

CEDAR KEY WATER AND SEWER DISTRICT
INVITATION TO BID NO: 2024-02
SANITARY SEWER LIFT STATION REHABILITATION
ADDENDUM NO. 1

April 22, 2024

The following changes have been made to the plans & specifications for the above project:

A. CONTRACT DOCUMENTS/SPECIFICATIONS

ITEM	DOCUMENT	CHANGE
1.	Specifications	Added attachment A (FDOT Utility Permit) to specifications.
2.	Bid Tab – Basis of Bid	Update Line item 2.11 to show (3) 4” plug valves instead of (2) 4” plug valves.
3.	32 31 13 – Chain Link Fence and Gates	Part 2 – Products was updated accordingly.

B. CONSTRUCTION PLANS

SHEET NO.	CHANGE
C-103	Updated drawing to include three (3) Removable Traffic Rated Bollard. The proposed fence was removed and the proposed gravel for the site was updated accordingly. The Contractor is required to install an emergency contact sign at the Lift Station 6 site.
C-104	Updated drawing to include a Demolition Hatch for the removal of the Existing Air Vent
C-105	Updated drawing to include 4” SS Air Vent to Lift Station 7
C-900	Updated drawing to include an Emergency Contact sign that shall be placed at each lift station site. The Contractor is required to install the emergency contact sign and support pole at the Lift Station 6 site.
C-902	Updated drawing to include Removable Locking Bollards Detail
M-901	Updated drawing to include the correct pump HP requirements and updated the Emergency Shutoff Level
M-902	Updated drawing to include 4” SS Air Vent to the Lift Station 7 Detail and Updated the Emergency Shutoff Level
M-903	Updated drawing to include a 4” SS J-Vent Detail
E sheets	All electrical drawing sheets associated with the Sanitary Sewer Lift Station Rehabilitation project are provided with Addendum #1.
S sheets	All structural drawing sheets associated with the Sanitary Sewer Lift Station Rehabilitation project are provided with Addendum #1.

C. QUESTIONS/COMMENTS

- Q. Will the pre bid sign in sheet and agenda be provided to the contractor?
A. Attached to Addendum 1 is the pre bid sign in sheet and agenda.
- Q. Where can I get a copy of the Plan Holders List for the Cedar Key Ls Rehab project?
A. Attached to Addendum 1 is a copy of the Plan Holders list.
- Q. Please confirm the load rating of the valve box hatch covers for LS1 and LS7 as H-20 for occasional traffic or H-20 for Off Street Truck Traffic.
A. The hatch for Lift Station 1 shall be 00821624C01 Access Hatch by EJ Group, Inc or Approved Equal. An Approved Equal must meet or exceed the minimum standards of the 00821624C01 Access Hatch by EJ Group, Inc. The hatch for Lift Station 7 and the Lift Stat 7 valve box shall be F1H Access Door by Halliday Products or Approved Equal. An Approved Equal must meet or exceed the minimum standards of the F1H Access Door by Halliday Products.
- Q. What is the Engineer's Estimate / Budget for the project?
A. The Engineer's Estimate / Budget for the project is \$1,975,000.
- Q. The plans provided are just the Civil Plans. Will you be providing the Structural and Electrical Plans?
A. All structural and electrical drawing sheets associated with the Sanitary Sewer Lift Station Rehabilitation project are provided with Addendum #1. All addendum 1 sheets were updated to Demand star also.
- Q. Do you need the bid submission bound in a book or will a binder clip in the corner suffice?
A. Binder clipped documents are okay as long as the documents are in orderly fashion.
- Q. Section 33 32 13 of the specs (Submersible Centrifugal Pumps) calls for a 7 year manufacturer's warranty on the pumps. A 7-year warranty is not typical. Is this required?
A. A 7-year warranty is required.
- Q. Do the new sidewalks, and electrical panel foundations need to be made of 5,500 PSI concrete? Would a lower psi be ok?
A. Per Sheet S-100 Structure notes, the electrical panel foundation concrete minimum 28-day compressive strength is 4,000 psi. Sidewalk concrete is non-structural with a minimum 28-day compressive strength of 2,500 psi per the governing specifications.
- Q. Has a geotechnical report been done?
A. A geotechnical report was not conducted for this project.
- Q. At lift station #1, the new plans call for (3)2" conduits from the panel. There are currently (2) existing conduits. Will a third conduit need to be installed under the road between the wet well and the panel?
A. Yes, the third conduit is needed for the cables for the float switches. The design is one conduit for each of the motors and one for the float switches (three conduits total).

- Q. Are we able to have new wet well top slabs precast, in lieu of poured in place?
- A. The wet well top slabs may be pre-cast in lieu of cast in place. Contractor shall verify dimensions, clearances, and mechanical opening and penetrations prior to construction. Contractor shall submit fully detailed shop drawings signed and sealed by a professional engineer licensed in the State of Florida for precast wet well top slabs for approval prior to fabrication.
- Q. At line item 2.11, the bid sheet calls for (2)4” Plug Valves. The plans show (3)4” Plug Valves.
- A. The bid sheet has been updated to show (3) 4” Plug Valves.
- Q. The plans show a new fence around Lift Station #6, however there is not a line item for new fence at Lift Station #6 on the bid sheet.
- A. The updated Lift Station #6 drawings were updated accordingly. The proposed Lift Station #6 site fencing was replaced with traffic rated removable bollards. The bid tab was updated accordingly to reflect these changes.
- Q. Can we schedule a site visit of the Lift Station sites with the Cedar Key Water and Sewer District staff?
- A. All Contractors interested in visiting the lift station sites shall contract the “District” directly. The last day for contractors to visit the lift station sites will be C.O.B. Friday, April 26th.
- Q. Are the support posts at the electrical panels supposed to be aluminum or steel?
- A. The electrical panel support posts are to be Grade 6061-T6 Aluminum meeting the requirements of ASTM B429. This information is detailed on Sheet S-100 Structure Notes.
- Q. What shape are the support posts at the electrical panels supposed to be? Round, square, or I-Beams?
- A. The electrical panel support posts are 3.5” O.D. aluminum posts with minimum 3/16” wall thickness. Round posts may be submitted for S 3x5.7 I-Beams.
- Q. What is the thickness of the metal for the support posts at the electrical panels.
- A. The Electrical support post shall have a minimum wall thickness of 3/16”.
- Q. Could you please provide a list of all approved lining systems for the wastewater structures?
- A. The wastewater lining system shall meet the requirements of the attached Specification for Total Lining System. Alternative lining systems other than detailed in the Plans may be submitted for review and approval prior to construction.
- Q. Can you please provide clarification on the new fences? According to our fence sub, the 3-1/2”x5” mesh cannot be ordered. Also, the fittings for the 2.375” top rail cannot be ordered.
- A. Please review Specification 32 31 13 – Chain Link Fence and Gates, Part 2, as the details for the fence mesh and top rail were updated accordingly.
- Q. Can you please confirm that there is an existing valve near lift station #9?
- A. An existing inserta valve is located on the north side of the bridge near the Gulf Boulevard & Whiddon Avenue intersection.
- Q. Will we need new certified MOT Plans for the lift station sites? Or will the FDOT Indexes already included in the plans be sufficient?

- A. At a minimum, for all work performed in FDOT (Lift Station #6 site), County (Lift Station #7 site), or City Right-of-Ways (Lift Station #1, #9, and #10 site), the contractor shall comply with the MOT plans provided in the FDOT Indexes and the construction plans. For the Lift Station #7 site (located in Levy County ROW), the County will mandate the contractor to always provide a flagger during construction due to the proximity of the lift station site to the school.

- Q. Please confirm if any or all of the pump control panels will require a remote alert system that can send a text to a programmed number in the event of an alarm. This would add approximately \$2,800 cost to a station for the equipment. The City would be required to maintain a SIM card account for each station, estimated at \$10-20 per month per station, in order to accommodate the communication.
- A. The pump control panels will require remote alert systems that can send text to a programmed number in the event of an alarm. The bid tab and basis of bid is updated accordingly to include the cost of the remote alert system.

- Q. Please confirm the working hours for this project.
- A. That construction activities shall be conducted from seven o'clock (7:00) am to seven o'clock (7:00) pm, Monday through Saturday, excluding holidays. Any deviation from these hours requires prior approval from the City building official. The City building official shall be given two working days notice, in writing, requesting deviation from the normal working hours.

The CONTRACTOR shall acknowledge the receipt of this ADDENDUM by signing below, including a copy with the BID, and acknowledge where indicated.

CONTRACTOR _____

BY _____

DATE _____

CEDAR KEY WATER & SEWER DISTRICT OPTIONAL PRE-BID SIGN-IN SHEET



**Cedar Key
Water & Sewer District**

PROJECT NAME: SANITARY SEWER LIFT STATION REHABILITATION

TIME AND DATE: 3:00 PM, April 10, 2024

LOCATION: Cedar Key Water & Sewer District Building – 510 3rd Street, Cedar Key, FL 32625

ITB NO. 2024-02

NAME

COMPANY

TEL NO.

E-MAIL

TL
Tyler Lee

Baskerville-Donovan, Inc.

850-438-9661

tlee@baskervilledonovan.com

Jake Wiesner

Baskerville-Donovan, Inc.

850-438-9661

kwiesner@baskervilledonovan.com

John Rittenhouse

Cedar Key Water & Sewer

352-543-5285

rittenhousejohn@msn.com

James McCain

Cedar Key Water & Sewer

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Alicia Johns

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alicia@ckwater.org

STACEY WORTH

WORTH CONSTR. &

386-364-

worth@windstream.net

JAMES WORTH

DEVELOPMENT, INC 9330

ADAM BRANG

C&B CIVIL CONST. INC

386-454-5359

info@cbcivil.net

DOUG HENKE

SOUTHEASTERN PUMP

813-495-6582

DHENKE@SEPUMP.COM

Cody Jackson

Clearwater Solutions

352-425-8983

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GABE DOTY

Cedar Key Water & Sewer

352-949-0602

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Seth Sarnow

SGS Construction

352 745 6950

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Jim Worrich

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813 695 6183

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BRAD YOUNG

CUSTOM PUMP

813 613 0346

B.young@custompump.com

Brett G

GAR

386 674 4638

Brett@garindustrial.com



Cedar Key
Water & Sewer District

OPTIONAL PRE-BID MEETING AGENDA
CEDAR KEY WATER AND SEWER DISTRICT (THE "DISTRICT")
SANITARY SEWER LIFT STATION REHABILITATION

INVITATION TO BID (ITB) NO. 2024-02

3:00 p.m. (Eastern Time) April 10, 2024

510 3rd Street, Cedar Key, FL 32625



1. **Sign-in Sheet being distributed. Complete all information legibly.**
2. **Introduction of:**

Jeff Jones, P.E., Senior Project Manager, Baskerville-Donovan, Inc.
Tyler Lee, P.E., Project Engineer, Baskerville-Donovan, Inc.
Jake Wiesner, E.I., Project Engineer, Baskerville-Donovan, Inc.
John Rittenhouse, General Manager, Cedar Key Water and Sewer
James McCain, Cedar Key Water and Sewer
Gabe Doty, Superintendent, Cedar Key Water and Sewer
Alicia Jones, Billing Clerk, Cedar Key Water and Sewer
3. **Scope of Work** – This project consists of rehabilitating five (5) existing lift stations. The lift station rehabilitation includes the demolition of the existing lift station mechanical & electrical components, the installation of new pumps, new discharge piping, valves, and fittings, lining the interior of the existing wet well structure, a new wet well lid and concrete pad, and electrical modifications to make the lift station a complete and operable system.
4. **Questions/Comments**
 - a. All questions are to be submitted by email. All bid questions are due to the "District" by **April 17, 2024**.
 - b. All questions should be in writing and directed to **Alicia Johns (alicia@ckwater.org)**.
 - c. All questions will be answered per addendum. Questions will be answered by the "District" by **April 22, 2024**.
 - d. Except for written questions submitted as provided above, prospective Bidders shall not have any communication with **any** member of the District Board of Commissioners, District employees, nor the Engineer.
5. **Funding** - Funding for the project is made possible through the following agencies:
 - a. Florida Department of Environmental Protection's (FDEP) Grant Program.
 - i. This is a grant-funded project with a total funding amount available of **\$1,975,000**.
 - b. As such no work may begin until the Cedar Key Water and Sewer District issues the notice to proceed, and all change orders must be pre-approved by the "District" and funding agencies.
6. **Bidding** –All bids are due to the "District" by **April 30, 2024, 3:00 p.m. Eastern Standard Time (EST)**. Late bids will not be accepted after **3:00 p.m. EST on April 30, 2024**, unless otherwise changed through the issuance of an addendum to this ITB.
 - a. Bid is based on items provided in the Bid Form
 - b. Bids good for **90 days**.
 - c. A complete Bid package must include all items stated in the **Instructions to Bidders** (page 3-4 of the ITB) and **Section 6.0 of the ITB**. A checklist of required documents that must be included in the Bid package is provided for convenience as **Appendix A** to the ITB.
7. **Contract Time/Schedule**
 - a. Substantial Completion - **235 calendar days from NTP**.
 - b. Final Completion - **265 additional days after NTP**.
 - c. Work Hours – ~~7:00 AM to 6:00 PM~~ **Monday – Saturday 7:00 AM to 7:00PM**

8. **Construction Agreement & Special Conditions**

- a. Contractor responsibility to review **Appendix F – Construction Agreement** and **Specification 01 32 33 – Special Conditions**.

9. **Daily Report, As-Builts and Meetings**

- a. The Contractor shall complete and submit to the Engineer on a weekly basis a daily log of the Contractor's work for the preceding week in a format approved by the Engineer and the "District".
- b. As a prerequisite to any payments, the Contractor shall make available to the Design Professional all "as-built" information pertinent to the design drawings each month prior to his submission of a monthly application for payment.
- c. Review **Appendix F – Construction Agreement, Section 13 – Daily Report, As-Builts and Meetings** of the **ITB** for the additional information required to be submitted with the Contractor's daily log and As-Built.

10. **Disposal of Construction Debris**

- a. Contractor to dispose of material daily. Trash should be removed from the work site daily or provided with bear-proof containers.
- b. The Contractor shall remove all debris, and waste from the site and dispose of in accordance with all applicable Federal, State, and Local regulations.
- c. Work on private property is not allowed unless Contractor has obtained written permission from the property owner.
- d. Review **Appendix F – Construction Agreement, Section 21 – Cleanup and Protections** of the **ITB** for additional information.

11. **Permit Conditions** – Work shall be complete in conformance with Florida Department of Environmental Protection (FDEP), Florida Department of Transportation (FDOT), and the "District" standards.

12. **Liquidated Damages**

- a. Substantial Completion – **\$1,000 per day after Substantial Completion date.**
- b. Final Completion - **\$500 per day after Final Completion date.**

13. **Bonding**

- a. Bid – **5%**
- b. Performance – **100%**
- c. Payment – **100%**

14. **Warranty – One (1) year warranty** from the final completion date.

15. **Award of Contract** - Based upon lowest responsive bid and final approval by the "District".

- a. Contract Award - Anticipated award of contract date is set for **May 2024**.
- b. Notice of Award and Notice to Proceed – after approval by the "District". The anticipated date is set for **May 2024**.

16. **Site Visit** – Optional lift station site visit to occur after the pre-bid meeting.

Member Name Cedar Key Water and Sewer District
Bid Number ITB-2024-01-0-2024/JR
Bid Name SANITARY SEWER LIFT STATION REHABILITATION

29 Planholder(s) found

SupplierName	FullName	Email	Address1	Address2	City	State	PostalCode	Phone	DeclaredAttributes	CertifiedPrograms
CWS	Ray McCloskey	ray.mccloskey@clearwatersol.com	3780 NE 40th Place		Ocala	FL	34479	3523906555		
Dodge Data	Bonny Mangold	dodge_docs@construction.com	4300 Beltway Place, Ste 150		Arlington	TX	76018	4133767032		
FJ Nugent & Associates	Fred Nugent	fred@nugentco.com	P.o. Box 521925		Longwood	FL	32752-1925	4079361139		
GAR Industrial	brett garmon	brett@garindustrial.com	431 COUNTY ROAD 415		New Smyrna Beach	FL	32168		Small Business	
Hinterland Group Inc.	Daniel Duke, III	info@hinterlandgroup.com	2051 W Blue Heron Blvd		Riviera Beach	FL	33404	5616403503		
ICON Supply, Inc. d/b/a ICON Technologies	Mark Tempest	mtempest@icon-tech.com	12956 N DALE MABRY HWY		Tampa	FL	33618	8139362030	Hispanic Owned, Woman Owned	
Intercounty Engineering, Inc	Shelley McDougle	smcdougle@intercountyengineering.com	1030 4 Court SW		Vero Beach	FL	32962	7726338242	Small Business	
JCA Surety Group	Jorge Bracamonte	jb@jcasurety.com	1602 Georgia Blvd		Winter Park	FL	32803	4075754361	Hispanic Owned	
M J Construction Company Anchor Construction	Nick Kokkinos	nickkokkinos@mjconstruction.net	809 South Safford Avenue		Tarpon Springs	FL	34689	7279386478		
Orvia, Inc. - Content Department	Content Source Management	sourcingsupport@deltek.com	509 Olive Way, Suite 400		Seattle	WA	98101	2063739500		
Pasco Pipe Supply, Inc.	Matt Kittle	mkittle@pasco pipesupply.com	14700 US-19		Hudson	FL	34667	7278634339		
PCL Construction	Estimating Team	lplante@pcl.com	1711 W Greentree Dr.	Ste 201	Tempe	AZ	85284	8134251440		
Pospiech Contracting, Inc.	Daria Croft	dcroft@pospiechcontracting.com	201 South Apopka Avenue		Inverness	FL	34452			
SOUTHEASTERN PUMP	Julia Brodeur	tbrodeur@seumpo.com	1354 SW 12th Ave		Pompano Beach	FL	33069	9547818400	Small Business	
Xylem Inc.	Frank Jones	frank.jones@xylem.com	455 Harvest Time Dr		Sanford	FL	32771	4075534205		
RTD Construction	Jennifer Jordan	jj@RTDconstruction.com	38038 North Ave		Zephyrhills	FL	33542	8137839119		
W.W. Gay Mechanical Contractor	Chad Arban	carban@wwgmc.com	524 Stockton Street		Jacksonville	FL	32204	3522642615		
SGS Contracting Services	Seth Simmons	seth@sgscsi.com	18420 High Springs Main St		High Springs	FL	32643	3527456950		
Sawcross, Inc.	Danny Jenkins	dannyj@sawcross.com	10970 New Berlin Road		Jacksonville	FL	32226	9047517500		
T B Landmark Construction, Inc.	Ashton Thigpen	ashtont@tblandmark.com	11220 New Berlin Road		Jacksonville	FL	32226	9047511016		
Razorback LLC	Robbie Hilger	robbie@razorbackllc.com	177 Ancote Road		Tarpon Springs	FL	34689			
Worth Construction & Development	Jimmy Worth	worth@windstream.net	4815 US-129		Live Oak	FL	32060	3863649330		
C&B Civil Construction Inc.	Adam Brang	info@cbcivil.net			High Springs	FL	32643	3864545359		
Southeastern Pump	Doua Henke	dhenke@sepump.com	3502 Riva Blvd A		Tampa	FL	33619	8134956582		
Custom Pump Control	Jim Wornich	j.wornich@custompump.com	318 N 56th Street		Tampa	FL	33610	8136956183		
Custom Pump Control	Brad Young	b.young@custompumps.com	318 N 56th Street		Tampa	FL	33610	8136113046		
Barney's Pump	Ryan Grymko	rgrymko@barneyspumps.com	2965 Barney's Pump Place		Lakeland	FL	33812	8636658500		
Blake Utility Construction, LLC	Peggy Blake	peg@blakeutility.com	10865 East HWY 40		Silver Springs	FL	34488	3526250269		
Xylem Dewatering, Inc. dba Godwin Pumps of America	Robin Helmandollar	robin.helmandollar@xyleminc.com	1115 6th Ave		Deland	FL	32724	8564673636		

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
1	General				
1.01	General Conditions (Max 5% of Bid)	1	LS		
1.02	Stormwater Pollution Prevention Plan	1	LS		
1.03	Existing Utility Verification	1	LS		
1.04	Lift Station Site - Pipe Pressure Testing	1	LS		
1.05	Lift Station Site - Concrete Slab Testing	1	LS		
1.06	Closeout Documentation (Max 0.5% of Bid)	1	LS		
SUB-TOTAL GENERAL					
2	Lift Station #1 Site Rehabilitation				
2.01	Submersible Centrifugal Pumps	2	EA		
2.02	Submersible Pump Base Plate	2	EA		
2.03	4" Hardened Cast Iron Discharge Elbows	2	EA		
2.04	4" HDPE DR11 Discharge Piping	22	LF		
2.05	4" HDPE DR11 90° Fitting	2	EA		
2.06	4" DIPS Flange HDPE/316 Stainless Steel Adapter	2	EA		
2.07	4" 316 Stainless Steel Piping	6	LF		
2.08	4" DIP	2	LF		
2.09	4"x6" MJ Increaser	1	EA		
2.10	4" FL Check Valve	2	EA		
2.11	4" FL Plug Valve	3	EA		
2.12	4" Stainless Steel FL 90° Fitting	3	EA		
2.13	4" Stainless Steel FL Cross Fitting	1	EA		
2.14	4" Aluminum Male Kamlock w/ Female Dust Cap	1	EA		
2.15	3" 316 Stainless Steel Pipe Support Brace w/ U-Bolt	1	LS		
2.16	2" SCH 40 316 Stainless Steel Guide Rails & Supports	1	LS		
2.17	316 Stainless Steel Float/Cable Holder	1	LS		
2.18	316 Stainless Steel Lifting Chains w/ Hammerlocks & Masterlinks	1	LS		
2.19	Lift Station Control Floats	1	LS		
2.20	ARV	1	EA		
2.21	2" 316 Stainless Steel Ball Valve	1	EA		
2.22	3/4" 316 Stainless Steel Ball Valve	2	EA		
2.23	Diaphragm Pressure Gauges	2	EA		
2.24	Connect to the Existing Collection System	1	EA		
2.25	Control Panel (NEMA 6P Enclosure)	1	LS		
2.26	Service Installation	1	LS		
2.27	Conduits to Wet Well	1	LS		
2.28	Install Motor Leads & Float Switches	1	LS		
2.29	Startup and Testing	1	LS		
2.30	Maintenance of Traffic (MOT) Plan	1	LS		
2.31	Bypass Pumping Plan	1	LS		
2.32	Roadway Restoration	1	LS		
2.33	Site Restoration	1	LS		
2.34	Erosion Control	1	LS		
2.35	Access Hatch Assembly	1	EA		
2.36	Existing Lift Station Pump, Piping, and Valves Demolition	1	LS		
2.37	Existing Concrete Demolition	1	LS		
2.38	Existing Electrical Demolition	1	LS		
2.39	Remote Telemetry Alert System	1	LS		
SUB-TOTAL LIFT STATION #1 SITE REHABILITATION					
3	Lift Station #6 Site Rehabilitation				
3.01	Submersible Centrifugal Pumps	2	EA		
3.02	Submersible Pump Base Plate	2	EA		

3.03	4" Hardened Cast Iron Discharge Elbows	2	EA		
3.04	4"x6" 316 Stainless Steel Eccentric In increaser	2	EA		
3.05	6" HDPE DR11 Discharge Piping	28	LF		
3.06	6" HDPE DR11 Fused Offset Fitting	2	EA		
3.07	6" DIPS Flange HDPE/316 Stainless Steel Adapter	2	EA		
3.08	6" 316 Stainless Steel Piping	10	LF		
3.09	6" PVC - DR18	15	LF		
3.10	6" FL Check Valve	2	EA		
3.11	6" FL Plug Valve	3	EA		
3.12	6" Stainless Steel FL 90° LR Fitting	3	EA		
3.13	6" Stainless Steel FL 90° Fitting	1	EA		
3.14	6" Stainless Steel FL Tee Fitting	2	EA		
3.15	6" Ductile Iron 90° MJ Fitting	1	EA		
3.16	6" Ductile Iron 45° MJ Fitting	1	EA		
3.17	6" Aluminum Male Kamlock w/ Female Dust Cap	1	EA		
3.18	3" 316 Stainless Steel Pipe Support Brace w/ U-Bolt	1	LS		
3.19	2" SCH 40 316 Stainless Steel Guide Rails & Supports	1	LS		
3.20	316 Stainless Steel Float/Cable Holder	1	LS		
3.21	6" 316 Stainless Steel Air Vent	1	LS		
3.22	316 Stainless Steel Lifting Chains w/ Hammerlocks & Masterlinks	1	LS		
3.23	Lift Station Control Floats	1	LS		
3.24	ARV	2	EA		
3.25	2" SCH 80 CPVC Ball Valve	2	EA		
3.26	2" SCH 80 CPVC Piping and Fittings	1	LS		
3.27	2" 316 Stainless Steel Ball Valve	2	EA		
3.28	3/4" 316 Stainless Steel Ball Valve	2	EA		
3.29	Diaphragm Pressure Gauges	2	EA		
3.30	316 Stainless Steel Pipe Stands	3	EA		
3.31	Geotextile Fabric	92	SF		
3.32	6" Granite #57 Stone	3	CY		
3.33	Removable Lockable Traffic Rated Bollard	3	EA		
3.34	Connect to the Existing Collection System	1	EA		
3.35	Control Panel (NEMA 6P Enclosure)	1	LS		
3.36	Service Installation	1	LS		
3.37	Conduits to Wet Well	1	LS		
3.38	Install Motor Leads & Float Switches	1	LS		
3.39	Startup and Testing	1	LS		
3.40	Maintenance of Traffic (MOT) Plan	1	LS		
3.41	Bypass Pumping Plan	1	LS		
3.42	Site Restoration	1	LS		
3.43	Existing Water Meter Relocation	1	LS		
3.44	Existing Traffic Sign Relocation	2	EA		
3.45	Erosion Control	1	LS		
3.46	Access Hatch Assembly	1	EA		
3.47	Existing Lift Station Pump, Piping, and Valves Demolition	1	LS		
3.48	Existing Concrete Demolition	1	LS		
3.49	Existing Electrical Demolition	1	LS		
3.50	Remote Telemetry Alert System	1	LS		
SUB-TOTAL LIFT STATION #6 SITE REHABILITATION					
4	Lift Station #7 Site Rehabilitation				
4.01	Submersible Centrifugal Pumps	2	EA		
4.02	Submersible Pump Base Plate	2	EA		
4.03	4" Hardened Cast Iron Discharge Elbows	2	EA		
4.04	4" HDPE DR11 Discharge Piping	12	LF		
4.05	4" DIPS Flange HDPE/316 Stainless Steel Adapter	2	EA		

4.06	4" 316 Stainless Steel Piping	6	LF		
4.07	6" DIP	10	LF		
4.08	6" MJ Plug	1	EA		
4.09	4" FL Check Valve	2	EA		
4.10	4" FL Plug Valve	3	EA		
4.11	4" Stainless Steel FL 90° Fitting	5	EA		
4.12	4" Stainless Steel FL Cross Fitting	1	EA		
4.13	4" Aluminum Male Kamlock w/ Female Dust Cap	1	EA		
4.14	6" Ductile Iron 45° MJ Fitting	2	EA		
4.15	4"x6" Ductile Iron MJ In increaser	1	EA		
4.16	6" Tapping Sleeve and Valve w/ Valve Box	1	EA		
4.17	2" Schedule 40 PVC Drain Pipe	2	LF		
4.18	2" Duck Bill Check Valve	1	EA		
4.19	3" 316 Stainless Steel Pipe Support Brace w/ U-Bolt	1	LS		
4.20	2" SCH 40 316 Stainless Steel Guide Rails & Supports	1	LS		
4.21	316 Stainless Steel Float/Cable Holder	1	LS		
4.22	316 Stainless Steel Lifting Chains w/ Hammerlocks & Masterlinks	1	LS		
4.23	Lift Station Control Floats	1	LS		
4.24	ARV	1	EA		
4.25	2" 316 Stainless Steel Ball Valve	1	EA		
4.26	3/4" 316 Stainless Steel Ball Valve	2	EA		
4.27	Diaphragm Pressure Gauges	2	EA		
4.28	FRP Valve Box w/ Aluminum Access Hatch (H2O Traffic Rated)	1	LS		
4.29	Control Panel (NEMA 6P Enclosure)	1	LS		
4.30	Service Installation	1	LS		
4.31	Conduits to Wet Well	1	LS		
4.32	Install Motor Leads & Float Switches	1	LS		
4.33	Startup and Testing	1	LS		
4.34	Maintenance of Traffic (MOT) Plan	1	LS		
4.35	Bypass Pumping Plan	1	LS		
4.36	Roadway & Concrete Sidewalk Demolition	1	LS		
4.37	Roadway & Concrete Sidewalk Restoration	1	LS		
4.38	Site Restoration	1	LS		
4.39	Erosion Control	1	LS		
4.40	Access Hatch Assembly	1	EA		
4.41	Existing Lift Station Pump, Piping, and Valves Demolition	1	LS		
4.42	Existing Concrete Demolition	1	LS		
4.43	Existing Electrical Demolition	1	LS		
4.44	4" HDPE DR11 90° Fitting	2	EA		
4.45	4" 316 Stainless Steel Air Vent	1	EA		
4.46	Remote Telemetry Alert System	1	LS		
SUB-TOTAL LIFT STATION #7 SITE REHABILITATION					
5	<u>Lift Station #9 Site Rehabilitation</u>				
5.01	Submersible Centrifugal Pumps	2	EA		
5.02	Submersible Pump Base Plate	2	EA		
5.03	4" Hardened Cast Iron Discharge Elbows	2	EA		
5.04	4" HDPE DR11 Discharge Piping	28	LF		
5.05	4" HDPE DR11 Fused Offset Fitting	2	EA		
5.06	4" DIPS Flange HDPE/316 Stainless Steel Adapter	2	EA		
5.07	4" 316 Stainless Steel Piping	11	LF		
5.08	4" PVC - DR18	4	LF		
5.09	4" FL Check Valve	2	EA		
5.10	4" FL Plug Valve	3	EA		
5.11	4" 316 Stainless Steel FL 90° LR Fitting	3	EA		
5.12	4" Stainless Steel FL 90° Fitting	1	EA		

5.13	4" Stainless Steel FL Tee Fitting	2	EA		
5.14	4" Ductile Iron 90° MJ Fitting	1	EA		
5.15	4" Ductile Iron 45° MJ Fitting	1	EA		
5.16	4" Aluminum Male Kamlock w/ Female Dust Cap	1	EA		
5.17	3" 316 Stainless Steel Pipe Support Brace w/ U-Bolt	1	LS		
5.18	2" SCH 40 316 Stainless Steel Guide Rails & Supports	1	LS		
5.19	316 Stainless Steel Float/Cable Holder	1	LS		
5.20	6" 316 Stainless Steel Air Vent	1	LS		
5.21	316 Stainless Steel Lifting Chains w/ Hammerlocks & Masterlinks	1	LS		
5.22	Lift Station Control Floats	1	LS		
5.23	ARV	2	EA		
5.24	2" SCH 80 CPVC Ball Valve	2	EA		
5.25	2" SCH 80 CPVC Piping and Fittings	1	LS		
5.26	2" 316 Stainless Steel Ball Valve	2	EA		
5.27	3/4" 316 Stainless Steel Ball Valve	2	EA		
5.28	Diaphragm Pressure Gauges	2	EA		
5.29	316 Stainless Steel Pipe Stands	3	EA		
5.30	Geotextile Fabric	81	SF		
5.31	6" Granite #57 Stone	2	CY		
5.32	6' Tall Black Vinyl Chain Link Fence w/ Swing Gate	53	LF		
5.33	Connect to the Existing Collection System	1	EA		
5.34	Control Panel (NEMA 6P Enclosure)	1	LS		
5.35	Service Installation	1	LS		
5.36	Conduits to Wet Well	1	LS		
5.37	Install Motor Leads & Float Switches	1	LS		
5.38	Startup and Testing	1	LS		
5.39	Maintenance of Traffic (MOT) Plan	1	LS		
5.40	Bypass Pumping Plan	1	LS		
5.41	Roadway Demolition	1	LS		
5.42	Roadway Restoration	1	LS		
5.43	Site Restoration	1	LS		
5.44	Erosion Control	1	LS		
5.45	Access Hatch Assembly	1	EA		
5.46	Existing Lift Station Pump, Piping, and Valves Demolition	1	LS		
5.47	Existing Concrete Demolition	1	LS		
5.48	Existing Electrical Demolition	1	LS		
5.49	Remote Telemetry Alert System	1	LS		
SUB-TOTAL LIFT STATION #9 SITE REHABILITATION					
6	Lift Station #10 Site Rehabilitation				
6.01	Submersible Centrifugal Pumps	2	EA		
6.02	Submersible Pump Base Plate	2	EA		
6.03	4" Hardened Cast Iron Discharge Elbows	2	EA		
6.04	4"x6" 316 Stainless Steel Eccentric In increaser	2	EA		
6.05	6" HDPE DR11 Discharge Piping	34	LF		
6.06	6" HDPE DR11 Fused Offset Fitting	2	EA		
6.07	6" DIPS Flange HDPE/316 Stainless Steel Adapter	2	EA		
6.08	6" 316 Stainless Steel Piping	11	LF		
6.09	6" PVC - DR18	7	LF		
6.10	6" FL Check Valve	2	EA		
6.11	6" FL Plug Valve	3	EA		
6.12	6" 316 Stainless Steel FL 90° LR Fitting	3	EA		
6.13	6" Stainless Steel FL 90° Fitting	1	EA		
6.14	6" Stainless Steel FL Tee Fitting	2	EA		
6.15	6" Ductile Iron 90° MJ Fitting	1	EA		
6.16	6" Ductile Iron 45° MJ Fitting	2	EA		

6.17	6" Isolation Valve w/ Valve Box	1	EA		
6.18	6" Aluminum Male Kamlock w/ Female Dust Cap	1	EA		
6.19	3" 316 Stainless Steel Pipe Support Brace w/ U-Bolt	1	LS		
6.20	2" SCH 40 316 Stainless Steel Guide Rails & Supports	1	LS		
6.21	316 Stainless Steel Float/Cable Holder	1	LS		
6.22	6" 316 Stainless Steel Air Vent	1	LS		
6.23	316 Stainless Steel Lifting Chains w/ Hammerlocks & Masterlinks	1	LS		
6.24	Lift Station Control Floats	1	LS		
6.25	ARV	2	EA		
6.26	2" SCH 80 CPVC Ball Valve	2	EA		
6.27	2" SCH 80 CPVC Piping and Fittings	1	LS		
6.28	2" 316 Stainless Steel Ball Valve	2	EA		
6.29	3/4" 316 Stainless Steel Ball Valve	2	EA		
6.30	Diaphragm Pressure Gauges	2	EA		
6.31	316 Stainless Steel Pipe Stands	3	EA		
6.32	Geotextile Fabric	115	SF		
6.33	6" Granite #57 Stone	2.5	CY		
6.34	6' Tall Black Vinyl Chain Link Fence w/ Swing Gate	58	LF		
6.35	2" Corporation Stop w/ Saddle	1	EA		
6.36	Washdown Station Piping, Valves, Fitting, & Meter (Detail A4, M-903)	1	LS		
6.37	Connect to the Existing Collection System	1	EA		
6.38	Control Panel (NEMA 6P Enclosure)	1	LS		
6.39	Service Installation	1	LS		
6.40	Conduits to Wet Well	1	LS		
6.41	Install Motor Leads & Float Switches	1	LS		
6.42	Startup and Testing	1	LS		
6.43	Maintenance of Traffic (MOT) Plan	1	LS		
6.44	Bypass Pumping Plan	1	LS		
6.45	Site Restoration	1	LS		
6.46	Erosion Control	1	LS		
6.47	Access Hatch Assembly	1	EA		
6.48	Existing Lift Station Pump, Piping, and Valves Demolition	1	LS		
6.49	Existing Concrete Demolition	1	LS		
6.50	Existing Electrical Demolition	1	LS		
6.51	Remote Telemetry Alert System	1	LS		
SUB-TOTAL LIFT STATION #10 SITE REHABILITATION					
7	Lift Station Structural Components				
7.01	Concrete Class IV (5,500 PSI 28-Day Compressive Strength)	18	CY		
7.02	Grade 60 Carbon Steel Reinforcing	4,525	LB		
7.03	Link Type Modular Pipe Wall Penetration Seal	16	EA		
7.04	Electrical Panel Support Column & Foundation	10	EA		
7.05	Multilayer Polymer Liner System	1,300	SF		
7.06	Non-Shrink Grout Repair	4.9	CF		
SUB-TOTAL LIFT STATION STRUCTURAL COMPONENTS					
TOTAL BASE BID COST					

8	Lift Station Control Panels (Additive Alternate)				
8.01	Lift Station #1 - Powder Coated White NEMA 6P Control Panel	1	EA		
8.02	Lift Station #6 - Powder Coated White NEMA 6P Control Panel	1	EA		
8.03	Lift Station #7 - Powder Coated White NEMA 6P Control Panel	1	EA		
8.04	Lift Station #9 - Powder Coated White NEMA 6P Control Panel	1	EA		
8.05	Lift Station #10 - Powder Coated White NEMA 6P Control Panel	1	EA		
TOTAL LIFT STATION CONTROL PANELS (ADDITIVE ALTERNATE) BID COST					

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CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION

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ATTACHMENTS

ATTACHMENT A	FDOT UTILITY PERMIT	
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END OF TABLE OF CONTENTS

Date: _____

Tyler Lee, P.E.
(Environmental Discipline)
Florida Registration No. 93309
Telephone No. 850.438.9661

Date: _____

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2888 Remington Green Ln
Tallahassee, FL 32308
Telephone No. 850.893.7722

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PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Galvanized-Steel chain link fabric.
- 2. Galvanized-steel framework.

- B. Related Sections:

- 1. Section 03 30 53 "Miscellaneous Cast-in-Place Concrete for post footings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work. Show accessories, hardware, gate operation, and operational clearances.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who has at least three years' experience and has completed at least five chain link fence projects with same material and of similar scope to that indicated for this Project with a successful construction record of in service performance.
- B. Single Source Responsibility: Obtain chain link fences and gates, including accessories, fittings, and fastenings, from a single source.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE

A. Reinforced Vinyl Fence Fabric

1. Fabric Diameter & Finish: As indicated on Drawing sheet C-900, Detail A1.
 - a. No. 9 gauge core (0.148" + 0.005") size steel wires, 2-inch mesh, with top and bottom selvages with a minimum breaking strength of 1290 pounds. Furnish one-piece fabric widths for fencing up to 12-inches high. Fabric undercoat shall not be less than 0.30 ounces of zinc per square foot of surface.
2. Fabric Color: Minimum 7 mil polyvinyl chloride (PVC) plastic resin thermal fusion bonded finish over galvanized steel wire. Color shall be Manufacturer's standard black color selection.

2.2 FENCE FRAMING

A. Posts and Rails: Comply with ASTM F 1083 for framing, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F 1083 based on the following:

1. Fence Height: 72 inches.
2. Heavy Industrial Strength: Material Group IA, round steel pipe, Schedule 40
 - a. End, Corner, Line, and Pull Post: 4.0 inches in diameter.
3. Horizontal Framework Members: top and bottom rails complying with ASTM F 1043.
 - a. Top Rail: Manufacturer's longest lengths, with expansion type couplings, approximately 6 inches long, for each joint. Provide means for attaching top rail securely to each gate corner, pull and end post. Post shall be 1.66-inch O.D. pipe, 2.27 pounds per foot or 1.625-inch x 1.25-inch roll-formed sections, 1.35 pounds per foot.
4. Brace Rails: Comply with ASTM F 1043.
5. Metallic Coating for Steel Framing:
 - a. Type A, consisting of not less than minimum 2.0-oz./sq. ft. average zinc coating per ASTM A 123/A 123M. Coating thickness shall match the coating thickness of chain-link fence fabric.

2.3 TENSION WIRE

A. Metallic-Coated Steel Wire: 0.177-inch- diameter, marcelled tension wire complying with ASTM A 817 and ASTM A 824.

2.4 DOUBLE SWING GATES

- A. General: Comply with ASTM F 900 for gate posts and single sliding gate types.
 - 1. Classification: Double Swing Gate. Typical length of gate is 16' (8' per gate section). Contractor to verify length of gate with owner prior to fabrication.
 - a. Gate Leaf Width: As indicated in drawings.
 - b. Gate Fabric Height: As indicated in drawings.
- B. Pipe and Tubing:
 - 1. Zinc-Coated Steel: Protective coating and finish to match fence framing.
 - 2. Gate Posts: Comply with ASTM F 900. Provide round tubular steel posts.
 - 3. Gate Frames and Bracing: Round tubular steel.
- C. Frame Corner Construction: Welded.

2.5 FITTINGS

- A. General: Comply with ASTM F 626.
- B. Post Caps: Provide for each post.
 - 1. Provide line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: For each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
 - 1. Top Rail Sleeves: Pressed-steel or round-steel tubing not less than 6 inches long.
 - 2. Rail Clamps: Line and corner boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.
- E. Tension and Brace Bands: Pressed steel.
- F. Tension Bars: Steel length not less than 2 inches shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.
- G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading and turnbuckle or other means of adjustment.
- H. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
 - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
 - a. Hot-Dip Galvanized Steel: 0.106-inch- diameter wire galvanized coating thickness matching coating thickness of chain-link fence fabric.

I. Finish:

1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz. /sq. ft. zinc.

2.6 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

2.7 FENCE GROUNDING

- A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
 1. Material above Finished Grade: Copper.
 2. Material on or below Finished Grade: Copper.
 3. Bonding Jumpers: Braided copper tape, 1 inch wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Connectors and Grounding Rods: Comply with UL 467.
 1. Connectors for Below-Grade Use: Exothermic welded type.
 2. Grounding Rods: Copper-clad steel, 5/8 by 100 inches.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements indicated.

1. Install fencing on established boundary lines inside property line.

3.3 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Exposed Concrete: Extend 1 inches above grade; shape and smooth to shed water.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.
- D. Line Posts: Space line posts uniformly at 96 inches o.c.
- E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Diagonally brace terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
 1. Locate horizontal braces at midheight of fabric 72 inches or higher, on fences with top rail and at two-third fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install tension wire in locations indicated before stretching fabric. Provide horizontal tension wire at the following locations:
 1. Extended along top and bottom of fence fabric. Install top tension wire through post cap loops. Install bottom tension wire within 6 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- H. Intermediate and Bottom Rails: Install and secure to posts with fittings.

- I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches o.c.
- J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.
- K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.

3.4 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.5 GROUNDING AND BONDING

- A. Fence Grounding: Install at maximum intervals of 100 feet.
- B. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a maximum distance of 150 feet on each side of crossing.
- C. Fences Enclosing Electrical Power Distribution Equipment: Ground as required by IEEE C2 unless otherwise indicated.
- D. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location.
- E. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- F. Connections: Make connections to minimize possibility of galvanic action or electrolysis. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
 - 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
 - 2. Make connections with clean, bare metal at points of contact.
 - 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
 - 4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.

5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- G. Bonding to Lightning Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning protection down conductor or lightning protection grounding conductor complying with NFPA 780.

3.6 ADJUSTING

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 32 31 13

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PERMIT NO: 2024-H-296-00005

STATE ROAD INFORMATION

County: Levy	Section: 34070000	State Road No: SR 24	Beginning Mile Post: 0.241	Ending Mile Post: 0.397
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

Utility Agency/Owner (UAO)		Utility Builder (only applicable when the UAO is a City or County)	
Name:	<u>Cedar Key Water & Sewer District</u>	Name:	_____
Contact Person:	<u>Cedar Key Water & Sewer District</u>	Contact Person:	_____
Address:	<u>P.O. Box 921</u>	Address:	_____
City:	<u>Cedar Key</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>32625</u>	Zip:	_____
Telephone:	<u>3525435285</u>	Telephone:	_____
Email:	<u>John@ckwater.org</u>	Email:	_____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

Cedar Key water and Sewer are rehabilitating Lift Station 6, which will consist of connecting a proposed 6" Force main to an existing 6" force main located in the shoulder of SR 24 and replacing the current pumps and valves for new pumps with above-grade valves.

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes No

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes No

TRAFFIC CONTROL (TCP)

The TCP will comply with the following 600 series index(es) 605, 601, 602, 660

A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: James McCain Telephone (353) 543-5285 ext. _____ Email: james@ckwater.org

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 4/15/2024

Calendar days needed to completed: 260

Approved
2024-H-296-00005
Mark Hanna
3/25/2024

Florida Department of Transportation
UTILITY PERMIT

PERMIT NO: 2024-H-296-00005

APPLICANT SIGNATURE

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified: <u>1/25/2024</u>	Name of other facility owners (attach additional sheets if necessary). <u>Central Florida Electric Cooperative, Inc</u>
_____	_____
_____	_____
_____	_____

Utility Agency/Owner

Utility Builder (when applicable)

Signature: TYLER LEE (digital signature) Date: 1/26/2024
 Name (printed): TYLER LEE
 Title: _____

Signature: _____ Date: _____
 Name (printed): _____
 Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:
There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved utility work schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes No

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and /or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Mark Hanna (digital signature) Date: 3/25/2024
 Name: Mark Hanna
 Title: DIST MAINT CONTRACTS ADMINISTRATOR

Notification of Utility Work to be provided to: Telephone (352) 493-6893 ext. _____ or Email: robert.webster@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes No

Rep. Name: Robert Webster Telephone 3524936893 Email: robert.webster@dot.state.fl.us

Approved
2024-H-296-00005
Mark Hanna
3/25/2024

Florida Department of Transportation
UTILITY PERMIT

PERMIT NO: 2024-H-296-00005

CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on _____ and was completed on _____ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: _____ Date _____

Signature: _____ Date _____

Name (printed): _____

Name (printed): _____

Title: _____

Title: _____

FINAL INSPECTION OF WORK

The work was inspected and found to be in non-compliance as noted below:

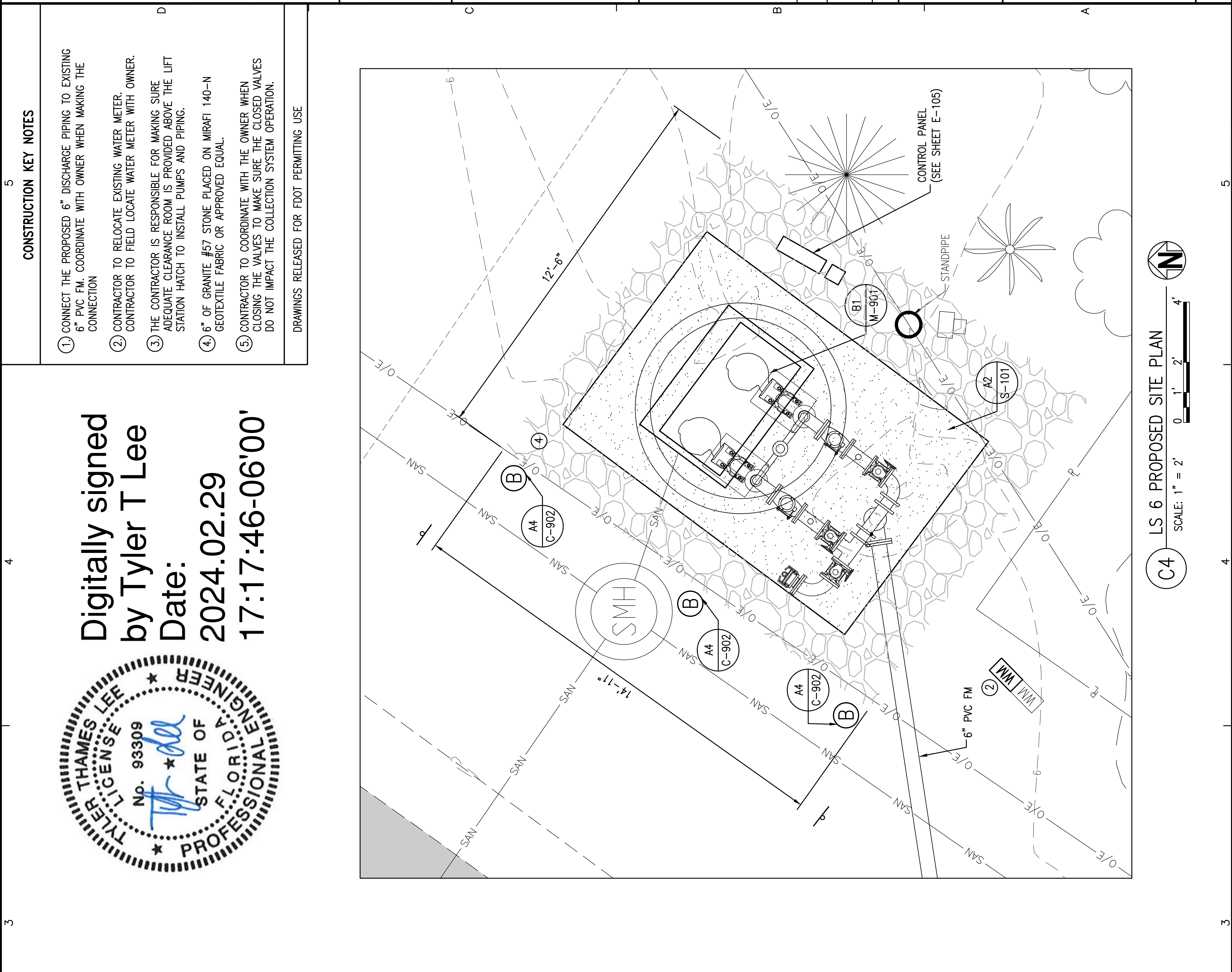
All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: _____ Date: _____

Name: _____


Title: _____

Approved
2024-H-296-00005
Mark Hanna
3/25/2024




Digitally signed
by Tyler T Lee
Date: 2024.02.29
17:17:46-06'00'

- CONSTRUCTION KEY NOTES**
- ① CONNECT THE PROPOSED 6" DISCHARGE PIPING TO EXISTING 6" PVC FM. COORDINATE WITH OWNER WHEN MAKING THE CONNECTION
 - ② CONTRACTOR TO RELOCATE EXISTING WATER METER. CONTRACTOR TO FIELD LOCATE WATER METER WITH OWNER.
 - ③ THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE ADEQUATE CLEARANCE ROOM IS PROVIDED ABOVE THE LIFT STATION HATCH TO INSTALL PUMPS AND PIPING.
 - ④ 6" OF GRANITE #57 STONE PLACED ON MIRAFI 140-N GEOTEXTILE FABRIC OR APPROVED EQUAL.
 - ⑤ CONTRACTOR TO COORDINATE WITH THE OWNER WHEN CLOSING THE VALVES TO MAKE SURE THE CLOSED VALVES DO NOT IMPACT THE COLLECTION SYSTEM OPERATION.
- DRAWINGS RELEASED FOR FDOT PERMITTING USE


BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 449 W. MAIN ST. PENSACOLA, FL 32502 (850)433-9661
 PENSACOLA - Panama City Beach - Tallahassee - Mobile

Tyler T. Lee
 FL Reg. Engineer #93309

CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 123503.01
 DESIGNED BY: TTL
 DRAWN BY: RGD
 CH'D BY: RMD
 PROJ. MGR: JMJ
 DATE: FEBRUARY 2023
 NOT RELEASED FOR CONSTRUCTION BY DATE

LS 6
 PROPOSED SITE
 PLAN

C4 LS 6 PROPOSED SITE PLAN
 SCALE: 1" = 2'

B3 LS 6 PROPOSED SITE PLAN
 SCALE: 1" = 10'

**FDOT
 STANDARD DETAILS**

PROJECT NO:	123503.01
DESIGNED BY:	TLL
DRAWN BY:	RGG
CHECKED BY:	RWD
PROJ. MGR.:	JMJ
DATE:	FEBRUARY 2023
NOT RELEASED FOR CONSTRUCTION BY	DATE
NO.	DATE
APPR.	DATE
REVISION/ACTION TAKEN	

**CEDAR KEY
 SANITARY SEWER
 LIFT STATION
 REHABILITATION**

FL Reg. Engineer #93309
 TYLER T. LEE

BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
 ENGINEERING BUSINESS: EB-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile

GENERAL NOTES:

- For curb, gutter and curb & gutter provide $\frac{1}{8}$ " - $\frac{1}{4}$ " contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.
- Locate expansion joints for curb, gutter and curb & gutter in accordance with Specification 520.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Concrete Curb and Gutter
3	Curb and Gutter Joints and Endings, Concrete Bumper Guard, and Asphaltic Concrete Curb

REVISION

LAST REVISION	11/01/21
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DESCRIPTION:

CURB AND GUTTER

TYPE A
TYPE E
TYPE F
SHOULDER GUTTER

TYPE A, TYPE E, TYPE F, AND SHOULDER GUTTER
 (Other Types Similar)
CONCRETE BUMPER GUARD

INDEX

520-001

1 of 3

SHEET

1 of 3

<p>11/01/20</p> <p>LAST REVISION</p>	<p>REVISION</p>	<p>DESCRIPTION:</p>	<p>FY 2023-24 STANDARD PLANS</p> <p>FDOT</p> <p>TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER</p> <p>INDEX 102-601</p> <p>SHEET 1 of 1</p>
<p>1 2 3 4 5</p>			
<p>A B C D</p>			

<p>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile</p>	<p>FL Reg. Engineer #93309 TYLER T. LEE</p>	<p>CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION</p>	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>APPR.</th> <th>REVISION/ACTION TAKEN</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	APPR.	REVISION/ACTION TAKEN																																					<p>PROJECT NO: 123503.01</p> <p>DESIGNED BY: TLL</p> <p>DRAWN BY: RGG</p> <p>CHECK'D BY: RWD</p> <p>PROJ. MGR: JMJ</p> <p>DATE: FEBRUARY 2023</p> <p>NOT RELEASED FOR CONSTRUCTION BY DATE</p>
NO.	DATE	APPR.	REVISION/ACTION TAKEN																																									



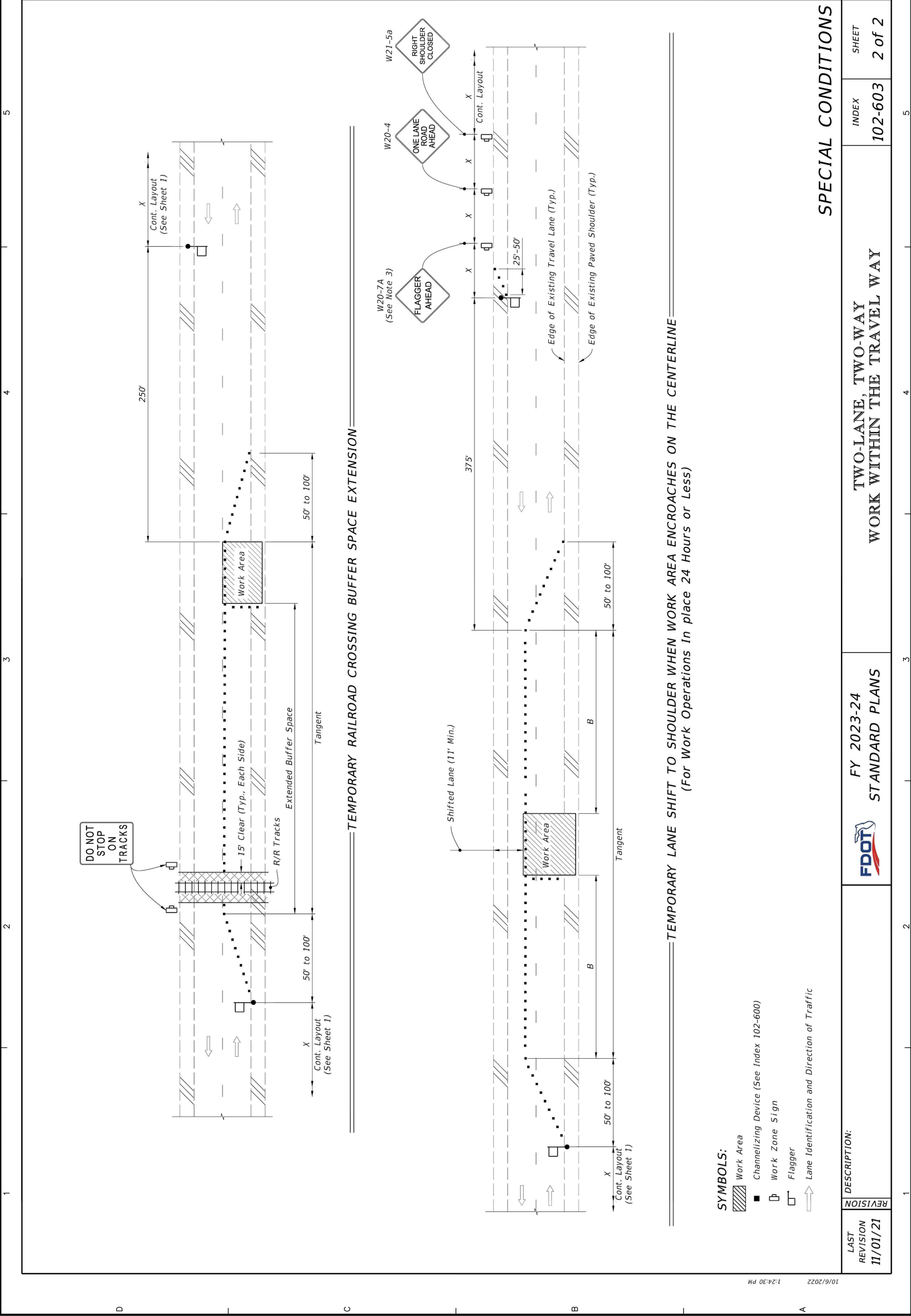
MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

Offset Zone:
a. Behind an existing barrier,
b. More than 2' behind the curb,
c. 15' or more from the traveled way.

SYMBOLS:
 Work Area
 Lane Identification and Direction of Traffic

NOTES:
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

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LAST REVISION	REVISION	DESCRIPTION:
11/01/21		

FDOT
 FY 2023-24
 STANDARD PLANS

**TWO-LANE, TWO-WAY
 WORK WITHIN THE TRAVEL WAY**

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SPECIAL CONDITIONS

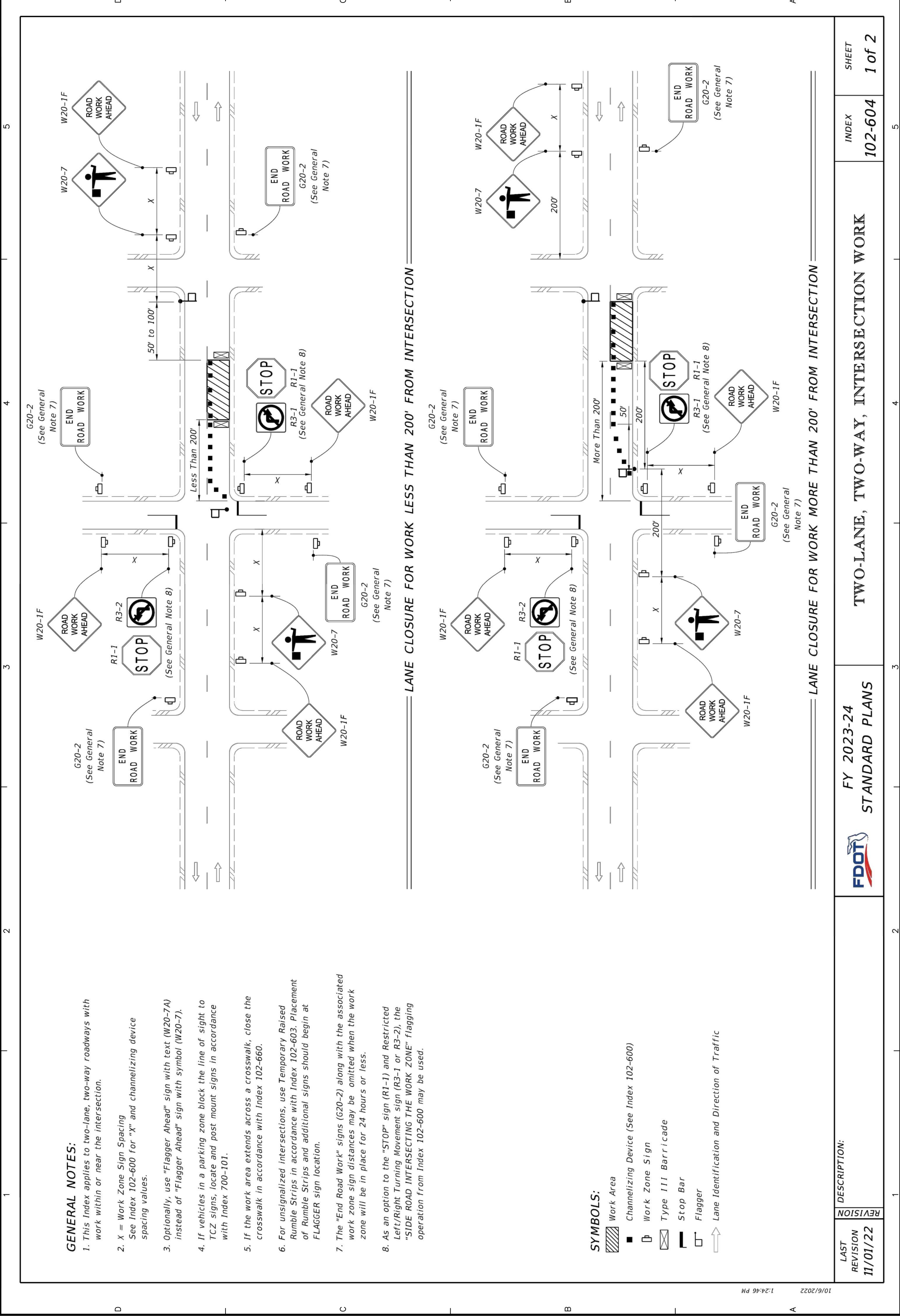
FDOT
 STANDARD DETAILS

PROJECT NO:	123503.01
DESIGNED BY:	TLL
DRAWN BY:	RGG
CHK'D BY:	RWD
PROJ. MGR:	JMJ
DATE:	FEBRUARY 2023
NOT RELEASED FOR CONSTRUCTION BY	DATE
REVISION/ACTION TAKEN	NO. DATE APPR.

**CEDAR KEY
 SANITARY SEWER
 LIFT STATION
 REHABILITATION**

FL Reg. Engineer #93309
 TYLER T. LEE

BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 449 W. MAIN ST. PENSACOLA, FL 32502 (850)939-9661
 PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE



1	2	3	4	5
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LAST REVISION 11/01/22	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX 102-604	SHEET 1 of 2
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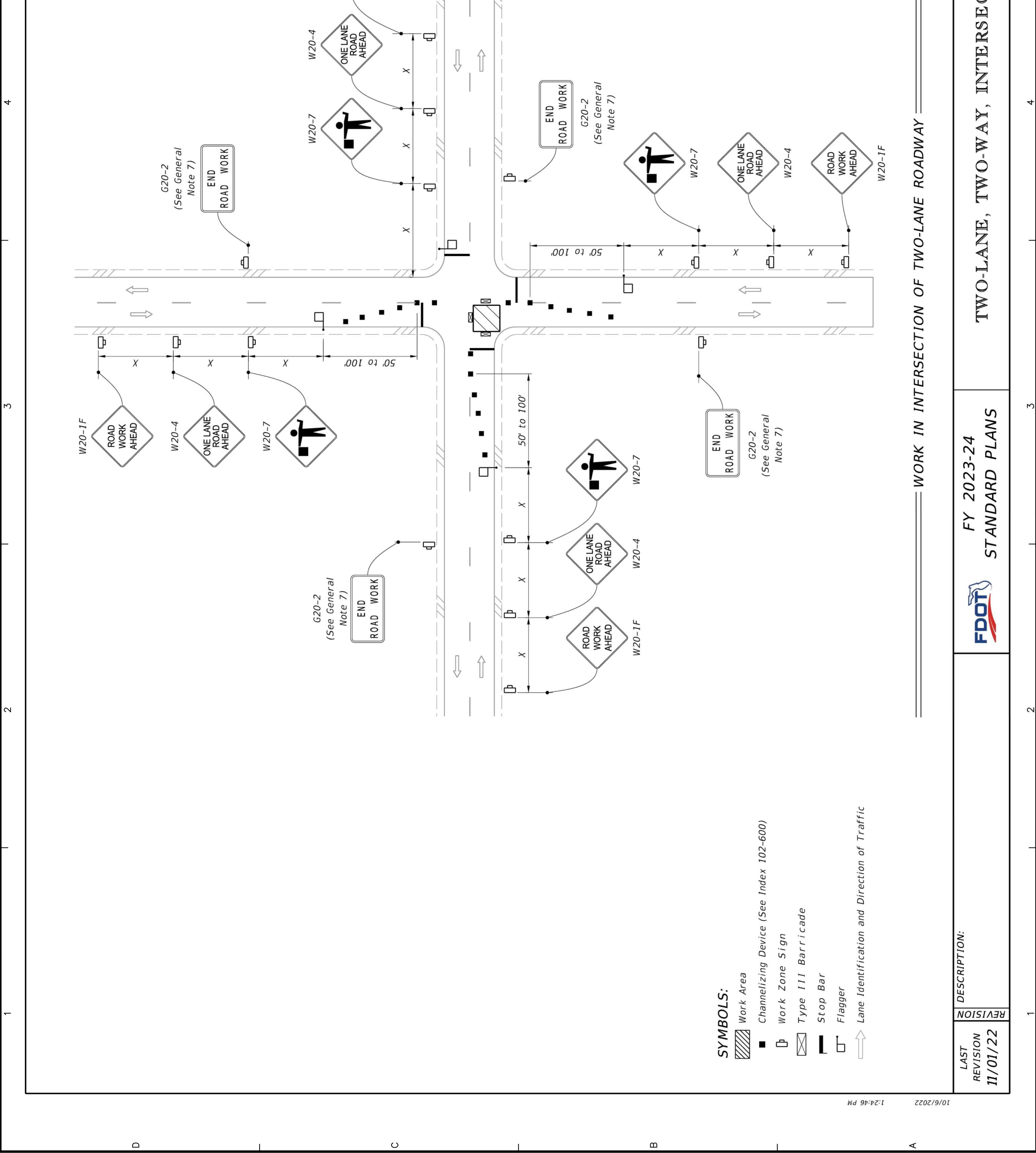
1	2	3	4	5
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FDOT STANDARD DETAILS	PROJECT NO: 123503.01	NOT RELEASED FOR CONSTRUCTION BY DATE
	DESIGNER BY: TLL DRAWN BY: RGG CHECK'D BY: RMD PROJ. MGR: JMJ DATE: FEBRUARY 2023	REVISION/ACTION TAKEN NO. DATE APPR.

BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 449 W. MAIN ST. PANASCOLA, FL 32502 (850)493-9661
 ENGINEERING BUSINESS: EB-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile

FL Reg. Engineer #93309
 TYLER T. LEE

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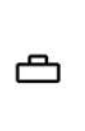




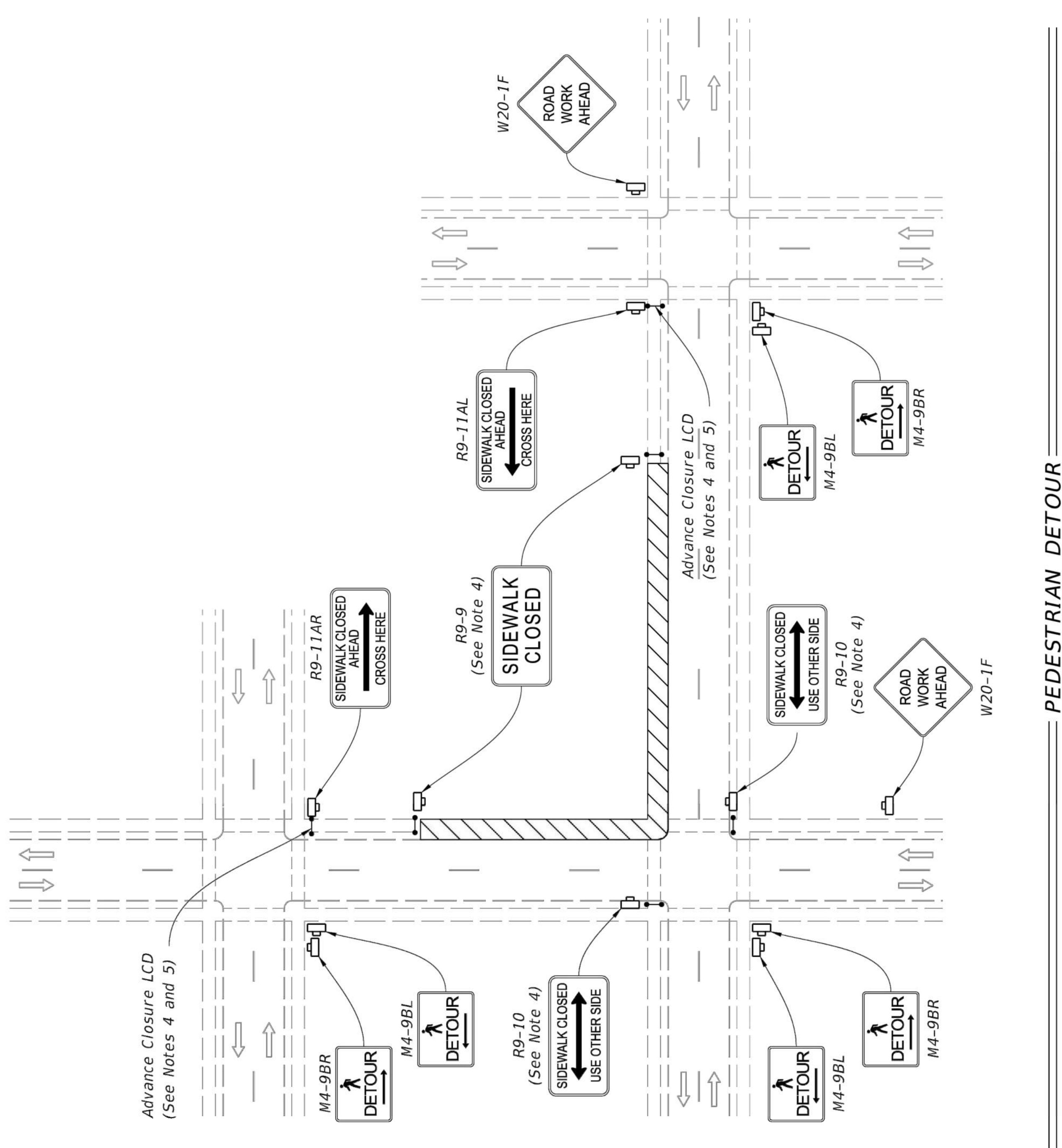
LAST REVISION 11/01/22	REVISION	DESCRIPTION:
STANDARD PLANS		
TWO-LANE, TWO-WAY, INTERSECTION WORK		
INDEX 102-604	SHEET 2 of 2	

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7" clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

SYMBOLS:

-  Work Area
-  Work Zone Sign
-  Pedestrian Longitudinal Channelizing Device (LCD)
-  Lane Identification and Direction of Traffic



LAST REVISION	DESCRIPTION:
11/01/20	

FDOT
 FY 2023-24
 STANDARD PLANS

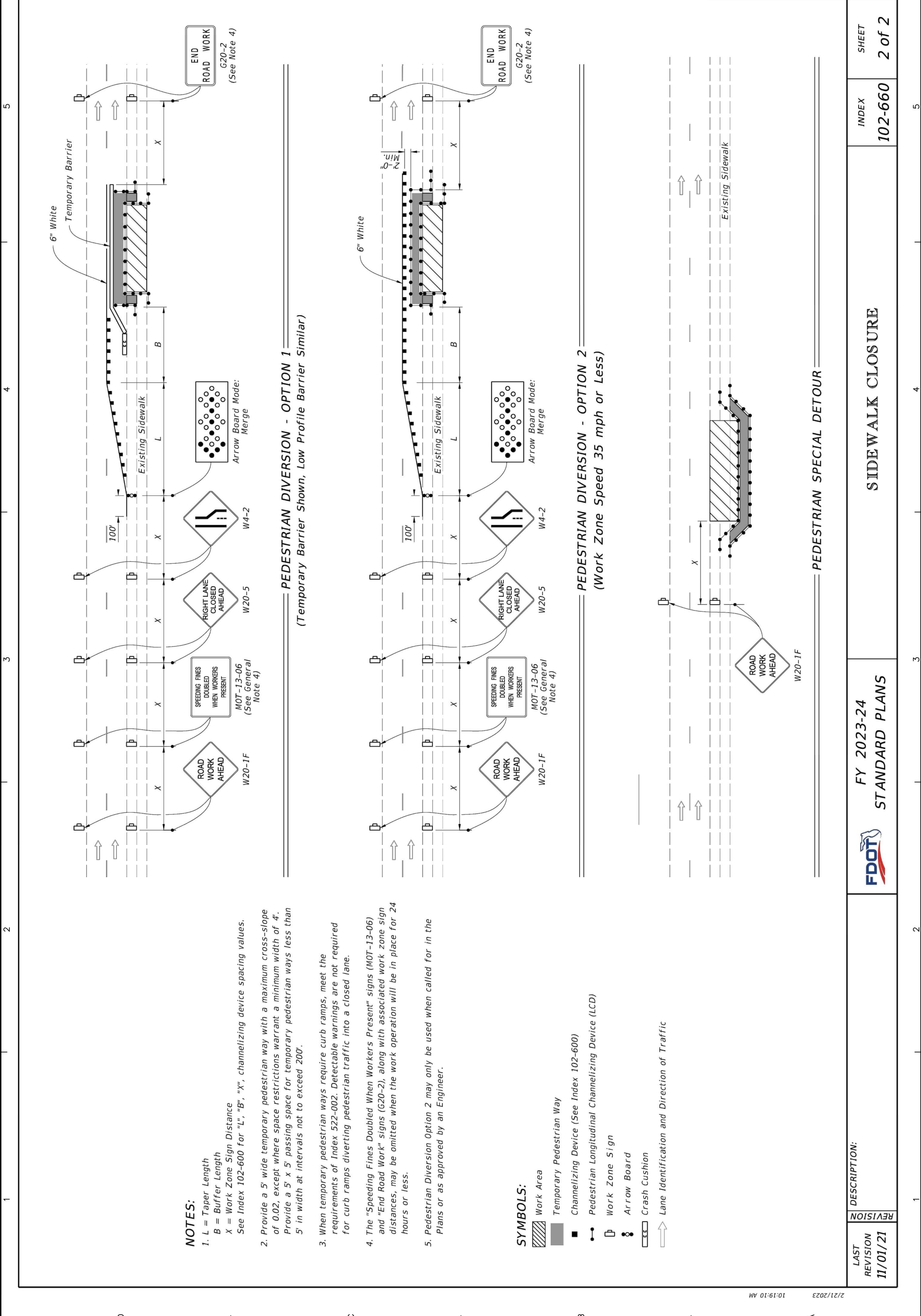
SIDEWALK CLOSURE

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<p>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W. MAIN ST., PANAMA CITY BEACH, FL 32502 (850)939-9661 ENGINEERING BUSINESS: EB-0000340 Panama City Beach - Tallahassee - Mobile</p>	<p>FL Reg. Engineer #93309 TYLER T. LEE</p>	<p>CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT NO:</td> <td>123503.01</td> </tr> <tr> <td>DESIGNED BY:</td> <td>TTL</td> </tr> <tr> <td>DRAWN BY:</td> <td>RGG</td> </tr> <tr> <td>CHECK'D BY:</td> <td>RWD</td> </tr> <tr> <td>PROJ. MGR.:</td> <td>JMJ</td> </tr> <tr> <td>DATE:</td> <td>FEBRUARY 2023</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td>NOT RELEASED FOR CONSTRUCTION BY</td> <td>DATE</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>REVISION/ACTION TAKEN</td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	PROJECT NO:	123503.01	DESIGNED BY:	TTL	DRAWN BY:	RGG	CHECK'D BY:	RWD	PROJ. MGR.:	JMJ	DATE:	FEBRUARY 2023	NOT RELEASED FOR CONSTRUCTION BY	DATE			REVISION/ACTION TAKEN							
PROJECT NO:	123503.01																										
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REVISION/ACTION TAKEN																											

FDOT STANDARD DETAILS PROJECT NO: 123503.01 DESIGNED BY: TLL DRAWN BY: RGG CH'D BY: RWD PROJ. MGR: JMJ DATE: FEBRUARY 2023 NOT RELEASED FOR CONSTRUCTION BY DATE		CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION		Tyler T. Lee FL Reg. Engineer #93309		BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W MAIN ST, PENSACOLA, FL 32502 (850)433-9661 PENSACOLA - Panama City Beach - Tallahassee - Mobile	
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C-914
 2023-06-10 0005
 Mark Hanna
 3/25/2024



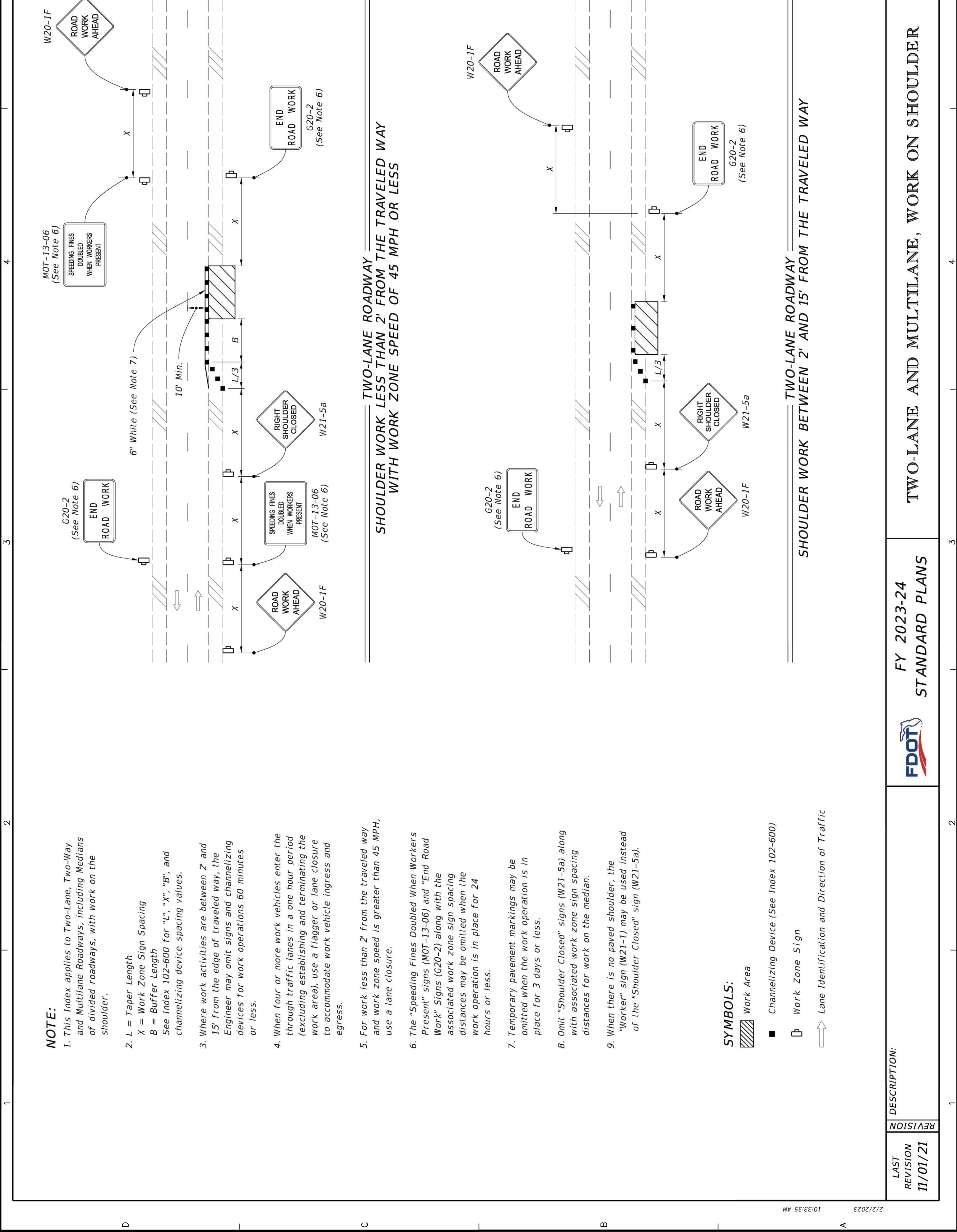
- NOTES:**
- L = Taper Length
 B = Buffer Length
 X = Work Zone Sign Distance
 See Index 102-600 for "L", "B", "X", channelizing device spacing values.
 - Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
 - When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
 - The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
 - Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

- SYMBOLS:**
- Work Area
 - Temporary Pedestrian Way
 - Channelizing Device (See Index 102-600)
 - Pedestrian Longitudinal Channelizing Device (LCD)
 - Work Zone Sign
 - Arrow Board
 - Crash Cushion
 - Lane Identification and Direction of Traffic

LAST REVISION 11/01/21	DESCRIPTION: STANDARD PLANS	INDEX 102-660	SHEET 2 of 2
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BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W. MAIN ST. PENSACOLA, FL 32502 (850)493-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile	CEAR KEY SANITARY SEWER LIFT STATION REHABILITATION	FL Reg. Engineer #93309 TYLER T. LEE	PROJECT NO. 123503.01 DESIGNED BY: TLL DRAWN BY: RGG CHK'D BY: RMD PROJ. MGR: JMJ DATE: FEBRUARY 2023 NOT RELEASED FOR CONSTRUCTION BY DATE
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FDOT STANDARD DETAILS	INDEX 102-602	SHEET 1 of 2	C-915 <small>2016-06-10005</small> <small>Mark Hanna</small> <small>3/25/2024</small>
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NOTE:

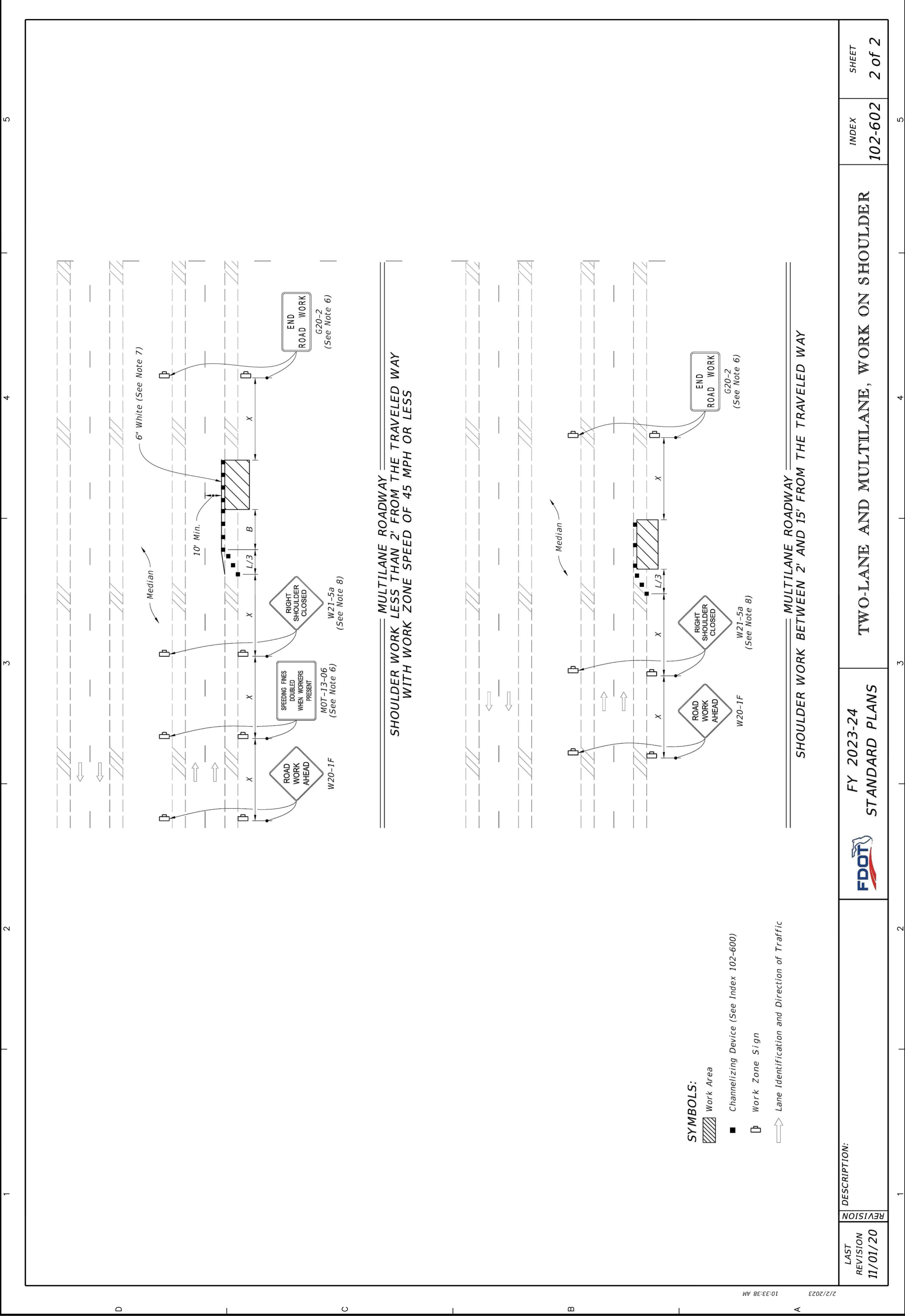
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
X = Work Zone Sign Spacing
B = Buffer Length
See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

DESCRIPTION:	FY 2023-24 STANDARD PLANS
LAST REVISION 11/01/21	TWO-LANE AND MULTILANE, WORK ON SHOULDER

FDOT STANDARD DETAILS	PROJECT NO. 123503.01	NOT RELEASED FOR CONSTRUCTION BY DATE
	DATE: FEBRUARY 2023	FL Reg. Engineer #93309 TYLER T. LEE
CDAR KEY SANITARY SEWER LIFT STATION REHABILITATION	DESIGNER: TLL DRAWN BY: RGG CHECK'D BY: RMD PROJ. MGR: JMJ	REVISION/ACTION TAKEN



- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic

LAST REVISION
11/01/20

DESCRIPTION:

FDOT
 FY 2023-24
 STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

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102-602

SHEET
2 of 2

PROJECT NO. 123503.01	DESIGNED BY: TLL	DRAWN BY: RGG	CHK'D BY: RMD	PROJ. MGR: JMJ	DATE: FEBRUARY 2023	NOT RELEASED FOR CONSTRUCTION BY DATE
NO.	DATE	APPR.	REVISION/ACTION TAKEN			

FD01 STANDARD DETAILS

CDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION

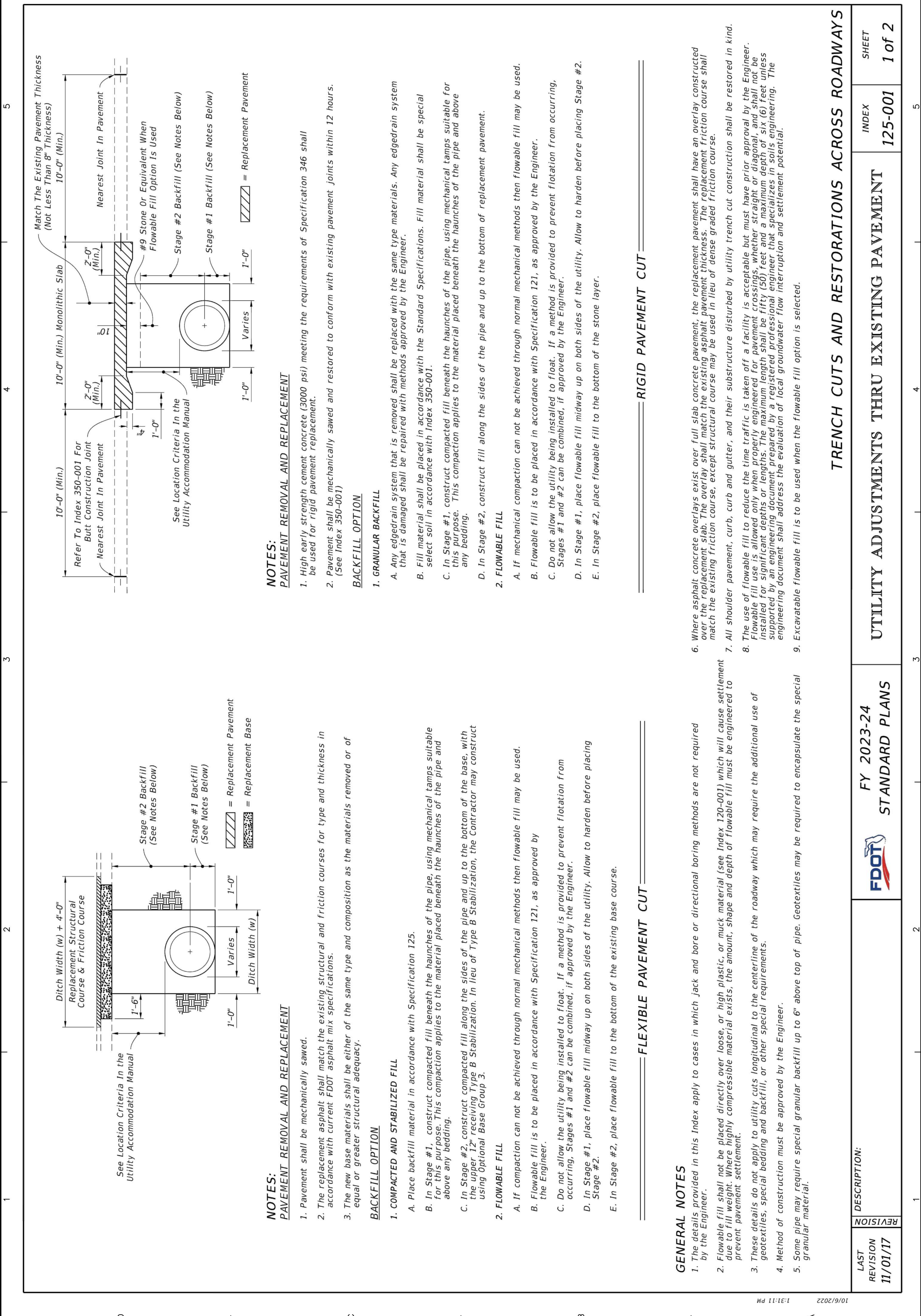
TLER T. LEE
FL Reg. Engineer #93309

449 W. MAIN ST. PENSACOLA, FL 32502 (850)939-9661
ENGINEERING THE SOUTH SINCE 1927
BASKERVILLE-DONOVAN, INC.

Pensacola - Panama City Beach - Tallahassee - Mobile

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C-917
Revised
16-10005
Mark Hanna
3/25/2024



NOTES:

PAVEMENT REMOVAL AND REPLACEMENT

1. Pavement shall be mechanically sawed.
2. The replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with current FDOT asphalt mix specifications.
3. The new base materials shall be either of the same type and composition as the materials removed or of equal or greater structural adequacy.

BACKFILL OPTION

1. COMPACTED AND STABILIZED FILL

- A. Place backfill material in accordance with Specification 125.
- B. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- C. In Stage #2, construct compacted fill along the sides of the pipe and up to the bottom of the base, with the upper 12" receiving Type B Stabilization. In lieu of Type B Stabilization, the Contractor may construct using Optional Base Group 3.

2. FLOWABLE FILL

- A. If compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Specification 121, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the existing base course.

FLEXIBLE PAVEMENT CUT

GENERAL NOTES

1. The details provided in this Index apply to cases in which jack and bore or directional boring methods are not required by the Engineer.
2. Flowable fill shall not be placed directly over loose, or high plastic, or muck material (see Index 120-001) which will cause settlement due to fill weight. Where highly compressible material exists, the amount, shape and depth of flowable fill must be engineered to prevent pavement settlement.
3. These details do not apply to utility cuts longitudinal to the centerline of the roadway which may require the additional use of geotextiles, special bedding and backfill, or other special requirements.
4. Method of construction must be approved by the Engineer.
5. Some pipe may require special granular backfill up to 6" above top of pipe. Geotextiles may be required to encapsulate the special granular material.

NOTES:

PAVEMENT REMOVAL AND REPLACEMENT

1. High early strength cement concrete (3000 psi) meeting the requirements of Specification 346 shall be used for rigid pavement replacement.
2. Pavement shall be mechanically sawed and restored to conform with existing pavement joints within 12 hours. (See Index 350-001)

BACKFILL OPTION

1. GRANULAR BACKFILL

- A. Any edgeline system that is removed shall be replaced with the same type materials. Any edgeline system that is damaged shall be repaired with methods approved by the Engineer.
- B. Fill material shall be placed in accordance with the Standard Specifications. Fill material shall be special select soil in accordance with Index 350-001.
- C. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- D. In Stage #2, construct fill along the sides of the pipe and up to the bottom of replacement pavement.

2. FLOWABLE FILL

- A. If mechanical compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Specification 121, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the stone layer.

RIGID PAVEMENT CUT

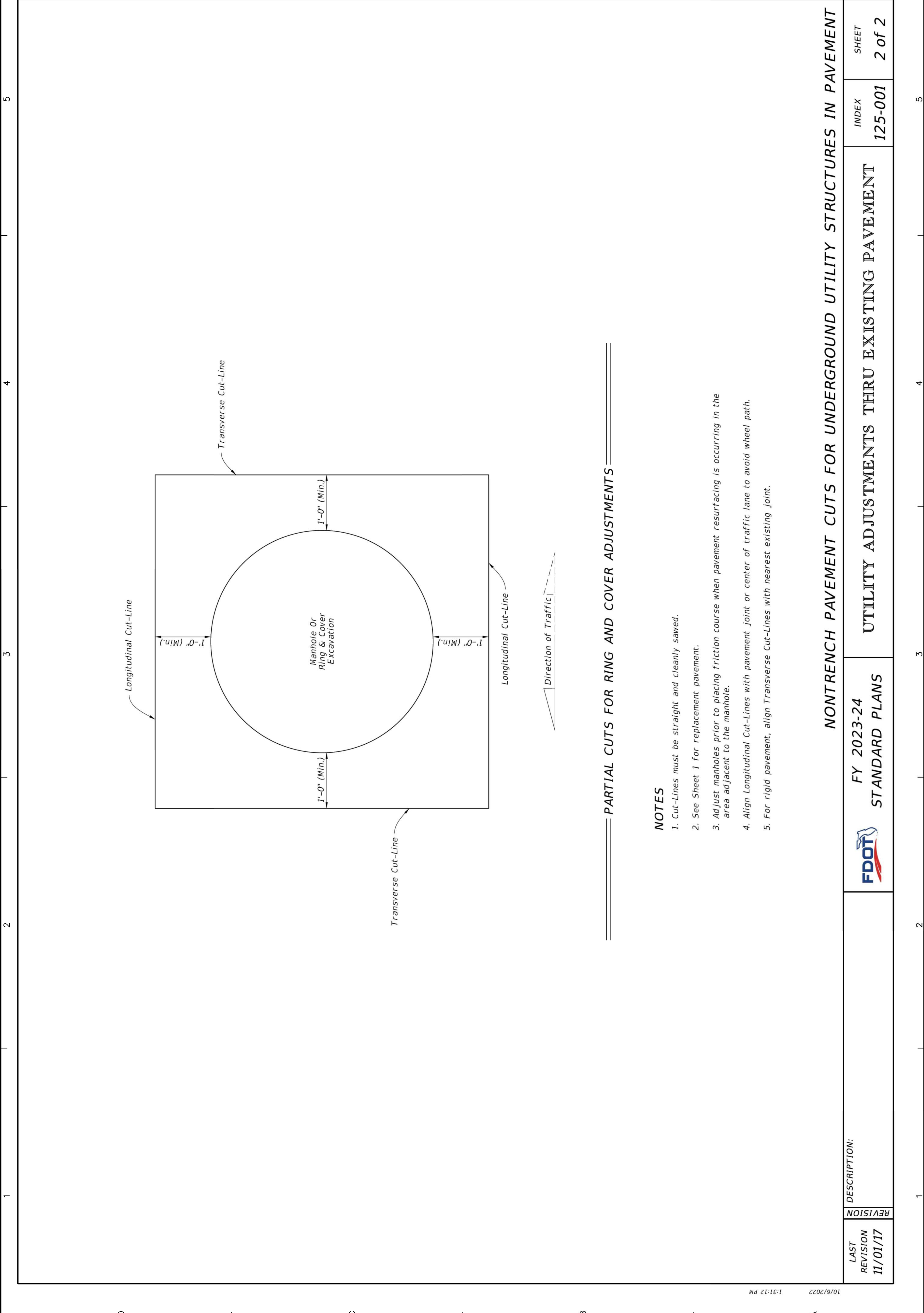
6. Where asphalt concrete overlays exist over full slab concrete pavement, the replacement pavement shall have an overlay constructed over the replacement slab. The overlay shall match the existing asphalt pavement thickness. The replacement friction course shall match the existing friction course, except structural course may be used in lieu of dense graded friction course.
7. All shoulder pavement, curb, gutter, and their substructure disturbed by utility trench cut construction shall be restored in kind.
8. The use of flowable fill to reduce the time traffic is taken off a facility is acceptable but must have prior approval by the Engineer. Flowable fill use is allowed only when properly engineered for pavement crossings, whether straight or diagonal, and shall not be installed for significant depths or lengths. The maximum length shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering. The engineering document shall address the evaluation of local groundwater flow interruption and settlement potential.
9. Excavatable flowable fill is to be used when the flowable fill option is selected.

DESCRIPTION:	TRENCH CUTS AND RESTORATIONS ACROSS ROADWAYS	
REVISION	INDEX	SHEET
LAST REVISION 11/01/17	125-001	1 of 2
FY 2023-24 STANDARD PLANS		

BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W. MAIN ST. PANASCOLA, FL 32502 (850)438-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile	Tyler T. Lee FL Reg. Engineer #93309	REHABILITATION LIFT STATION SANITARY SEWER CEDAR KEY		PROJECT NO: 123503.01	DESIGNED BY: TLL DRAWN BY: RGG CHECK'D BY: RMD PROJ. MGR: JMJ DATE: FEBRUARY 2023
		NOT RELEASED FOR CONSTRUCTION BY DATE	REVISION/ACTION TAKEN	APPR.	DATE

C-918
 saved
 2/24/2024 10:005
 Mark Hanna
 3/25/2024

FDOT
 STANDARD DETAILS



PARTIAL CUTS FOR RING AND COVER ADJUSTMENTS

NOTES

1. Cut-Lines must be straight and cleanly sawed.
2. See Sheet 1 for replacement pavement.
3. Adjust manholes prior to placing friction course when pavement resurfacing is occurring in the area adjacent to the manhole.
4. Align Longitudinal Cut-Lines with pavement joint or center of traffic lane to avoid wheel path.
5. For rigid pavement, align Transverse Cut-Lines with nearest existing joint.

NONTRENCH PAVEMENT CUTS FOR UNDERGROUND UTILITY STRUCTURES IN PAVEMENT
UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT

FY 2023-24
 STANDARD PLANS



LAST REVISION 11/01/17	REVISION	DESCRIPTION:
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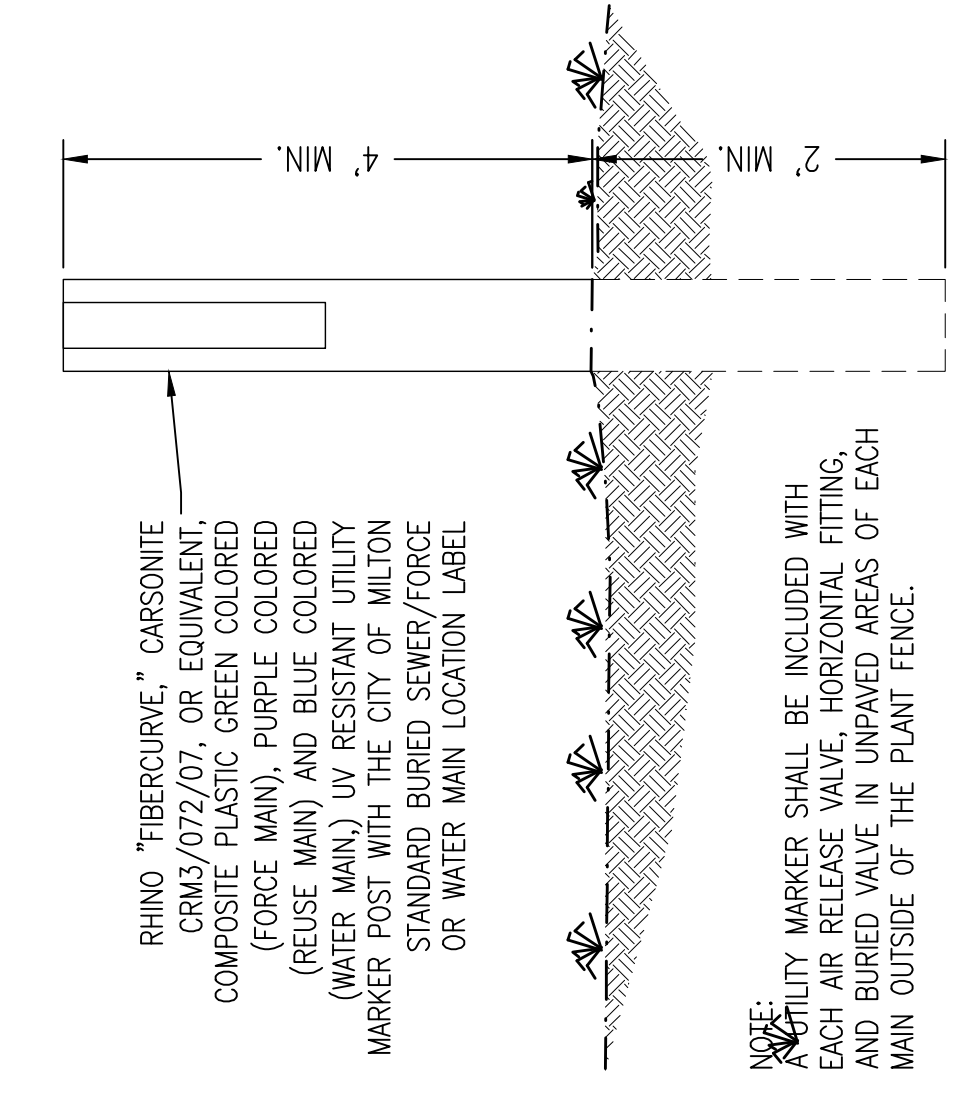
INDEX
125-001

SHEET
2 of 2

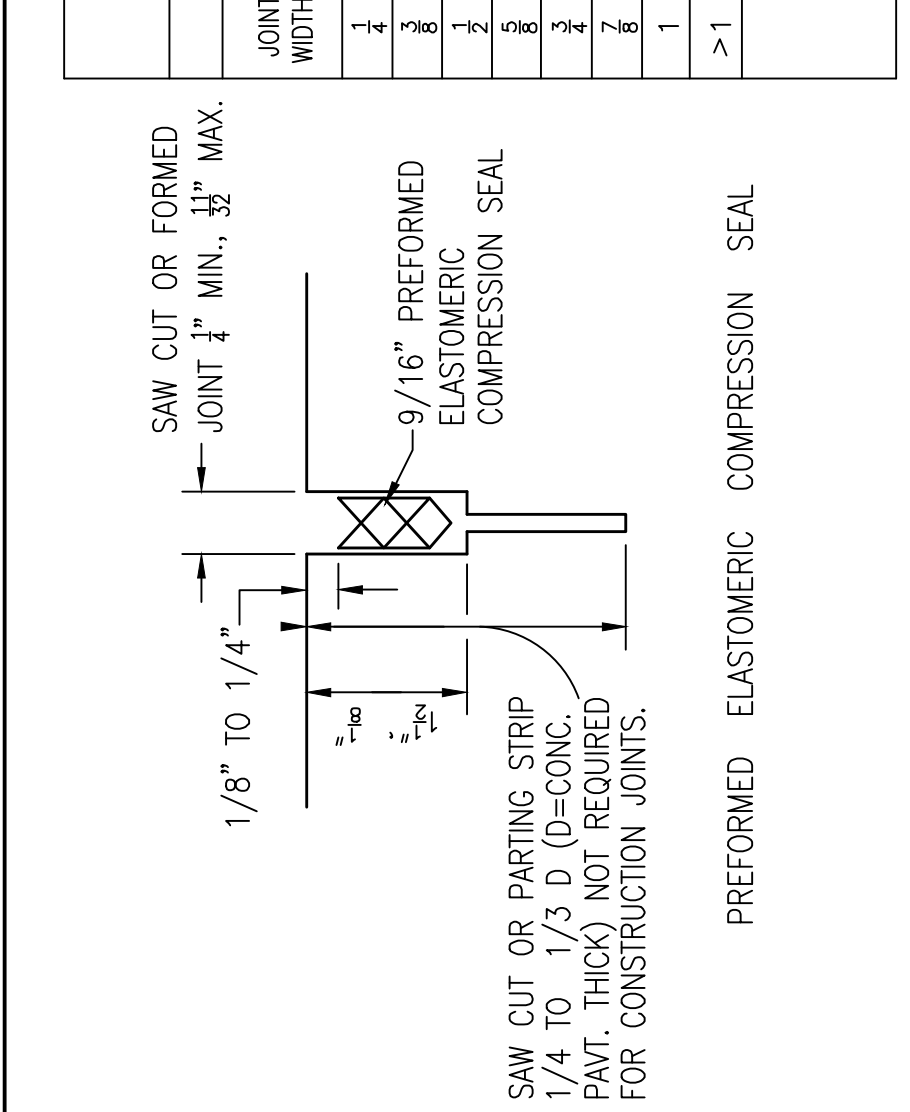
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314	
OTHER PIPE	CROSSINGS (1)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2)	<p>12 INCHES IS THE MINIMUM SEPARATION EXCEPT FOR GRAVITY SEWER. THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS THE PREFERRED.</p>
HORIZONTAL SEPARATION	<p>10 FT. PREFERRED 6 FT. MINIMUM (3)</p>
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT. MINIMUM
WATER MAIN	<p>ALTERNATE 3 FT. MINIMUM</p>

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. PLEASE REFER TO F.A.C. RULE 62-555.314 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

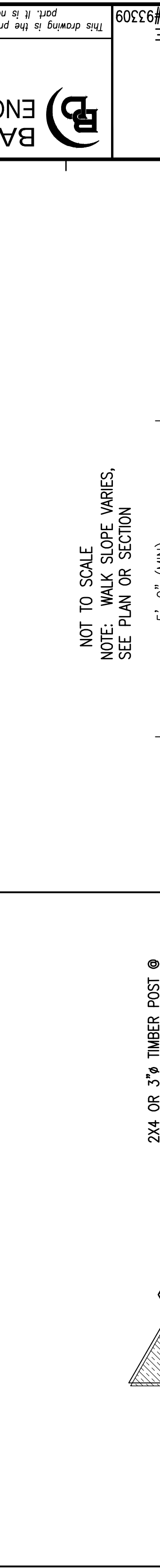
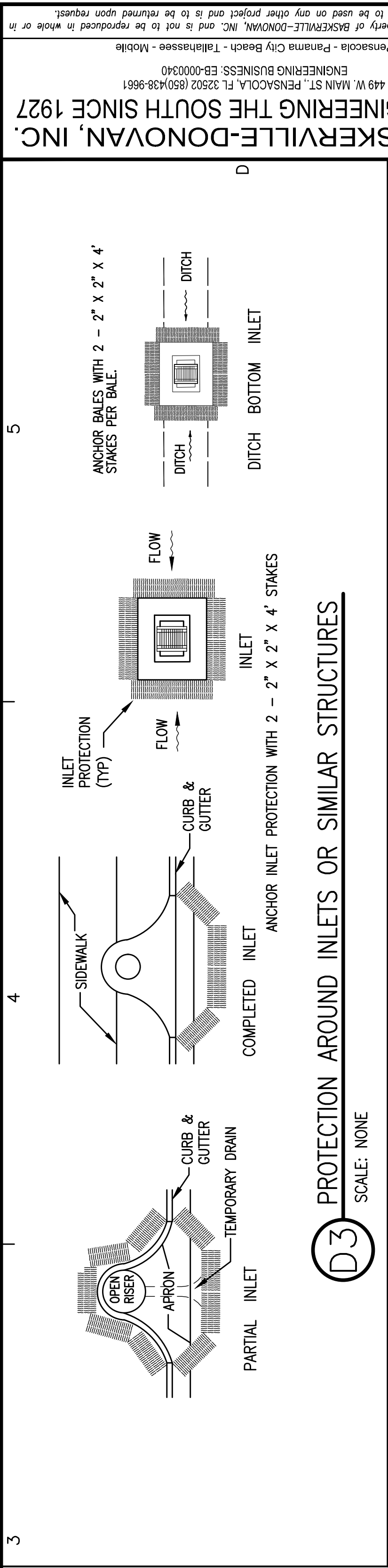
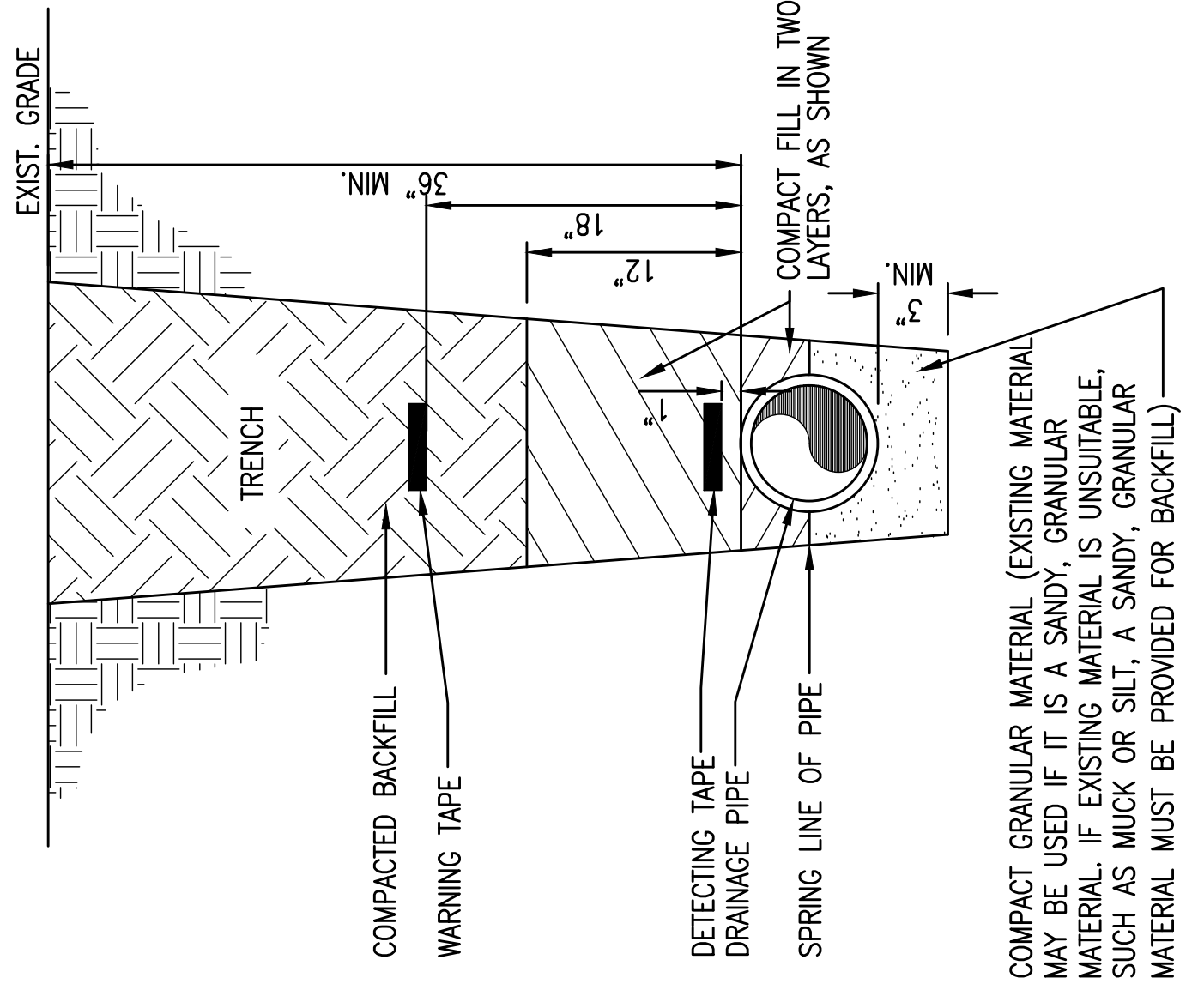
(C1) WATER MAIN OFFSET REQUIREMENT
SCALE: NONE



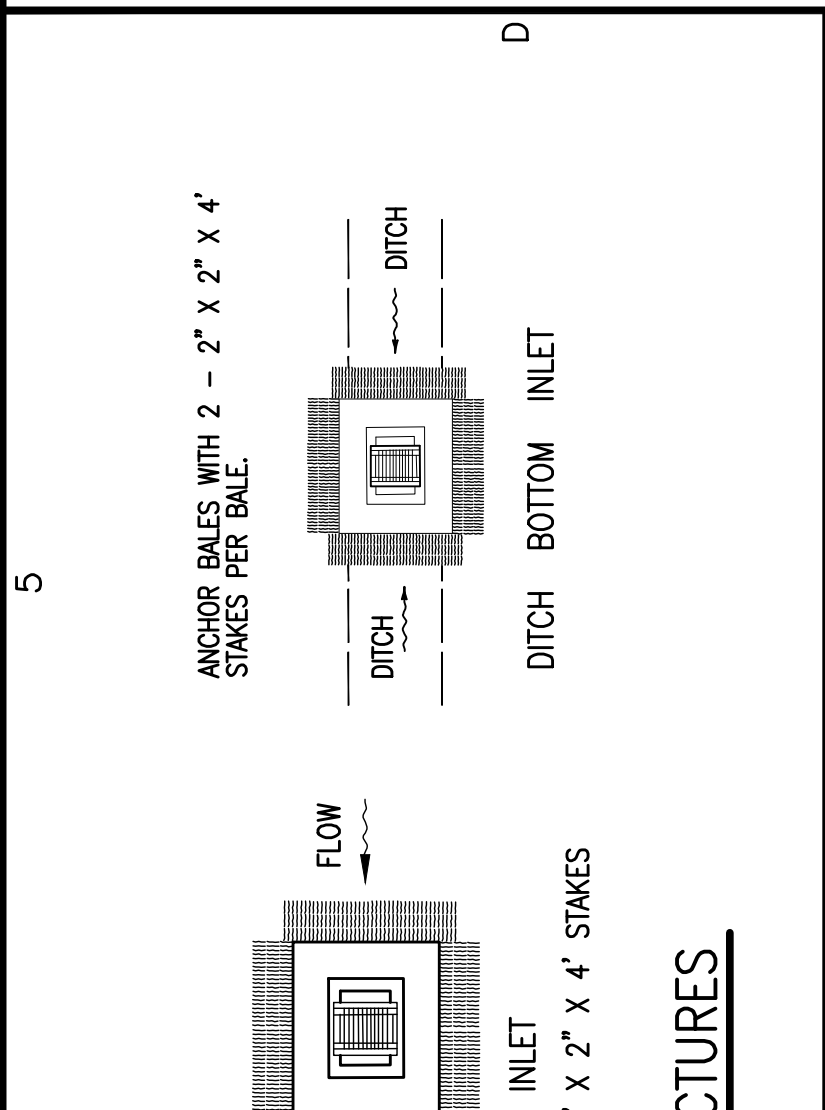
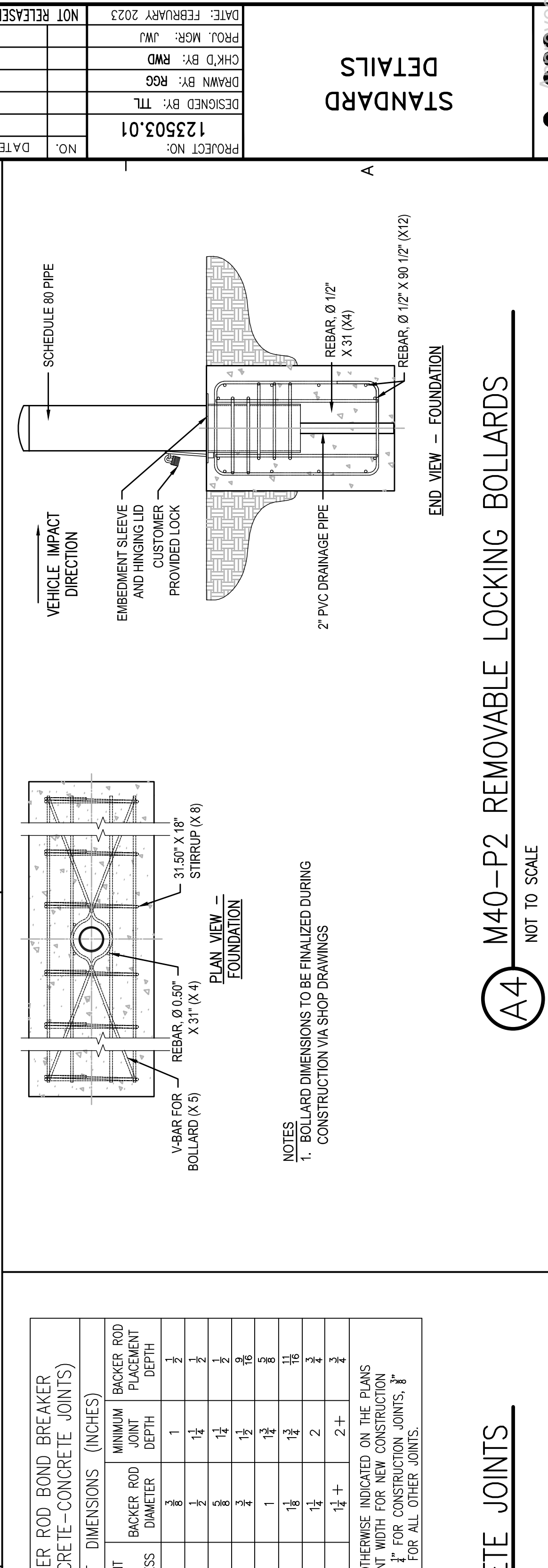
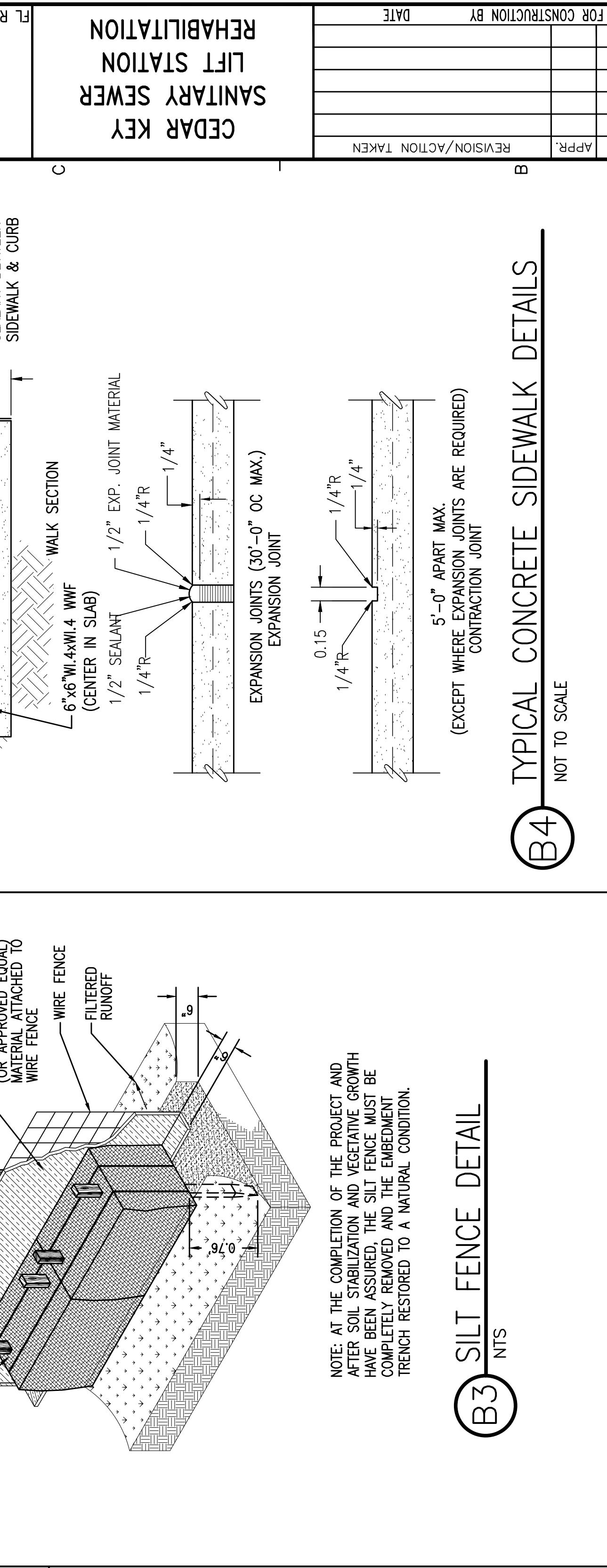
(B2) UTILITY MARKER DETAIL
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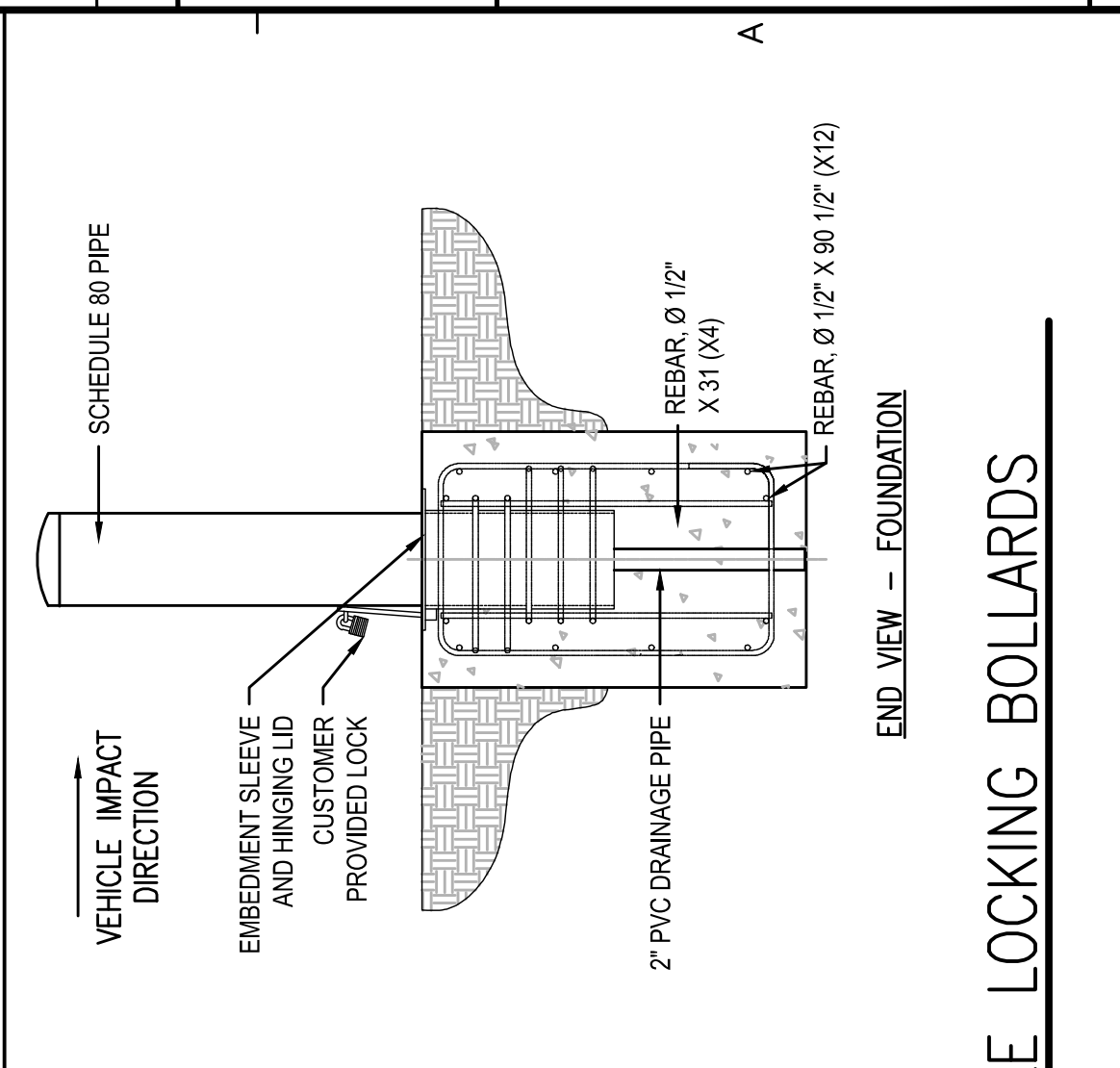
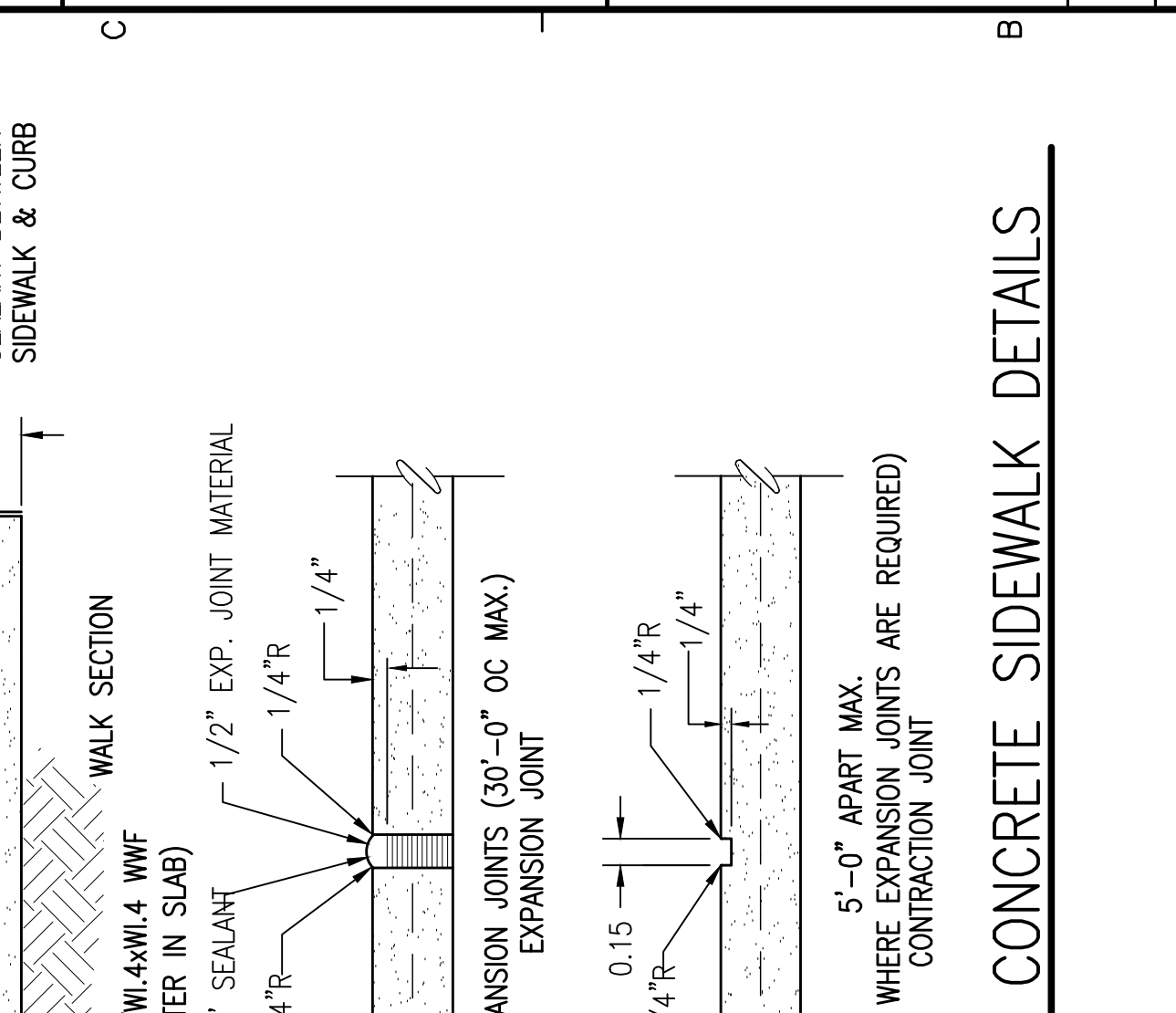
(A1) TYPICAL PIPE BEDDING
NOT TO SCALE



(B3) SILT FENCE DETAIL
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PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
SCALE: NONE

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PRO

February 29, 2024

Robert Webster
Florida Department of Transportation
1820 South Young Boulevard
Cheifland, FL 32626

Re: First Request for Additional Information (RAI)
Cedar Key Water and Sewer District
Utility Permit No.: 2024-H-296-00005

Questions/Comments received in RAI (issued 2/14/24):

1. Remove the fence from the FDOT Right of Way.
 - a. The fence was removed from FDOT right of way on the Lift Station 6 site
2. All items 4-inches high or higher within the clear zone must be shielded.
 - a. For Lift Station 6, three (3) removable traffic bollards, rated for 40 mph (M40-P2), were placed as close to the right of way line as possible while still shielding Lift Station 6 piping and valves.

Approved
2024-H-296-00005
Mark Hanna
3/25/2024



BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927

January 25, 2024

RE: Central Florida Electric Cooperative, Inc.
Utility Permitting
Lift Station Rehabilitation
BDI Project No. 123503.01

To Whom It May Concern,

Baskerville-Donovan, Inc. (BDI) is planning a construction project in the City of Cedar Key, Levy County, Florida that may affect your utility. Of specific concern is overhead electric utility that could be affected by Lift Station rehabilitation within the southern right-of-way of the intersection of S.R.24 and park street.

Attached is a project drawing of the intersection of concern, showing known utility locations and the proposed lift station rehabilitation location, which will be installed. If after reviewing this drawing, if you have additional information on utilities that will be affected in this location, we would greatly appreciate notification at your earliest convenience so that we may incorporate updated utility locates into our plans. There will be 48-hour notice prior to construction in order to allow for spot verification.

If you have any questions, please feel free to contact me at our Pensacola office. If this is not the proper address to send this type of letter, please let me know the correct address for future reference.

Sincerely,

BASKERVILLE-DONOVAN, INC.

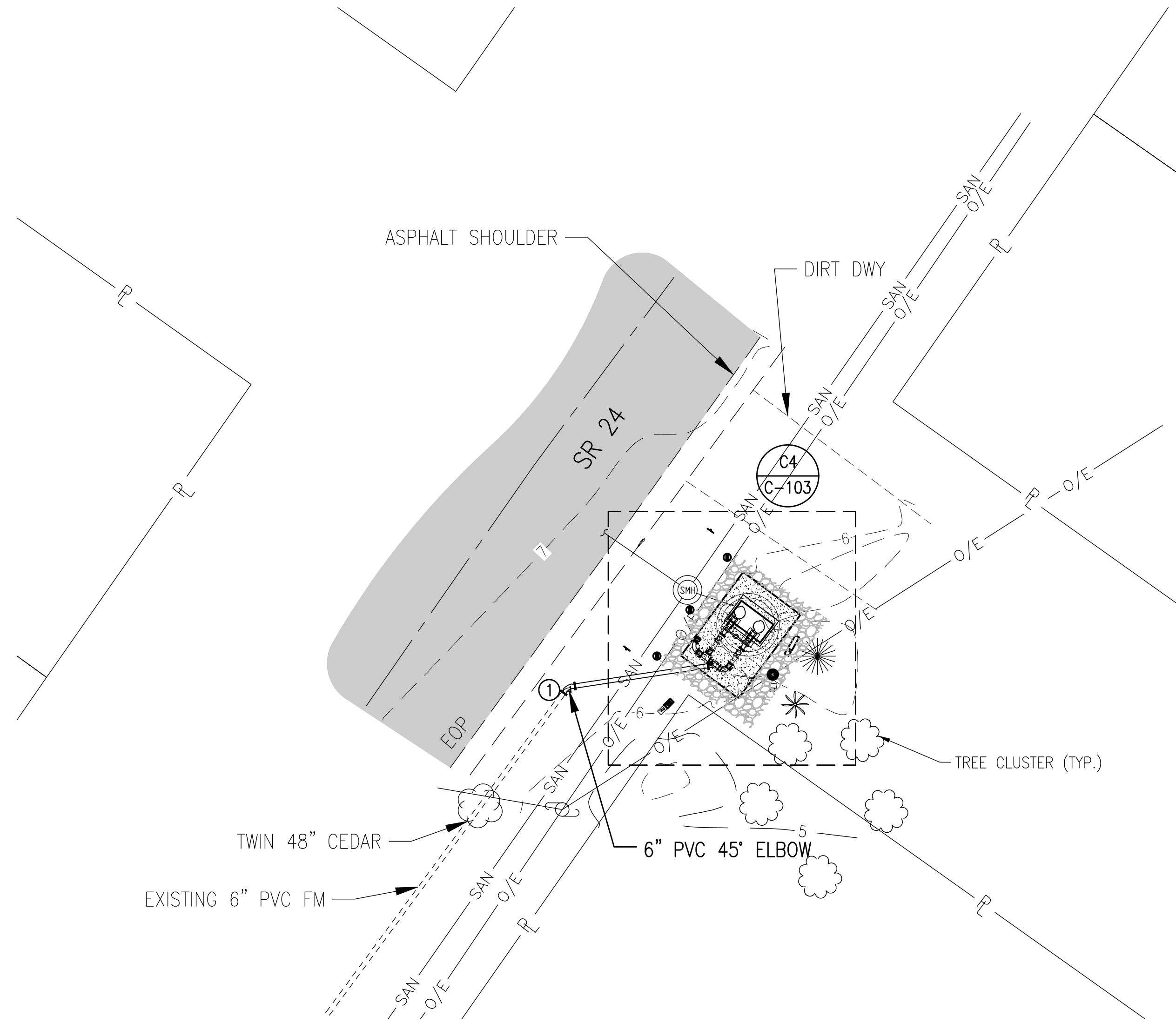
Jake Wiesner, E.I.

Attachments: Project drawing "C-103 – C-918"

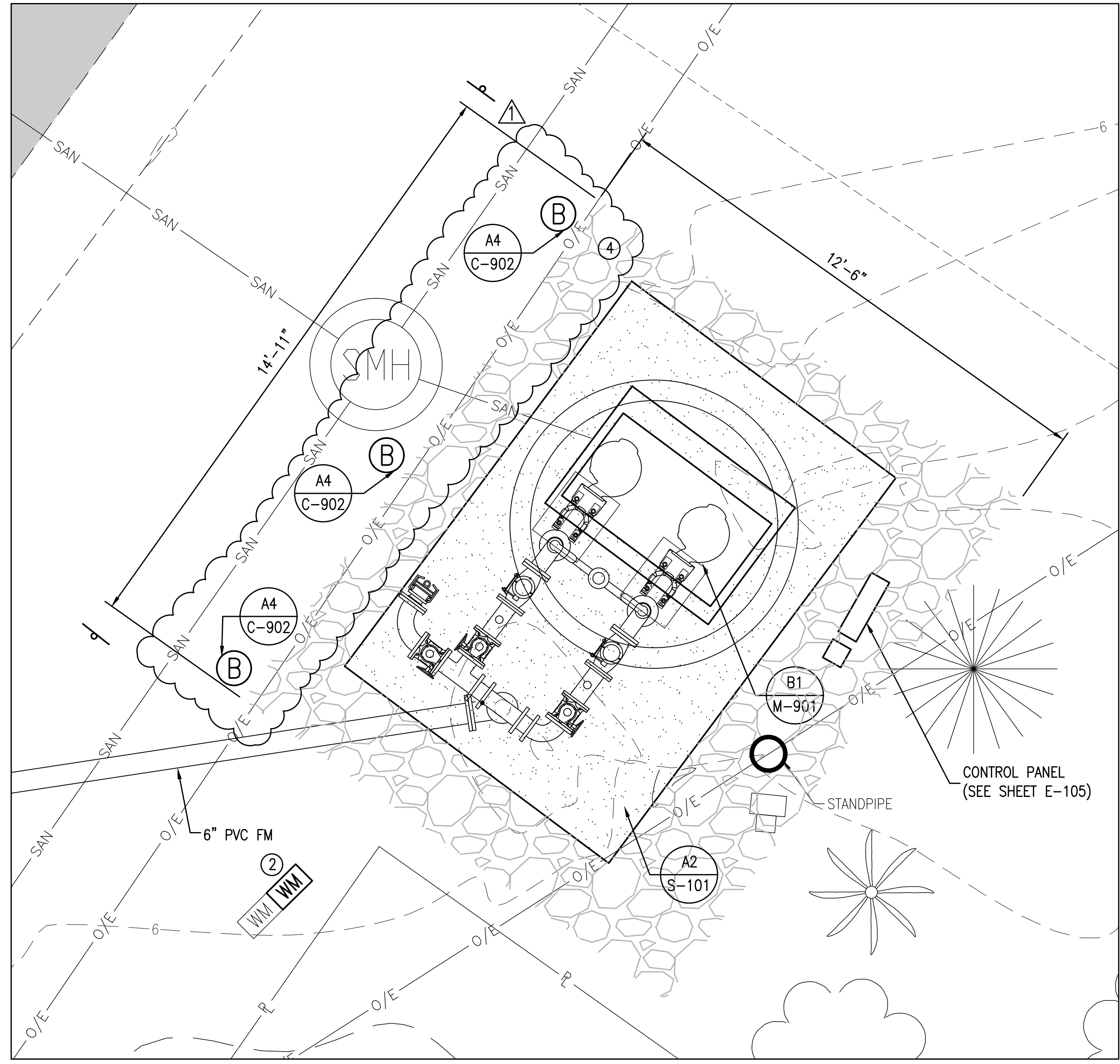
Approved
2024-H-296-00005
Mark Hanna
3/25/2024

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K:\1235 Cedar Key\123503.01 Sanitary Sewer Lift Station Rehabilitation\DWG\BID - FEB 2024\C-103 LS 6 Proposed Site Plan FDOTA.dwg, Apr 19, 2024, - 1:00:59PM, jwesner



B3 LS 6 PROPOSED SITE PLAN
SCALE: 1" = 10'
0 5' 10' 20'



C4 LS 6 PROPOSED SITE PLAN
SCALE: 1" = 2'
0 1' 2' 4'

- CONSTRUCTION KEY NOTES**
- ① CONNECT THE PROPOSED 6" DISCHARGE PIPING TO EXISTING 6" PVC FM. COORDINATE WITH OWNER WHEN MAKING THE CONNECTION
 - ② CONTRACTOR TO RELOCATE EXISTING WATER METER. CONTRACTOR TO FIELD LOCATE WATER METER WITH OWNER.
 - ③ THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE ADEQUATE CLEARANCE ROOM IS PROVIDED ABOVE THE LIFT STATION HATCH TO INSTALL PUMPS AND PIPING.
 - ④ 6" OF GRANITE #57 STONE PLACED ON MIRAFI 140-N GEOTEXTILE FABRIC OR APPROVED EQUAL.
 - ⑤ CONTRACTOR TO COORDINATE WITH THE OWNER WHEN CLOSING THE VALVES TO MAKE SURE THE CLOSED VALVES DO NOT IMPACT THE COLLECTION SYSTEM OPERATION.

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TYLER T. LEE
FL Reg. Engineer #33309

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	1	4/24	TTL	ADDENDUM 1

**LS 6
PROPOSED SITE
PLAN**

C-103

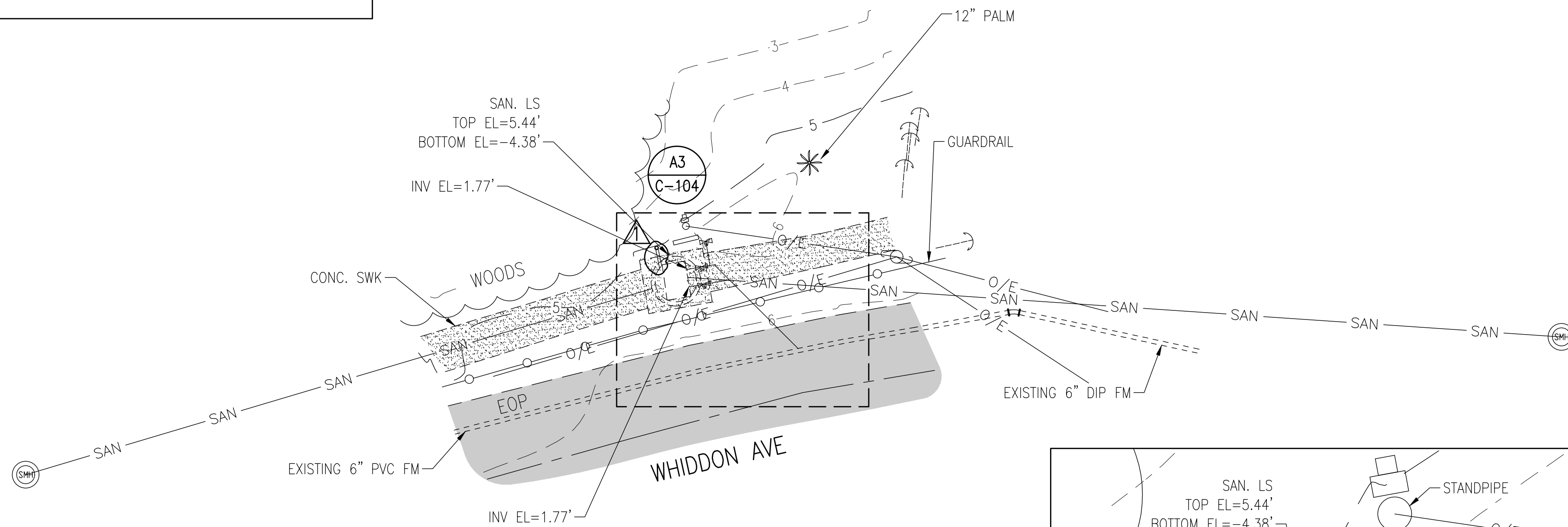
1
LEGEND



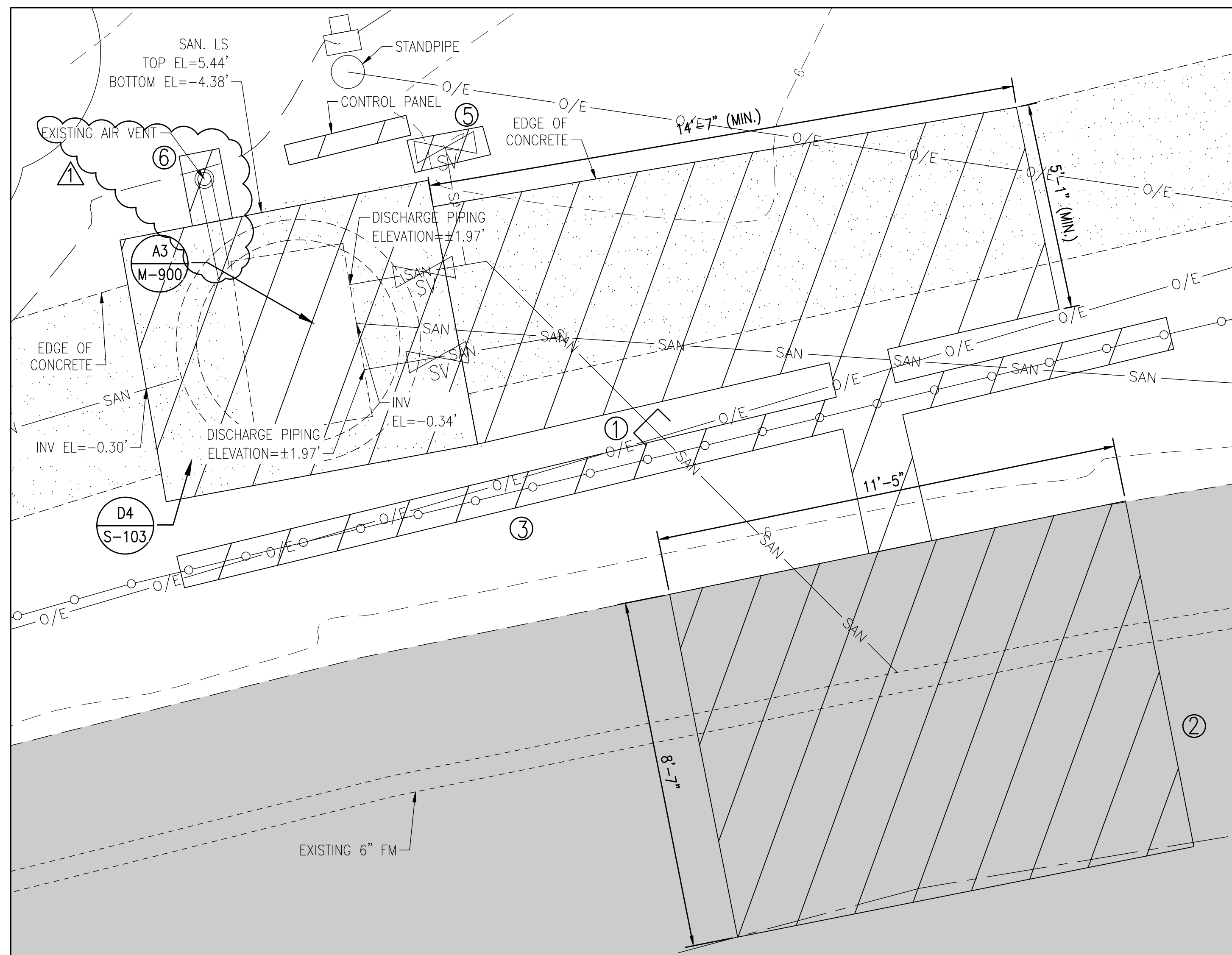
ITEMS TO DEMOLISH

5
CONSTRUCTION KEY NOTES:

- ① CONTRACTOR TO CUT EXISTING FORCE MAIN AND INSTALL A 4" MJ PLUG. CONTRACTOR TO FIELD VERIFY EXISTING FORCE MAIN SIZE BEFORE INSTALLING MJ PLUG.
- ② CONTRACTOR TO SAW CUT EXISTING ASPHALT AS NEEDED TO INSTALL 6" TAPPING SLEEVE AND VALVE. SEE SHEET C-105
- ③ CONTRACTOR TO REMOVE AND PROTECT GUARDRAIL AS NEEDED TO INSTALL 6" FM
- ④ ENGINEER AND OWNER TO REVIEW BYPASSING PLAN WITH CONTRACTOR TO SEE IF ADDITIONAL ISOLATION VALVES ARE REQUIRED TO ISOLATE THE LIFT STATION FROM THE SYSTEM.
- ⑤ CONTRACTOR TO DEMO AND REMOVE EXISTING PUMP OUT PIPING, VALVES, AND FITTINGS.
- ⑥ CONTRACTOR TO USE EXISTING AIR VET PENETRATION TO INSTALL NEW 4" AIR VENT. SEE SHEET C-105



C3 LS 7 EXISTING & DEMOLITION PLAN
SCALE: 1" = 10' 0 5' 10' 20'



A4 LS 7 EXISTING & DEMOLITION PLAN
SCALE: 1" = 2' 0 1' 2' 4'

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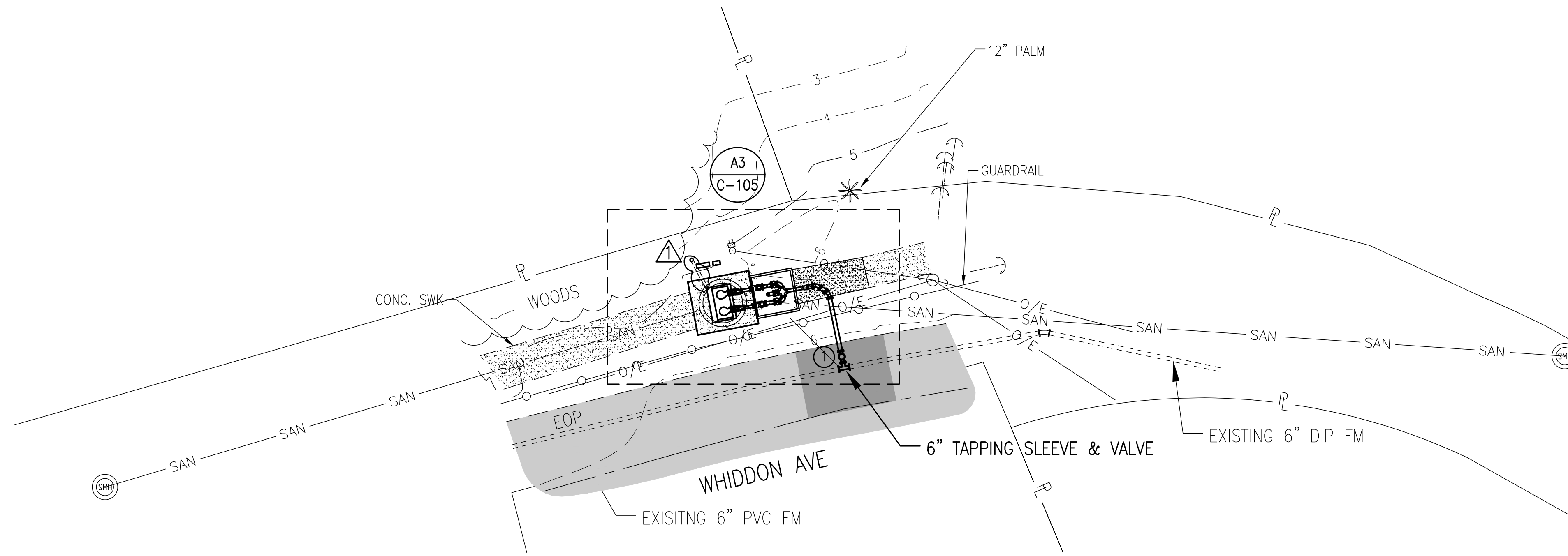
TYLER T. LEE
FL Reg. Engineer #83309

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

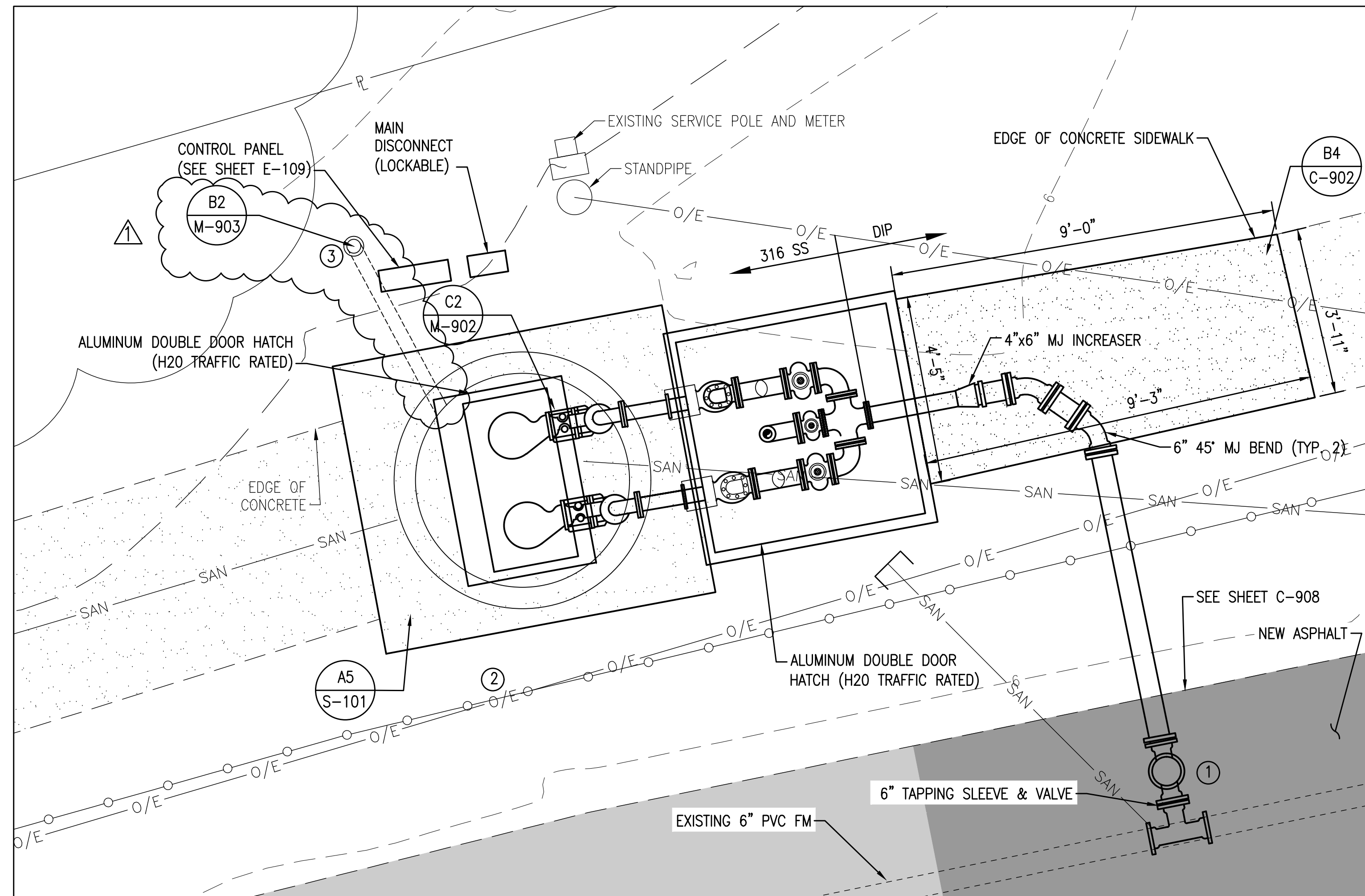
PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	1	4/24	TTL	ADDENDUM 1
DESIGNED BY:				
DRAWN BY: RCG				
CHKD BY: RWD				
PROJ. MGR: JWL				
DATE: FEBRUARY 2023				

**LS 7
EXISTING & DEMOLITION
PLAN**

C-104



C3 LS 7 PROPOSED SITE PLAN
 SCALE: 1" = 10' 0' 5' 10' 20'



A3 LS 7 PROPOSED SITE PLAN
 SCALE: 1" = 2' 0' 1' 2' 4'

CONSTRUCTION KEY NOTES:

- ① CONNECT THE PROPOSED 6" DISCHARGE PIPING TO EXISTING 6" PVC FM. COORDINATE WITH OWNER WHEN MAKING THE CONNECTION. CONTRACTOR TO FIELD VERIFY FORCE MAIN SIZE, MATERIAL, AND LOCATION BEFORE INSTALLING 6" TAPPING SLEEVE AND VALVE.
- ② CONTRACTOR TO REINSTALL EXISTING GUARDRAILS.
- ③ CONTRACTOR TO FIELD VERIFY LOCATION OF J-VENT WITH OWNER.

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 FL Reg. Engineer #33309

**CEDAR KEY
 SANITARY SEWER
 LIFT STATION
 REHABILITATION**

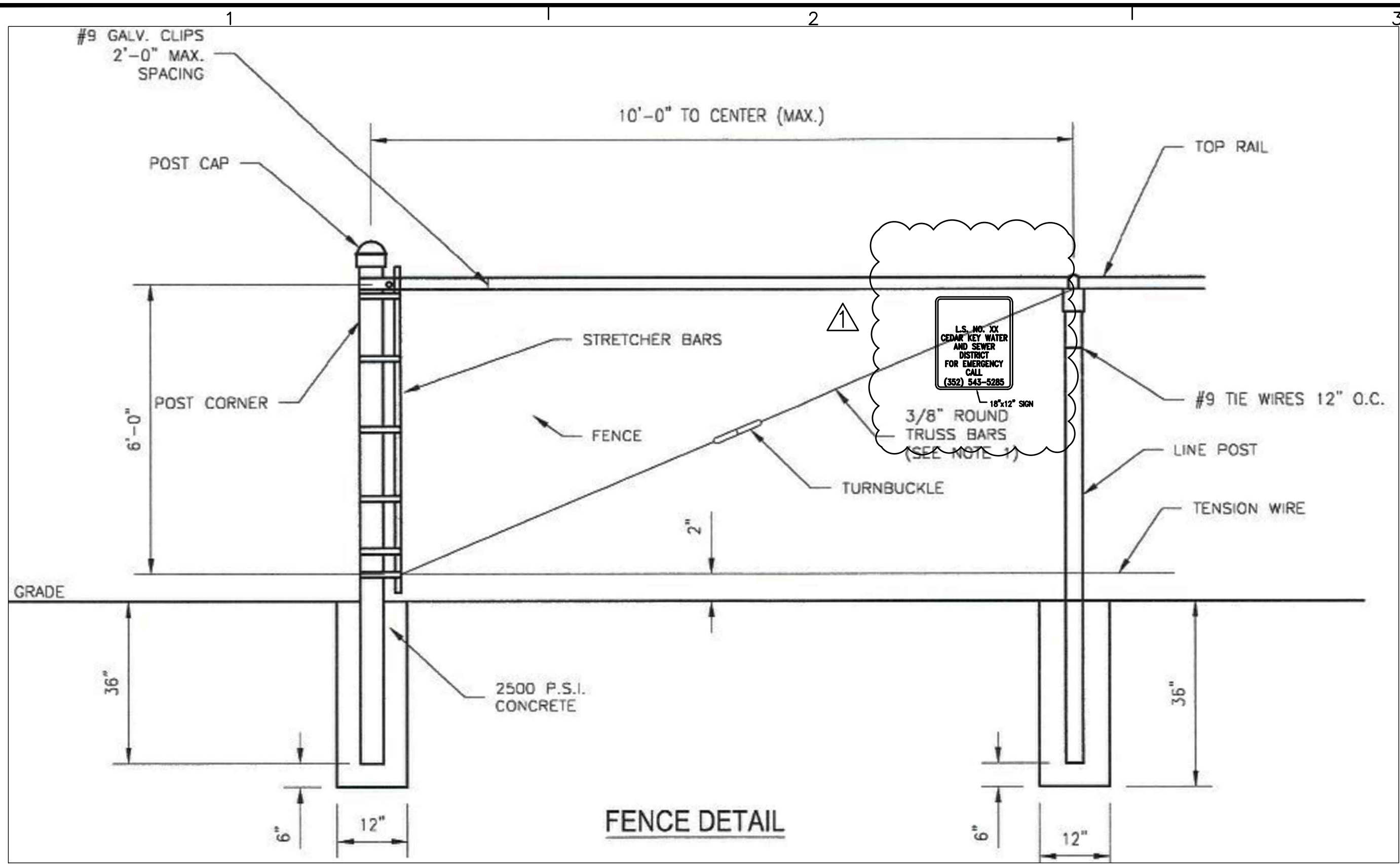
PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	1	4/24	TTL	ADDENDUM 1

DESIGNED BY: TTL	DATE: FEBRUARY 2023
DRAWN BY: RCG	NOT RELEASED FOR CONSTRUCTION BY
CHKD BY: RWD	DATE
PROJ. MGR.: JMW	

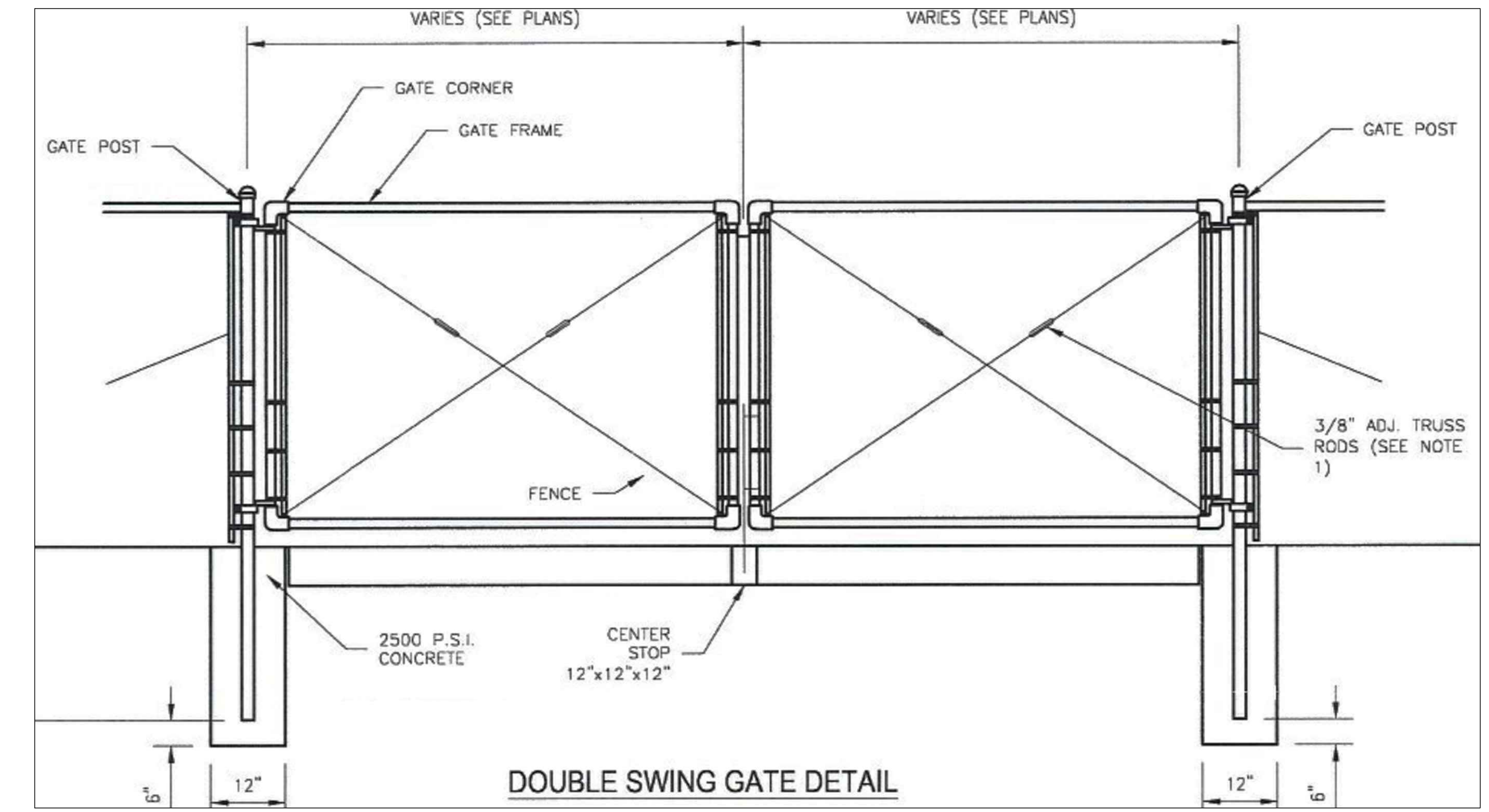
**LS 7
 PROPOSED SITE
 PLAN**

C-105

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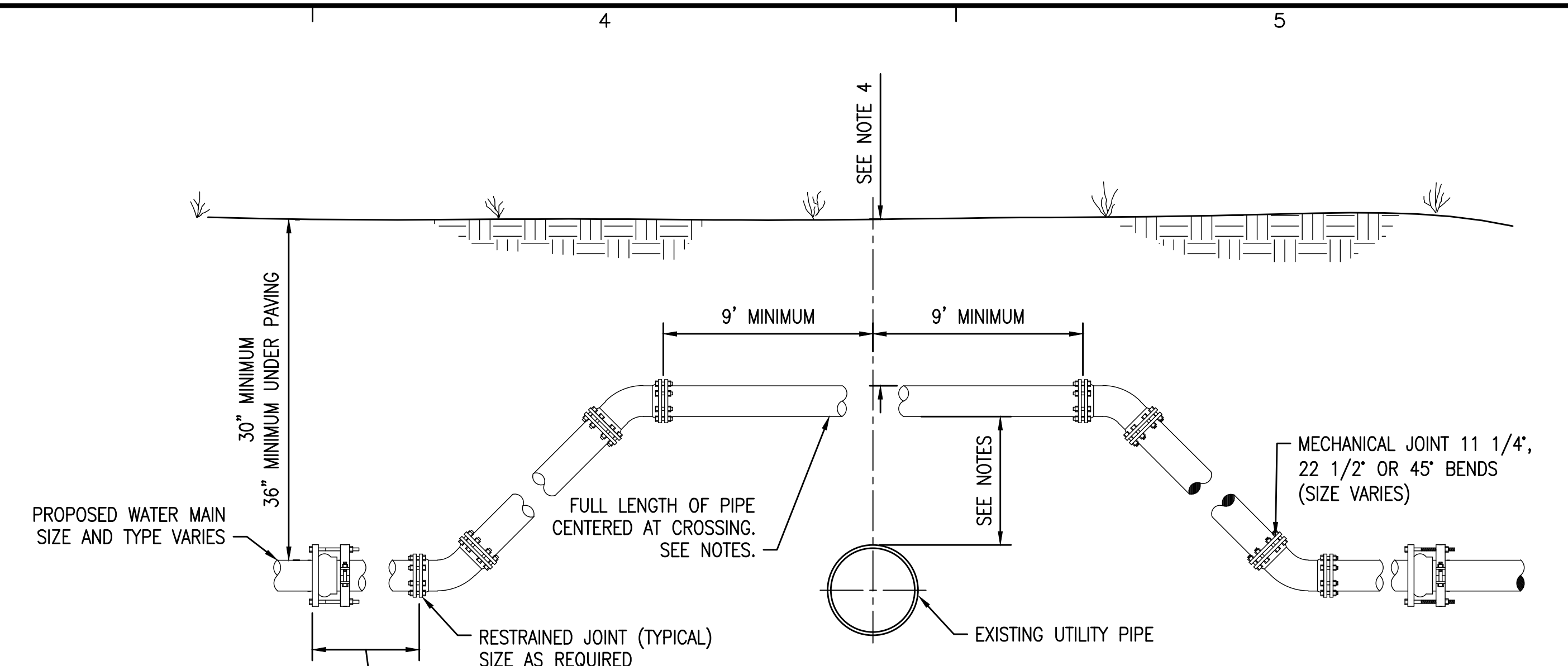
FENCE DETAIL



DOUBLE SWING GATE DETAIL

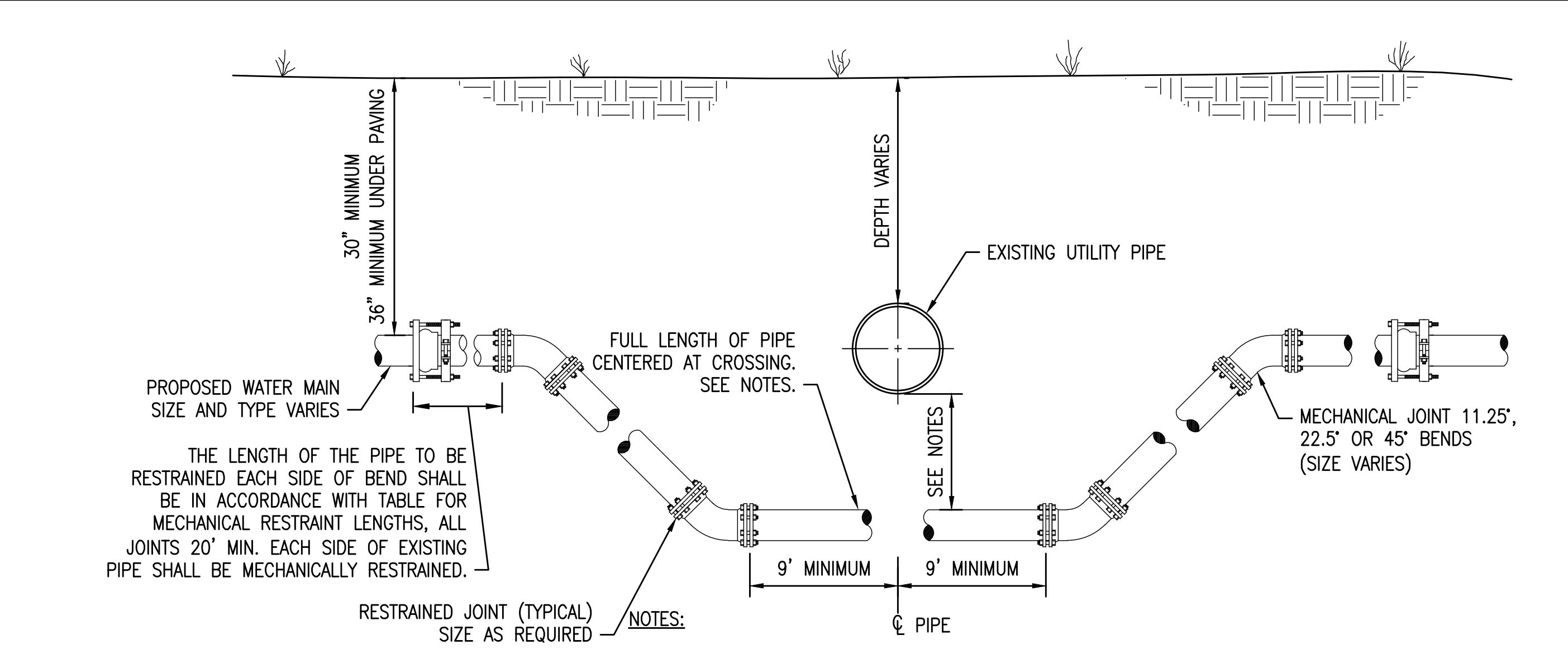
- FENCE/GATE NOTES:**
- 1.) TRUSS BARS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A CORNER POST ONLY.
 - 2.) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
 - 3.) FENCING SHALL BE BLACK VINYL COATED.
 - 4.) TYPICAL GATE IS 16'. VERIFY WITH OWNER PRIOR TO CONSTRUCTION.

A1 CHAIN LINK FENCE DETAIL
NOT TO SCALE



- THE LENGTH OF THE PIPE TO BE RESTRAINED EACH SIDE OF BEND SHALL BE IN ACCORDANCE WITH TABLE FOR MECHANICAL RESTRAINT LENGTHS, ALL JOINTS 20' MIN. EACH SIDE OF EXISTING PIPE SHALL BE MECHANICALLY RESTRAINED.
- NOTES:**
1. IF EXISTING UTILITY PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED.
 2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER, 18 INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPRACTICAL AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
 3. LOCATING WIRING REQUIRED.
 4. DEPTH OF BURY TO BE 36" MINIMUM IN PAVED AREAS MEASURED FROM FINISHED GRADE. DEPTH OF BURY TO BE 30" MINIMUM IN UNPAVED AREAS.

C4 ADJUSTMENT OVER EXISTING UTILITIES
SCALE: NONE



- THE LENGTH OF THE PIPE TO BE RESTRAINED EACH SIDE OF BEND SHALL BE IN ACCORDANCE WITH TABLE FOR MECHANICAL RESTRAINT LENGTHS, ALL JOINTS 20' MIN. EACH SIDE OF EXISTING PIPE SHALL BE MECHANICALLY RESTRAINED.
- NOTES:**
1. IF EXISTING UTILITY PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED.
 2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER, 18 INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPRACTICAL AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL LENGTH OF PIPE SHALL BE CENTERED UNDER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
 3. LOCATING WIRING REQUIRED.

A4 ADJUSTMENT UNDER EXISTING UTILITIES
SCALE: NONE

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TYLER T. LEE
FL Reg. Engineer #033009

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	1	4/24	TTL	ADDENDUM 1

**STANDARD
DETAILS**

DATE: FEBRUARY 2023
NOT RELEASED FOR CONSTRUCTION BY: _____ DATE: _____

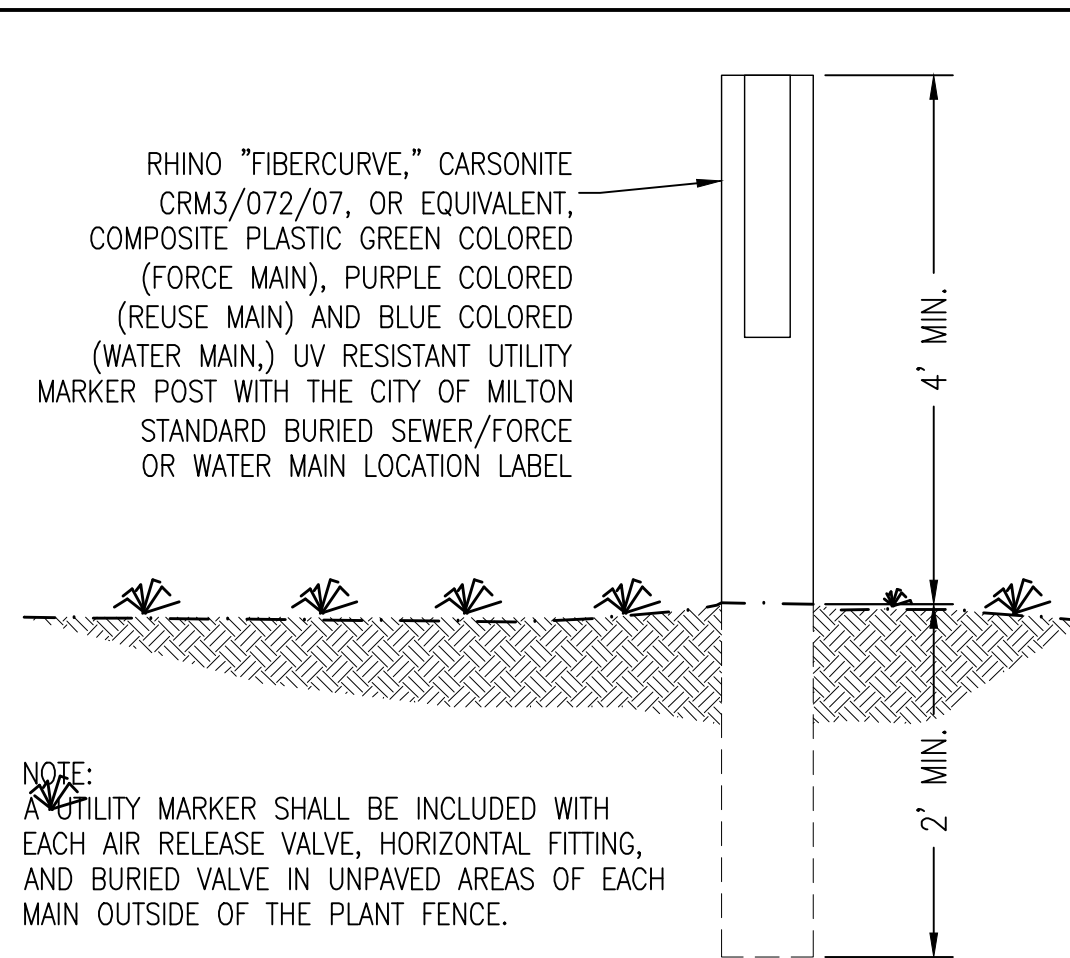
C-900

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

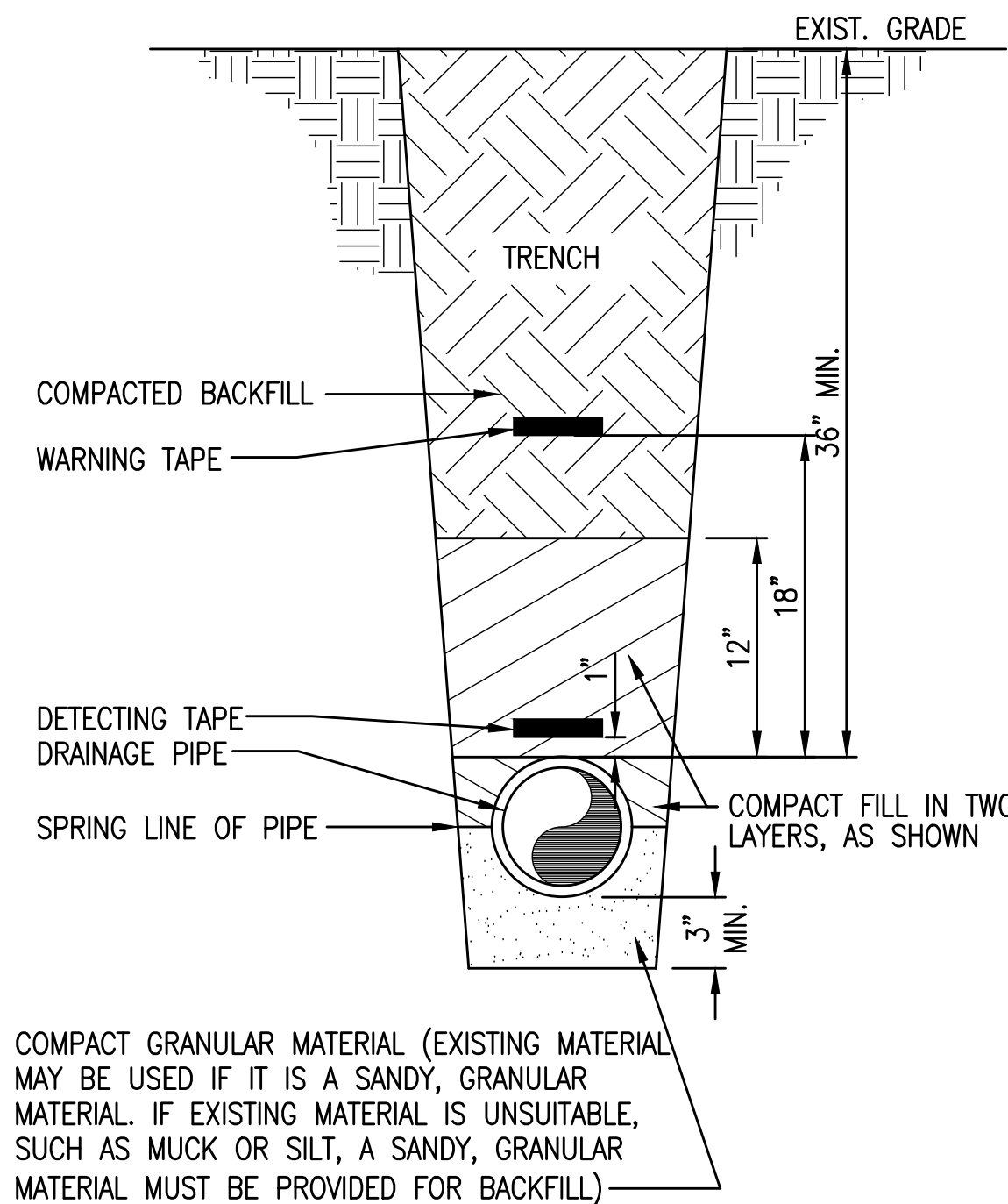
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2)	<p>WATER MAIN 10 FT PREFERRED 6 FT. MINIMUM (3)</p>	<p>WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS THE PREFERRED.</p>	<p>ALTERNATE 3 FT. MINIMUM</p>
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT. MINIMUM	—	—

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. PLEASE REFER TO F.A.C. RULE 62-555.314 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

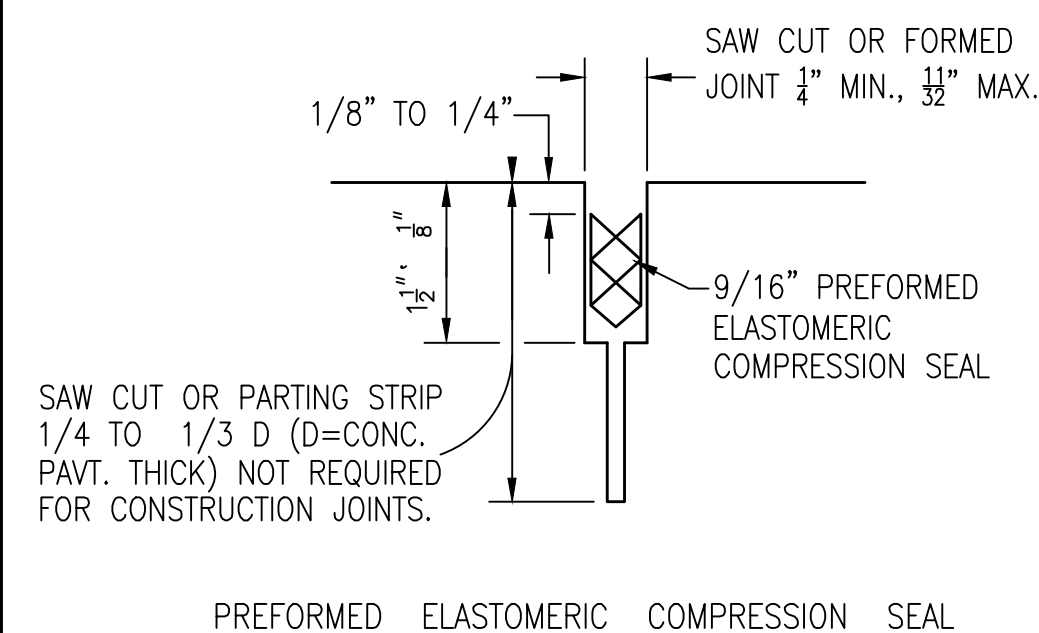
C1 WATER MAIN OFFSET REQUIREMENT
SCALE: NONE



B2 UTILITY MARKER DETAIL
NOT TO SCALE



A1 TYPICAL PIPE BEDDING
NOT TO SCALE

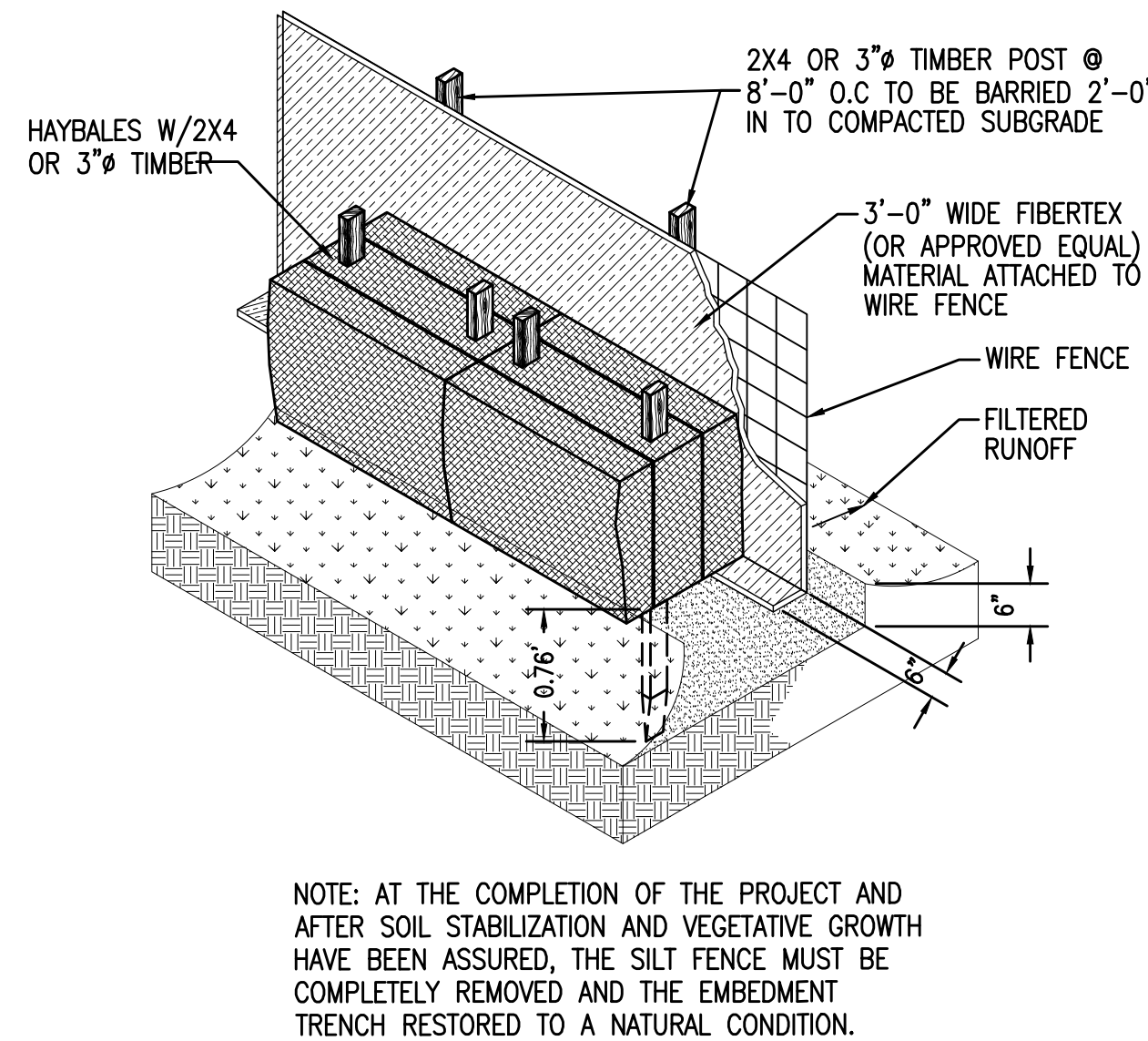


A3 CONCRETE-CONCRETE JOINTS
NOT TO SCALE

BACKER ROD BOND BREAKER (CONCRETE-CONCRETE JOINTS)				
JOINT DIMENSIONS (INCHES)				
JOINT WIDTH	SEALANT BEAD THICKNESS	BACKER ROD DIAMETER	MINIMUM JOINT DEPTH	BACKER ROD PLACEMENT DEPTH
1/4	1/4	3/8	1	1/2
3/8	1/4	1/2	1 1/2	1/2
1/2	1/4	3/4	1 1/2	1/2
5/8	5/16	3/4	1 1/2	5/16
3/4	3/8	1	1 1/2	3/8
7/8	7/16	1 1/8	1 1/2	11/16
1	1/2	1 1/4	2	3/4
>1	1/2	1 1/2 +	2 +	3/4

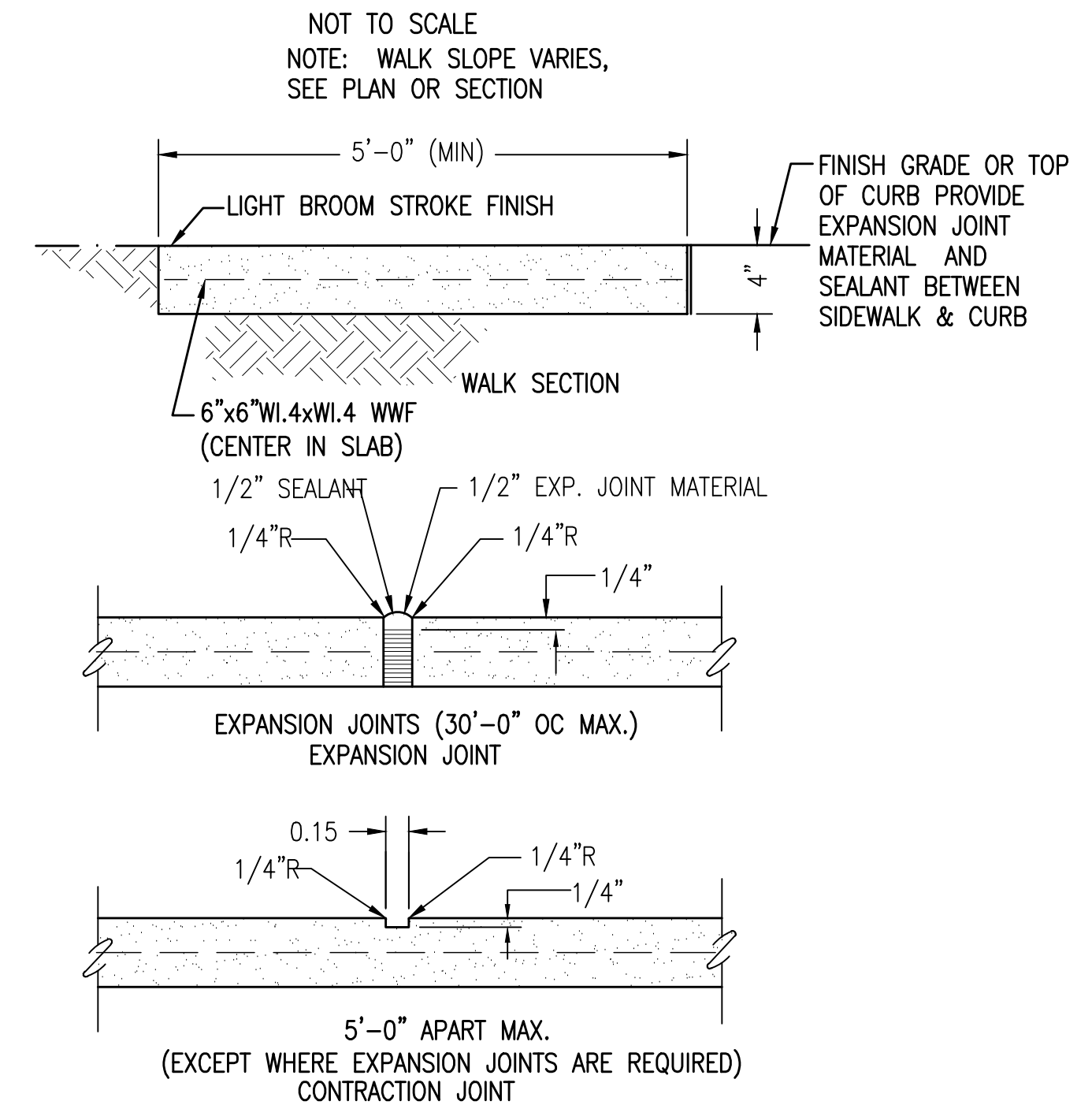
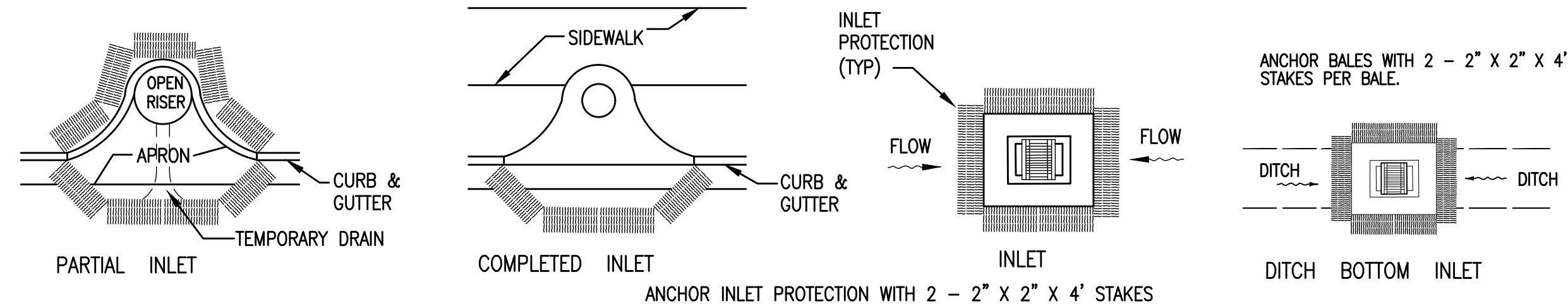
UNLESS OTHERWISE INDICATED ON THE PLANS THE JOINT WIDTH FOR NEW CONSTRUCTION WILL BE 1/2" FOR CONSTRUCTION JOINTS, 3/8" FOR ALL OTHER JOINTS.

B3 SILT FENCE DETAIL
NTS

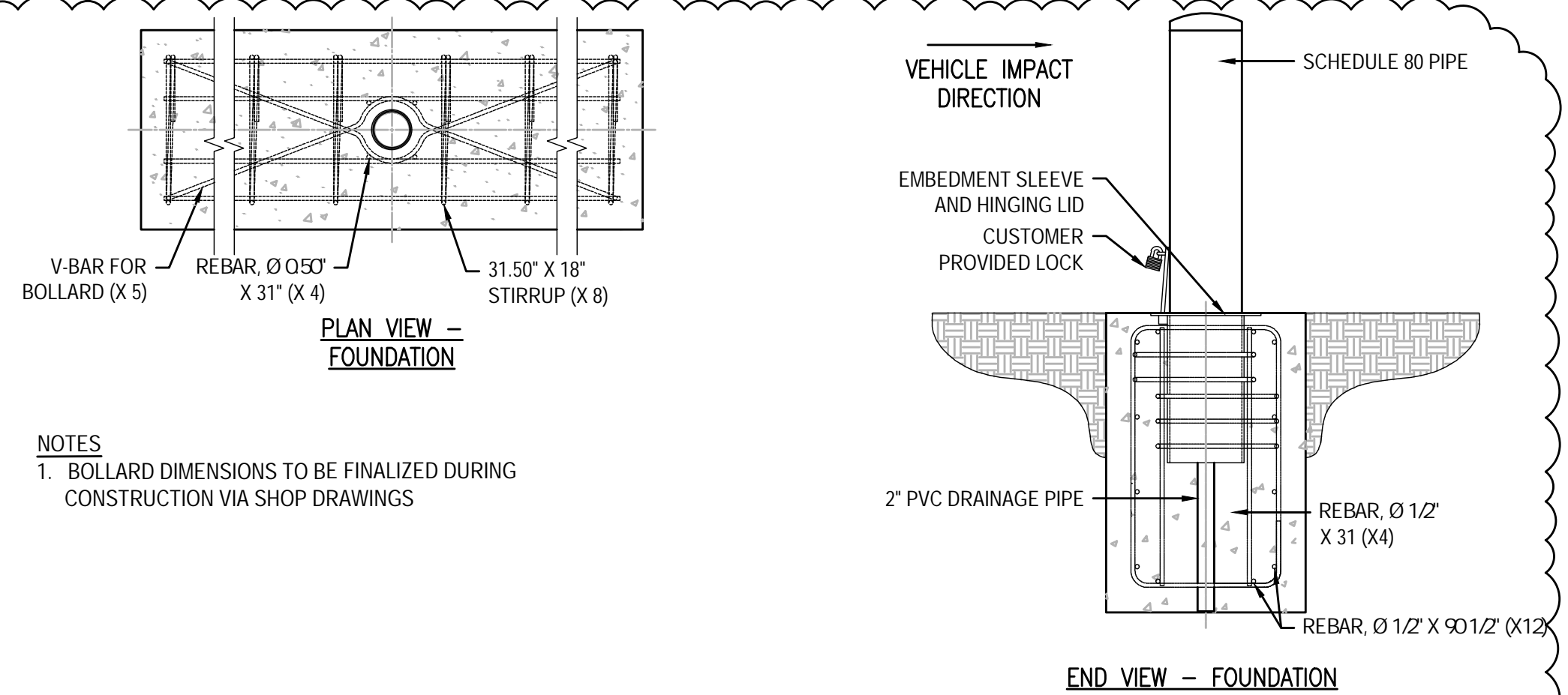


NOTE: AT THE COMPLETION OF THE PROJECT AND AFTER SOIL STABILIZATION AND VEGETATIVE GROWTH HAVE BEEN ASSURED, THE SILT FENCE MUST BE COMPLETELY REMOVED AND THE EMBEDMENT TRENCH RESTORED TO A NATURAL CONDITION.

D3 PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
SCALE: NONE



B4 TYPICAL CONCRETE SIDEWALK DETAILS
NOT TO SCALE



NOTES
1. BOLLARD DIMENSIONS TO BE FINALIZED DURING CONSTRUCTION VIA SHOP DRAWINGS

A4 M40-P2 REMOVABLE LOCKING BOLLARDS
NOT TO SCALE

PROJECT NO.	NO.	DATE	APPR.	TTL	REVISION/ACTION TAKEN
123503.01	1	4/24			ADDENDUM 1

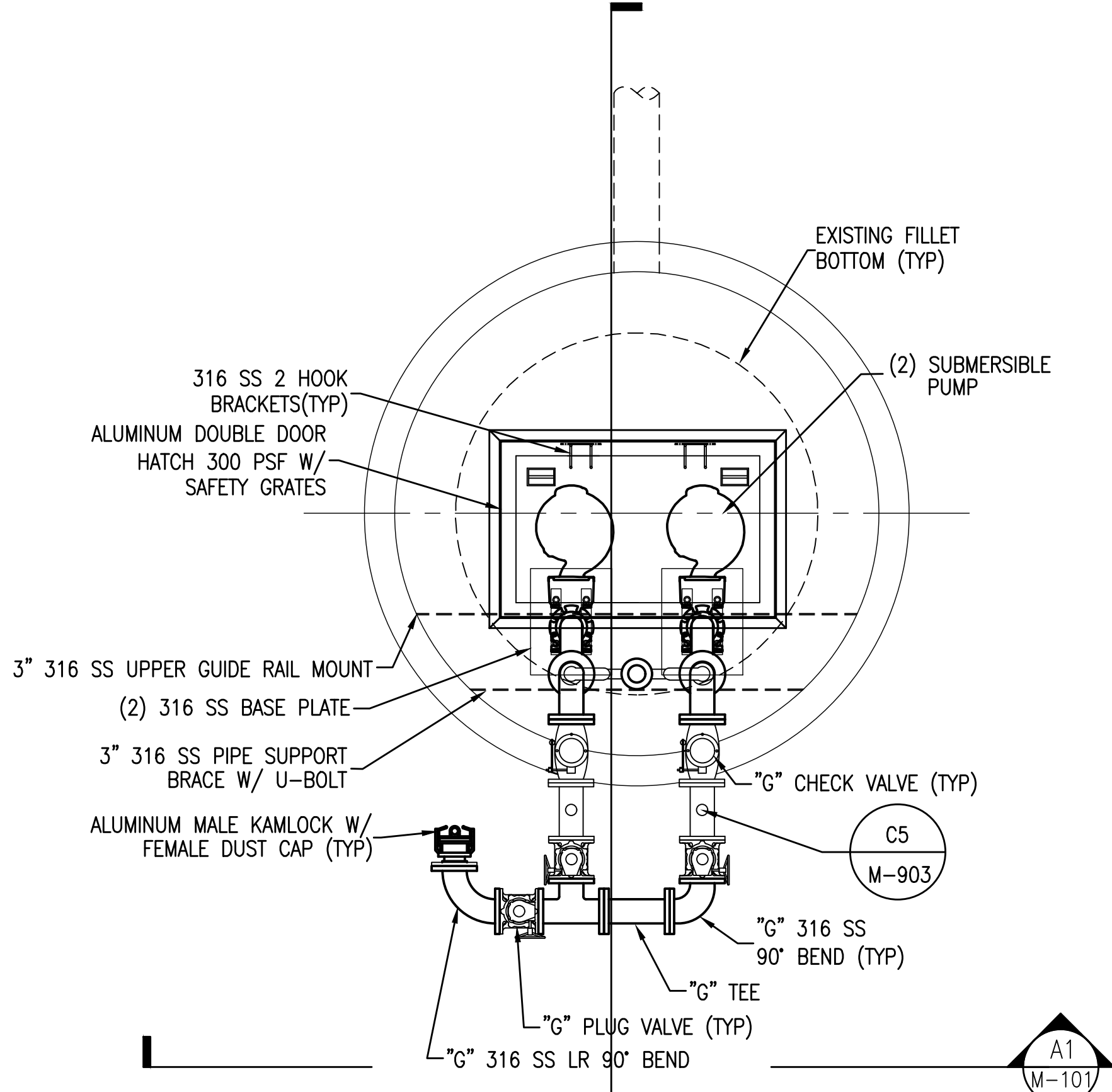
DESIGNED BY: TTL
DRAWN BY: RGD
CHK'D BY: RWD
PROJ. MGR.: JMW
DATE: FEBRUARY 2023

K:\1235 Cedar Key\123503.01 Sanitary Sewer Lift Station Rehabilitation\DWG\BID - FEB 2024\M-901.dwg, Apr 22, 2024 - 7:38:46AM, jwiesner

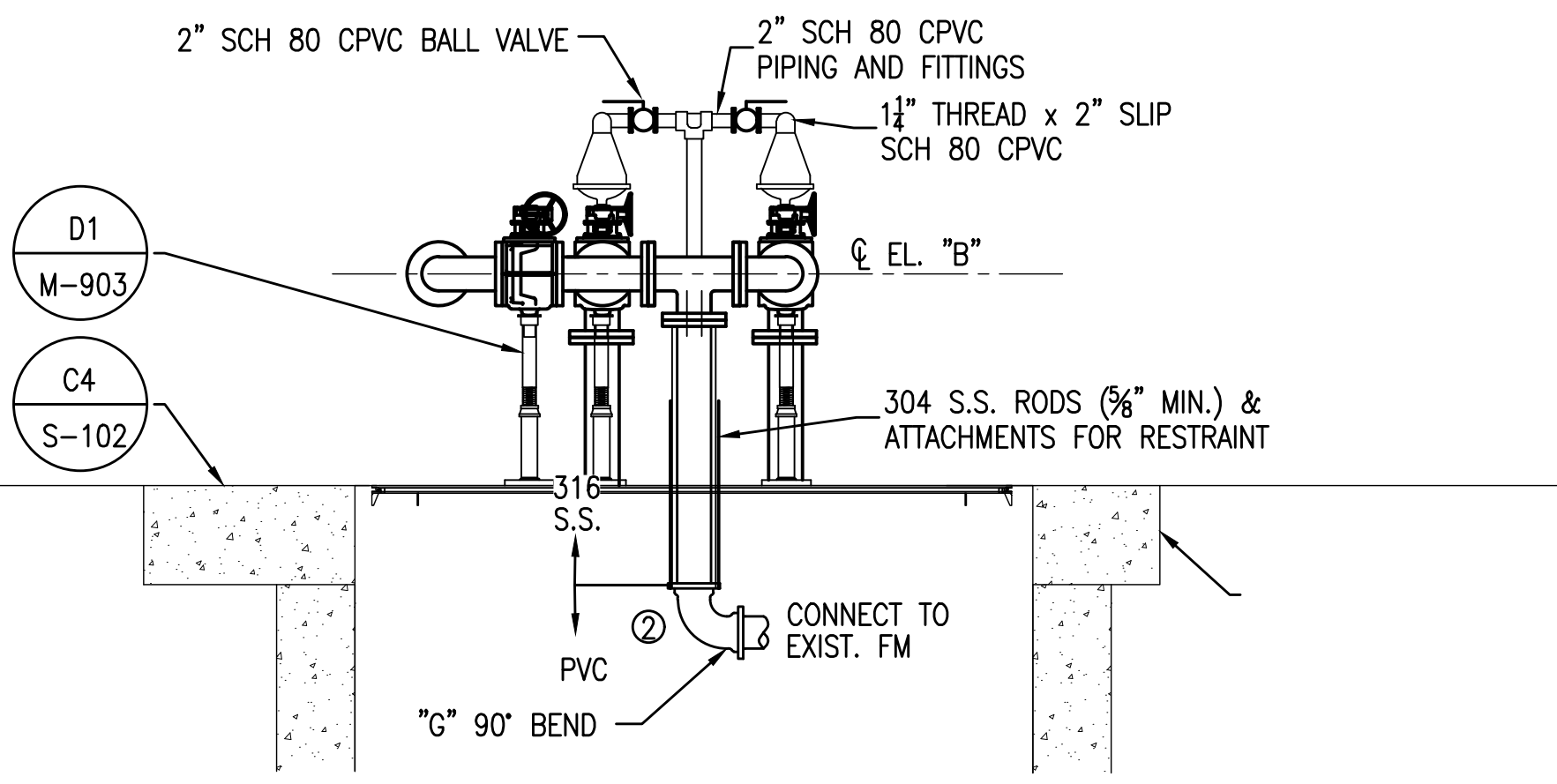
CONSTRUCTION KEY NOTES:

- ① CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PIPING, FITTINGS & VALVES ABOVE THE HDPE/316 S.S. TRANSITION FITTING.
- ② CONTRACTOR TO ROTATE 90° BEND AS REQUIRED TO CONNECT TO THE EXISTING FORCE MAIN

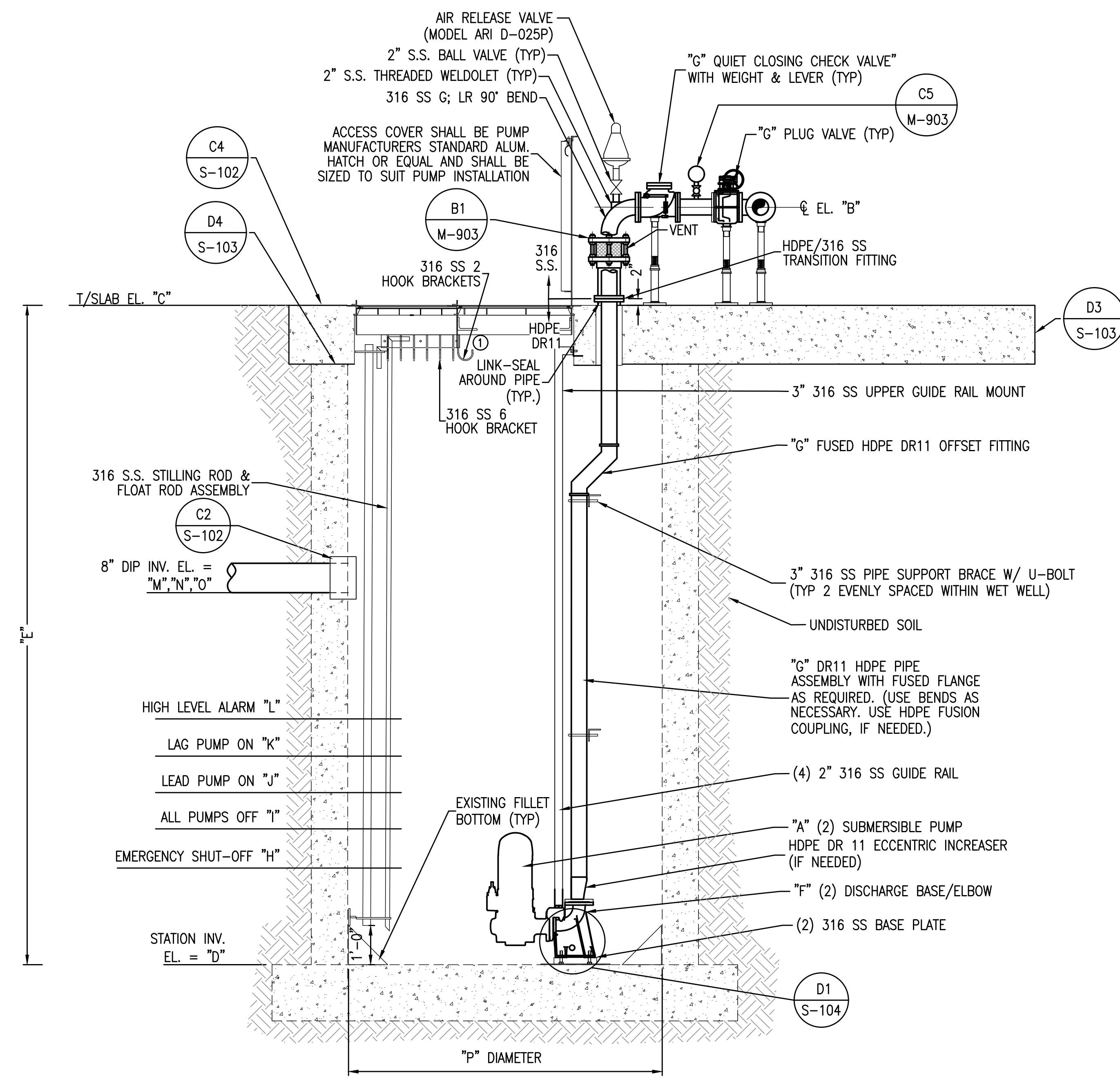
PUMPING STATION IMPROVEMENT SCHEDULE																			
DESCRIPTION	GPM	TDH	"A" (HP)	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	REMARKS
P S No. 6	200/330	44/37	10.00	9.11	± 6.61	± -6.25	± 12'-10"	4"	6"	-3.79	-3.81	-2.81	-2.31	-1.81	± -1.55	-	-	6'-0"	UTILIZE 4"x6" ECCENTRIC INCREASER
P S No. 9	100/240	52/42	10.00	10.09	± 7.59	± -6.55	± 14'-2"	4"	4"	-5.48	-4.09	-3.11	-2.61	-2.11	± -2.59	-	-	5'-0"	
P S No. 10	200/275	51/40	10.00	9.59	± 7.09	± -8.66	± 15'-9"	4"	6"	-6.20	-6.22	-5.22	-4.72	-4.22	± 0.92	-	-	6'-0"	UTILIZE 4"x6" ECCENTRIC INCREASER



B1 LIFT STATION - TOP VIEW
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



A1 LIFT STATION PIPING SECTION
NOT TO SCALE



A3 LIFT STATION PIPING SECTION
NOT TO SCALE

SHEET NOTE:
1. CONTRACTOR SHALL FINALIZE EMERGENCY SHUT-OFF AND HIGH LEVEL ALARM FLOAT ELEVATIONS WITH PUMP MANUFACTURER AND OWNER

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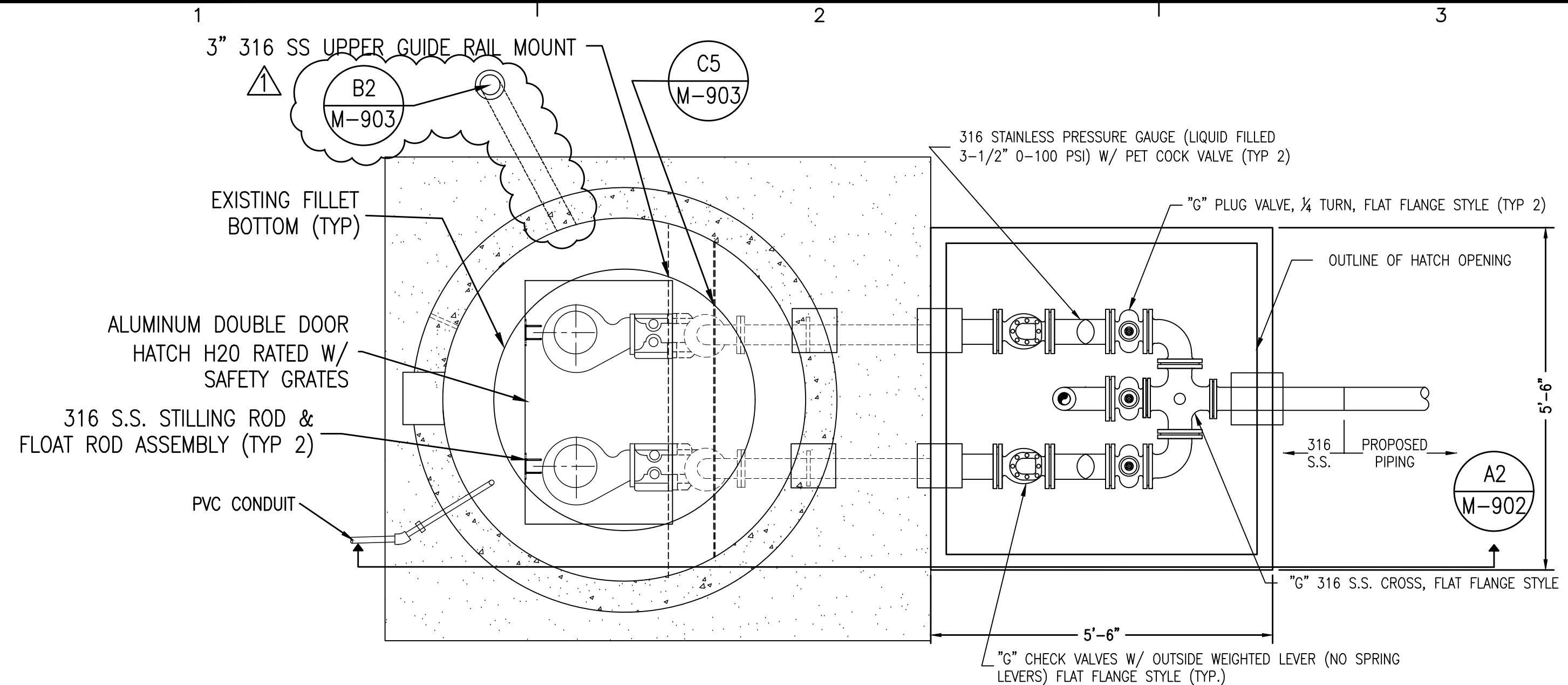
CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE
123503.01	TTL	RCG	RWD	JWL	FEBRUARY 2023

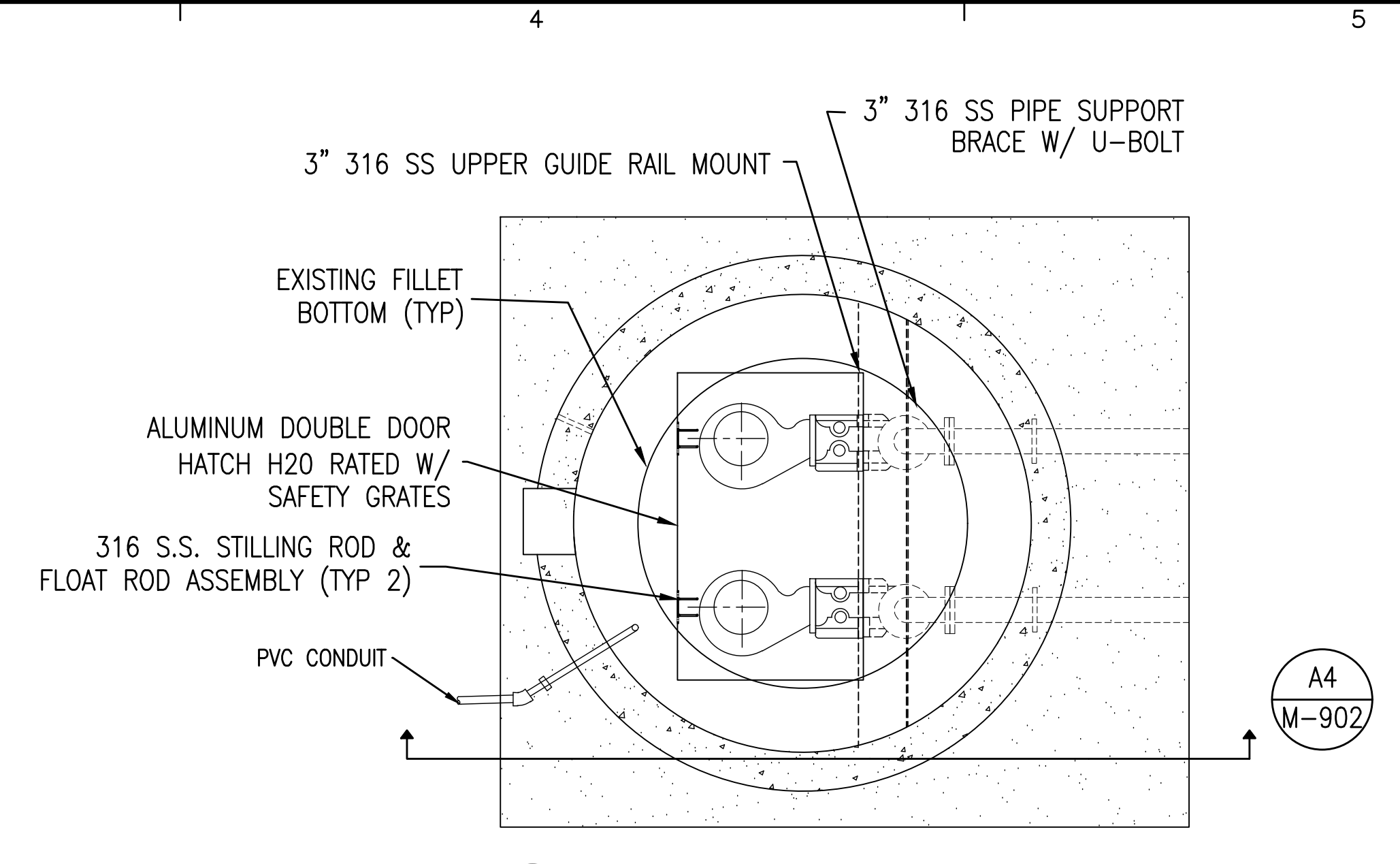
NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	4/24	TTL	ADDENDUM 1

STANDARD DETAILS
FOR LIFT STATION 6,
9, & 10 IMPROVEMENTS
M-901

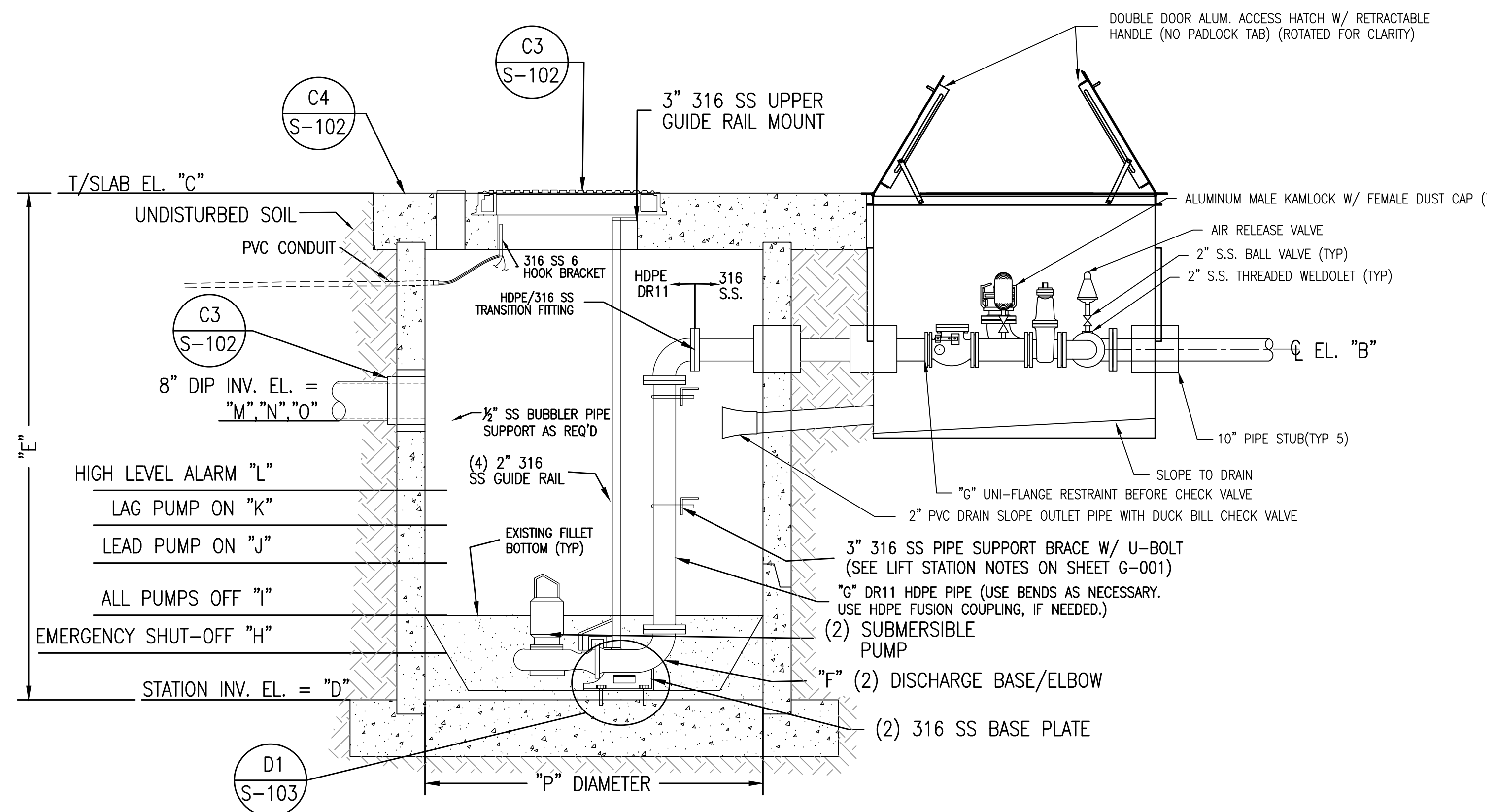
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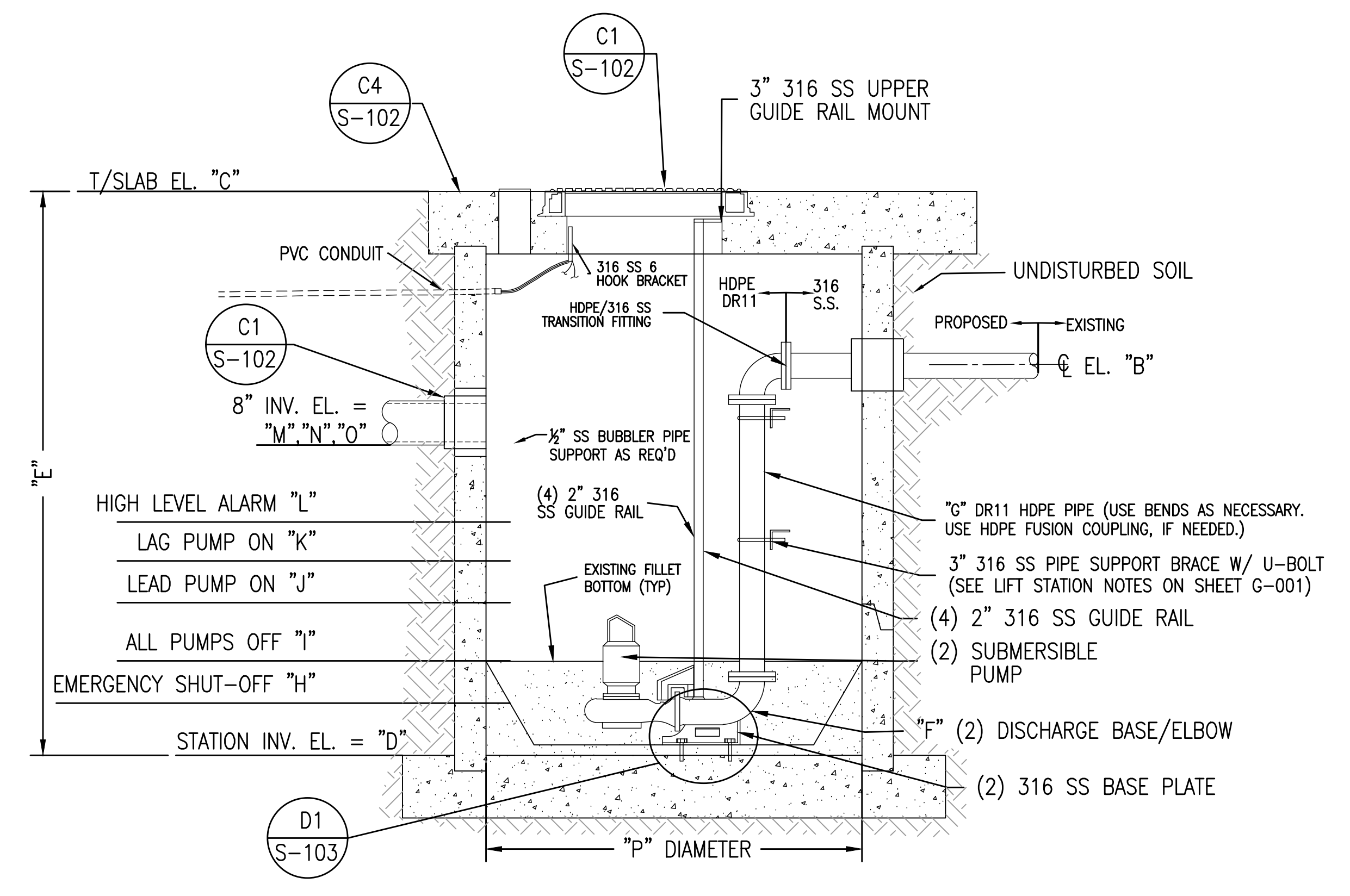
C2 LIFT STATION 7 UPGRADE PLAN
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'



C4 LIFT STATION 1 UPGRADE PLAN
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'



A2 LIFT STATION 7 UPGRADE SECTION
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'



A4 LIFT STATION 1 UPGRADE SECTION
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'

SHEET NOTE:
1. CONTRACTOR SHALL FINALIZE EMERGENCY SHUT-OFF AND HIGH LEVEL ALARM FLOAT ELEVATIONS WITH PUMP MANUFACTURER AND OWNER

PUMP STATION IMPROVEMENT SCHEDULE																			
DESCRIPTION	GPM	TDH	"A" (HP)	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	REMARKS
P S No. 1	124/730	14/ 56	10.0	± 0.54	± 3.71	± -11.09	± 14'-10"	4"	4"	-8.59	-8.23	-2.47	-0.47	-	± -6.11	± -6.31	± -7.53	6'-0"	
P S No. 7	50/250	70/28	7.5	± 2.27	± 5.44	± -4.38	± 9'-10"	4"	4"	-2.90	-2.05	-1.05	-0.05	-0.05	± -0.30	± -0.34	-	5'-0"	

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FL Reg. Engineer #83309

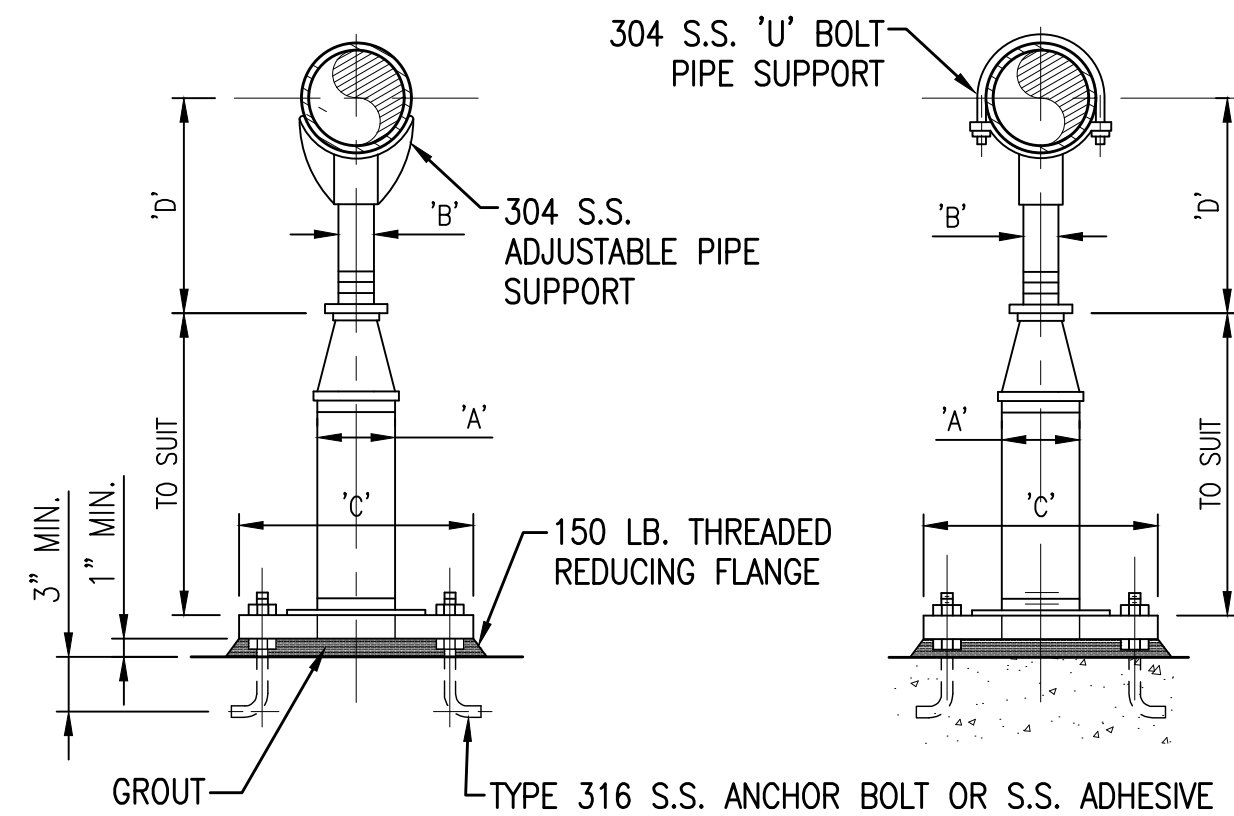
**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

PROJECT NO.	DESIGNED BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	TTL	RWD	JWL	FEBRUARY 2023	1	4/24	TTL	ADDENDUM 1

**STANDARD DETAIL
FOR LIFT STATION 1 & 7
IMPROVEMENTS**

M-902

K:\1235 Cedar Key\123503.01 Sanitary Sewer Lift Station Rehabilitation\DWG\BID - FEB 2024\M-903.dwg, Apr 22, 2024 - 7:40:23AM, jwiesner

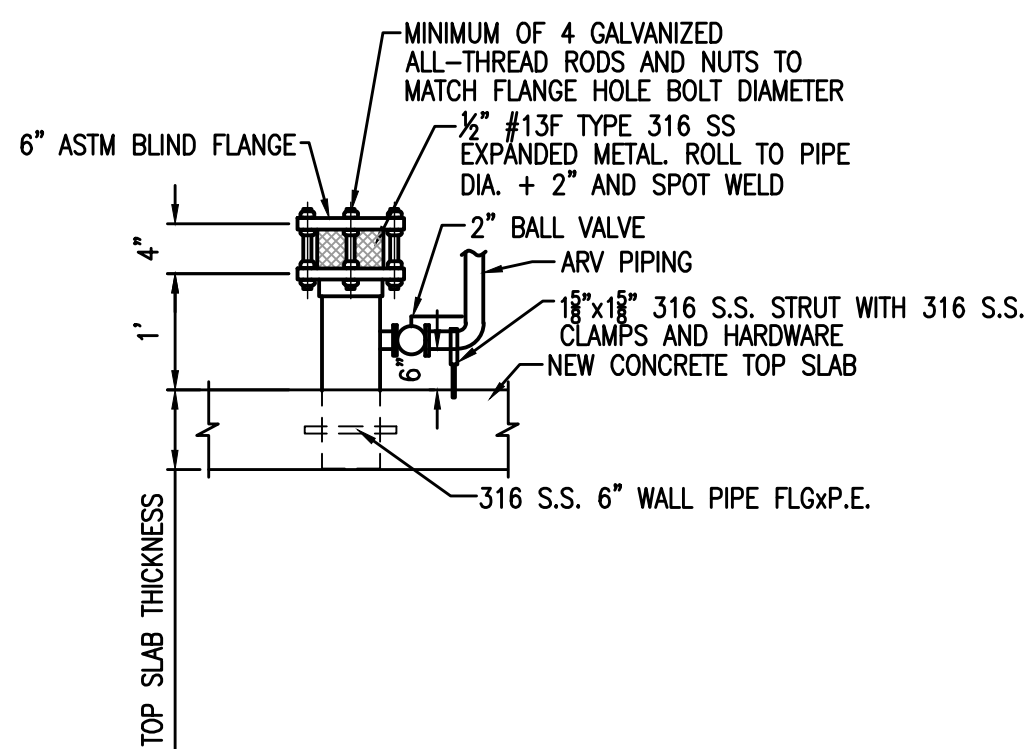


D1 ADJUSTABLE PIPE SUPPORT DETAIL
NOT TO SCALE

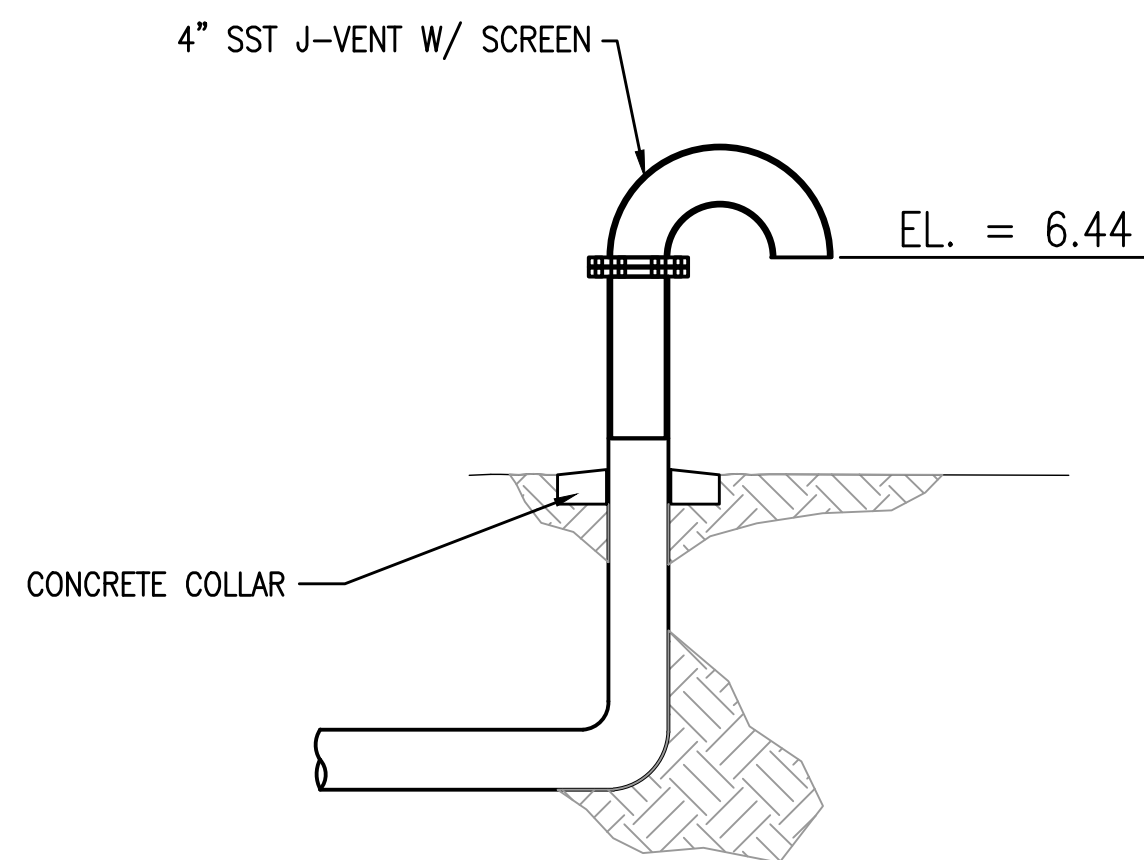
ADJUSTABLE PIPE SUPPORT
APPROX. DIMENSIONS IN INCHES

PIPE SIZE	BA	C	D MIN.	D MAX.
2 1/2	2 1/2	1 1/2	8	11 1/2
3	2 1/2	1 1/2	9	8 1/4
3 1/2	2 1/2	1 1/2	9	8 1/4
4	3	2 1/2	9	10 1/4
6	3	2 1/2	9	11 5/8
8	3	2 1/2	9	13 5/8
10	3	2 1/2	9	14 5/8
12	3	2 1/2	9	15 5/8
14	4	3	11	18 5/8
16	4	3	11	19 1/4
18	6	3 1/2	13 1/2	21 1/4
20	6	3 1/2	13 1/2	23 1/4
24	6	4	13 1/2	26 1/2

NOTE:
1. UNDER VALVES, METERS OR OTHER SPECIAL APPURTENANCES A FABRICATED SUPPORT PIECE MAY BE UTILIZED AS ACCEPTABLE TO ENGINEER

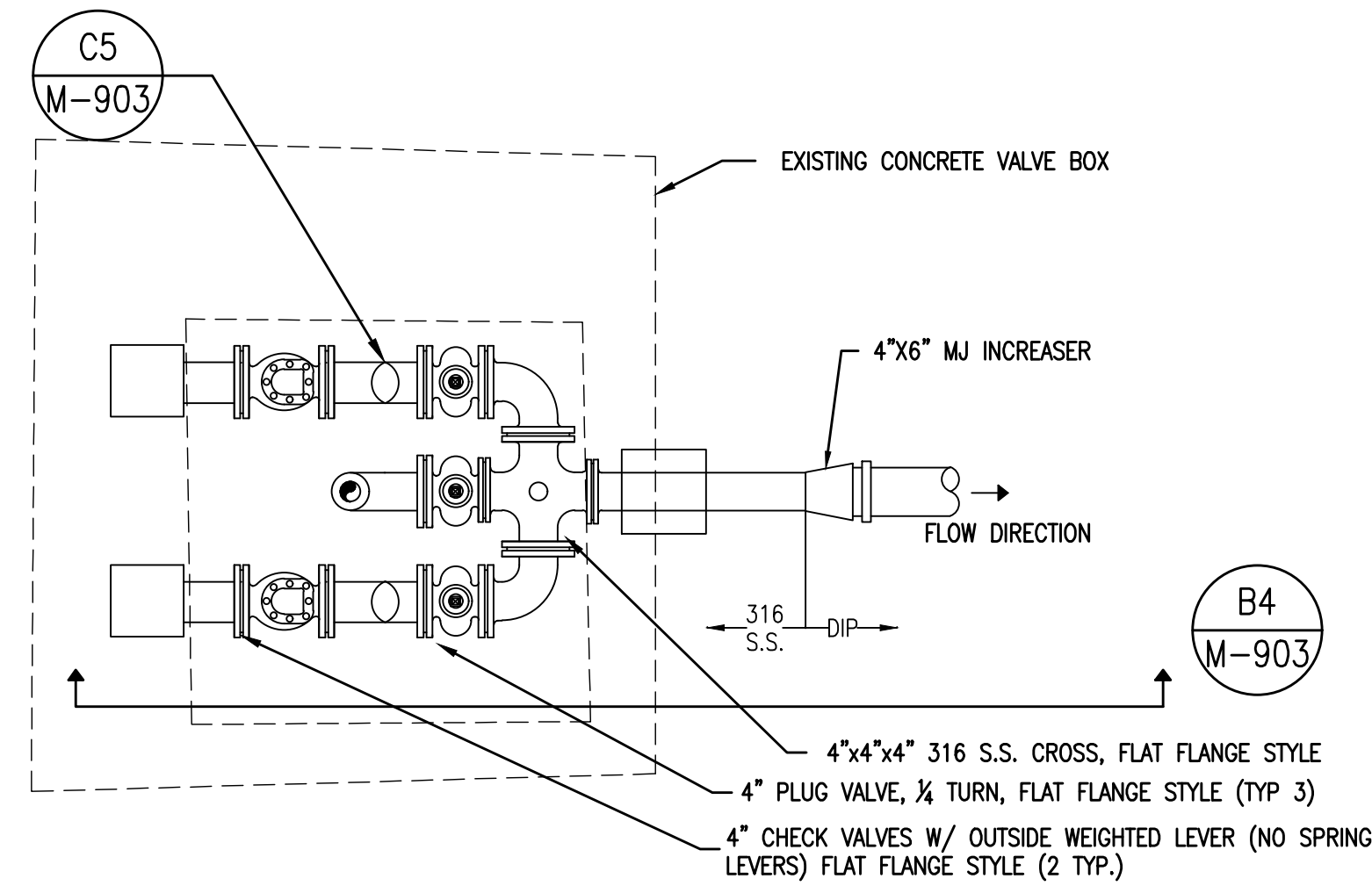


B1 AIR VENT CONNECTION DETAIL
NOT TO SCALE

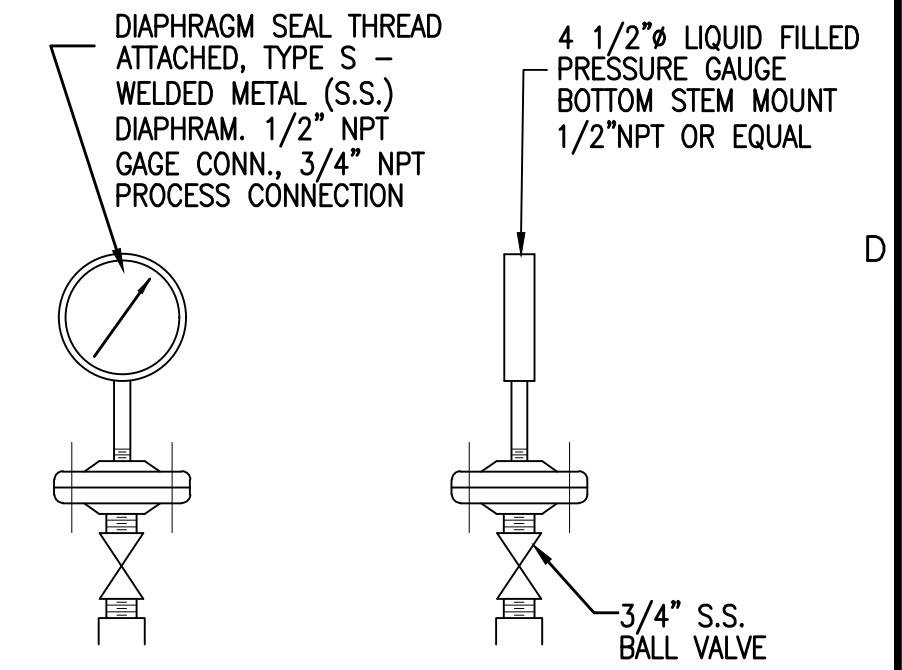


B2 J-VENT DETAIL
NOT TO SCALE

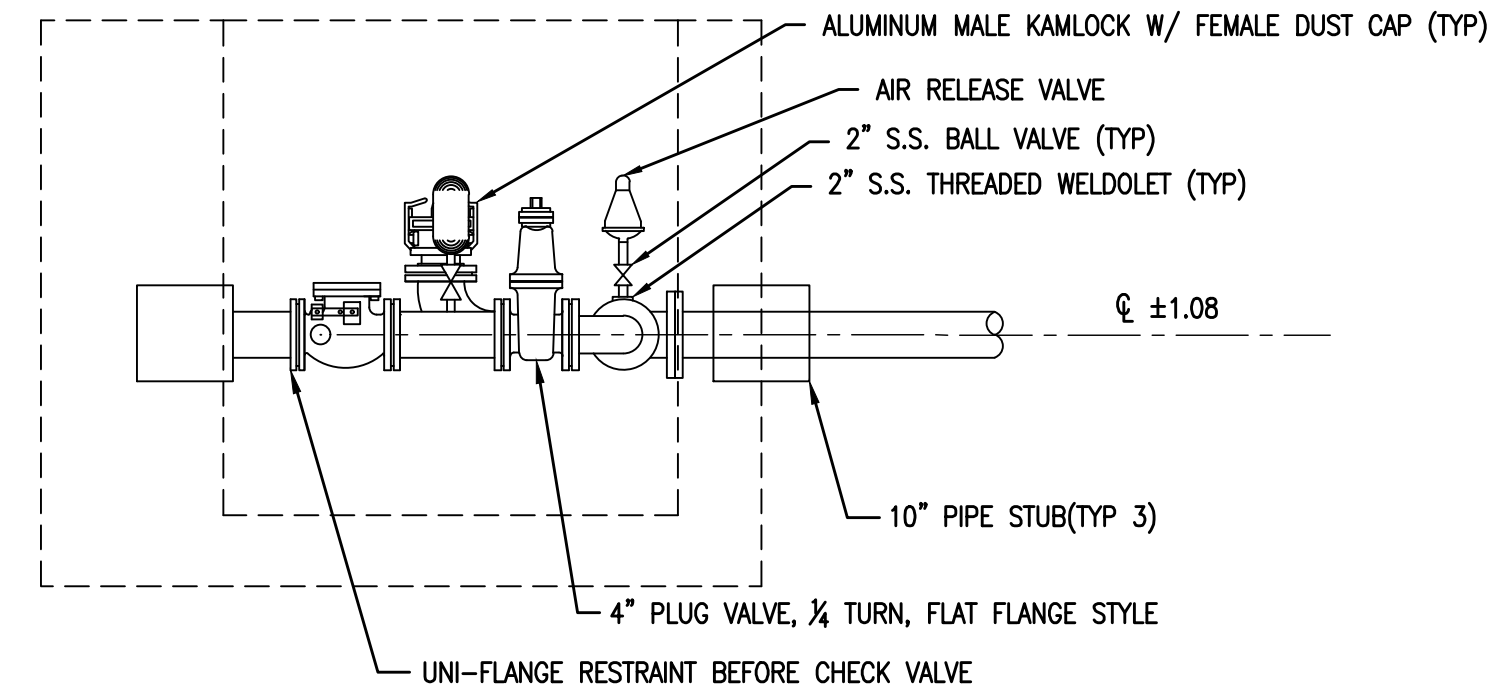
DETAIL NOTE:
1. 4" SST J-VENT W/ SCREEN SHALL EXIT THE WET WELL UNDERGROUND CONCRETE COLLAR SHALL BE INSTALLED.
2. REMOVE EXISTING PIPE GROUT PATCH. REPAIR USING PRE-PACKAGED NON-SHRINK GROUT. PLACE 3/4" THICK TRIANGULAR CONTINUOUS BEAD OF SIKASWELL S-2 HYDROPHILIC WATERSTOP OR APPROVED EQUAL PRIOR TO GROUTING.



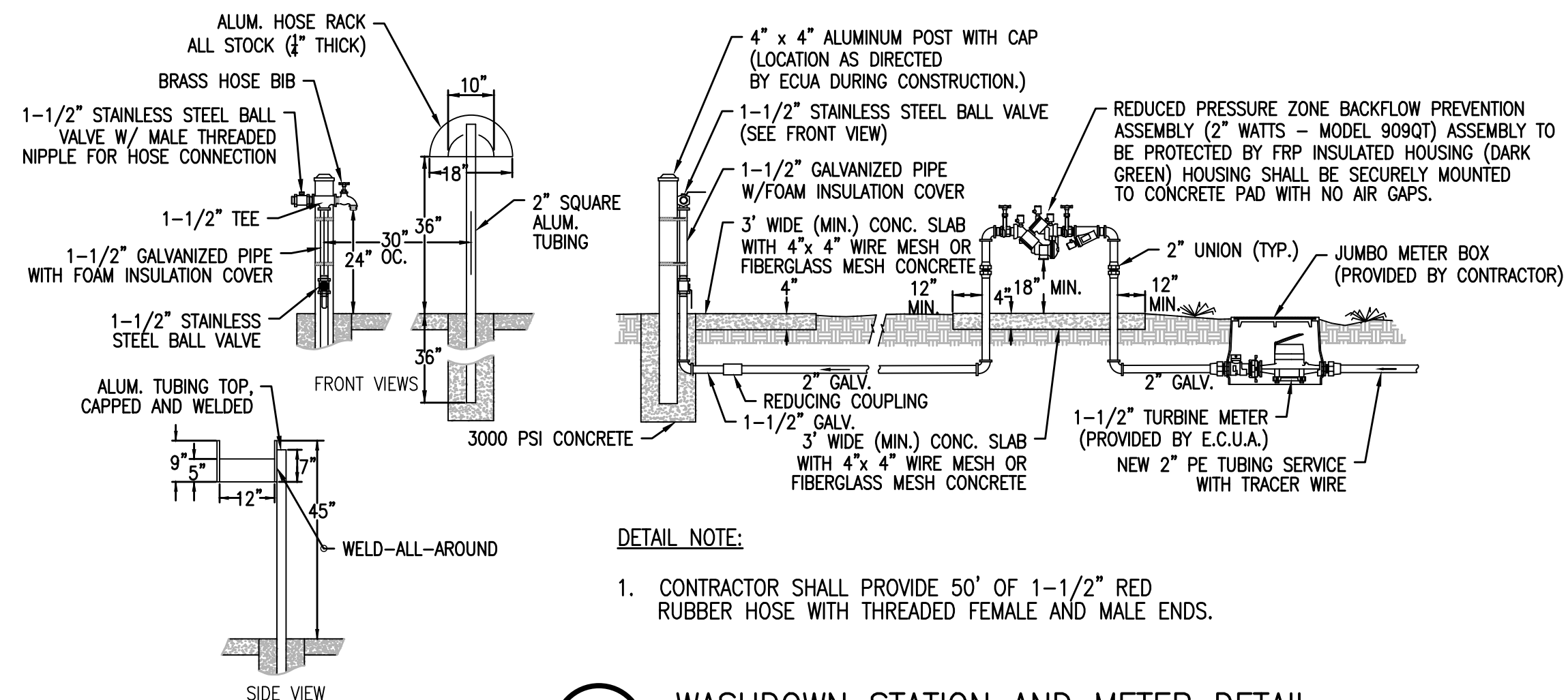
C4 LIFT STATION 1 VALVE BOX UPGRADE PLAN
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'



C5 PRESSURE GAUGE DETAIL
NOT TO SCALE



B4 LIFT STATION 1 VALVE BOX UPGRADE ELEVATION
SCALE: 1" = 1.25' 0 0.625' 1.25' 2.5'



A4 WASHDOWN STATION AND METER DETAIL
NOT TO SCALE

DETAIL NOTE:
1. CONTRACTOR SHALL PROVIDE 50' OF 1-1/2" RED RUBBER HOSE WITH THREADED FEMALE AND MALE ENDS.

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
448 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9861
ENGINEERING BUSINESS: EB-0000340



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TYLER T. LEE
FL Reg. Engineer #83309

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	4/24	TTL	ADDENDUM 1

PROJECT NO: 123503.01
DESIGNED BY: TTL
DRAWN BY: RCG
CHKD BY: RWD
PROJ. MGR: JWL
DATE: FEBRUARY 2023
NOT RELEASED FOR CONSTRUCTION BY: DATE

STANDARD DETAILS

M-903

STRUCTURE NOTES

- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, LOCAL CODES, STANDARDS, REGULATIONS AND LAW, THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 8th EDITION (2023) INCLUDING ALL CURRENT AMENDMENTS.
- THE GOVERNING STANDARDS AND SPECIFICATIONS SHALL BE THE FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND THE FY 2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.
- THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED, PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.
- DESIGN LOADS:**
DEAD LOADS:
 CONCRETE UNIT WEIGHT- 150 PCF

SOIL LOADS:
 SOIL UNIT WEIGHT- 115 PCF
 LATERAL SOIL LOAD- 150 PSF
 (PSF PER FOOT OF DEPTH)

 MINIMUM FACTOR OF SAFETY- 1.5
 MINIMUM SOIL ALLOWABLE BEARING CAPACITY- 2,000 PSF

LIVE LOADS:
 AASHTO HS20-44 WHEEL LOAD - 16 KIP
 IMPACT FACTOR - 33%

WIND LOADS:
 GOVERNING CODE - ASCE 7-22
 ULTIMATE DESIGN WIND SPEED - 150 MPH
 NOMINAL WIND DESIGN SPEED - 116.2 MPH
 RISK CATEGORY - IV
 EXPOSURE - B
 WIND DIRECTIONAL FACTOR - 0.85
 TOPOGRAPHY FACTOR - 1.0
 VELOCITY PRESSURE - 41.6 PSF
- VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION, NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES. NO CHANGES OF INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER. DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDES OVERALL DIMENSIONAL PARAMETERS AND DESCRIBES ELEMENTS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY PROPOSED MODIFICATIONS.
- DETAILS LABELED "TYP." APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE ONLY PICTORIAL, SEE THE CIVIL AND M.E.P. DRAWINGS FOR THE SIZE AND LOCATIONS OF OPENINGS IN THE STRUCTURE.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS MARKED WITH (+/-). USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTION FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOB SITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, 3 SETS OF PLANS, CALCULATIONS, AND SPECIFICATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, FOR ANY PROPOSED CHANGES TO THE CONTRACT DOCUMENTS.

SITE PREPARATION

- CLEAR AND GRUB ALL EXISTING VEGETATION, DEMOLISH AND REMOVE EXISTING PAVEMENT FROM THE WORK AREA. ANY EXISTING UNDERGROUND UTILITY LINES SHOULD BE IDENTIFIED AND PROTECTED OR REMOVED COMPLETELY FROM THE EXISTING PROJECT AREA. COMPLETE STRIPPING OF THE TOPSOIL SHOULD BE PERFORMED IN AREAS OF PROPOSED GRADE BEARING IMPROVEMENTS.
- GRADE SITE AND PERFORM SURFICIAL COMPACTION ON ALL SOILS WITHIN 2 FEET OF PLANNED STRUCTURES TO DEVELOP A MINIMUM DRY DENSITY OF 96% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF 1"0" BELOW THE COMPACTED SURFACE. ALL FILL SHALL BE A CLEAN SAND WITH NO MORE THAN 15% PASSING THE NO. 200 SIEVE, COMPACTED IN LAYERS NOT EXCEEDING 4" TO 6" THICK LOOSE MEASURE.
- DO NOT PERMIT WATER TO STAND OR POND ON OR NEAR FOUNDATION AREA DURING OR AFTER CONSTRUCTION. SITE GRADING SHALL BE SUCH TO PROVIDE POSITIVE DRAINAGE OF SURFACE WATER RUNOFF AROUND AND AWAY FROM FOUNDATION AREA.

EXCAVATION, BACKFILL AND DEWATERING

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LOGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE AFOOT OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK IN A MANOR CONSISTENT WITH ANY PERMIT REQUIREMENTS.

REINFORCED CONCRETE

- CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS:
 WET WELL TOP SLABS 5,500 PSI
 ELECTRICAL PANEL SUPPORT SHAFT 4,000 PSI
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS, UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE GRADE 60 CARBON STEEL PER ASTM A615.
- PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 26.5.6. PROVIDE KEY WAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- PLACING OF CONCRETE - VIBRATE CONCRETE TO PREVENT HONEYCOMBS AND VOIDS. DO NOT USE ADMIXTURES CONTAINING CHLORIDE SALTS IN THE CONCRETE MIX.

SOIL TESTING

- EACH LIFT OF COMPACTED FILL SHOULD BE TESTED, EVALUATED, AND REWORKED, AS NECESSARY, UNTIL APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF ADDITIONAL LIFTS.
- EACH LIFT SHOULD BE TESTED FOR DENSITY AND WATER CONTENT AT A FREQUENCY OF AT LEAST ONE TEST AT EACH LIFT STATION.

EPOXY ANCHORS

- THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO CAUSE DAMAGE TO THE EXISTING CONCRETE DURING INSTALLATION OF ADHESIVE ANCHORS AND THROUGHOUT THE DURATION OF CONSTRUCTION.
- THREADED ROD ANCHORS SHALL CONFORM TO ASTM F1554 GRADE 55. WASHERS SHALL BE IN ACCORDANCE WITH ASTM F436, TYPE 3. NUTS SHALL BE HEAVY HEX NUTS IN ACCORDANCE WITH ASTM A563 GRADE C3. ALL HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. TREAT COATED HARDWARE WITH CHROMATE AFTER COATING IN A WATER SOLUTION CONTAINING 0.2% SODIUM DICHROMATE 3 OZ./10 GAL.
- ANCHORS SHALL BE POST-INSTALLED WITH SIMPSON SET-XP EPOXY OR APPROVED EQUAL.
- ANCHOR HOLES ARE TO BE PRE-DRILLED TO A MAXIMUM DIAMETER OF 1½ TIMES THE NOMINAL ANCHOR DIAMETER AND A MINIMUM OF THE NOMINAL ANCHOR DIAMETER PLUS ¼". THE CONTRACTOR SHALL TAKE EXTREME CAUTION DURING PLACEMENT OF ANCHORS.
- PRIOR TO INSTALLATION OF ADHESIVE, ENSURE THAT THE CONCRETE SURFACE IS CLEAN AND FREE OF DEBRIS FROM DRILLING OF ANCHOR HOLES. THE BASE CONCRETE TEMPERATURE SHALL BE BETWEEN 50°-80° F DURING APPLICATION OF EPOXY ADHESIVE. ENSURE THE CONCRETE IS DRY DURING INSTALLATION OF ADHESIVE AND THROUGHOUT THE CURE PERIOD.
- ALLOW FOR A MINIMUM CURE TIME OF 72 HOURS PRIOR TO INITIATING ANY OTHER CONSTRUCTION ACTIVITIES THAT MAY DISTURB THE ANCHORED STEEL.

ACCESS HATCH

- LIFT STATIONS 6, 7, 9, & 10:
 - ACCESS HATCHES SHALL BE MODEL F1H ALUMINUM ACCESS COVER BY HALLIDAY PRODUCTS, INC. OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
 - ACCESS DOOR PANEL AND HATCH SHALL BE H-20 LOAD RATED, AND PRESSURE RATED WATERTIGHT CAPABLE OF WITHSTANDING A 25 FOOT STATIONARY WATER COLUMN.
 - HINGES, CAM LOCKS, HOLD-OPEN ARM, AND ALL FASTENING HARDWARE SHALL BE T-316 STAINLESS STEEL.
 - ACCESS HATCH SHALL INCLUDE ORANGE SAFETY RETRO GRATES, BOLTS, AND LIFT ASSIST.
- LIFT STATION 1:
 - ACCESS HATCHES SHALL BE MODEL 00821624C01 ACCESS COVER BY EJ GROUP, INC. OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
 - ACCESS DOOR PANEL AND HATCH SHALL BE H-20 LOAD RATED FOR IN-STREET USE AND BE FITTED WITH EPDM GASKETS.
 - ACCESS HATCH FRAME AND LID TO BE DUCTILE IRON MEETING THE SPECIFICATIONS OF ASTM A536 GRADE 70-50-05.
 - ACCESS HATCH SHALL INCLUDE ORANGE SAFETY RETRO GRATES, BOLTS, AND LIFT ASSIST.

PIPE SEALS

- PIPE WALL AND SLAB PENETRATION SEALS TO BE OF THE MODULAR LINK TYPE. SEALS SHALL CONSIST OF A SERIES OF INTERLOCKING, MOLDED SYNTHETIC RUBBER LINKS, WITH HEAVY-DUTY PLASTIC PRESSURE PLATES, AND STAINLESS STEEL NUTS AND BOLTS.
- SEALS TO BE DESIGNED TO PROVIDE A HYDROSTATIC SEAL BETWEEN THE PIPE AND WALL/SLAB PENETRATION. SEALS SHALL BE SIZED AND SELECTED PER MANUFACTURER RECOMMENDATIONS.
- MECHANICAL PIPE SEALS SHALL BE FABRICATED OF AN EPDM ELASTOMER FOR GENERAL SERVICE AND A NITRILE/ BUNA-N FOR HYDROCARBON/PETROLEUM BASED APPLICATIONS. MECHANICAL PIPE SEALS SHALL BE MODEL "METRASEAL" AS MANUFACTURED BY THE METRAFLEX COMPANY, CHICAGO, IL, OR APPROVED EQUAL.
- PRIOR TO INSTALLATION OF MODULAR TYPE WALL/SLAB PENETRATION SEAL, ENSURE THAT THE CORED CONCRETE IS CLEAN, AND LAITANCE FREE.
- SEAL INTERIOR FACE OF REINFORCED CONCRETE WALL PENETRATIONS AFTER SEALING OF PIPE PENETRATION USING BASF MASTERFLOW 4316 NON-SHRINK GROUT OR APPROVED EQUAL. PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONCRETE SHALL BE CLEAN, SATURATED SURFACE-DRY (SSD), SOUND, AND ROUGHENED TO CONCRETE SURFACE PROFILE (CSP) OF 5 TO 9 IN ACCORDANCE WITH ICRI 310.2 TO PERMIT PROPER BOND. INSTALL NON-SHRINK GROUT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE CORE DRILLING

- THE CONTRACTOR SHALL COMPLY WITH ANSI B-7.1 AND B-7.5 STANDARDS AND SHALL ADHERE TO ALL APPLICABLE SAFETY GUIDELINES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ORDINANCES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE LOCATION OF THE AREA TO BE CORED REVIEWED, APPROVED, AND ALL CUT LINES CLEARLY MARKED PRIOR TO THE START OF ANY CUTTING OPERATIONS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE CONCRETE WALL TO BE CORED IS REINFORCED AND THAT CORING OPERATIONS WILL LIKELY ENCOUNTER STEEL REINFORCING.
- EQUIPMENT USED IN THE DRILLING OPERATIONS MUST MEET ALL OSHA STANDARDS AND SPECIFICATIONS AS TO PLUGS, NOISE, WIRING, AND FUME POLLUTION.
- SPECIFICATIONS FOR MINIMUM AND MAXIMUM CLEARANCE REQUIREMENTS BETWEEN THE PIPE AND CORE HOLE SHALL BE OBTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MODULAR SEAL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND SHOULD BE DETERMINED PRIOR TO STARTING WORK.
- THE CORE DRILLING EQUIPMENT SHALL BE OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- APPLY SIMPSON FX-70-9 EPOXY COATING OR APPROVED EQUAL TO THE CORED EDGE OF THE REINFORCED CONCRETE WALL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. APPLICATION OF COATING SHALL OCCUR PRIOR TO INSTALLATION OF PIPE AND SEALS. PRIOR TO APPLICATION, CONCRETE SURFACE SHALL BE CLEAN AND LAITANCE AND DEBRIS FREE.

ALUMINUM PANEL SUPPORT POST

- ELECTRICAL PANEL SUPPORT POSTS SHALL BE GRADE 6061-T6 ALUMINUM MEETING THE REQUIREMENTS OF ASTM B429.
- ELECTRICAL PANEL ENCLOSURE MOUNTING HEIGHT SHALL NOT EXCEED 6 FEET FROM THE FINISH GRADE TO THE BOTTOM OF THE PANEL ENCLOSURE.
- CONTRACTOR SHALL COORDINATE ELECTRICAL PANEL FOUNDATION LOCATION WITH THE OWNER PRIOR TO CONSTRUCTION.

WATERSTOP

- CONSTRUCTION JOINTS SHALL BE SEALED USING A 3/4" X3/4" X3/4" TRIANGULAR CONTINUOUS BEAD OF SIKASWELL S-2 WATERSTOP OR APPROVED EQUAL.
- WATERSTOP SHALL BE 1-PART POLYURETHANE HYDROPHILIC WATER-SWELLING CONTACT SEALANT.
- COAT CONTACT SURFACE USING SIKA ARMATEC-110 EpoCem OR APPROVED EQUAL PRIOR TO APPLICATION OF WATERSTOP.
- ENSURE SUBSTRATE IS CLEAN, DRY OR MATT DAMP AND LAITANCE FREE PRIOR TO APPLICATION. ALLOW FOR A MINIMUM CURE TIME OF 24 HOURS PRIOR TO PLACING CONCRETE. PROTECT WATERSTOP AGAINST CONTACT WITH WATER UNTIL PLACEMENT OF CONCRETE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

LIFT STATION LINING SYSTEM

- EXISTING LIFT STATION INTERIORS SHALL BE FULLY COATED USING SPECTRASHELD TWO COMPONENT MODIFIED POLYUREA AND CLOSED CELL POLYURETHANE FOAM SPRAY APPLICATION BY CCI SPECTRUM, INC. OR APPROVED EQUAL.
- THE LINING SYSTEM SHALL BE A MULTI-LAYER 'STRESS SKIN PANEL' LINER SYSTEM CONSISTING OF THREE LAYERS:
 - MOISTURE BARRIER BASE COAT - MODIFIED POLYMER (SILICONE MODIFIED POLYUREA)
 - SURFACER - POLYURETHANE/POLYMERIC BLEND FOAM
 - FINAL CORROSION BARRIER - MODIFIED POLYMER (SILICONE MODIFIED POLYUREA)

THE MODIFIED POLYMER (SILICONE MODIFIED POLYUREA) SHALL BE SPRAYABLE, SOLVENT FREE, TWO-COMPONENT POLYMERIC, MOISTURE/CHEMICAL BARRIER SPECIFICALLY DEVELOPED FOR THE CORROSIVE WASTEWATER ENVIRONMENT. THE POLYURETHANE RIGID STRUCTURE FOAM, SHALL BE LOW VISCOSITY TWO-COMPONENT, CONTAINING FLAME RETARDANTS, TOTAL THICKNESS OF MULTI-LAYER LINER SYSTEM SHALL BE A MINIMUM OF 500 MILS.
- THE MATERIALS TO BE UTILIZED IN THE LINING OF WASTEWATER STRUCTURES SHALL BE DESIGNED AND MANUFACTURED TO WITHSTAND THE SEVERE EFFECTS A WASTEWATER ENVIRONMENT. THE MANUFACTURER OF THE CORROSION PROTECTION PRODUCTS SHALL HAVE AT LEAST 10 YEARS OF EXPERIENCE IN THE PRODUCTION OF THE LINING PRODUCTS UTILIZED, AND THE PRODUCTS SHALL HAVE SATISFACTORY INSTALLATION RECORD.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING MATERIAL TECHNICAL DATA SHEETS, SAFETY DATA SHEETS, MANUFACTURER'S CERTIFICATION OF APPLICATOR, AND WORK PROCEDURES TO THE OWNER FOR APPROVAL.
- SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND MAY INCLUDE HIGH PRESSURE WATER CLEANING, HYDRO BLASTING, ABRASIVE BLASTING, GRINDING, OR DETERGENT WATER CLEANING. THE SURFACE PREPARATION METHOD SHALL PRODUCE A CLEANED, ABRADED AND SOUND SURFACE WITH NO EVIDENCE OF LAITANCE, LOOSE CONCRETE, LOOSE MORTAR, CONTAMINANTS, OR DEBRIS, AND SHALL DISPLAY A SURFACE PROFILE SUITABLE FOR APPLICATION OF THE LINER SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALL LINING SYSTEM AFTER COMPLETION OF STRUCTURAL UPGRADES INCLUDING TOP SLAB REPLACEMENT, SEALING OF DISCHARGE, EXHAUST, CONDUIT, AND EXISTING PIPING, AND PRIOR TO PUMP AND PIPE CONNECTION INSTALLATION.



BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
 449 W. MAIN ST., PENSACOLA, FL 32502 (850)436-9661
 ENGINEERING BUSINESS: EB-0000340

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ENGINEER OF RECORD
 NICHOLAS A. CONLIN, P.E.
 LICENSE NUMBER: 686537
 EBBSTONE CAPITAL CIRCLE, NE, SUITE J
 5370 CAPITAL CIRCLE, NE, SUITE J
 TALLAHASSEE, FL 32308

**CEDAR KEY
 SANITARY SEWER
 LIFT STATION
 REHABILITATION**

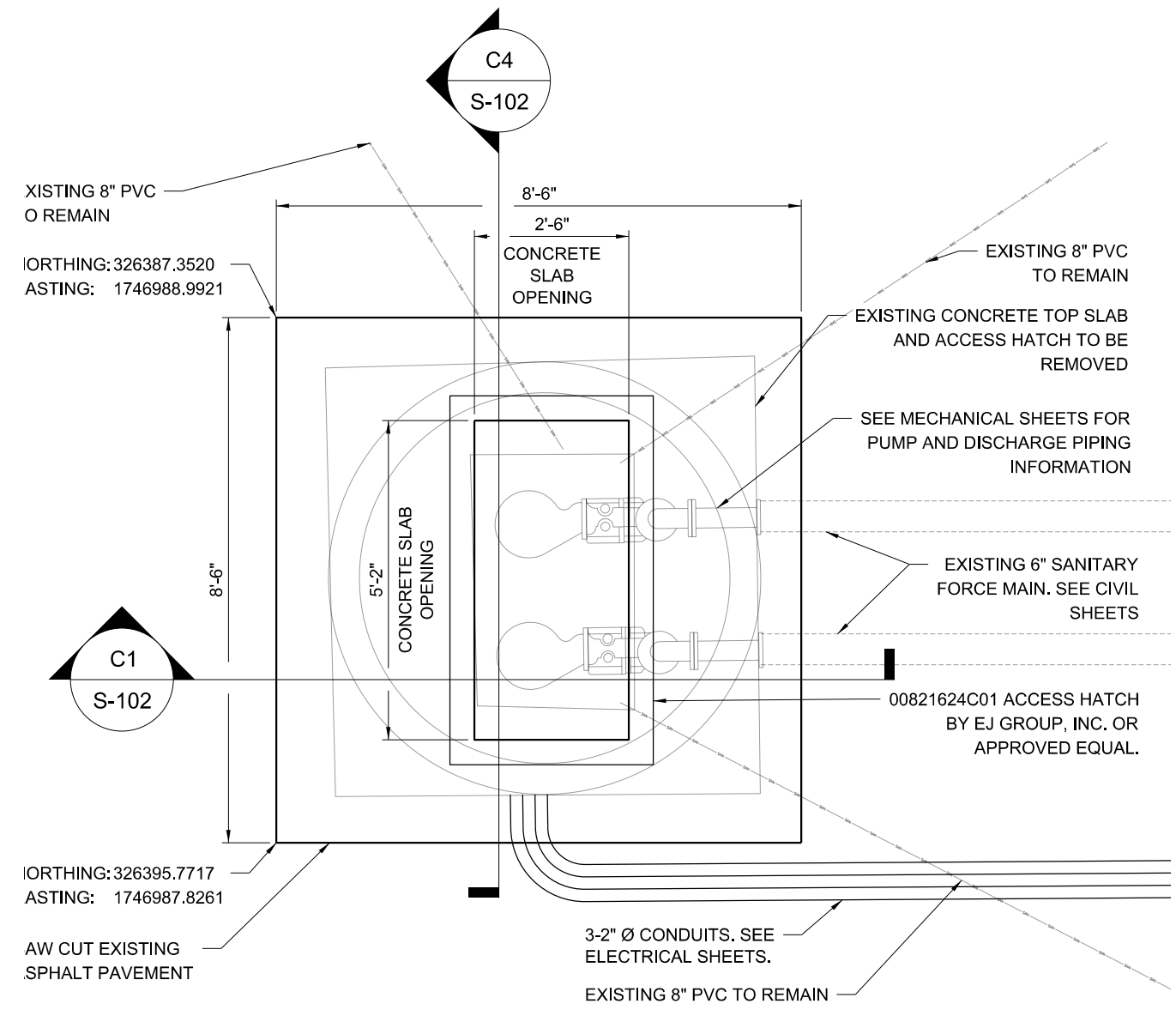
PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:
123503.01	NAC	NAC	JFS	JWU	FEBRUARY 2023

NO.	DATE	APPR.	REVISION/ACTION	TAKEN

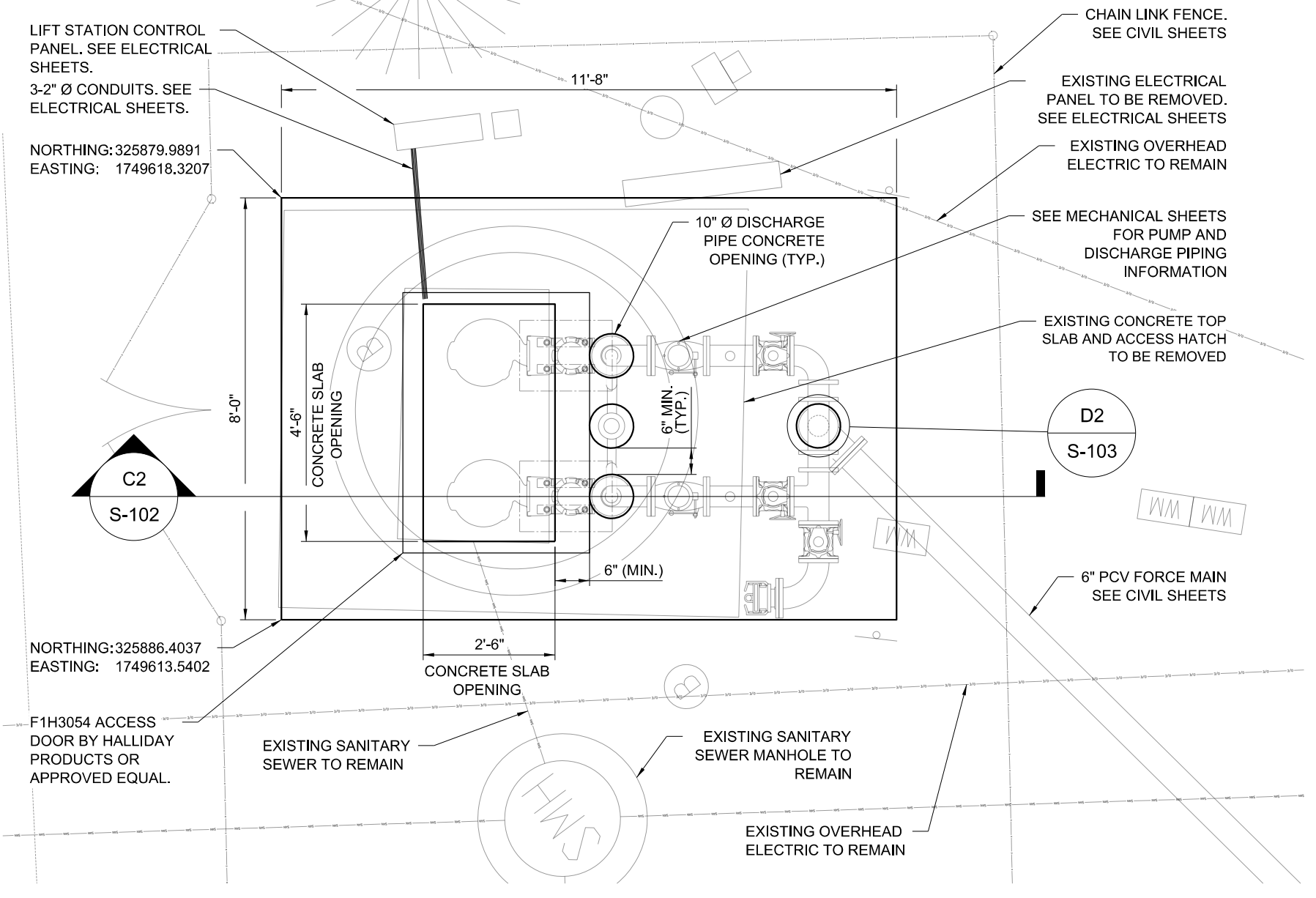
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STRUCTURE NOTES

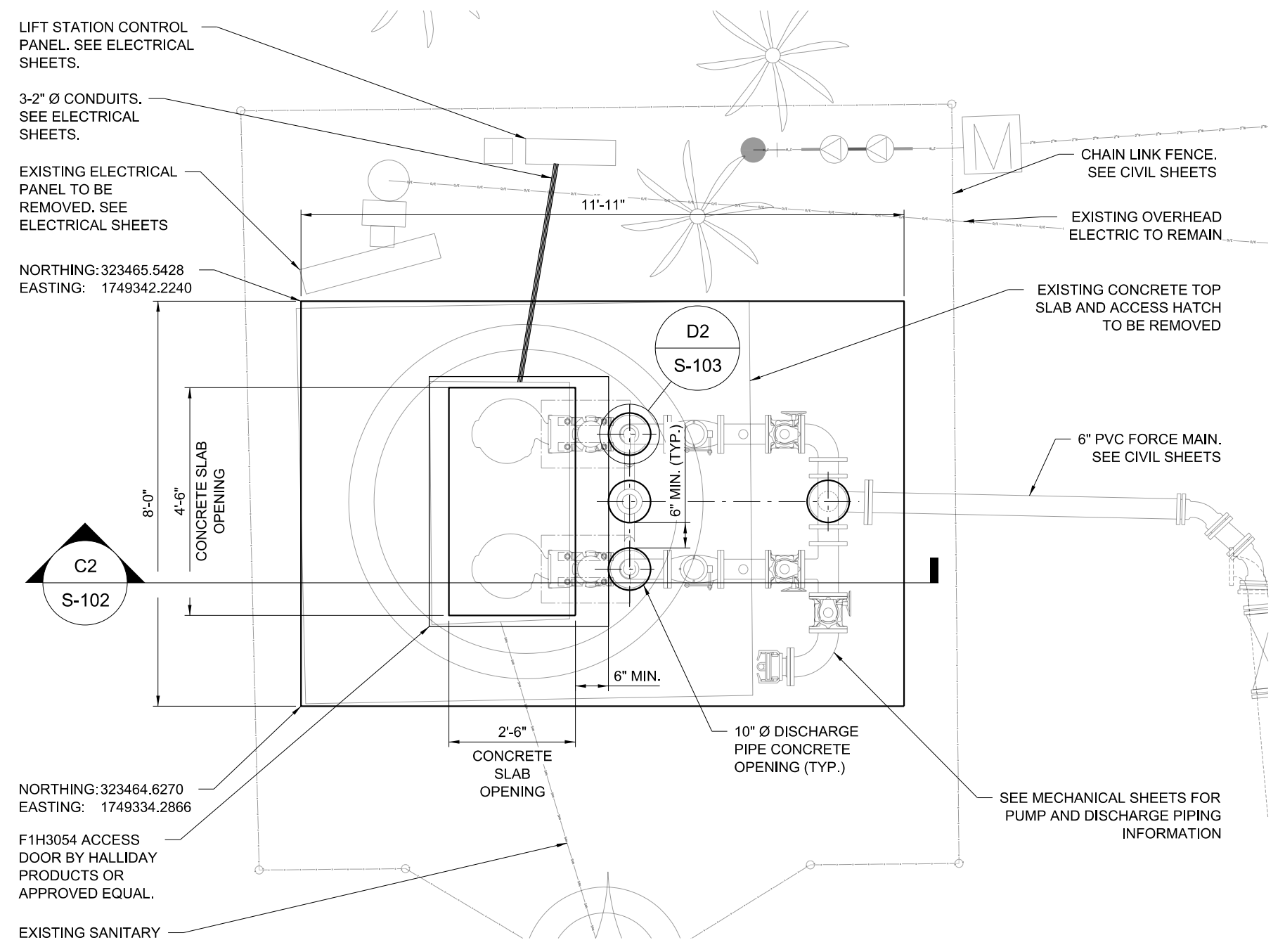
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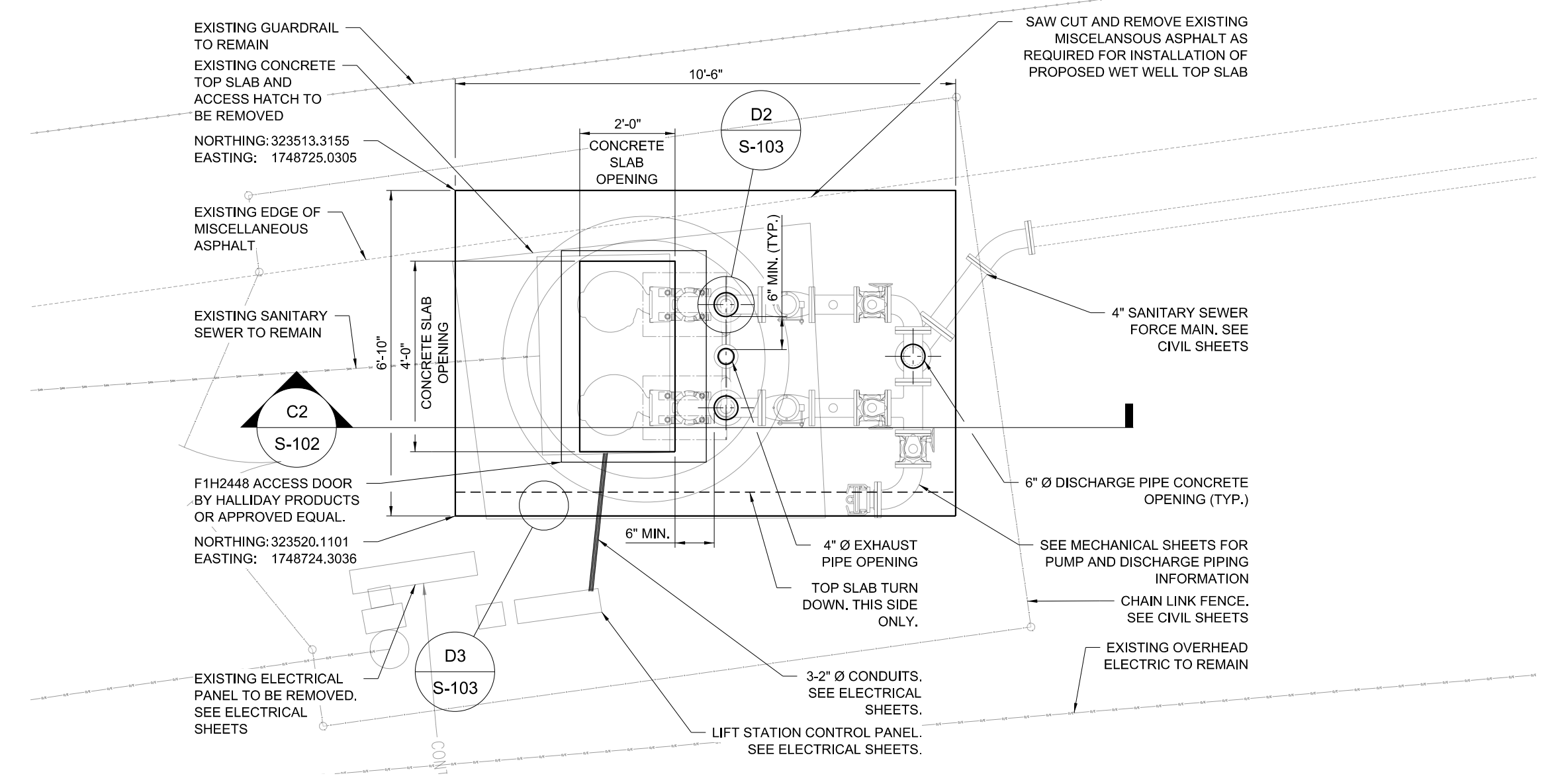
A1 LIFT STATION 1 PLAN
SCALE: 3/8" = 1'



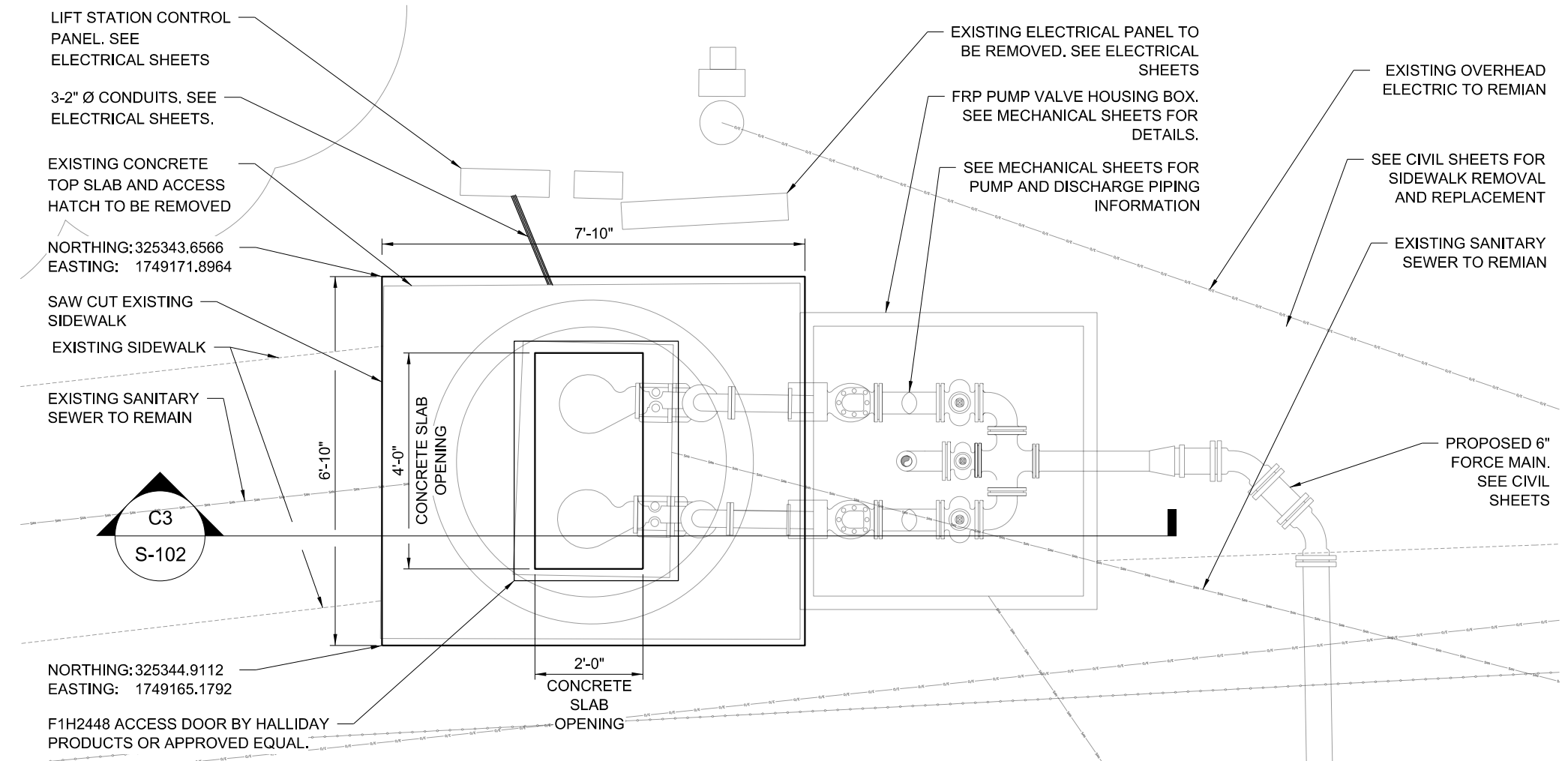
A2 LIFT STATION 6 PLAN
SCALE: 3/8" = 1'



A3 LIFT STATION 10 PLAN
SCALE: 3/8" = 1'

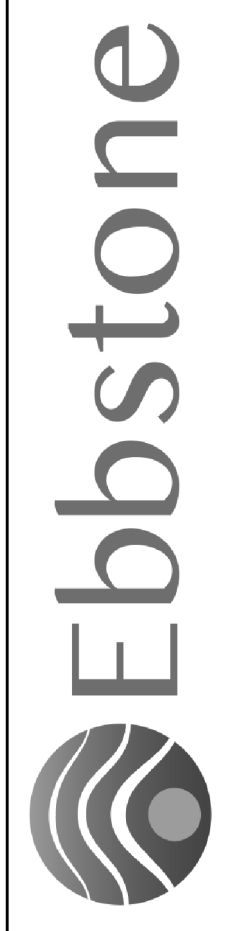


A4 LIFT STATION 9 PLAN
SCALE: 3/8" = 1'



A5 LIFT STATION 7 PLAN
SCALE: 3/8" = 1'

NOTE:
CONTRACTOR SHALL CONFIRM LOCATION AND ORIENTATION OF ACCESS HATCHES BASED ON THE PROPOSED PUMP AND PIPE LAYOUT. CONTRACTOR SHALL CONFIRM THE ADEQUACY OF THE SPECIFIED MINIMUM HATCH SIZE WITH THE PUMP SUPPLIER'S SPECIFICATIONS AND RECOMMENDATIONS.



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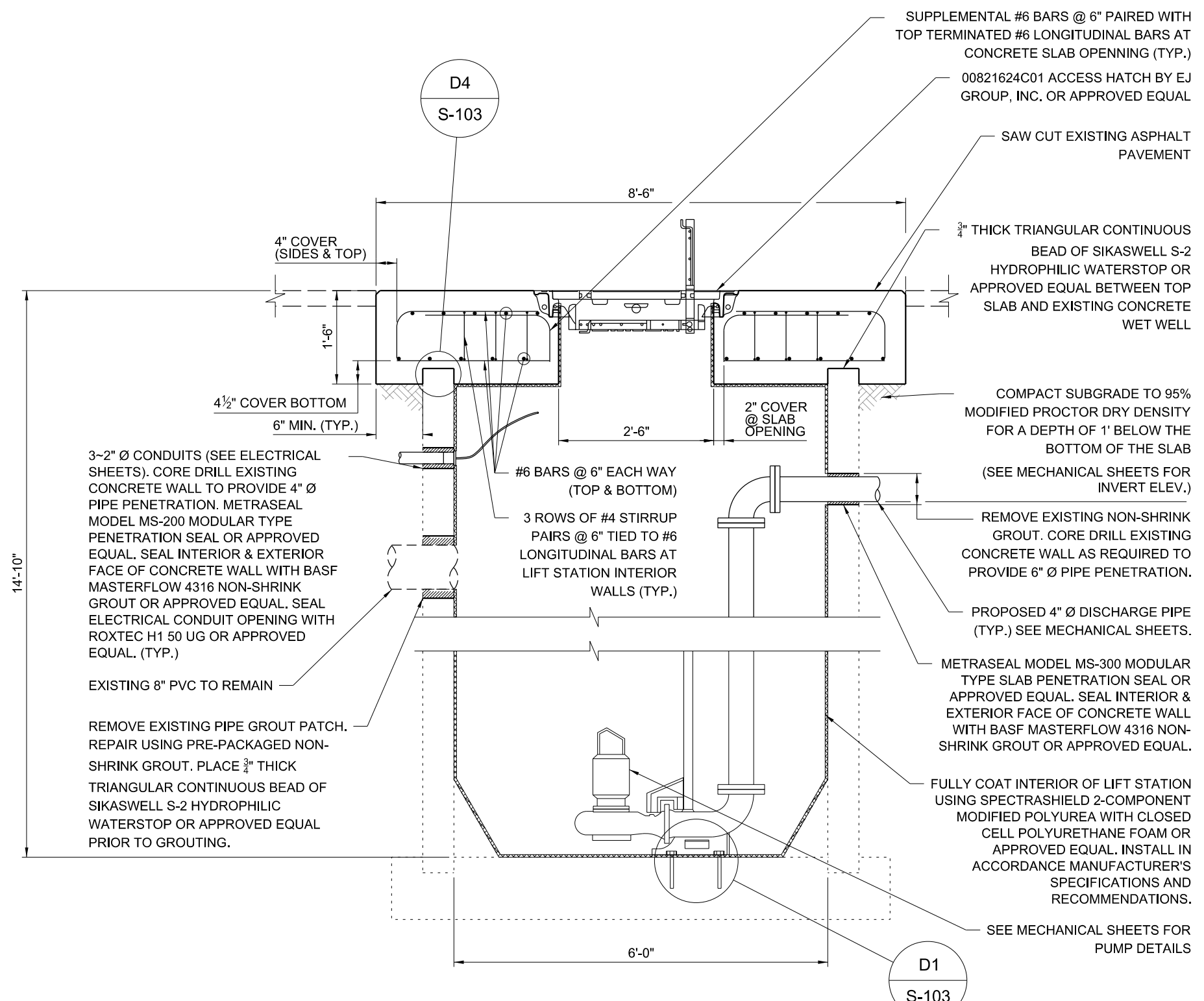
ENGINEER OF RECORD
NICHOLAS A. CONLIN, P.E.
LICENSE NUMBER: 86637
EBBSTONE CAPITAL CIRCLE, N.E. SUITE J
TALLAHASSEE, FL 32308

**CEDAR KEY
SANITARY SEWER
LIFT STATION
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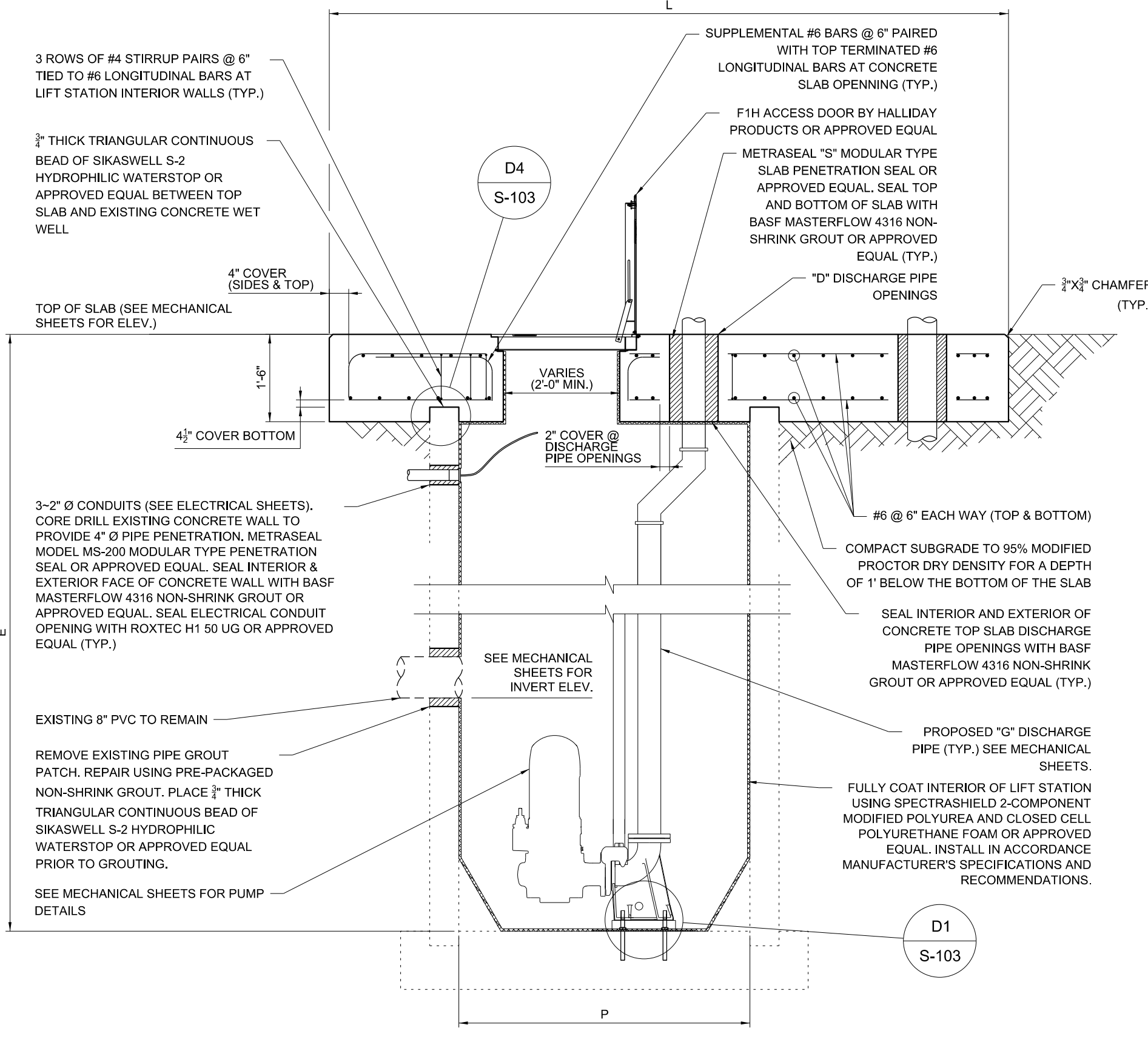
PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:	NO.	DATE	APPR.	REVISION / ACTION	TAKEN
123503.01	NAC	NAC	JFS	JWJ	FEBRUARY 2023					

LIFT STATION PLAN

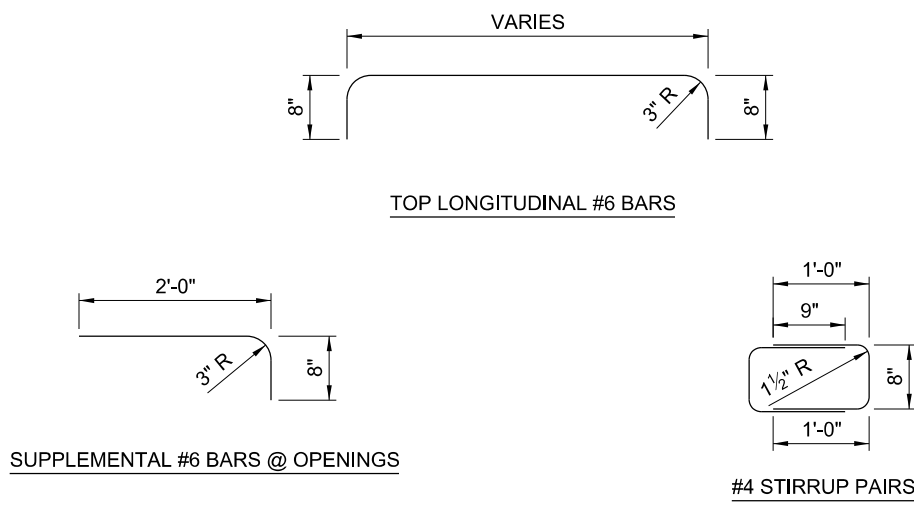
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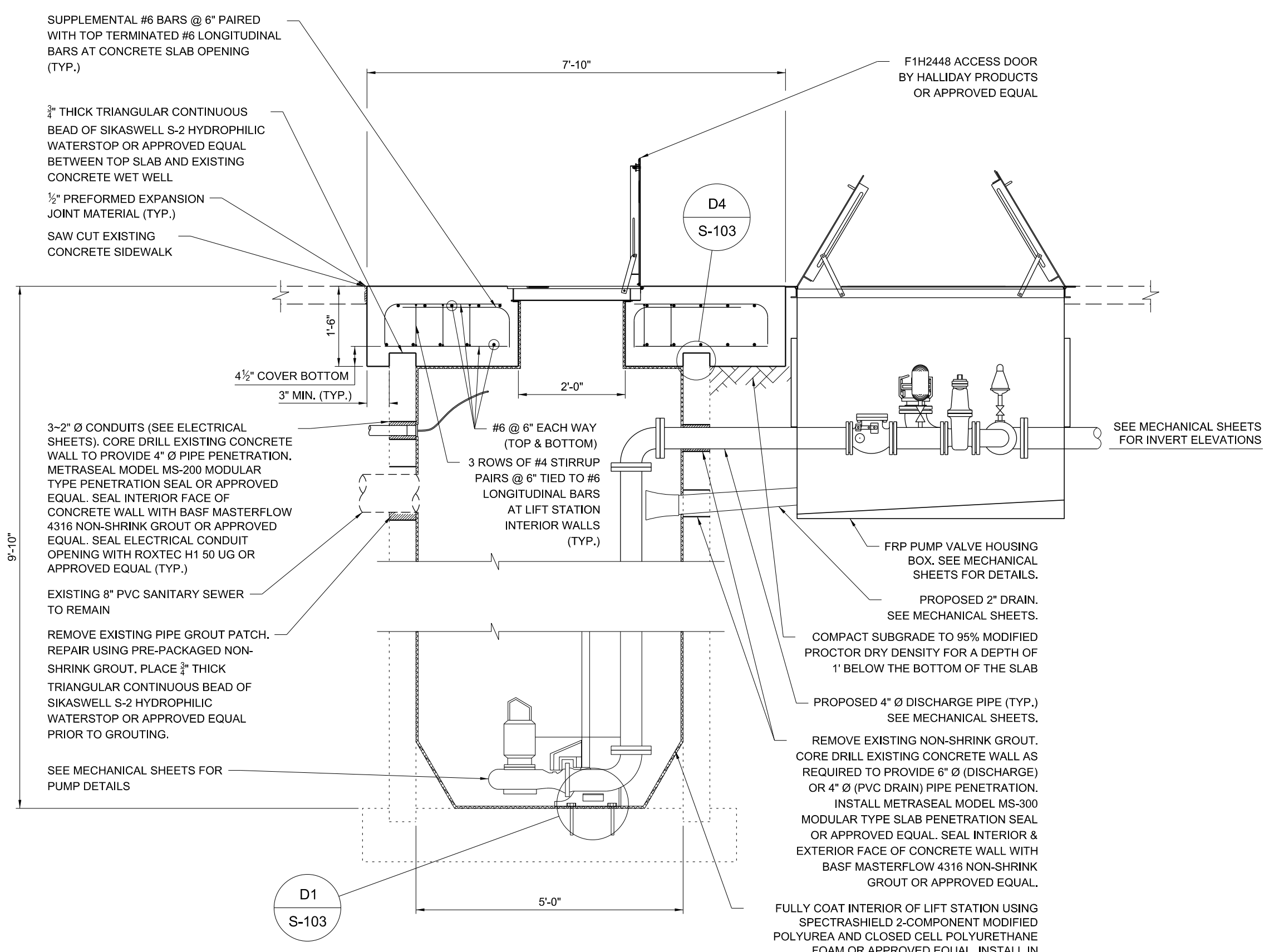
C1 LIFT STATION 1 SECTION
SCALE: 1/2" = 1'



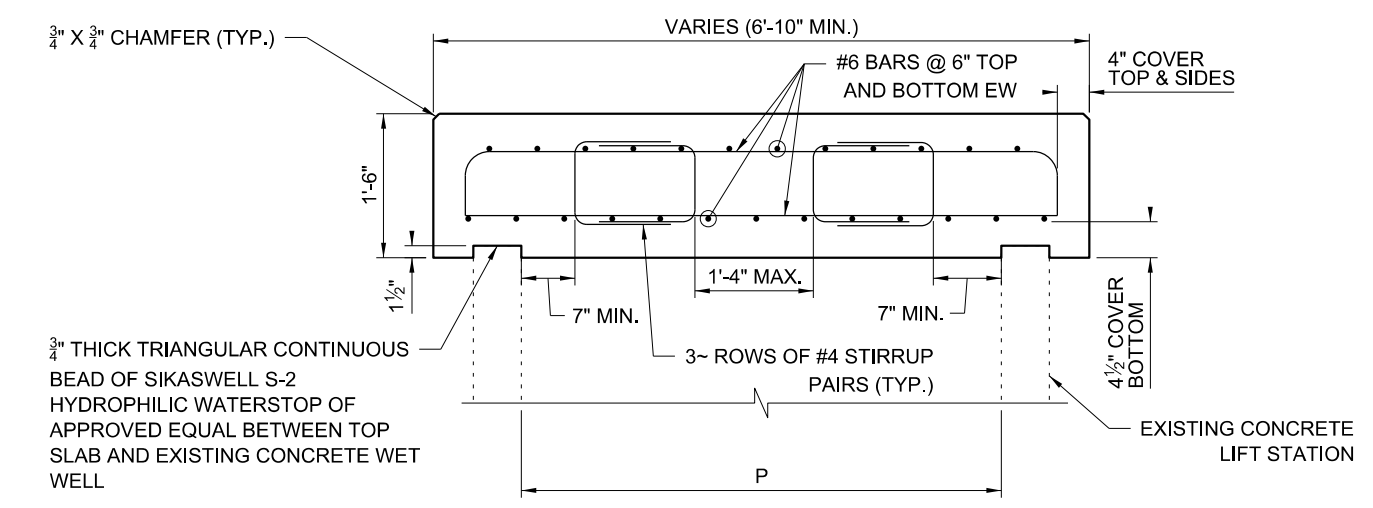
C2 LIFT STATIONS 6, 9, & 10 SECTIONS
SCALE: 1/2" = 1'



D1 BAR BENDING DETAILS
SCALE: 1/2" = 1'



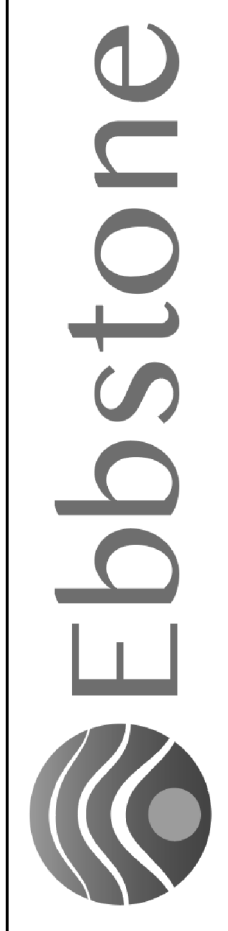
C3 LIFT STATION 7 SECTION
SCALE: 1/2" = 1'



C4 SLAB SECTION
SCALE: 1/2" = 1'

TABLE OF DIMENSIONS

LIFT STATION	E	P	L	G	D	S
LS 6	12'-10"	6'-0"	11'-8"	6"	10"	MS-475
LS 9	14'-2"	5'-0"	10'-6"	4"	6"	MS-300
LS 10	15'-9"	6'-0"	11'-11"	6"	10"	MS-475



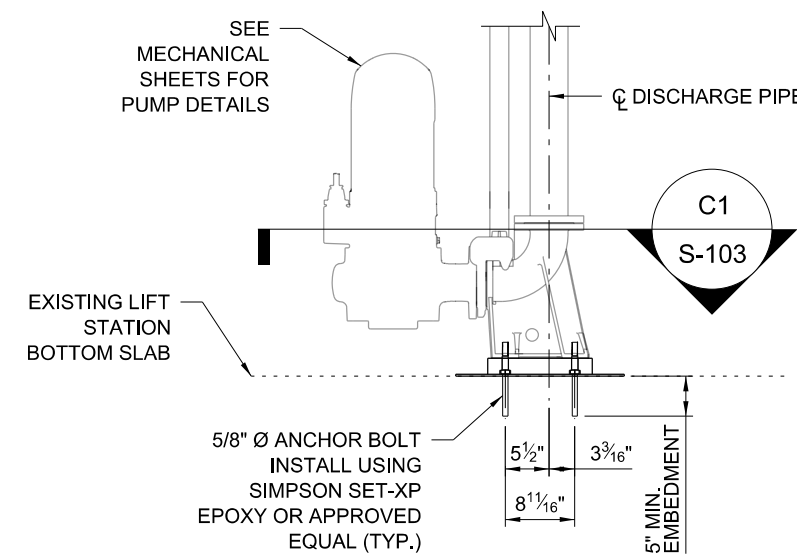
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
449 W. MAIN ST., PENSACOLA, FL 32502 (850)436-9661
Pensacola - Panama City Beach - Tallahassee - Mobile
ENGINEERING BUSINESS: EB-0000340

ENGINEER OF RECORD
NICOLAS A. CONLIN, P.E.
LICENSE NUMBER: 86637
EBS-00000001
5370 CAPITAL CIRCLE, NE, SUITE J
TALLAHASSEE, FL 32308

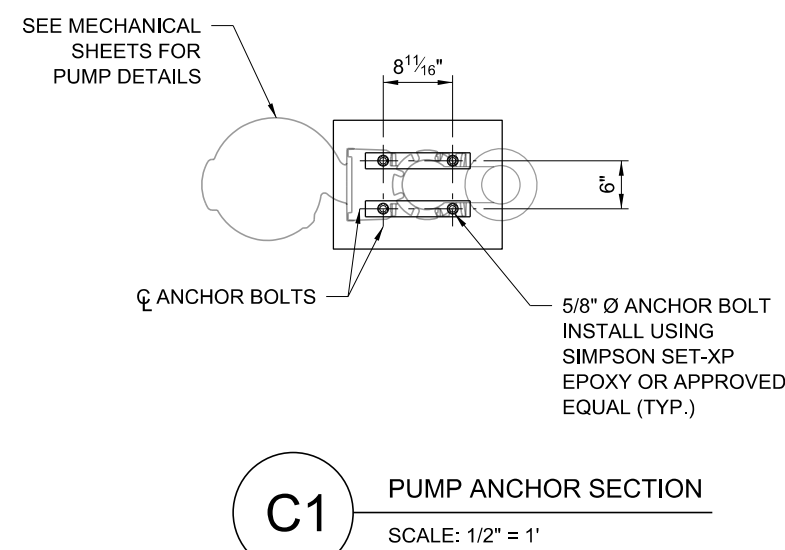
**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

NO.	DATE	APPR.	REVISION / ACTION	TAKEN

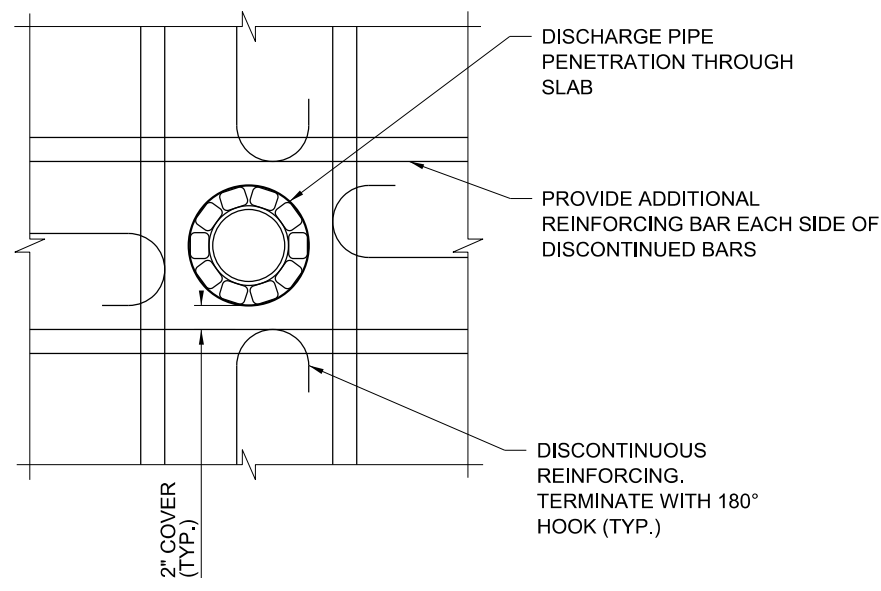
PROJECT NO: 123503.01
DESIGNED BY: NAC
DRAWN BY: NAC
CHK'D BY: JFS
PROJ. MGR: JMW
DATE: FEBRUARY 2023



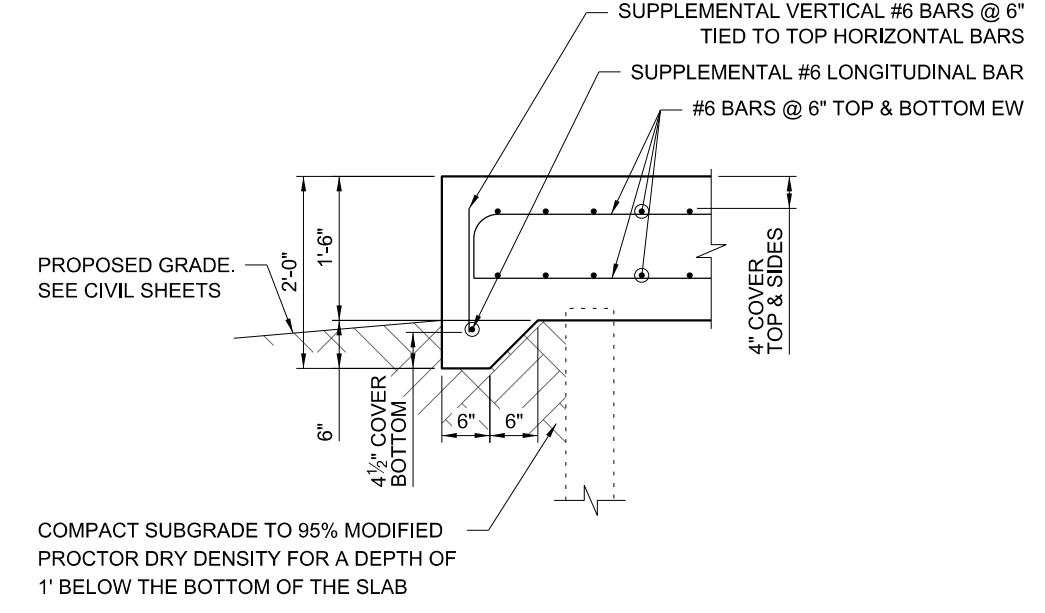
D1 PUMP ANCHOR DETAIL
SCALE: 1/2" = 1"



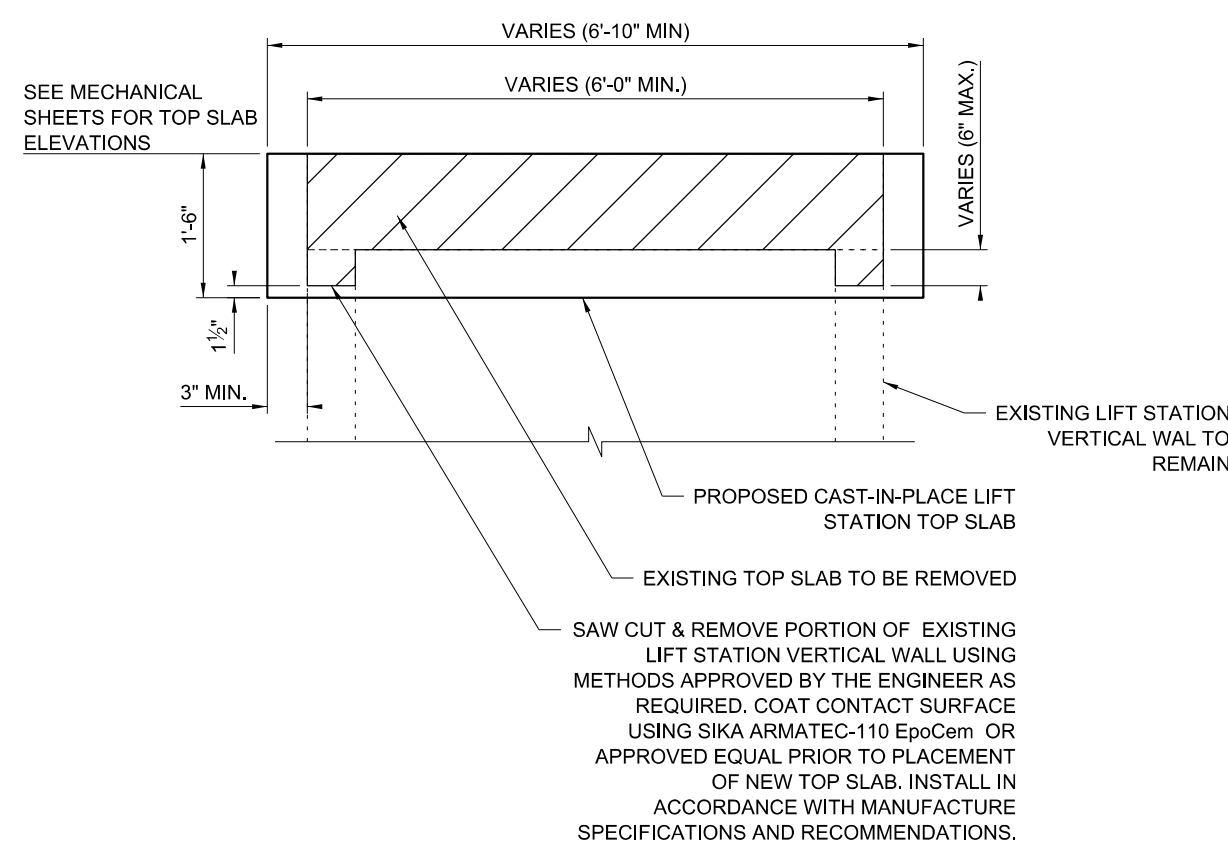
C1 PUMP ANCHOR SECTION
SCALE: 1/2" = 1"



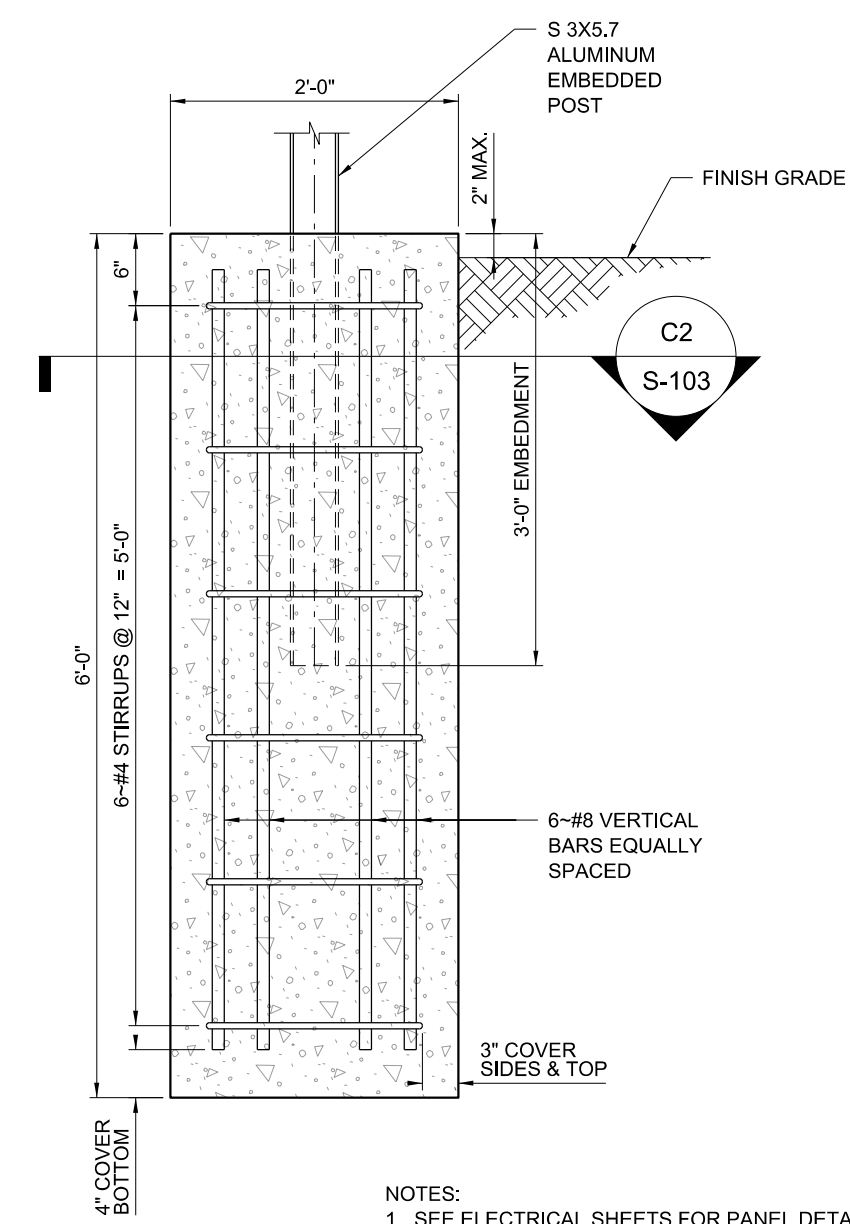
D2 SLAB PIPE PENETRATION DETAIL
SCALE: 3/4" = 1"



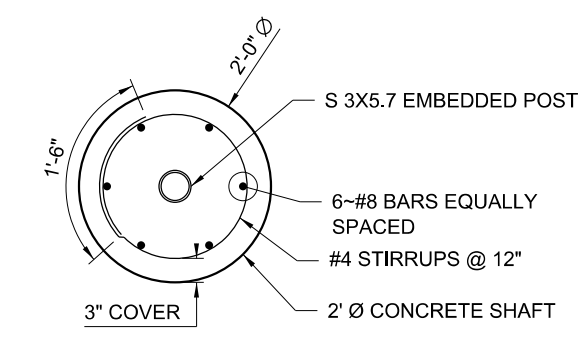
D3 LIFT STATION 9 SLAB TURN DOWN DETAIL
SCALE: 1/2" = 1"



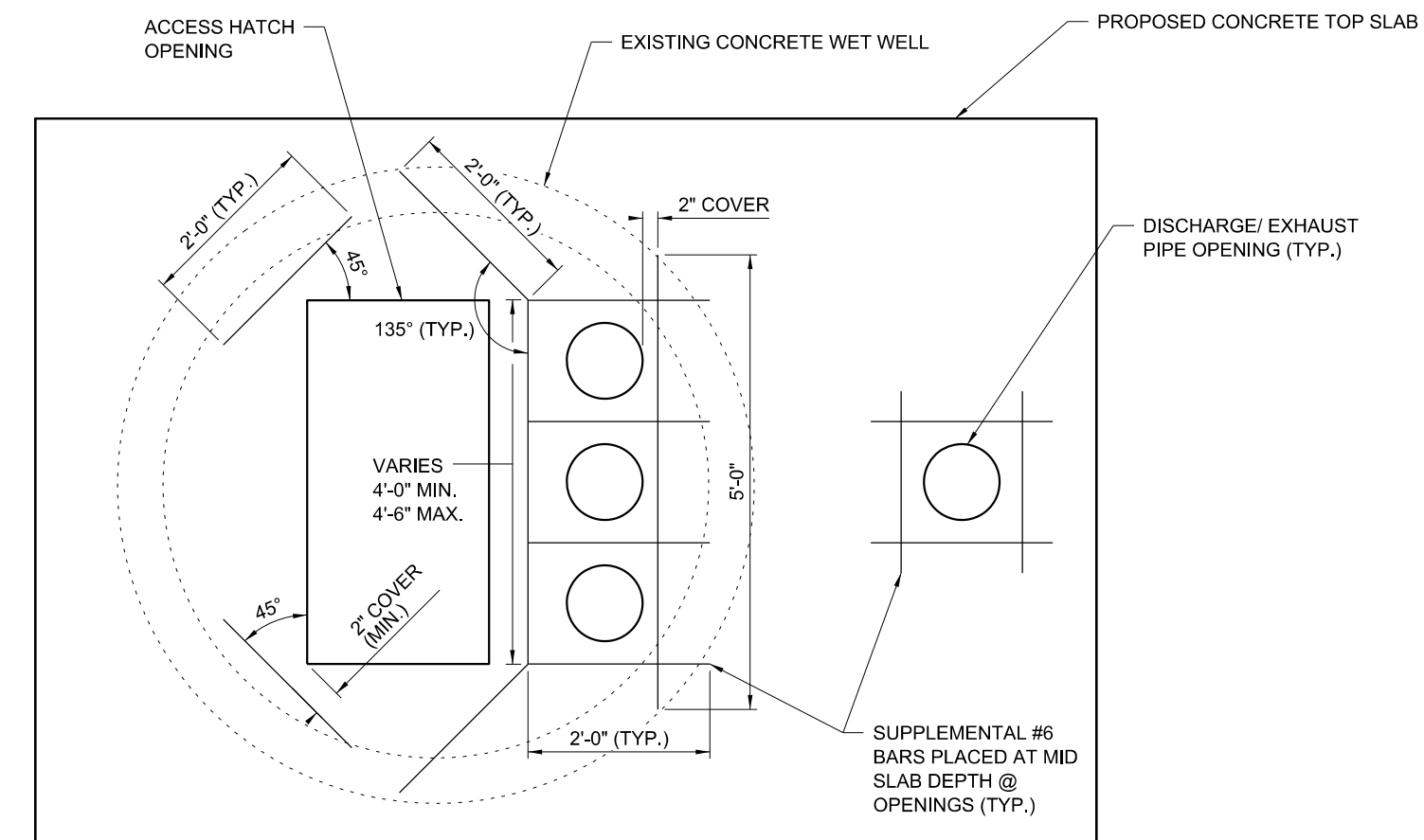
D4 TOP SLAB DEMOLITION DETAILS
SCALE: 1/2" = 1"



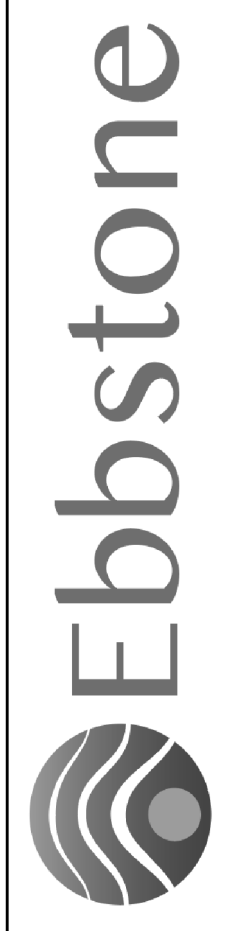
D5 PANEL FOUNDATION DETAIL
SCALE: 1/2" = 1"



C2 PANEL FOUNDATION SECTION
SCALE: 1/2" = 1"



D6 SUPPLEMENTAL OPENING REINFORCING DETAILS
SCALE: 1/2" = 1"



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ENGINEERING THE SOUTH SINCE 1927
449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861
Pensacola - Panama City Beach - Tallahassee - Mobile
ENGINEERING BUSINESS: EB-0000340

ENGINEER OF RECORD
NICHOLAS A. CONLIN, P.E.
LICENSE NUMBER: 86637
EBBSTONE CAPITAL CIRCLE, SUITE J
TALLAHASSEE, FL 32308

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

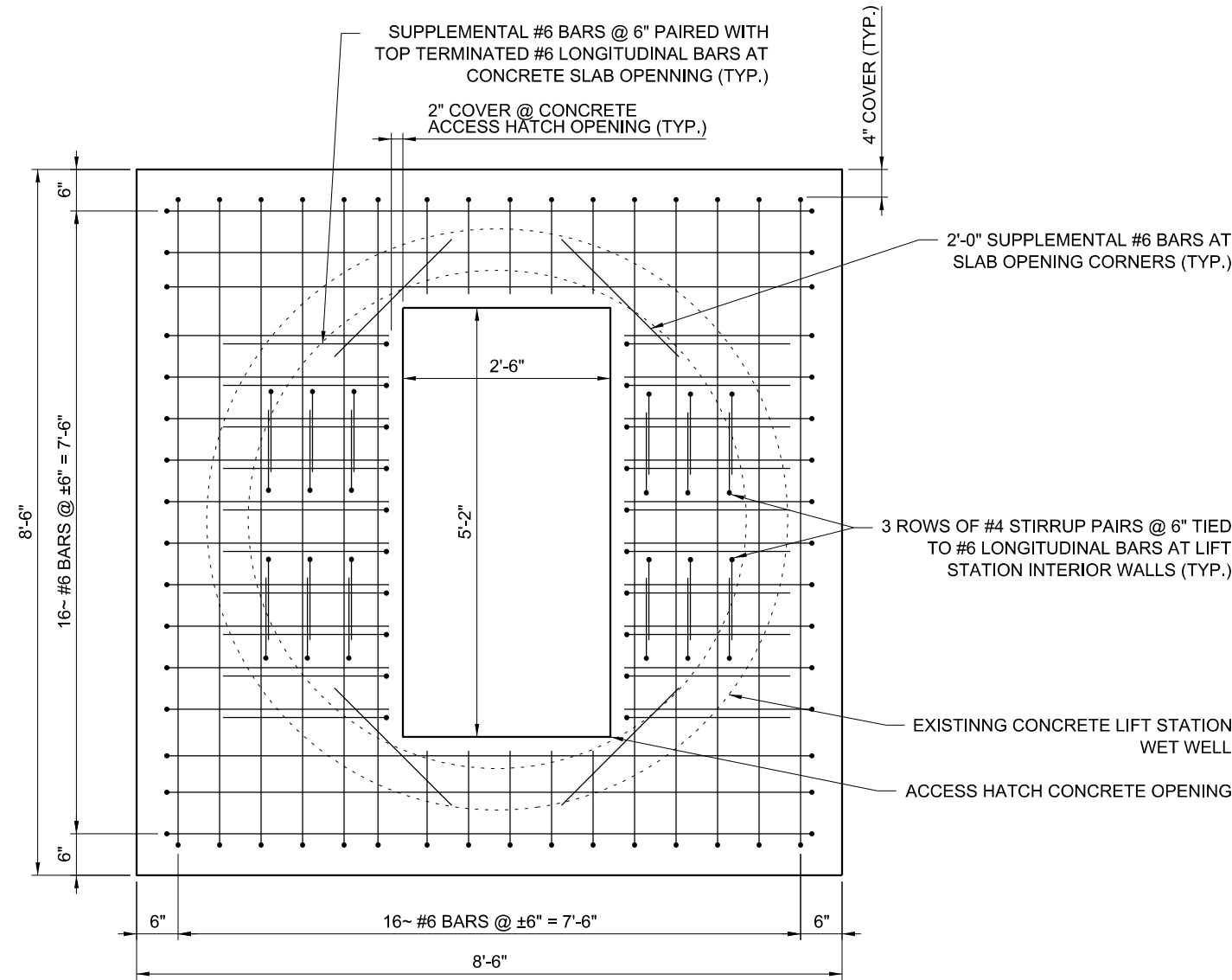
NO.	DATE	APPR.	REVISION / ACTION	TAKEN

PROJECT NO: 123503.01
DESIGNED BY: NAC
DRAWN BY: NAC
CHK'D BY: JFS
PROJ. MGR: JMU
DATE: FEBRUARY 2023

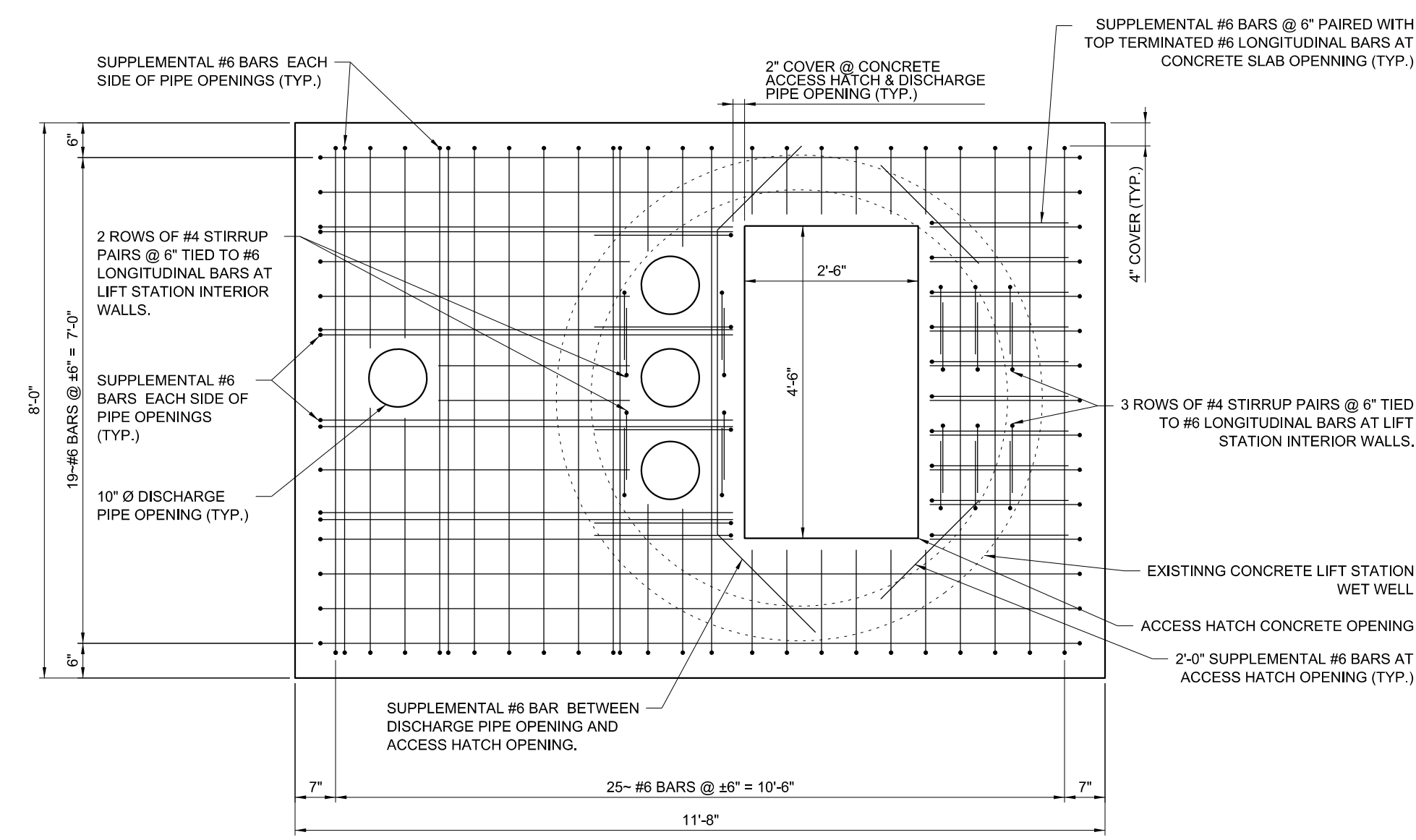
**STRUCTURE
DETAILS**

S-103

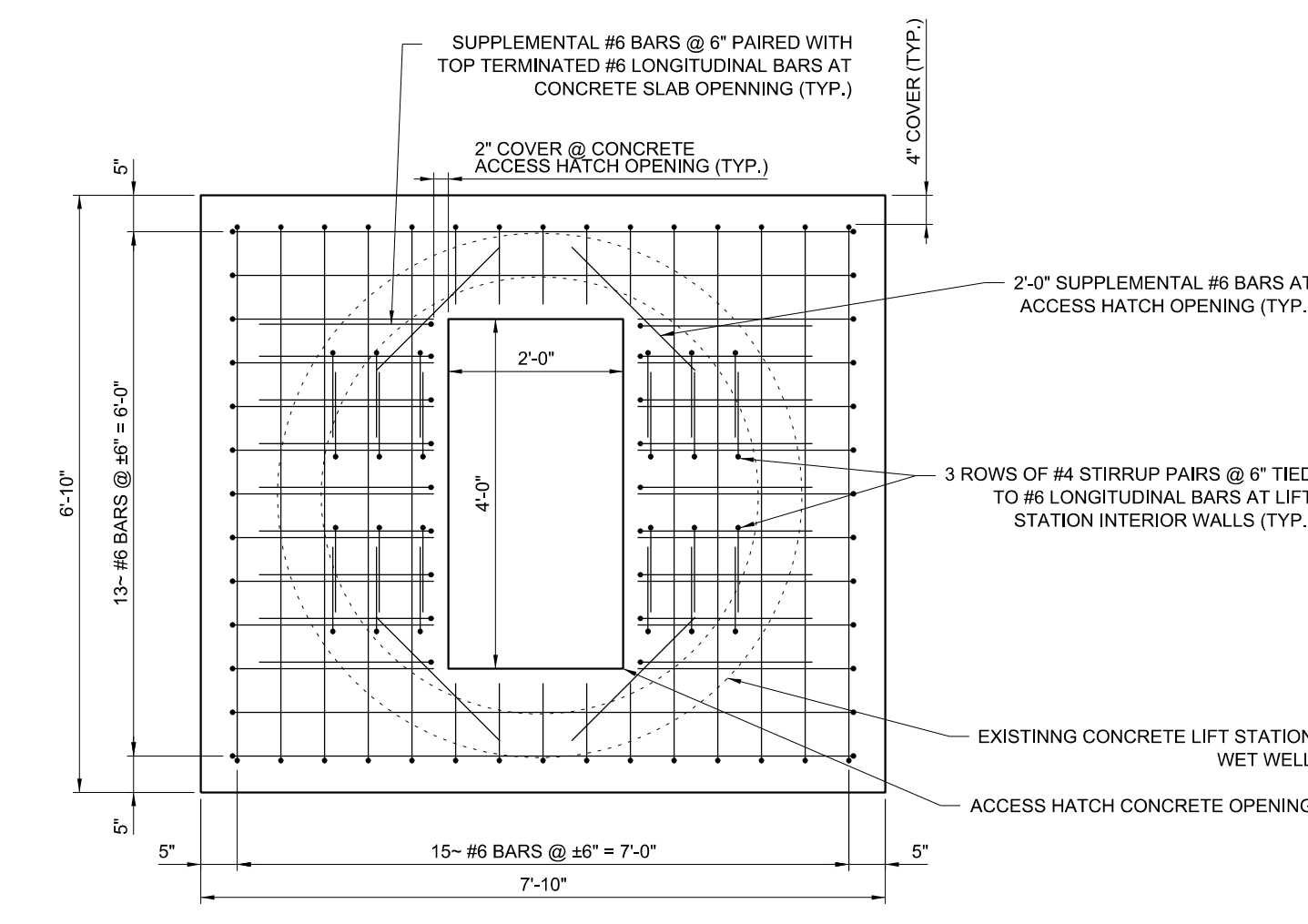
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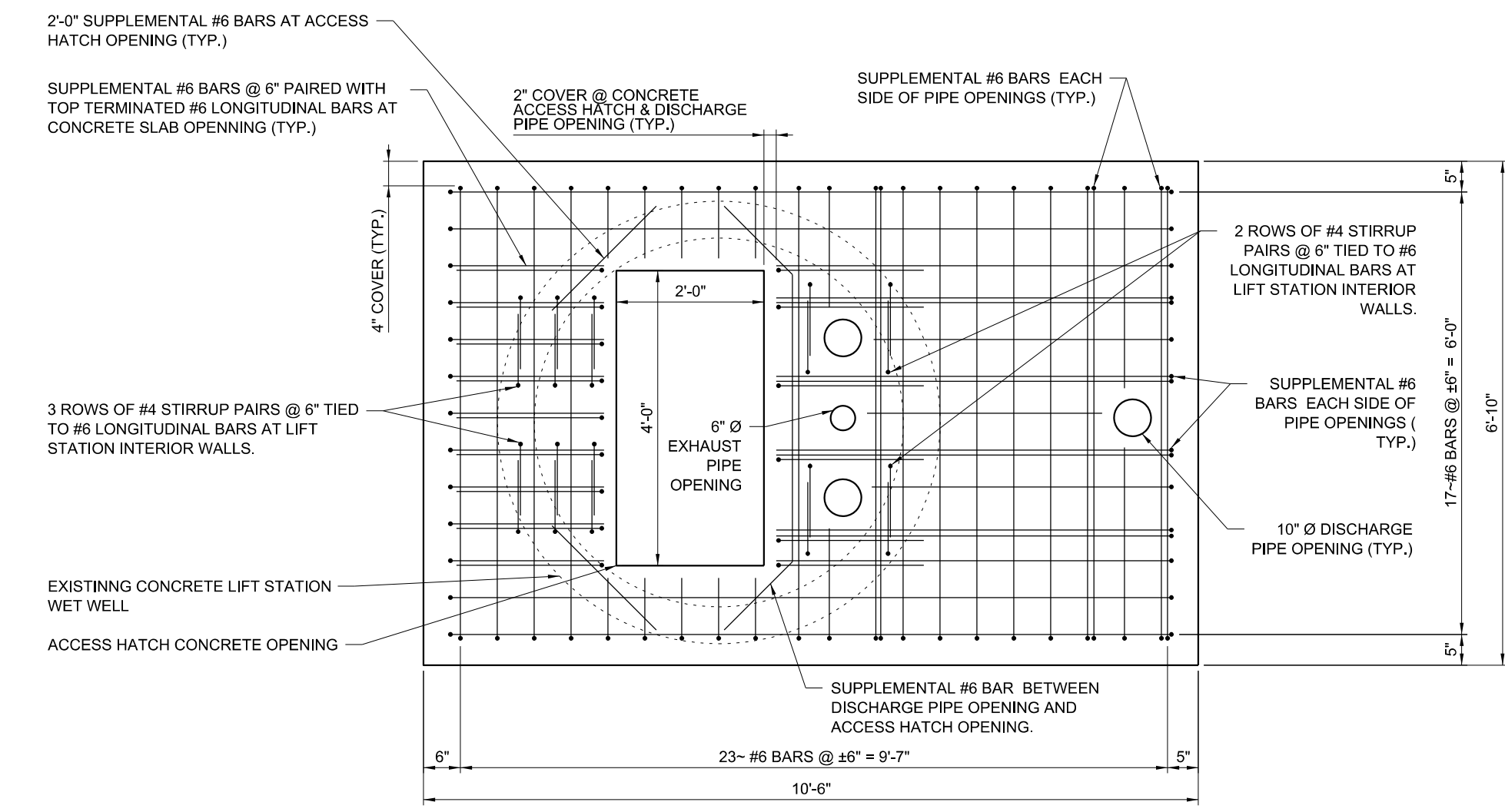
D1 LIFT STATION 1 SLAB REINFORCING DETAIL
SCALE: 1/2" = 1'



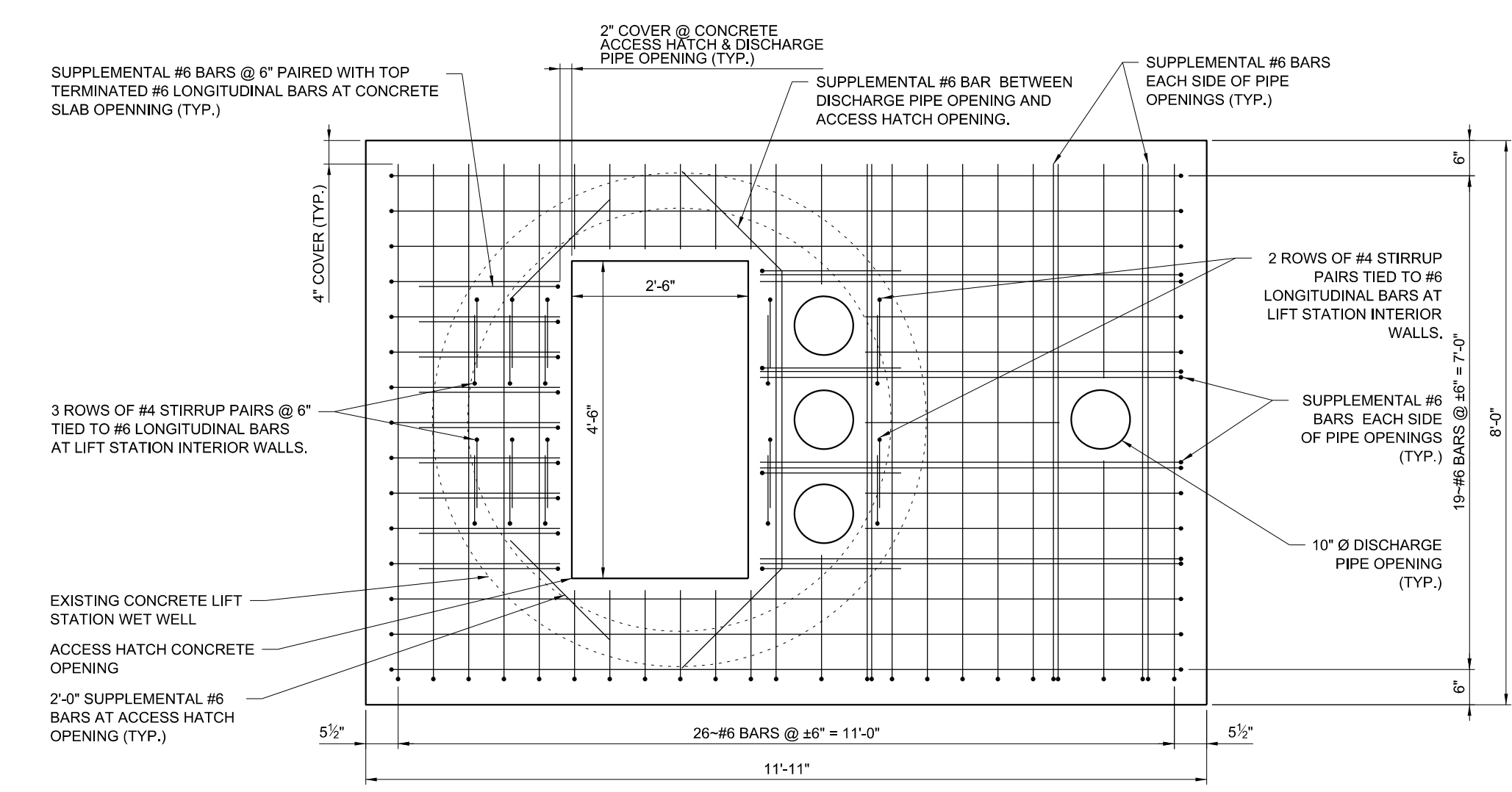
D2 LIFT STATION 6 SLAB REINFORCING DETAIL
SCALE: 1/2" = 1'



D3 LIFT STATION 7 SLAB REINFORCING DETAIL
SCALE: 1/2" = 1'

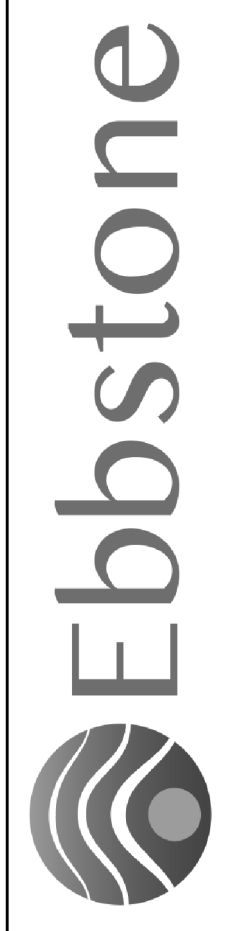


D4 LIFT STATION 9 SLAB REINFORCING DETAIL
SCALE: 1/2" = 1'



D5 LIFT STATION 10 SLAB REINFORCING DETAIL
SCALE: 1/2" = 1'

- NOTES:
1. TOP LAYER OF SLAB REINFORCING SHOWN, BOTTOM OF SLAB REINFORCING LAYER SIMILAR.
 2. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND ORIENTATION OF CONCRETE SLAB AND LIFT STATION PENETRATIONS WITH THE HATCH AND WATER STOP MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS AS WELL AS THE CIVIL AND MECHANICAL SHEETS FOR PROPOSED PIPE AND PUMP PLACEMENT AND ORIENTATION.
 3. CONTRACTOR SHALL CONFIRM THE ADEQUACY OF THE SPECIFIED MINIMUM HATCH SIZE WITH THE PUMP SUPPLIER'S SPECIFICATIONS AND RECOMMENDATIONS. CONTRACTOR SHALL CONFIRM ACCESS HATCH CONCRETE SLAB OPENING DIMENSIONS PRIOR TO CONSTRUCTION.



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Pensacola - Panama City Beach - Tallahassee - Mobile
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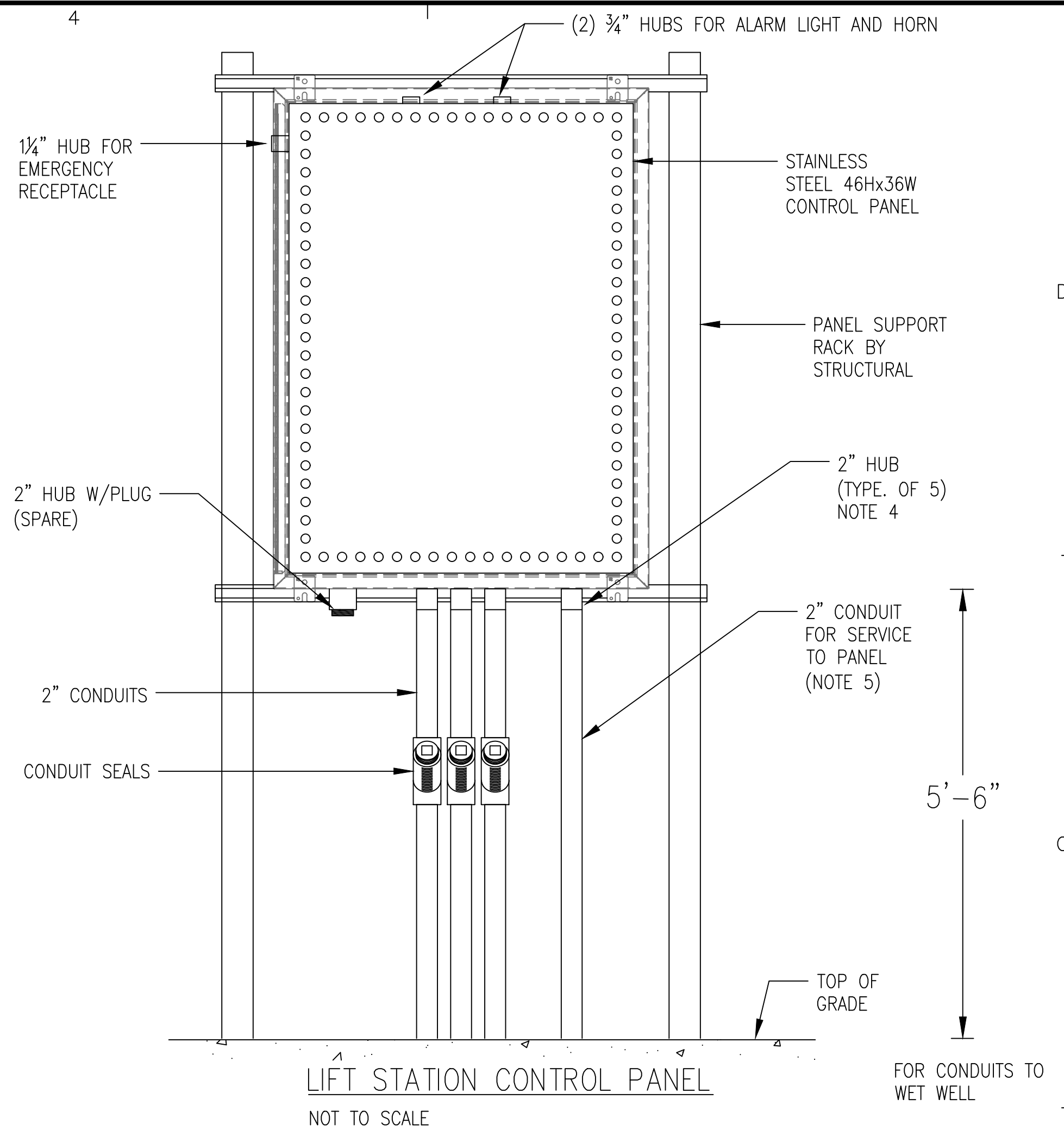
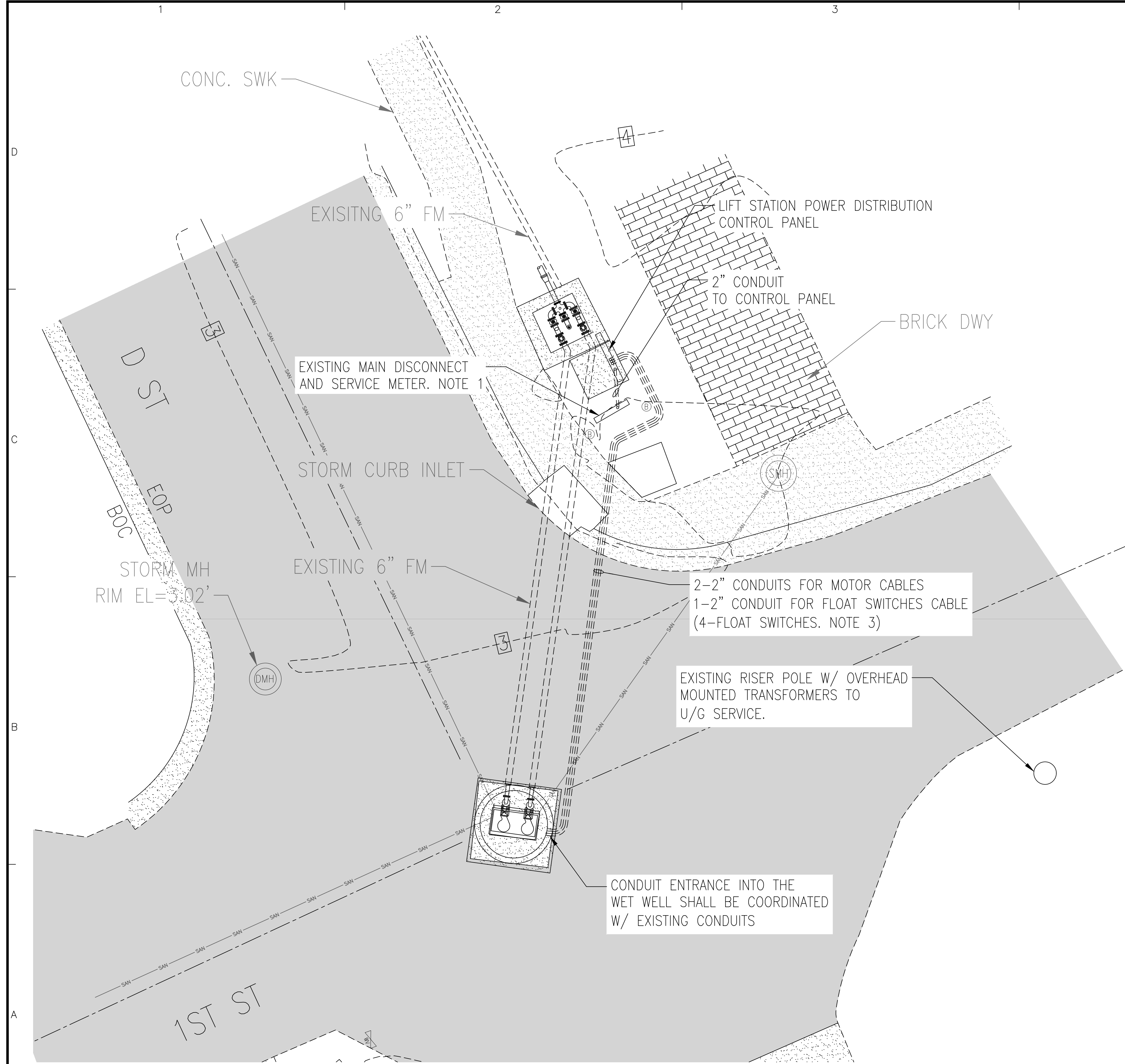
ENGINEER OF RECORD
NICOLAUS A. CONLIN, P.E.
LICENSE NUMBER: 86637
EBBSTONE CAPITAL CIRCLE, NE, SUITE J
5370 CAPITAL CIRCLE, NE, SUITE J
TALLAHASSEE, FL 32308

**CEDAR KEY
SANITARY SEWER
LIFT STATION
REHABILITATION**

PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:	NO.	DATE	APPR.	REVISION / ACTION	TAKEN
123503.01	NAC	NAC	JFS	JMU	FEBRUARY 2023					

**STRUCTURE
DETAILS**

S-104



- NOTES:**
- [1] COORDINATE REWORKING OF SERVICE CONDUITS AND METER ENCLOSURE WITH THE SERVING UTILITY (CENTRAL FLORIDA ELECTRICAL CO-OP; CHIEFLAND,FL)
 - [2] THE CONTROL PANEL SHALL BE INSTALLED ON THE SUPPORT STRUCTURE (SUPPLIED BY OTHERS) AT 5'-6" ABOVE GRADE TO THE BOTTOM OF THE PANEL. THE SUPPLY AND INSTALLATION OF STRUT/HARDWARE TO MOUNT THE PANEL TO THE SUPPORT IS PART OF THE ELECTRICAL WORK.
 - [3] THE FLOAT SWITCHES SHALL BE ANCHOR SCIENTIFIC MINI-FLOATS (SUSPENDED-TYPE-S) OR EQUAL. PROVIDE CABLES OF ADEQUATE LENGTH.
 - [4] CONDUIT FITTINGS/HUBS ARE PART OF THE PANEL/ENCLOSURE. THEY ARE INTENDED TO BE ATTACHED AS PART OF THE MANUFACTURING PROCESS. THE PURCHASE/CONTRACTOR SHALL INDICATE THE LOCATION AND SIZE OF HUBS TO THE VENDOR AS PART OF THE PURCHASING PROCESS. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE NEMA 6 RATING OF THE ENCLOSURE DURING INSTALLATION.
 - [5] THE CONDUIT FOR THE SERVICE SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT ON BOTH ENDS.
 - [6] ALL BELOW GRADE CONDUIT SHALL BE SCH.40 PVC. ALL ABOVE GROUND CONDUIT SHALL BE RIGID IMC. ANY BELOW GRADE METALLIC CONDUIT SHALL BE COATED WITH CORROSION RESISTANT PAINT/COATINGS.BELOW GRADE CONDUIT SHALL BE AT A DEPTH OF 18" MINIMUM.

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 ENGINEERING BUSINESS EB-0000340

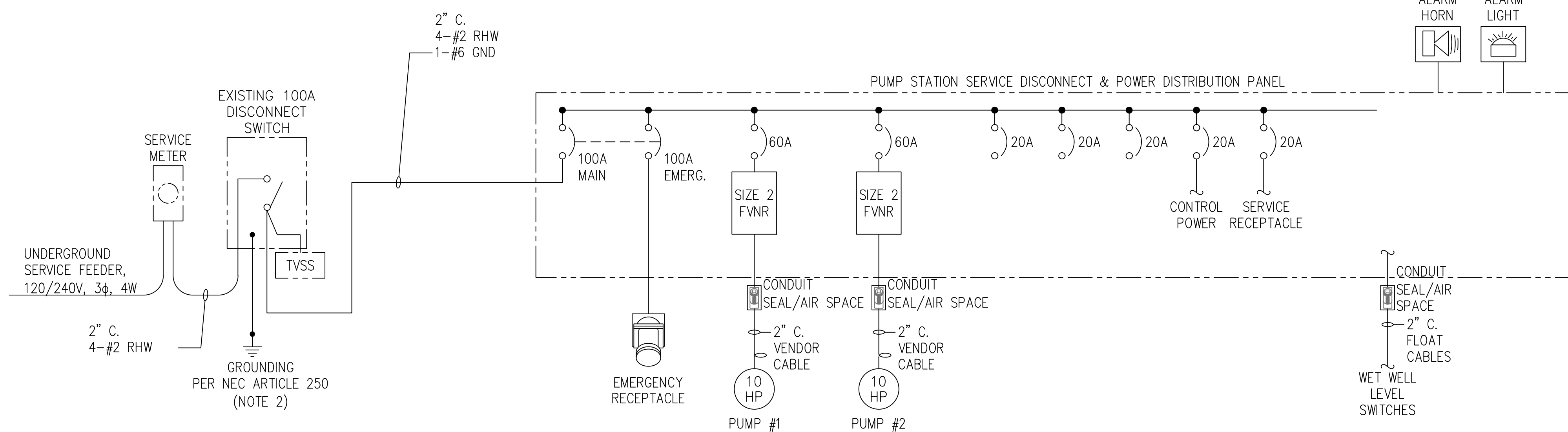
CONAR KEY
 SANITARY SEWER
 LIFT STATION
 RENOVULATION

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	1-31-24	-	100% SUBMITTAL

PROJECT NO: 123503.01
 DESIGNED BY:
 DRAWN BY:
 CHK'D BY:
 PROJ. MGR: JNU
 DATE: FEBRUARY 2023
 NOT RELEASED FOR CONSTRUCTION BY DATE

LS 1
 ELECTRICAL SITE
 PLAN

E-101



LIFT STATION #1 RISER DIAGRAM

NOTE:

- 1 PUMP STATION WET WELL IS A CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATION THAT REQUIRES THE USE OF CONDUIT SEALS, OR AIR SPACE PROVISION, BETWEEN THE WET WELL AND POSSIBLE SOURCES OF IGNITION. CONDUIT SEALS, OR AIR SPACE, SHALL BE PLACED WITHIN (18)EIGHTEEN INCHES OF THE PUMP STATION CONTROL PANEL ENCLOSURE.
- 2 GROUNDING SHALL BE TESTED TO VERIFY THAT RESISTANCE TO EARTH/GROUND IN LESS THAN 26 OHMS. ADDITIONAL GROUNDING RODS SHALL BE INSTALLED (AS REQUIRED) TO ESTABLISH A GROUNDING RESISTANCE OF LESS THAN 26 OHMS. THE GROUNDING TEST SHALL BE COORDINATED WITH AND WITNESSED BY THE OWNER'S REPRESENTATIVE. REFER TO THE OWNER'S STANDARD SPECIFICATIONS.

BILL OF MATERIAL				
ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
1	NEMA 6P ENCLOSURE W/6P HINGED DOOR AND GASKETS 304SS 48x36x12D NOMINAL	NEMACO	N6P-483612-304	1
2	BACK PANEL EPOXY COATED STEEL	NEMACO	N69-IP4836	1
3	HINGED SWING-OUT PANEL - 304SS W/3 POINT TURN LATCH HANDLE	NEMACO	-	1
4	POWER DISTRIBUTION BLOCK 3-POLE 400-#6 1 IN, 2-#14 6 OUT	SQUARE-D	9080LBA363106	1
5	POWER DISTRIBUTION BLOCK 1-POLE 400-#6 1 IN, 2-#14 6 OUT	SQUARE-D	9080LBA163106	1
6	EQUIPMENT GROUND BAR	SQUARE-D	PK9GTA	1
7	PHASE MONITOR RELAY SOCKET	ATC DIVERSIFIED	SLA-230-ALA RB-08	1
8	ALTERNATING RELAY - DUPLEX	ATC DIVERSIFIED	ARA-24-ADA	1
9	BREAKER-60A, THREE-POLE	SQUARE-D	HDL36060	2
9A	EMERGENCY BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9B	MAIN BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9C	H/J FRAME MECHANICAL INTERLOCK FOR TOGGLE HANDLE	SQUARE-D	S29354	2
10	BREAKER-20A, SINGLE POLE	SQUARE-D	BDL16020	5
11	FULL VOLTAGE NON-REVERSING SIZE 2 STARTER	SQUARE-D	85365D01V02H305	2
12	SURGE PROTECTIVE DEVICE	SURGE SUPPRESSION, INC	LS5D-3Y1-D1XS	1
13	35mm DIN RAIL	SQUARE-D	9080MH320	AS REQ'D
14	FEED THROUGH TERMINAL	SQUARE-D	9080GM6	AS REQ'D
15	END BARRIER	SQUARE-D	9080GM6B	AS REQ'D
16	END CLAMP	SQUARE-D	9080MHA10	AS REQ'D
17	INTRINSICALLY SAFE RELAY	R-K ELECTRONICS	ISR-24V-10K	2
18	GEMS ZENER BARRIER	TEQUIPMENT	54801	2
19	PUMP MONITORING/CONTROL RELAY w BASE	PUMP VENDOR		2
20	RELAY, OCTAL PLUG-IN, 3PDT 120VAC w/RELAY SOCKET	EATON	D3RF3A D3PA7	2
21	(NOT USED)	-	-	-
22	RELAY, OCTAL PLUG-IN, 3PDT 24VDC w/RELAY SOCKET	SQUARE-D	D3RF3T1 D3PA7	7
23	MINIATURE PLUG-IN RELAY - 24VDC	SQUARE-D	RXM4AB2BDPVM	1
24	PILOT LIGHT - w/GREEN LENSE	ALLEN-BRADLEY	800T-0TH2G	2
25	3 POSITION SELECTOR SWITCH w/"H-0-A" LEGEND PLATE	ALLEN-BRADLEY	800T-J2B 800T-X511	2
26	HOUR COUNTER PANEL METER	GRASSLIN	UWZ48E-12050U	3
27	PILOT LIGHT - w/RED LENSE	ALLEN-BRADLEY	800T-0TH2R	7
28	EXTERNAL RESET MECHANISM	SQUARE-D	9066RA1	1
29	DUPLEX SERVICE RECEPTACLE 20A, 125VAC, G.F.I. w/COVER	LEVITON	GFWT2-T	1
30	WIREWAY DUCT 2"x4" w/COVER	HOFFMAN	A200400WH A200CWH	AS REQ'D
31	LED ALARM BEACON - 12-24VDC, NEMA 4X	EDWARDS SIGNALING	94PLEDMR24AD	1
32	ALARM HORN - WEATHERPROOF, 24VDC, NEMA 4X	EDWARDS SIGNALING	877-G1	1
33	PUSH BUTTON - MOMENTARY CONTACT, BLACK, 1 NO	ALLEN-BRADLEY	800T-B2D1	1
34	BREAKER-10A, THREE-POLE	SQUARE-D	Q0U310	1
35	EMERGENCY RECEPTACLE - 100A, 3φ 4 WIRE, NEMA 6P/IP67 W/BACK BOX	LEVITON	4100R9W BX100-V	1
36	VIBRATING HORN 120VAL NEMA 4X	EDWARDS	876-N5	1
37	FLASHING ALARM LIGHT - RED LED MICROLERT NEMA 6P CAPABLE	TOMAR ELECTRONICS	290LF-120-240	1

BOM NOTES:
 1 VIBRATING HORN HAS A NEMA 4X ENCLOSURE. THEREFORE CONDUIT INTO THE NEMA 6P PANEL SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT.

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 PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE
 ENGINEERING BUSINESS EB-0000340

CONAR KEY
SANITARY SEWER
LIFT STATION
RENEWAL

PROJECT NO.	DESIGNED BY:	PROJ. MGR:	DATE:
123503.01		JWJ	FEBRUARY 2023

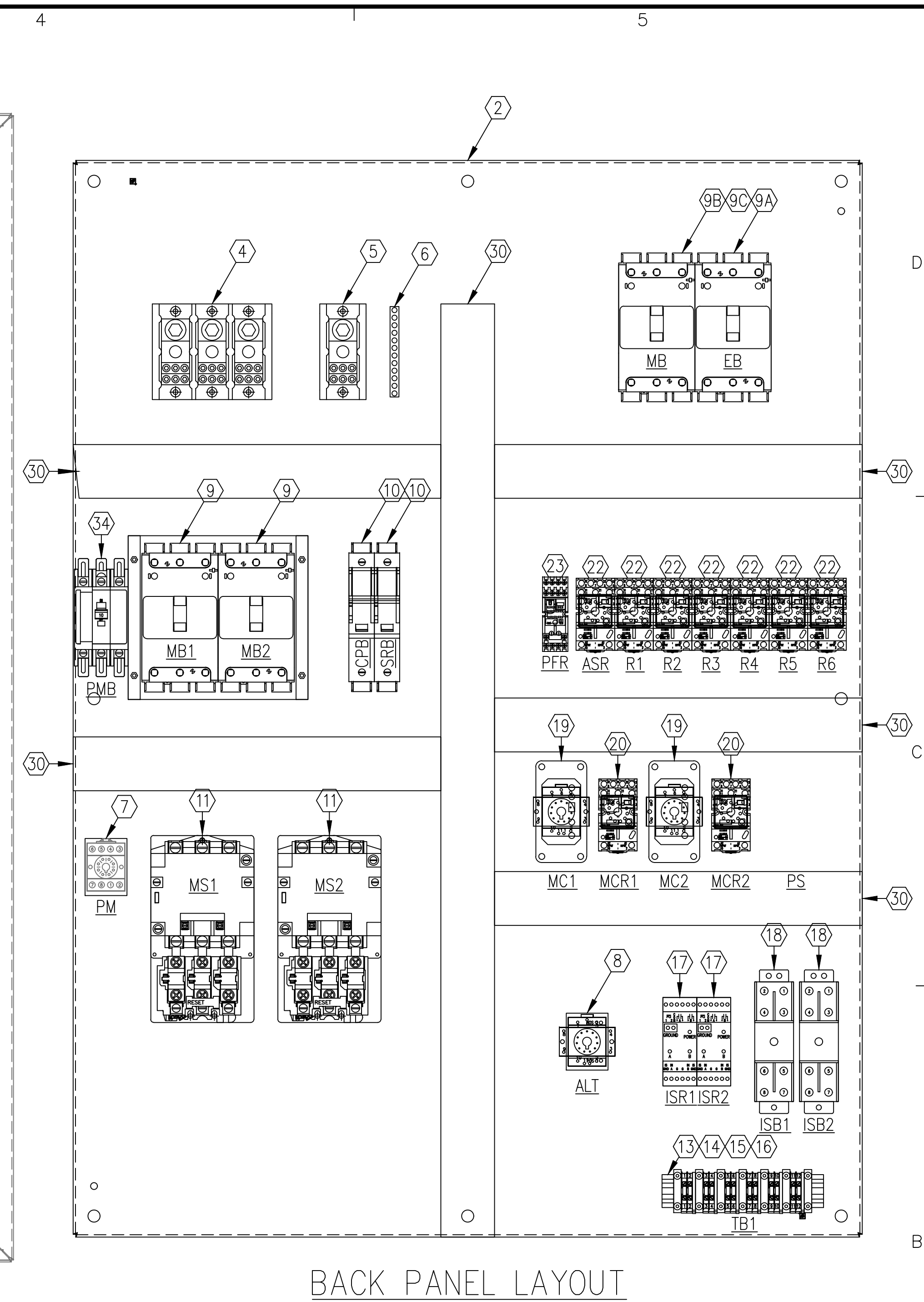
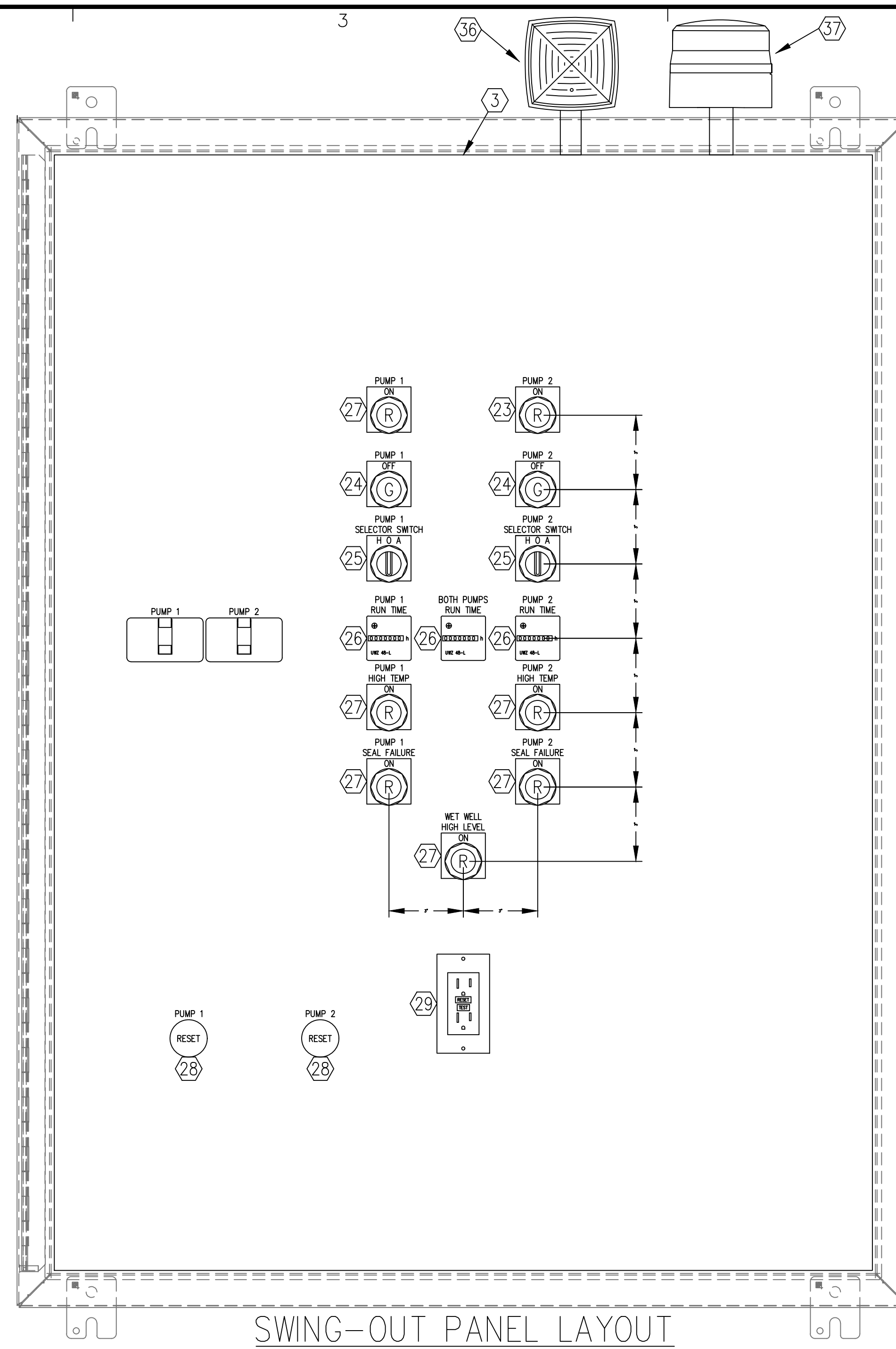
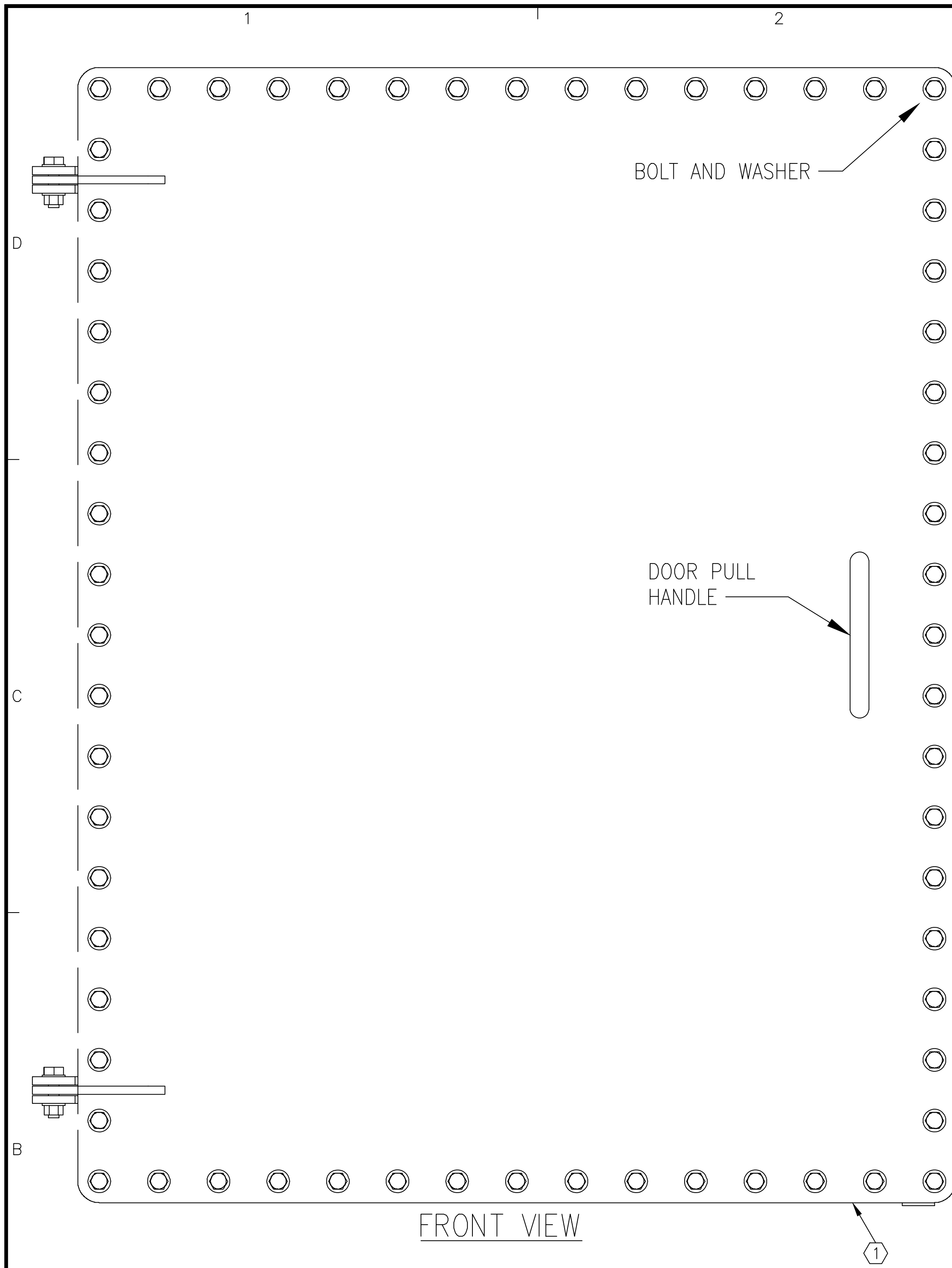
NO.	DATE	REVISION/ACTION TAKEN
1	1-31-24	100% SUBMITTAL

APPR.	DATE	NOT RELEASED FOR CONSTRUCTION BY	DATE
-	-	-	-

LS 1
 ELECTRICAL
 RISER/1-LINE DIAGRAM

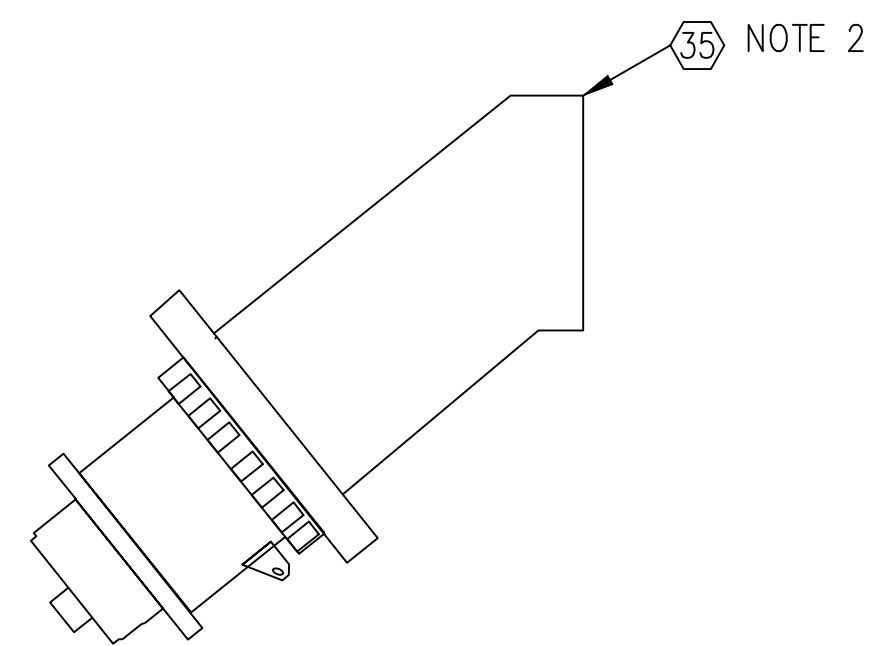
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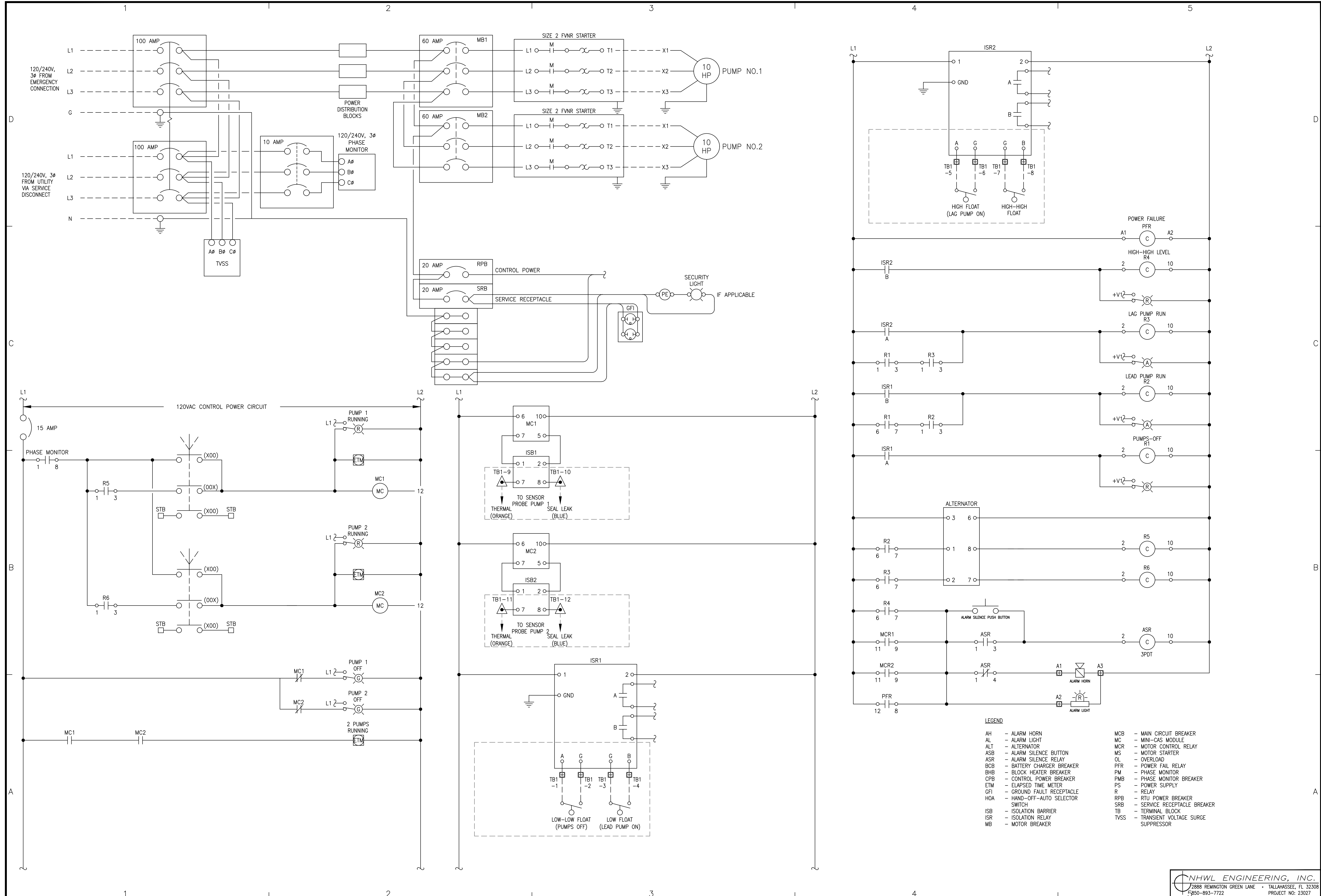
NOTES:

- 1 THE EQUIPMENT AND MATERIALS REFERENCED ON THESE DRAWINGS ARE MEANT TO ESTABLISH A MINIMUM STANDARD FOR CAPABILITY AND QUALITY ASSURANCE. SUBSTITUTIONS OF ANY EQUIPMENT AND/OR MATERIALS ARE TO BE EQUAL OR BETTER THAN THE AFOREMENTIONED EQUIPMENT AND MATERIALS AND ARE SUBJECT TO APPROVAL BY THE OWNER/ENGINEER.
- 2 THE EMERGENCY RECEPTACLE IS TO BE MOUNTED ON THE LEFT SIDE OF THE ENCLOSURE 4" FROM THE TOP. UTILIZE THE 1/4" HUB OF THE ENCLOSURE TO CONNECT THE BACK BOX AND RECEPTACLE.



<p>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 449 W. MAIN ST. PANASCOLA, FL 32503 (850) 438-9861 ENGINEERING BUSINESS EB00000340 Pensacola - Panama City Beach - Tallahassee - Mobile</p>									
<p>CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION</p>									
<p>PROJECT NO: 123503.01</p>	<p>REVISION/ACTION TAKEN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>APPR.</th> <th>100% SUBMITTAL</th> </tr> <tr> <td>1</td> <td>1-31-24</td> <td>-</td> <td></td> </tr> </table>	NO.	DATE	APPR.	100% SUBMITTAL	1	1-31-24	-	
NO.	DATE	APPR.	100% SUBMITTAL						
1	1-31-24	-							
<p>DESIGNED BY:</p> <p>DRAWN BY:</p> <p>CHK'D BY:</p> <p>PROJ. MGR: JMU</p> <p>DATE: FEBRUARY 2023</p>	<p>NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____</p>								
<p>LS 1 ELECTRICAL CONTROL PANEL LAYOUT</p>									
<p>E-103</p>									

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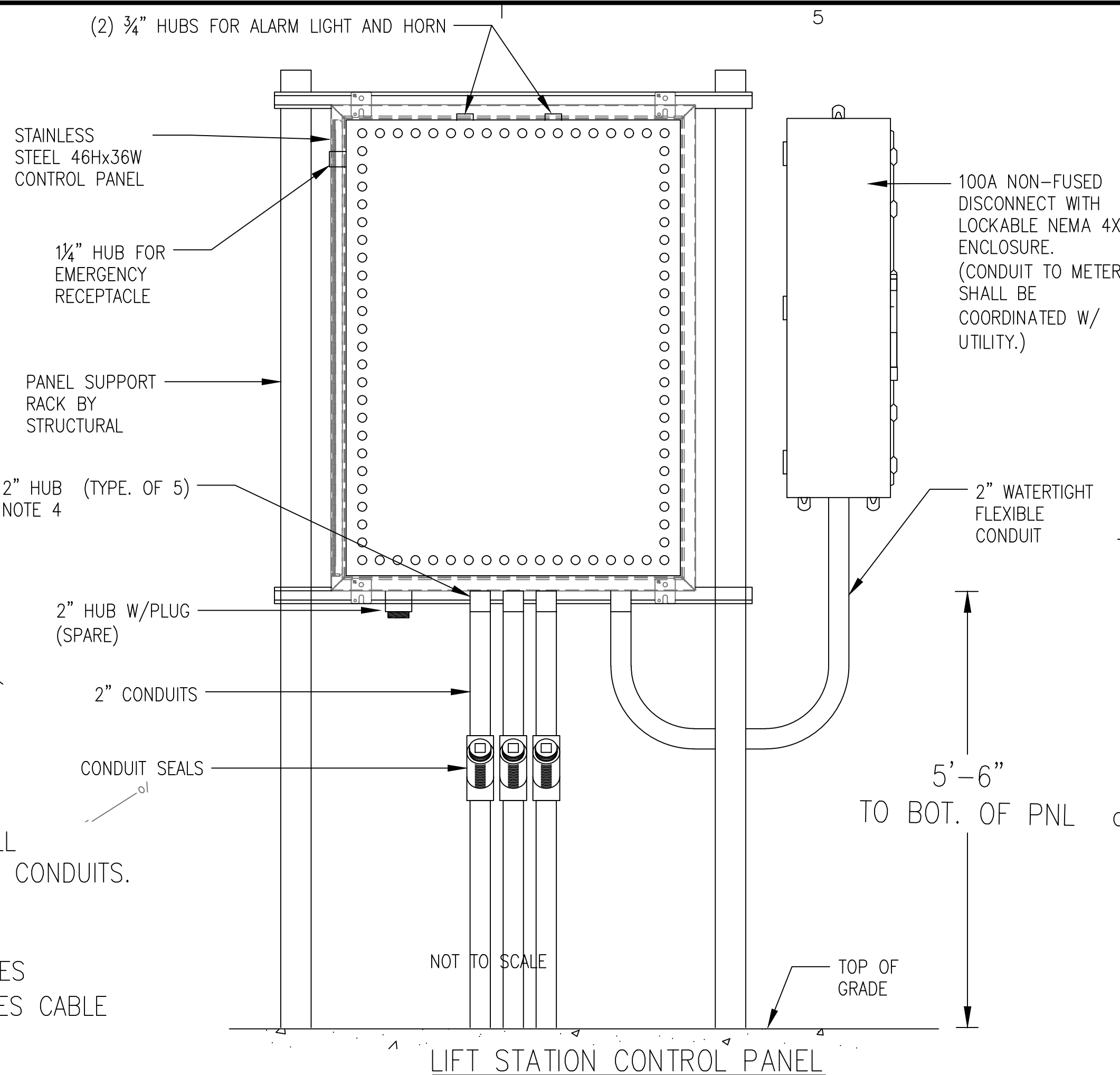
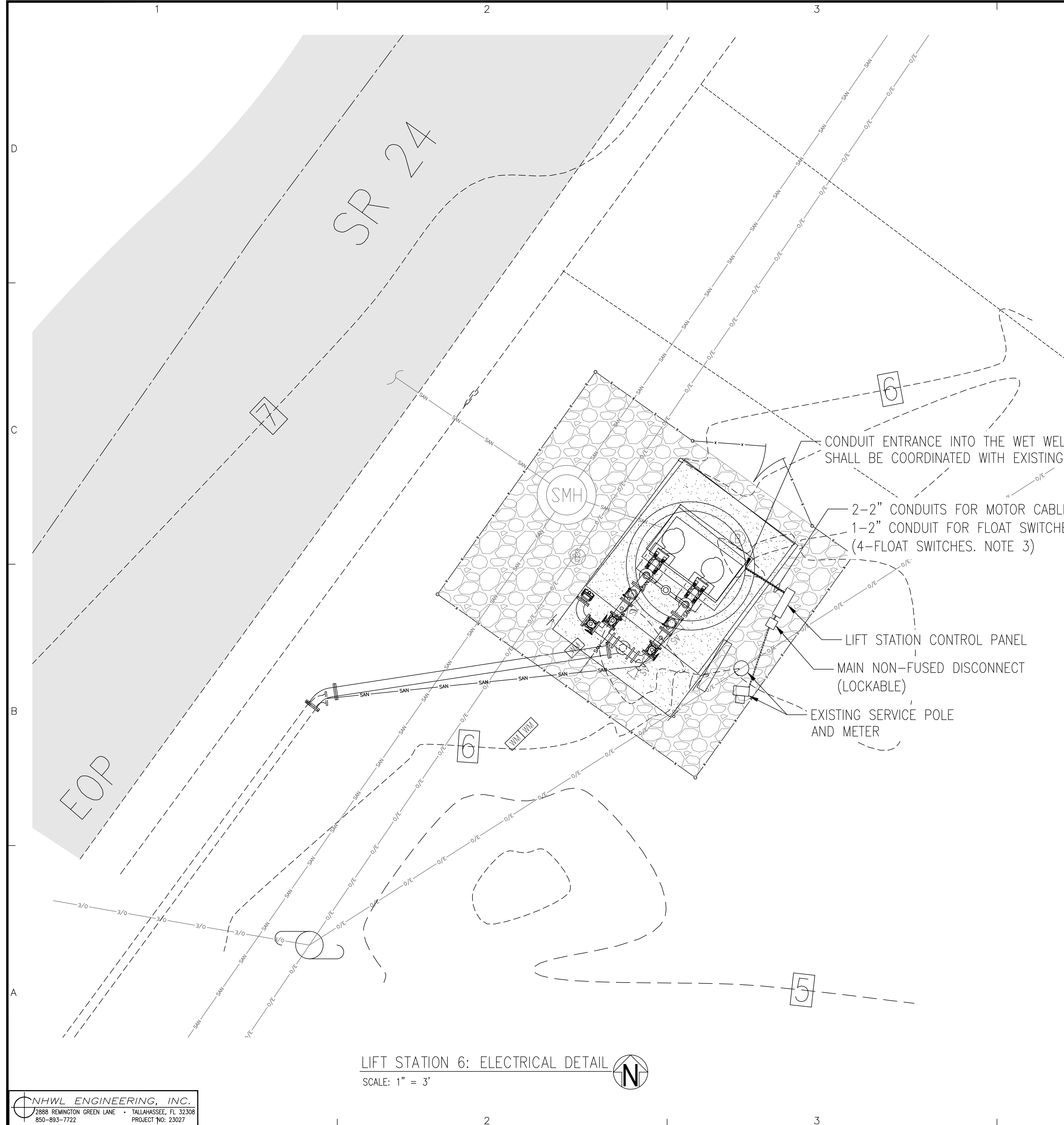
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 ENGINEERING THE SOUTH SINCE 1927
 448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9661
 PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE
 ENGINEERING BUSINESS EB-0000340

CONAR KEY
SANITARY SEWER
LIFT STATION
RENOVATION

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	-	1-31-24	-	100% SUBMITTAL

DESIGNED BY:
 DRAWN BY:
 CHK'D BY:
 PROJ. MGR: JMU
 DATE: FEBRUARY 2023

LS 1
 ELECTRICAL WIRING
 DIAGRAM
 E-104

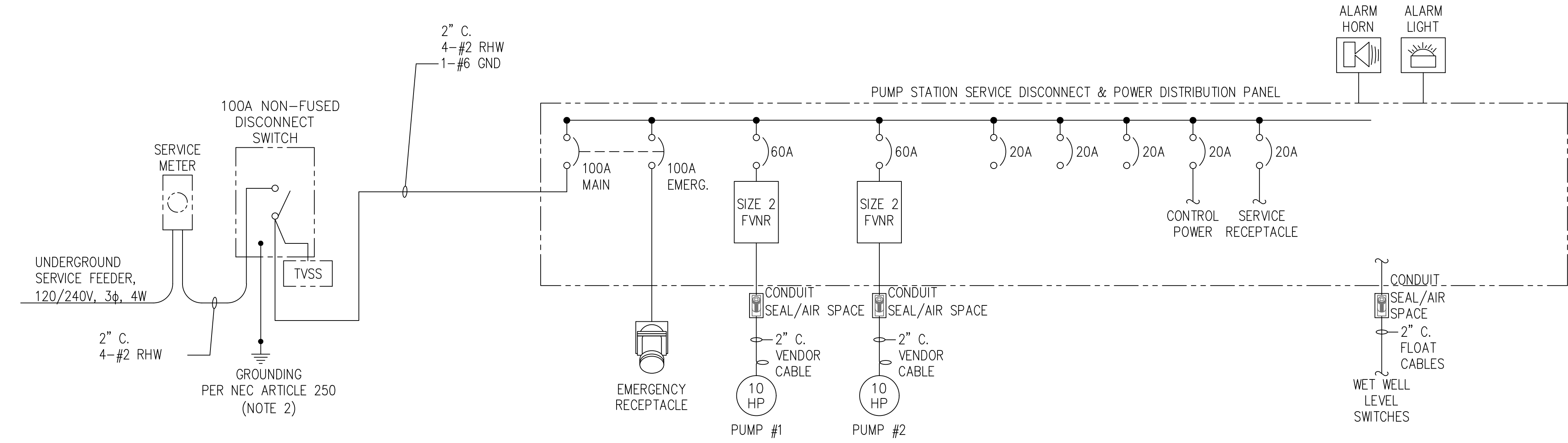


- NOTES:**
- [1] COORDINATE REWORKING OF SERVICE CONDUITS AND METER ENCLOSURE WITH THE SERVING UTILITY (CENTRAL FLORIDA ELECTRICAL CO-OP; CHIEFLAND, FL)
 - [2] THE CONTROL PANEL SHALL BE INSTALLED ON THE SUPPORT STRUCTURE (SUPPLIED BY OTHERS) AT 5'-6" ABOVE GRADE TO THE BOTTOM OF THE PANEL. THE SUPPLY AND INSTALLATION OF STRUT/HARDWARE TO MOUNT THE PANEL TO THE SUPPORT IS PART OF THE ELECTRICAL WORK.
 - [3] THE FLOAT SWITCHES SHALL BE ANCHOR SCIENTIFIC MINI-FLOATS (SUSPENDED-TYPE-S) OR EQUAL. PROVIDE CABLES OF ADEQUATE LENGTH.
 - [4] MAIN DISCONNECT MAY BE MOUNTED ON THE BACK OF THE SUPPORT FRAME. MOUNT DISCONNECT AS HIGH AS POSSIBLE ON THE SUPPORT FRAME. THE CONDUIT FOR THE SERVICE SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT ON BOTH ENDS.
 - [5] CONDUIT FITTINGS/HUBS ARE PART OF THE PANEL/ENCLOSURE. THEY ARE INTENDED TO BE ATTACHED AS PART OF THE MANUFACTURING PROCESS. THE PURCHASE/CONTRACTOR SHALL INDICATE THE LOCATION AND SIZE OF HUBS TO THE VENDOR AS PART OF THE PURCHASING PROCESS. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE NEMA 6 RATING OF THE ENCLOSURE DURING INSTALLATION.
 - [6] ALL BELOW GRADE CONDUIT SHALL BE SCH.40 PVC. ALL ABOVE GROUND CONDUIT SHALL BE RIGID IMC. ANY BELOW GRADE METALLIC CONDUIT SHALL BE COATED WITH CORROSION RESISTANT PAINT/COATINGS. BELOW GRADE CONDUIT SHALL BE AT A DEPTH OF 18" MINIMUM.

LIFT STATION 6: ELECTRICAL DETAIL
 SCALE: 1" = 3'

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	1-31-24	-	100% SUBMITTAL

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LIFT STATION #6 RISER DIAGRAM

- NOTE:
- PUMP STATION WET WELL IS A CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATION THAT REQUIRES THE USE OF CONDUIT SEALS, OR AIR SPACE PROVISION, BETWEEN THE WET WELL AND POSSIBLE SOURCES OF IGNITION. CONDUIT SEALS, OR AIR SPACE, SHALL BE PLACED WITHIN (18)EIGHTEEN INCHES OF THE PUMP STATION CONTROL PANEL ENCLOSURE.
 - GROUNDING SHALL BE TESTED TO VERIFY THAT RESISTANCE TO EARTH/GROUND IN LESS THAN 26 OHMS. ADDITIONAL GROUND RODS SHALL BE INSTALLED (AS REQUIRED) TO ESTABLISH A GROUNDING RESISTANCE OF LESS THAN 26 OHMS. THE GROUNDING TEST SHALL BE COORDINATED WITH AND WITNESSED BY THE OWNER'S REPRESENTATIVE. REFER TO THE OWNER'S STANDARD SPECIFICATIONS.

BILL OF MATERIAL				
ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
1	NEMA 6P ENCLOSURE W/6P HINGED DOOR AND GASKETS 304SS 48Hx36Wx12D NOMINAL	NEMACO	N6P-483612-304	1
2	BACK PANEL EPOXY COATED STEEL	NEMACO	N69-IP4836	1
3	HINGED SWING-OUT PANEL - 304SS W/3 POINT TURN LATCH HANDLE	NEMACO	-	1
4	POWER DISTRIBUTION BLOCK 3-POLE 400-#6 1 IN. 2-#14 6 OUT	SQUARE-D	9080LBA363106	1
5	POWER DISTRIBUTION BLOCK 1-POLE 400-#6 1 IN. 2-#14 6 OUT	SQUARE-D	9080LBA163106	1
6	EQUIPMENT GROUND BAR	SQUARE-D	PK9GTA	1
7	PHASE MONITOR RELAY SOCKET	ATC DIVERSIFIED	SLA-230-ALA RB-08	1
8	ALTERNATING RELAY - DUPLEX	ATC DIVERSIFIED	ARA-24-ADA	1
9	BREAKER-60A, THREE POLE	SQUARE-D	HDL36060	2
9A	EMERGENCY BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9B	MAIN BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9C	H/J FRAME MECHANICAL INTERLOCK FOR TOGGLE HANDLE	SQUARE-D	S29354	2
10	BREAKER-20A, SINGLE POLE	SQUARE-D	BDL16020	5
11	FULL VOLTAGE NON-REVERSING SIZE 2 STARTER	SQUARE-D	85365D01V02H305	2
12	SURGE PROTECTIVE DEVICE	SURGE SUPPRESSION, INC	LS2D-3Y1-D1XS	1
13	35mm DIN RAIL	SQUARE-D	9080MH320	AS REQ'D
14	FEED THROUGH TERMINAL	SQUARE-D	9080GM6	AS REQ'D
15	END BARRIER	SQUARE-D	9080GM6B	AS REQ'D
16	END CLAMP	SQUARE-D	9080MHA10	AS REQ'D
17	INTRINSICALLY SAFE RELAY	R-K ELECTRONICS	ISR-24V-10K	2
18	GEMS ZENER BARRIER	TEQUIPMENT	54801	2
19	PUMP MONITORING/CONTROL RELAY w BASE	PUMP VENDOR		2
20	RELAY, OCTAL PLUG-IN, 3PDT 120VAC w/RELAY SOCKET	EATON	D3RF3A D3PA7	2
21	(NOT USED)	-	-	-
22	RELAY, OCTAL PLUG-IN, 3PDT 24VDC w/RELAY SOCKET	SQUARE-D	D3RF3T1 D3PA7	7
23	MINIATURE PLUG-IN RELAY - 24VDC	SQUARE-D	RXM4AB2BDPVM	1
24	PILOT LIGHT - w/GREEN LENSE	ALLEN-BRADLEY	800T-QTH2G	2
25	3 POSITION SELECTOR SWITCH w/"H-0-A" LEGEND PLATE	ALLEN-BRADLEY	800T-J2B 800T-X511	2
26	HOUR COUNTER PANEL METER	GRASSLIN	UWZ48E-12050U	3
27	PILOT LIGHT - w/RED LENSE	ALLEN-BRADLEY	800T-QTH2R	7
28	EXTERNAL RESET MECHANISM	SQUARE-D	9066RA1	1
29	DUPLEX SERVICE RECEPTACLE 20A, 125VAC, G.F.I. w/COVER	LEVITON	GFWT2-T	1
30	WIREWAY DUCT 2"x4" w/COVER	HOFFMAN	A200400WH A200CWH	AS REQ'D
31	LED ALARM BEACON - 12-24VDC, NEMA 4X	EDWARDS SIGNALING	94PLEDMR24AD	1
32	ALARM HORN - WEATHERPROOF, 24VDC, NEMA 4X	EDWARDS SIGNALING	877-G1	1
33	PUSH BUTTON - MOMENTARY CONTACT, BLACK, 1 NO	ALLEN-BRADLEY	800T-B2D1	1
34	BREAKER-10A, THREE POLE	SQUARE-D	QOU310	1
35	EMERGENCY RECEPTACLE - 100A, 3φ 4 WIRE, NEMA 6P/IP67 W/BACK BOX	LEVITON	4100R9W BX100-V	1
36	VIBRATING HORN 120VAL NEMA 4X	EDWARDS	876-N5	1
37	FLASHING ALARM LIGHT - RED LED MICROLERT NEMA 6P CAPABLE	TOMAR ELECTRONICS	290LF-120-240	1

BOM NOTES:
 1 VIBRATING HORN HAS A NEMA 4X ENCLOSURE. THEREFORE CONDUIT INTO THE NEMA 6P PANEL SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT.

BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9681
 ENGINEERING BUSINESS EB-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile
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CONAR KEY
SANITARY SEWER
LIFT STATION
RENEWAL

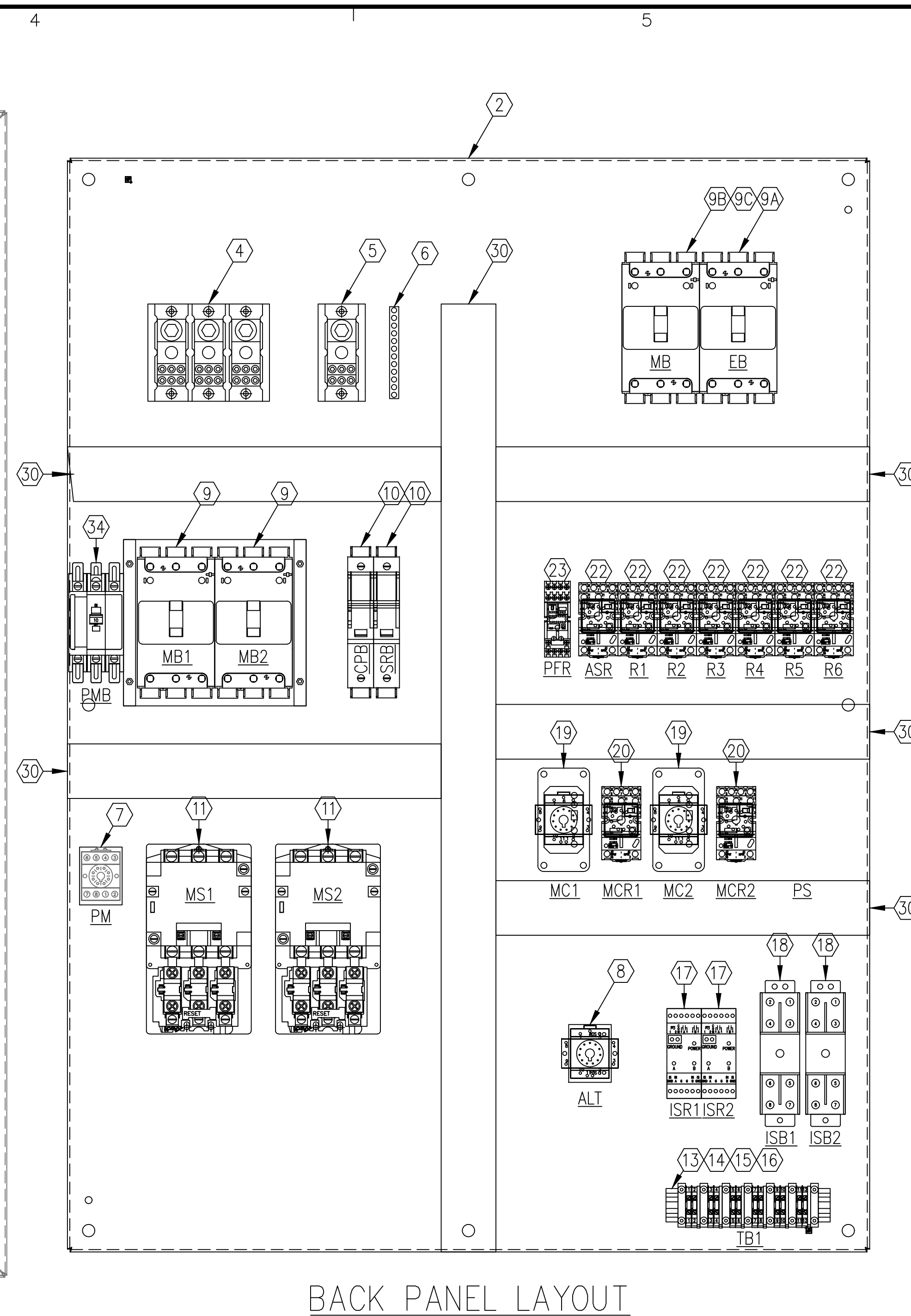
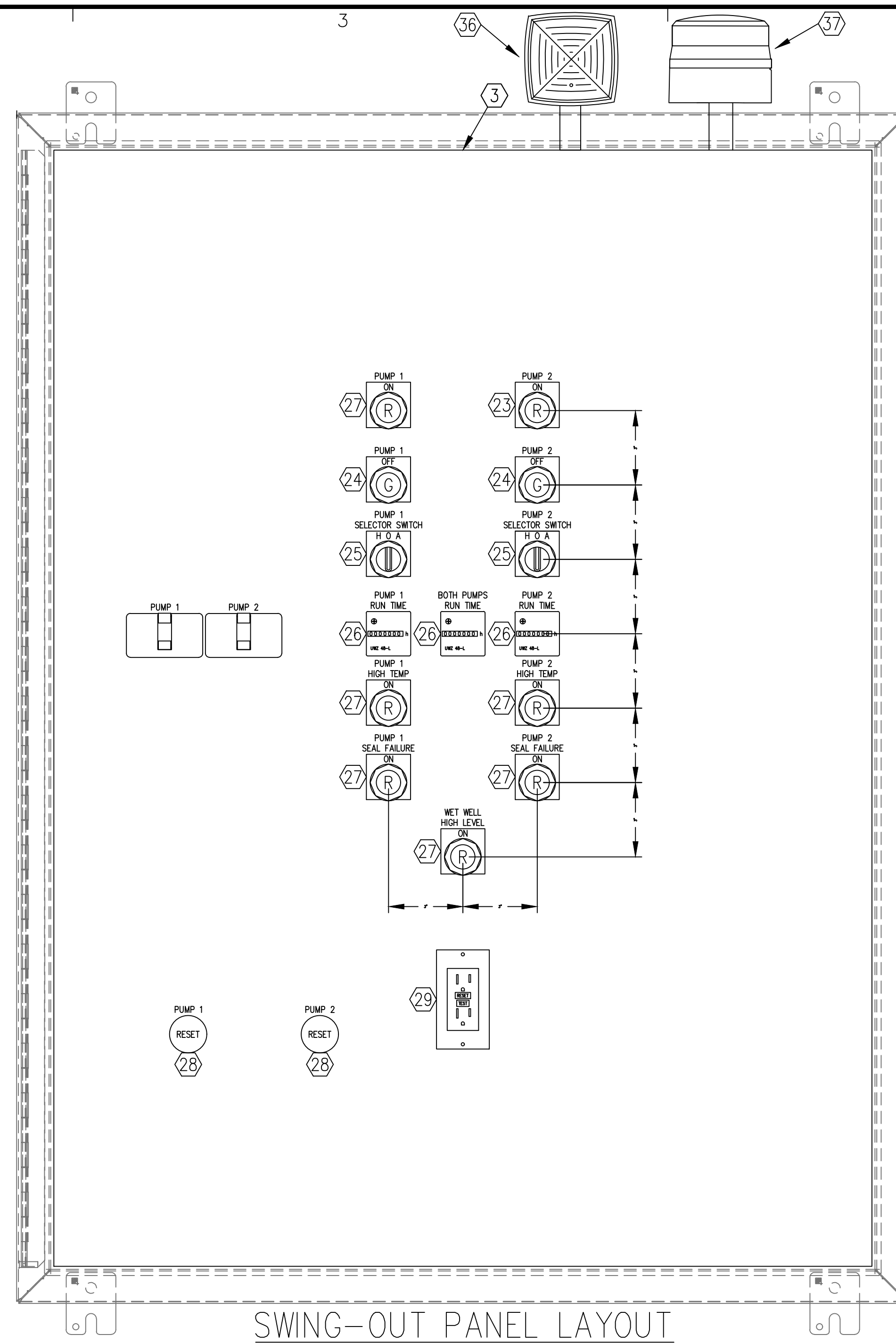
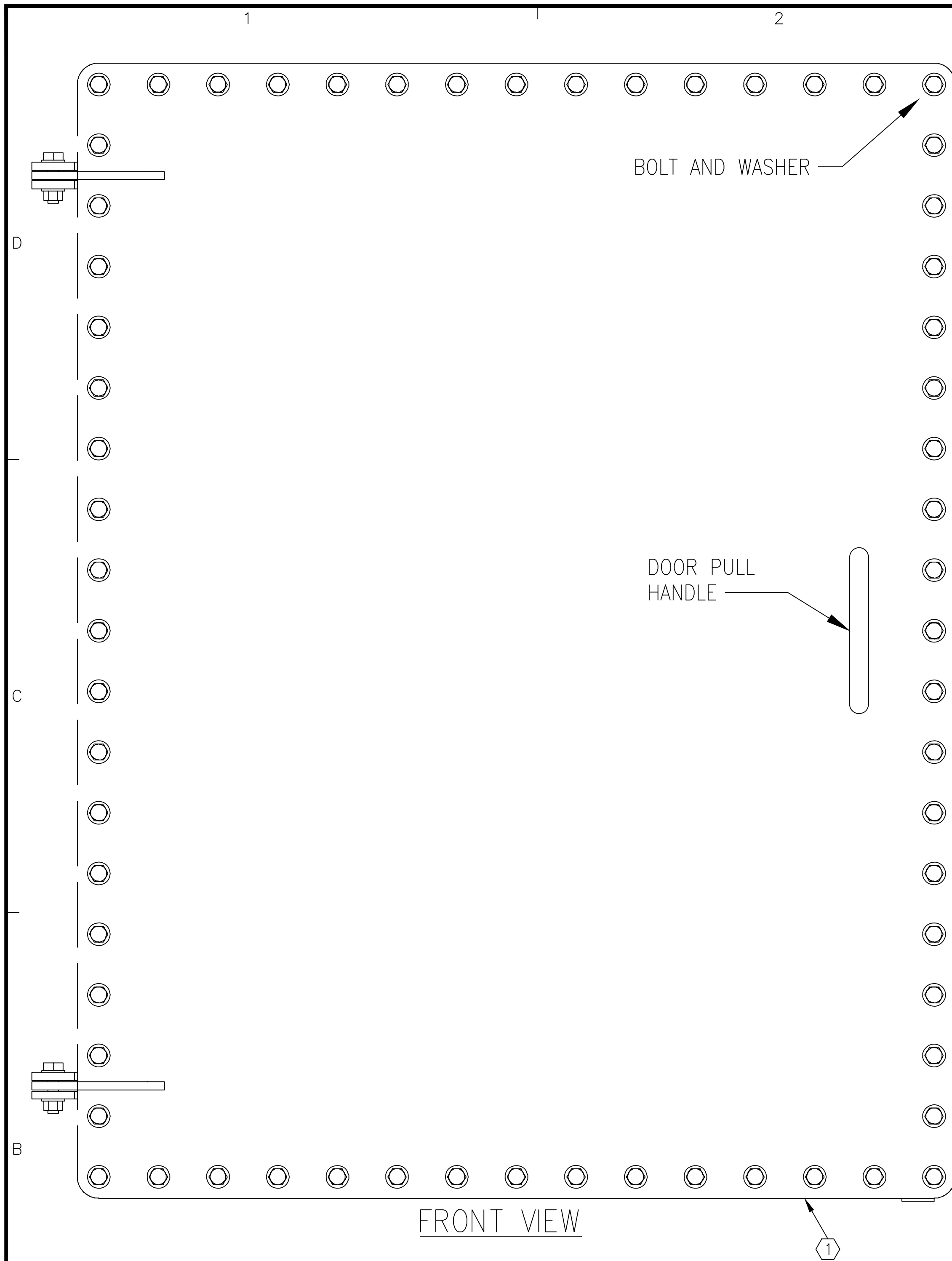
PROJECT NO.	DESIGNED BY:	PROJ. MGR:	DATE:
123503.01		JNU	FEBRUARY 2023

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	1-31-24		100% SUBMITTAL

NOT RELEASED FOR CONSTRUCTION BY	DATE

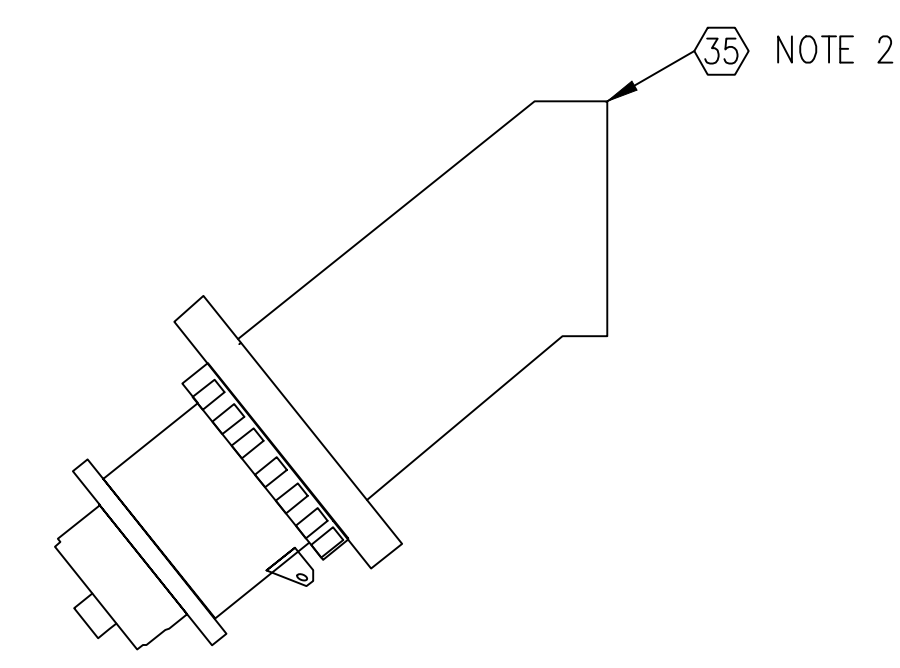
LS 6
 ELECTRICAL
 RISER/1-LINE DIAGRAM

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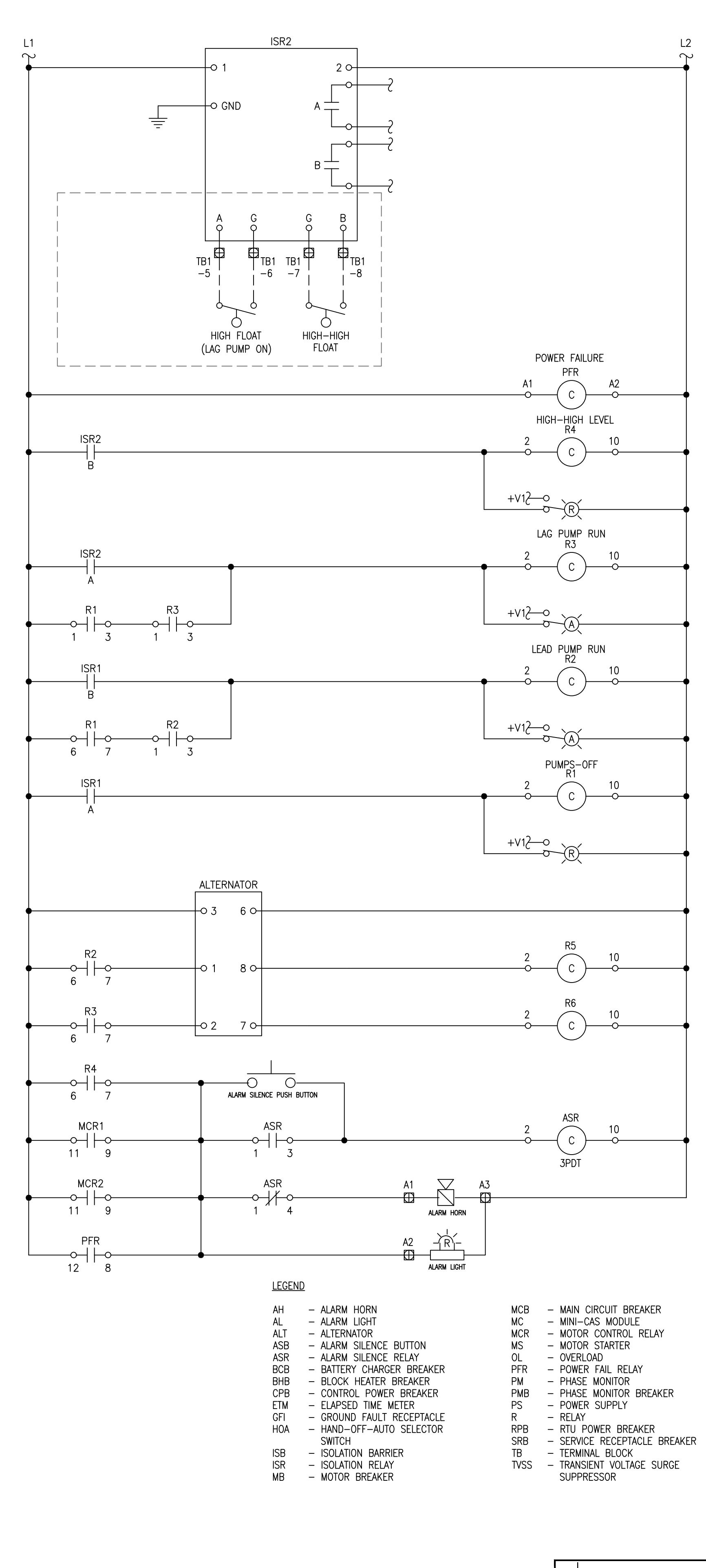
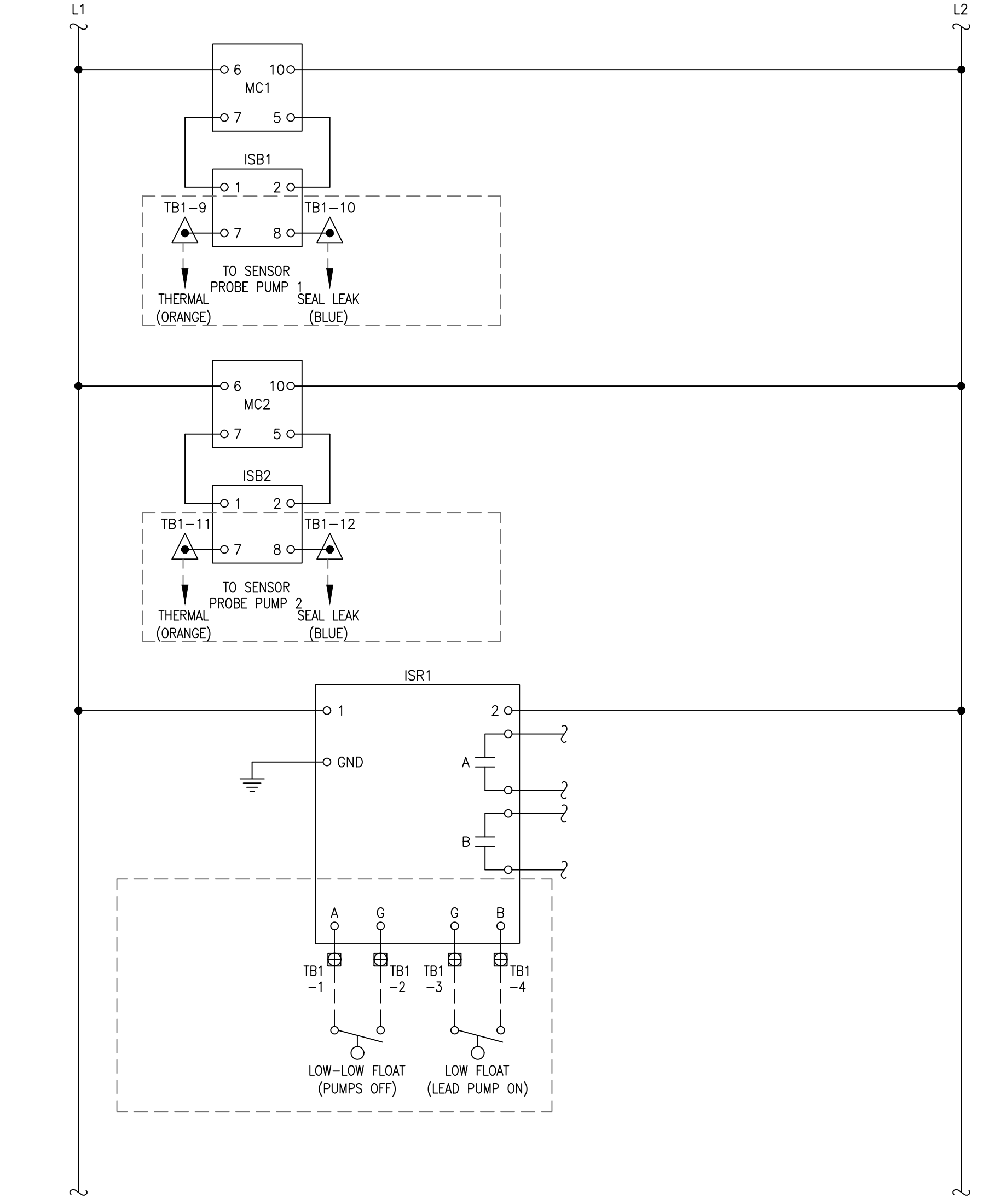
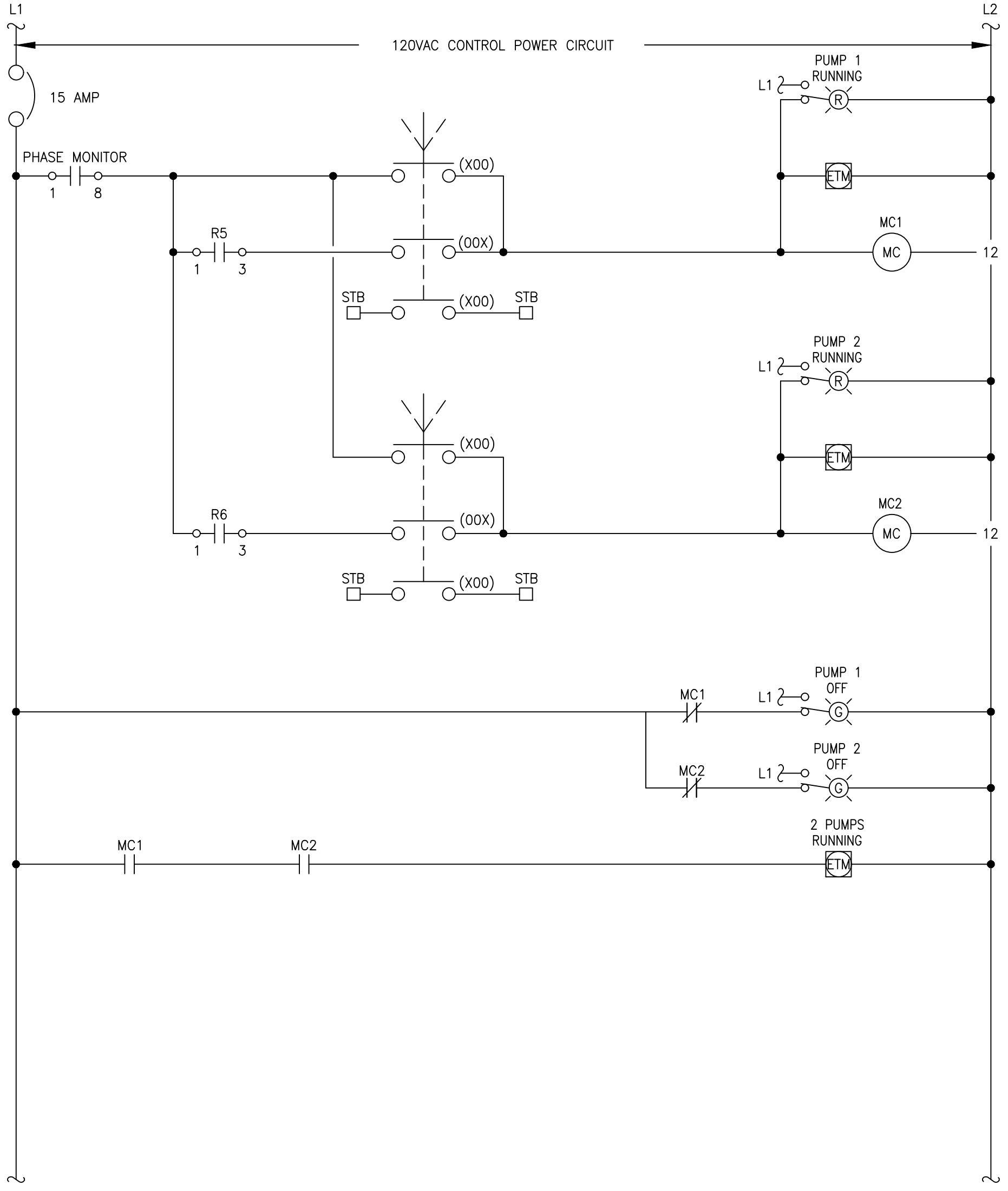
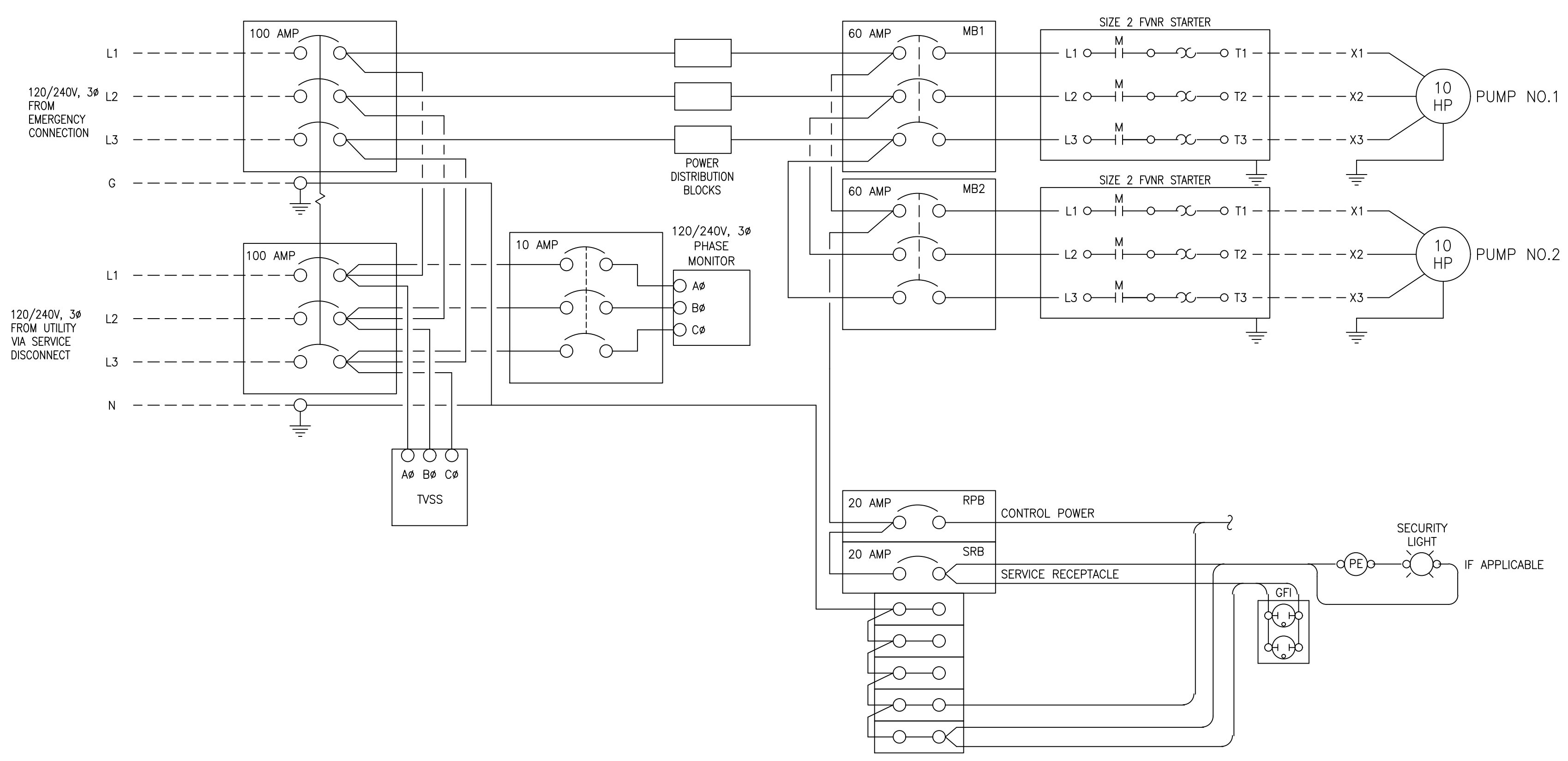
NOTES:

- 1 THE EQUIPMENT AND MATERIALS REFERENCED ON THESE DRAWINGS ARE MEANT TO ESTABLISH A MINIMUM STANDARD FOR CAPABILITY AND QUALITY ASSURANCE. SUBSTITUTIONS OF ANY EQUIPMENT AND/OR MATERIALS ARE TO BE EQUAL OR BETTER THAN THE AFOREMENTIONED EQUIPMENT AND MATERIALS AND ARE SUBJECT TO APPROVAL BY THE OWNER/ENGINEER.
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<p>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927</p> <p>440 W. MAIN ST. PANASCOLA, FL 32503 (850) 438-9861 ENGINEERING BUSINESS EB00000340</p> <p>Pensacola - Panama City Beach - Tallahassee - Mobile</p> <p><small>This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.</small></p>	
<p>CEDAR KEY SANITARY SEWER LIFT STATION RENEWAL</p>	
<p>PROJECT NO: 123503.01</p> <p>DESIGNED BY:</p> <p>DRAWN BY:</p> <p>CHK'D BY:</p> <p>PROJ. MGR: JMU</p> <p>DATE: FEBRUARY 2023</p>	<p>REVISION/ACTION TAKEN</p> <p>100% SUBMITTAL</p> <p>DATE: 1-31-24</p> <p>APPR: -</p> <p>NO. -</p> <p>NOT RELEASED FOR CONSTRUCTION BY DATE</p>
<p>LS 6 ELECTRICAL CONTROL PANEL LAYOUT</p>	
<p>E-107</p>	

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ENGINEERING THE SOUTH SINCE 1927

448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9681
ENGINEERING BUSINESS: EB-000040

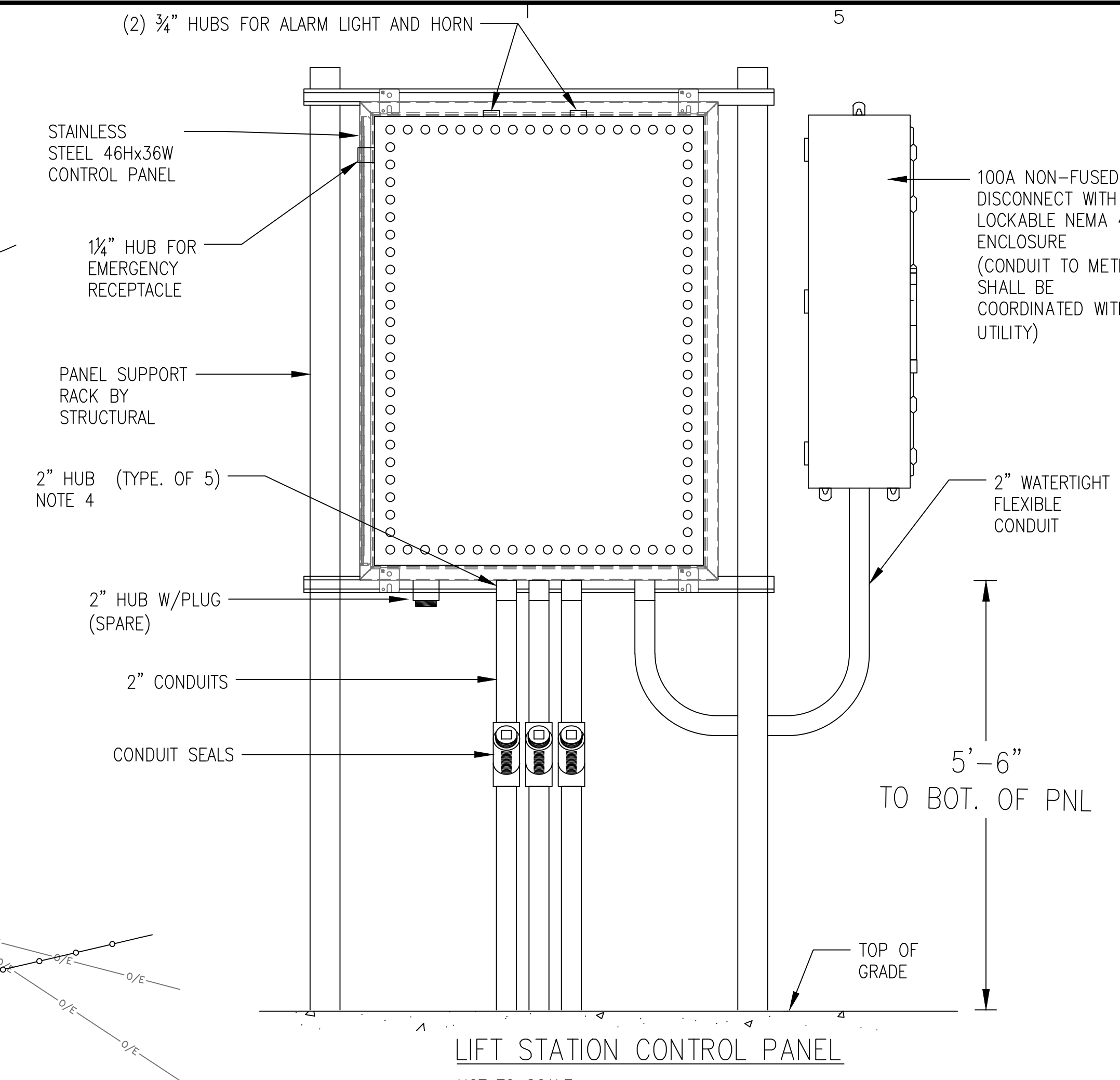
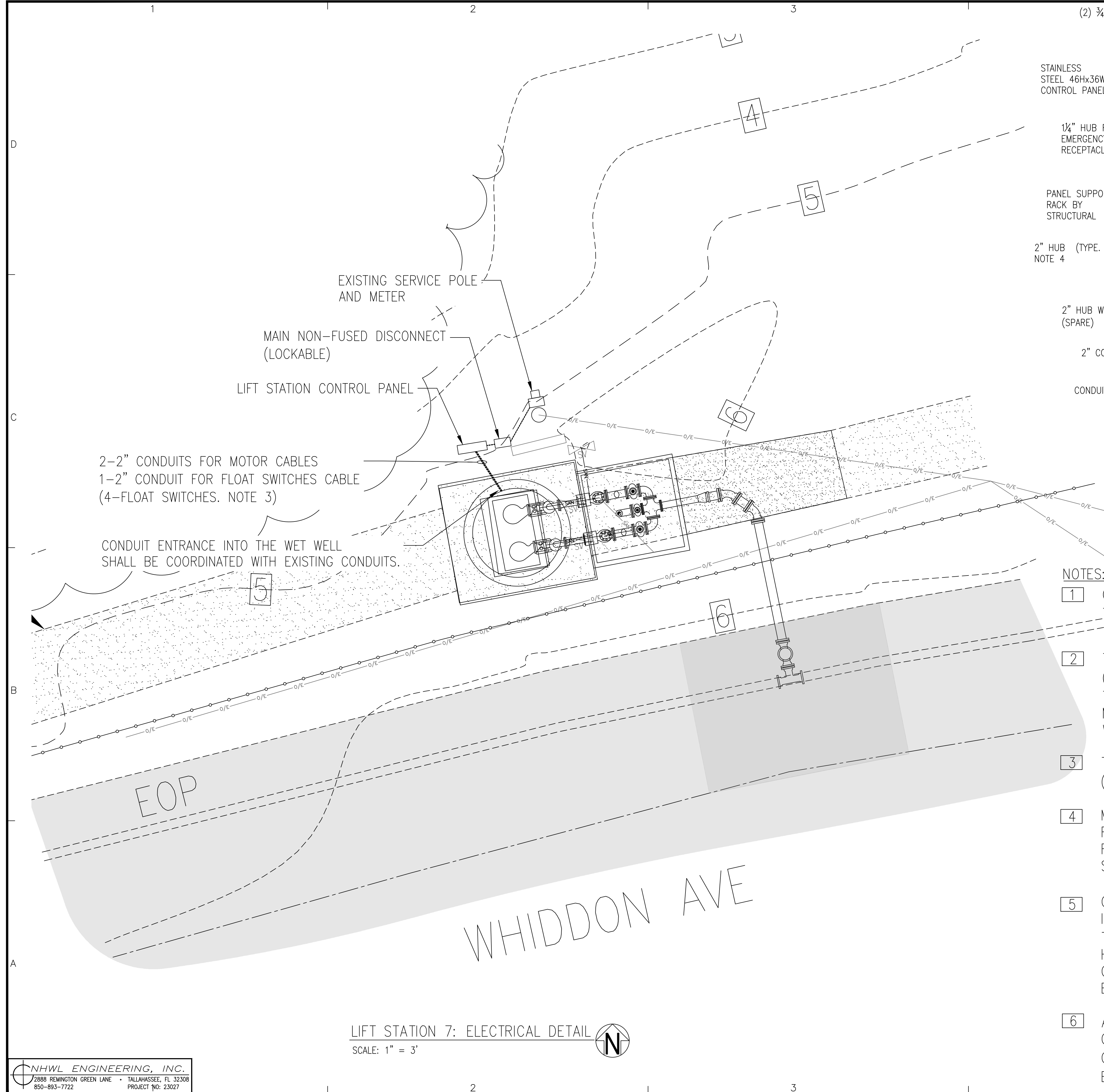
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CONAR KEY
SANITARY SEWER
LIFT STATION
REMODELATION

PROJECT NO.	DESIGNED BY:	DATE	APPR.	NO.	REVISION/ACTION TAKEN
123503.01		1-31-24		1	100% SUBMITTAL
	DRAWN BY:				
	CHK'D BY:				
	PROJ. MGR: JNU				
	DATE: FEBRUARY 2023				NOT RELEASED FOR CONSTRUCTION BY DATE

LS 6
ELECTRICAL WIRING
DIAGRAM



- NOTES:
- COORDINATE REWORKING OF SERVICE CONDUITS AND METER ENCLOSURE WITH THE SERVING UTILITY (CENTRAL FLORIDA ELECTRICAL CO-OP; CHIEFLAND, FL)
 - THE CONTROL PANEL SHALL BE INSTALLED ON THE SUPPORT STRUCTURE (SUPPLIED BY OTHERS) AT 5'-6" ABOVE GRADE TO THE BOTTOM OF THE PANEL. THE SUPPLY AND INSTALLATION OF STRUT/HARDWARE TO MOUNT THE PANEL TO THE SUPPORT IS PART OF THE ELECTRICAL WORK.
 - THE FLOAT SWITCHES SHALL BE ANCHOR SCIENTIFIC MINI-FLOATS (SUSPENDED-TYPE-S) OR EQUAL. PROVIDE CABLES OF ADEQUATE LENGTH.
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 - ALL BELOW GRADE CONDUIT SHALL BE SCH.40 PVC. ALL ABOVE GRADE CONDUIT SHALL BE RIGID IMC. ANY BELOW GRADE METALLIC CONDUIT SHALL BE COATED WITH CORROSION RESISTANT PAINT/COATINGS. BELOW GRADE CONDUIT SHALL BE AT A DEPTH OF 18" MINIMUM.

LIFT STATION 7: ELECTRICAL DETAIL
SCALE: 1" = 3'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
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ENGINEERING BUSINESS EB-0000340
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**Cedar Key
Sanitary Sewer
Lift Station
Renovation**

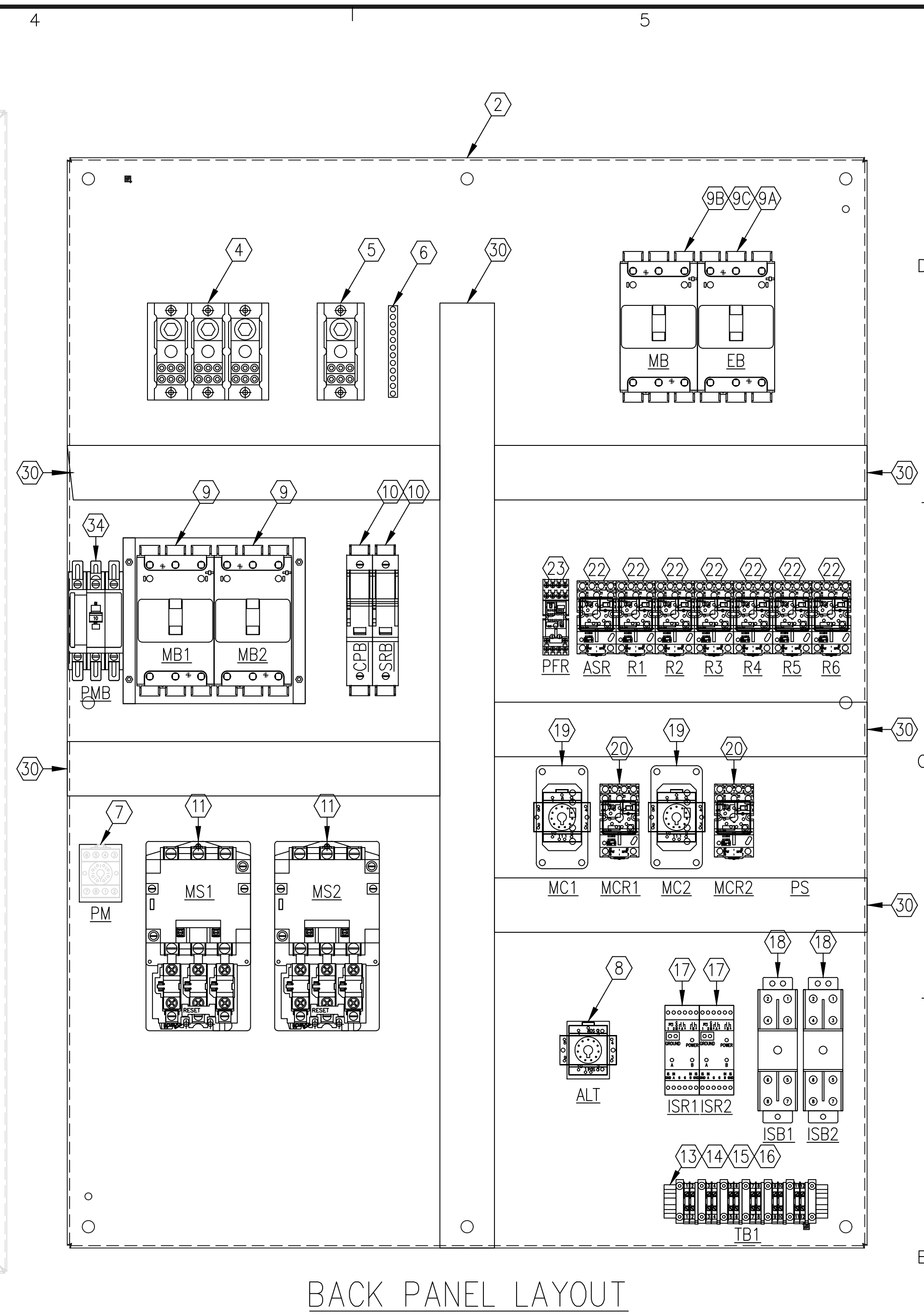
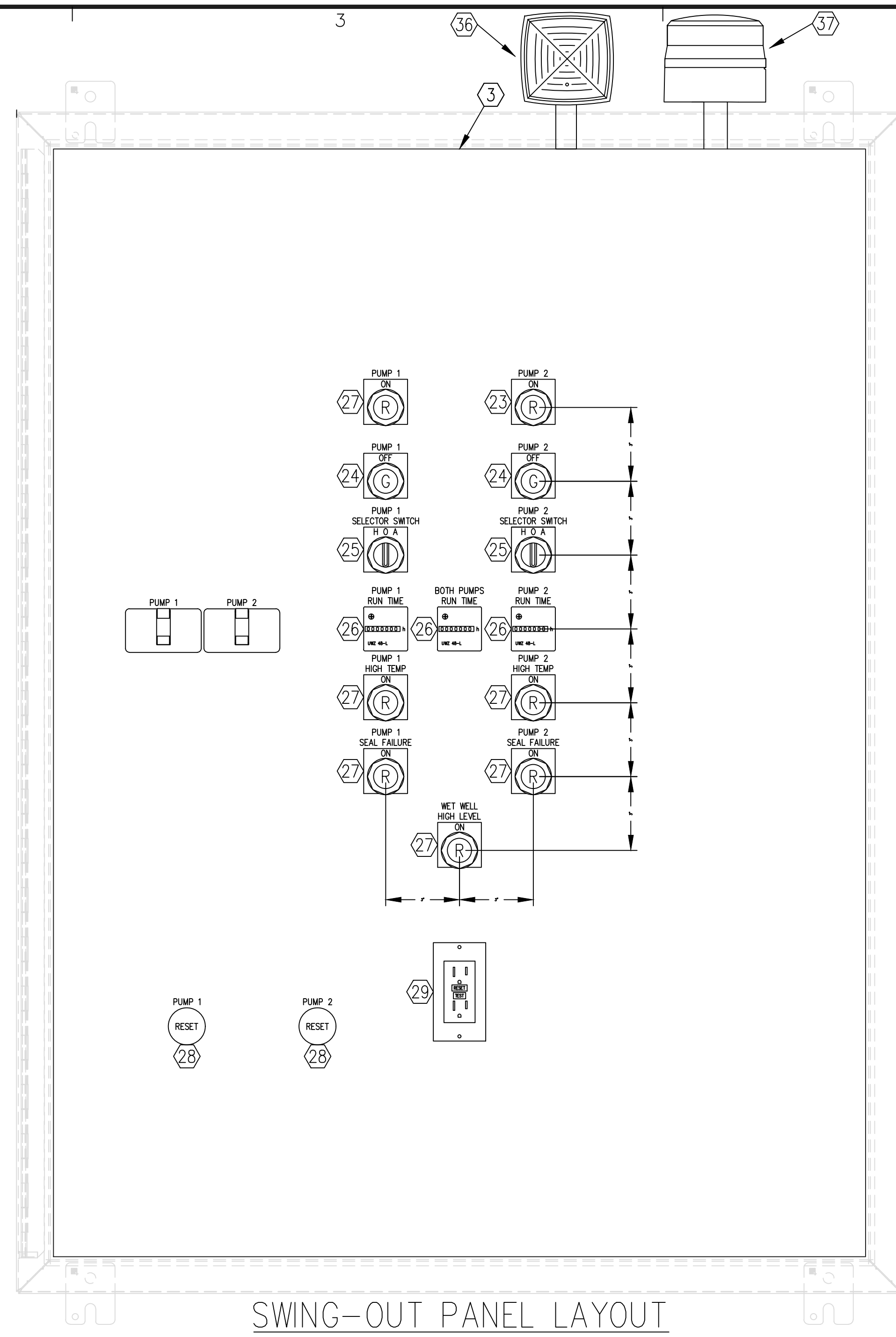
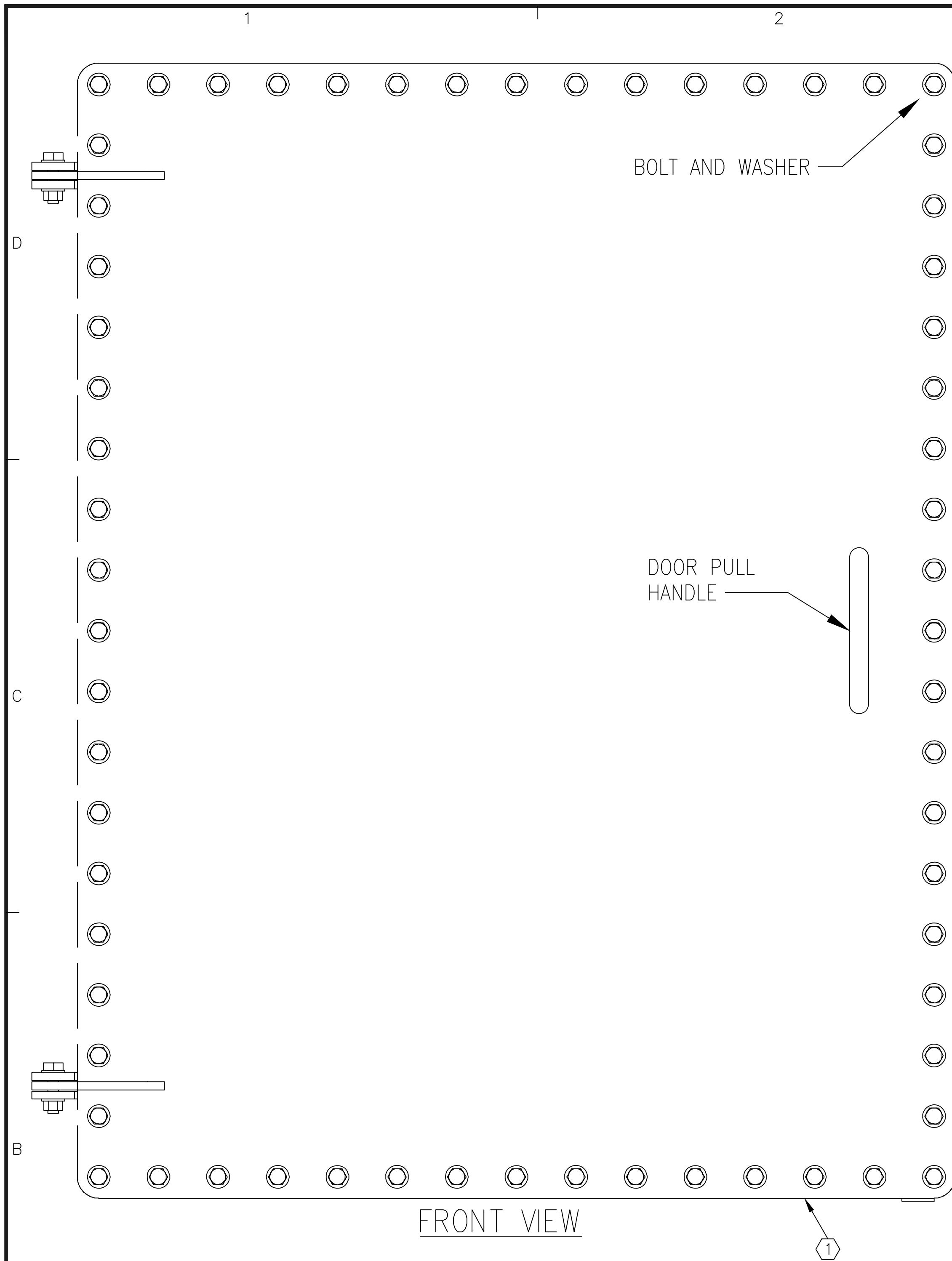
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PROJECT NO: 123503.01
DESIGNED BY:
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PROJ. MGR: JNU
DATE: FEBRUARY 2023
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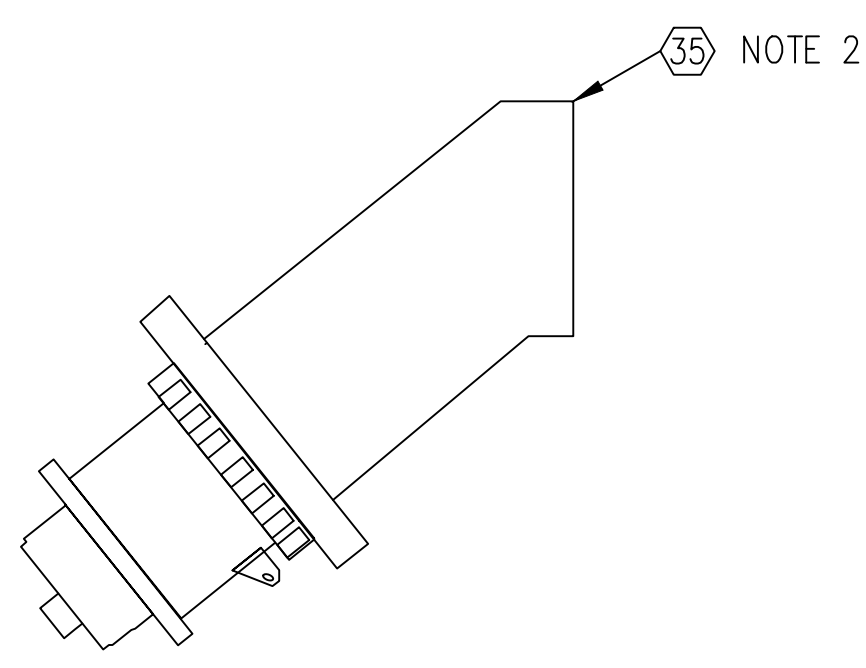
LS 7
ELECTRICAL SITE
PLAN

E-109

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- NOTES:
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ENGINEERING THE SOUTH SINCE 1927
440 W. MAIN ST. PENSACOLA, FL 32502 (850) 438-9861
ENGINEERING BUSINESS EB0000340
Pensacola - Panama City Beach - Tallahassee - Mobile

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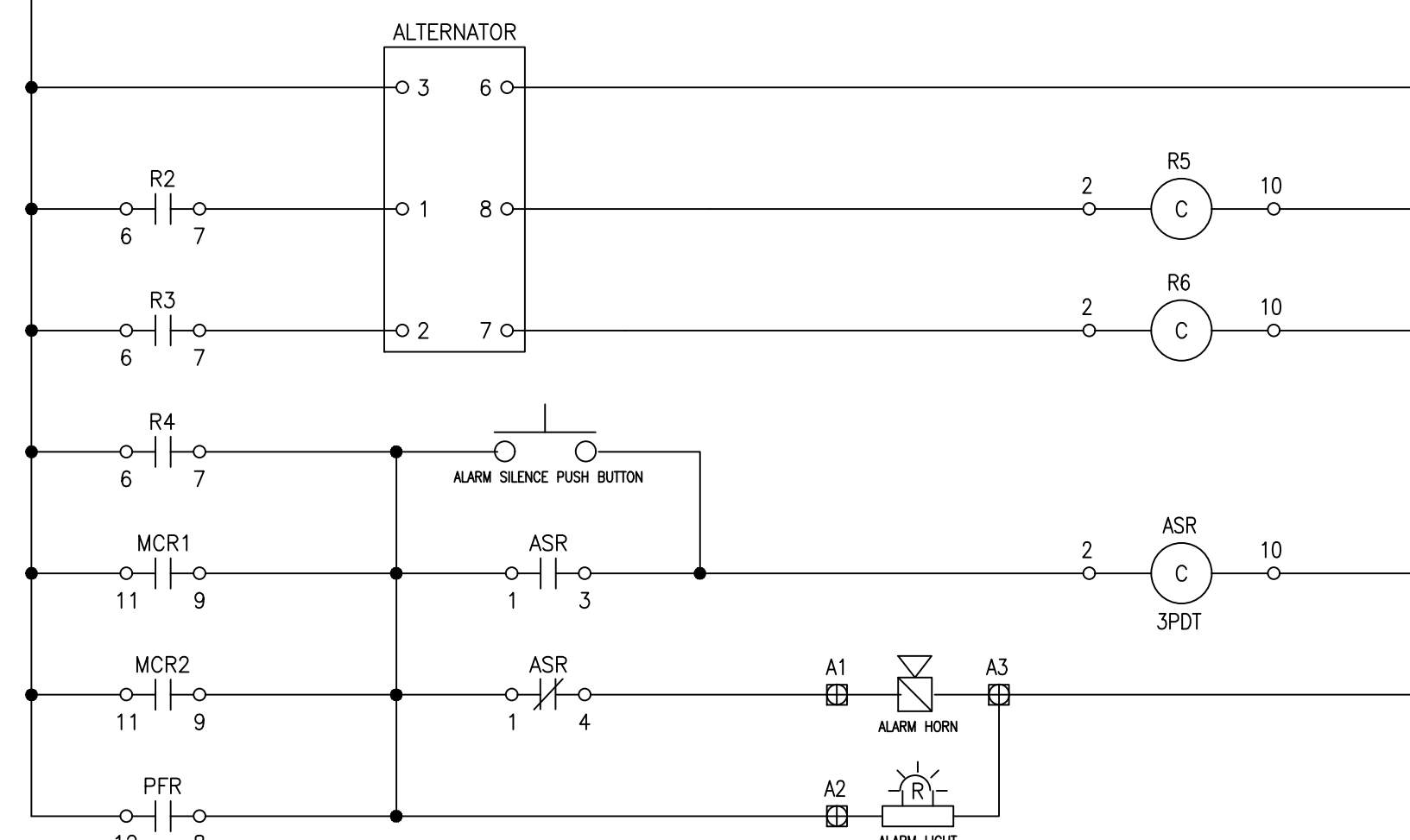
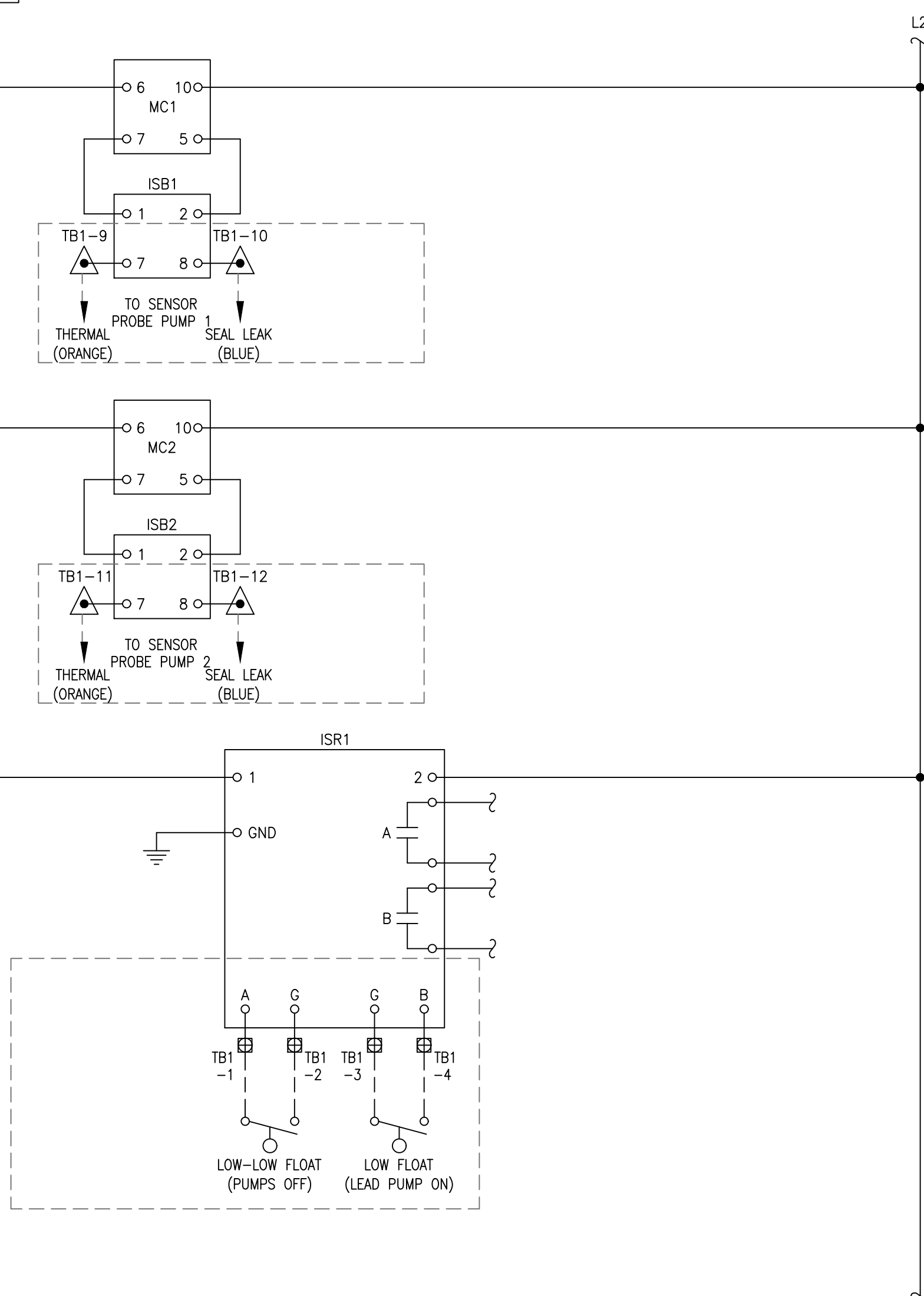
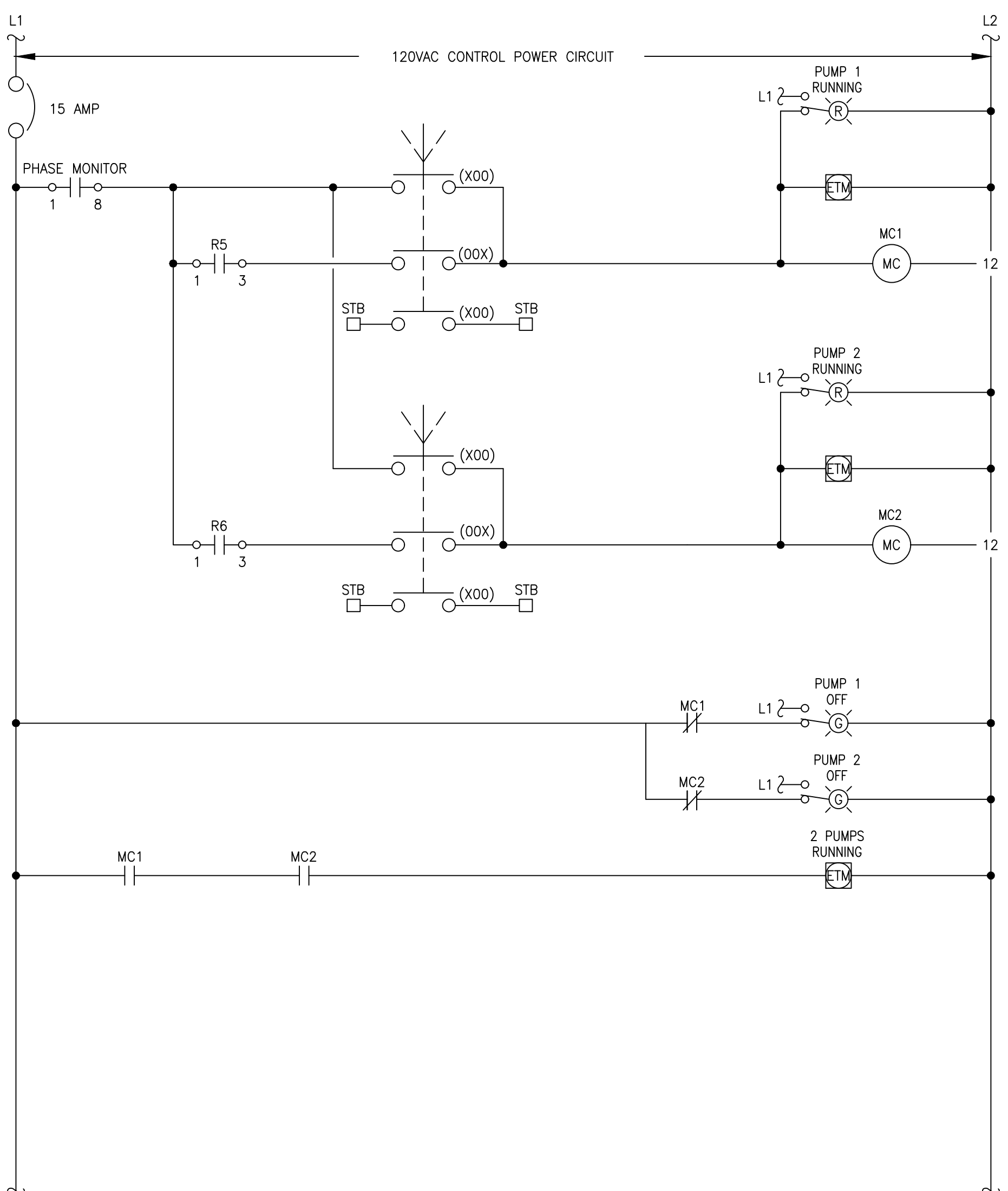
CDAR KEY
SANITARY SEWER
LIFT STATION
RENEWALTON

PROJECT NO:	DATE	APPR:	REVISION/ACTION TAKEN
123503.01	1-31-24	-	100% SUBMITTAL
DESIGNED BY:			
DRAWN BY:			
CHK'D BY:			
PROJ. MGR:	JUN		
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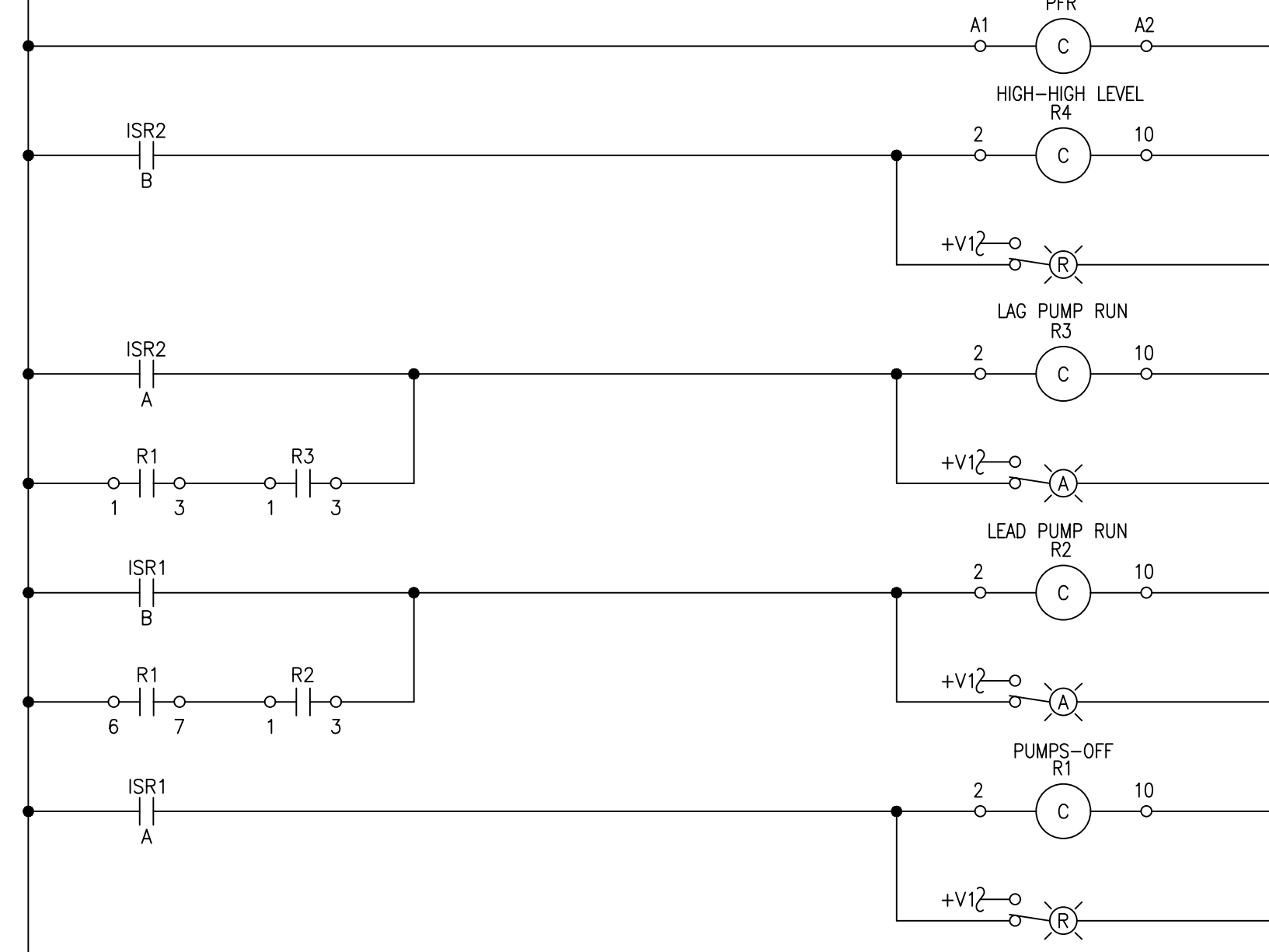
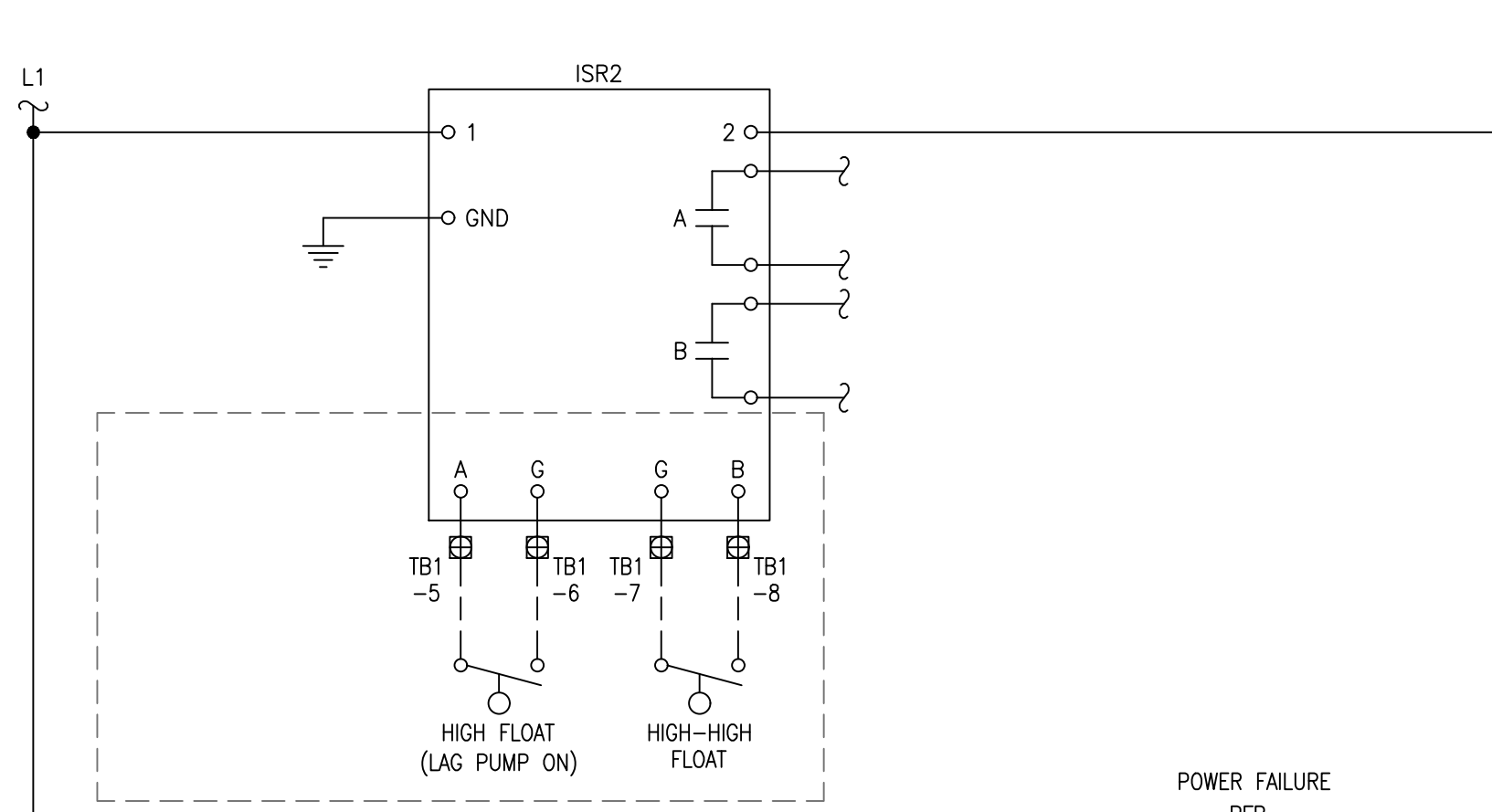
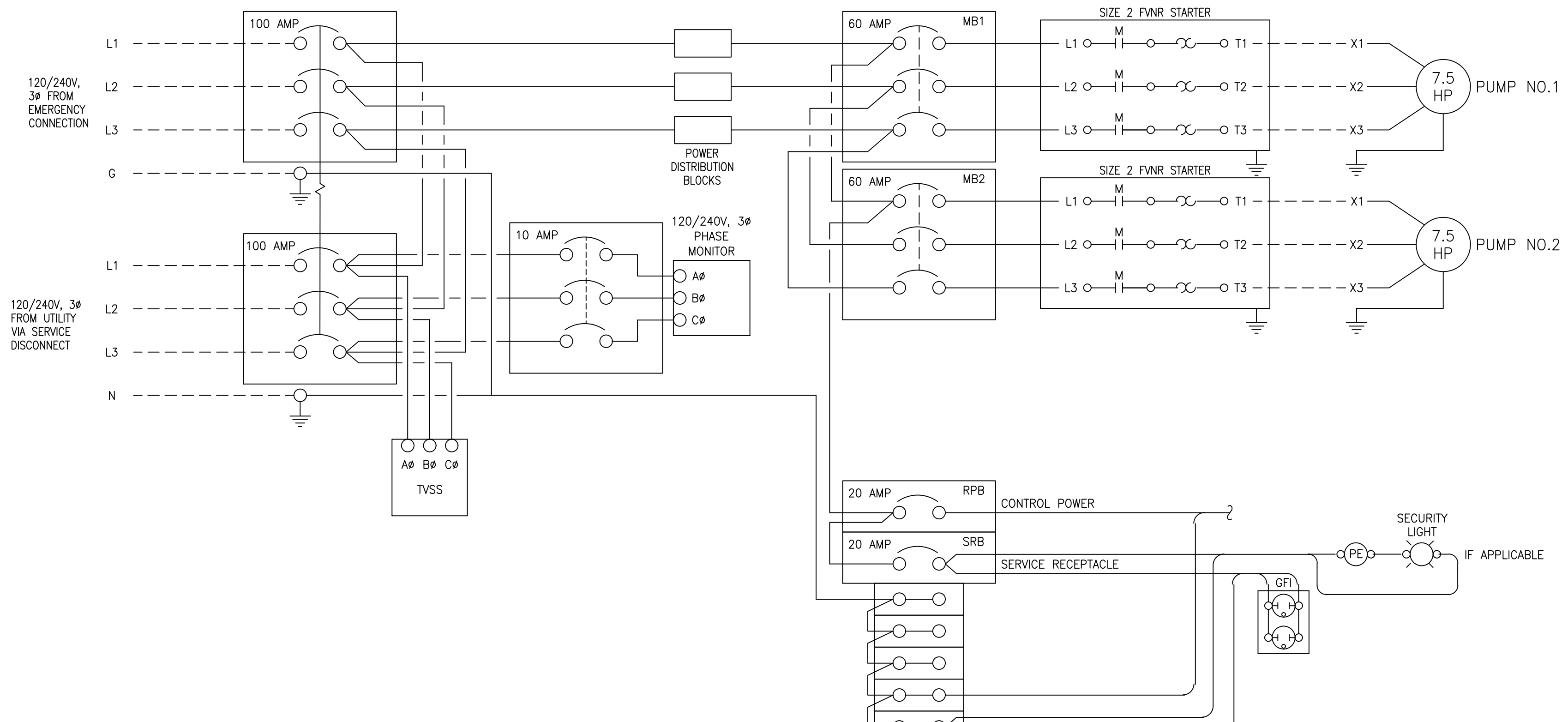
LS 7
ELECTRICAL CONTROL
PANEL LAYOUT

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- LEGEND**
- AH - ALARM HORN
 - AL - ALARM LIGHT
 - ALT - ALTERNATOR
 - ASB - ALARM SILENCE BUTTON
 - ASR - ALARM SILENCE RELAY
 - BCB - BATTERY CHARGER BREAKER
 - BHB - BLOCK HEATER BREAKER
 - CPB - CONTROL POWER BREAKER
 - ETM - ELAPSED TIME METER
 - GFI - GROUND FAULT RECEPTACLE SWITCH
 - HOA - HAND-OFF-AUTO SELECTOR
 - ISB - ISOLATION BARRIER
 - ISR - ISOLATION RELAY
 - MB - MOTOR BREAKER
 - MCB - MAIN CIRCUIT BREAKER
 - MCR - MINI-CAS MODULE
 - MC - MOTOR CONTROL RELAY
 - MS - MOTOR STARTER
 - OC - OVERLOAD
 - PFR - POWER FAIL RELAY
 - PM - PHASE MONITOR
 - PMB - PHASE MONITOR BREAKER
 - PS - POWER SUPPLY
 - R - RELAY
 - RTU - RTU POWER BREAKER
 - SRB - SERVICE RECEPTACLE BREAKER
 - TB - TERMINAL BLOCK
 - TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR



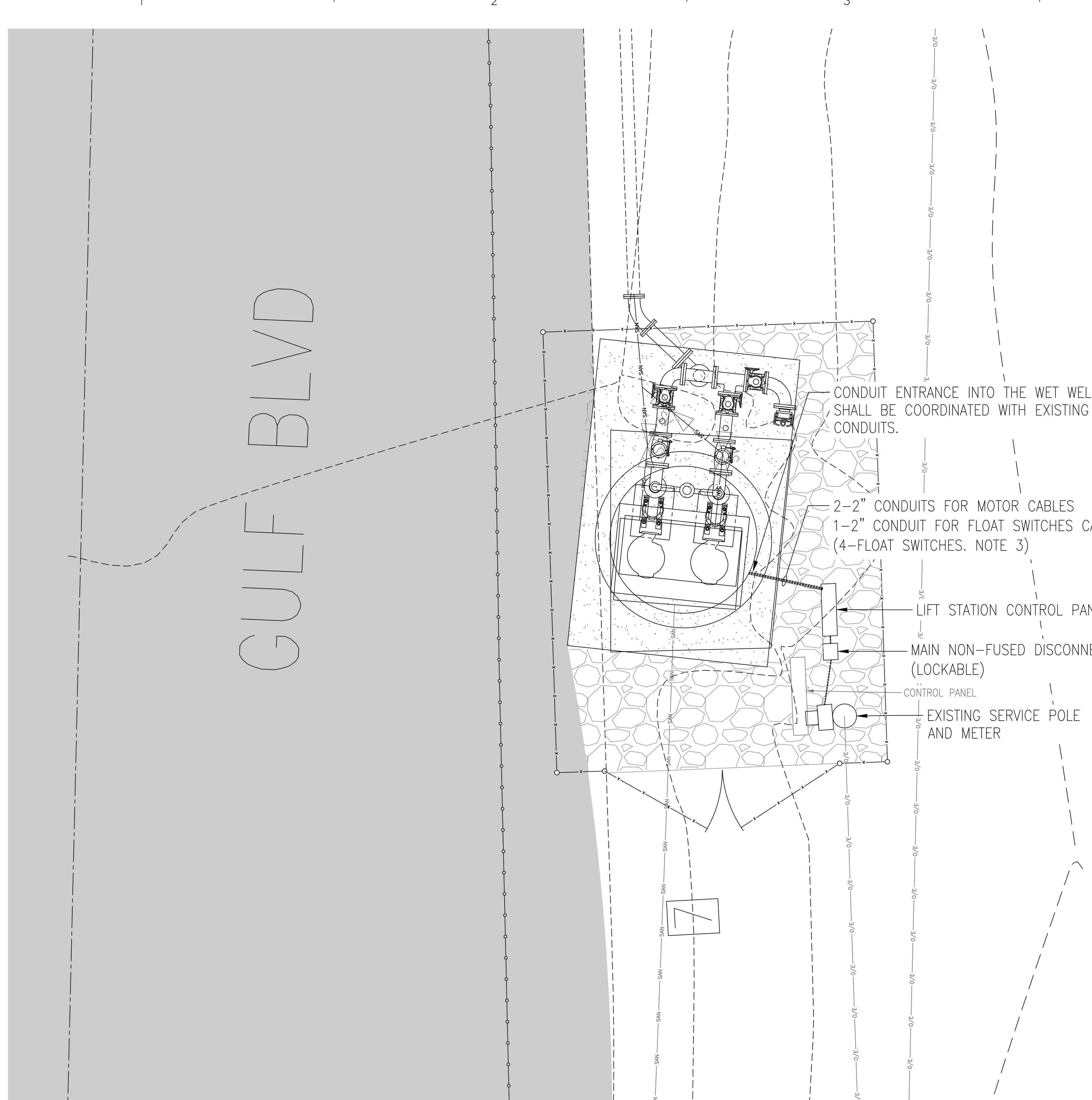
BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9661
 PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE
 ENGINEERING BUSINESS: EB-000040
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CONAR KEY
SANITARY SEWER
LIFT STATION
REMODELATION

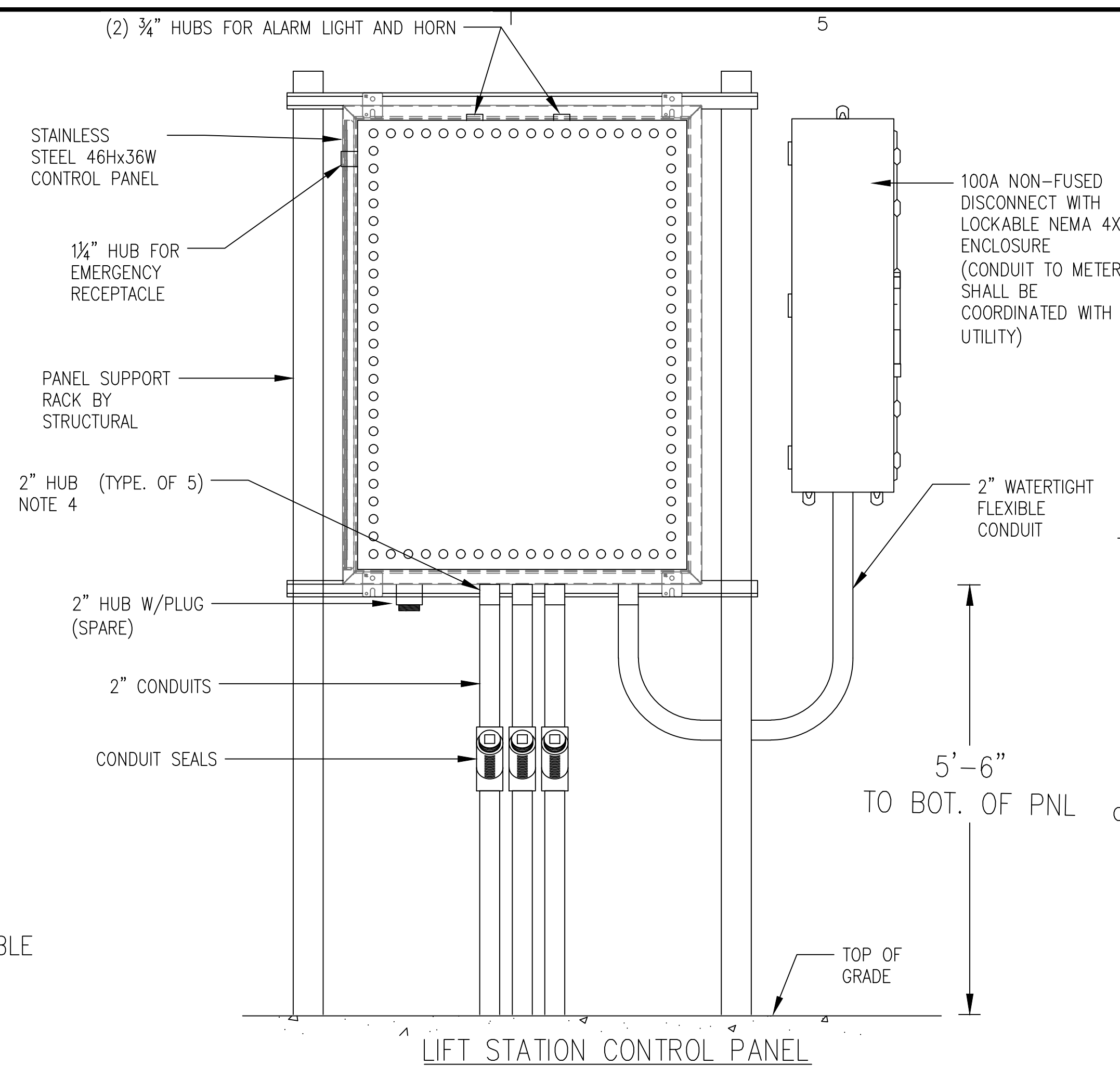
PROJECT NO.	DESIGNED BY:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	DRANN BY:	1	1-31-24	-	100% SUBMITTAL
	CHK'D BY:				
	PROJ. MGR: JNU				
	DATE: FEBRUARY 2023				

LS 7
 ELECTRICAL WIRING
 DIAGRAM

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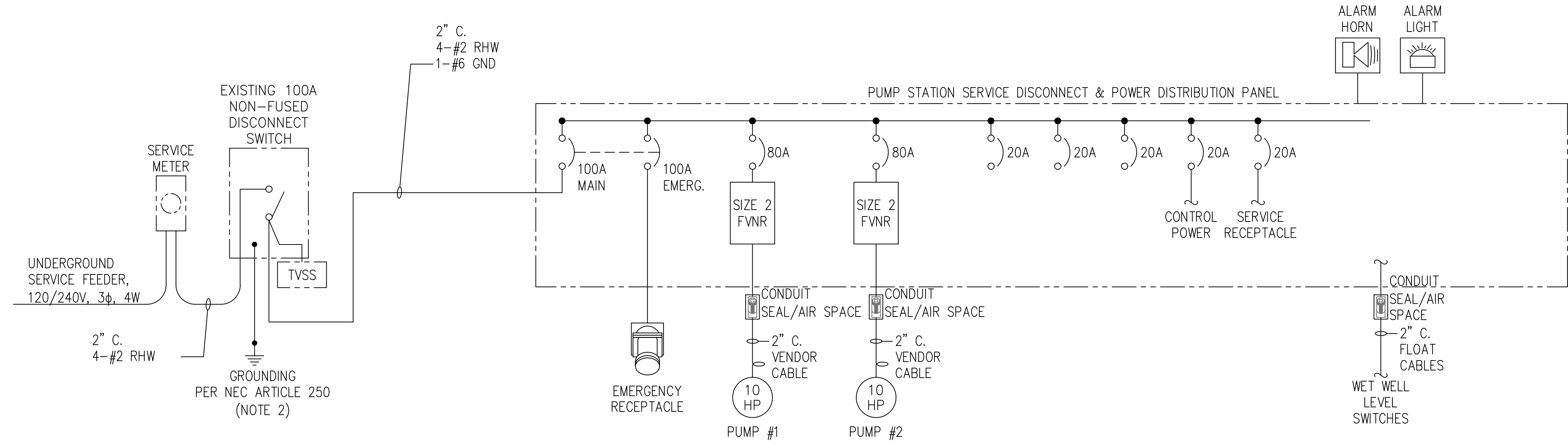
LIFT STATION 9: ELECTRICAL DETAIL
SCALE: 1" = 2'



- NOTES:
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	DRAWN BY:				
	CHK'D BY:				
	PROJ. MGR:				
	DATE:				

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LIFT STATION #9 RISER DIAGRAM

- NOTE:
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9B	MAIN BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9C	H/J FRAME MECHANICAL INTERLOCK FOR TOGGLE HANDLE	SQUARE-D	S29354	2
10	BREAKER-20A, SINGLE POLE	SQUARE-D	BDL16020	5
11	FULL VOLTAGE NON-REVERSING SIZE 2 STARTER	SQUARE-D	85365D01V02H305	2
12	SURGE PROTECTIVE DEVICE	SURGE SUPPRESSION, INC	LS2D-3Y1-D1XS	1
13	35mm DIN RAIL	SQUARE-D	9080MH320	AS REQ'D
14	FEED THROUGH TERMINAL	SQUARE-D	9080GM6	AS REQ'D
15	END BARRIER	SQUARE-D	9080GM6B	AS REQ'D
16	END CLAMP	SQUARE-D	9080MHA10	AS REQ'D
17	INTRINSICALLY SAFE RELAY	R-K ELECTRONICS	ISR-24V-10K	2
18	GEMS ZENER BARRIER	TEQUIPMENT	54801	2
19	PUMP MONITORING/CONTROL RELAY w/ BASE	PUMP VENDOR		2
20	RELAY, OCTAL PLUG-IN, 3PDT 120VAC w/RELAY SOCKET	EATON	D3RF3A D3PA7	2
21	(NOT USED)	-	-	-
22	RELAY, OCTAL PLUG-IN, 3PDT 24VDC w/RELAY SOCKET	SQUARE-D	D3RF3T1 D3PA7	7
23	MINIATURE PLUG-IN RELAY - 24VDC	SQUARE-D	RXM4AB2BDPVM	1
24	PILOT LIGHT - w/GREEN LENSE	ALLEN-BRADLEY	800T-QTH2G	2
25	3 POSITION SELECTOR SWITCH w/"H-0-A" LEGEND PLATE	ALLEN-BRADLEY	800T-J2B 800T-X511	2
26	HOUR COUNTER PANEL METER	GRASSLIN	UWZ48E-12050U	3
27	PILOT LIGHT - w/RED LENSE	ALLEN-BRADLEY	800T-QTH2R	7
28	EXTERNAL RESET MECHANISM	SQUARE-D	9066RA1	1
29	DUPLEX SERVICE RECEPTACLE 20A, 125VAC, G.F.I. w/COVER	LEVITON	GFWT2-T	1
30	WIREWAY DUCT 2"x4" w/COVER	HOFFMAN	A200400WH A200CWH	AS REQ'D
31	LED ALARM BEACON - 12-24VDC, NEMA 4X	EDWARDS SIGNALING	94PLEDMR24AD	1
32	ALARM HORN - WEATHERPROOF, 24VDC, NEMA 4X	EDWARDS SIGNALING	877-G1	1
33	PUSH BUTTON - MOMENTARY CONTACT, BLACK, 1 NO	ALLEN-BRADLEY	800T-B2D1	1
34	BREAKER-10A, THREE-POLE	SQUARE-D	QOU310	1
35	EMERGENCY RECEPTACLE - 100A, 3φ 4 WIRE, NEMA 6P/IP67 W/BACK BOX	LEVITON	4100R9W BX100-V	1
36	VIBRATING HORN 120VAL NEMA 4X	EDWARDS	876-N5	1
37	FLASHING ALARM LIGHT - RED LED MICROLERT NEMA 6P CAPABLE	TOMAR ELECTRONICS	290LF-120-240	1

BOM NOTES:
 1 VIBRATING HORN HAS A NEMA 4X ENCLOSURE. THEREFORE CONDUIT INTO THE NEMA 6P PANEL SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT.

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 ENGINEERING THE SOUTH SINCE 1927
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 ENGINEERING BUSINESS EB-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile
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CONAR KEY
SANITARY SEWER
LIFT STATION
RENEWAL

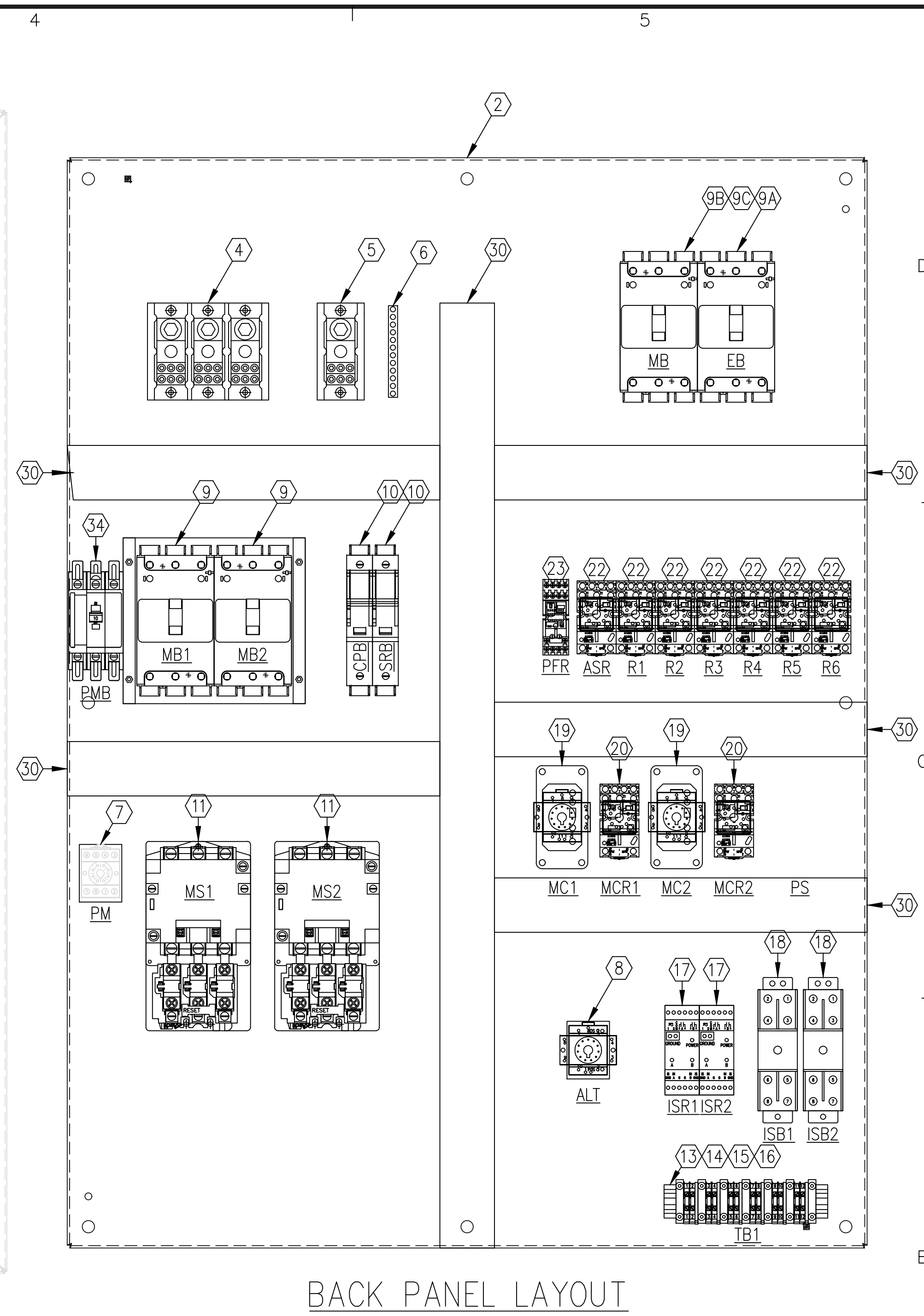
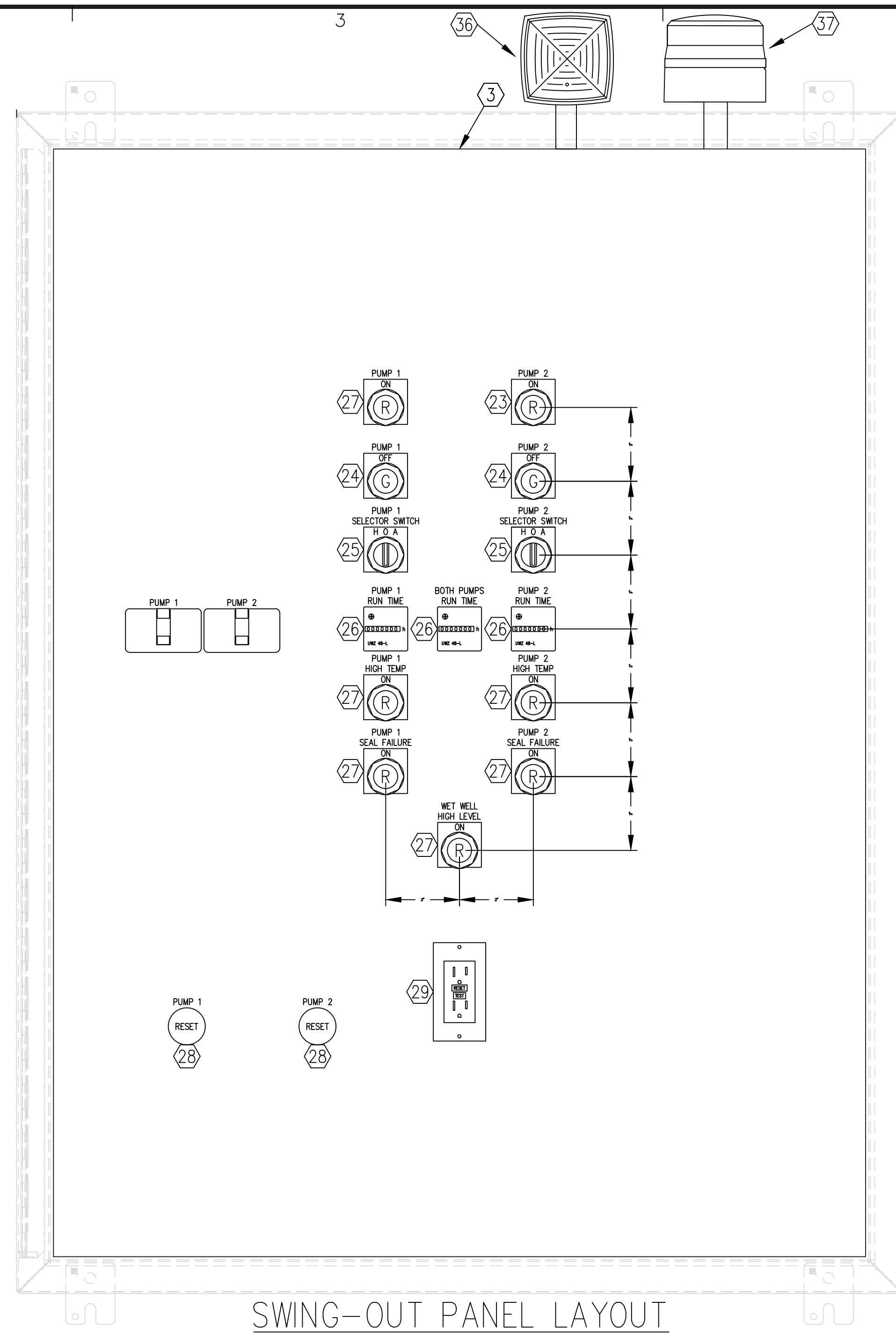
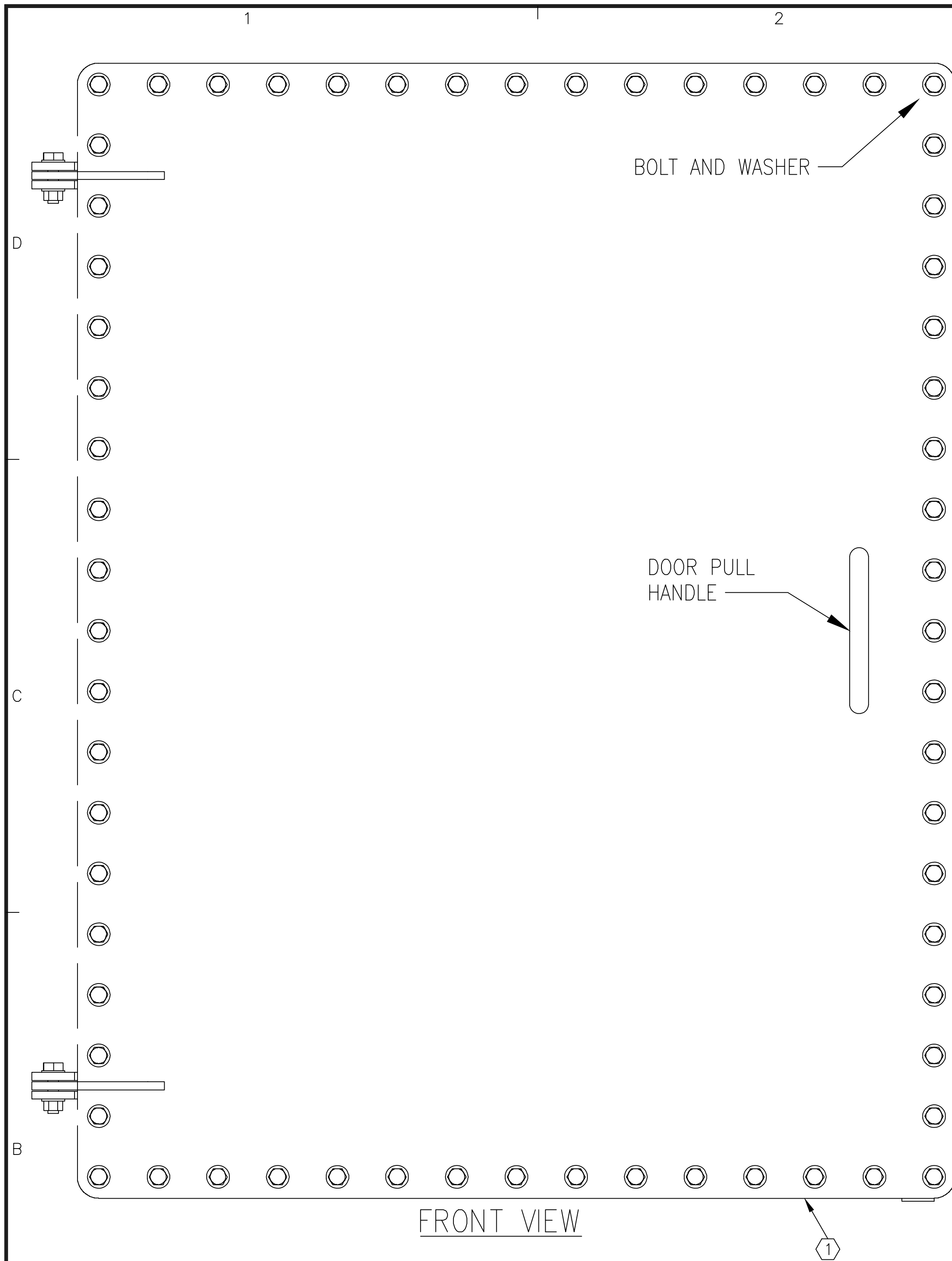
PROJECT NO.	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:
123503.01				JNU	FEBRUARY 2023

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	1-31-24		100% SUBMITTAL

NO.	DATE	APPR.	REVISION/ACTION TAKEN
			NOT RELEASED FOR CONSTRUCTION BY

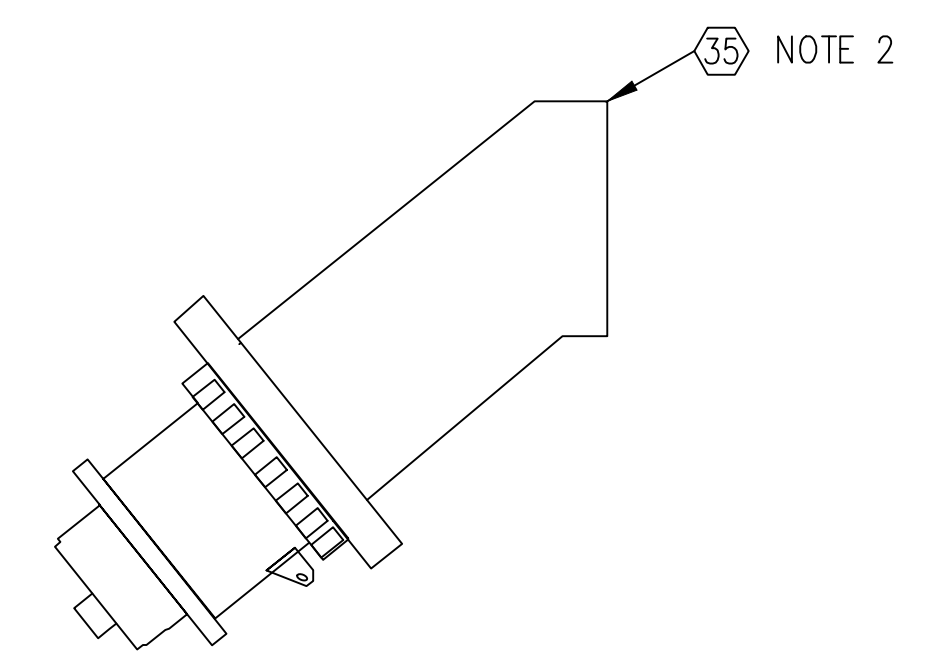
LS 9
 ELECTRICAL
 RISER/1-LINE DIAGRAM

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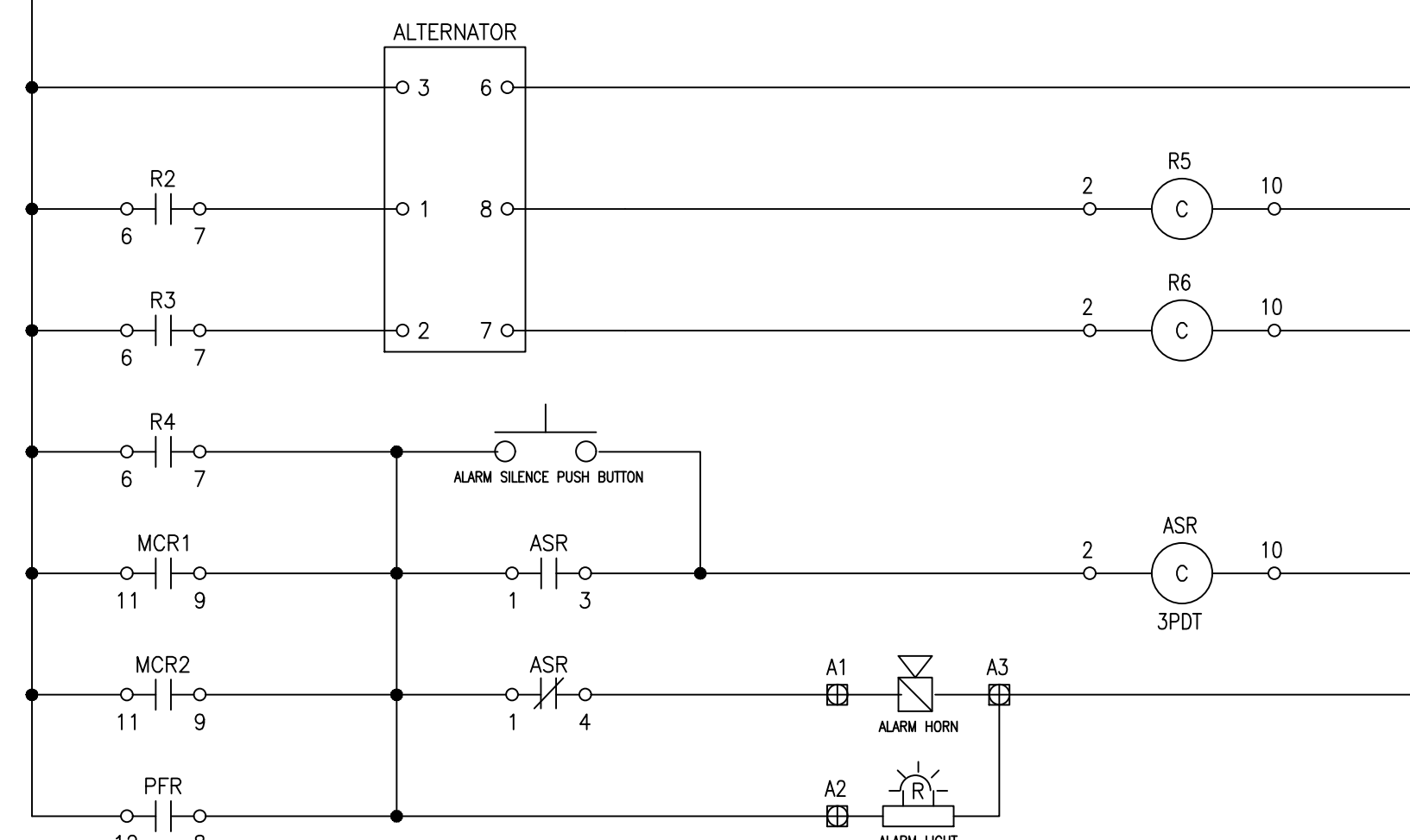
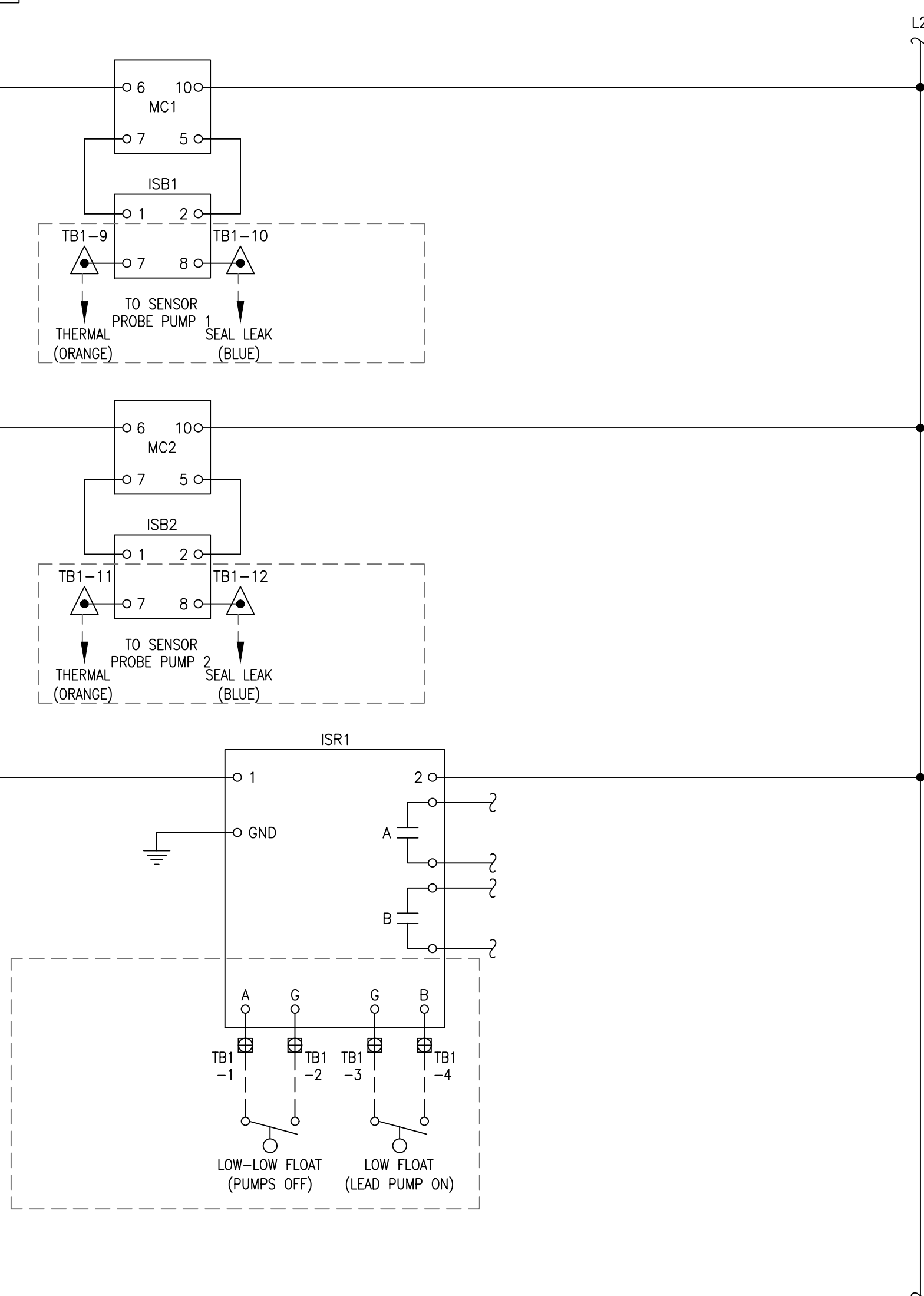
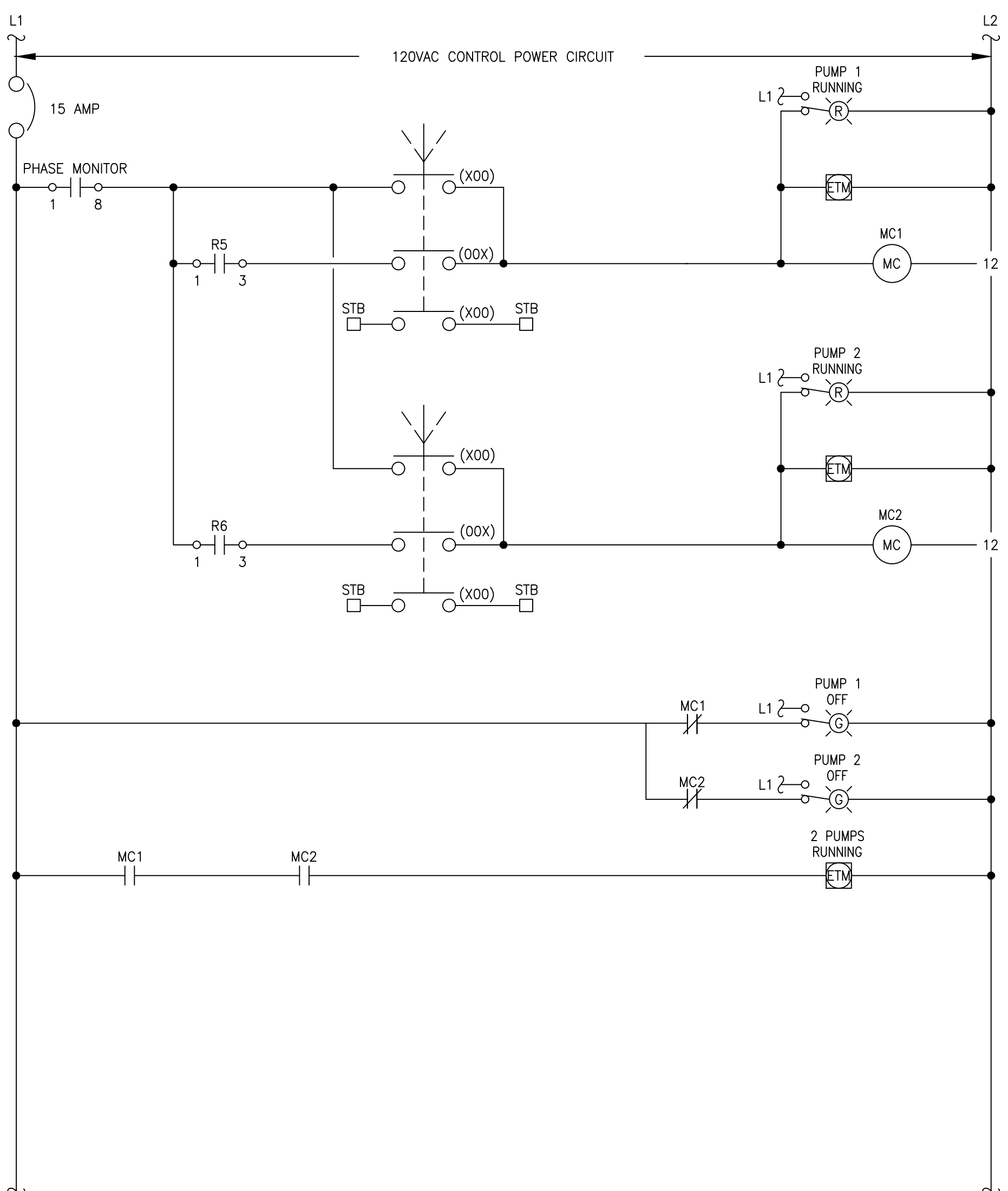
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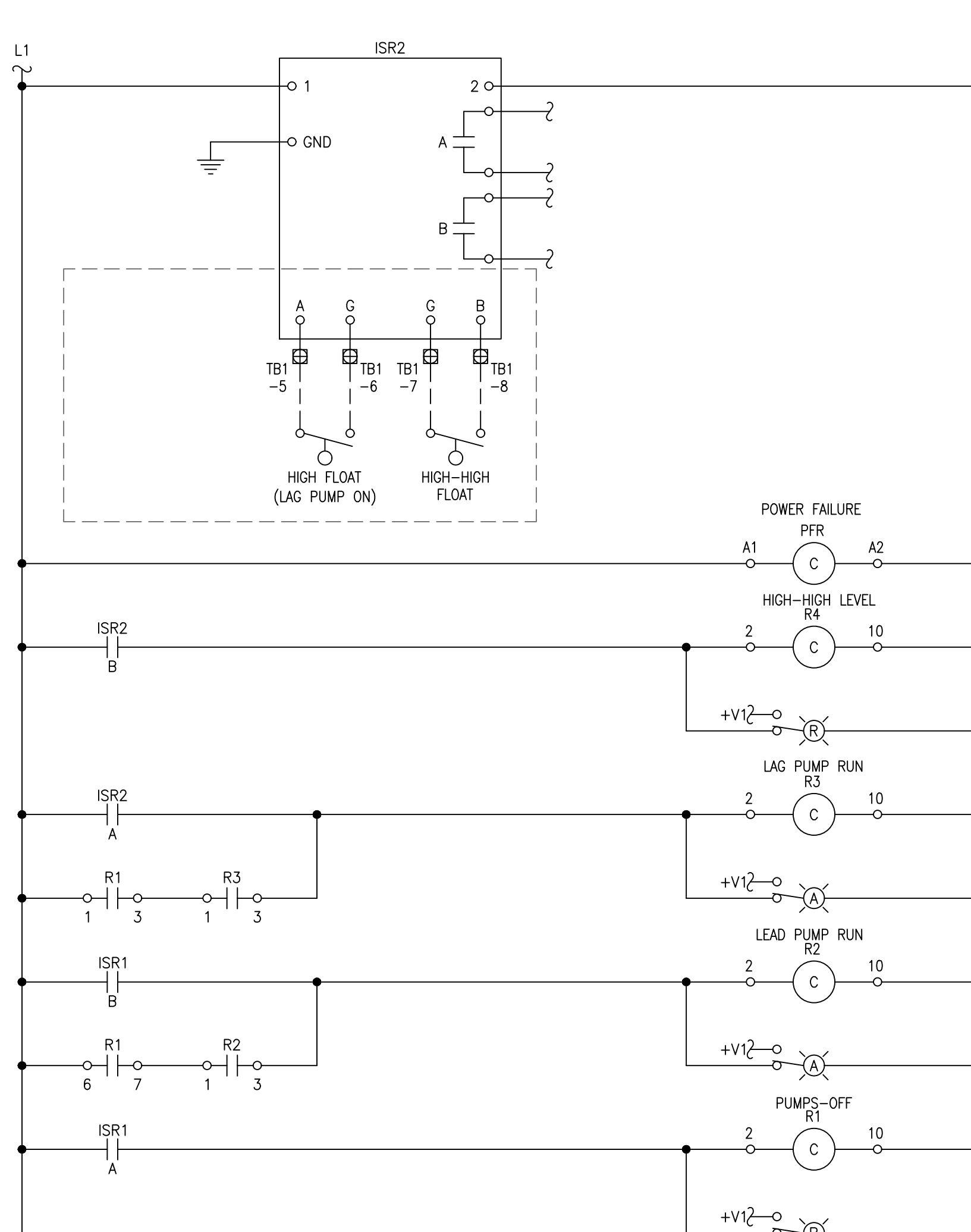
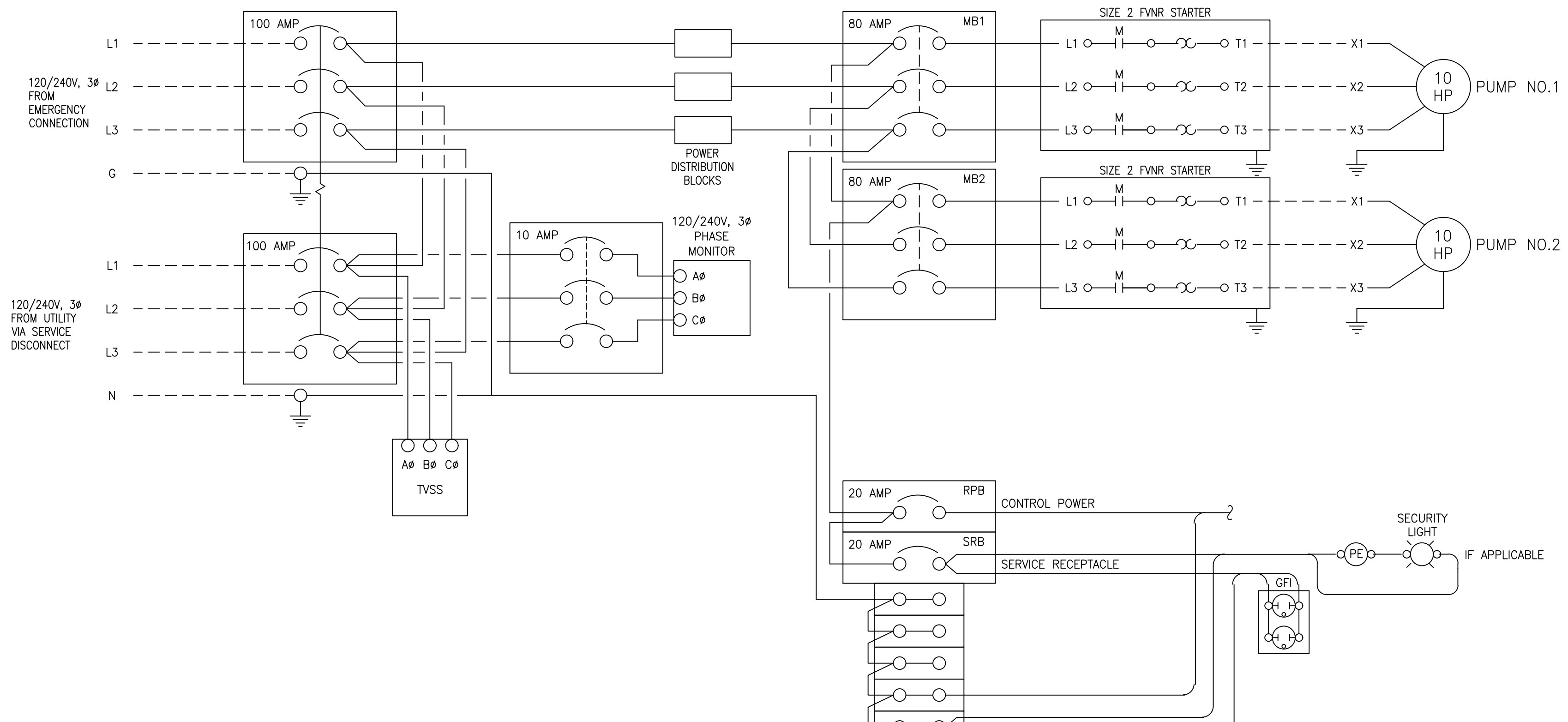


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<p>CEDAR KEY SANITARY SEWER LIFT STATION REHABILITATION</p>	
<p>PROJECT NO: 123503.01</p> <p>DESIGNED BY:</p> <p>DRAWN BY:</p> <p>CHK'D BY:</p> <p>PROJ. MGR: JMU</p> <p>DATE: FEBRUARY 2023</p>	<p>REVISION/ACTION TAKEN</p> <p>100% SUBMITTAL</p> <p>DATE: 1-31-24</p> <p>APPR: -</p> <p>NO. -</p> <p>NOT RELEASED FOR CONSTRUCTION BY DATE</p>
<p>LS 9 ELECTRICAL CONTROL PANEL LAYOUT</p>	
<p>E-115</p>	

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- LEGEND**
- AH - ALARM HORN
 - AL - ALARM LIGHT
 - ALT - ALTERNATOR
 - ASB - ALARM SILENCE BUTTON
 - ASR - ALARM SILENCE RELAY
 - BCB - BATTERY CHARGER BREAKER
 - BHB - BLOCK HEATER BREAKER
 - CPB - CONTROL POWER BREAKER
 - ETM - ELAPSED TIME METER
 - GFI - GROUND FAULT RECEPTACLE SWITCH
 - HOA - HAND-OFF-AUTO SELECTOR
 - ISB - ISOLATION BARRIER
 - ISR - ISOLATION RELAY
 - MB - MOTOR BREAKER
 - MCB - MAIN CIRCUIT BREAKER
 - MC - MINI-CAS MODULE
 - MCR - MOTOR CONTROL RELAY
 - MS - MOTOR STARTER
 - OL - OVERLOAD
 - PFR - POWER FAIL RELAY
 - PM - PHASE MONITOR
 - PMB - PHASE MONITOR BREAKER
 - PS - POWER SUPPLY
 - R - RELAY
 - RTU - RTU POWER BREAKER
 - SRB - SERVICE RECEPTACLE BREAKER
 - TB - TERMINAL BLOCK
 - TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR



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ENGINEERING BUSINESS: EB-0000340

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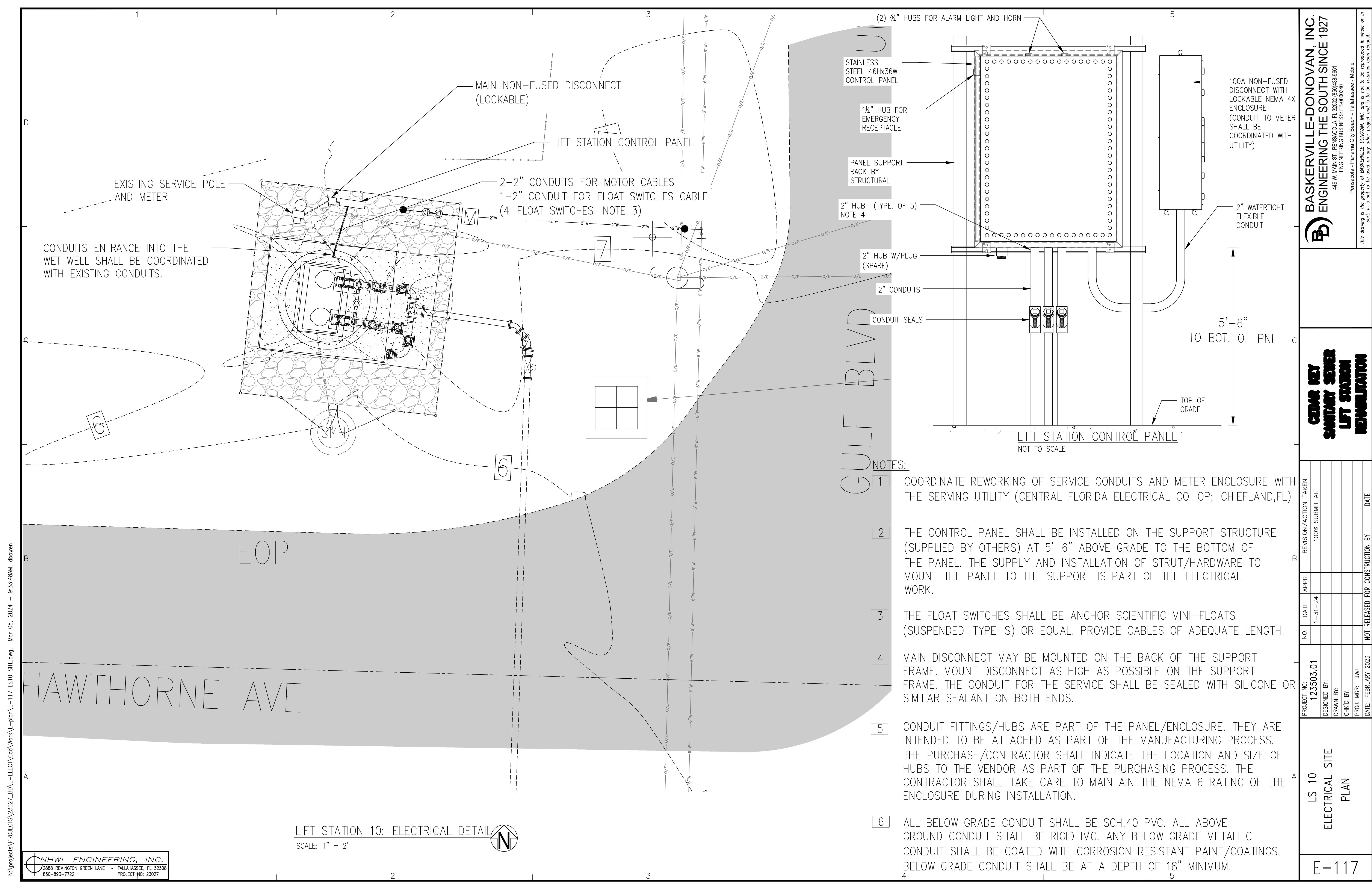
CONTRACT KEY
SANITARY SEWER
LIFT STATION
RENEWAL

PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:
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LS 9
ELECTRICAL WIRING
DIAGRAM

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LIFT STATION 10: ELECTRICAL DETAIL
SCALE: 1" = 2'

NOTES:

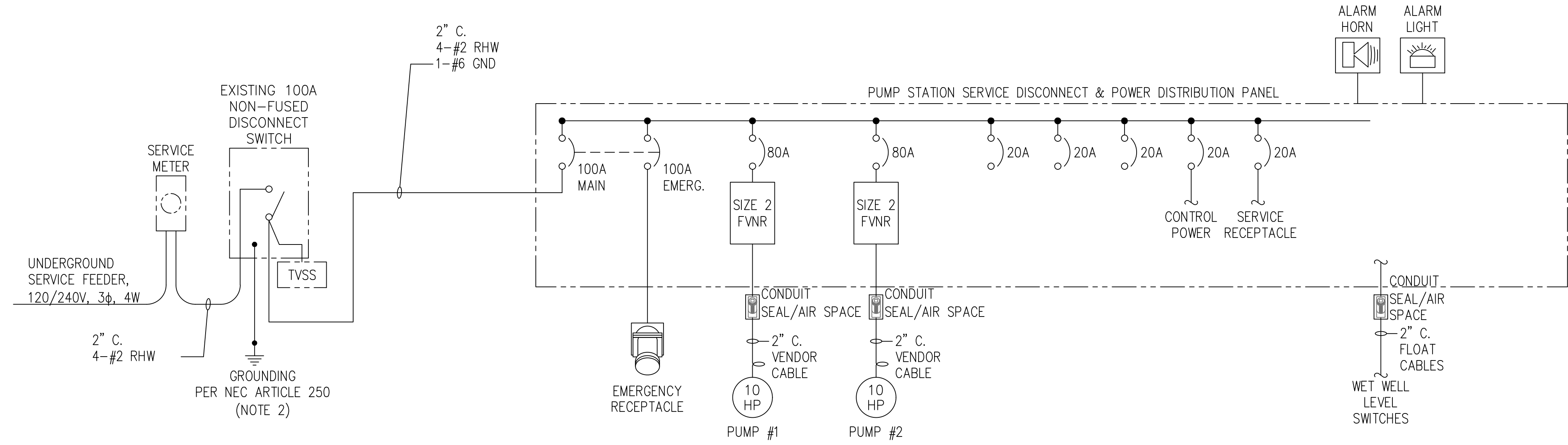
- 1 COORDINATE REWORKING OF SERVICE CONDUITS AND METER ENCLOSURE WITH THE SERVING UTILITY (CENTRAL FLORIDA ELECTRICAL CO-OP; CHIEFLAND, FL)
- 2 THE CONTROL PANEL SHALL BE INSTALLED ON THE SUPPORT STRUCTURE (SUPPLIED BY OTHERS) AT 5'-6" ABOVE GRADE TO THE BOTTOM OF THE PANEL. THE SUPPLY AND INSTALLATION OF STRUT/HARDWARE TO MOUNT THE PANEL TO THE SUPPORT IS PART OF THE ELECTRICAL WORK.
- 3 THE FLOAT SWITCHES SHALL BE ANCHOR SCIENTIFIC MINI-FLOATS (SUSPENDED-TYPE-S) OR EQUAL. PROVIDE CABLES OF ADEQUATE LENGTH.
- 4 MAIN DISCONNECT MAY BE MOUNTED ON THE BACK OF THE SUPPORT FRAME. MOUNT DISCONNECT AS HIGH AS POSSIBLE ON THE SUPPORT FRAME. THE CONDUIT FOR THE SERVICE SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT ON BOTH ENDS.
- 5 CONDUIT FITTINGS/HUBS ARE PART OF THE PANEL/ENCLOSURE. THEY ARE INTENDED TO BE ATTACHED AS PART OF THE MANUFACTURING PROCESS. THE PURCHASE/CONTRACTOR SHALL INDICATE THE LOCATION AND SIZE OF HUBS TO THE VENDOR AS PART OF THE PURCHASING PROCESS. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE NEMA 6 RATING OF THE ENCLOSURE DURING INSTALLATION.
- 6 ALL BELOW GRADE CONDUIT SHALL BE SCH.40 PVC. ALL ABOVE GROUND CONDUIT SHALL BE RIGID IMC. ANY BELOW GRADE METALLIC CONDUIT SHALL BE COATED WITH CORROSION RESISTANT PAINT/COATINGS. BELOW GRADE CONDUIT SHALL BE AT A DEPTH OF 18" MINIMUM.

**Cedar Key
SANITARY SEWER
LIFT STATION
RECONSTRUCTION**

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123503.01		-	1-31-24	-	100% SUBMITTAL
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	PROJ. MGR:				
	DATE:				

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LIFT STATION #10 RISER DIAGRAM

- NOTE:
- PUMP STATION WET WELL IS A CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATION THAT REQUIRES THE USE OF CONDUIT SEALS, OR AIR SPACE PROVISION, BETWEEN THE WET WELL AND POSSIBLE SOURCES OF IGNITION. CONDUIT SEALS, OR AIR SPACE, SHALL BE PLACED WITHIN (18)EIGHTEEN INCHES OF THE PUMP STATION CONTROL PANEL ENCLOSURE.
 - GROUNDING SHALL BE TESTED TO VERIFY THAT RESISTANCE TO EARTH/GROUND IN LESS THAN 26 OHMS. ADDITIONAL GROUND RODS SHALL BE INSTALLED (AS REQUIRED) TO ESTABLISH A GROUNDING RESISTANCE OF LESS THAN 26 OHMS. THE GROUNDING TEST SHALL BE COORDINATED WITH AND WITNESSED BY THE OWNER'S REPRESENTATIVE. REFER TO THE OWNER'S STANDARD SPECIFICATIONS.

BILL OF MATERIAL				
ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
1	NEMA 6P ENCLOSURE W/6P HINGED DOOR AND GASKETS 304SS 48Hx36Wx12D NOMINAL	NEMACO	N6P-483612-304	1
2	BACK PANEL EPOXY COATED STEEL	NEMACO	N69-IP4836	1
3	HINGED SWING-OUT PANEL - 304SS W/3 POINT TURN LATCH HANDLE	NEMACO	-	1
4	POWER DISTRIBUTION BLOCK 3-POLE 400-#6 1 IN. 2-#14 6 OUT	SQUARE-D	9080LBA363106	1
5	POWER DISTRIBUTION BLOCK 1-POLE 400-#6 1 IN. 2-#14 6 OUT	SQUARE-D	9080LBA163106	1
6	EQUIPMENT GROUND BAR	SQUARE-D	PK9GT4	1
7	PHASE MONITOR RELAY SOCKET	ATC DIVERSIFIED	SLA-230-ALA RB-08	1
8	ALTERNATING RELAY - DUPLEX	ATC DIVERSIFIED	ARA-24-ADA	1
9	BREAKER-60A, THREE POLE	SQUARE-D	HDL36060	2
9A	EMERGENCY BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9B	MAIN BREAKER - 100A, THREE-POLE	SQUARE-D	HDL36100	1
9C	H/J FRAME MECHANICAL INTERLOCK FOR TOGGLE HANDLE	SQUARE-D	S29354	2
10	BREAKER-20A, SINGLE POLE	SQUARE-D	BDL16020	5
11	FULL VOLTAGE NON-REVERSING SIZE 2 STARTER	SQUARE-D	85365D01V02H305	2
12	SURGE PROTECTIVE DEVICE	SURGE SUPPRESSION, INC	LS5D-3Y1-D1XS	1
13	35mm DIN RAIL	SQUARE-D	9080MH320	AS REQ'D
14	FEED THROUGH TERMINAL	SQUARE-D	9080GM6	AS REQ'D
15	END BARRIER	SQUARE-D	9080GM6B	AS REQ'D
16	END CLAMP	SQUARE-D	9080MHA10	AS REQ'D
17	INTRINSICALLY SAFE RELAY	R-K ELECTRONICS	ISR-24V-10K	2
18	GEMS ZENER BARRIER	TEQUIPMENT	54801	2
19	PUMP MONITORING/CONTROL RELAY w BASE	PUMP VENDOR	-	2
20	RELAY, OCTAL PLUG-IN, 3PDT 120VAC w/RELAY SOCKET	EATON	D3RF3A D3PA7	2
21	(NOT USED)	-	-	-
22	RELAY, OCTAL PLUG-IN, 3PDT 24VDC w/RELAY SOCKET	SQUARE-D	D3RF3T1 D3PA7	7
23	MINIATURE PLUG-IN RELAY - 24VDC	SQUARE-D	RXM4AB2BDPVM	1
24	PILOT LIGHT - w/GREEN LENSE	ALLEN-BRADLEY	800T-QTH2G	2
25	3 POSITION SELECTOR SWITCH w/"H-0-A" LEGEND PLATE	ALLEN-BRADLEY	800T-J2B 800T-X511	2
26	HOUR COUNTER PANEL METER	GRASSLIN	UWZ48E-12050U	3
27	PILOT LIGHT - w/RED LENSE	ALLEN-BRADLEY	800T-QTH2R	7
28	EXTERNAL RESET MECHANISM	SQUARE-D	9066RA1	1
29	DUPLEX SERVICE RECEPTACLE 20A, 125VAC, G.F.I. w/COVER	LEVITON	GFWT2-T	1
30	WIREWAY DUCT 2"x4" w/COVER	HOFFMAN	A200400WH A200CWH	AS REQ'D
31	LED ALARM BEACON - 12-24VDC, NEMA 4X	EDWARDS SIGNALING	94PLEDMR24AD	1
32	ALARM HORN - WEATHERPROOF, 24VDC, NEMA 4X	EDWARDS SIGNALING	877-G1	1
33	PUSH BUTTON - MOMENTARY CONTACT, BLACK, 1 NO	ALLEN-BRADLEY	800T-B2D1	1
34	BREAKER-10A, THREE POLE	SQUARE-D	QOU310	1
35	EMERGENCY RECEPTACLE - 100A, 3φ 4 WIRE, NEMA 6P/IP67 W/BACK BOX	LEVITON	4100R9W BX100-V	1
36	VIBRATING HORN 120VAL NEMA 4X	EDWARDS	876-N5	1
37	FLASHING ALARM LIGHT - RED LED MICROLERT NEMA 6P CAPABLE	TOMAR ELECTRONICS	290LF-120-240	1

BOM NOTES:
 1 VIBRATING HORN HAS A NEMA 4X ENCLOSURE. THEREFORE CONDUIT INTO THE NEMA 6P PANEL SHALL BE SEALED WITH SILICONE OR SIMILAR SEALANT.

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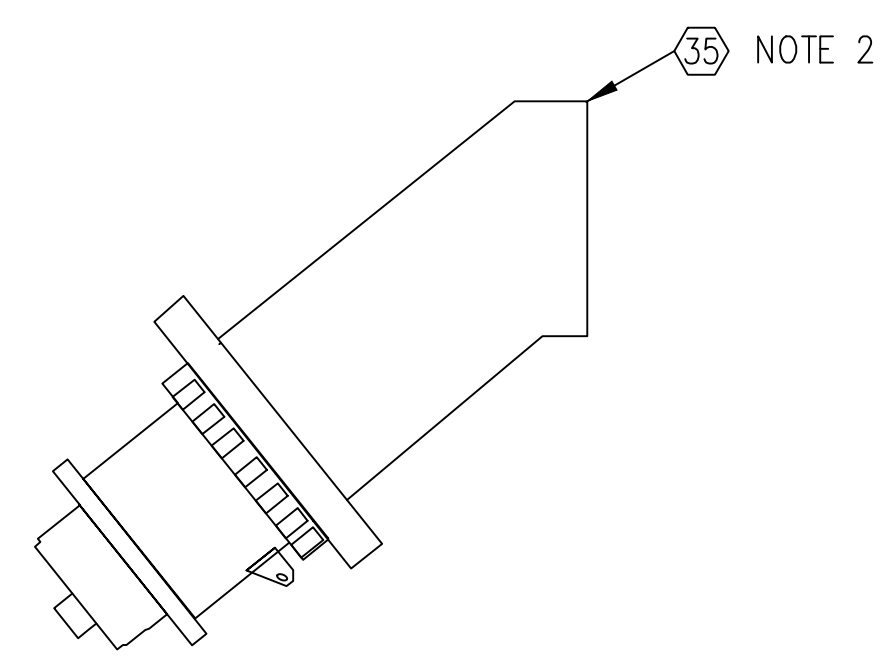
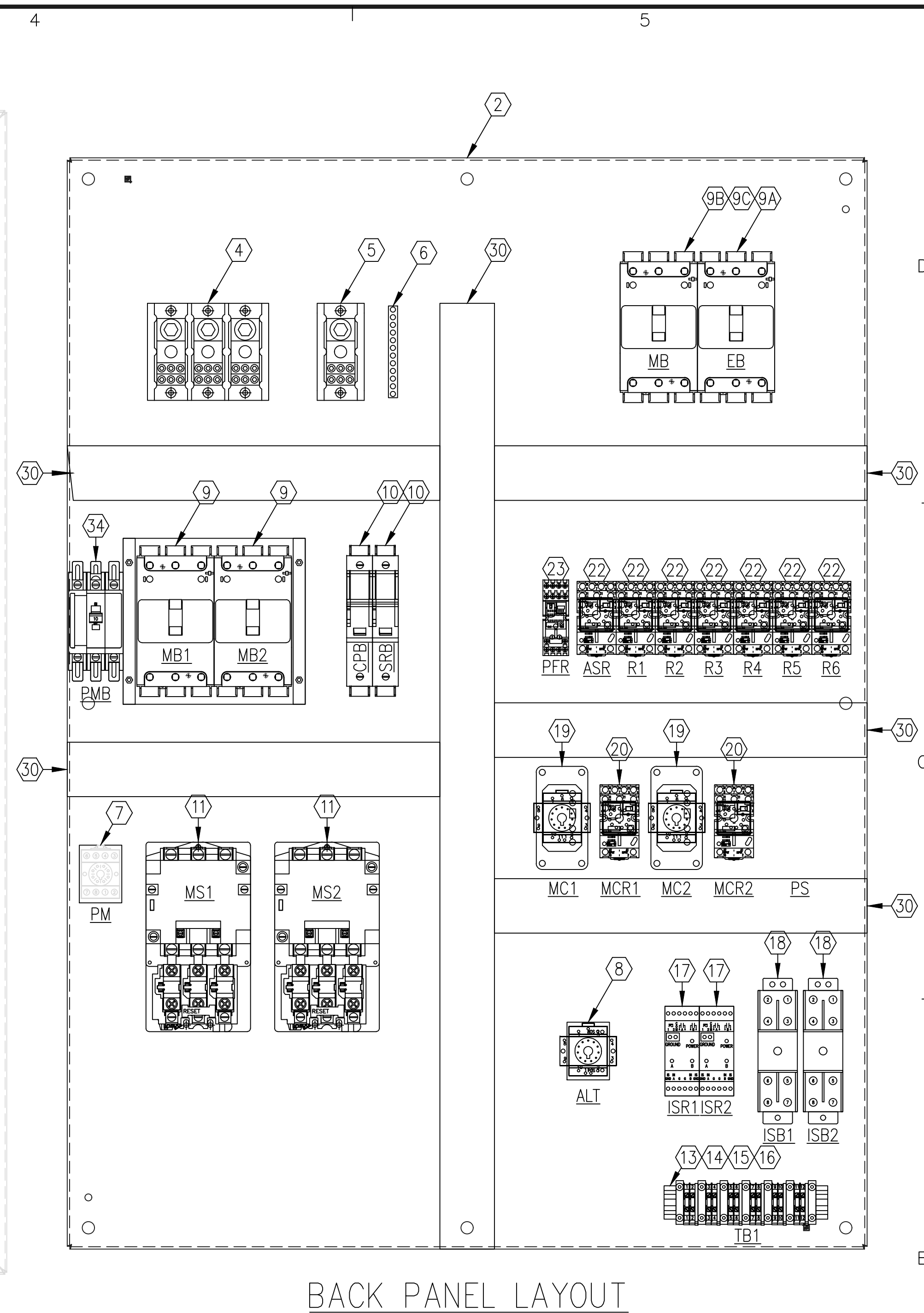
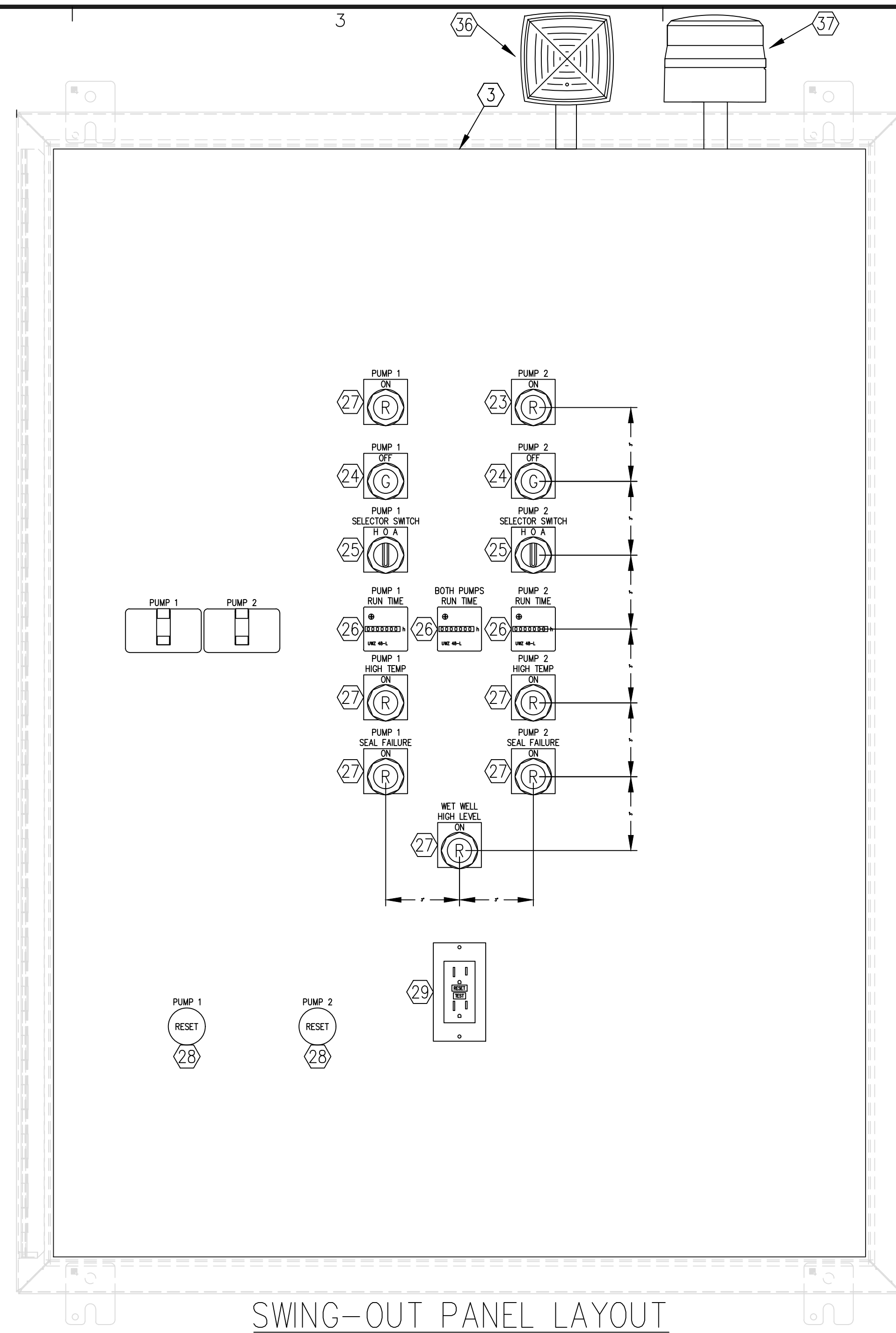
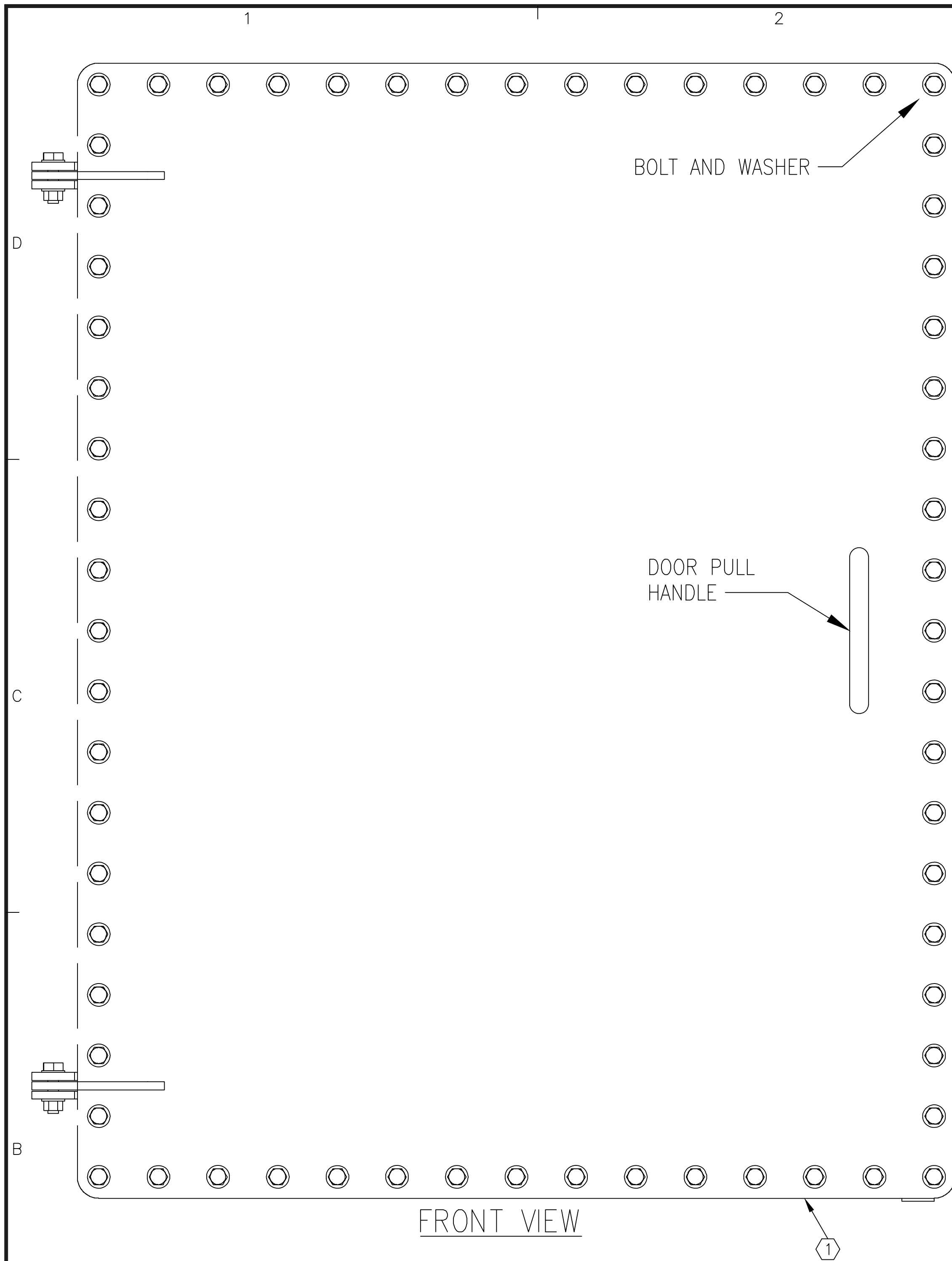
CONAR KEY
SANITARY SEWER
LIFT STATION
RENEWAL

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN	
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123503.01	1	1-31-24			

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 CHK'D BY: _____
 PROJ. MGR: JNU
 DATE: FEBRUARY 2023

LS 10
 ELECTRICAL
 RISER/1-LINE DIAGRAM

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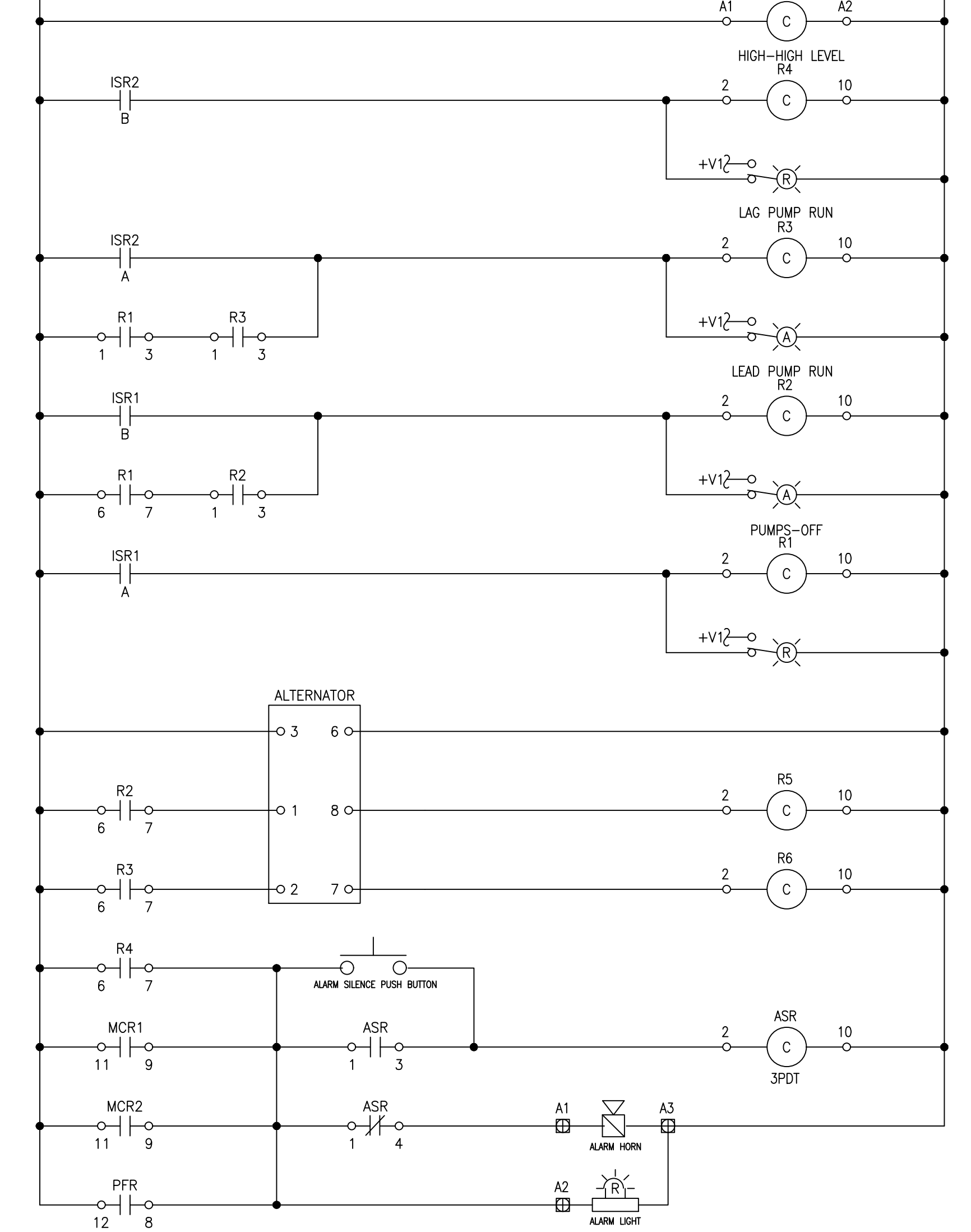
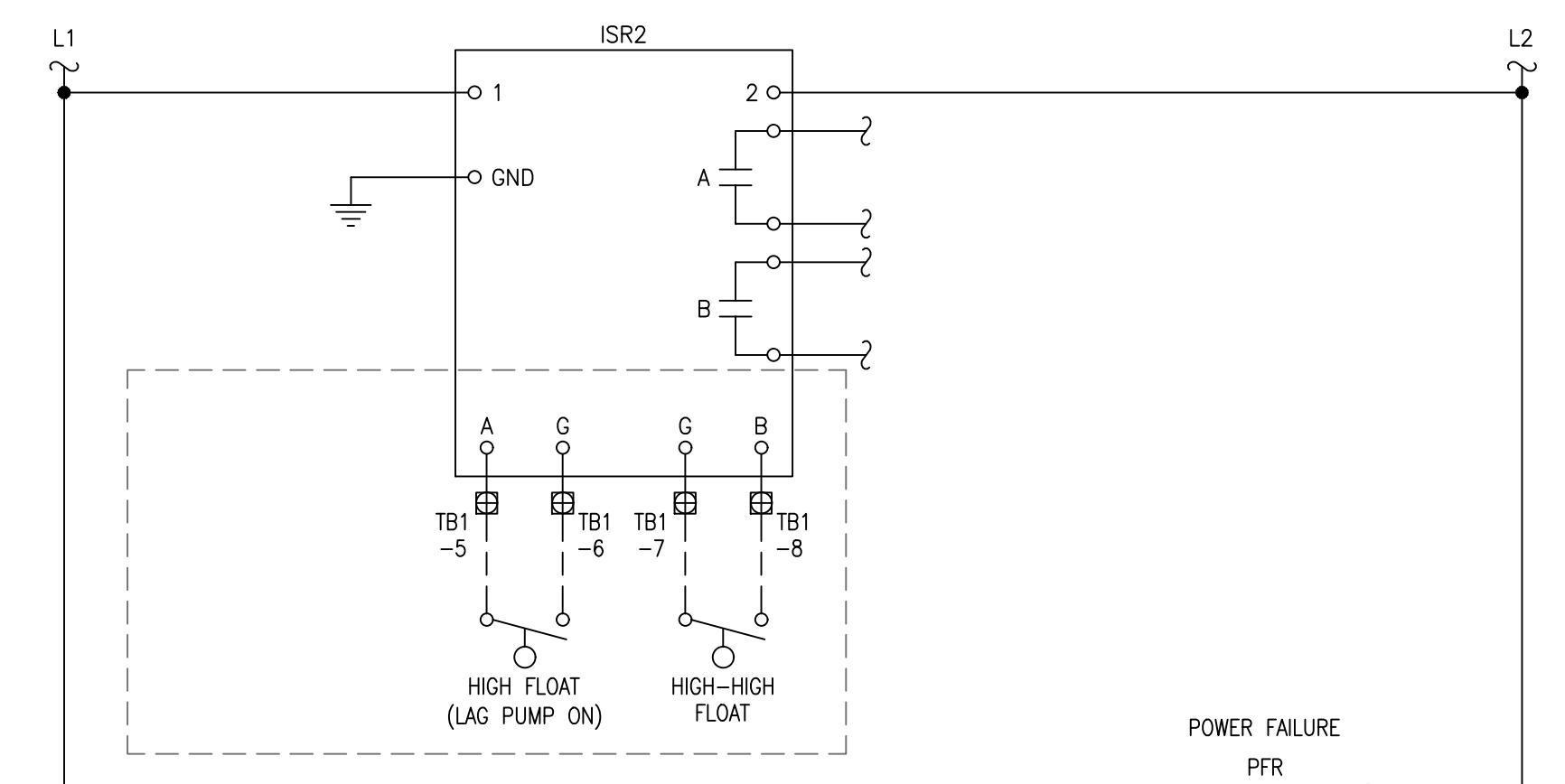
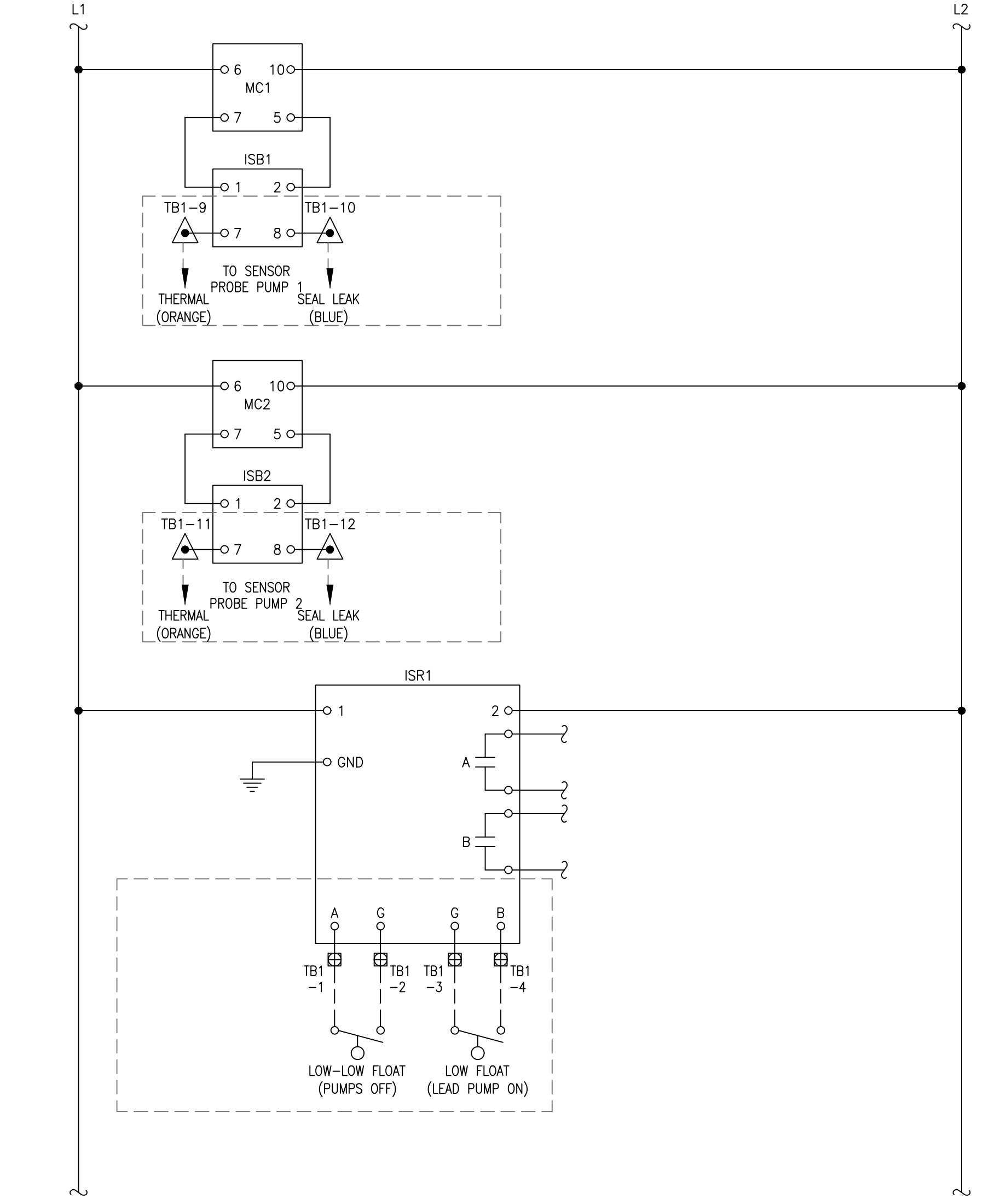
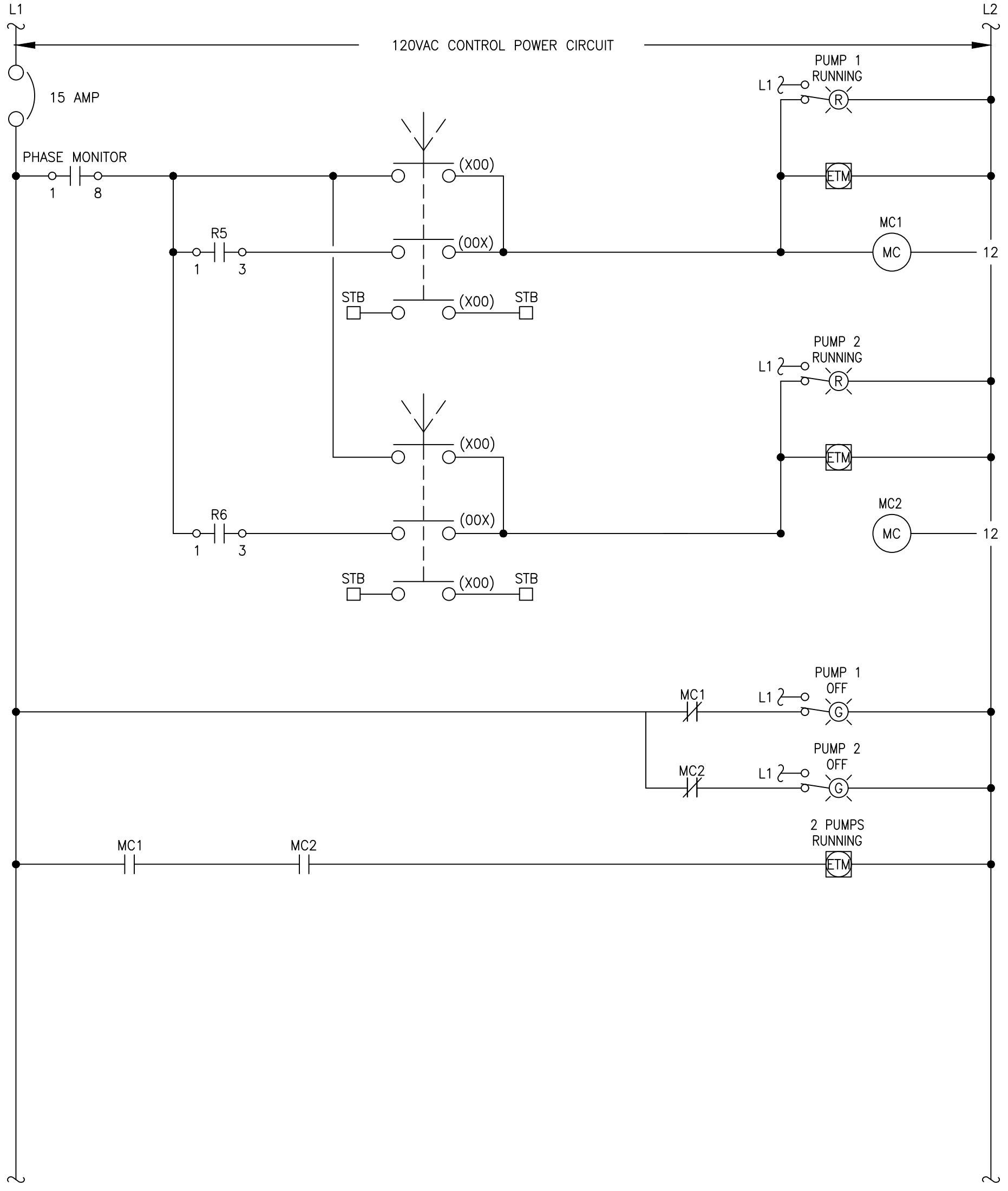
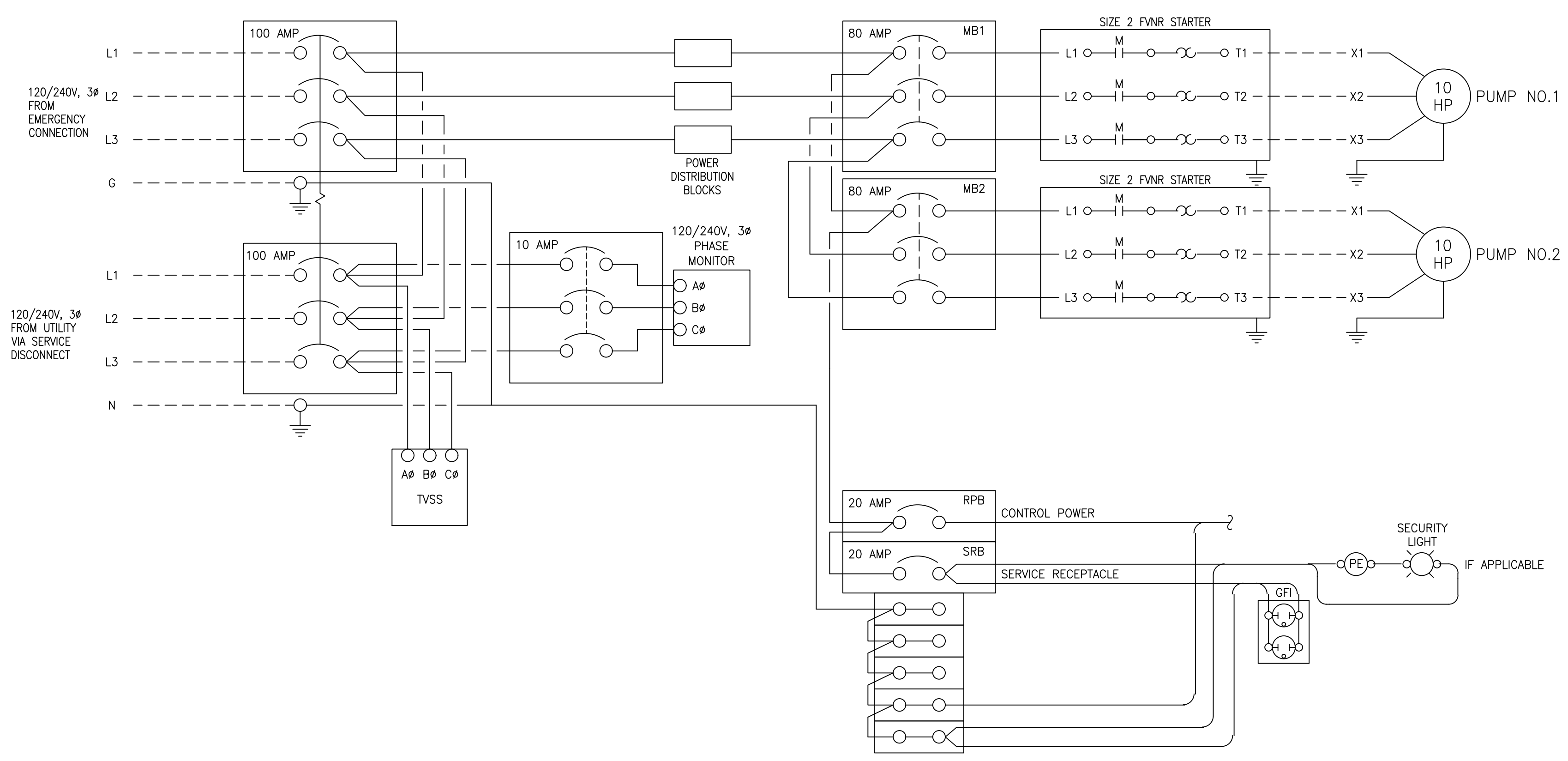


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<p>PROJECT NO: 123503.01</p> <p>DESIGNED BY:</p> <p>DRAWN BY:</p> <p>CHK'D BY:</p> <p>PROJ. MGR: JMU</p> <p>DATE: FEBRUARY 2023</p>	<p>REVISION/ACTION TAKEN</p> <p>100% SUBMITTAL</p> <p>DATE: 1-31-24</p> <p>APPR: -</p> <p>NO. -</p> <p>NOT RELEASED FOR CONSTRUCTION BY DATE</p>
<p>LS 10 ELECTRICAL CONTROL PANEL LAYOUT</p>	
<p>E-119</p>	

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- LEGEND**
- AH - ALARM HORN
 - AL - ALARM LIGHT
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 ENGINEERING BUSINESS EB-0000340
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CONAR KEY
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LIFT STATION
RENEWAL

PROJECT NO.	DESIGNED BY:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
123503.01	DRAWN BY:	1	1-31-24	-	100% SUBMITTAL
	CHK'D BY:				
	PROJ. MGR:				
	DATE:				

LS 10
ELECTRICAL WIRING
DIAGRAM