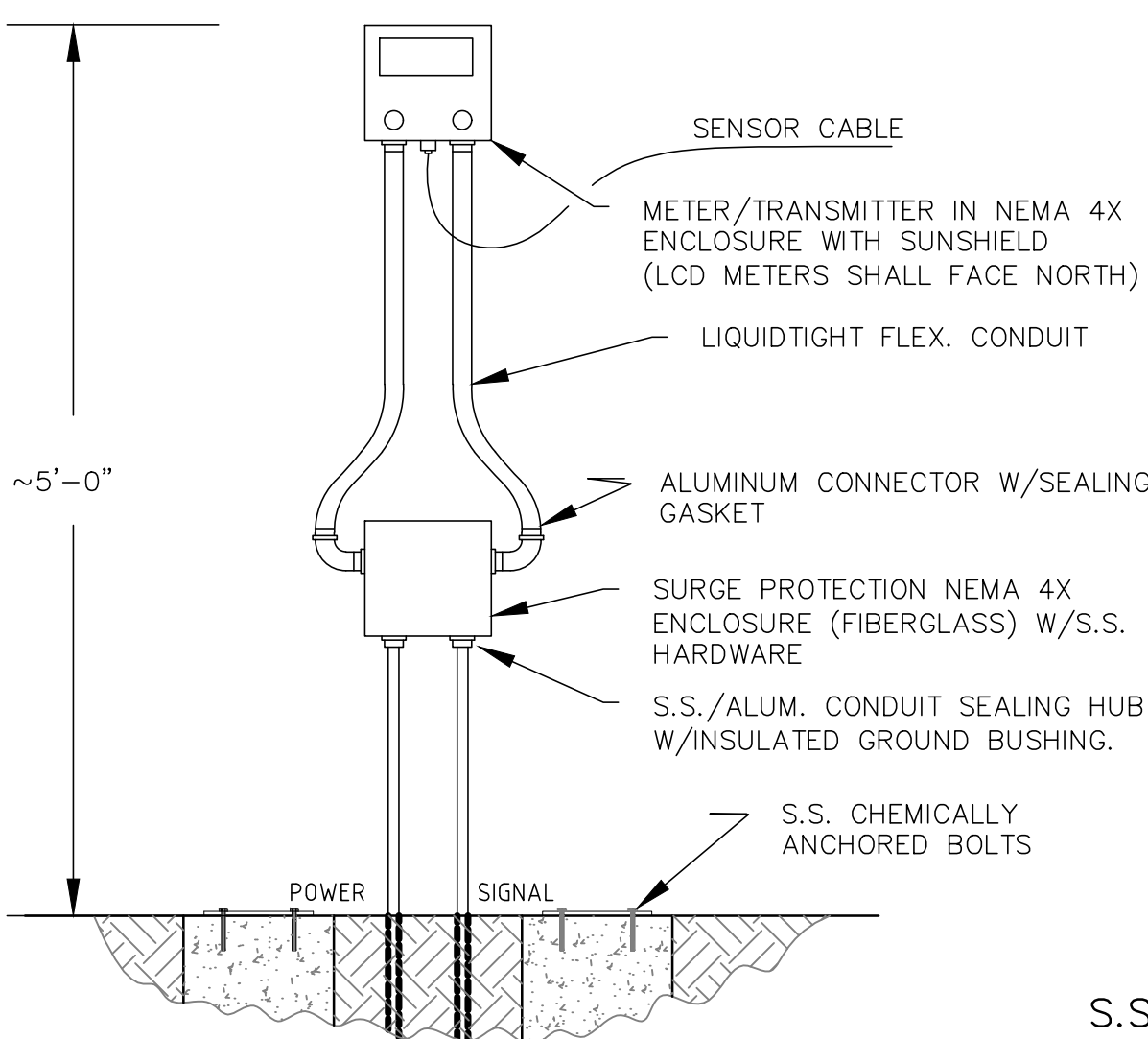
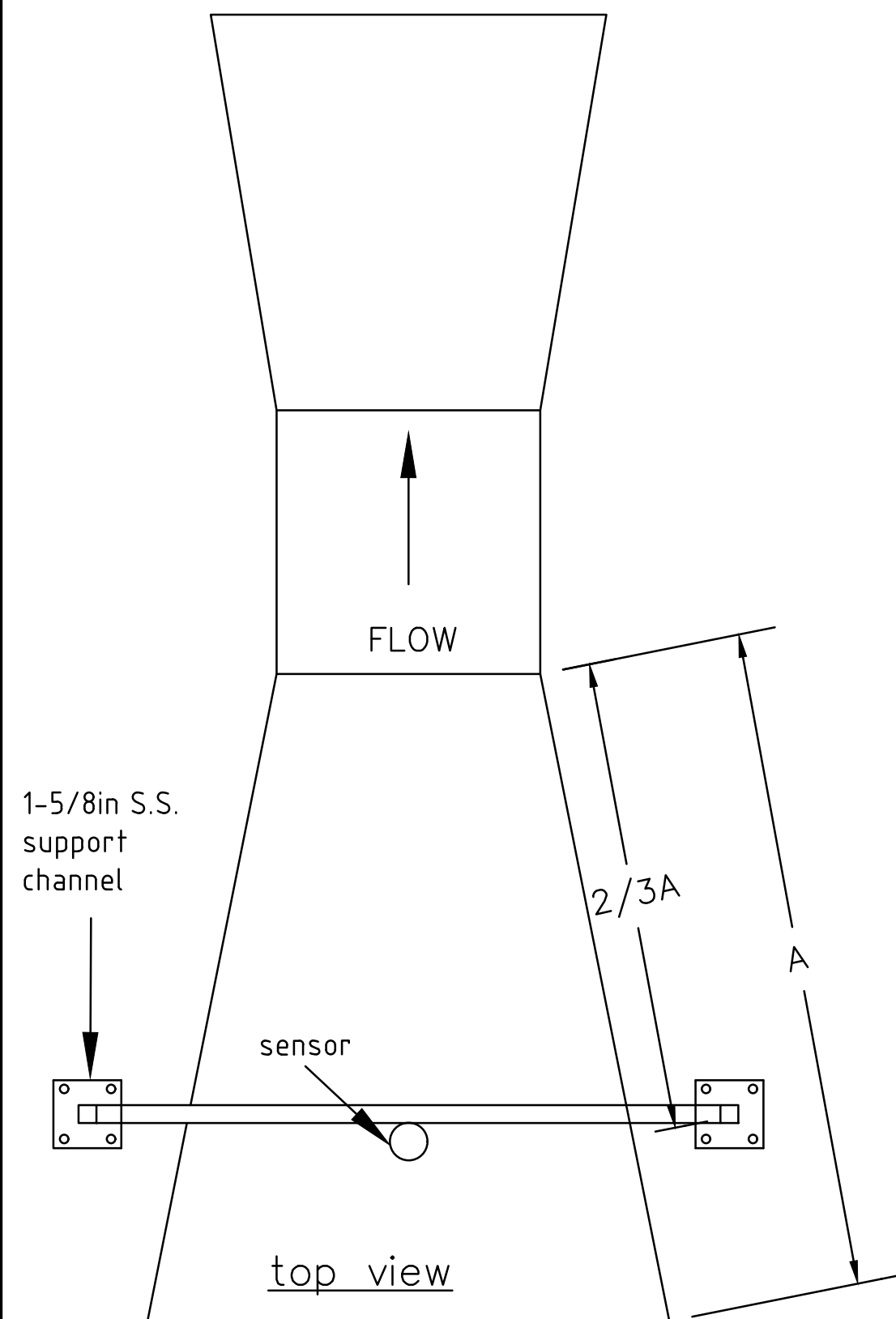
REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
DRAWN		CHECKED	
AP	DMZ	SCALE: AS SHOWN	
		DATE: JANUARY 2024	
TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 83 OF 103	



ORP/DO SENSOR MOUNTING DETAIL

DETAIL A
84

SCALE: NONE



TRANSMITTER WALL MOUNT

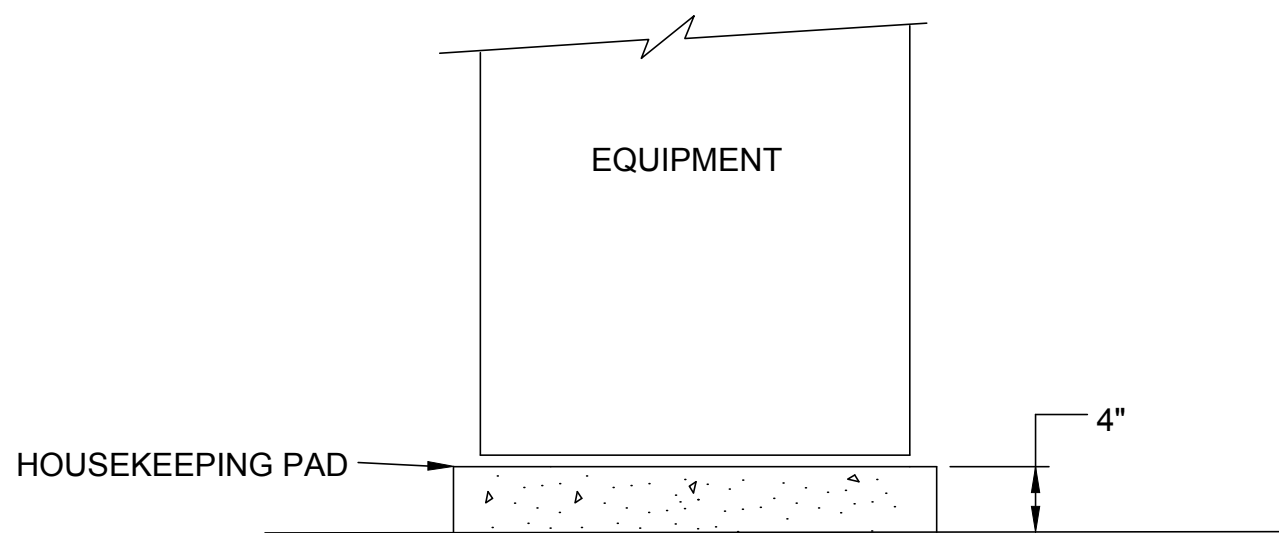
- NOTE
1. WIRING AS INDICATED.
 2. DEVICES SHALL BE MOUNTED FOR BEST VIEWING AND SERVICE ACCESS.
 3. CONDUIT AND STAND MATERIALS AS INDICATED FOR THE INSTALLED ENVIRONMENT.
 4. SUPPORT DEVICES AS REQUIRED BY CONDITIONS, I.E. 2" PIPE, STRUT, HANDRAIL, ETC. SUPPORTS SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE SHALL BE STAINLESS STEEL.

PARSHALL FLUME DETAIL

DETAIL C
84

SCALE: NONE

- NOTES:
- 1) Install as close to indicated as possible without violating manufacturer's recommendations. Minimum $A = \sin(X) \cdot B$, where X = sensor's beam divergence angle.
 - 2) Mounting hardware and supports shall be 316 S.S. Add support as needed to keep equipment from moving during operation. When available, handrails may be used for equipment mounting.
 - 3) Install sensor at a height greater than the calibrated maximum flow head plus the meter's minimum deadband (DB), parallel to the flowing surface. Secure sensor cable to support channel without making sharp bends, but as needed for proper strain relief. If not subject to submergence and easily removed for maintenance, sensors may be mounted below gratings. However, the sonic path must be free of all obstructions. Cutouts in obstructions are acceptable if they do not compromise structural integrity and have smooth, sealed edges.

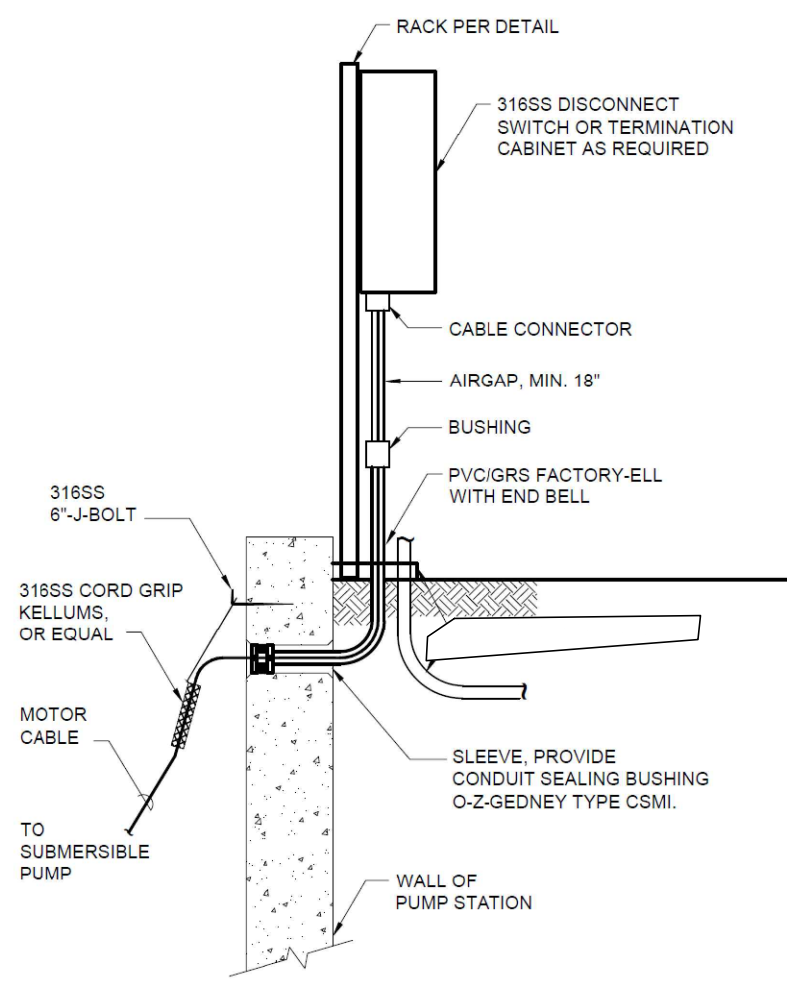


- NOTES:
1. EQUIPMENT MUST BE LEVEL.
 2. CHAMFER EDGES.

TYPICAL FLOOR MOUNTING FOR MOTOR CONTROL CENTERS, CONTROL PANELS, SWITCHGEARS, AND FREE STANDING EQUIPMENT

DETAIL B
84

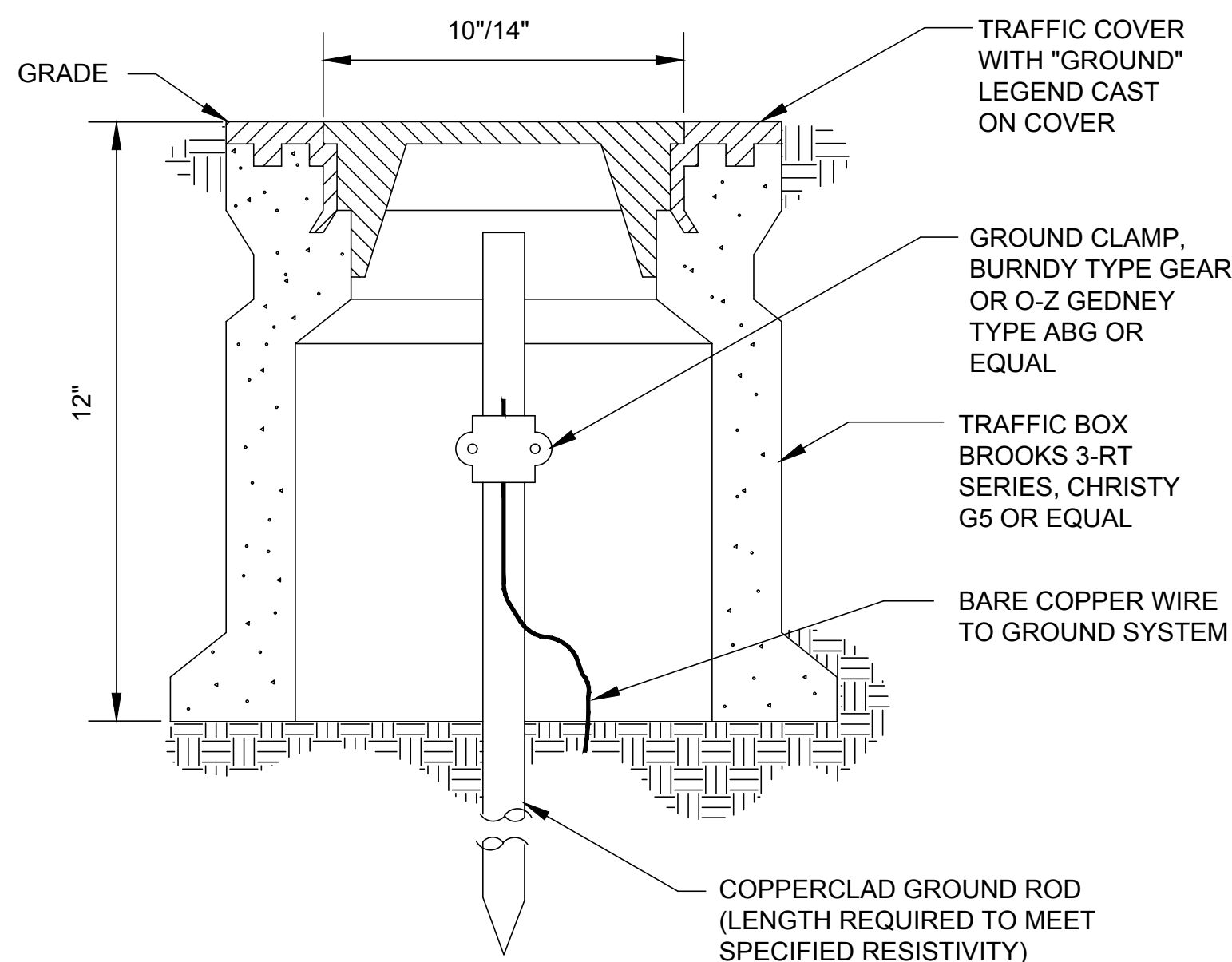
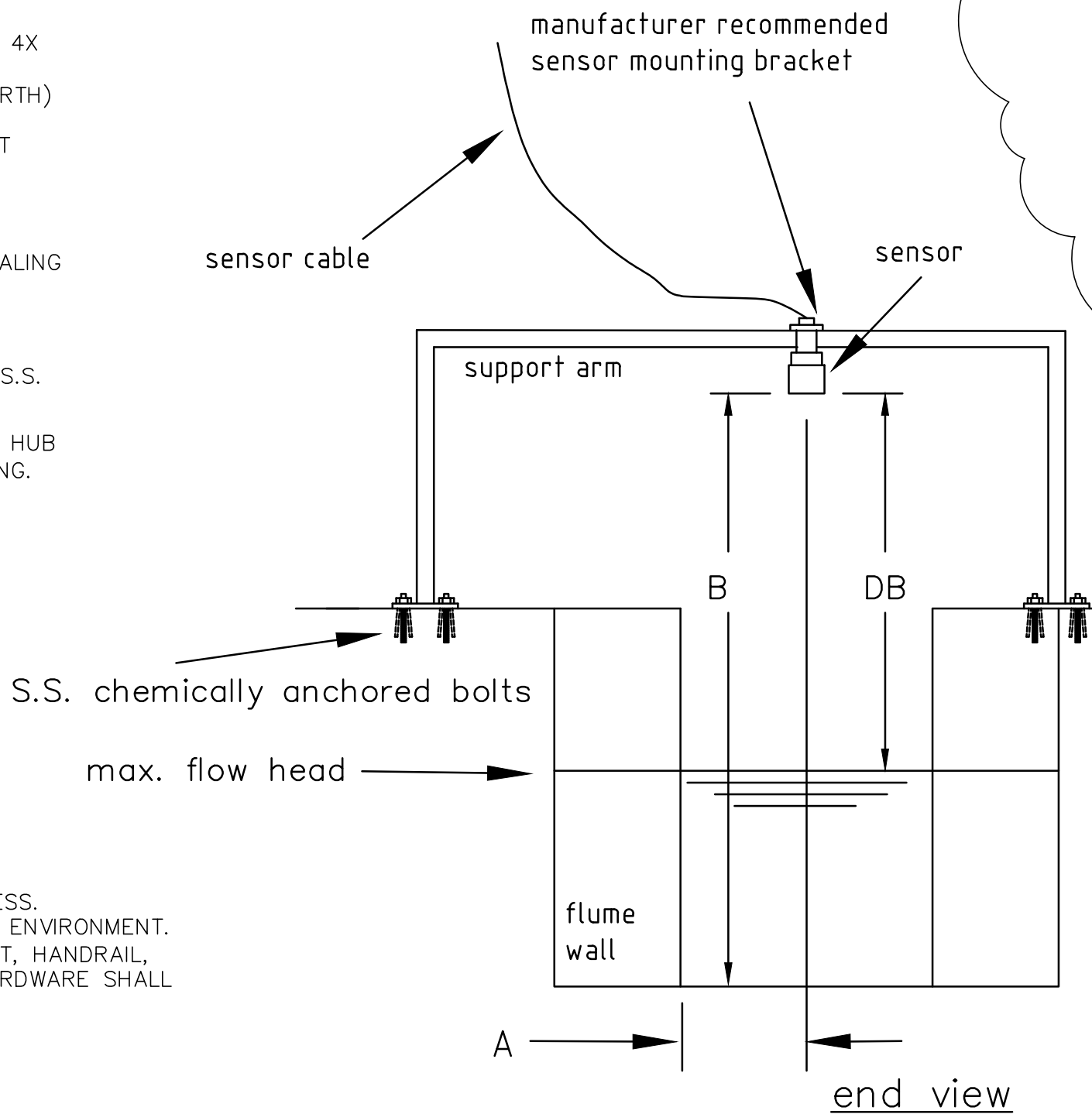
SCALE: NONE



SUBMERSIBLE PUMP INSTALLATION

DETAIL E
84

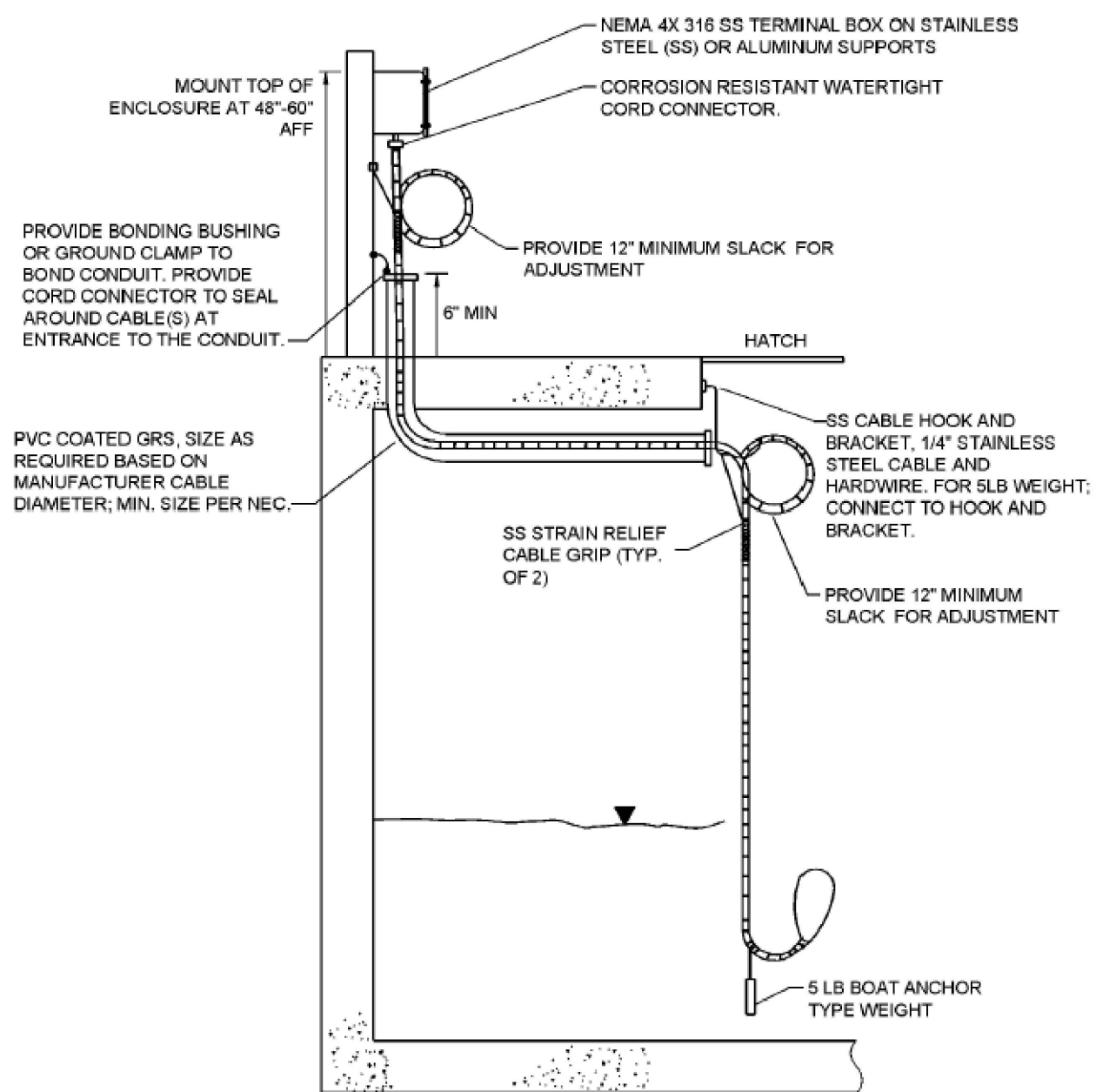
SCALE: NONE



GROUND WELL AND ROD

DETAIL D
84

SCALE: NONE



FLOAT SWITCH

DETAIL F
84

SCALE: NONE

- NOTES:
1. PROVIDE AIR GAP BETWEEN CONDUITS EMERGING FROM WET WELL & TB. USE STRAIN RELIEF CABLE CONNECTORS & CABLE GRIPS FOR EACH CONDUIT & CABLE. PROVIDE HORIZONTAL SUPPORT FOR CABLE GRIPS. ALL MATERIALS SHALL BE CORROSION RESISTANT STAINLESS STEEL (SS) OR ALUMINUM.
 2. PROVIDE UL LISTED TERMINAL BLOCKS & GROUNDING LUGS FOR ALL CONNECTIONS.
 3. CABINETS SHALL BE SIZED AS A MIN. PER NEC REQUIREMENTS.
 4. TERMINAL AND/OR JUNCTION BOXES SHOULD BE MOUNTED A MIN. OF 36" AWAY FROM HATCH OPENINGS AND 60" AWAY FROM VENTS.

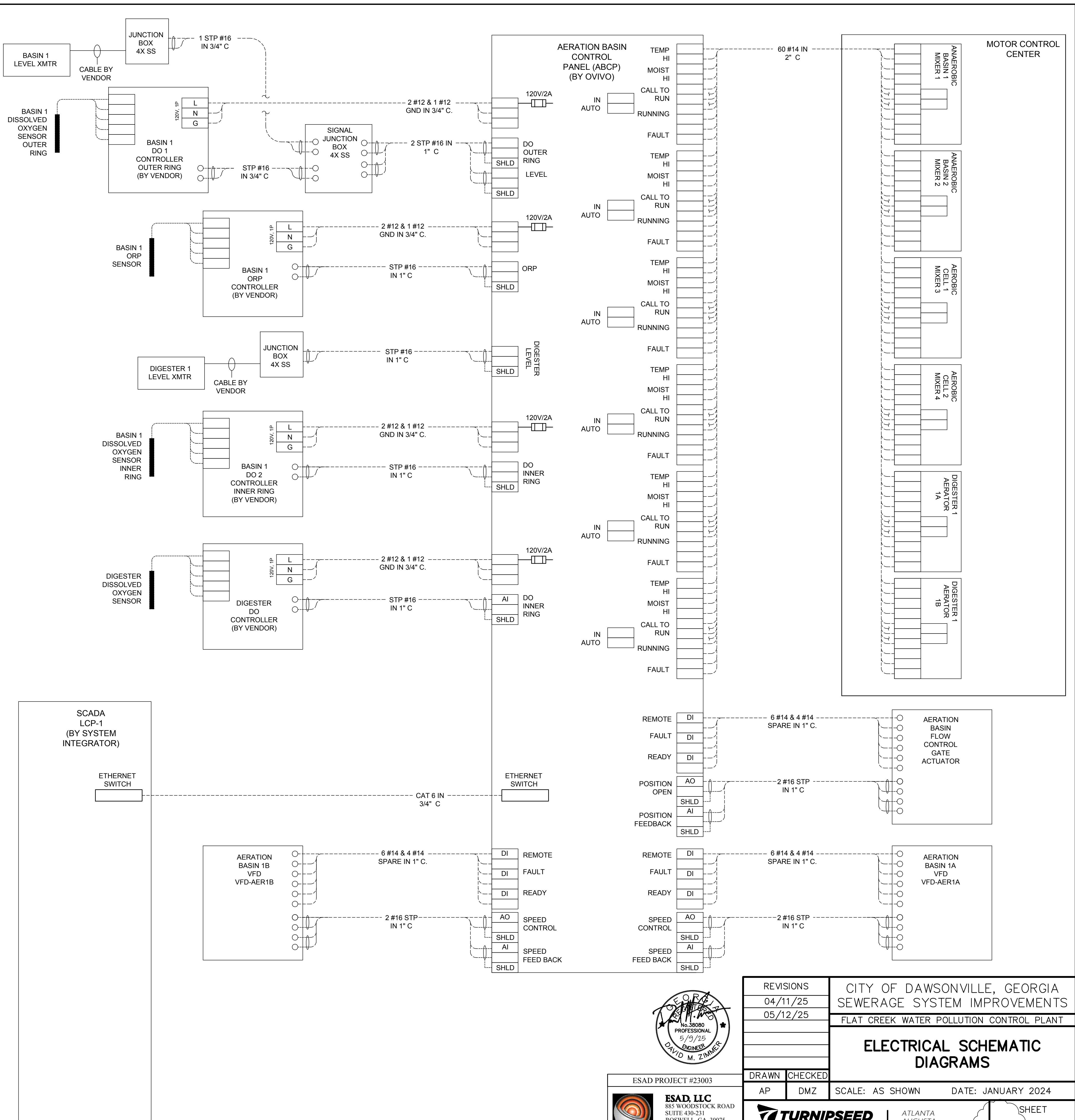


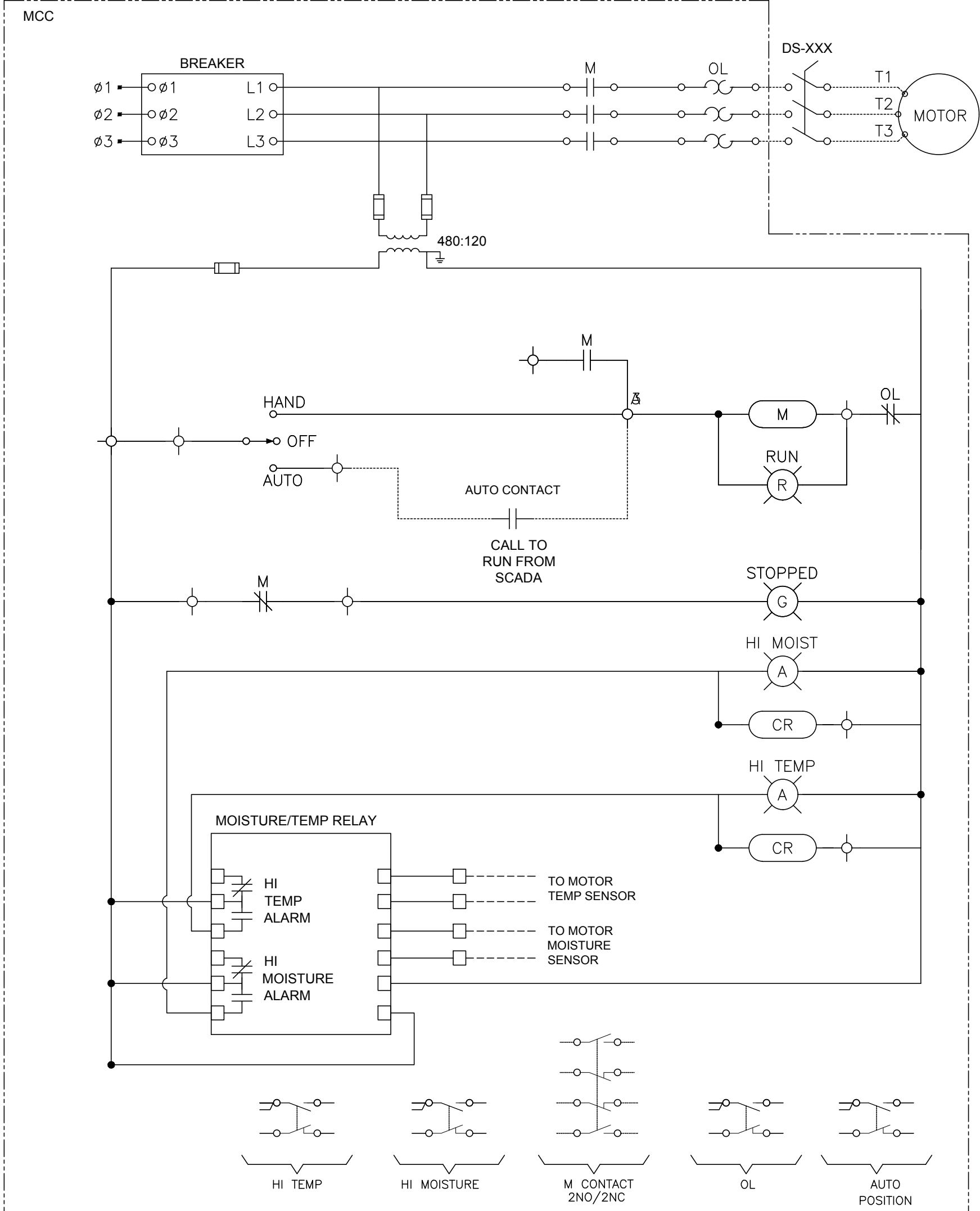
ESAD PROJECT #23003



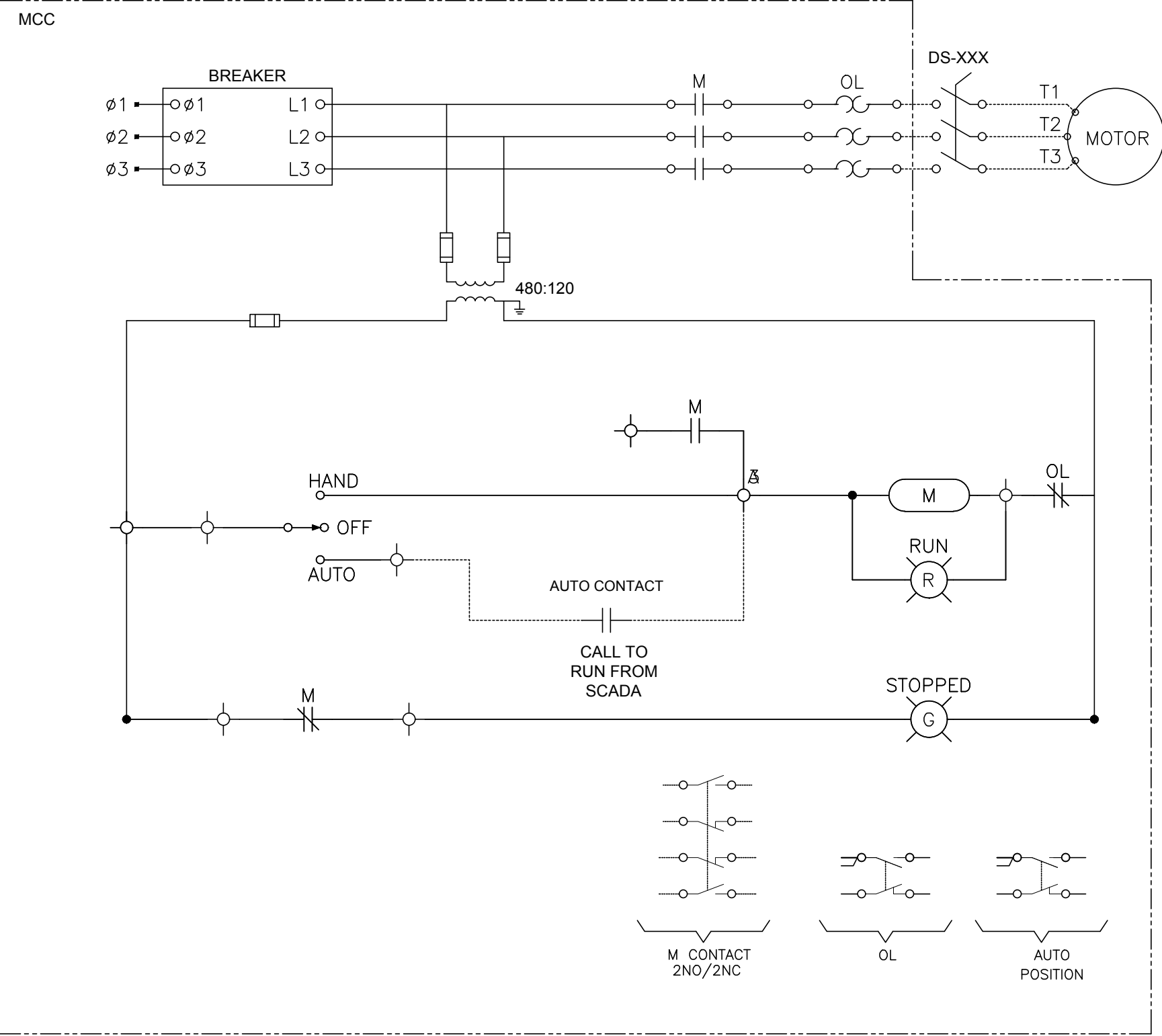
ESAD, LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS FLAT CREEK WATER POLLUTION CONTROL PLANT	
04/11/25			
05/12/25			
		ELECTRICAL DETAILS	
DRAWN		CHECKED	
AP		DMZ	
SCALE: AS SHOWN		DATE: JANUARY 2024	
 TURNIPSEED ENGINEERS		ATLANTA AUGUSTA ST. SIMONS ISLAND	
		SHEET 84 OF 103	

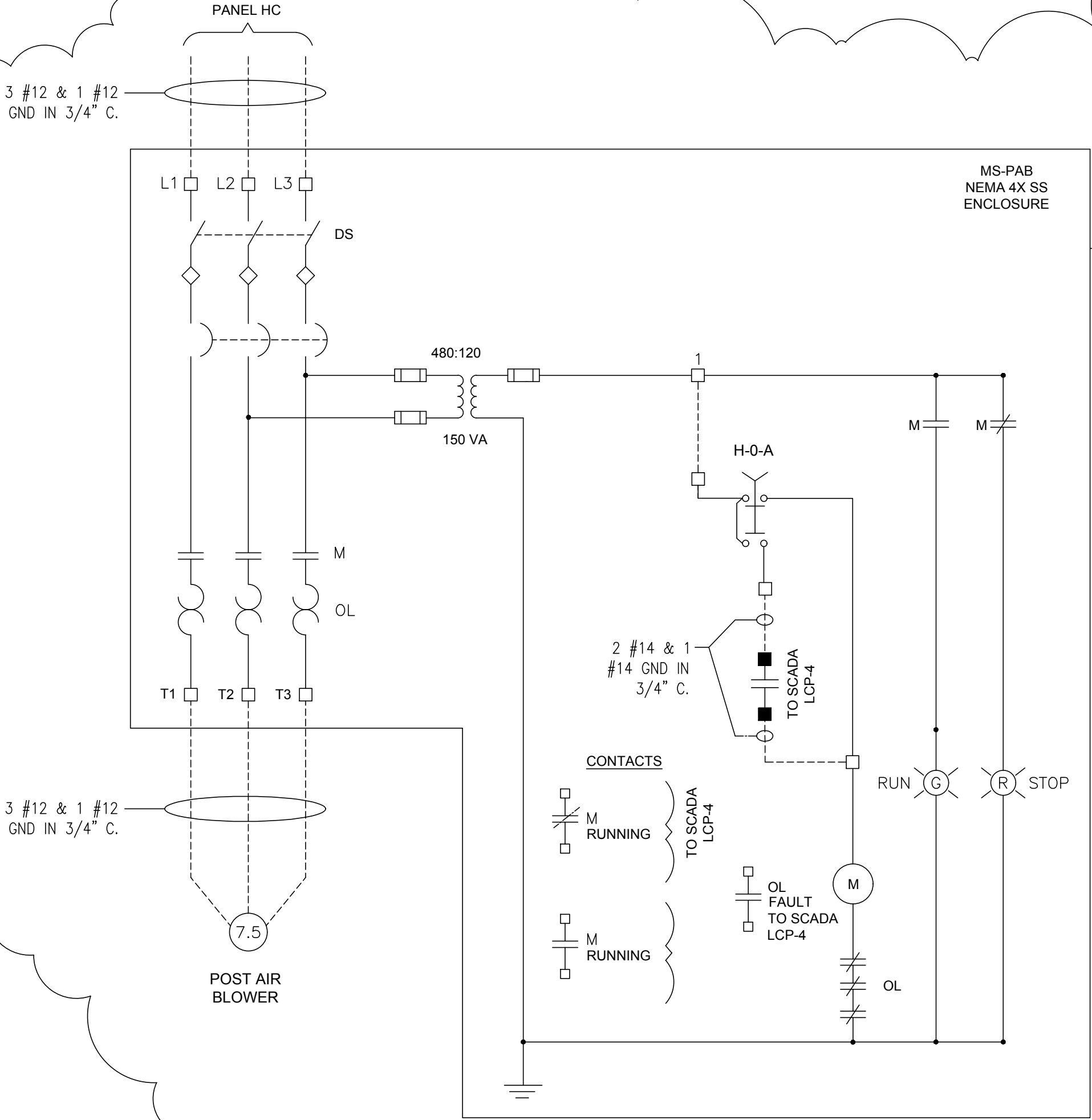




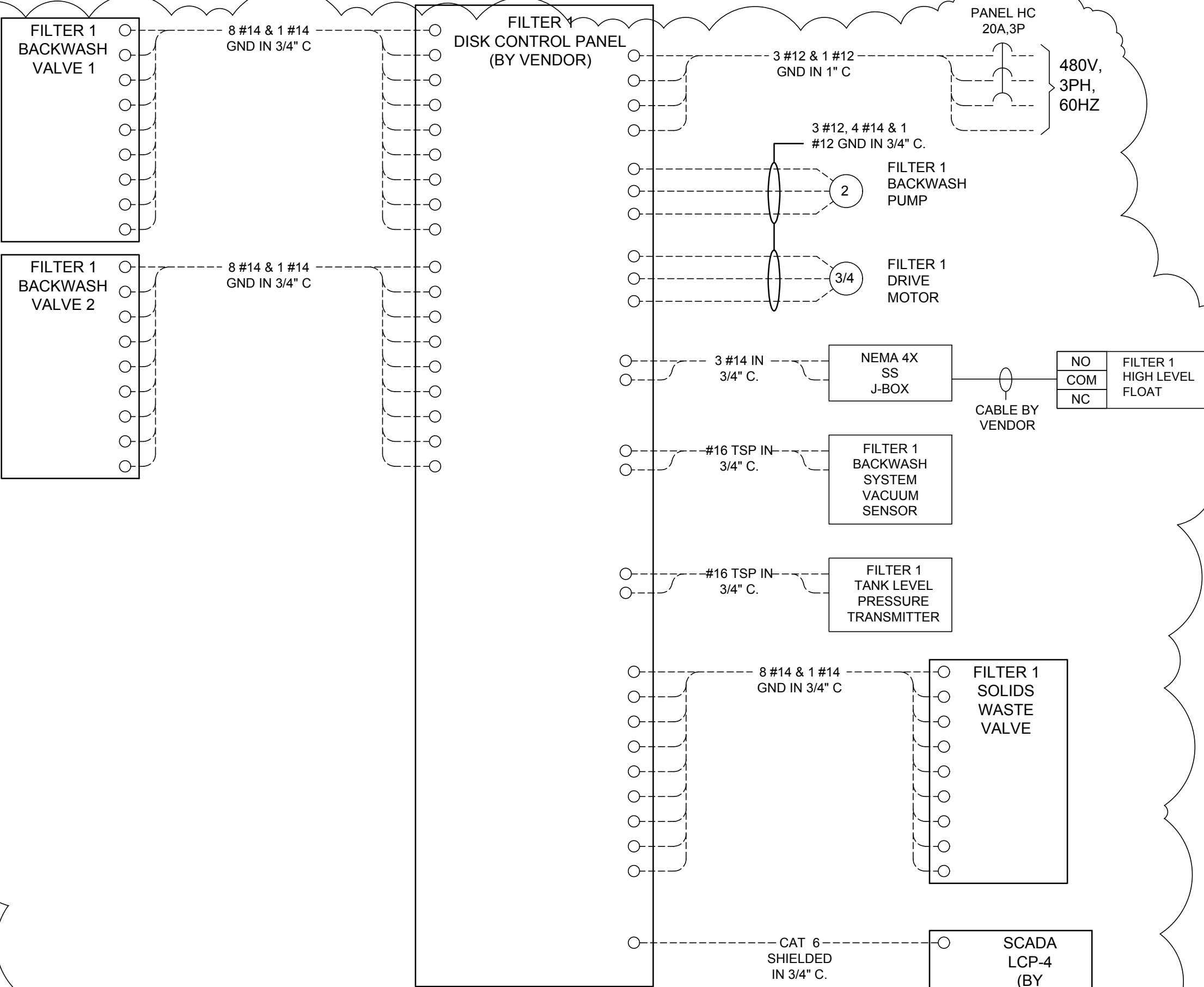
MOTOR ELEMENTARY - FVNR
SCHEMATIC (TYPICAL FOR 4 MIXERS)



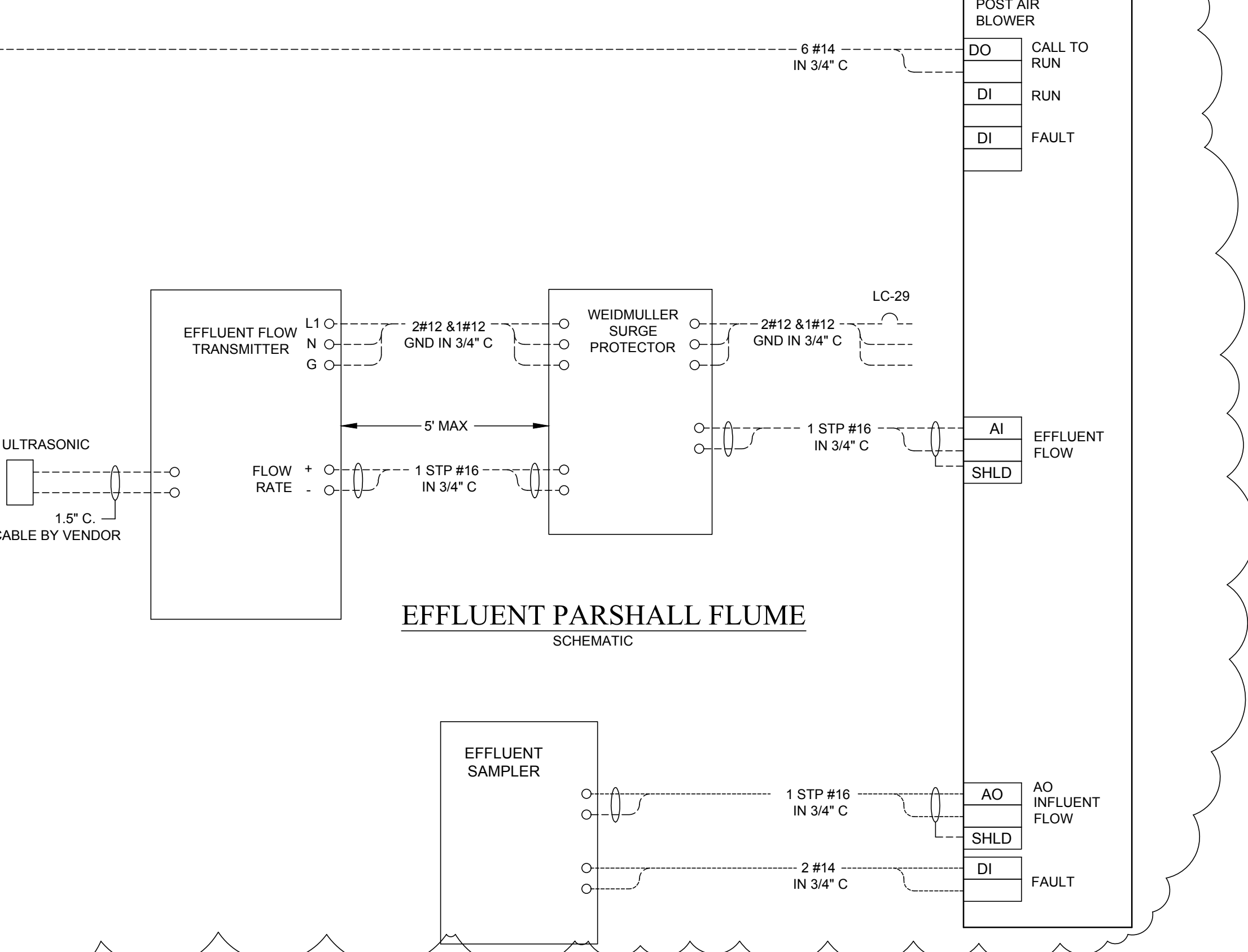
MOTOR ELEMENTARY - FVNR
SCHEMATIC (TYPICAL FOR 2 DIGESTERS AND REUSE PUMP)



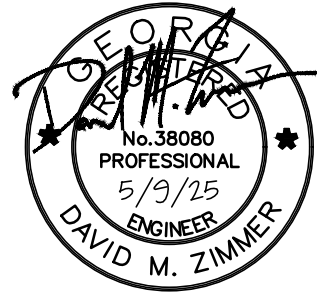
POST AIR BLOWER MOTOR STARTER SCHEMATIC



DISC FILTER CONTROL PANEL
SCHEMATIC (TYPICAL FOR 2)



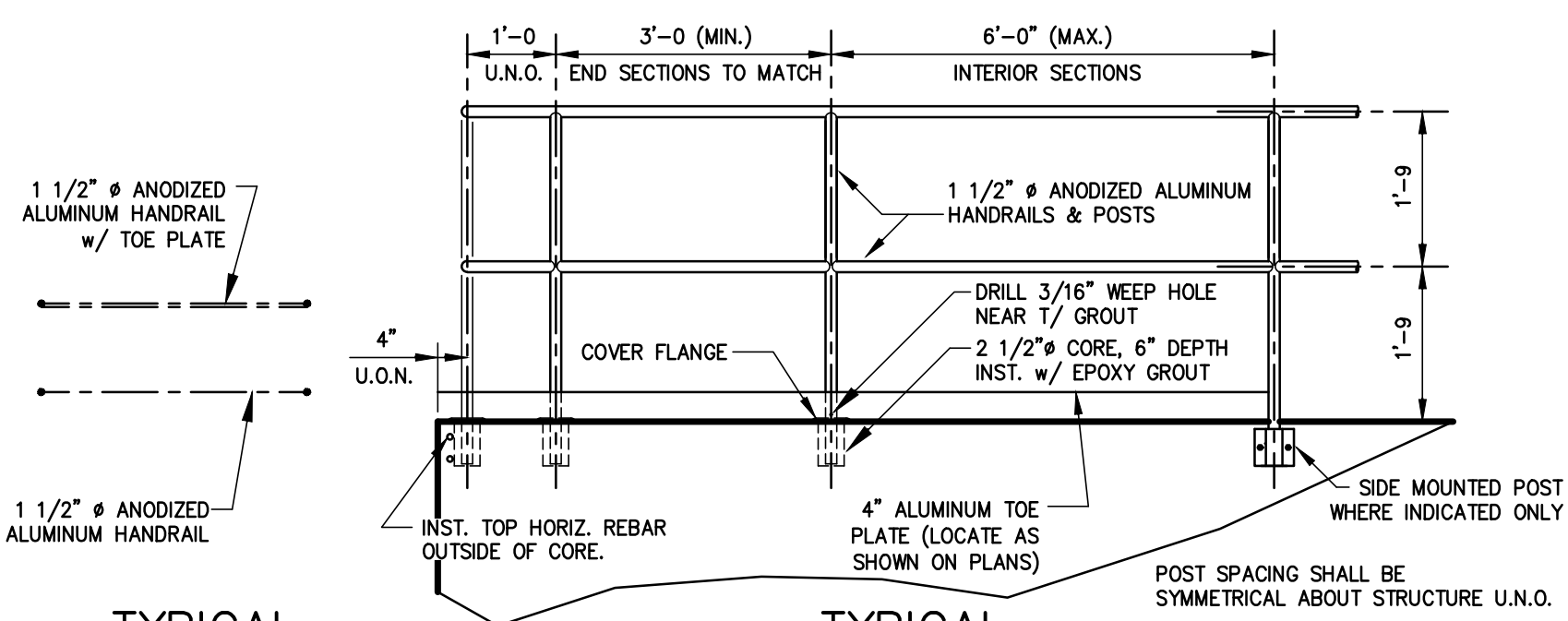
EFFLUENT PARSHALL FLUME
SCHEMATIC



REVISIONS		CITY OF DAWSONVILLE, GEORGIA SEWERAGE SYSTEM IMPROVEMENTS	
04/11/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25		CONTROL WIRING DIAGRAM	
DRAWN		CHECKED	
AP		DMZ	
SCALE: AS SHOWN		DATE: JANUARY 2024	
ESAD PROJECT #23003		SHEET 86 OF 103	

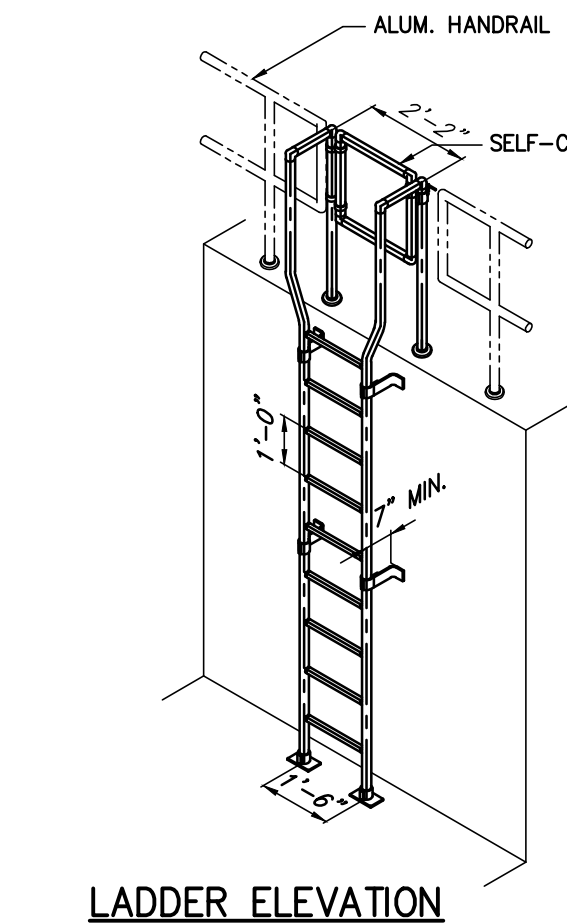


ESAD LLC
885 WOODSTOCK ROAD
SUITE 430-231
ROSWELL, GA 30075
PH: 678-469-5196

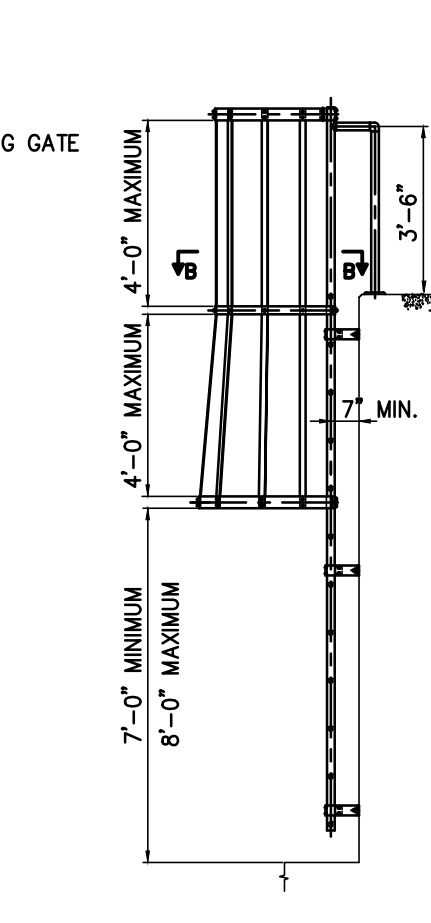


TYPICAL HANDRAIL PLAN

TYPICAL HANDRAIL ELEVATION

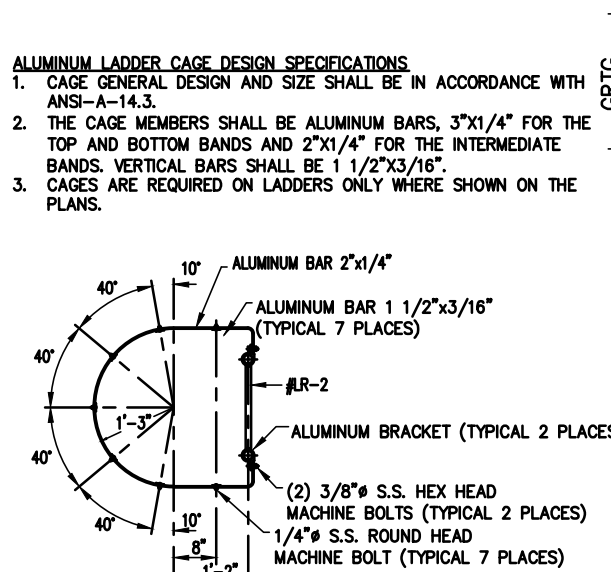


LADDER ELEVATION



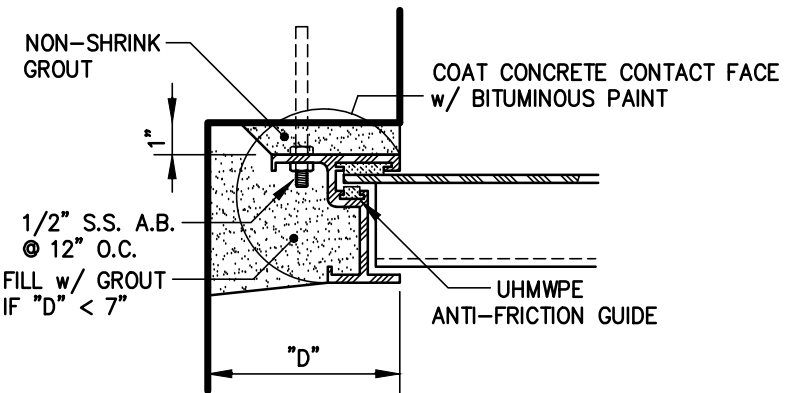
CAGED LADDER ELEVATION

- ALUMINUM LADDER DESIGN SPECIFICATIONS**
1. RUN DESCRIPTION: THE RUN SHALL BE DESIGNED TO PROVIDE A NON-SLIP POWER GRIP SURFACE WITH A FLAT 1" WIDE SERRATED TOP SURFACE AND A SEMICIRCULAR BOTTOM.
 2. SIDE RAIL DESCRIPTION: THE SIDE RAIL SHALL BE 1 1/2" SCHEDULE 40 PIPE, ALLOY 6061-T6, R105-15 OR 6061-T6.
 3. CODES: THE LADDER SHALL MEET THE REQUIREMENTS OF ANSI-A14.3.
 4. DESIGN LOADS:
 - (a) LADDER RUNS SHALL BE DESIGNED TO WITHSTAND A CONCENTRATED LOAD OF 250 POUNDS PLUS 30% IMPACT. MAXIMUM RUN DEFLECTION SHALL NOT EXCEED L/360. THE DESIGN LOAD SHALL BE APPLIED AT THE CENTER OF THE RUN ON A 4" WIDE AREA.
 - (b) LADDER SIDE RAILS SHALL BE DESIGNED TO WITHSTAND A MINIMUM LIVE LOAD OF TWO 250 POUND LOADS PLUS 30% IMPACT CONCENTRATED BETWEEN ANY TWO CONSECUTIVE ATTACHMENTS.
 5. FINISH: PIPE FOR SIDE RAILS SHALL HAVE AL. ASSOC. A41 FINISH. RUNS, CAGE AND BRACKETS ARE TO BE MILL FINISH.
 6. SELF-CLOSING GATES ARE REQUIRED WHERE SHOWN ON PLANS.

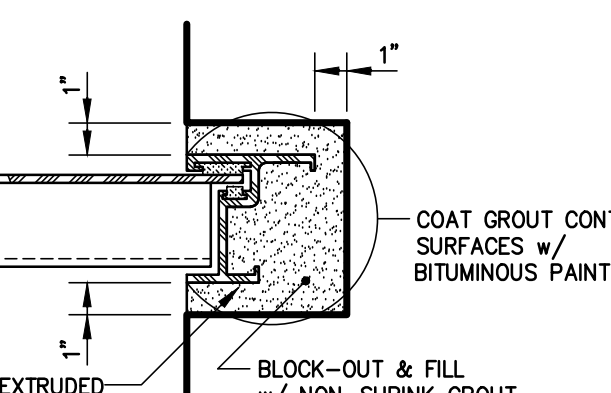


SECTION B-B

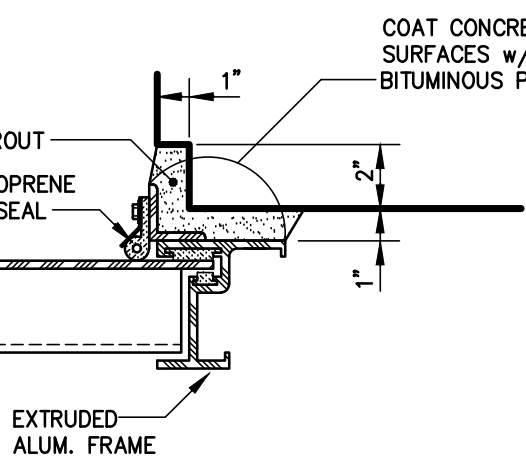
TYPICAL ALUMINUM LADDER & CAGE DETAILS



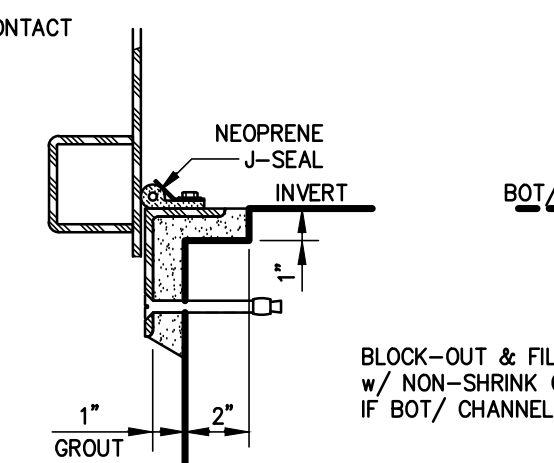
SECTION B FACE MOUNT



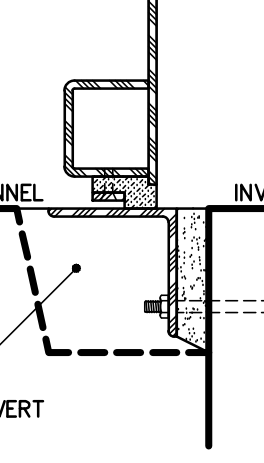
SECTION C EMBED MOUNT



SECTION A

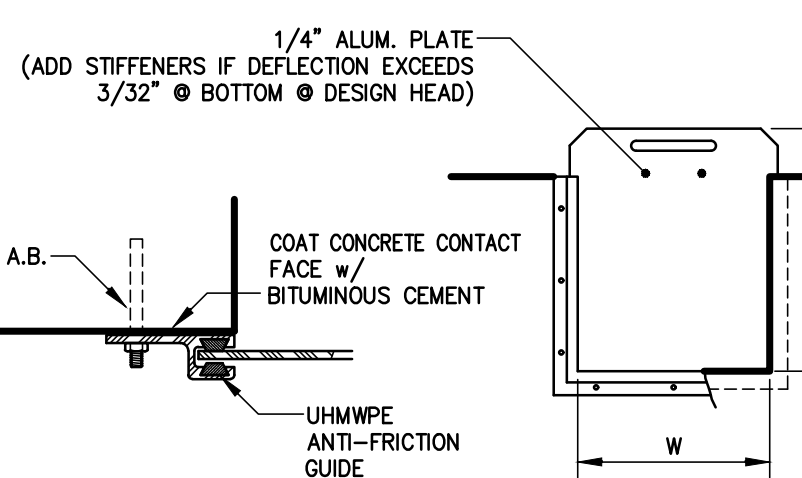


SECTION D

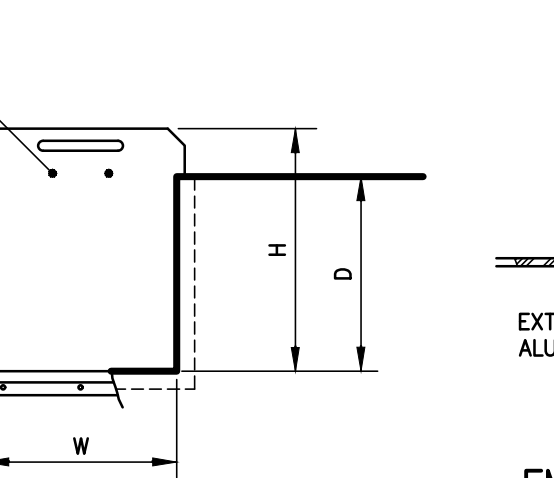


SECTION E

ALUMINUM GATE DETAILS



FACE MOUNT



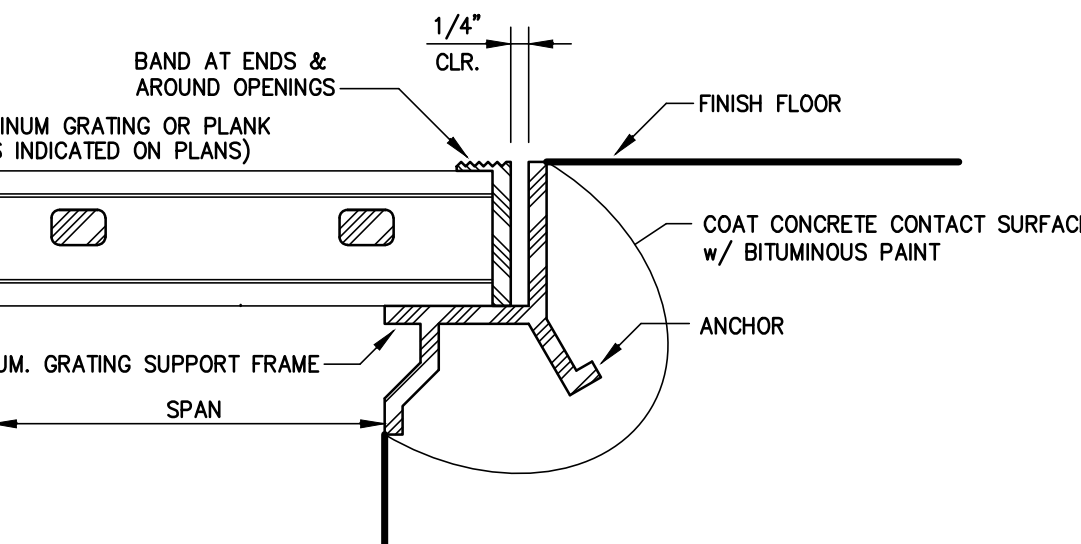
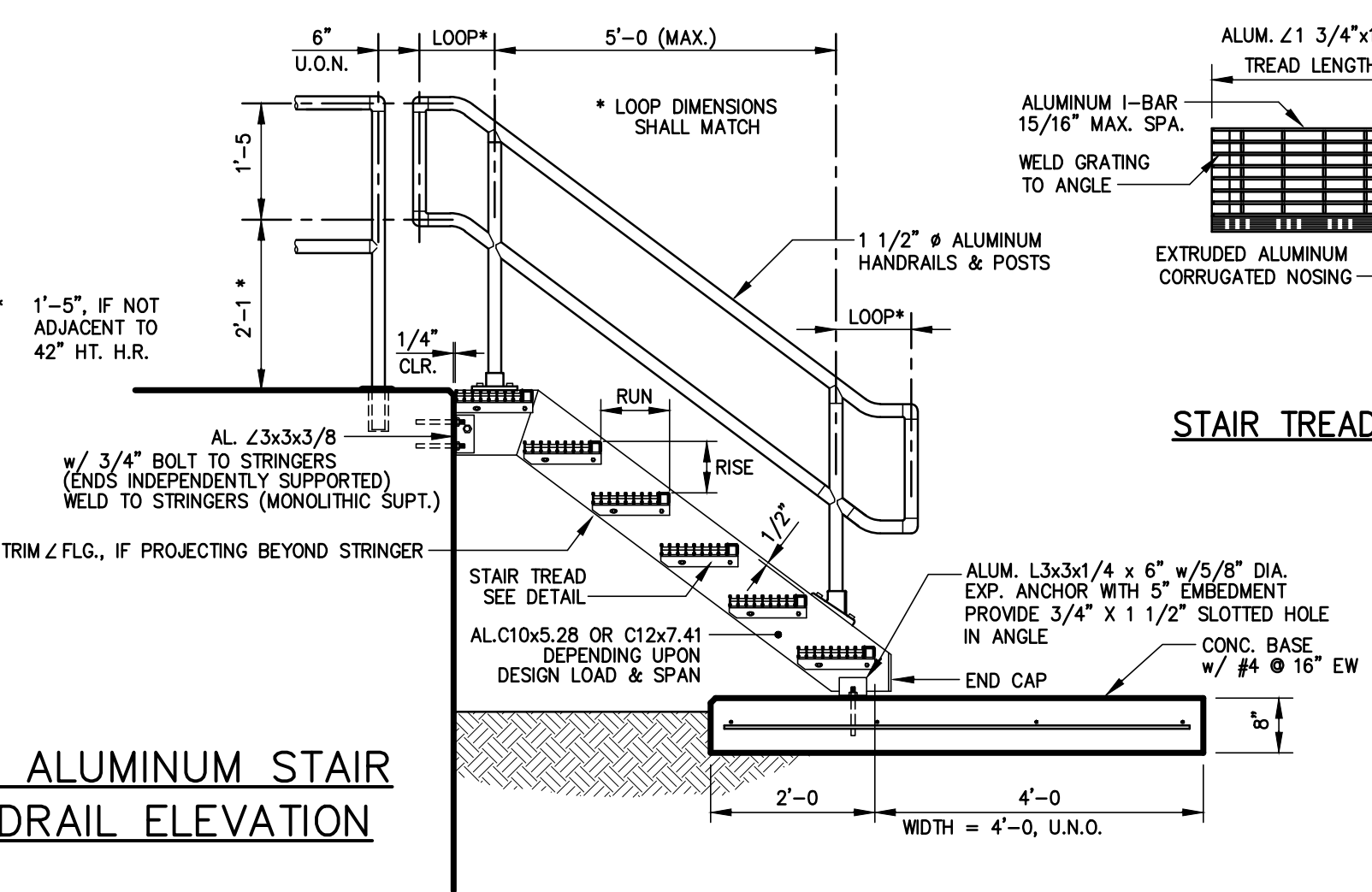
ELEVATION

ALUMINUM STOP GATE DETAILS

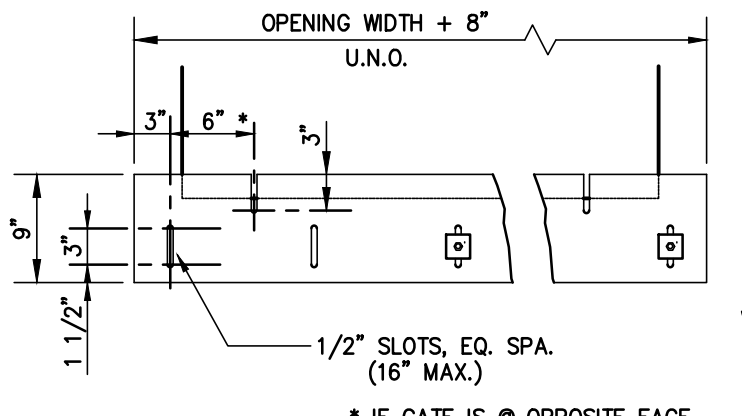
HANDRAIL DESIGN SPECIFICATIONS

1. HANDRAIL SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
2. GUARDRAILS/HANDRAILS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND SHALL BE DESIGNED TO WITHSTAND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION TO THE TOP RAIL OR A UNIFORM LOAD APPLIED IN ANY DIRECTION AT THE TOP RAIL. WHICHEVER IS WORSE. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL, IF REQUESTED BY THE ENGINEER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. POSTS SHALL BE SPACED NOT OVER 4'-0" ON CENTER BASED ON A 1 1/2" SCHEDULE 40 ALUMINUM PIPE (6061-T6 ALUMINUM). GREATER POST SPACINGS ARE ALLOWED IF THEIR MEMBERS AND THEIR CONNECTIONS MEET THE REQUIRED DESIGN LOADS. SEE SPECIFICATIONS FOR MATERIAL.
3. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS. OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-R1).
4. THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
5. ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.
6. WHERE POSTS ARE SET IN CORED HOLES USING EPOXY GROUT THE TOP SURFACE OF GROUT SHALL BE BEVELED AROUND POST AND TOP EDGE OF GROUT SHALL BE 3/8" ABOVE CONCRETE SURFACE AS A 3/8" FILLET.

TYPICAL ALUMINUM STAIR & HANDRAIL ELEVATION

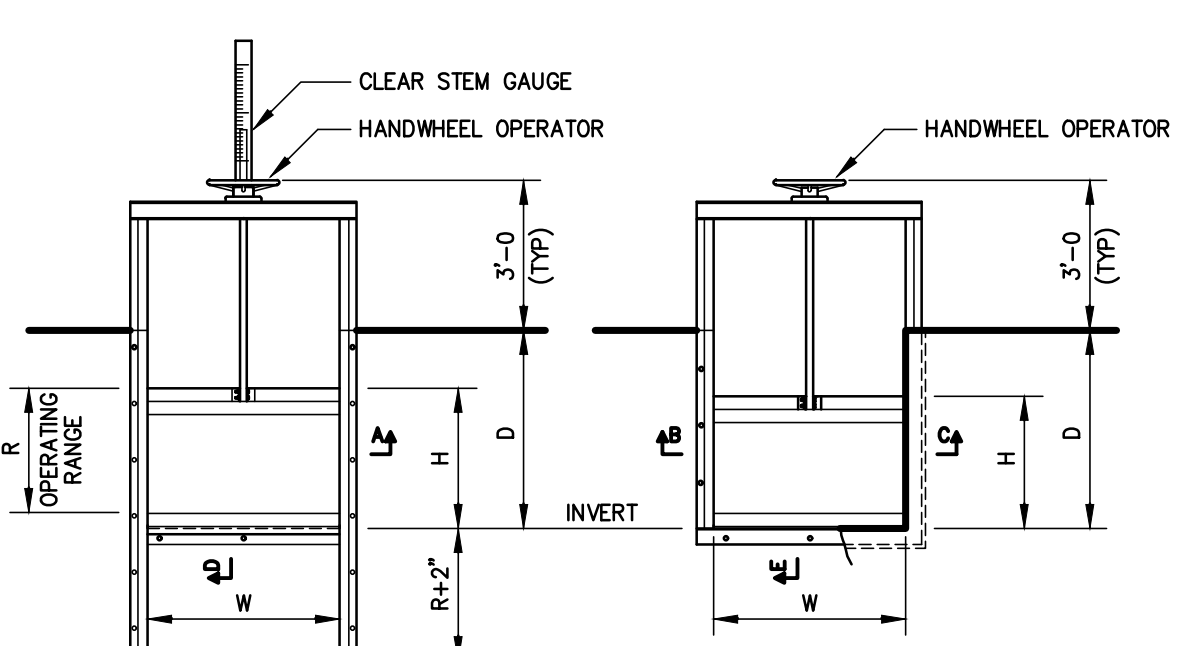


SECTION - GRATING/PLANK SUPPORT



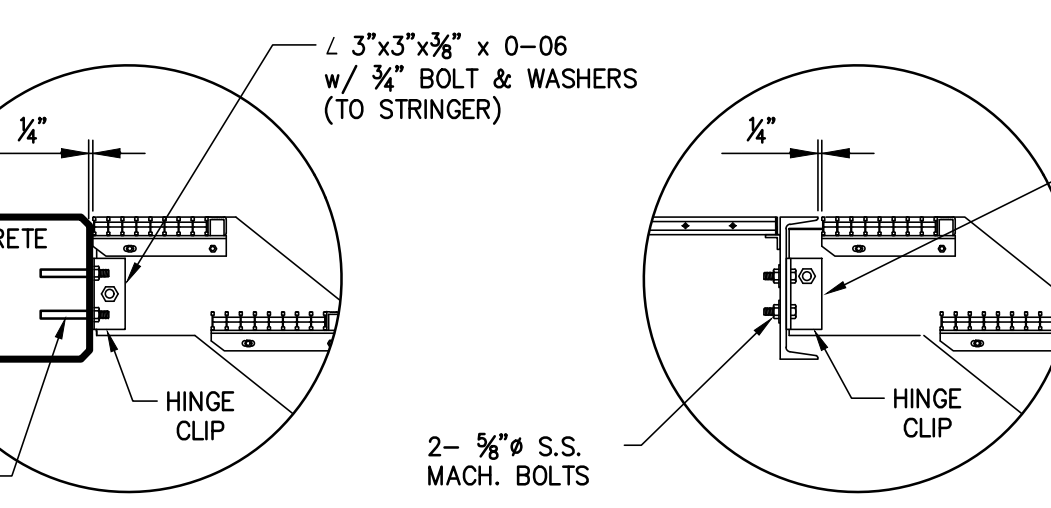
ELEVATION

TYPICAL WEIR PLATE DETAIL



WEIR GATE ELEVATION

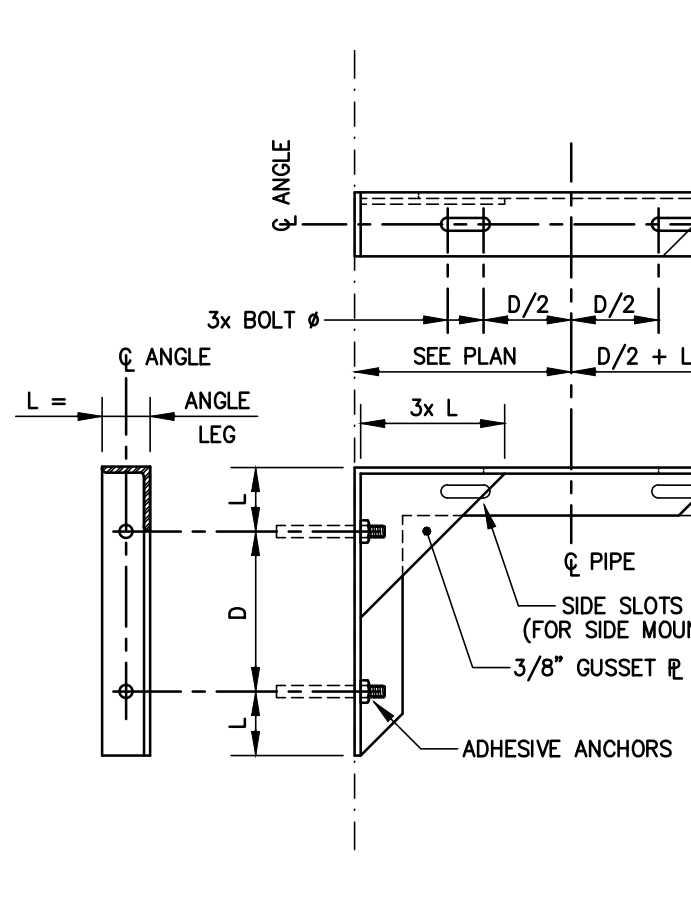
SLIDE GATE ELEVATION



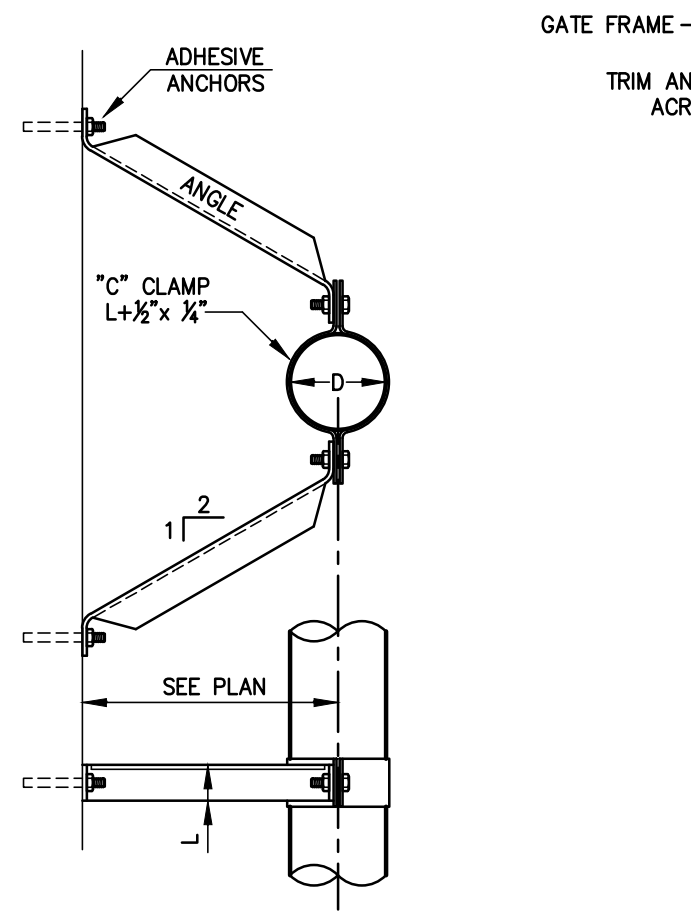
DETAIL "Tc" (CONC.)

DETAIL "Tm" (METAL)

TYPICAL ALUMINUM STAIR CONNECTIONS



TYPE "A"



TYPE "B"

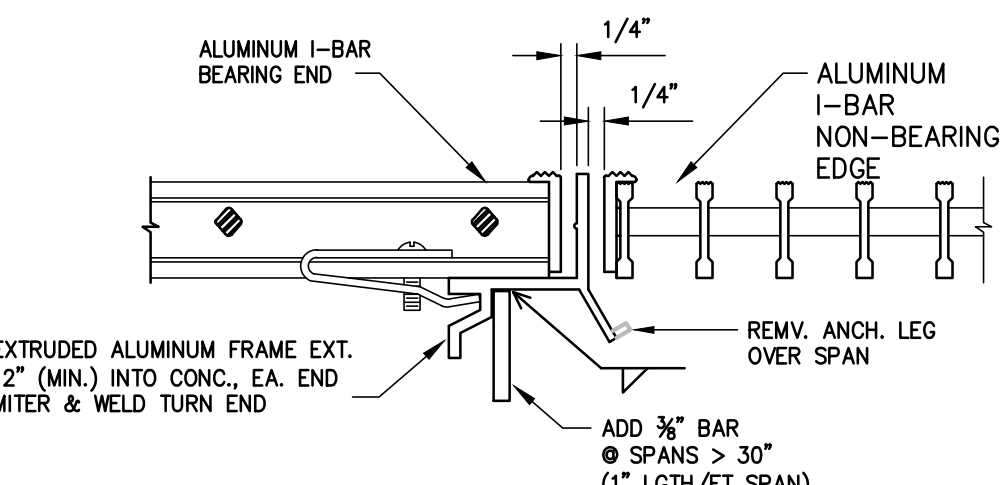
- NOTES:
1. ANGLE AND CLAMP MATERIAL SHALL BE 316 S.S. FOR EXTERIOR AND SUBMERGED WATER SERVICE. MATERIAL SHALL BE CARBON STEEL, GALV. AND PAINTED PER SPECIFICATIONS, FOR OTHER SERVICES.
 2. BOLTS AND ANCHORS SHALL BE A-307, GALV., EXCEPT FOR EXPOSED CONDITIONS AND WATER SERVICE SHALL BE 316 S.S.

PIPE SUPPORT SCHEDULE			
PIPE, Ø "D"	ANGLE SIZE	BOLT SIZE	
≤ 6"	2 1/2" x 2 1/2" x 3/8"	1/2"	
8" - 10"	3" x 3" x 3/8"	1/2"	
12" - 16"	4" x 4" x 3/8"	5/8"	
≥ 16"	SEE PLAN		

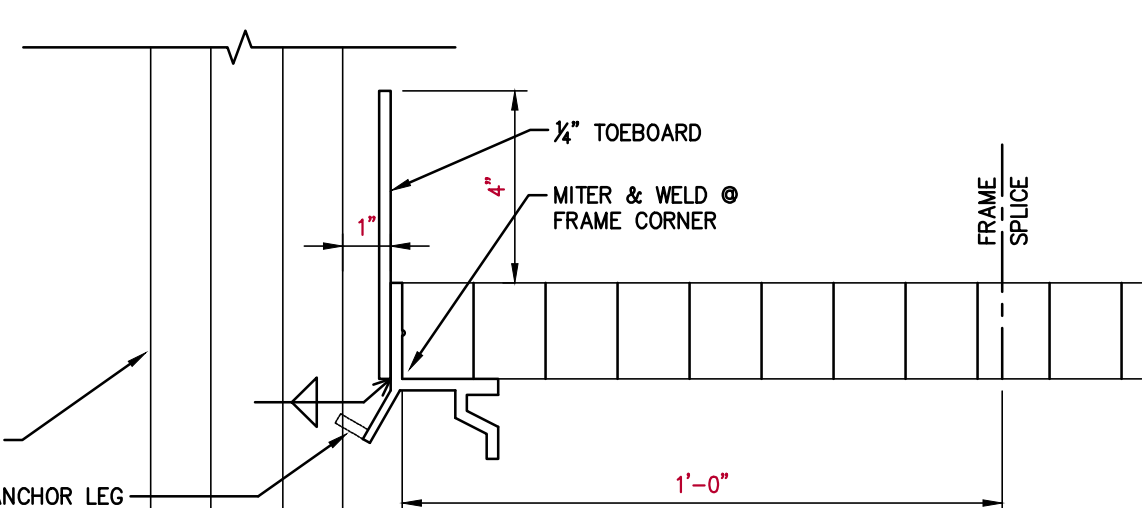
TYPICAL PIPE SUPPORT DETAILS

GENERAL MISCELLANEOUS METALS NOTES

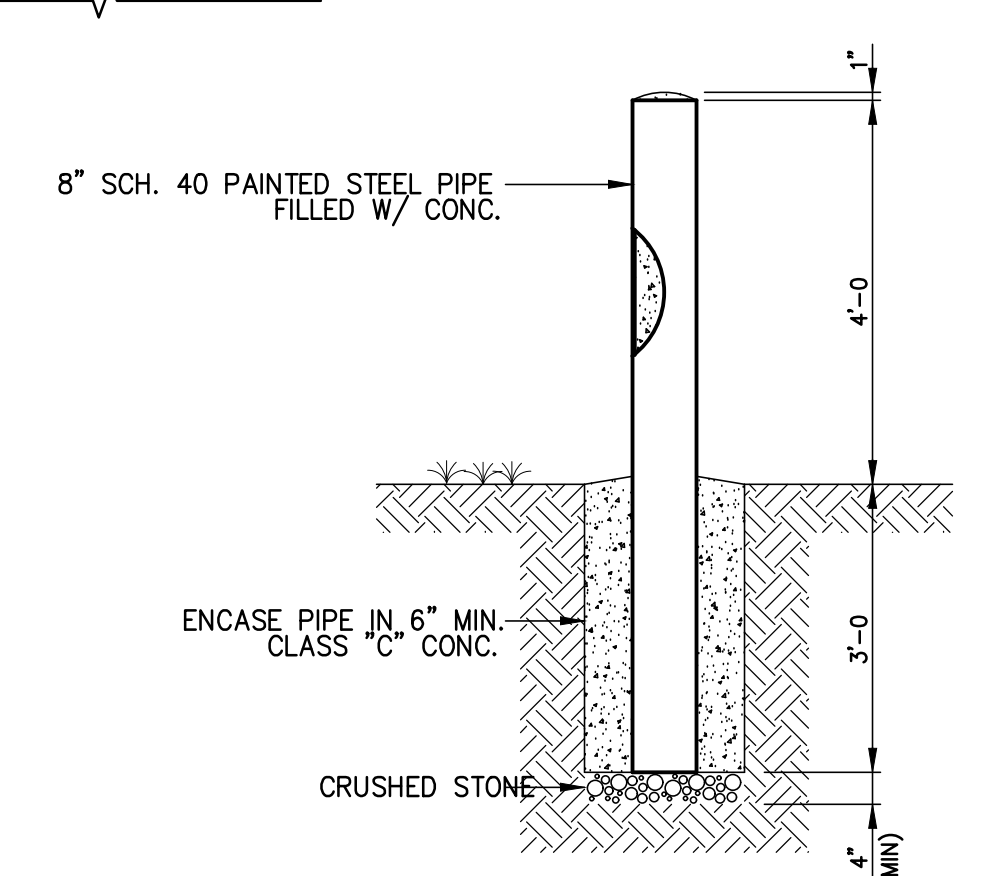
4. STRUCTURAL STEEL -
 - (a) CODES AND STANDARDS : A.I.S.C. MANUAL OF STEEL CONSTRUCTION, LATEST EDITION, AND CODES AND STANDARDS CITED THEREIN.
 - (b) STEEL STRENGTH: ASTM A-36.
 - (c) CONNECTIONS :
 - 1. CONNECTIONS SHALL BE DESIGNED TO DEVELOPE THE STRENGTH OF THE MEMBER CONNECTED AND AS DETAILED ON THE DRAWINGS
 - 2. SHOP CONNECTIONS MAY BE BOLTED OR WELDED, AS APPROVED BY THE ENGINEER.
 - 3. FIELD CONNECTIONS MAY BE BOLTED OR WELDED, AS APPROVED BY THE ENGINEER.
 - 4. BOLT STRENGTH SHALL BE MINIMUM ASTM A-325.
5. ALUMINUM -
 - (a) CODES AND STANDARDS : ALUMINUM STANDARDS AND DATA, BY "THE ALUMINUM ASSOCIATION", LATEST EDITION.
 - (b) ALUMINUM ALLOYS : SEE SPECIFICATIONS
 - (c) CONNECTIONS :
 - 1. CONNECTIONS SHALL BE DESIGNED TO DEVELOPE THE STRENGTH OF THE MEMBER CONNECTED AND AS DETAILED ON THE DRAWINGS
 - 2. SHOP CONNECTIONS MAY BE BOLTED OR WELDED, AS APPROVED BY THE ENGINEER.
 - 3. ALL FIELD CONNECTIONS SHALL BE BOLTED.
 - 4. ALL HARDWARE SHALL BE TYPE 302 OR TYPE 304 S.S..



TYP. GRATING/PLANK SUPPORT OVER SPANS



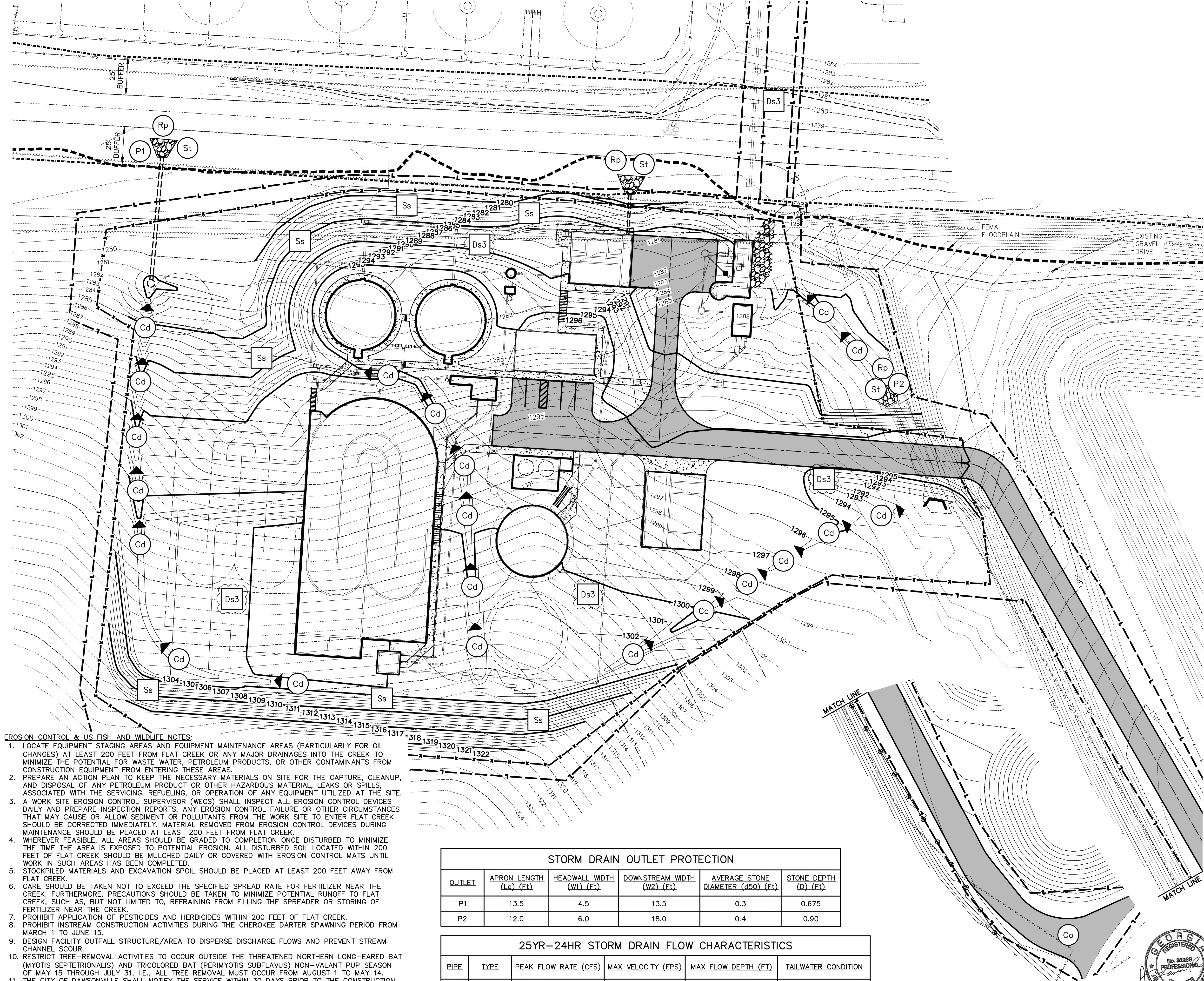
TYP. GRATING SUPPORT @ GATES



BOLLARD DETAIL

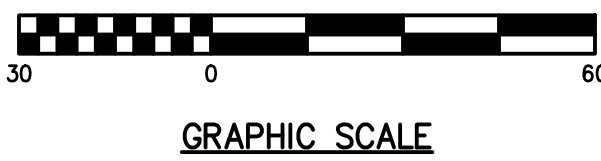
REVISIONS		CITY OF DAWSONVILLE, GEORGIA	
04/11/25		SEWERAGE SYSTEM IMPROVEMENTS	
05/02/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
05/12/25			
DRAWN		MISCELLANEOUS METALS NOTES & DETAILS	
JDC	GBT	SCALE: N.T.S.	DATE: JANUARY 2024
TURNIPSEED ENGINEERS		ATLANTA, AUGUSTA, AUSTIN, ST. SIMONS ISLAND	
SHEET 91		OF 103	

P:\Dawsonville\182181 Flat Creek WPCP\Drawings\182181 ESPC Plans.dwg



BEST MANAGEMENT PRACTICE (BMP) LEGEND				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS, AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd2	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS, AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd3	TEMPORARY SEDIMENT BASIN			A BASIN CREATED BY EXCAVATION OR THE CONSTRUCTION OF A DAM FOR SEDIMENT COLLECTION.
Cd	CHECKDAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
St	STORM DRAIN OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIP RAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUN-OFF.
Rp	RIP-RAP			LOOSE ROCK SIMILAR DURABLE MATERIAL INSTALLED ON SLOPES FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.
Ch	CHANNEL STABILIZATION			IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.
Di	DIVERSION			AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.
Du	DUST CONTROL ON DISTURBED AREAS			CONTROLLING SURFACE AND AIR MOVEMENT DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.
Ss	SLOPE STABILIZATION			THE INSTALLATION OF A PROTECTIVE (BLANKET) OR SOIL STABILIZATION MAT ON A PREPARED PLANTING AREA OF A STEEP SLOPE, CHANNEL, OR SHORELINE.
Ds1	DISTURBED AREA STABILIZATION MULCHING			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH PLANT RESIDUES ON DISTURBED AREAS.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. VEGETATION)			ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION PERMANENT			ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)			A PERMANENT VEGETATIVE COVER USING SOD ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Sk	FLOATING SURFACE SKIMMER			A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT POND, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.

LEGEND	
LIMITS OF DISTURBANCE	
FEMA FLOODPLAIN	



REVISIONS		CITY OF DAWSONVILLE, GEORGIA	
04/11/25		SEWERAGE SYSTEM IMPROVEMENTS	
05/12/25		FLAT CREEK WATER POLLUTION CONTROL PLANT	
		FINAL	
		EROSION CONTROL PLAN	
DRAWN	CHECKED		
JDC	GBT	SCALE: 1"=30'	DATE: JANUARY 2024
		ATLANTA AUGUSTA Aiken ST. SIMONS ISLAND	SHEET 99 OF 103

GSWCC CERTIFICATION NO. 22351