TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PROJECT

PHASE I: BAYOU CANE PUMP STATION

TPCG PROJECT NO. 17-DRA-42

****

ADDENDUM NO. 1

Date Issued: March 2, 2023

****

This Addendum No. 1 shall be part of the above referenced project.

Acknowledge receipt of this Addendum No. 1 by inserting its number in the space provided in the latest version of the Louisiana Uniform Public Work Bid Form. Failure to do so may subject the bidder to disqualification.

Agustin J. Rega, P.E.

GIS Engineering, LLC.

TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PROJECT
PHASE I: BAYOU CANE PUMP STATION
PARISH PROJECT NO. 17-DRA-42

This Addendum is issued for the purpose of modifying, clarifying, or revising, as applicable, the specified items of the original Contract Documents. It is also issued for the purpose of adding, as applicable, the attached specified items to the original Contract Documents, or deleting, as applicable, the attached specified items from the original Contract Documents. The Addendum and attachments shall be construed as much a part of the original Contract Documents as contained therein. Changes made by Addenda shall take precedence over original Contract Documents.

GENERAL ANNOUNCEMENT

Bid opening remains unchanged. Bids will be received by the Terrebonne Parish Consolidated Government (TPCG) until **Tuesday, March 7, 2023 at 2:00 P.M.** Bidders must submit bids using the latest revision of the Louisiana Uniform Public Work Bid Form, attached to this addendum.

PART I – WRITTEN CONTRACTORS QUESTIONS

Contractor's Written Questions and Engineer's Responses

PART II – MODIFICATIONS TO CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, PLANS, AND OTHER DOCUMENTS

Modifications to Contract Documents and Technical Specifications.

PART III – APPROVED EQUAL REQUESTS

PART IV – ATTACHMENTS

1. Pre-Bid Conference Sign-in Sheet (2 pages)
2. Pre-Bid Conference Meeting Notes (4 pages)
3. Louisiana Uniform Public Work Bid Form (7 pages)
4. Plan Sheet G02 – GENERAL NOTES (1 page)
5. Plan Sheet C05 – ENLARGED SITE PLAN (1 page)
6. Plan Sheet C07 – TYPICAL SECTIONS & DETAILS (1 page)
7. Plan Sheets S03 through S24 (22 pages)
8. Plan Sheets E1.1 through E1.3 (3 pages)
9. Plan Sheet E2.0 – ELECTRICAL RISER DIAGRAM (1 page)
10. Plan Sheet M1.0 – CONTROL BUILDING MECHANICAL PLAN (1 page)
11. Specification Section TS-01 “STEEL SHEET PILE” page 6 (1 page)
12. Specification Section TS-07 “STRUCTURAL STEEL” page 10 (1 page)
13. Specification Section TS-12 “DISCHARGE PIPE SYSTEM” (4 pages)

Addendum No. 1 Pages	12 pages
Attachment Pages	49 pages
Total Addendum and Attachments Pages	**61 pages**

PART I – Written Contractors' Questions

NOTE – The responses presented in PART I may differ from those presented in the Pre-Bid Conference. The responses in PART I are current as of the date of this Addendum and if different supersede those provided at the Pre-Bid Conference or any previous addenda.

Contractors' General Questions Received

1. Can you provide the job estimate for the Bayou Cane Pump Station in Terrebonne Parish?

   Response: **The job estimate for the above referenced project is $7.0M. This estimate includes the base bid and three alternates.**

2. Is this job BUY AMERICAN?

   Response: **No.**

3. On drawing E1.3 the feeders to the ATS, MCC, GENERATOR and PUMPS are one size and on drawing E2.0 the same feeders are a different size, which drawing is correct?

   Response: **The POWER CONDUIT AND CABLE SCHEDULE identifying CONDUIT NUMBERs PC1-PC17 on Plan Sheet E1.3 is to be disregarded. Refer to the Electrical Riser Diagram or One-Line Diagram on Plan Sheet E2.0 for requirements. Please refer to the revised Plan Sheet E2.0 that is included in this Addendum.**

4. Size and length and details for fabricating and installing of stilling wells.

   Response: Still well details have been added to the plans through this addendum. Refer to plan sheets C05, C07 & S24 for details.

5. Drawing E1.1, Specific Note 7 is listed under Alternate #1. Is this a typo and should fall under Bid Ref. # E-04?

   Response: **Note has been revised on plan sheet M1.0 which is attached to this addendum. All HVAC units shall be included in the base bid.**

6. Drawing 2.0 Specific Notes 16 calls for 9 sets of (3-600's) between the 3000A rated ATS and the 3000A rated MCC. 9 sets of 600's equate to 3780 amps. Is it acceptable to reduce the number of parallel feeders to 8 sets of 600's which equates to 3360 amps or 7 sets of 750's which equates to 3325 amps?

Response: **Conductors specified in Specific Note No. 16 are aluminum rated for 3,060 amps.**

7. The same as question 6 above but in reference to Specific Note 19.

   Response: **Conductors specified in Specific Note No. 19 are aluminum rated for 3,060 amps.**

8. Are exit lights required to be installed in the Power Supply Building at each exit door?

   Response: **No, both egress doors egress to the building exterior.**

9. Please confirm a Fire Alarm System is not required per System Notes on drawing E0.0.

   Response: **Confirmed.**

10. Does the Power Supply Building require a lightning protection system?

    Response: **Refer to Plan Sheet E1.0, Specific Note No. 19.**

11. On drawing E1.3, should MSWB be referenced as MCC instead?

    Response: **Yes.**

12. Please clarify on drawing E1.3, conduit number PC12 MSWB to Panel H is the same as MCC to Panel PP2 as shown on drawing E2.0.

    Response: **The POWER CONDUIT AND CABLE SCHEDULE identifying CONDUIT NUMBERs PC1-PC17 on Sheet E1.3 is to be disregarded. Refer to the Electrical Riser Diagram or One-Line Diagram on Plan Sheet E2.0 for requirements. Please refer to the revised Plan Sheet E2.0 that is included in this Addendum.**

13. On drawing E1.3 conduit number PC13 calls for a 1”C to be routed between Panel H and Transformer T1. Drawing E2.0 shows Transformer T1 being fed from a breaker in the MCC. Please confirm which drawing is correct.

    Response: **The POWER CONDUIT AND CABLE SCHEDULE identifying CONDUIT NUMBERs PC1-PC17 on Sheet E1.3 is to be disregarded. Refer to the Electrical Riser Diagram or One-Line Diagram on Plan**

Sheet E2.0 for requirements. Please refer to the revised Plan Sheet E2.0 that is included in this Addendum.

14. On drawing E1.3, is Panel L the same as Panel PP1 on drawing E2.0?

    Response: **Panel L will be renamed PP1 and Panel H will be renamed PP2. Please refer to the revised Plan Sheet E1.3 that is included in this Addendum.**

15. It appears there are conflicts between the (Power) size conduits and feeders shown on drawing E1.3 and drawing E2.0. Which drawing is correct?

    Response: **The POWER CONDUIT AND CABLE SCHEDULE identifying CONDUIT NUMBERs PC1-PC17 on Plan Sheet E1.3 is to be disregarded. Refer to the Electrical Riser Diagram or One-Line Diagram on Plan Sheet E2.0 for requirements. Please refer to the revised Plan Sheet E2.0 that is included in this Addendum.**

16. Drawing E1.3 call for aluminum feeders for most of the large feeders. Drawing E2.0 does not specify a feeder type i.e., cu or al. Specification 260519 references copper conductors only. Are all conductors required to be copper?

    Response: **No. The POWER CONDUIT AND CABLE SCHEDULE identifying CONDUIT NUMBERs PC1-PC17 on Plan Sheet E1.3 is to be disregarded. Refer to Electrical Riser Diagram or One-Line Diagram on Plan Sheet E2.0 for requirements. All conductors in Specific Notes No. 15, 16, 19, 27 and 34 shall be aluminum. Please refer to the revised Plan Sheet E2.0 that is included in this Addendum.**

17. On sheet S03 it calls out for 9" slab on the equipment pad. On sheet S05 it calls out for 12". Which is correct?

    Response: **The concrete slab beneath the electrical building and beneath the generator shall be 9". The concrete slab beneath the transformer slab (small slab) shall be 12". Refer to the revised Plan Sheets S03 and S23 that is included in this Addendum.**

18. On sheet S05 which wall and ceiling detail do we use? A or B?

    Response: **The wall and ceiling detail that should be used is detail 2. Refer to the revised Plan Sheet S23 that is included in this Addendum.**

19. What permits are required?

Response: **No TPCG permits are required to be obtained by the Contractor. Environmental Permits have been obtained and Contractor must abide by these permits. Any DOTD related permits that may be required must be secured by the Contractor.**

20. Are there Fiber Optics in the area?

Response: **A Louisiana One Call was performed during the design of this project. All known utilities based on the Louisiana One Call during design are shown in the plans. The contractor shall perform a Louisiana One Call prior to any construction and shall be solely responsible for locating all utilities within the project area, both horizontally and vertically.**

21. Are we responsible to provide a SWPPP?

Response: **Yes, the Contractor will be required to submit a SWPPP prior to mobilization.**

22. Will the excavation material from pump station basin be used on site or hauled offsite?

Response: **The excavation material from the pump station shall become property of the Contractor. If excavated material is adequate for use where fill is required, and in compliance with the specifications, the excavated material can be used. Contractor shall be solely responsible for determining and proving that excavated material is adequate to be used as fill. If material is not adequate, Contractor shall haul material offsite.**

23. Will any borrow material needed from offsite source to be hauled in? If so, how much?

Response: **Refer to plan sheets C03 through C12 for typical sections and cross sections showing excavation and fill. If excavated material is adequate for use where fill is required, and in compliance with the specifications, the excavated material can be used. Contractor shall be solely responsible for determining and proving that excavated material is adequate to be used as fill. TPCG owns a borrow pit in Gray, Louisiana that the Contractor may obtain borrow material from for this project. Contractor will need to load material and haul material to the project site.**

24. Per NS-03 pump support framing falls under Structural Steel (Galvanized), there are no details for the pump supports or framing. Please provide details.

    Response: **The pump baseplate is supported on the pre-cast concrete panels. The baseplate of the pump is designed by the pump manufacturer. Measurement section on page 10 of Section TS-07 – STRUCTURAL STEEL, has been revised.**

25. Per NS-03 discharge pipe supports (including saddles and pipe hangers) falls under Structural Steel (Galvanized), there are no details for the pipe hangers. Please provide details.

    Response: **Refer to plan sheet S06 for details on discharge pipe support saddles.**

26. Per NS-03 Upper Deck Walkway Framing falls under Structural Steel (Galvanized), there are no details for the Upper Deck Walkway Framing. Please provide details.

    Response: **Refer to the structural plan sheets. There is no upper deck walkway, measurement section on page 10 of Section TS-07 – STRUCTURAL STEEL, has been revised.**

27. Per NS-03 Lower Deck Walkway Framing (Including HSS Struts) falls under Structural Steel (Galvanized), there are no details for the Lower Deck Walkway Framing (Including HSS Struts). Please provide details.

    Response: **Refer to the structural plan sheets. There is no lower deck walkway, measurement section on page 10 of Section TS-07 – STRUCTURAL STEEL, has been revised.**

28. Per NS-03 Pump Deck Framing falls under Structural Steel (Galvanized), there are no details for the Pump Deck Framing. Please provide details.

    Response: **The pump baseplate is supported on the pre-cast concrete panels. The baseplate of the pump is designed by the pump manufacturer. Measurement section on page 10 of Section TS-07 – STRUCTURAL STEEL, has been revised.**

29. Per NS-03 Grating falls under Structural Steel (Galvanized), there are no details for the Grating. Please provide details.

    Response: **Refer to Plan sheet S10 for grating detail.**

30. Per NS-03 Ladder assembly and tie-rods falls under Structural Steel (Galvanized), there are no details for the Ladder assembly and tie-rods. Please provide details.

Response: **There are no ladder assemblies nor tie-rods. Measurement section on page 10 of Section TS-07 – STRUCTURAL STEEL, has been revised.**

31. Per 803-03-00100 Steel Sheet Pile Wall (NZ14) 4.1 MEASUREMENT states "Measurement for the steel sheet pile will be made under the contract price, by square foot, which shall include all required steel sheet piles, weep holes, staff gage, and related of work. Measurement of structural steel walers and components, tie rod anchor systems will not be included in the Steel Sheet pile pay item and shall be measured under item No. S-11 Structural Steel". There is no pay item No. S-11, please advise where the walers are to go.

Response: **Specification TS-01 Measurement section has been revised. Walers shall be included in pay item NS-04 Structural Steel.**

32. NS-04 calls out that the walers and brackets are to be paid under this pay item, are the W16x36 walers supporting the NZ14s supposed to go in this pay item? If that is the intent the quantity doesn't indicate that, please advise.

Response: **Yes, the walers are to be included under item NS-04 along with the sheet pile caps, pile caps, and HSS struts. The quantities have been revised on the attached Louisiana Uniform Public Work Bid Form.**

33. Can you email out the sign-in sheet from the pre-bid.

Response: **Pre-bid sign-in sheet is attached to this addendum.**

34. The pump detail on drawing E3.0 calls for stainless steel conduit above grade, are all conduits that have to be installed on the pump deck such as controls and lighting need to be stainless steel?

Response: **Disregard requirement for stainless steel conduit on detail 1 on sheet E3.0. Installed conduit as specified elsewhere in the drawings/specifications.**

35. If stainless steel conduit is required what grade 304 or 316?

Response: **Disregard requirement for stainless steel conduit on detail 1 on sheet E3.0. Installed conduit as specified elsewhere in the drawings/specifications.**

36. There is no Bid Bond Form within the bid packet. Will the standard AIA Document A310 Bid Bond suffice?

Response: **Yes, the standard AIA Bid Bond will suffice.**

PART II – Modifications to Contract Documents, Technical Specifications, Plans, and Other Documents

Contract Documents:

1. Louisiana Uniform Public Work Bid Form has been revised as listed below. A revised Louisiana Uniform Public Work Bid Form is attached to this addendum and shall govern and replace any previous versions. **Contractors must use the attached Bid Form to submit bids.**
    - Item NS-03 quantity has been revised.
    - Item NS-04 quantity has been revised
    - Item NS-12 has been added to the bid form.
    - Item NS-13 has been added to the bid form.

Plans:

1. *Plan Sheet G02 – GENERAL NOTES* has been revised with an updated sheet list. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

2. *Plan Sheet C05 – ENLARGED SITE PLAN* has been revised to include still well locations and electrical junction box locations. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

3. *Plan Sheet C07 – TYPICAL SECTIONS & DETAILS* has been revised to include still well details. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

4. *Plan Sheet S03 – STRUCTURAL SITE PLAN – EQUIPMENT SLAB* has been revised for slab thicknesses. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

5. *Plan Sheets S04 through S23* have been re-numbered and are attached to this addendum. Attached plan sheets shall govern and replace any previous editions.

6. *Plan Sheet S04 – LONGITUDINAL SECTION THRU PUMP STATION* has been revised to clarify discharge pipe coating intent, include electrical junction box profile, and clarify painted steel members. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

7. *Plan Sheet S10 – PRECAST CONCRETE PANEL DECK PLAN* has been revised to show proposed still well location. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

8. *Plan Sheet S23 – POWER SUPPLY BUILDING PLANS* has been revised to show slab thickness and ceiling detail. A revised plan sheet is attached to this addendum and shall govern and replace any previous versions.

9. *Plan Sheet S24 – MISCELLANEOUS STRUCTURAL DETAILS* has been added to the plan set to show still well strap details and electrical junction box mounting details. The new sheet is attached to this addendum and shall be included in the plan set.

10. *Plan Sheet E1.1 through 1.3* –have been revised. The revised sheets are attached to this addendum and shall govern and replace any previous versions.

11. *Plan Sheet E2.0 – ELECTRICAL RISER DIAGRAM* has been revised. The revised sheet is attached to this addendum and shall govern and replace any previous versions.

12. *Plan Sheet M1.0 – CONTROL BUILDING MECHANICAL PLAN* has been revised. The revised sheet is attached to this addendum and shall govern and replace any previous versions.

Specifications:

1. Section *TS-01 "STEEL SHEET PILE" subsection 4.1 – Measurement (page 6)* has been revised. The revised sheet is attached to this addendum and shall govern and replace any previous versions.

2. Section *TS-07 "STRUCTURAL STEEL" subsection 4.1.B – Measurement (page 10)* has been revised. The revised sheet is attached to this addendum and shall govern and replace any previous versions.

3. Section *TS-12 "DISCHARGE PIPE SYSTEM" subsections 2.1 and 2.3* have been revised. The revised specification is attached to this addendum in its entirety and shall govern and replace any previous versions.

Other Documents:

NONE

PART III – Approved Equal Requests

1. D & J Machinery, Inc. Automatic Trash Rakes

   Engineer's Response: APPROVED.

ENGINEERING LLC

Terrebonne Parish Consolidated Government
Bayou Terrebonne Drainage Project
Phase I: Bayou Cane Pump Station
TPCG Project No. 17-DRA-42

Tuesday, February 16, 2023
10:00 A.M.

ATTENDANCE REGISTER

NAME	COMPANY NAME	PHYSICAL ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS
Kevan Keiser	GIS	197 Elysian Dr Houma, LA 70363	985-219-1000	kkeiser@gisy.com
Carol Bascle Jr	TPCG	209 Bourg Drive Bourg La. 70343	985-804-9895	cbascle@tpcg.org.
Joey Cehan	TPCG	216 Hualeah Ave Houma, LA 70363	985.855-3385	jcehan@tpcg.org
Mona Maronge	Force Industries	240 Capital Dr Houma, LA 70361	985-346-0256	Mona@forceind.net
Taylor Rayer	Shavers-Whittle Construction	815 Rapatel Street Mandeville, LA 70448	985-626-7673	Trayer@swcllc.net
Eugene Robichaux	LowLand	206 Ind. Ave C. Houma, La. 70363	985-446-1314	gene@lowlandcci.com
Dwayne Veillon	GIS	197 Elysian Dr	985-665-2388	dveillon@gisy.com
Ryan McCann	Bottom Line Equipment	St. Rose, LA Airline Dr	504-330-2815	ryanm@bottomlineequipment.com
DAVID CROCHET	LOW LAND CONST	206 INDUSTRIAL AVE C HOUMA, LA 70363	985-4461314	LOWLAND@LOWLANDCCI.COM
Ian Gravois	Low Land Const	206 Industrial Ave C Houma, LA 70363	985-414-4500	ian@lowlandcci.com

	NAME	COMPANY NAME	PHYSICAL ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS
	James R. Blakely	Sealevel Construction	1069 LA-3185 Thibodaux, LA 70301	985-448-0970	rblakely@sealevelinc.com
	Oscar Perez	Associated Pump & Supply	9074 Park Ave. Houma, La 70363	office 985-851-7077 Cell: 985-381-6066	pklingman@associatedpump.com office@associatedpump.com oscar@associatedpump.com
	Roy RAVIA	ORION	Hwy 225	cell-337-912-8702	rravia@orionmarinegroup.com
14	Brock Latiolais	Impetus Infrastructure	1730 Tchoupitoulas street New Orleans La	985-373-1394	blatiolais@buildimpetus.com
15	Sims Regard	WASKEY	2651 N. Flannery BR, LA 70814	225-337-1424	Sims@Waskey.com
16	JIM H. PELLEGRIN	LLTG / FRISCO CONST	128 WEST WOODLAWN RANCH RD HOUMA	985-876-3807	JIMPELLEGRIN@FRISCOCONSTRUCTIONCO.COM
17	Britt Cavalier	E&E Machine	107 Pico Dr	985-851-5955	[illegible] Britt@EEmachine.com
18	Ann Hebert	GIS Engeneering, LLC	197 Elysian Drive Houma, LA 70363	985-219-1001	ahebert@gisy.com
19	Trey middleton	GIS Engineering, LLC	197 Elysian Drive Houma, LA 70363	985-219-1000	tmiddleton@gisy.com
20	Brenton Hebert	GIS Engineering LLC	197 Elysian Drive Houma, LA 70363	985-219-1000	bhebert@gisy.com
21					
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ENGINEERING LLC

Coastal Design & Infrastructure
197 Elysian Dr.
Houma, LA 70363
P: (985) 219-1000 | F: (985) 475-7014
www.gisyeng.com

Date: February 16, 2023, 10:00 A.M.

Project: Terrebonne Parish Consolidated Government
Bayou Terrebonne Drainage Project
Phase I: Bayou Cane Pump Station
TPCG Project No. 17-DRA-42
GIS Project No. 39130-1071/1072

Location: GIS Engineering, LLC
197 Elysian Drive
Houma, LA 70363

PRE-BID CONFERENCE MINUTES

Meeting Led By: Kevan Keiser
Minutes Prepared By: Brenton Hebert
Reviewed By: Trey Middleton

SAFETY TOPIC: *(Provided by Trey Middleton)*
Today's safety topic focused on Mardi Gras; discussing child, vehicular, and personal safety at parades.

1. Roster Signatures and Introductions

    a. Owner – Terrebonne Parish Consolidated Government (TPCG)
    b. Engineer – GIS Engineering, LLC (GIS)

2. Scope of Work

    The work consists of providing all equipment, labor and material necessary for the construction of the proposed Bayou Cane Pump Station *(approximate location – directly behind Rouse's at 5818 West Main Street)*, including the following components:

    - Channel Dredging includes *general excavation, clearing, grubbing, etc.;*
    - Construction of New Access Road;
    - Pump Station Structure; includes Steel Floodwall and Bulkhead with Support Bracing, Concrete Support Piles, Upper and Lower Decking, Trash Screen Assembly, etc.;
    - (2) Vertical Axial Flow Pumps, Discharge Piping, and other Related Components. *Pump Station will be constructed to house 4 pumps under the base bid, but only two pump systems are part of the base bid;*
    - Rip Rap Installation (55 lb. class and 130 lb. class) *bank line and sump/discharge basin rock;*
    - Security Fencing;
    - Electrical and Lighting;
    - Telemetry and Pump Control System;
    - Pile Supported Concrete Foundation for MCC Room and Standby Generators;
    - Construction of Climate Controlled MCC Room;
    - (2) Vertical Axial Flow Pumps, Discharge Piping, and other Related Components (Alternate Bid No. 1);

- Standby Diesel Generator *and pile supported Generator Slab* (Alternate Bid No. 2);
- Automatic Trash Rake Assembly with Control System (Alternate Bid No. 3).

3. Delivery of Bids:

   Sealed bids will be received on Tuesday, March 7, 2023, by the Terrebonne Parish Consolidated Government (TPCG) Purchasing Division, at the City of Houma Service Complex, 301 Plant Road, in Houma, Louisiana until 2:00 P.M. as shown on the Purchasing Division Conference Room Clock, and, at the time and place, shall be publicly opened and read aloud. No bids will be received after 2:00 P.M.

4. Proper Preparation and Submission of Bids (*Section 10.0 of Section B – Instruction to Bidders)*

   a. Bids to be submitted by the time and at place indicated in the Invitation to Bidders and shall be enclosed in a sealed envelope. *Bids can also be submitted on central auction house.*
   b. Envelope shall include Project title and name, address and state license number of the Bidder.
   c. Each Bid Proposal packet shall include:
      i. Completed Uniform Public Work Bid Form
      ii. Signature Authorization with written evidence of authority (LA R.S. 38:2212(B)(5))
      iii. Bid Bond with Power of Attorney, or Certified Check or Cashier's Check, all in the amount of 5% of the total amount of the bid.
      iv. Completed Unit Price Form. *Make sure unit prices and extensions calculate correctly, as this is an area where mistakes are common.*

5. Bid Completeness Requirements – *including, but not limited to, the following:*

   a. Acknowledgement of Addenda on Bid Proposal.
   b. Properly fill in unit price and extension price of each item included in the Bid Form.
   c. Complete bidder information as requested.
   d. Sign and Attest the bid.

6. Project Addenda:

   a. Clarifications in response to questions concerning Contract Documents will be issued in an Addendum.
   b. Send all questions to BidQuestions@gisy.com. Any questions submitted outside of this provided email address will not be considered. *Please don't call and/or email the GIS project team with questions, only submit them to the provided email address.*
   c. Addenda will be issued as soon as possible, but no later than Thursday, March 2, 2023 before 2:00 P.M. Addenda will be available at http//www.centralbidding.com by clicking on the Project Link, and will also be sent via email provided on the sign-in sheet for this meeting.

7. Contract Documents and Requirements:

   a. Listed in Section F – Standard Form of Agreement Between Owner and Contractor
   b. Contract Documents include complete Plan, Specifications, Addenda and Reference Documents.

8. General Project Information:

   a. Contract Time: 365 Calendar Days from Notice to Proceed.
   b. Estimated Project Budget:

Base Bid	$5.4 Million
Alternate Bid No. 1	$1.0 Million
Alternate Bid No. 2	$425 Thousand
Alternate Bid No. 3	$770 Thousand

   c. Required Contractor's License: Highway, Street & Bridge Construction and/or Heavy Construction & Municipal and Public Works Construction

d. Liquidated Damages: $1,500.00 per day. Refer to Article 3 of Section F - Standard Form of Agreement Between Owner and Contractor of the Contract Documents for specifics.
e. Contractor's Liability Insurance: Please refer to Paragraph 5.4 of Section I – General Conditions for requirements.
f. There will be mandatory monthly progress meetings with Engineer and Owner personnel during construction.

9. Special Provisions
    a. 1.11 – Contract Time
    b. 1.12 – Time Constraints
    c. 1.13 – Load Limits
    d. 1.16 – Maintenance of Drainage
    e. 1.17 – Communication
    f. 1.18 – Sanitation Facility
    g. 1.19 – Tax Exemption
    h. 1.24 – Red Line As-Builts
    i. 1.29 – Waste Materials
    j. 1.3*6* – Construction Schedule
    k. 1.39 – Hurricane Preparedness Plan
    l. 1.42 – Engineer's Field Office

10. Other Relevant Items
    a. GOMESA Funding Compliance
    b. Construction Sequence and Means & Methods
        i. Responsibility of the Contractor.
        ii. Contractor to submit project schedule within ten (10) days of the Contract Date.
        iii. Work Plan for all project components.
        iv. See G06 and G07 in the plans for the recommended construction sequence.

11. Agency/Owner Comments
    - *Owner: TPCG mentioned the Bonanza pump station is nearby and this pump station will pull water from Bayou Cane during heavy rain, causing increased flows.*
    - *Engineer: Please note that this is a highly visible project and the permit process was very stringent. Stay within the construction limits as outlined by the plans and permit. The permit is provided in the construction documents, so familiarize yourself with the requirements. There can be no contaminated soils placed on this site and all debris must be hauled off. No burning of debris is authorized. This is historically indigenous land and if any artifacts are found, the Engineer must be notified.*

12. Bid Questions & Responses
    a. Questions received prior to this pre-bid conference will be addressed in an upcoming addendum within the following days. *There will be at least one addendum, which will include the sign-in sheet and minutes from today's Pre-Bid Conference.*
    b. All future questions shall be in writing and sent to the email address BidQuestions@gisy.com. We will not accept any questions over the phone or sent to direct emails.
    c. The last day to submit written questions will be Monday, February 27, 2023 until 2:00 P.M.

13. Site Familiarity
    a. Contractors are encouraged to visit and familiarize themselves with the site.

14. Adjourn

Project Contact Information

GIS Engineering, LLC	985-219-1000
Christopher Jeanice, P.E.	Client Manager
Kevan Keiser, P.E.	Project Manager
Agustin Rega, P.E.	Engineer of Record
Brenton Hebert, P.E.	Project Engineer
Joseph Chauvin	Construction Manager
Ann Hebert	Project Associate
Dwayne Veillon	Project Associate

SECTION C
LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Terrebonne Parish Consolidated Government
City of Houma Service Complex
301 Plant Road
Houma, LA 70363

BID FOR: Bayou Cane Pump Station
Parish Project No. 17-DRA-42

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: GIS Engineering LLC and dated: January 2023.
(Owner to provide name of entity preparing bidding documents.)

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA: (**Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) _____.

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____Dollars ($ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 *(Additional Axial Flow Pumps, Motors, and all Associated Components)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 2 *(Generator System and Reinforced Concrete Slab for Generator)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 3 *(Automatic Trash Rakes and Trash Rake Control System)* for the lump sum of:

_____Dollars ($_____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

_____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

** A **CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38: 2218.A is attached to and made a part of this bid.

SECTION C
LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Terrebonne Parish Consolidated Government
City of Houma Service Complex
301 Plant Road
Houma, LA 70363

BID FOR: Bayou Cane Pump Station
Parish Project No. 17-DRA-42

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		Clearing and Grubbing	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
201-01-00100	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		General Excavation (Net Section)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203-01-00100	2,357	CUBIC YARDS		

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		Embankment (Net Section)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203-03-00100	1,506	CUBIC YARDS		

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		Geotextile Fabric (General)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
203-08-00100	824	SQUARE YARDS		

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		Geotextile Fabric (Access Road)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
203-08-00200	903	SQUARE YARDS		

DESCRIPTION:	☒Base Bid or ☐Alt.# ___		Temporary Silt Fencing	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
204-06-00100	1,050	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Aggregate Surface Course (Net Section)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
401-01-00100	395	CUBIC YARD		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Chain Link Fence (6-Foot Height) w/ 3 Barbed Wire Strands	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
705-06-00300	328	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		10-Foot Double Gates for Chain Link Fence (6-Foot Height) w/ 3 Barbed Wire Strands	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
705-08-04040	2	DOUBLE GATE		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Riprap (Class 55Lb.) (18" Thick) – Wing Wall Levee Side	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
711-01-04000	29	SQUARE YARD		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Riprap (Class 55Lb.) (30" Thick) – Wing Wall Bayou Side	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
711-01-04030	29	SQUARE YARD		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Riprap (Class 130Lb.) (24" Thick) – Discharge Scour Pad & Intake Pad	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
711-01-05000	404	SQUARE YARD		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Temporary Traffic Control	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
713-01-00100	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Mobilization	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
727-01-00100	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Hydro-Seeding	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
739-01-00100	1	ACRE		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Construction Layout	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
740-01-00100	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Steel Sheet Pile Wall (NZ14)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
803-03-00100	13,259	SQUARE FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Treated Timber Piles (13" Butt, 7" Tip)	
REF. NO.	QUANTI200TY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
804-02-00200	3,120	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Steel Piles (HP14x73)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
804-03-01140	2,121	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Steel Piles (24" Pipe x 0.375" Thick) (Plumb)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
804-03-02120-1	450	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Steel Piles (24" Pipe x 0.375" Thick) (Batter 1.5V:1.0H)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
804-03-02120-2	553	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Structural Steel Reinforced Concrete (Class A1) (Sump Slab, Trash Screen, Barrier Curb & Approach Slab Foundation)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
805-01-00100	131	CUBIC YARDS		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Structural Steel Reinforced Concrete (Class A1) (Equipment Slab and Grade Beams)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
805-01-00101	35	CUBIC YARDS		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Pre-Cast Concrete Pile Caps	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-01	218	LINEAR FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Pre-Cast Concrete Deck Assembly	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-02	257	SQUARE YARD		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Structural Steel (Galvanized)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-03	2,386	POUNDS		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Structural Steel (Painted Coal-Tar Epoxy)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-04	19,630	POUNDS		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Hot-Dipped Galvanized Steel Trash Screen	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-05	1,140	SQUARE FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Vinyl Sheet Baffle Wall	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-06	2,424	SQUARE FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		100 CFS Vertical Axial Flow Pump & 250HP Submersible Electric Motor & Pump Discharge Can	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-07	2	EACH		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Air Release & Vacuum Breaker Valve	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-08	2	EACH		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Discharge Pipe System	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-09	2	EACH		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Exterior Signage	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-10	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Heavy Duty Steel Grating (H20 Load Rating)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-11	23	SQUARE FOOT		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		18” Dia. Still Wells (Includes all Labor, Equipment, & Materials Required for Proper Installation as per Plans)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-12	3	EACH		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Electrical Junction Box Supports (Includes all Labor, Equipment, & Materials Required for Proper Installation as per Plans)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
NS-13	4	EACH		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Electrical Power Supply, Gear & Lighting	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
E-01	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Pump Control Panel, Integrator Panel and Associated Components and Wiring	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
E-02	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Telemetry System (Including TCP, Antenna, Pole and Associated Components and Wiring)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
E-03	1	LUMP SUM		

DESCRIPTION:	☒Base Bid or ❑Alt.# ___		Electrical Building (Including HVAC System)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
E-04	1	LUMP SUM		

BID ALTERNATE NO. 1				
Additional Axial Flow Pumps, Motor, and all Associated Components				
DESCRIPTION:	❑Base Bid or ☒Alt.# 1		100 CFS Vertical Axial Flow Pump & 250P Submersible Electric Motor & Pump Discharge Can	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT1-1	2	EACH		

DESCRIPTION:	❑Base Bid or ☒Alt.# 1		Discharge Pipe System	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT1-2	2	EACH		

DESCRIPTION:	❑Base Bid or ☒Alt.# 1		Air Release & Vacuum Breaker Valve	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT1-3	2	EACH		

BID ALTERNATE NO. 2				
Generator System and Reinforced Concrete Slab for Generator				
DESCRIPTION:	❑Base Bid or ☒Alt.# 2		Generator System (Including Genset, ATS and Associated Components and Wiring)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT2-1	1	EACH		

DESCRIPTION:	❑Base Bid or ☒Alt.# 2		Generator Fuel System (Diesel Tank – 36 Hour Capacity)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT2-2	1	EACH		

DESCRIPTION:	❑Base Bid or ☒Alt.# 2		Structural Steel Reinforced Concrete (Class A1) (Generator Slab and Grade Beams)	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT2-3	18	CUBIC YARD		

BID ALTERNATE NO. 3				
Automatic Trash Rakes				
DESCRIPTION:	❑Base Bid or ☒Alt.# 3		Automatic Trash Rakes and Trash Rake Control System	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
ALT3-1	1	LUMP SUM		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

GENERAL NOTES:

1. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IS APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "LOUISIANA ONE CALL", AND THE APPROPRIATE UTILITY COMPANIES. CONTRACTOR SHALL BE CHARGED WITH THE RESPONSIBILITY OF PHYSICALLY VERIFYING THE EXACT LOCATION, DEPTH OR HEIGHT OF ALL UNDERGROUND AND OVERHEAD UTILITIES. THE CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL OR THE APPROPRIATE UTILITY COMPANIES FOR THE LOCATION OF UNDERGROUND SERVICES A MINIMUM OF 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.

2. THE CONTRACTOR IS WARNED THAT EXISTING OVERHEAD AND UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO ELECTRICAL LINES & POLES, DUCTS, CABLES, TELEPHONE CABLES, GAS LINES, WATER LINES, AND SANITARY SEWER LINES EXIST IN THE GENERAL AREA AND/OR RIGHTS OF WAY WHERE THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED. THESE PLANS DO NOT WARRANT THE EXISTENCE OR NON-EXISTENCE OF UTILITIES OR CONFLICTS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO IDENTIFY, TO LOCATE AND TO PROTECT ALL THE EXISTING UTILITIES IN THE FIELD AND TO TAKE NECESSARY PRECAUTIONS TO PREVENT ANY DAMAGE OR INTERRUPTION IN SERVICE TO ANY UTILITIES OR CONFLICTS LOCATED WITHIN THE PROJECT LIMITS. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE EXECUTION OF THE WORK UNDER THIS CONTRACT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THE OWNER DOES NOT ASSUME OR IMPLY TO ANY LIABILITY FOR THE LOCATION, PROTECTION, AND/OR REPAIR OF EXISTING UTILITIES THAT MAY OCCUPY JOINT RIGHT-OF-WAY, THE WORK AREA, OR OTHERWISE CONFLICT WITH THE CONSTRUCTION OF THE WORK TO BE INSTALLED UNDER THIS CONTRACT.

3. WHEN UTILITY COMPANIES ARE RESPONSIBLE FOR ADJUSTMENTS OF THEIR INDIVIDUAL ITEMS (UTILITY POLES, GUY WIRES, FIRE HYDRANTS, ETC.), THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE VARIOUS UTILITY COMPANIES TO MEET THESE REQUIREMENTS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE OWNER WITH PRECONSTRUCTION PHOTOGRAPHS OR VIDEOS OF ALL CONSTRUCTION AREAS PRIOR TO BEGINNING ANY WORK. ALL COSTS SHALL BE INCLUDED IN THE ITEM FOR MOBILIZATION.

5. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS DURING THE PERFORMANCE OF THIS PROJECT. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER AND THE OWNER ARE NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY WITH ANY REGULATIONS RELATED THERETO.

6. ALL CONSTRUCTION SHALL CONFORM TO THE LADOTD AND TERREBONNE PARISH STANDARDS, PROJECT PLANS AND CONTRACT DOCUMENTS AND BE SUBJECT TO OBSERVATION BY THE OWNER'S REPRESENTATIVES. CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF PROJECT PLANS AND A COMPLETE SET OF CONTRACT DOCUMENTS ON THE JOB SITE AT ALL TIMES.

7. THE CONTRACTOR SHALL NOTIFY FIBER OPTICS COMPANIES SEVEN (7) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THEIR AREA. EXTREME CAUTION SHALL BE USED IN AREAS WHERE FIBER OPTIC CABLE IS LOCATED ADJACENT TO CONSTRUCTION ACTIVITY.

8. THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL PERMITS AND INSPECTIONS THAT ARE REQUIRED TO PERFORM THE WORK. PERMITS SHALL BE OBTAINED AND INSPECTIONS SCHEDULED A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION

9. A PERMIT FOR DISCHARGES OF STORM WATER FROM CONSTRUCTION ACTIVITIES MAY BE REQUIRED FOR THIS PROJECT. PRIOR TO ANY CLEARING, GRUBBING, STRIPPING, STOCKPILING, EXCAVATION, EMBANKMENT OR OTHER GRADING ACTIVITIES, THE OWNER SHALL BE PROVIDED WITH AN LDEQ APPROVED COPY OF THE CONTRACTOR'S STORM WATER MANAGEMENT PLAN AND PERMIT FOR THE PROJECT IF REQUIRED.

10. SEDIMENT AND EROSION CONTROLS SHALL BE INSTALLED TO MEET THE PERMIT REQUIREMENTS, LADOTD SPECIFICATIONS AND STANDARD PLAN EC-01. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND REPAIR THE DEVICES AFTER EVERY MAJOR STORM EVENT AND TO REMOVE THE TEMPORARY CONTROLS AFTER DISTURBED AREAS ARE FINALLY STABILIZED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING A TRAFFIC CONTROL PLAN TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.

12. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGE TO ANY FACILITY, EQUIPMENT, CABLE, WIRE, PAVEMENT, OR OTHER STRUCTURE CAUSED BY HIS OPERATION WITH ACCEPTABLE SUITABLE MATERIALS, TO ORIGINAL (PRE-CONSTRUCTION) OR BETTER CONDITION AND TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE OWNER.

13. ALL EXISTING TREES OR SHRUBBERY WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS. ALL TREES THAT ARE REMOVED MUST BE HAULED OFF TO THE TPCG LANDFILL. NO CHIPPING OR BURNING WILL BE PERMITTED.

14. ALL DISTURBED NON-PAVED AREAS SHALL BE SEEDED AND FERTILIZED OR HYDRO-SEEDED AS DIRECTED BY ENGINEER.

15. WATER REQUIRED IN THIS PROJECT UNDER LADOTD SPECIFICATION SECTIONS 717, 718, 739 TO MAINTAIN THE SEEDING AND HYDRO-SEEDING WILL NOT BE MEASURED OR PAID. (NO DIRECT PAY.)

16. ACCESS TO ALL EXISTING DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES

17. CUT AND/OR FILL SLOPES SHALL BE AS SHOWN ON THE PLANS BUT SHALL NOT EXCEED 3 HORIZONTAL FEET TO 1 FOOT VERTICAL.

18. OBSERVATIONS OF THE WORK IN PROGRESS AND/OR FIELD TESTING PERFORMED BY THE OWNER OR ENGINEER SHALL IN NO WAY EXCUSE THE CONTRACTOR FOR DEFECTS DISCOVERED IN HIS WORK.

19. COMPACTION TESTING MAY BE DONE PERIODICALLY BY THE OWNER. THESE TESTS ARE INTENDED TO PROVIDE THE OWNER A GREATER DEGREE OF ASSURANCE THAT THE CONTRACTOR IS COMPLYING WITH COMPACTION REQUIREMENTS. THE CONTRACTOR IS NOT TO RELY UPON THESE TESTS FOR FILL CONTROL, NOR ARE THESE TESTS TO BE CONSTRUED AS A GUARANTEE BY THE OWNER OF THE CONTRACTOR'S CONTRACTUAL OBLIGATION.

20. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST REPORTS AND INSPECTION RECORDS TO THE OWNER AND ENGINEER.

21. ALL UTILITIES SHALL BE MAINTAINED IN CONTINUOUS SERVICE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES OR INTERRUPTION OF SERVICE RESULTING FROM CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO LOCATE AND MAINTAIN WATER AND SANITARY SEWER SERVICE TO EXISTING FACILITIES AT ALL TIMES.

22. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGGING, LIGHTING OF EXCAVATIONS, TRENCHES AND MANHOLES, DURING THE PERFORMANCE OF THIS CONTRACT AS REQUIRED BY THE OWNER AT NO DIRECT PAY.

23. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED BY A LOUISIANA LICENSED PROFESSIONAL LAND SURVEYOR.

24. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR CONSTRUCTION. ANY MISSING DIMENSIONS OR DISCREPANCIES IN PLANS, FIELD STAKING OR PHYSICAL FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING THE ENGINEER, HE DOES SO AT HIS OWN RISK.

25. THE CONTRACTOR SHALL SUBMIT A PROJECT CONSTRUCTION SCHEDULE TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY CONSTRUCTION STARTS.

26. THE CONTRACTOR SHALL AT ALL TIMES KEEP A SEPARATE, FULL SET OF CONTRACT DRAWINGS MARKED UP FULLY TO INDICATE AS BUILT CONDITIONS. SAID DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE WORK PRIOR TO FINAL ACCEPTANCE.

27. THE GEOTECHNICAL REPORT FOR EXISTING SOIL INFORMATION IS INCLUDED WITH THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL READ THROUGH THE REPORT AND FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO ALL RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.

28. THE CONTRACTOR SHALL UTILIZE TIMBER MATTING FOR ALL EQUIPMENT DURING CONSTRUCTION. TIMBER MATTING SHALL BE PROVIDED AT NO DIRECT PAY.

29. ANY ITEM NOT DESIGNATED TO BE REMOVED OR ANY EXISTING STRUCTURES, I.E. FENCE, GATE, PAVEMENT, LAWN, TREES, OR SHRUBBERY, AND ANY OTHER ITEM DISTURBED WITHIN CONSTRUCTION SERVITUDE OR OUTSIDE PROJECT ROW SHALL BE REPLACED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.

30. ALL LIMITS OF CONSTRUCTION SHOWN ON PLANS ARE BASED ON EARTHWORK. ALL OTHER WORK, SEWER, UTILITY, FENCE, ETC., MAY FALL OUTSIDE OF THE L.O.C. BUT SHALL BE WITHIN THE RIGHT OF WAY.

31. RESHAPING OF DITCHES SHALL BE PERFORMED AS REQUIRED BY THE ENGINEER. ANY DITCH/SWALE EXCAVATION WILL BE PAID FOR UNDER EXCAVATION AND EMBANKMENT.

32. CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING HIS OPERATIONS MAY REQUIRE, AT NO DIRECT PAY.

33. CONTRACTOR SHALL COORDINATE WITH THE ENERGY UTILITY COMPANY IN ORDER THAT THEIR REQUIRED ELECTRIC WORK IS COMPLETE BEFORE STARTUP TESTING OF THE NEW PUMP STATION.

34. NON PAVED AREA BETWEEN PROPERTY LINE AND EDGE OF PAVEMENT TO BE FILLED (AS SHOWN ON CROSS SECTION SHEETS) AND GRADED FOR POSITIVE DRAINAGE.

35. CONTRACTOR SHALL HYDROSEED ALL DISTURBED AREAS IN WHICH THE PLANS DO NOT CALL OUT FOR AGGREGATE SURFACE COURSE OR CONCRETE SLAB/DECK.

36. ANY EXCAVATION REQUIRED FOR CONSTRUCTION PURPOSES, OUTSIDE OF THE DREDGE PLAN & PROFILE LIMITS SHOWN ON THE PLANS IS CONSIDERED INCIDENTAL AND WILL HAVE NO DIRECT PAY.

37. ALL EXISTING FENCES AND GATES SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AS NEEDED FOR CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS. GATE AND FENCE REPLACEMENTS SHALL BE LEFT IN SAME OR BETTER CONDITION THAN FOUND. ALL FENCE AND GATE WORK SHALL BE DONE AT NO DIRECT PAY.

Sheet List Table

Number	Title
	GENERAL
G01	TITLE SHEET
G02	GENERAL NOTES
G03	VICINITY MAP
G04	GEOTECHNICAL BORING LOCATION PLAN
G05	GEOTECHNICAL BORING LOG
G06	CONSTRUCTION PHASING
G07	CONSTRUCTION PHASING
	CIVIL
C01	EXISTING SITE PLAN
C02	PROPOSED SITE PLAN
C03	ACCESS ROAD PLAN & PROFILE
C04	ACCESS ROAD PLAN & PROFILE
C05	ENLARGED SITE PLAN
C06	PUMP STATION PLAN AND PROFILE
C07	TYPICAL SECTIONS & DETAILS
C08	ACCESS ROAD AND LEVEE - PROPOSED SECTIONS
C09	ACCESS ROAD AND LEVEE - PROPOSED SECTIONS
C10	PUMP STATION PROPOSED SECTIONS
C11	PUMP STATION PROPOSED SECTIONS
C12	PROPOSED GRADING PLAN
	STRUCTURAL
S01	STRUCTURAL GENERAL NOTES
S02	STRUCTURAL SITE PLAN - PUMP STATION
S03	STRUCTURAL SITE PLAN - EQUIPMENT SLAB
S04	LONGITUDINAL SECTION THRU PUMP STATION
S05	SECTIONS THRU PUMP STATION
S06	SECTIONS THRU PUMP STATION
S07	STRUCTURAL LAYOUT PLAN
S08	PILE LAYOUT PLAN AND SCHEDULE
S09	PILE LAYOUT PLAN AND SCHEDULE
S10	PRECAST CONCRETE PANEL DECK PLAN
S11	PRECAST CONCRETE PANEL DECK DETAILS
S12	PRECAST CONCRETE PANEL ADDTL REINFORCEMENT
S13	SHEET PILE BULKHEAD DETAILS
S14	BAFFLE WALL DETAILS
S15	PRECAST CONCRETE PILE CAP AND DECK DETAILS
S16	TRASH SCREEN SECTION AND DETAILS
S17	TRASH SCREEN SECTION AND DETAILS
S18	FENCING PLAN
S19	SECURITY FENCING DETAILS
S20	SECURITY FENCING DETAILS
S21	SECURITY FENCING DETAILS
S22	POWER SUPPLY BUILDING PLANS
S23	POWER SUPPLY BUILDING PLANS
S24	MISCELLANEOUS STRUCTURAL DETAILS

	EROSION CONTROL
EC-01	TEMPORARY EROSION CONTROL DETAILS
EC-01(2)	TEMPORARY EROSION CONTROL DETAILS
	ELECTRICAL
E0.0	ELECTRICAL NOTES AND SCHEDULES
E0.1	ELECTRICAL LEGEND
E0.2	ELECTRICAL DETAILS
E0.3	ELECTRICAL DETAILS
E1.0	ELECTRICAL SITE PLAN
E1.1	CONTROL BUILDING ELECTRICAL PLAN
E1.2	ELECTRICAL CONTROL CABLE SITE PLAN
E1.3	ELECTRICAL CONTROL CABLE SCHEDULE
E2.0	ELECTRICAL RISER DIAGRAM
E2.1	ELECTRICAL PANEL SCHEDULE
E3.0	ELECTRICAL DETAILS
E4.0	INTERWIRING LAYOUT - VIEW A
E4.1	INTERWIRING LAYOUT - VIEW B
E4.2	TYPICAL PANEL PLACEMENTS
E4.3	INTERCONNECTING WIRING
E4.4	INTERCONNECTING WIRING
E4.5	INTERCONNECTING WIRING
E4.6	LEVEL TRANSMITTER TERMINATION ENCLOSURE
E4.7	B-U FLOATS TERMINATION BOX
E4.8	RCP INTERFACE CONNECTIONS/PRESSURE TRANSDUCER PROTECTION MODULE
E4.9	PUMP VIBRATION SENSOR WIRING DIAGRAM
E4.10	PUMP 1 & 2 MOTOR INTERFACE PANEL DETAIL
E4.11	PUMP 3 & 4 MOTOR INTERFACE PANEL DETAIL
E5.0	INTEGRATOR PANEL LAYOUT
E5.1	INTEGRATOR PANEL DIODE MATRIX ASSEMBLY DETAILS
E5.2	INTEGRATOR PANEL POINT TO POINT WIRING CHART
E5.3	24 VOLT SCADA BATTERY CHARGER WIRING DIAGRAM
E6.0	TCP PANEL LAYOUT
E6.1	TCP PANEL MECHANICAL LAYOUT
E6.2	TCP POINT TO POINT WIRING CHART
E6.3	TCP POINT TO POINT WIRING CHART
E6.4	TCP POINT TO POINT WIRING CHART
E6.5	TCP POINT TO POINT WIRING CHART
E6.6	TCP ENCLOSURE
E6.7	TCP BATTERY MONITOR MODULE AND WIRING CHART
E6.8	FUEL LEVEL TRANSMITTER INTRINSIC SAFETY RELAY WIRING DETAILS
E6.9	TCP LABEL PLACEMENT
E7.0	PCBP - 4 PUMP CONTROL PANEL
E7.1	PCBP ENCLOSURE
E7.2	PCBP ENCLOSURE
E7.3	PCBP ENCLOSURE
E7.4	PCBP CONTROLLER PANEL LAYOUT
E7.5	PCBP CONTROLLER WIRING
E7.6	PCBP CONTROLLER WIRING
E8.0	IP, BATTERY MONITOR, AND TCP PARTS LIST
E8.1	PCBP CONTROLLER AND ENCLOSURE, TERM ENCLOSURE, AND ANCILLARY COMPONENTS PARTS LISTS
	MECHANICAL
M0.0	MECHANICAL NOTES AND SCHEDULES
M0.1	CONTROL BUILDING MECHANICAL PLAN

SURVEY CONTROL:

DESIGNATION – 3052
PID – AH6174
STATE/COUNTY – LA/TERREBONNE COUNTRY – US

N: 429,393.47
E: 3,446,197.32

PUMP STATION OPERATION PLAN

PUMP NUMBER	PUMP ON WATER ELEVATION	PUMP OFF WATER ELEVATION
LEAD PUMP 1	-0.5'	-2.0'
LAG PUMP 2	-0.4'	-1.5'
LAG PUMP 3	-0.1'	-0.7'
LAG PUMP 4	+0.2'	-0.4'

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REVISIONS

No.	Description	Date
1	ADDENDUM NO. 1	03/2023

STATE OF LOUISIANA
AGUSTIN LAREGA
License No. 42227
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
03-02-2023

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE
PHASE I: BAYOU CANE PUMP STATION

GENERAL NOTES

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	JD, AR
Drawn by	MJC
Checked by	KJG
Checked by	JD, AR
Plot Date	March 2, 2023

G02

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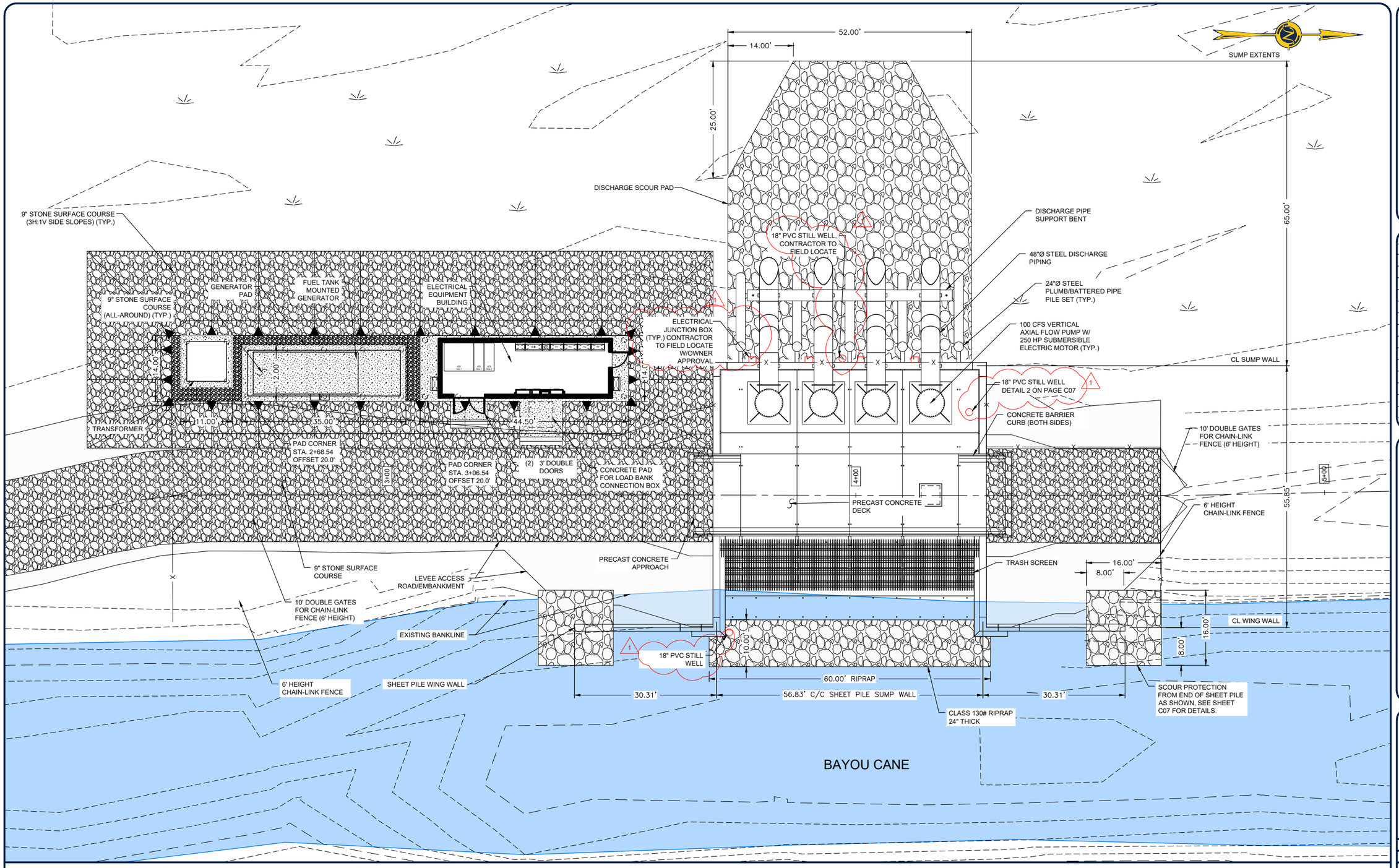

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTES:

1. STILL WELL DETAILS CAN BE FOUND ON PAGE C07 AND S24.
2. ELECTRICAL JUNCTION BOX DETAILS CAN BE FOUND ON PAGE S24.
3. CONTRACTOR TO FIELD VERIFY LOCATIONS WITH OWNER AND ENGINEER FOR STILL WELLS AND ELECTRICAL JUNCTION BOXES. CONTRACTOR SHALL HAVE OWNER APPROVAL PRIOR TO THE INSTALLATION OF THE ELECTRICAL JUNCTION BOXES.

ENLARGED SITE PLAN

20' 0' 20' 40' 60'

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

ENLARGED SITE PLAN

Project number	17-DRA-42
Date	JANUARY 2023
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Checked by	JD, AR
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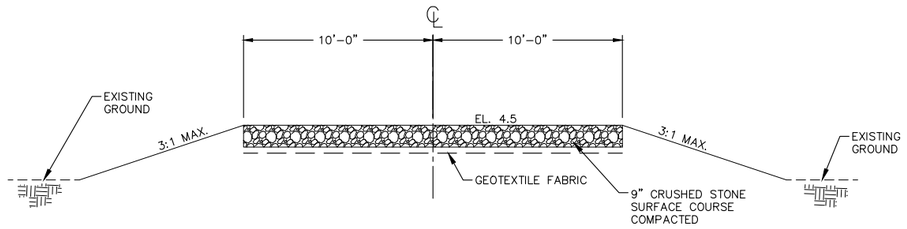
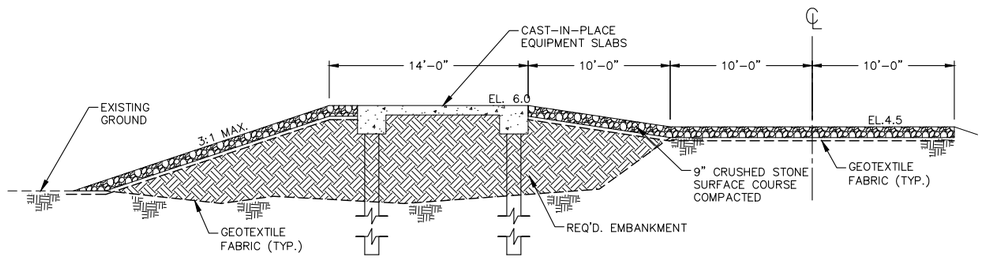
C05

m:\department 39\Client\Dpcg – terrebonne parish\1071-1072 bayou terrebonne drainage project\Drafting\CAD\DWGs\5 issued for bids\ENLARGED SITE PLAN.dwg



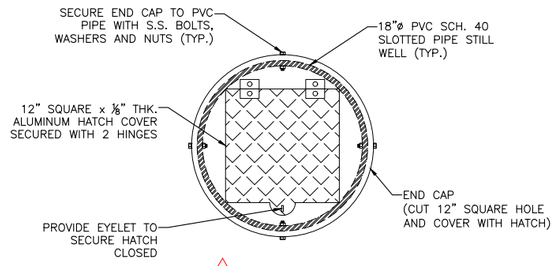
ACCESS ROAD TYPICAL SECTION

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



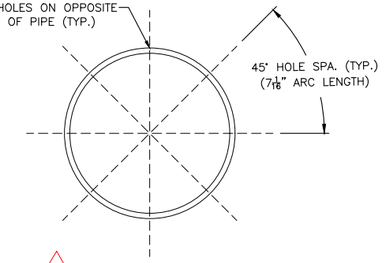
EQUIPMENT SLAB EMBANKMENT TYPICAL SECTION

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



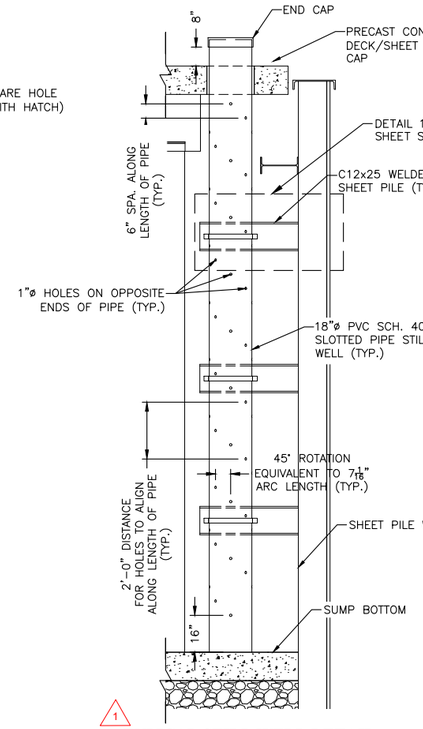
END CAP DETAIL

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



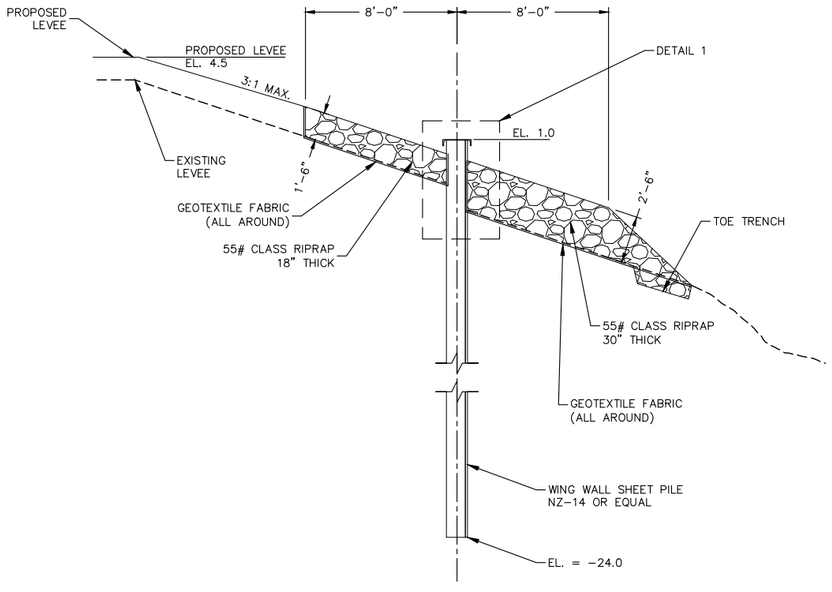
SLOTTED STILL WELL PLAN VIEW

SCALE: 3/8"=1'-0"



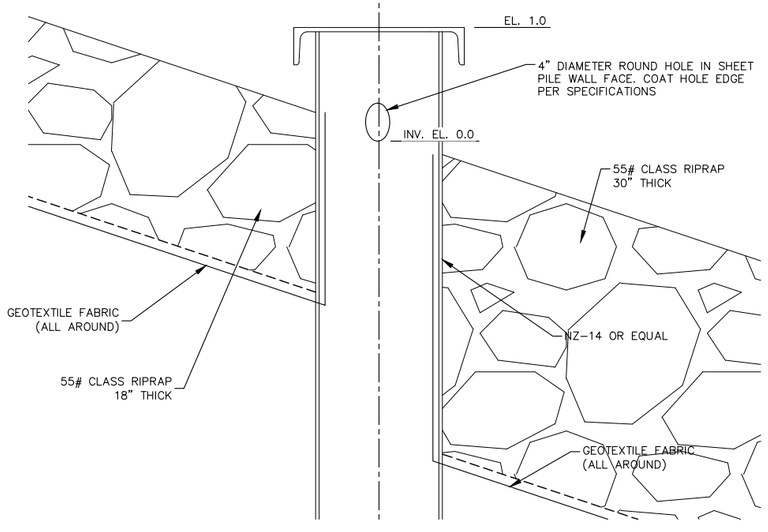
TYPICAL STILL WELL DETAIL

SCALE: 3/8"=1'-0"



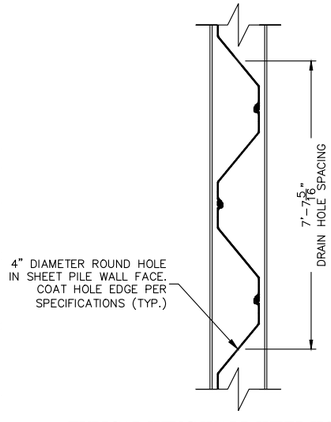
SCOUR PROTECTION - TYPICAL SECTION

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



DETAIL 1

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



TYPICAL WING WALL WEEP HOLE SPACING

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

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PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

TYPICAL SECTIONS & DETAILS

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	JD, AR
Drawn by	MJC
Checked by	KJG
Checked by	JD, AR
Plot Date	March 2, 2023

C07

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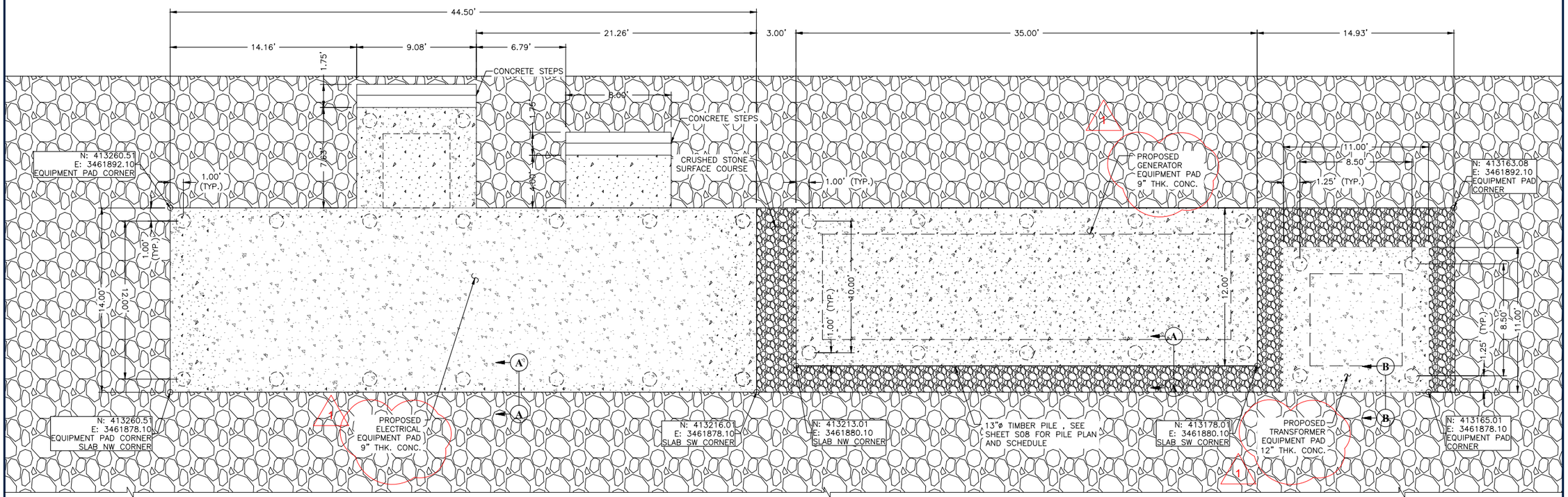
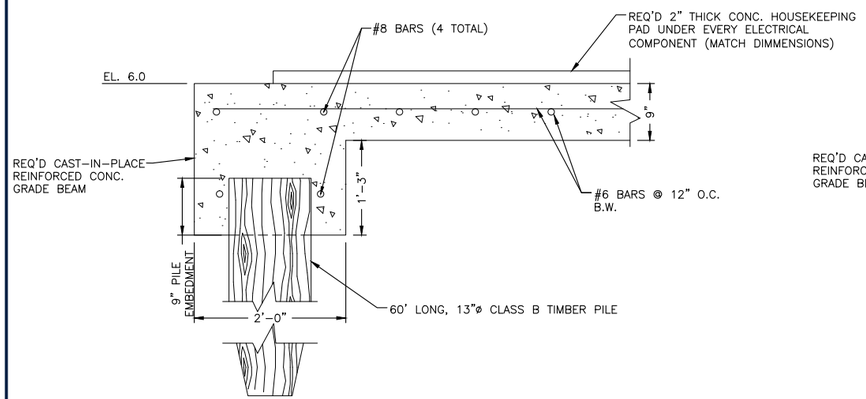


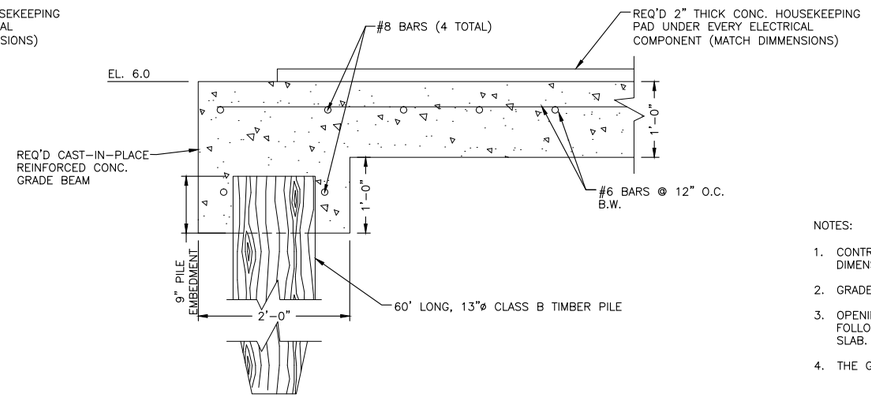
STRUCTURAL SITE PLAN - EQUIPMENT SLAB

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



A LONGITUDINAL SECTION - EQUIPMENT PAD

SCALE: 1" = 1'-0"



B LONGITUDINAL SECTION - TRANSFORMER PAD

SCALE: 1" = 1'-0"

NOTES:

1. CONTRACTOR SHALL POUR A 2" THICK HOUSEKEEPING PAD TO MATCH THE OUTER DIMENSIONS OF EACH ELECTRICAL COMPONENT.
2. GRADE BEAMS AND SLAB SHALL BE CAST-IN-PLACE AND POURED MONOLITHICALLY.
3. OPENINGS ON SLAB FOR ELECTRICAL CONDUITS NOT SHOWN. CONTRACTOR SHALL FOLLOW ELECTRICAL PLANS FOR CONDUIT SIZES AND LOCATION OF OPENINGS FOR SLAB.
4. THE GENERATOR AND THE GENERATOR SLAB ARE INCLUDED IN BID ALTERNATE NO. 2.

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STATE OF LOUISIANA
JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

STRUCTURAL SITE PLAN - EQUIPMENT SLAB

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S03

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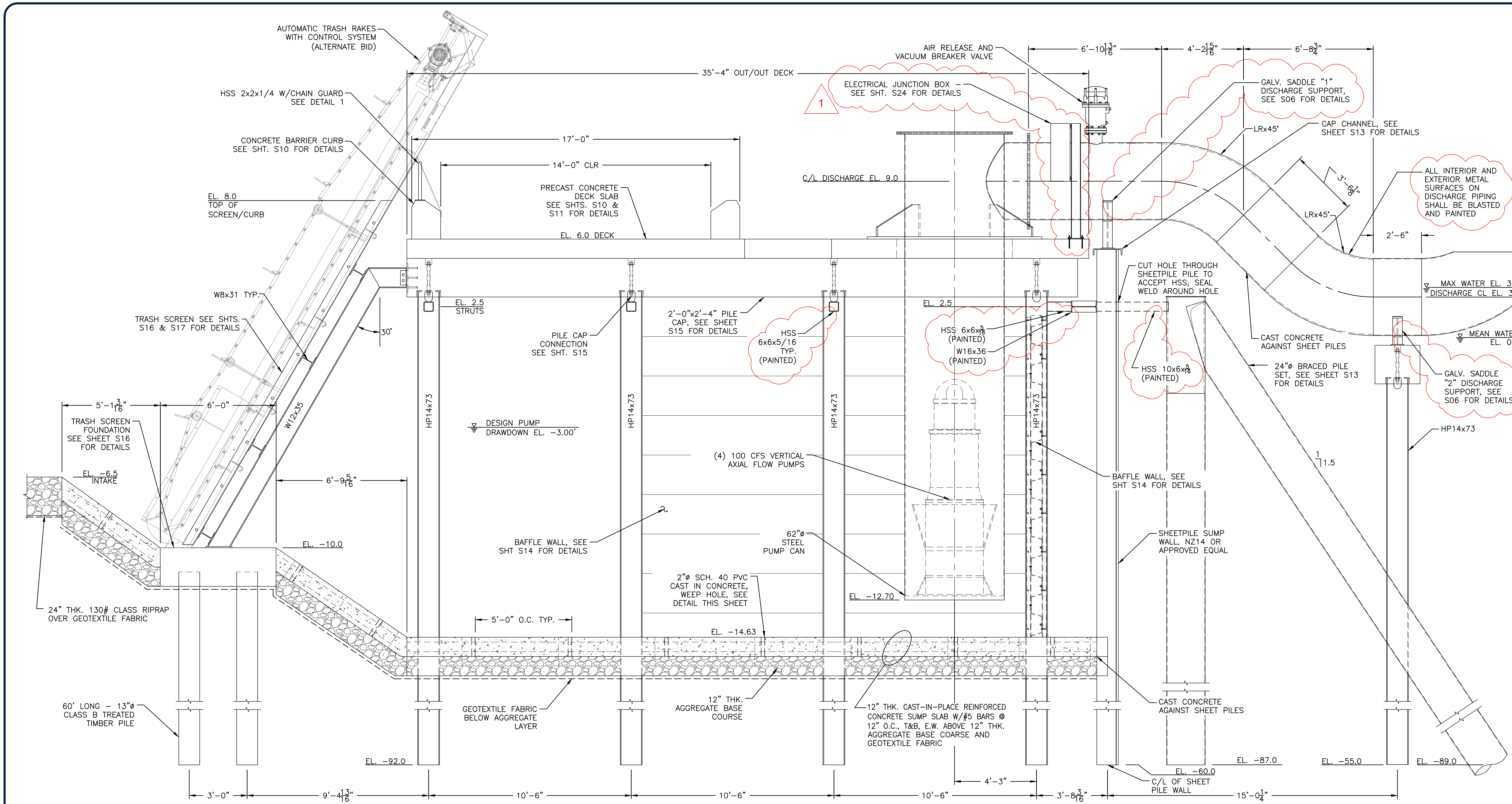
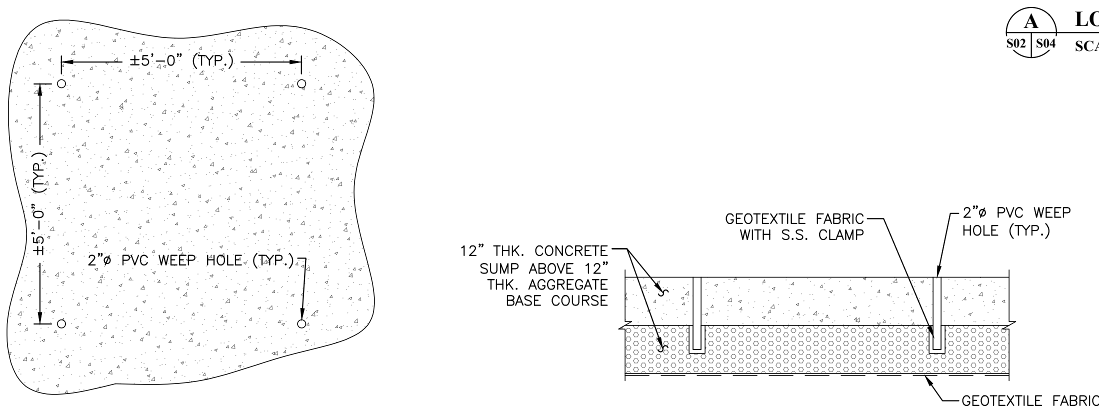
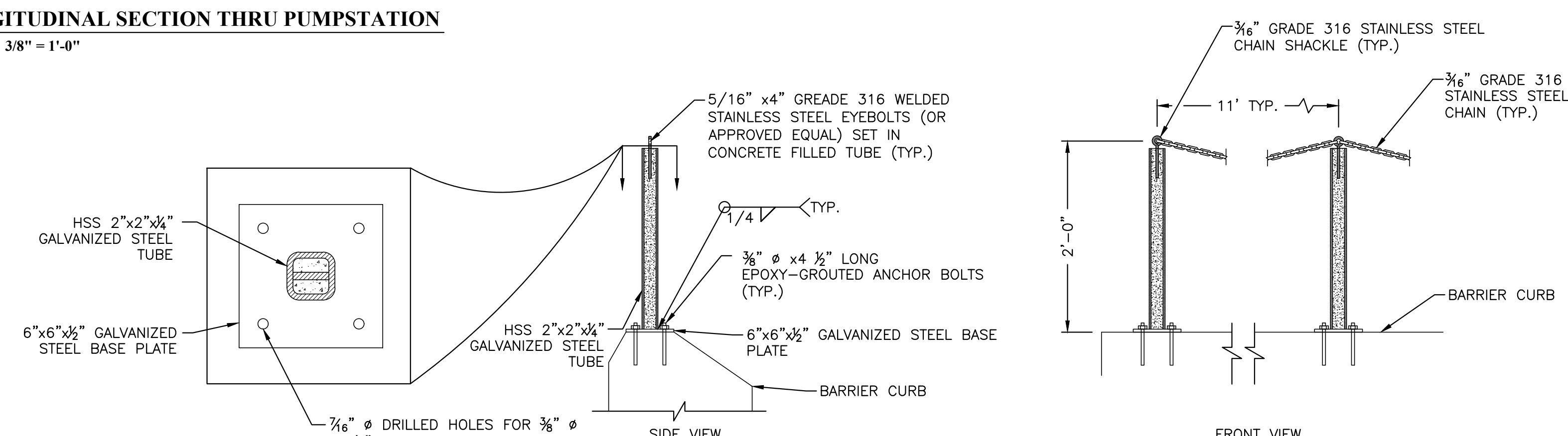


A S02 S04 LONGITUDINAL SECTION THRU PUMPSTATION
SCALE: 3/8" = 1'-0"



SUMP CONCRETE WEEP HOLE DETAIL
SCALE: 1/2"=1'-0"



1 CHAIN GUARD DETAIL
SCALE: 1"=1'-0"

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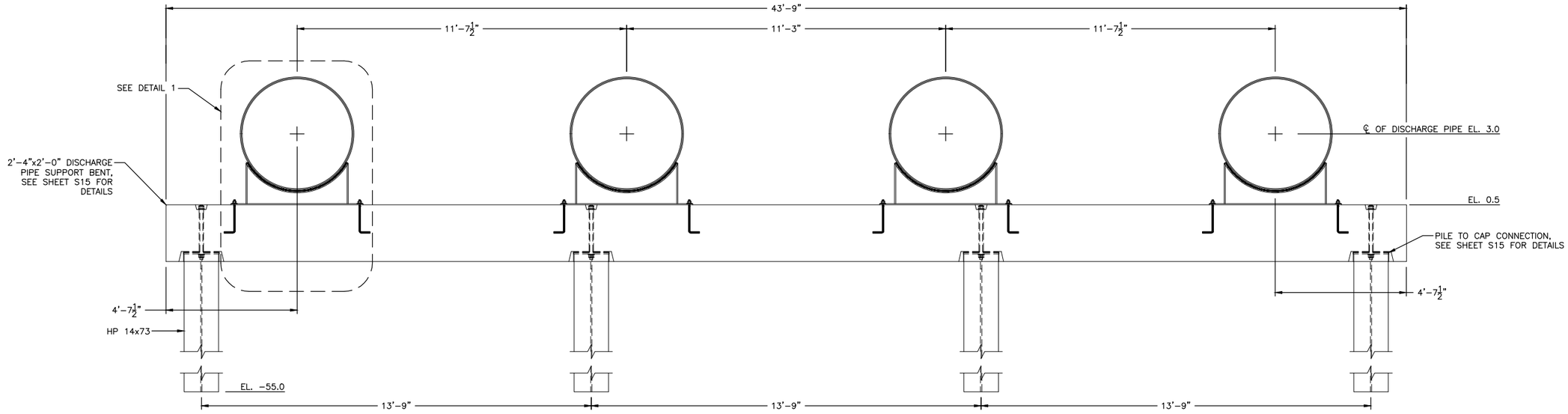
BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

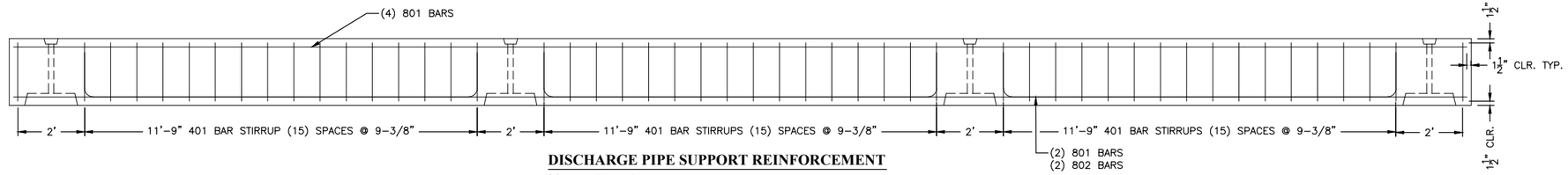
LONGITUDINAL SECTION THRU PUMP STATION

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S04

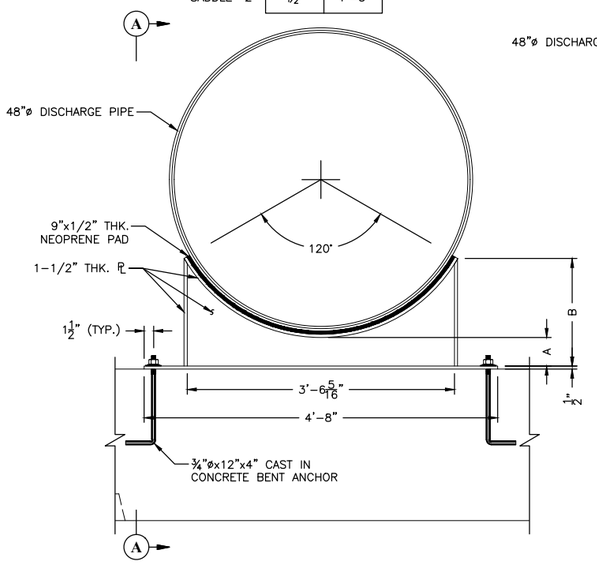


C SECTION (S02 | S06)
SCALE: 1/2" = 1'-0"

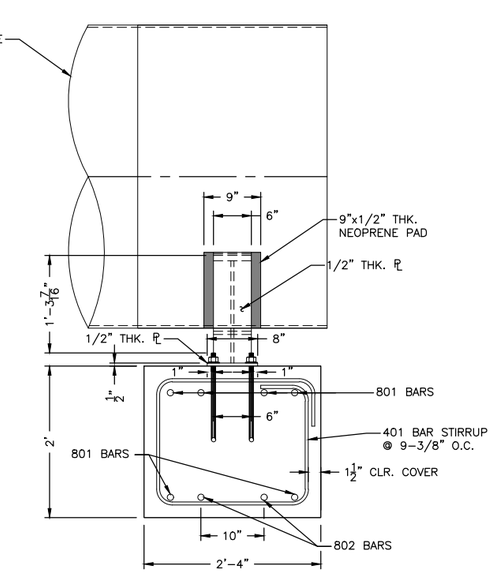


DISCHARGE PIPE SUPPORT REINFORCEMENT
SCALE: 1/2" = 1'-0"

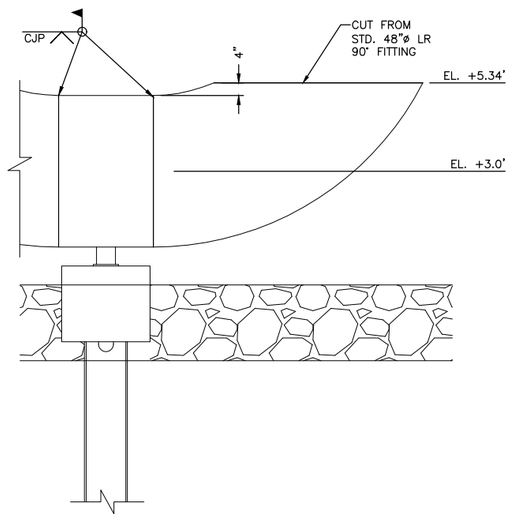
	A	B
SADDLE "1"	1'-4½"	2'-5"
SADDLE "2"	4½"	1'-5"



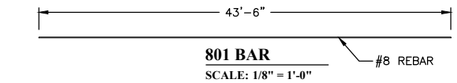
1 DETAIL - DISCHARGE PIPE SUPPORT
SCALE: 1" = 1'-0"



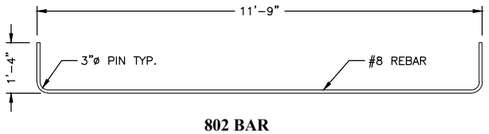
A SECTION - DISCHARGE PIPE SUPPORT
SCALE: 1" = 1'-0"



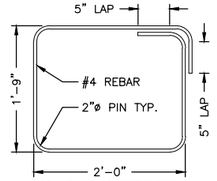
DISCHARGE SCOOP DETAIL
SCALE: 1/2" = 1'-0"



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



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



401 BAR STIRRUP
SCALE: 1" = 1'-0"

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

SECTIONS THRU PUMP STATION

Project number	17-DRA-42
Date	JANUARY 2023
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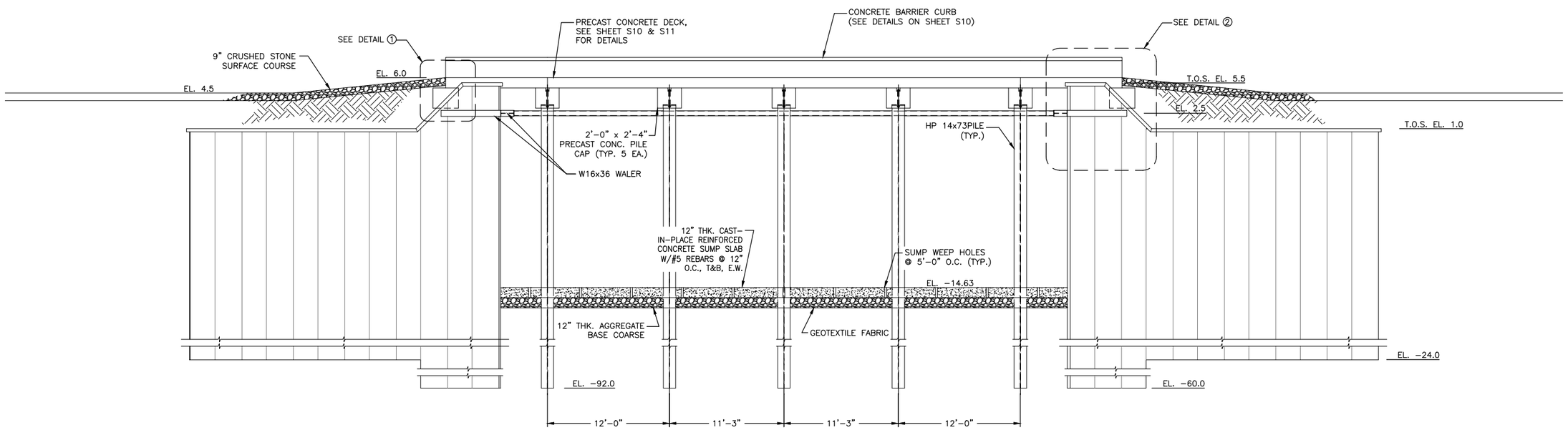
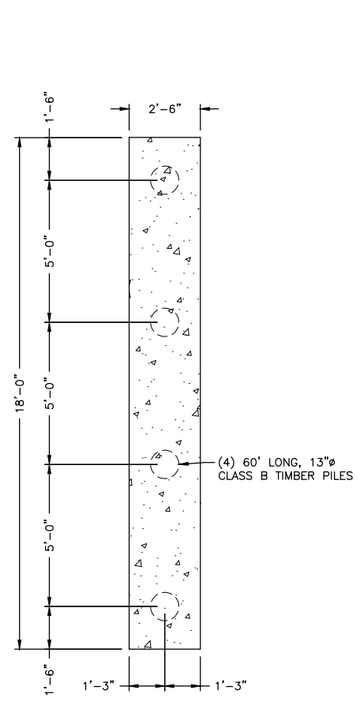
S06

M:\Department 39\Client\Docs - terrebonne parish\1071-1072 bayou terrebonne drainage project\Drafting\CAD\DWGs\S issued for bids\SECTIONS THRU PUMP STATION.dwg

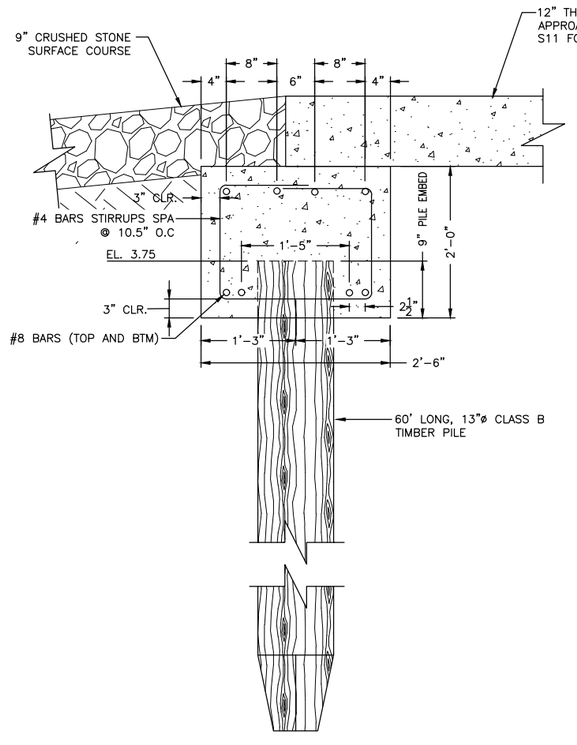


B SECTION
S02 | S05 SCALE: 3/16" = 1'-0"

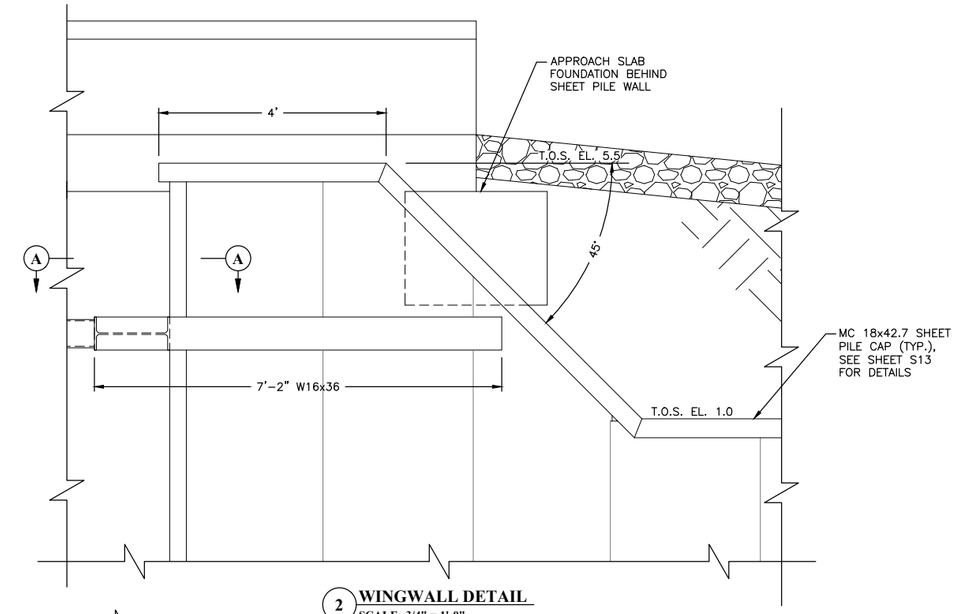
*NOTE: TRASH SCREEN FOUNDATION PILES OMITTED FOR CLARITY, SEE PILE SCHEDULE



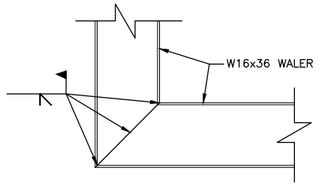
APPROACH SLAB FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



1 DETAIL - APPROACH SLAB FOUNDATION
SCALE: 3/8" = 1'-0"



2 WINGWALL DETAIL
SCALE: 3/4" = 1'-0"



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

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Houma, LA 70363
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REVISIONS

No.	Description	Date
1	ADDENDUM NO. 1	03/2023

STATE OF LOUISIANA
JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE
PHASE I: BAYOU CANE PUMP STATION

SECTIONS THRU PUMP STATION

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S05

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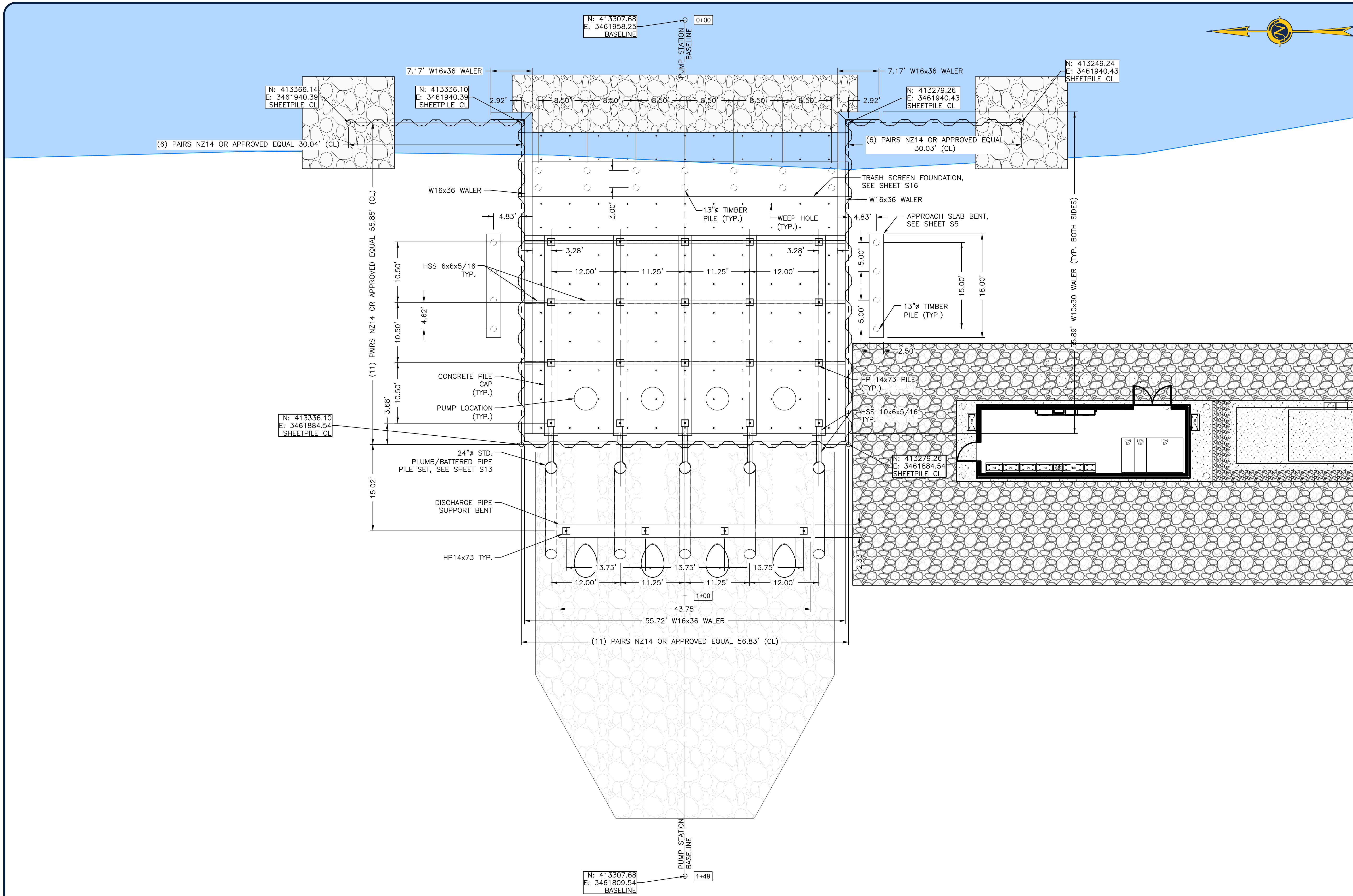

STRUCTURAL LAYOUT PLAN

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

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CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE
PHASE I: BAYOU CANE PUMP STATION

STRUCTURAL LAYOUT PLAN

Project number	17-DRA-42
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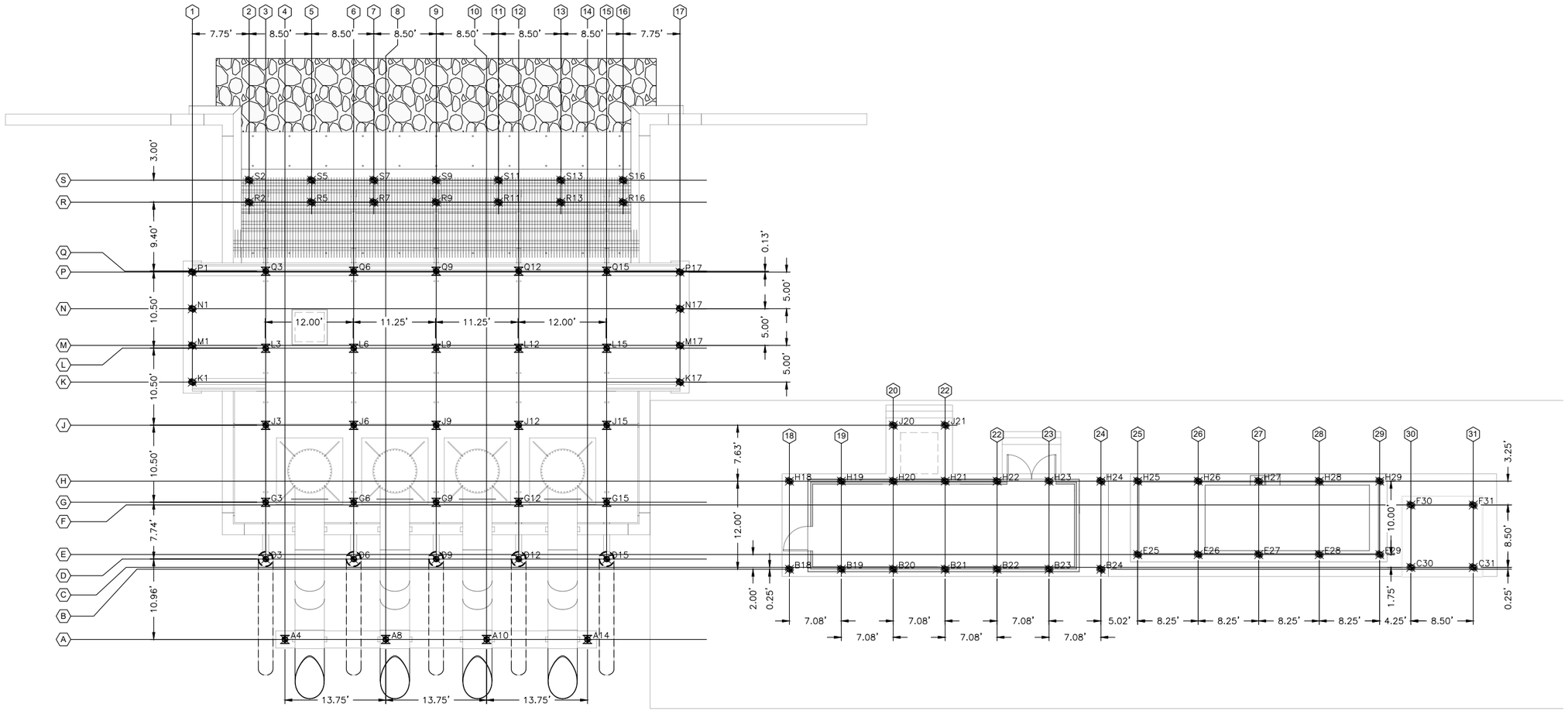
Plot Date	March 2, 2023

S07



PILE LAYOUT PLAN

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

LEGEND

- – HP14x73 STEEL PILE
- – TIMBER PILE
- – STEEL PIPE PILE

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REVISIONS

No.	Description	Date
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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

PILE LAYOUT PLAN AND SCHEDULE

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S08

m:\depotment 39\Client\proj - terrebonne parish\1071-1072 bayou terrebonne drainage project\Drafting\CAD\DWGs\S issued for bids\PILE LAYOUT PLAN AND SCHEDULE.dwg

PILE SCHEDULE

GRID LINE	Northing	Easting	PILE TYPE	WALL THICKNESS	TIP EL.	CUTOFF EL.	PILE LENGTH (FT.)	INSTALL
A4	413328.3034	3461869.5206	HP14x73		−55.0	−1.23	53.77	PLUMB
A8	413314.5534	3461869.5206	HP14x73		−55.0	−1.23	53.77	PLUMB
A10	413300.8034	3461869.5206	HP14x73		−55.0	−1.23	53.77	PLUMB
A14	413287.0534	3461869.5206	HP14x73		−55.0	−1.23	53.77	PLUMB
B18	413259.5117	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B19	413252.4317	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B20	413245.3517	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B21	413238.2717	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B22	413231.1917	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B23	413224.1117	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
B24	413217.0317	3461879.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
C30	413174.7617	3461879.3468	13"ø TIMBER		−55.25	4.75	60	PLUMB
C31	413166.2617	3461879.3468	13"ø TIMBER		−55.25	4.75	60	PLUMB
D3	413330.9284	3461880.4820	24" STEEL	0.375"	−87.00	3.00	90	PLUMB
D6	413318.9284	3461880.4820	24" STEEL	0.375"	−87.00	3.00	90	PLUMB
D9	413307.6784	3461880.4820	24" STEEL	0.375"	−87.00	3.00	90	PLUMB
D12	413296.4284	3461880.4820	24" STEEL	0.375"	−87.00	3.00	90	PLUMB
D15	413284.4284	3461880.4820	24" STEEL	0.375"	−87.00	3.00	90	PLUMB
E25	413212.0118	3461881.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
E26	413203.7618	3461881.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
E27	413195.5118	3461881.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB

PILE SCHEDULE

GRID LINE	Northing	Easting	PILE TYPE	WALL THICKNESS	TIP EL.	CUTOFF EL.	PILE LENGTH (FT.)	INSTALL
E28	413187.2618	3461881.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
E29	413179.0118	3461881.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
F30	413174.7617	3461887.8468	13"ø TIMBER		−55.25	4.75	60	PLUMB
F31	413166.2617	3461887.8468	13"ø TIMBER		−55.25	4.75	60	PLUMB
G3	413330.9284	3461888.2218	HP14x73		−92.0	3.27	95.27	PLUMB
G6	413318.9284	3461888.2218	HP14x73		−92.0	3.27	95.27	PLUMB
G9	413307.6784	3461888.2218	HP14x73		−92.0	3.27	95.27	PLUMB
G12	413296.4284	3461888.2218	HP14x73		−92.0	3.27	95.27	PLUMB
G15	413284.4284	3461888.2218	HP14x73		−92.0	3.27	95.27	PLUMB
H18	413259.5117	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H19	413252.4317	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H20	413245.3517	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H21	413238.2717	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H22	413231.1917	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H23	413224.1117	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H24	413217.0317	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H25	413212.0118	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H26	413203.7618	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H27	413195.5118	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H28	413187.2618	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB
H29	413179.0118	3461891.0968	13"ø TIMBER		−55.25	4.75	60	PLUMB

PILE SCHEDULE

GRID LINE	Northing	Easting	PILE TYPE	WALL THICKNESS	TIP EL.	CUTOFF EL.	PILE LENGTH (FT.)	INSTALL
J3	413330.9284	3461898.7218	HP14x73		−92.0	3.27	95.27	PLUMB
J6	413318.9284	3461898.7218	HP14x73		−92.0	3.27	95.27	PLUMB
J9	413307.6784	3461898.7218	HP14x73		−92.0	3.27	95.27	PLUMB
J12	413296.4284	3461898.7218	HP14x73		−92.0	3.27	95.27	PLUMB
J15	413284.4284	3461898.7218	HP14x73		−92.0	3.27	95.27	PLUMB
J20	413245.3467	3461898.7218	13"ø TIMBER		−55.25	4.75	60	PLUMB
J21	413238.2717	3461898.7268	13"ø TIMBER		−55.25	4.75	60	PLUMB
K1	413340.9284	3461904.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
K17	413274.4284	3461904.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
L3	413330.9284	3461909.2218	HP14x73		−92.0	3.27	95.27	PLUMB
L6	413318.9284	3461909.2218	HP14x73		−92.0	3.27	95.27	PLUMB
L9	413307.6784	3461909.2218	HP14x73		−92.0	3.27	95.27	PLUMB
L12	413296.4284	3461909.2218	HP14x73		−92.0	3.27	95.27	PLUMB
L15	413284.4284	3461909.2218	HP14x73		−92.0	3.27	95.27	PLUMB
M1	413340.9284	3461909.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
M17	413274.4284	3461909.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
N1	413340.9284	3461914.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
N17	413274.4284	3461914.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
P1	413340.9284	3461919.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
P17	413274.4284	3461919.5968	13"ø TIMBER		−56.25	3.75	60	PLUMB
Q3	413330.9284	3461919.7218	HP14x73		−92.0	3.27	95.27	PLUMB

PILE SCHEDULE

GRID LINE	Northing	Easting	PILE TYPE	WALL THICKNESS	TIP EL.	CUTOFF EL.	PILE LENGTH (FT.)	INSTALL
Q6	413318.9284	3461919.7218	HP14x73		−92.0	3.27	95.27	PLUMB
Q9	413307.6784	3461919.7218	HP14x73		−92.0	3.27	95.27	PLUMB
Q12	413296.4284	3461919.7218	HP14x73		−92.0	3.27	95.27	PLUMB
Q15	413284.4284	3461919.7218	HP14x73		−92.0	3.27	95.27	PLUMB
R2	413333.1784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R5	413324.6784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R7	413316.1784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R9	413307.6784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R11	413299.1784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R13	413290.6784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
R16	413282.1784	3461929.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S2	413333.1784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S5	413324.6784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S7	413316.1784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S9	413307.6784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S11	413299.1784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S13	413290.6784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
S16	413282.1784	3461932.1252	13"ø TIMBER		−71.25	−11.25	60	PLUMB
D3	413330.9284	3461880.482	24"ø STEEL	0.375"	−89	2.5'	109.97	BATTERED 1.5V:1H
D6	413318.9284	3461880.482	24"ø STEEL	0.375"	−89	2.5'	109.97	BATTERED 1.5V:1H
D9	413307.6784	3461880.482	24"ø STEEL	0.375"	−89	2.5'	109.97	BATTERED 1.5V:1H
D12	413296.4280	3461880.482	24"ø STEEL	0.375"	−89	2.5'	109.97	BATTERED 1.5V:1H
D15	413284.4284	3461880.482	24"ø STEEL	0.375"	−89	2.5'	109.97	BATTERED 1.5V:1H

PILE SCHEDULE

*NOTE: 24"ø PLUMB PILE W.T. VARIES, SEE SHEET S13. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR VARYING W.T.

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

PILE LAYOUT PLAN AND SCHEDULE

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S09

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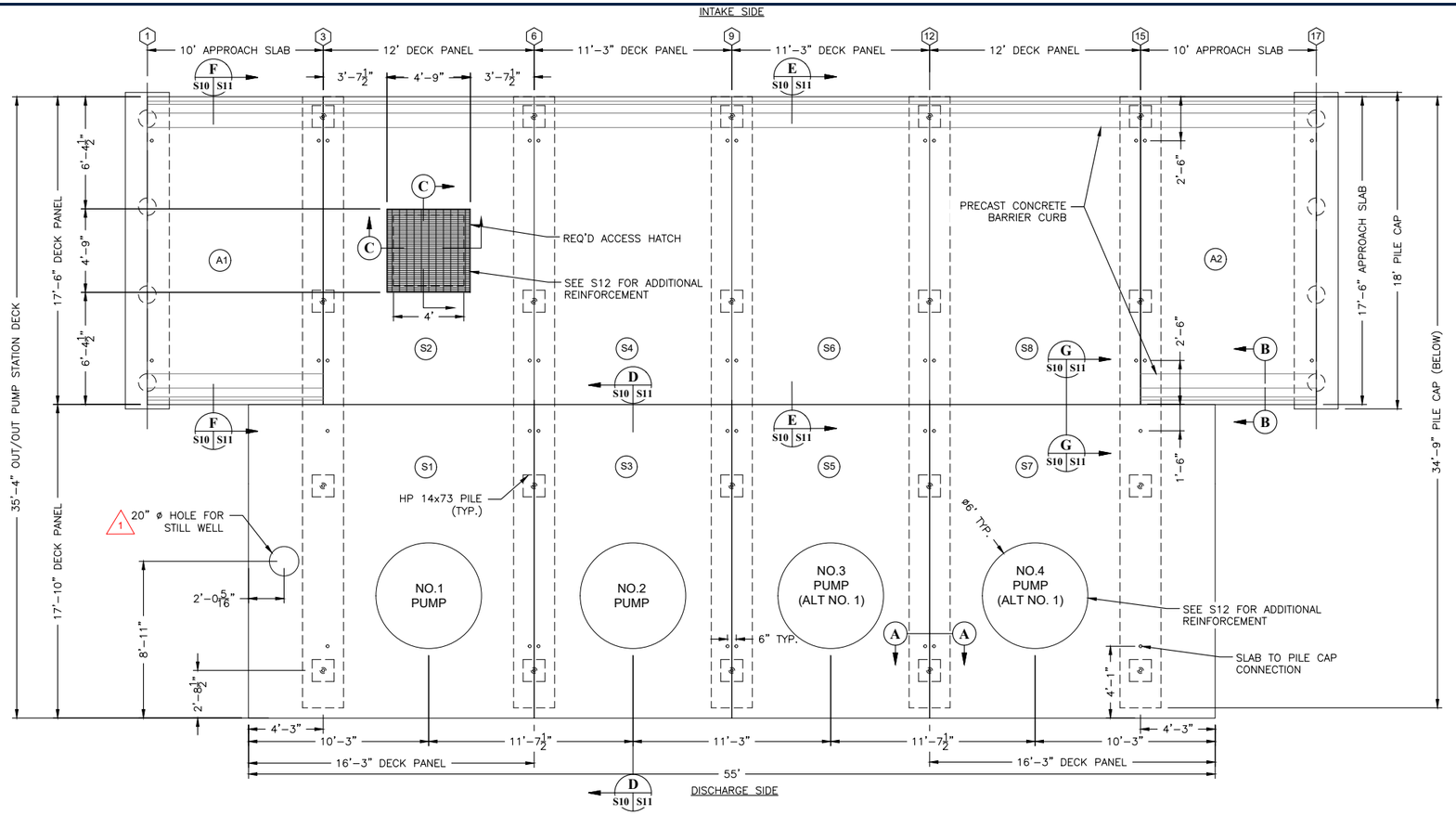
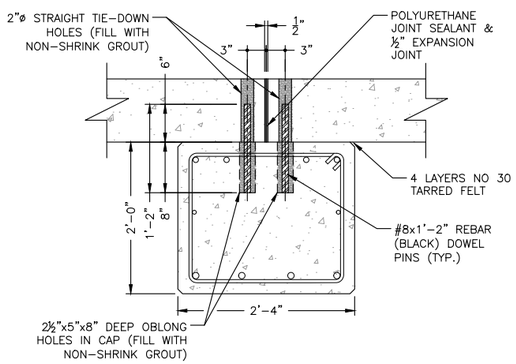


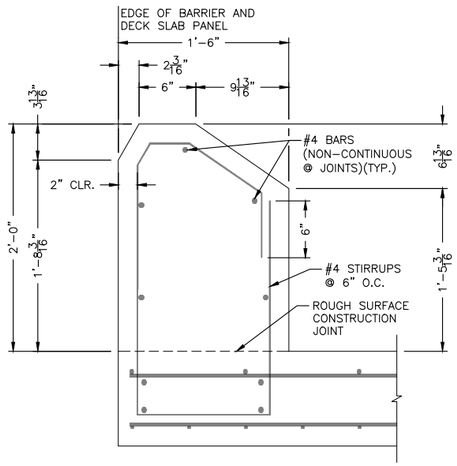
PRECAST CONCRETE PANEL DECK PLAN

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



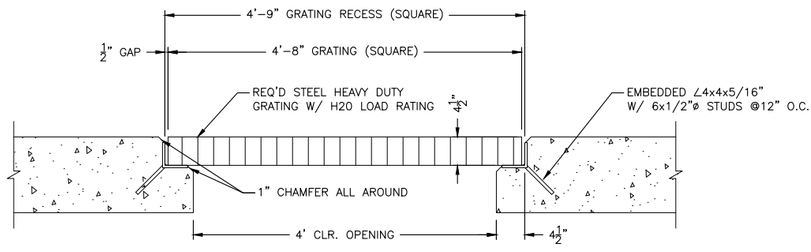
A SECTION - SLAB TO PILE CAP CONNECTION

SCALE: 1" = 1'-0"



B SECTION - CONCRETE END BARRIER

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



C SECTION - ACCESS HATCH

SCALE: 1" = 1'-0"

NOTES:

1. TRANSVERSE TIE-RODS SHALL BE LOCATED AS PER THE MANUFACTURER'S RECOMMENDATIONS. TIE-ROD HOLES SHALL BE RECESSED ON END PANELS. TIE-RODS SHALL NOT PROTRUDE PAST THE FACE OF END PANELS.

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

PRECAST CONCRETE PANEL DECK PLAN

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S10

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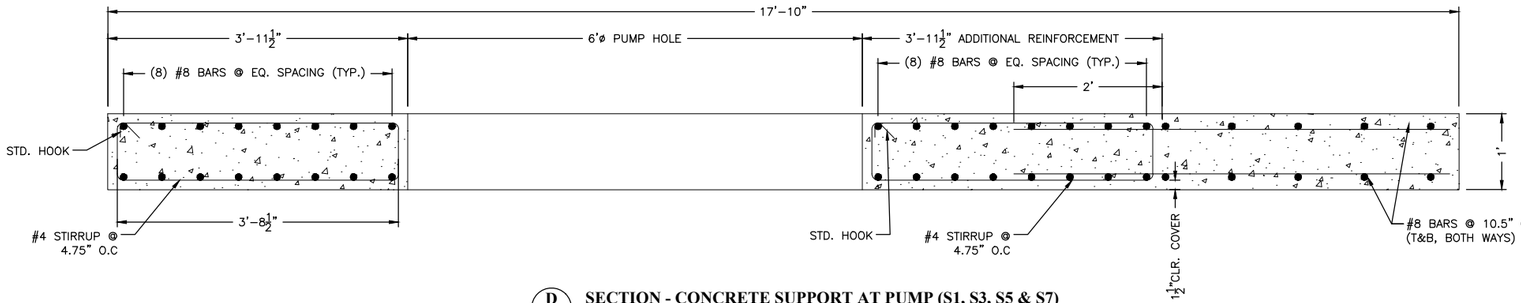
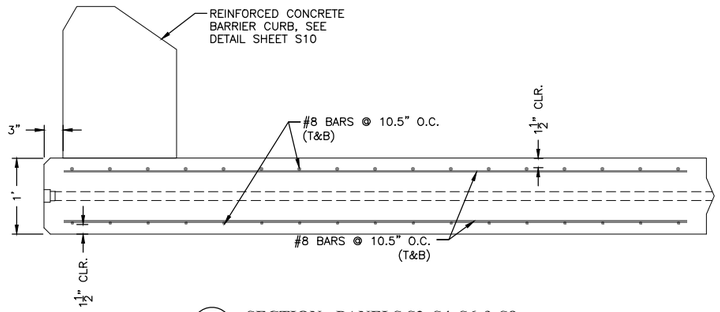
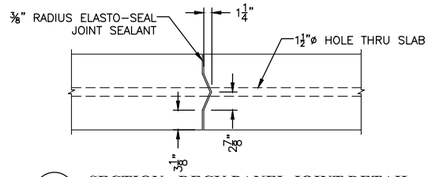


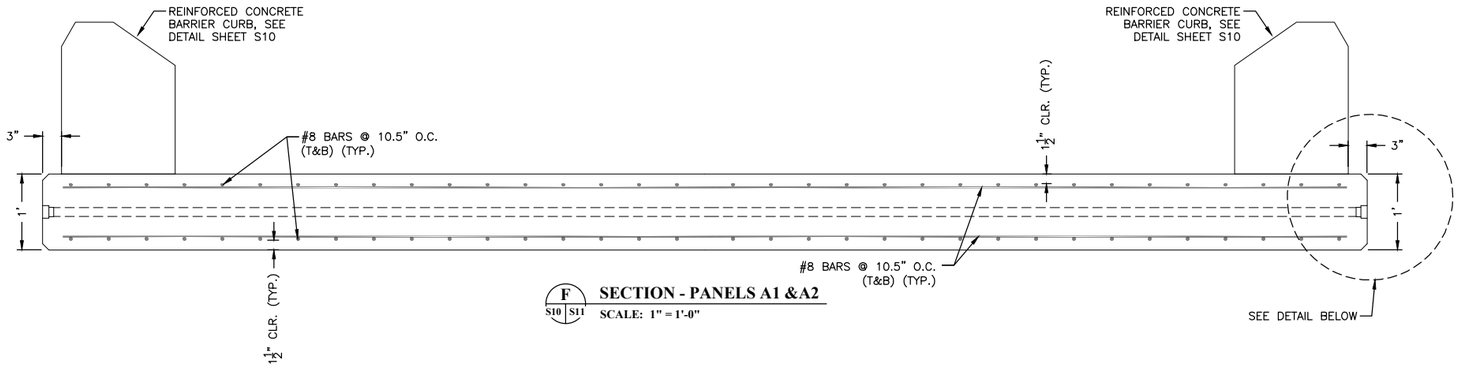
D S10 | S11 **SECTION - CONCRETE SUPPORT AT PUMP (S1, S3, S5 & S7)**
SCALE: 1" = 1'-0"



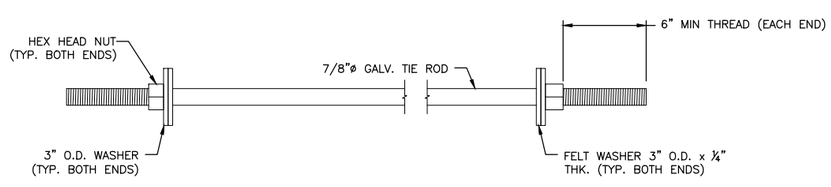
E S10 | S11 **SECTION - PANELS S2, S4, S6 & S8**
SCALE: 1" = 1'-0"



G S10 | S11 **SECTION - DECK PANEL JOINT DETAIL**
SCALE: 1" = 1'-0"

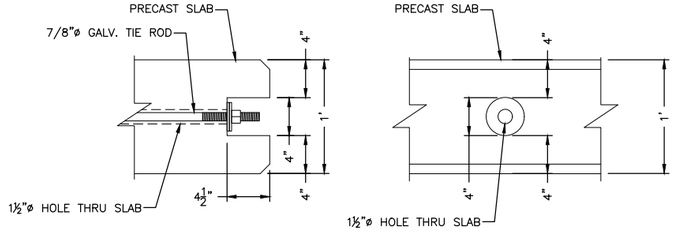


F S10 | S11 **SECTION - PANELS A1 &A2**
SCALE: 1" = 1'-0"



TYPICAL TIE ROD DETAIL
SCALE: 3" = 1'-0"

NOTE: TIE ROD LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL TORQUE INSTALLED TIE RODS TO 170 FT/LBS PRIOR TO PAINTING TIE ROD ENDS.



RECESSED TIE ROD DETAIL
SCALE: 3" = 1'-0"

NOTES:

1. CONSTRUCTION SPECIFICATIONS: LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES" 2016 EDITION, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" LATEST EDITION.
3. DESIGN CRITERIA: HS 20 LOADING
4. PRECAST CONCRETE SHALL CONFORM TO DOTD CLASS "P1" HAVING AN UNCONFINED COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS.
5. DEFORMED REINFORCING STEEL SHALL BE GRADE 60 CONFORMING TO DOTD SECTION 806.
6. ALL HARDWARE, INCLUDING TIE-RODS, BOLTS, NUTS, WASHERS, AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED.
7. PRECAST CONCRETE DECK AND CAPS SHALL BE WASKEY OR APPROVED EQUAL.
8. PROVIDE HOLES THROUGH BUILDING DECK TO ACCOMMODATE MECHANICAL AND ELECTRICAL PIPING. COORDINATE WITH EQUIPMENT REQUIREMENTS.

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STATE OF LOUISIANA
JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

PRECAST CONCRETE PANEL DECK DETAILS

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S11

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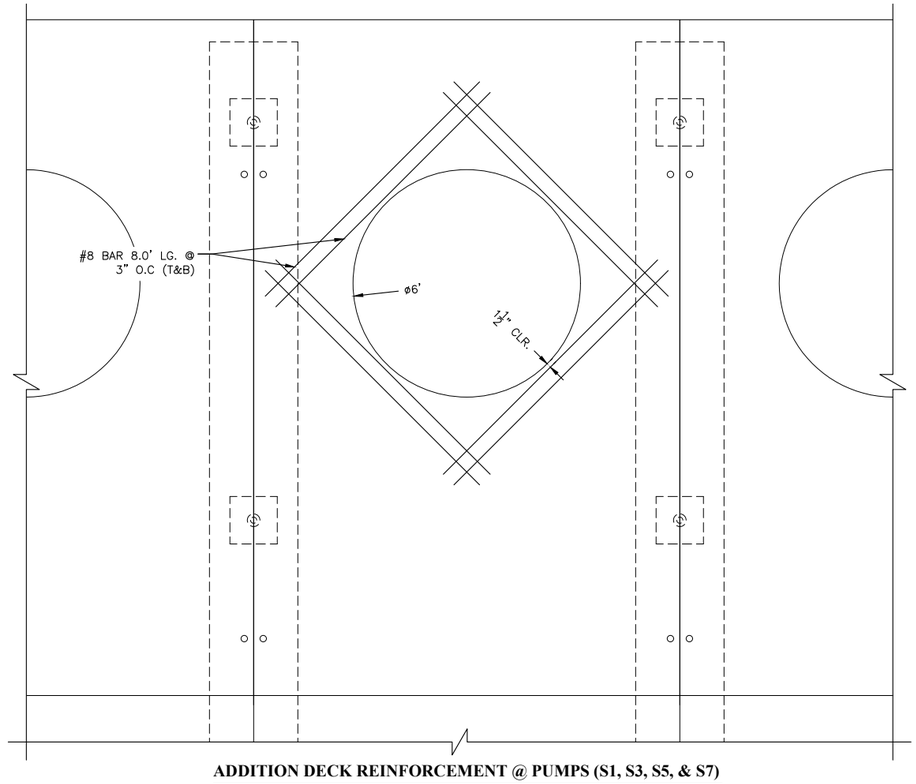
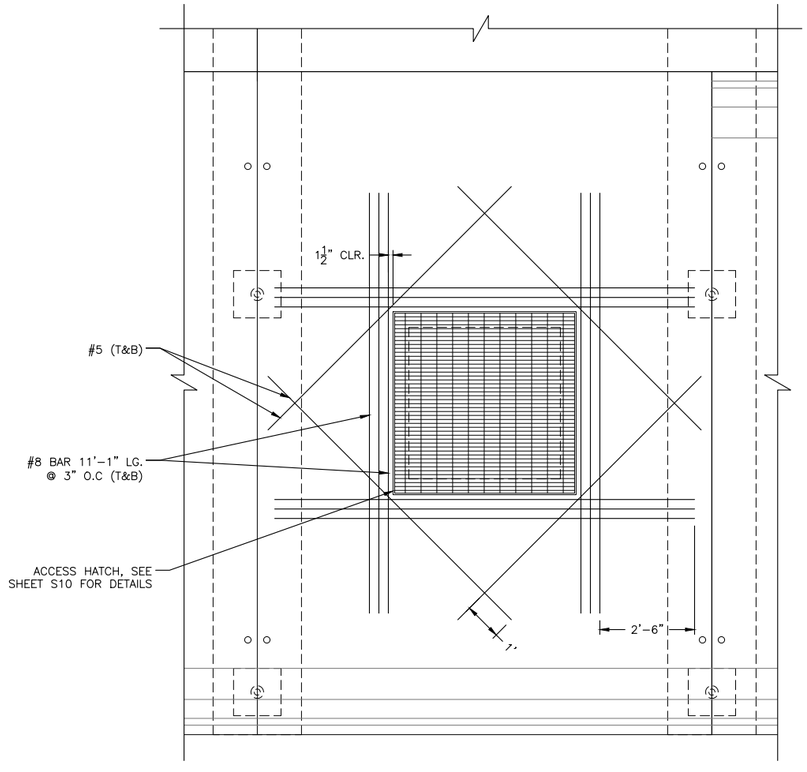


ADDITION DECK REINFORCEMENT @ PUMPS (S1, S3, S5, & S7)

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



ADDITION DECK REINFORCEMENT @ ACCESS HATCH (S2)

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

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CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE
PHASE I: BAYOU CANE PUMP STATION

PRECAST CONCRETE PANEL ADDTL REINFORCEMENT

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S12

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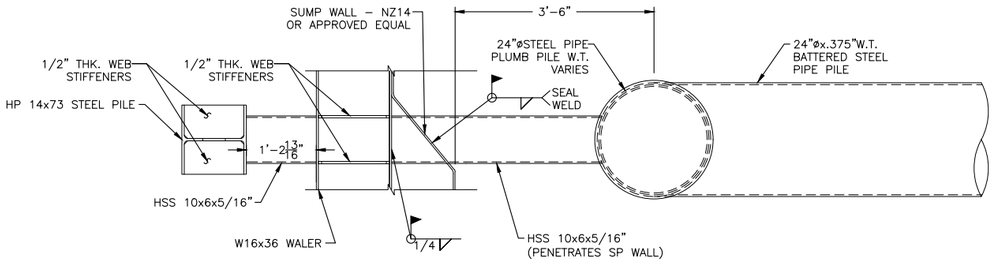
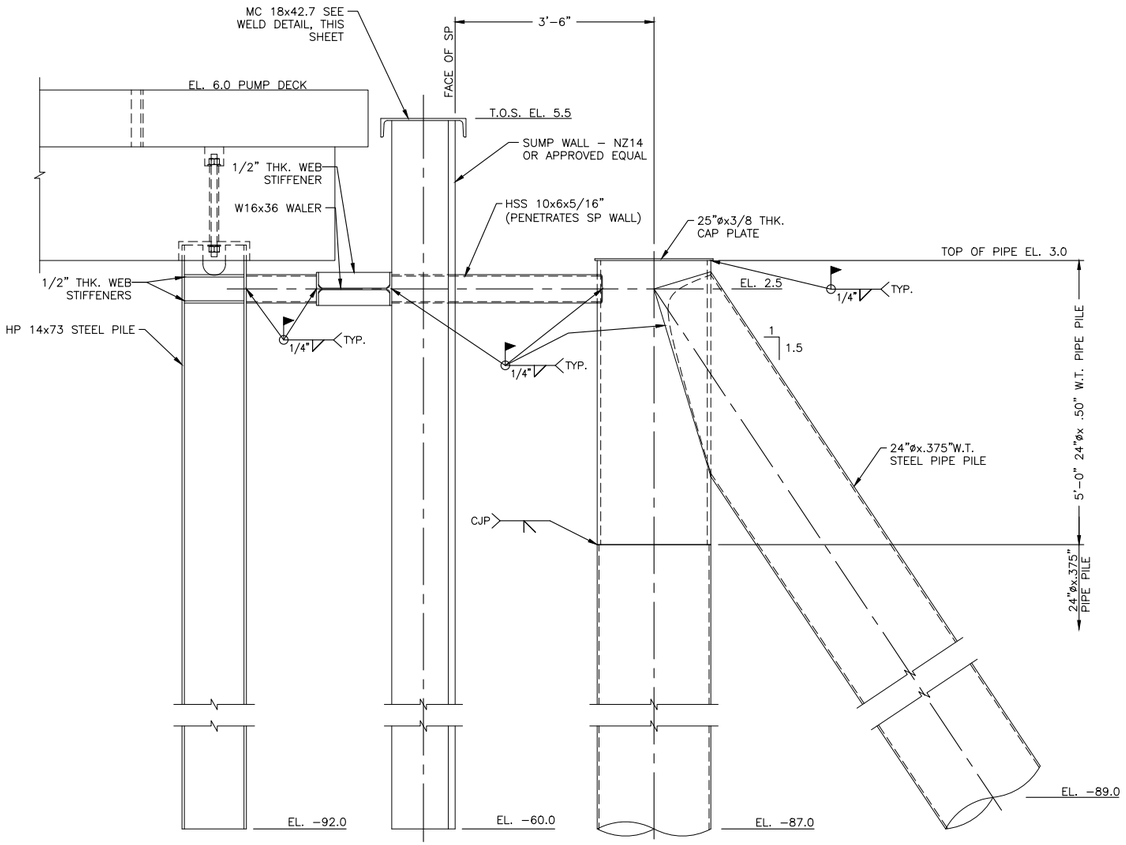


BRACED PILE SET PLAN

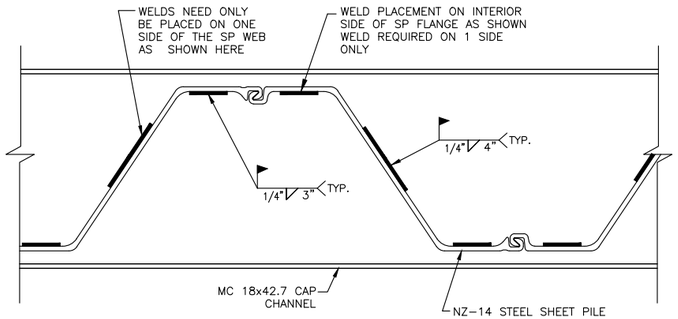
SCALE: 3/4" = 1'-0"

* MC18 PILE CAP OMITTED FOR CLARITY



D S02 | S13 **BRACED PILE SET ELEVATION**

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



CAP CHANNEL WELDING DETAIL

SCALE: N.T.S.

NOTE: VIEW IS LOOKING AT CAP CHANNEL FROM BENEATH

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BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

SHEET PILE BULKHEAD DETAILS

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S13

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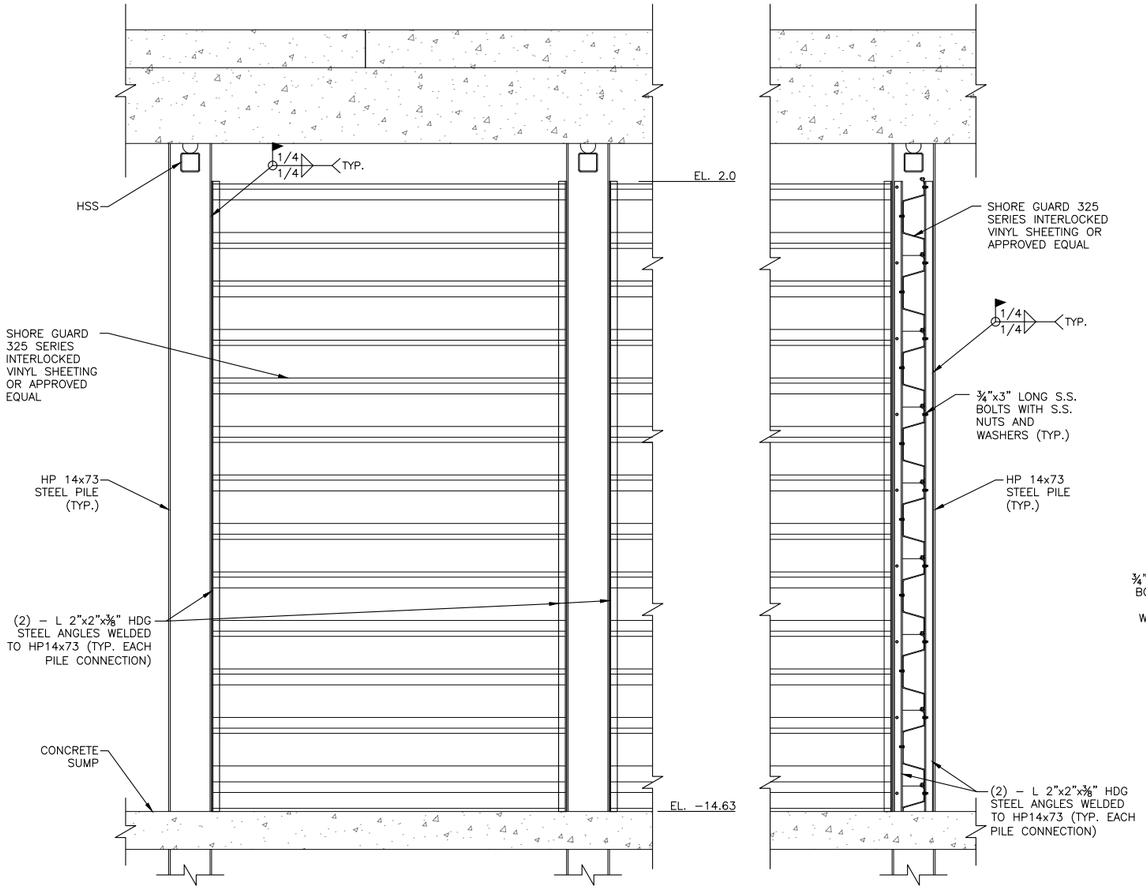
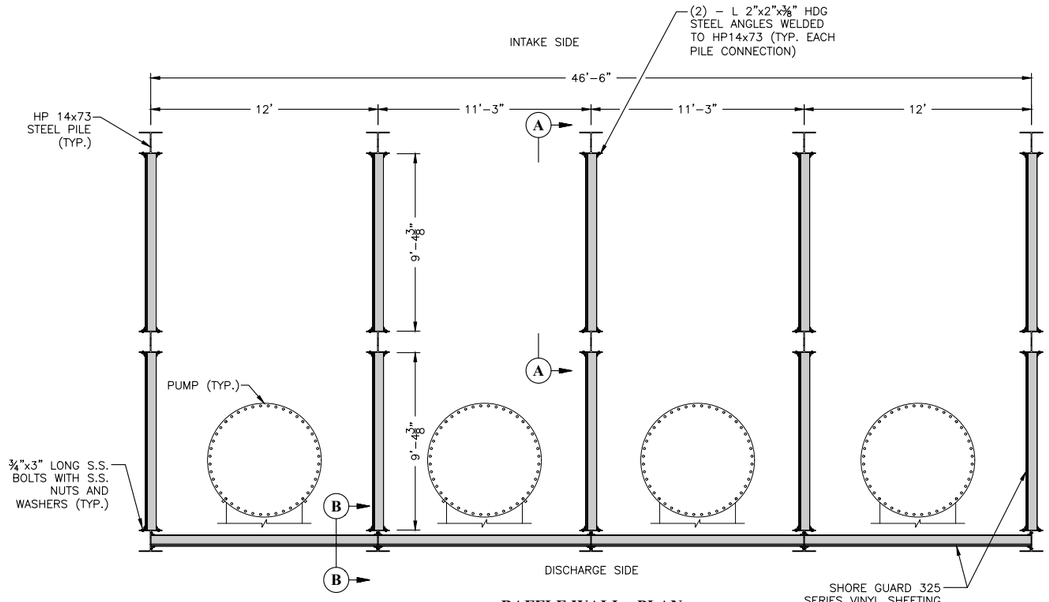


A SECTION - TYPICAL BAFFLE WALL
SCALE: 1/2" = 1'-0"

B SECTION - TYPICAL BAFFLE WALL
SCALE: 1/2" = 1'-0"



BAFFLE WALL - PLAN
SCALE: 3/16" = 1'-0"
*HSS STRUT OMITTED FOR CLARITY

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BAFFLE WALL DETAILS

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S14

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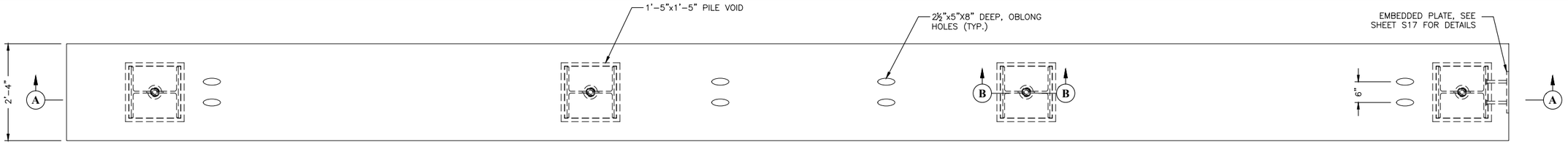
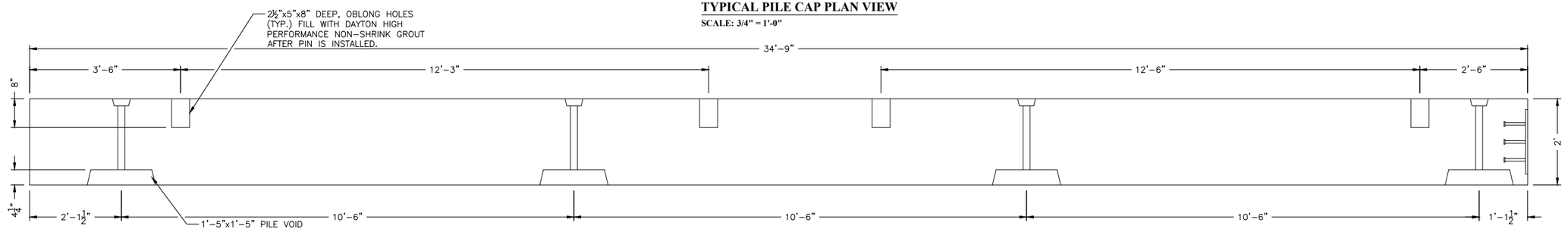
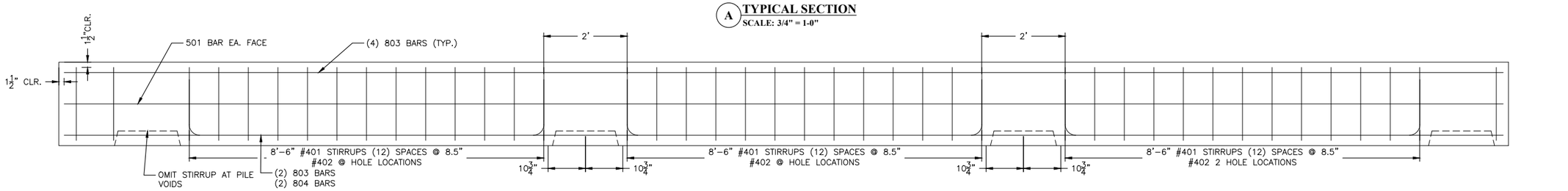


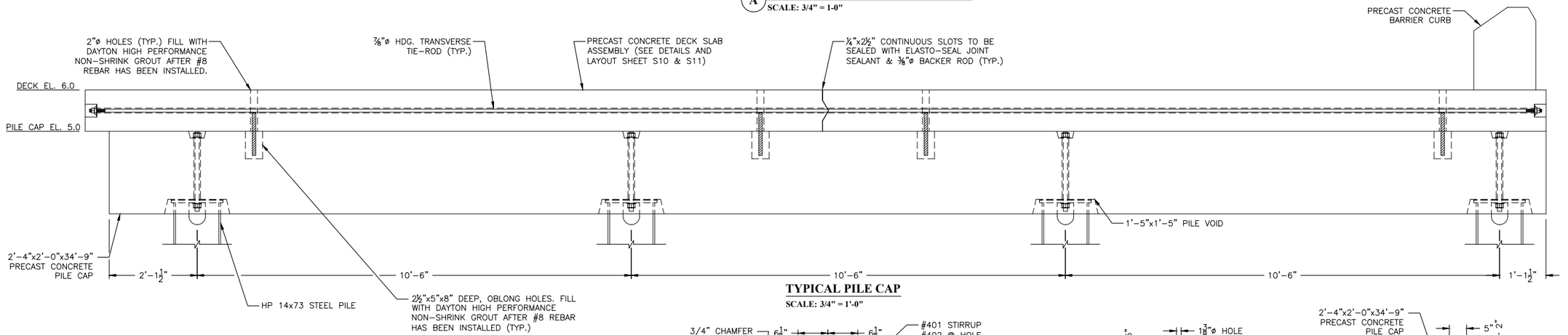
TYPICAL PILE CAP PLAN VIEW
SCALE: 3/4" = 1'-0"



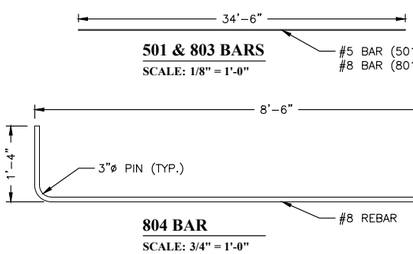
A TYPICAL SECTION
SCALE: 3/4" = 1-0"



A TYPICAL REINFORCING SECTION
SCALE: 3/4" = 1-0"

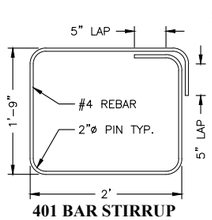


TYPICAL PILE CAP
SCALE: 3/4" = 1'-0"

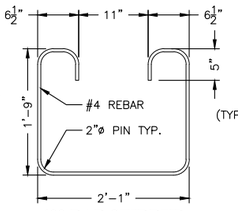


501 & 803 BARS
SCALE: 1/8" = 1'-0"

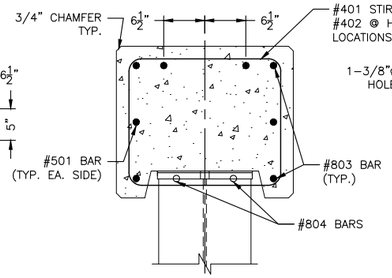
804 BAR
SCALE: 3/4" = 1'-0"



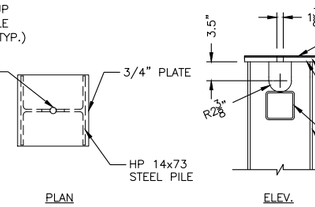
401 BAR STIRRUP
SCALE: 1" = 1'-0"

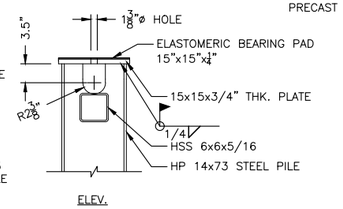


402 BAR STIRRUP
SCALE: 1" = 1'-0"

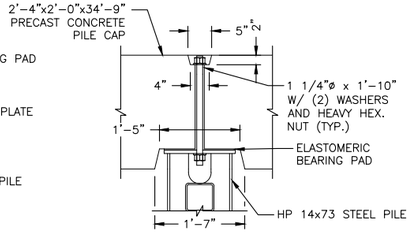


TYPICAL PILE CAP SECTION
SCALE: 1" = 1'-0"





PILE CONNECTION ASSEMBLY
SCALE: 3/4" = 1'-0"



B TYPICAL PILE TO PILE CAP SECTION
SCALE: 1-1/2" = 1-0"

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BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

PRECAST CONCRETE PILE CAP AND DECK DETAILS

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S15

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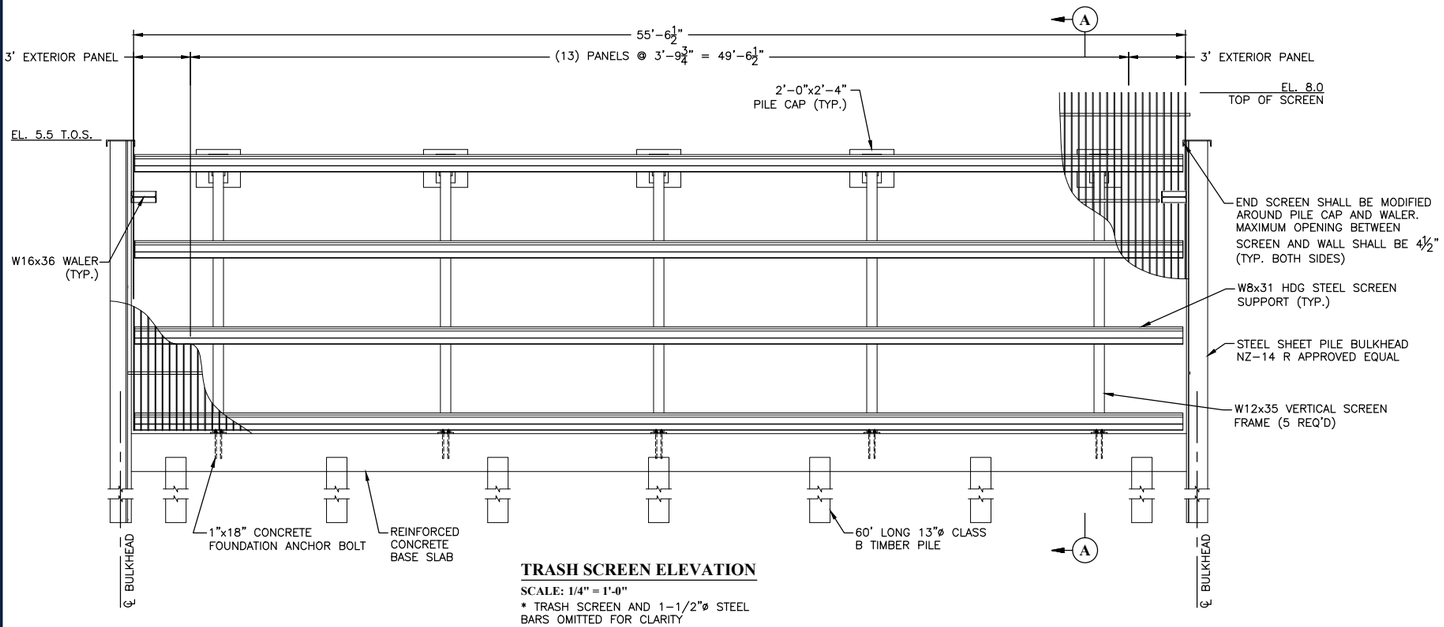
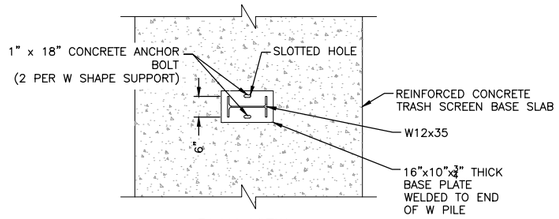


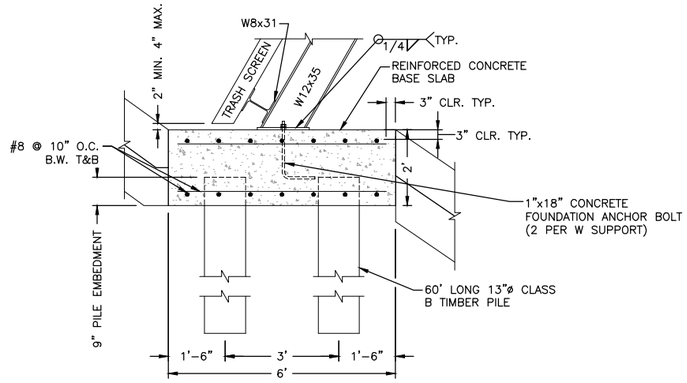
TRASH SCREEN ELEVATION

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

* TRASH SCREEN AND 1-1/2"ø STEEL BARS OMITTED FOR CLARITY

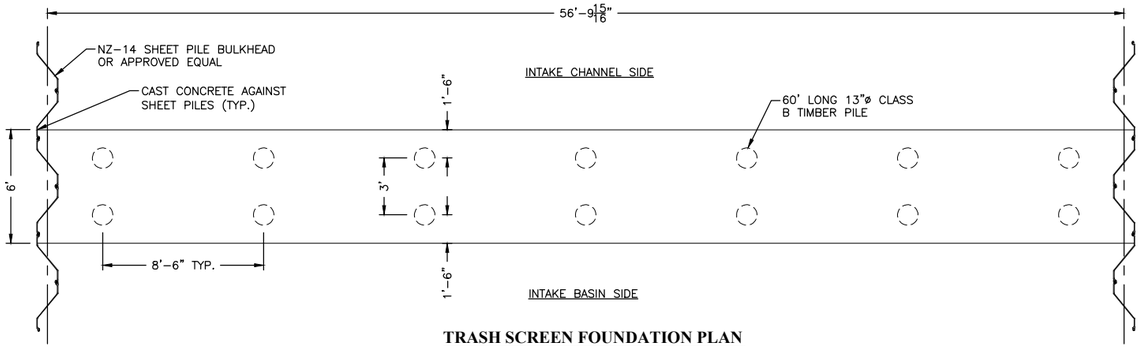


PLAN VIEW



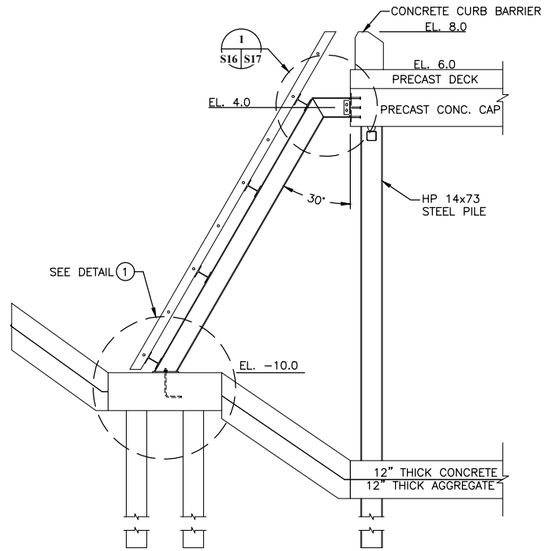
1 DETAIL - TRASH SCREEN CONNECTION AND FOUNDATION

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



TRASH SCREEN FOUNDATION PLAN

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



A SECTION - TRASH SCREEN

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

NOTE: TRASH SCREEN SUPPORT FRAME SHALL BE HOT-DIPPED GALVANIZED.

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BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

TRASH SCREEN SECTION AND DETAILS

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S16

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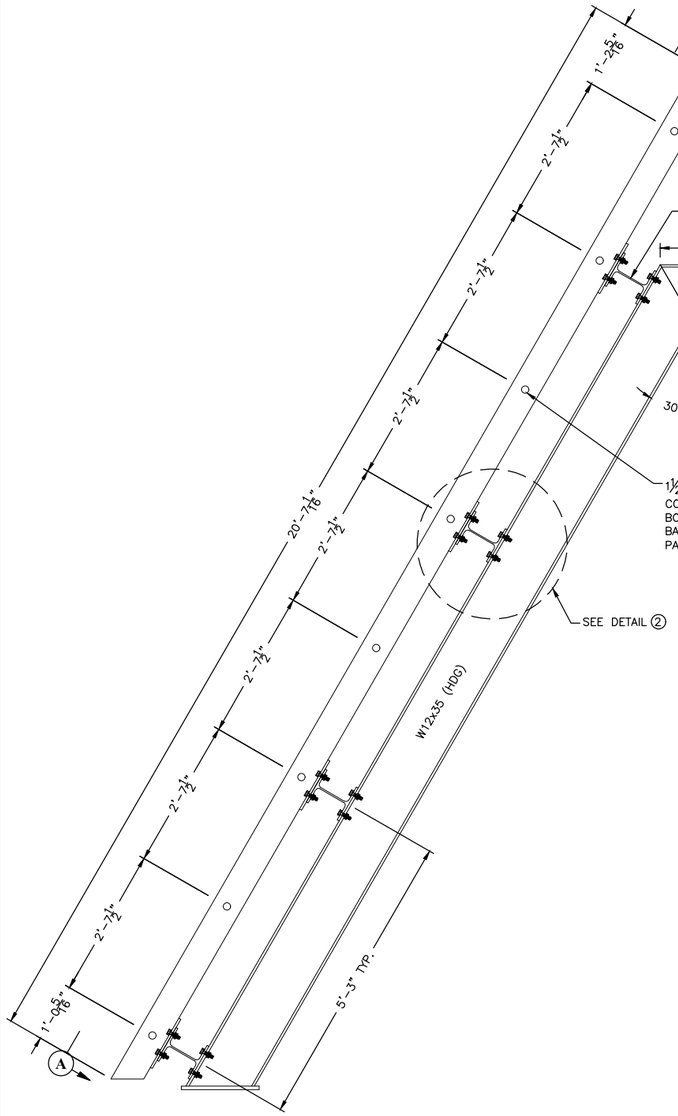
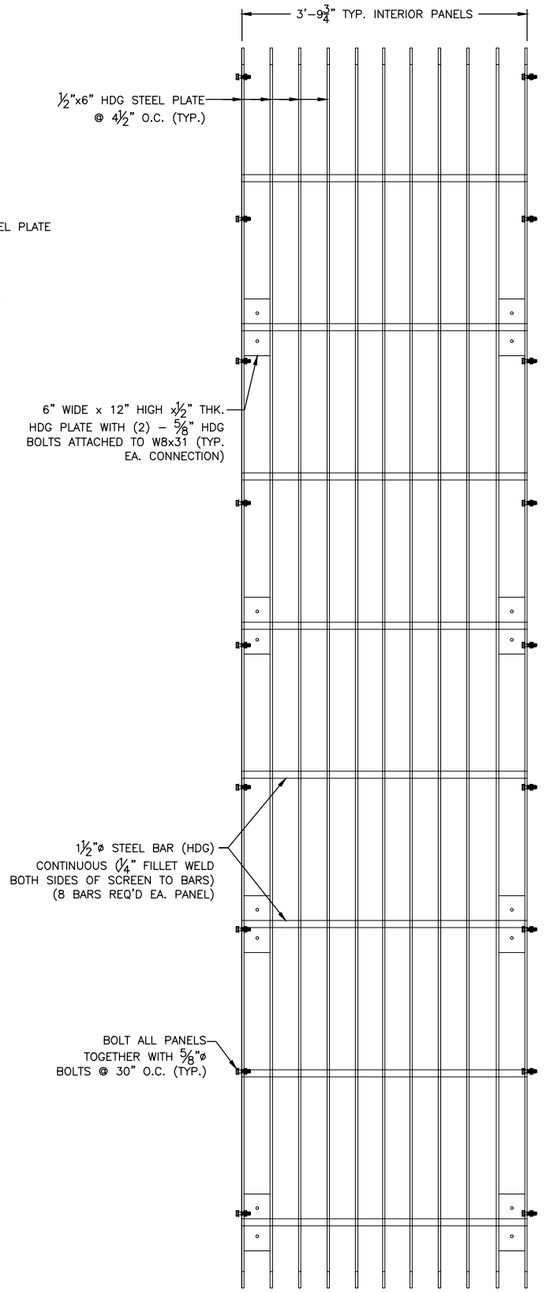


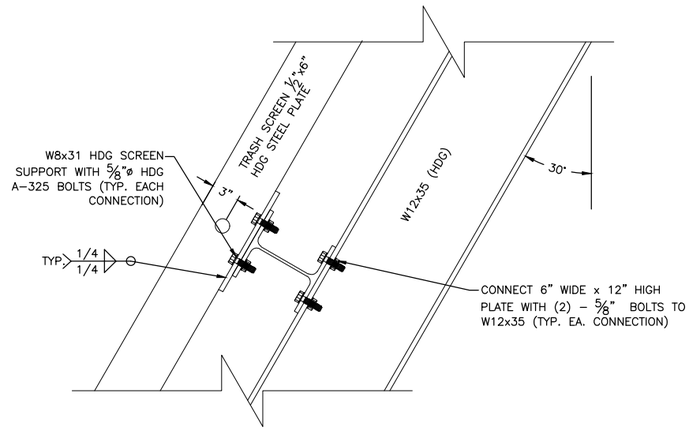
TRASH SCREEN PANEL DETAIL

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



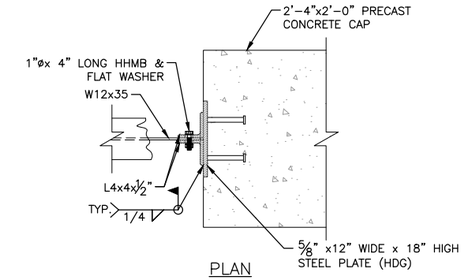
A TRASH SCREEN PANEL FRONT VIEW

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

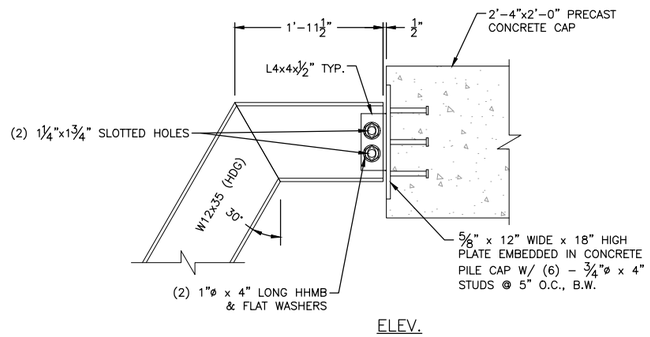


2 DETAIL - TYPICAL BAR SCREEN TO W24x62 CONN.

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



PLAN



ELEV.

1 DETAIL - TYPICAL TRASH SCREEN CONNECTION

S16 | S17

SCALE: 1" = 1'-0"

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S17

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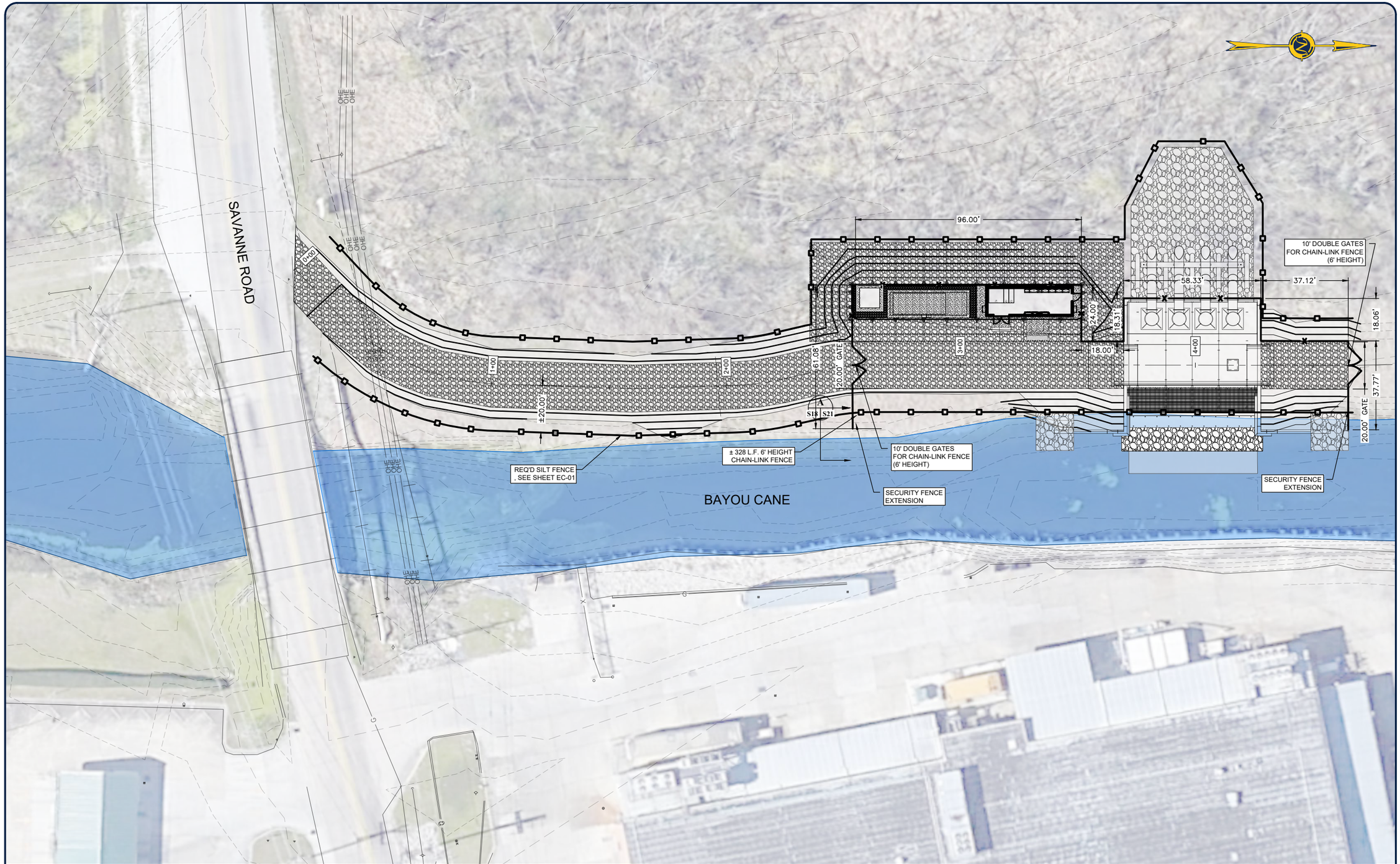

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

LEGEND

– SILT FENCE (ERROSION CONTROL)

– SECURITY FENCING

FENCING PLAN

20' 0' 20' 40' 60'

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S18

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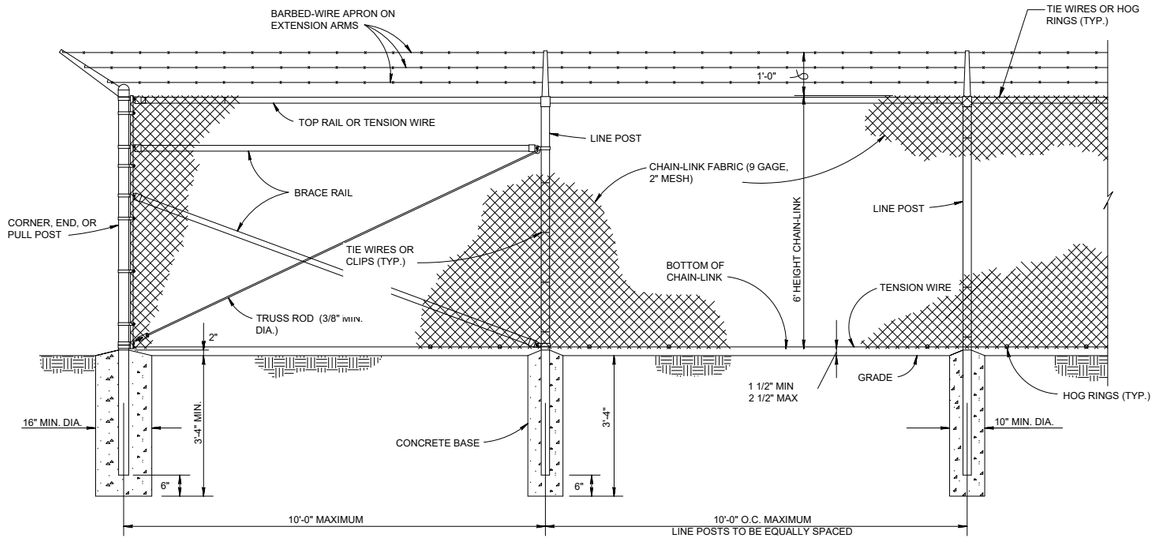
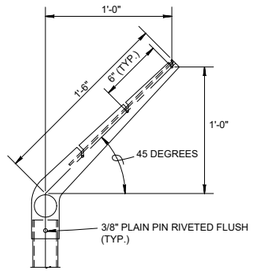


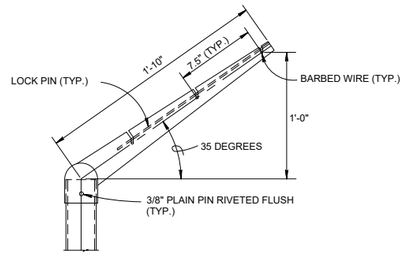
6' HEIGHT CHAIN-LINK SECURITY FENCE DETAIL

NO SCALE

STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
CORNER, END & PULL POSTS	
TUBULAR - ROUND	2.375" O.D.
TUBULAR - SQUARE	2.00" SQ.
LINE POSTS	
TUBULAR - ROUND	1.90" O.D.
TOP, BOTTOM & BRACE RAILS	
TUBULAR - ROUND	1.66" O.D.
TUBULAR - SQUARE	1.50" SQ.



LINE POST



CORNER POST

EXTENSION ARM DETAILS

NO SCALE

NOTES:

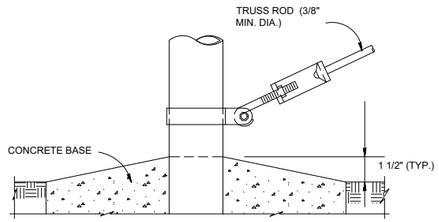
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.

2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.

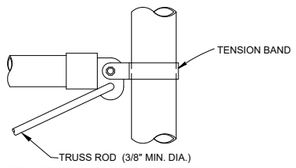
3. UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL CHAIN-LINK FENCE SHALL HAVE AN APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.

4. PRIOR TO FENCE INSTALLATION, THE CONTRACTR SHALL PROVIDE A FENCE SUBMITTAL TO THE ENGINEER FOR APPROVAL. FENCE SUBMITTAL SHALL INCLUDE POST DIAMETERS, LENGTHS, TRUSS RODS, TENSION WIRES, GATES, BASE PLATES AND FENCE ANCHOR DETAILS.

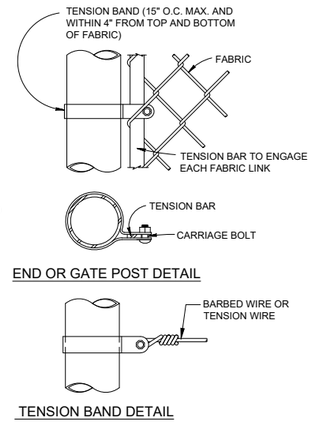
5. CONTRACTOR SHALL BE AWARE OF GRADE CHANGES BETWEEN FENCE/GATE POSTS. CONTRACTOR SHALL ADJUST CHAIN LINK FENCE AS MUCH AS POSSIBLE TO FOLLOW EXISTING GROUND WITHOUT HAVING MORE THAN 5" GAP BETWEEN THE EXISTING GROUND AND THE TENSION WIRES.



TRUSS ROD AND BAND



BRACE RAIL CLAMP DETAILS

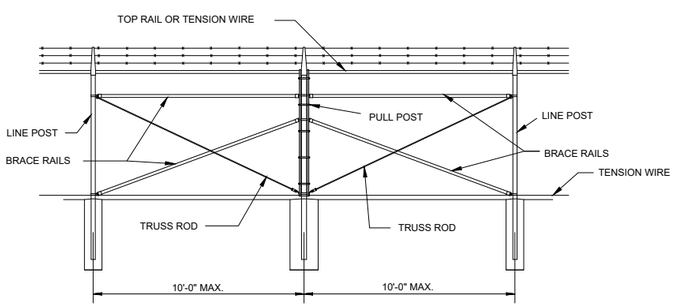


END OR GATE POST DETAIL

TENSION BAND DETAIL

FASTENING DETAILS

NO SCALE

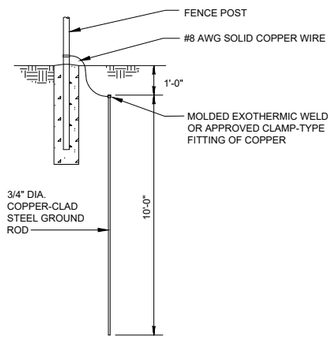


BRACE PANEL DETAIL

NO SCALE

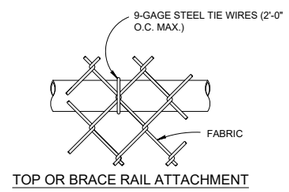
NOTE:

PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 500 FEET.

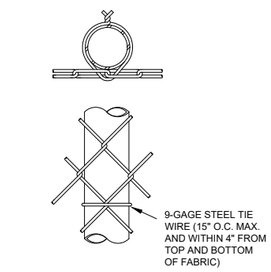


GROUNDING DETAIL

NO SCALE



TOP OR BRACE RAIL ATTACHMENT



ROUND POST

LINE POST ATTACHMENTS

NO SCALE

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REVISIONS		
No.	Description	Date
1	ADDENDUM NO. 1	03/2023

STATE OF LOUISIANA
JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

SECURITY FENCING DETAILS

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S19

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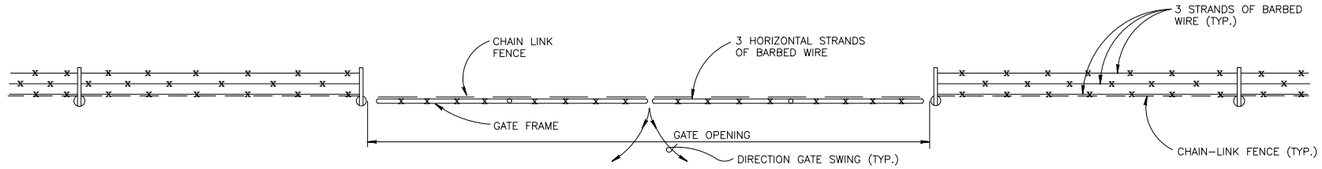
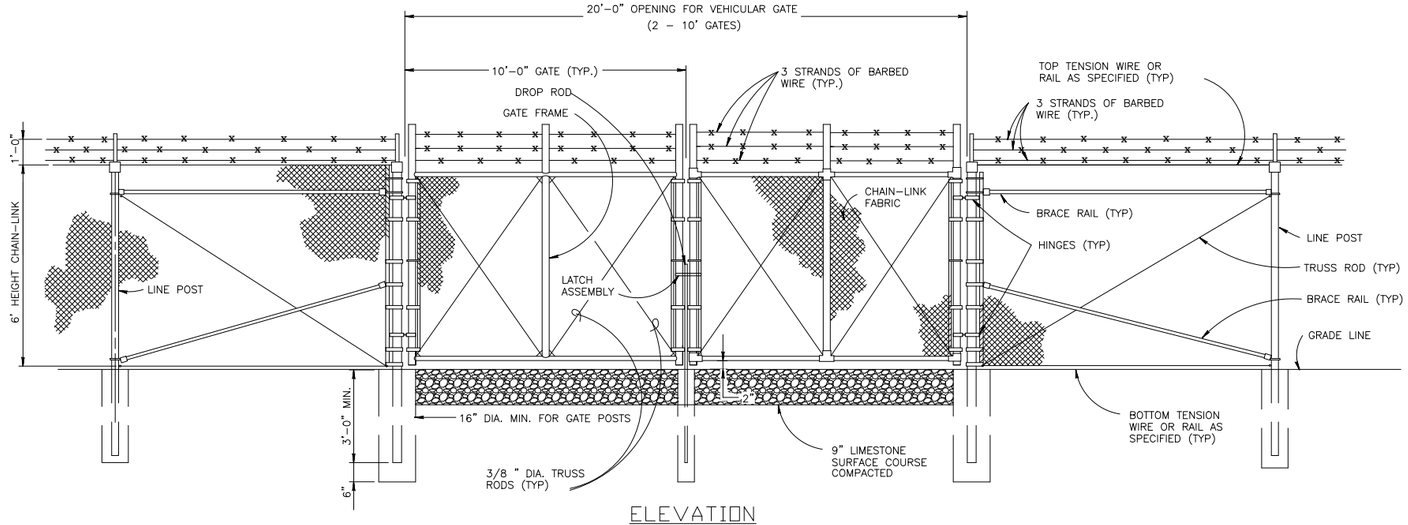


PLAN



ELEVATION

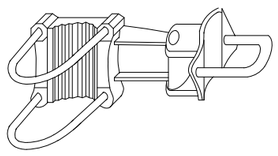
10' DOUBLE SWING GATES FOR CHAIN-LINK FENCE

NO SCALE

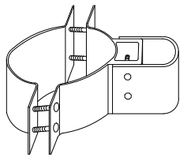
NOTES:

1. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS OTHERWISE NOTED.
2. ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900 1.90" NOMINAL (ROUND). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
3. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
4. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
5. UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL CHAIN-LINK FENCE SHALL HAVE AN APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
6. PRIOR TO FENCE INSTALLATION, THE CONTRACTR SHALL PROVIDE A FENCE SUBMITTAL TO THE ENGINEER FOR APPROVAL. FENCE SUBMITTAL SHALL INCLUDE POST DIAMETERS, LENGTHS, TRUSS RODS, TENSION WIRES, GATES, BASE PLATES AND FENCE ANCHOR DETAILS.
7. CONTRACTOR SHALL BE AWARE OF GRADE CHANGES BETWEEN FENCE/GATE POSTS. CONTRACTOR SHALL ADJUST CHAIN LINK FENCE AS MUCH AS POSSIBLE TO FOLLOW EXISTING GROUND WITHOUT HAVING MORE THAN 5" GAP BETWEEN THE EXISTING GROUND AND THE TENSION WIRES.
8. CONCRETE REINFORCEMENT NOT SHOWN FOR CLARITY.

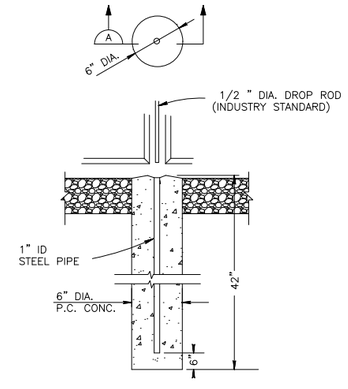
GATE POST SCHEDULE	
GATE WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
10'-0"	4.0" OD



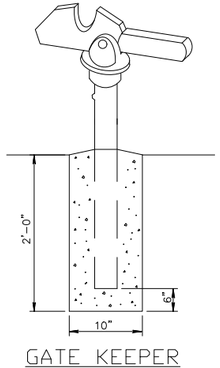
OFFSET HINGE



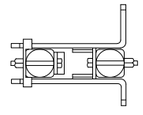
STANDARD HINGE



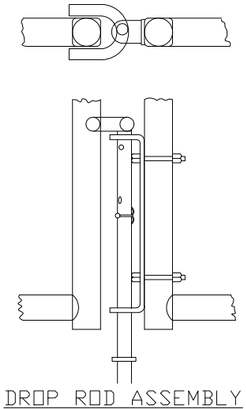
DROP ROD FOUNDATION (A)



GATE KEEPER
(TO HOLD GATE OPEN)



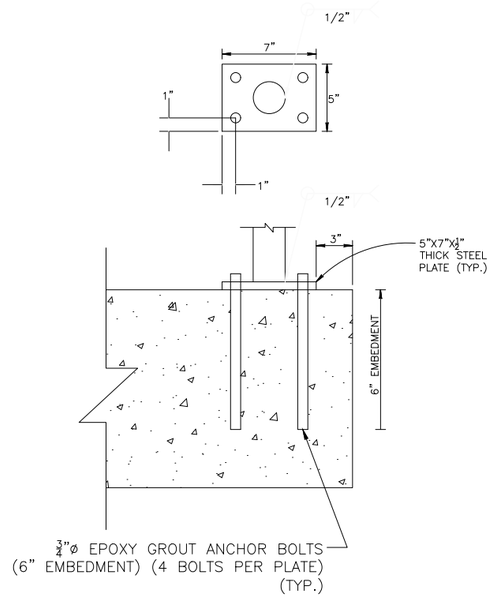
LATCH ASSEMBLY



DROP ROD ASSEMBLY

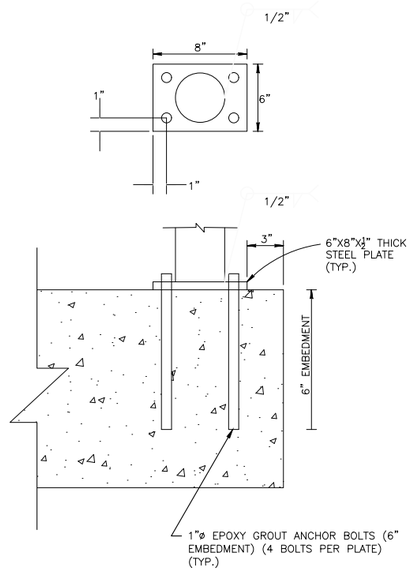
SWING GATE DETAILS

NOT TO SCALE



FENCE POST ON CONCRETE INSTALL

NOT TO SCALE



GATE POST ON CONCRETE INSTALL

NOT TO SCALE

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REVISIONS

No.	Description	Date
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JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

SECURITY FENCING DETAILS

SHEET 2

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S20

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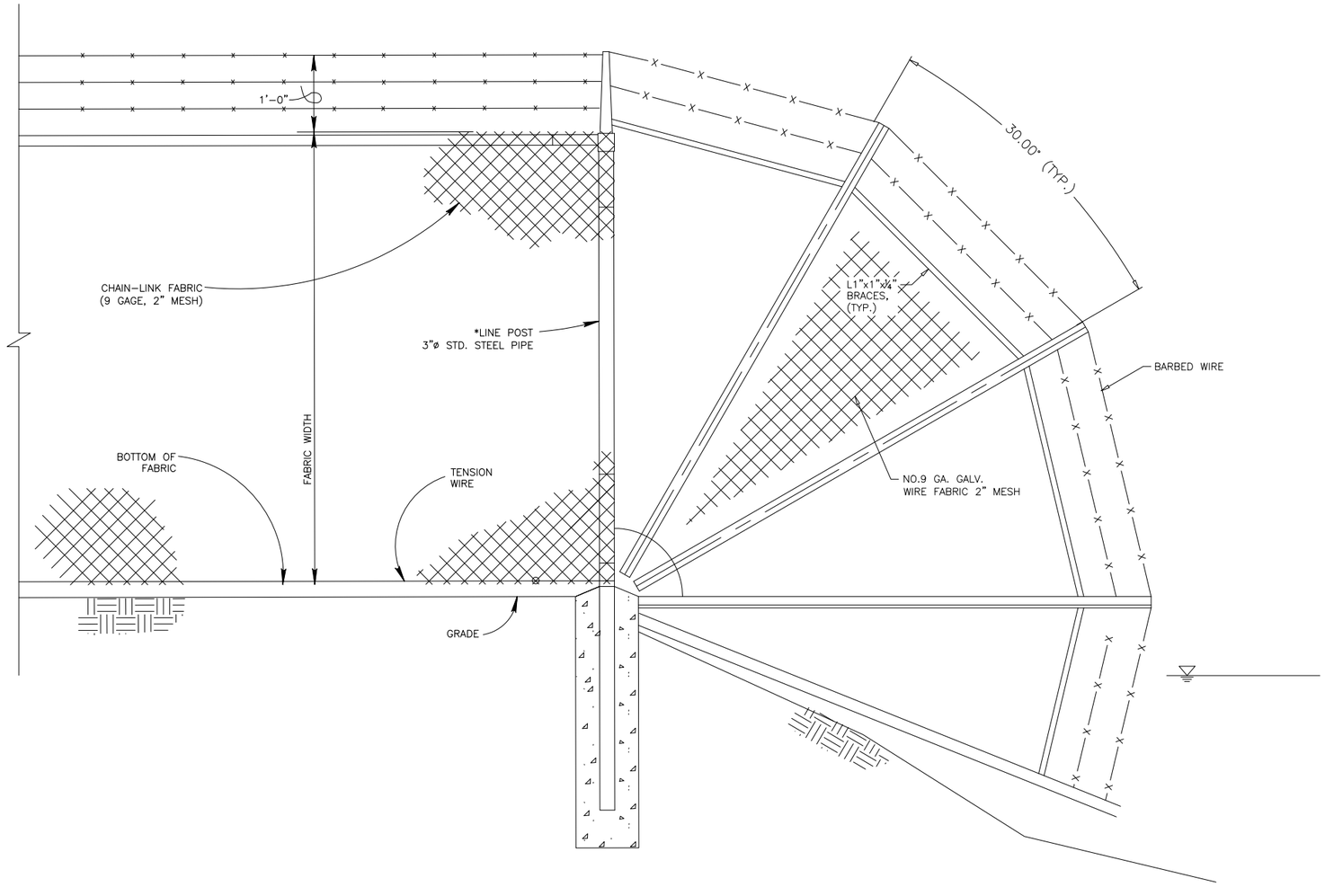

A **SECURITY FENCE EXTENSION**
S18 | S21
SCALE: 1" = 1'-0"

NOTE:
1. CONTRACTOR SHALL SUBMIT A FENCE PLAN TO THE ENGINEER FOR PRE-APPROVAL PRIOR TO INSTALLATION. SUBMITTAL SHALL INCLUDE FENCE DETAILS, FENCE END TREATMENTS WITH DETAILS, AND FOOTING DETAILS.
2. NO SEPARATE PAYMENT WILL BE MADE FOR CHAIN-LINK FENCE END TREATMENTS (2 LOCATIONS AT BAYOU) OR CUT-OUTS REQUIRED FOR DISCHARGE PIPE HOLES. FENCE END TREATMENTS SHALL BE PAID FOR PER LINEAR FOOT OF FENCE.
3. NO FENCE SHALL BE INSTALLED WITHOUT PRIOR AUTHORIZATION OF FENCE EXTENTS FROM THE ENGINEER. CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 48 HOURS PRIOR TO FENCE INSTALLATION.

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IN
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2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

SECURITY FENCING DETAILS SHEET 3

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S21

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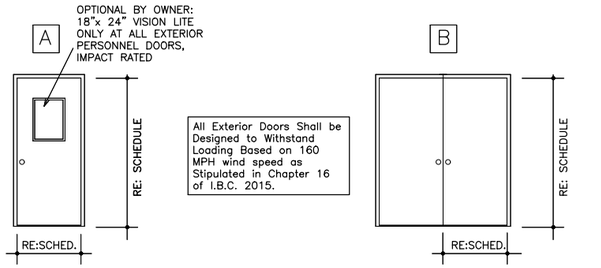
DOOR SCHEDULE

MARK	TYPE	HEIGHT	WIDTH	THICK	MATERIAL	FRAME	REMARKS
1	A	7'-0"	3'-0"	1-3/4"	18-GA. HOLLOW METAL	METAL	HOLLOW METAL DOOR (OPTIONAL VISION PANEL)
2	B	8'-0"	6'-0"	1-3/4"	18-GA. HOLLOW METAL	METAL	HOLLOW METAL DOORS

DOOR TYPES



All Exterior Doors Shall be Designed to Withstand Loading Based on 160 MPH wind speed as Stipulated in Chapter 16 of I.B.C. 2015.

TYPICAL 18-GA. INSULATED METAL DOOR AND FRAME UNIT W/THRESHOLD, WEATHER STRIP, AND S/S LEVER SET

VISION LITE AS SHOWN IN DETAIL ABOVE IS OPTIONAL AS PER THE OWNER'S DIRECTION

GLAZING SHALL BE 5/16" THK. MINIMUM LAMINATED GLASS

INSTALL KICK PLATES ON DOORS INTERIOR SIDE AS PER OWNER

SARGENT ENTRY LOCKSET SIMILAR TO DOOR TYPE B

US26D HINGES (SATIN CHROME FINISH)

EXTERIOR 18-GA. DOUBLE INSUL. METAL DOORS AND FRAME WITH ALUMINUM THRESHOLD AND ASTRAGAL ON RIGHT-HAND LEAF

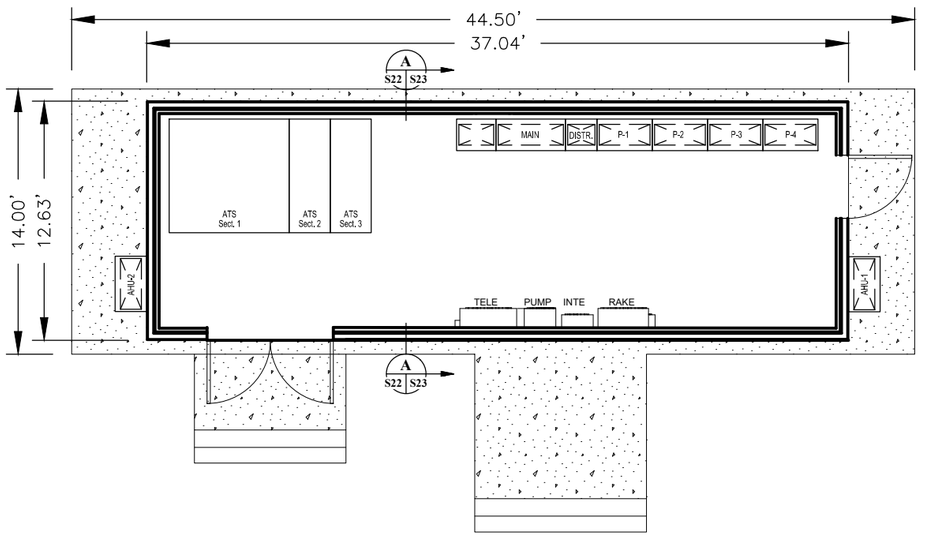
SARGENT 24-6G05 LOCKSET GRADE 2, US26D/626 SATIN CHROME PLATED FINISH (OR APPROVED EQUAL PRODUCT)

PROVIDE SST FOOT BOLT ON INTERIOR OF LEFT-HAND LEAF

INSTALL KICK PLATES ON DOORS INTERIOR SIDE AS PER OWNER

FULL FLUSH DOORS - NO VISION PANELS PROVIDED ON DOORS

US26D HINGES (SATIN CHROME FINISH)



STRUCTURAL SITE PLAN - POWER SUPPLY BUILDING

SCALE: 3" = 1'-0"

GENERAL BUILDING NOTES

1. PREMANUFACTURED METAL BUILDING STRUCTURE SHALL BE RATED FOR A BASIC WIND SPEED (3-SECOND GUST) OF 160 MPH, EXPOSURE "C" CATEGORY, EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
2. FLOOR TYPES: MCC ROOM; FINISHED CONCRETE
3. ALL FLASHING AND TRIM MATERIALS, GUTTERS, DOWNSPOUTS, CONCRETE SPLASH BLOCKS, AND OTHER MISCELLANEOUS ITEMS AND MATERIALS THAT ARE REQUIRED TO CONSTRUCT THE "PRE-ENGINEERED METAL" POWER SUPPLY BUILDING AS DEPICTED ON THE DRAWINGS AND SPECIFICATIONS SHALL BE PAID FOR AND INCLUDED UNDER ITEM E-04.
4. PRE-FINISHED METAL FASCIA, GUTTERS AND DOWNSPOUTS SHALL BE BY THE METAL BUILDING MANUFACTURER.
5. ALL PERSONNEL DOORS SHALL BE AS SPECIFIED AND SHALL BE RATED FOR A BASIC WIND SPEED (3-SECOND GUST) OF 160 MPH, EXPOSURE "C" CATEGORY, PER 2015 EDITION OF THE IBC.
6. THE PLANS AND SPECIFICATIONS ARE NOT INTENDED TO DEPICT EACH AND EVERY CONDITION OR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS IN THE BEST POSITION TO VERIFY THAT ALL CONSTRUCTION IS COMPLETED IN A MANNER WHICH WILL PROVIDE A WATERTIGHT STRUCTURE WHICH COMPLIES WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS AND MEETS MINIMUM INDUSTRY STANDARDS FOR THE TYPE OF CONSTRUCTION PROPOSED.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SAFETY AND SEQUENCE OF CONSTRUCTION AND SHALL, AT ALL TIMES, PROVIDE SUCH TEMPORARY SHORING, BRACING AND ANCHORAGE CONSISTENT WITH ACCEPTED STANDARDS OF METAL BUILDING ERECTION.
8. BUILDING FOUNDATION ANCHORAGE SHALL BE DESIGNED AND SPECIFIED BY BUILDING MANUFACTURER.

PROJECT SPECIFIC NOTES

1. UNLESS OTHERWISE SPECIFIED OR DIRECTED PROVIDE MINIMUM 0.25" THK. LOW-E INSULATION AT THE WALLS AND CEILINGS OF THE "PRE-ENGINEERED" BUILDING ENVELOPE.
2. PROVIDE PRE-FINISHED METAL FLASHINGS WHERE REQUIRED THROUGHOUT AS FABRICATED AND FURNISHED BY THE METAL BUILDING MANUFACTURER.
3. REINFORCED CONCRETE SLAB FOUNDATION AS PER THE STRUCTURAL PLANS AND DETAILS INCLUDED UNDER THIS CONTRACT.
4. PROVIDE MINIMUM 10-MIL THICK VISQUEEN VAPOR BARRIER CONTINUOUS THROUGH TRENCHES AND SEAL ALL PENETRATIONS.
5. ROOFING, SHEET METAL FLASHING AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) STEEP-SLOPE ROOFING MANUAL, THE NRCA ARCHITECTURE SHEET METAL AND METAL ROOFING MANUAL, AND SMACNA ARCHITECTURAL SHEET METAL MANUAL.
6. METAL PROTECTION: WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CONCRETE SUBSTRATES, THE CONTRACTOR SHALL PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING, BY APPLYING A RUBBERIZED-ASPHALT UNDERLAYMENT TO EACH CONTACT SURFACE, OR BY OTHER PERMANENT SEPARATION IN ACCORDANCE WITH INDUSTRY STANDARDS OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO REFER TO APPENDIX A-3 GALVANIC CORROSION OF THE ARCHITECTURAL SHEET METAL MANUAL 5TH EDITION, ASTM STANDARD G82 AND ASTM STP 576.
7. CONTRACTOR SHALL FURNISH AND INSTALL A CUSTOM FABRICATED ¼" THICK HOT DIPPED GALVANIZED STEEL PLATE WITH PROVISIONS FOR (6) 5" RACEWAY THRU-WALL SLEEVES. BUILDING FRAMING SHALL BE PROVIDED TO ATTACH STEEL PLATE AS NECESSARY. EXTERIOR AND INTERIOR FINISHES SHALL BE COMPLETE AROUND STEEL PLATE TO PROVIDE A COMPLETE, SEALED, WEATHERPROOF INSTALLATION COMPLETE WITH ALL REQUIRED FLASHING AND TRIM.

AIR LEAKAGE REQUIREMENTS

1. ALL JOINTS AND PENETRATIONS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE MUST BE CAULKED, GASKETED, WEATHER STRIPPED OR OTHERWISE SEALED IN AN APPROVED MANNER AS PER THE APPROVAL OF THE ENGINEER.
2. RECESSED LIGHTING FIXTURES MUST BE GASKETED AND IC RATED, I.E., RATED FOR DIRECT CONTACT WITH INSULATION.

BUILDING COMPONENT CERTIFICATION

1. ALL MANUFACTURED FENESTRATION PRODUCTS MUST HAVE U-FACTOR, SHGC, AND AIR LEAKAGE RATE IDENTIFIED ON A PERMANENT NAMEPLATE INSTALLED ON EACH PRODUCT BY THE MANUFACTURER, OR A SIGNED AND DATED CERTIFICATION.
2. MANUFACTURED DOORS INSTALLED BETWEEN CONDITIONED SPACE, SEMI-HEATED SPACE, UNCONDITIONED SPACE AND EXTERIOR SPACE MUST HAVE U-FACTOR AND AIR LEAKAGE RATE IDENTIFIED ON A PERMANENT NAMEPLATE INSTALLED ON EACH PRODUCT BY THE MANUFACTURER, OR A SIGNED AND DATED CERTIFICATE.

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

POWER SUPPLY BUILDING PLANS

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S22

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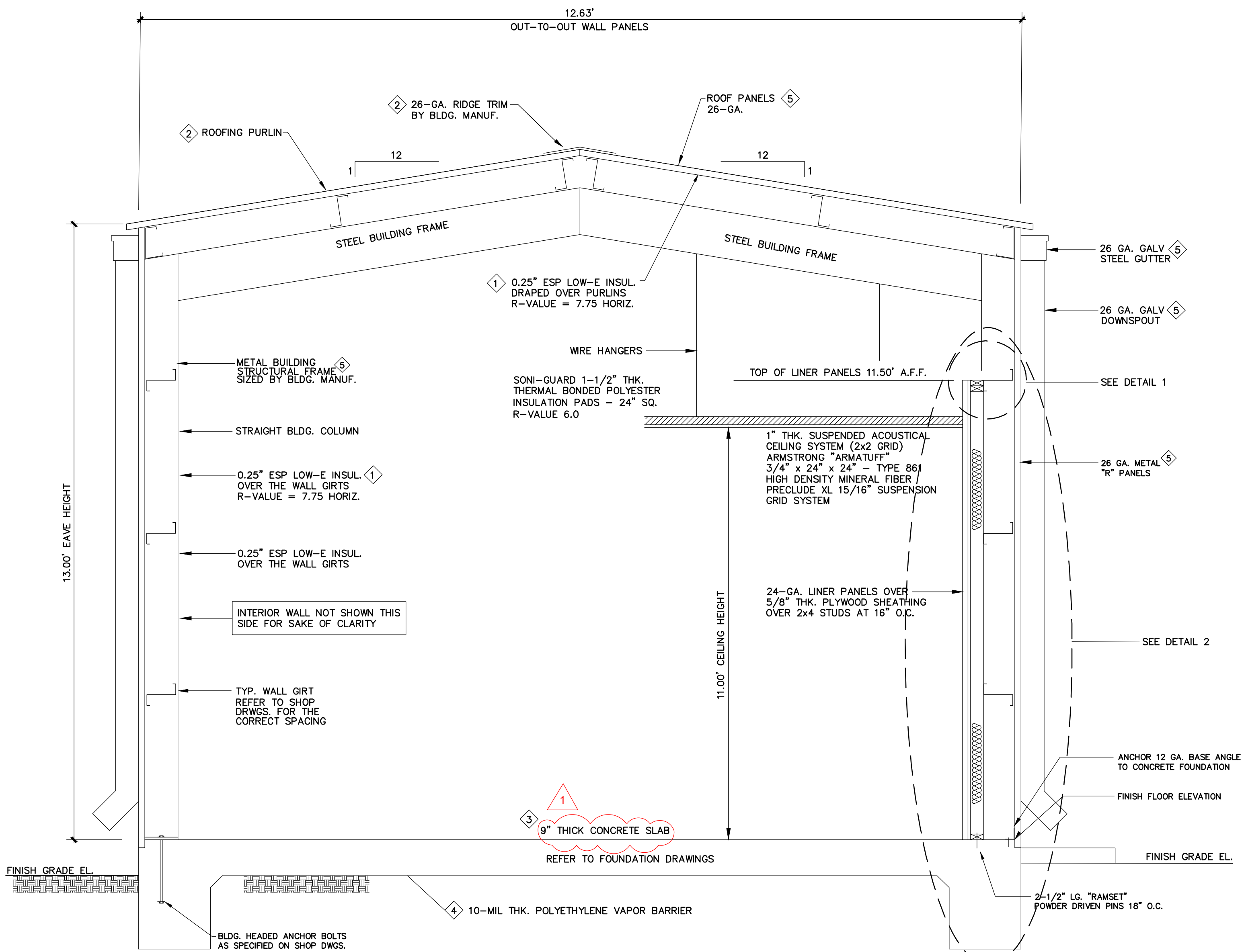
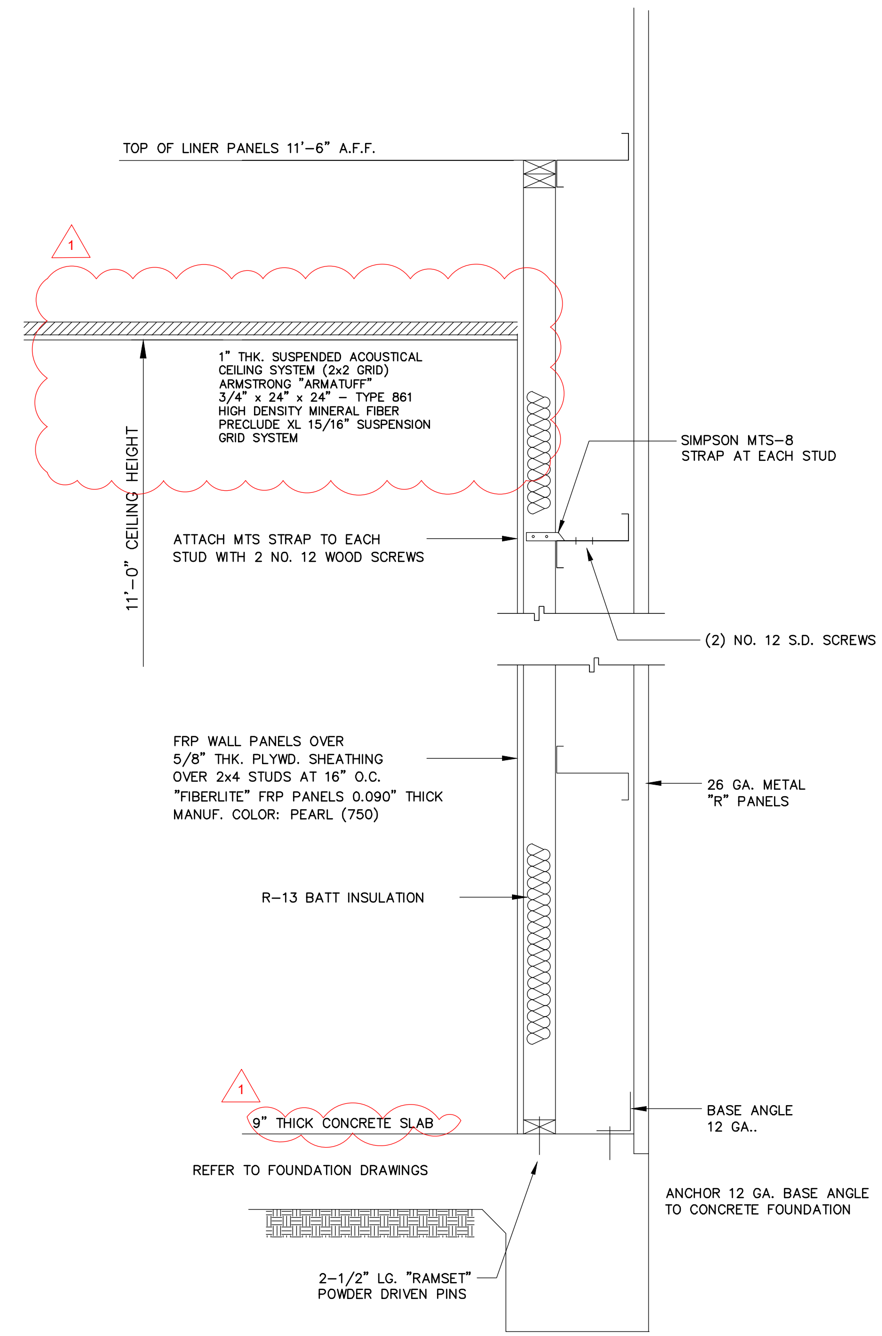
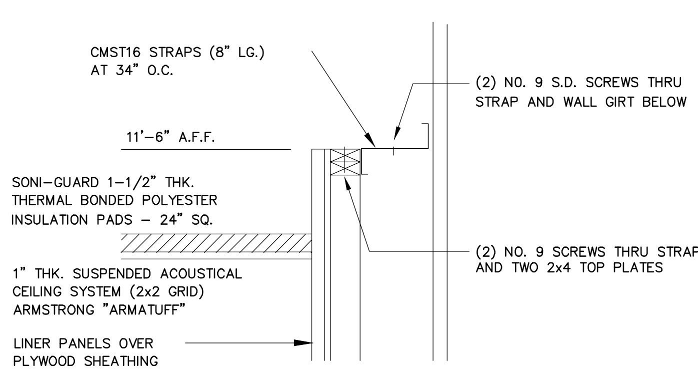


A S22 S23 **CROSS-SECTION OF POWER SUPPLY BUILDING**
SCALE: N.T.S.



2 **DETAIL - EXTERIOR WALL**
SCALE: N.T.S.



1 **DETAIL - WALL FRAMING**
SCALE: N.T.S.

NOTES:
1. BUILDING FOUNDATION ANCHORAGE SHALL BE DESIGNED AND SPECIFIED BY BUILDING MANUFACTURER.

GIS ENGINEERING LLC
Coastal Design & Infrastructure
197 Elysian Drive
Houma, LA 70363
O: (985) 219-1000 | F: (985) 475-7014
ENGINEERING • PLANNING • ENVIRONMENTAL CONSULTING

REVISIONS

No.	Description	Date
1	ADDENDUM NO. 1	03/2023

STATE OF LOUISIANA
JACOB D. DONNES
License No. 37133
PROFESSIONAL ENGINEER
IN
Structural Engineering
2/28/23

THIS DRAWING HAS BEEN REDUCED TO ONE HALF SIZE

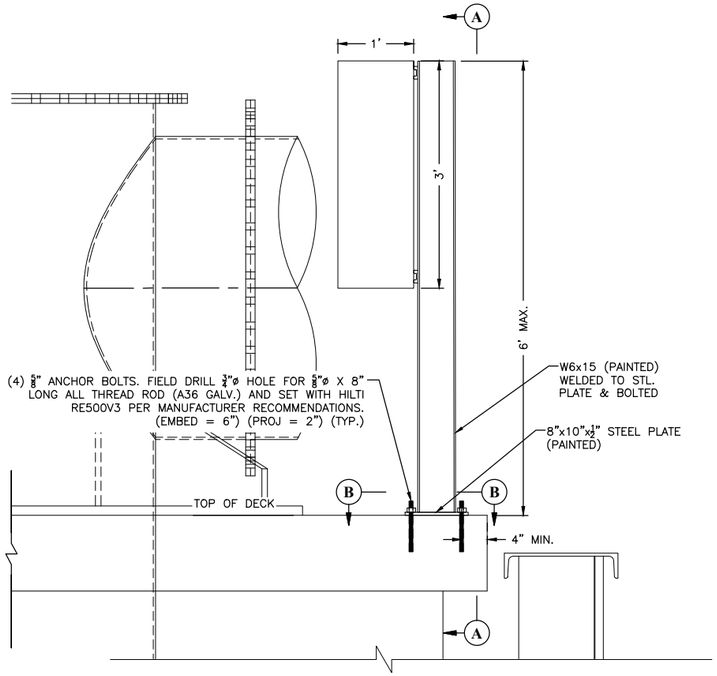
TERREBONNE PARISH
CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE
PHASE I: BAYOU CANE PUMP STATION

POWER SUPPLY
BUILDING PLANS

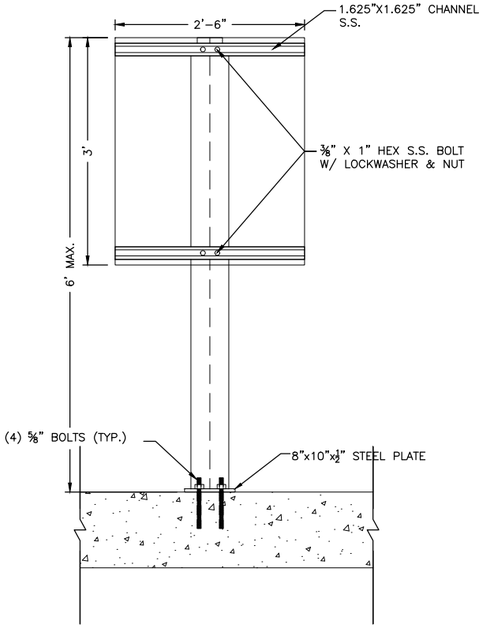
Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

S23

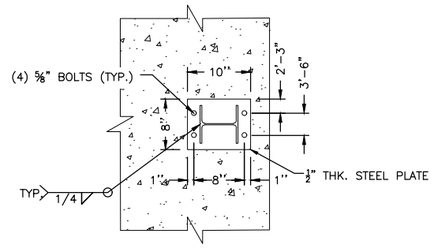


1 **1 SECTION - JUNCTION BOX**
S04 | S24
SCALE: 1" = 1'-0"

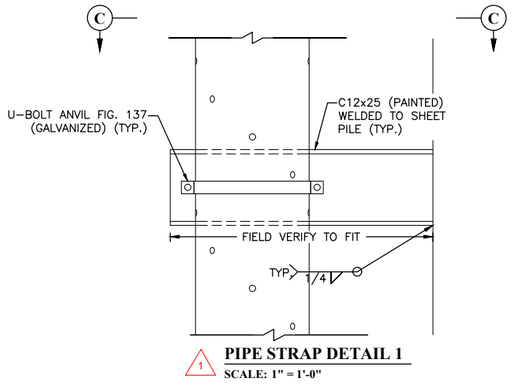
NOTE: ELECTRICAL JUNCTION BOX SUPPORT FRAME PAID UNDER BID ITEM NS-13.



1 **A SECTION - JUNCTION BOX**
SCALE: 1" = 1'-0"

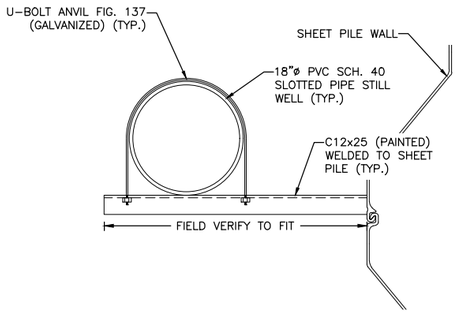


1 **B DETAIL - PLATE**
SCALE: 1" = 1'-0"



1 **PIPE STRAP DETAIL 1**
SCALE: 1" = 1'-0"

NOTE: PIPE STRAP, BOLTS & FRAME TO BE INCLUDED UNDER PAY ITEM NS-12.



1 **C SECTION - PIPE STRAP**
SCALE: 1" = 1'-0"

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IN
Structural Engineering
2/28/23

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TERREBONNE PARISH CONSOLIDATED GOVERNMENT

BAYOU TERREBONNE DRAINAGE PHASE I: BAYOU CANE PUMP STATION

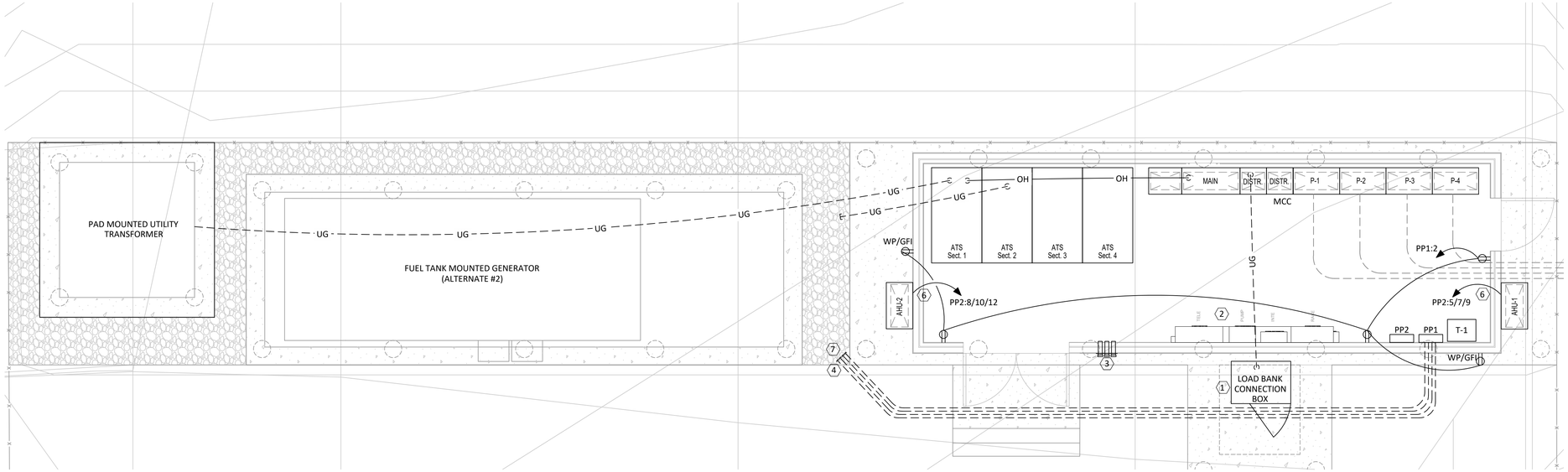
MISCELLANEOUS STRUCTURAL DETAILS

Project number	17-DRA-42
Date	JANUARY 2023
Designed by	BMH
Drawn by	BMH
Checked by	JD
Checked by	AR
Plot Date	March 2, 2023

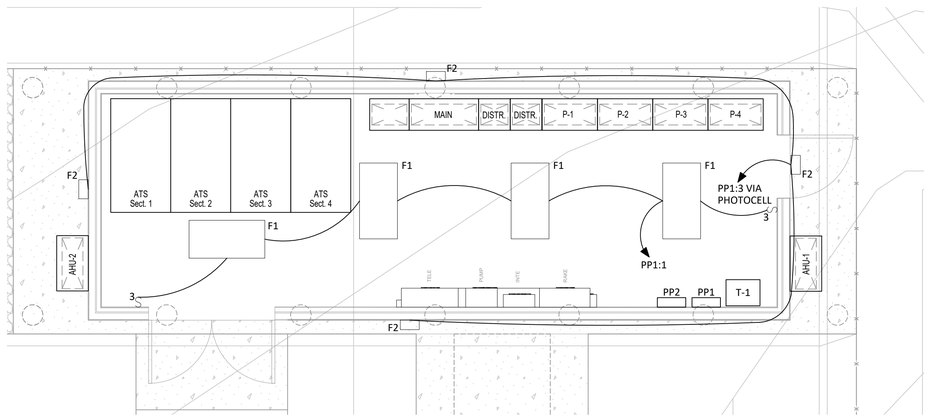
S24

GENERAL NOTES:

1. ALL CONDUIT ROUTED UNDER SLAB TO BE SUPPORTED FROM UNDERSIDE OF SLAB WITH 1/2" STAINLESS STEEL ALL-THREAD RODS ON UNISTRUT TRAPEZE HANGERS.



1 ELECTRICAL/CONTROL BUILDING POWER PLAN
1/4" = 1'-0"



2 CONTROL BUILDING LIGHTING LAYOUT
1/4" = 1'-0"

4' 2' 0 4' 8'
1/4"= 1'-0"

N

SPECIFIC NOTES:

1. 2000A, 480V, 3Ø, 3 WIRE, GROUND, TEMPORARY LOAD BANK CONNECTOR BOX. CAMLOCK MALE RECEPTACLES, NEMA 3R, 316 STAINLESS STEEL. ESL POWER SYSTEMS 3822 SERIES OUTTAP DISTRIBUTION UNIT OR EQUAL.
2. SEE SHEET E1.3 DETAIL 2 FOR PUMP CONTROLS ELEVATION.
3. SOLID 1/4" PLATE WITH FLASHING FOR (6) 5" RACEWAY THRU-WALL SLEEVES WITH THREADED RIGID PIPE CAPS FOR RENTAL GENERATOR CONNECTION.
4. STUB OUT (4) 3/4" CONDUITS FROM PANEL 'PP1' FOR CONNECTION OF FUTURE GENERATOR ACCESSORIES AND CONTROLS AS PART OF BASE BID.
5. PROVIDE (1) 3/4" RGS CONDUIT WITH (3) #10 AWG COPPER CONDUCTORS FOR AC UNIT. TERMINATE IN PANEL PP1 ON AN EARTH LEAKAGE CIRCUIT BREAKER.
6. FEED THROUGH WALL TO INTEGRATED FACTORY CIRCUIT BREAKER.

ALTERNATE #2

7. EXTEND 3/4" CONDUITS TO GENERATOR AND PULL CONDUCTORS FOR GENERATOR ACCESSORIES AND CONTROLS.

NO	REVISION	DATE
	ADDENDUM #1	03/01/2023

BAYOU CANE - PUMP STATION

BAYOU BLACK, TERREBONE PARISH PROJECT ADDRESS

CONTROL BUILDING ELECTRICAL PLAN

YKH Consulting LLC
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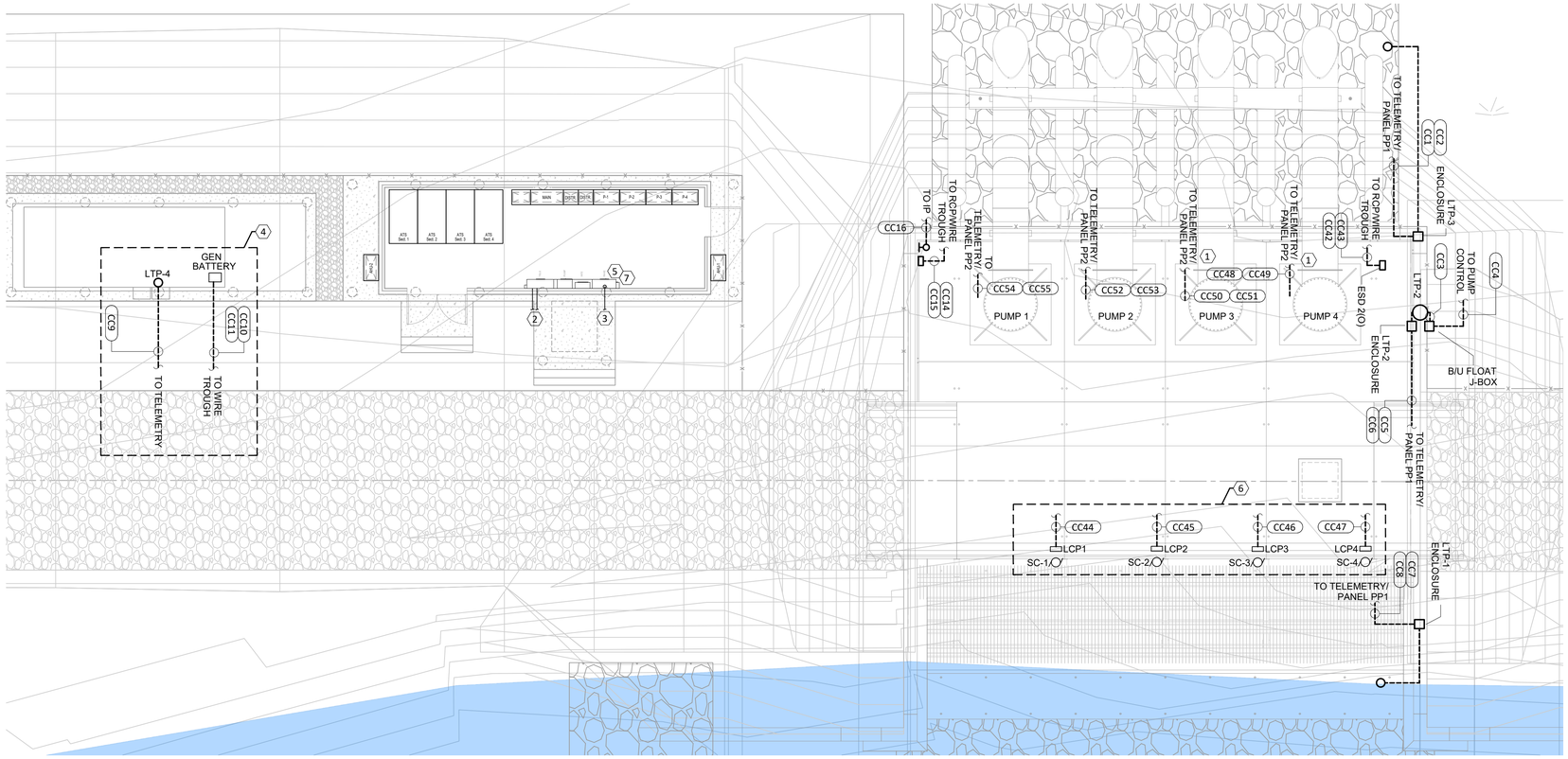
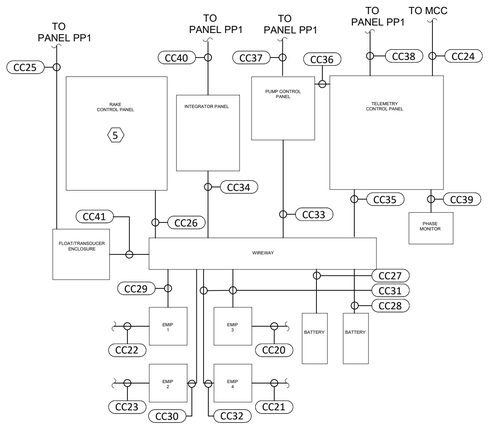
11/21/23

JOB. NO.: 1909201
PHASE: BID SET
DATE: 01/20/23

E1.1



1 ELECTRICAL CONTROL CABLE SITE PLAN
1/8" = 1'-0"



2 PUMP CONTROLS ELEVATION
NO SCALE

8' 4' 0 8' 16'
1/8"= 1'-0"

N

SPECIFIC NOTES:

1. PROVIDE EMPTY CONDUIT AND PULLSTRING FOR PUMPS 3 AND 4 CONTROLS UNDER BASE BID
2. STUB OUT CONDUIT FROM TELEMETRY CONTROL PANEL FOR FUTURE CONNECTION TO GENERATOR.
3. RUN EMPTY CONDUITS WITH PULL STRINGS FROM STUB UP INSIDE BUILDING TO SCREEN CLEANERS 1 THROUGH 4 AND LOCAL CONTROL PANELS.

ALTERNATE #2

4. EXTEND CONDUITS FROM STUB OUTS TO GENERATOR AND PULL CONDUCTORS FOR GENERATOR CONTROLS FROM TELEMETRY CONTROL PANEL.

ALTERNATE #3

5. INSTALL RAKE CONTROL PANEL
6. INSTALL SCREEN CLEANERS AND LOCAL CONTROL PANELS.
7. PULL ALL CONDUCTORS FROM RAKE CONTROL PANEL TO SCREEN CLEANERS 1-4 AND LOCAL CONTROL PANELS AND MAKE CONNECTIONS.

NO	REVISION	DATE
ADDENDUM #1		03/01/2023

BAYOU CANE - PUMP STATION

BAYOU BLACK, TERREBONE PARISH PROJECT ADDRESS

ELECTRICAL CONTROL CABLE SITE PLAN

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CHECKED BY: CMH
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JOB. NO.: 1909201
PHASE: BID SET
DATE: 01/20/23

E1.2

POWER CONDUIT AND CABLE SCHEDULE

CONDUIT NUMBER	FROM	TO	PURPOSE	SIZE	CONDUIT TYPE	CONDUCTORS	CONDUCTOR TYPE	INSULATION TYPE
CC1	TELEMETRY PANEL	LTP-3 ENCLOSURE	LEVEL TRANSMITTER 3 COMMUNICATION	3/4"	SCH 80 PVC	(1) #18 TSP	STRANDED COPPER	THWN
CC2	PANEL PP1	LTP-3 ENCLOSURE	LTP-3 ENCLOSURE HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC3	B/U FLOAT JUNCTION BOX	EXTERNAL FLOAT TUBE	SUMP FLOAT SWICTH	1"	SCH 80 PVC	(13) #14	STRANDED COPPER	THWN
CC4	PUMP CONTROL PANEL	B/U FLOAT JUNCTION BOX	B/U FLOAT JUNCTION BOX FEED	3/4"	SCH 80 PVC	(7) #14	STRANDED COPPER	THWN
CC5	TELEMETRY PANEL	LTP-2 ENCLOSURE	LEVEL TRANSMITTER 2 COMMUNICATION	3/4"	SCH 80 PVC	(1) #18 TSP	STRANDED COPPER	THWN
CC6	PANEL PP1	LTP-2 ENCLOSURE	LTP-2 ENCLOSURE HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC7	TELEMETRY PANEL	LTP-1 ENCLOSURE	LEVEL TRANSMITTER 1 COMMUNICATION	3/4"	SCH 80 PVC	(1) #18 TSP	STRANDED COPPER	THWN
CC8	PANEL PP1	LTP-1 ENCLOSURE	LTP-1 ENCLOSURE HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC9	TELEMETRY PANEL	LTP-4 ENCLOSURE	LEVEL TRANSMITTER 4 COMMUNICATION	3/4"	SCH 80 PVC	(1) #18 TSP	STRANDED COPPER	THWN
CC10	GENERATOR 1	WIRE TROUGH	GENERATOR BATTERY 1	3/4"	SCH 80 PVC	(2) #12	STRANDED COPPER	THWN
CC11	GENERATOR 1	WIRE TROUGH	GENERATOR BATTERY 1 MONITOR	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC12	WIRE TROUGH	ESD 2(I)	ESD 2(I) FEED	3/4"	RAC	(2) #14	STRANDED COPPER	THWN
CC13	RAKE CONTROL PANEL	ESD 2(I)	ESD 2(I) FEED	3/4"	RAC	(2) #14	STRANDED COPPER	THWN
CC14	WIRE TROUGH	ESD 1(O)	ESD 1(O) FEED	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC15	RAKE CONTROL PANEL	ESD 1(O)	ESD 1(O) FEED	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC16	INTEGRATOR	ESD STROBE (O)	ESD STROBE (O) FEED	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC17	WIRE TROUGH	ESD 1(I)	ESD 1(I) FEED	3/4"	RAC	(2) #14	STRANDED COPPER	THWN
CC18	RAKE CONTROL PANEL	ESD 1(I)	ESD 1(I) FEED	3/4"	RAC	(2) #14	STRANDED COPPER	THWN
CC19	INTEGRATOR	ESD STROBE (I)	ESD STROBE (I) FEED	3/4"	RAC	(2) #14	STRANDED COPPER	THWN
CC20	MCC SECTION 7	EMIP 3	COMMUNICATION CONNECTION	3/4"	RAC	(12) #14	STRANDED COPPER	THWN
CC21	MCC SECTION 8	EMIP 4	COMMUNICATION CONNECTION	3/4"	RAC	(12) #14	STRANDED COPPER	THWN
CC22	MCC SECTION 5	EMIP 1	COMMUNICATION CONNECTION	3/4"	RAC	(12) #14	STRANDED COPPER	THWN
CC23	MCC SECTION 6	EMIP 2	COMMUNICATION CONNECTION	3/4"	RAC	(12) #14	STRANDED COPPER	THWN
CC24	TELEMETRY	ATS	ATS CONTROLS	3/4"	RAC	(4) #14	STRANDED COPPER	THWN
CC25	PANEL PP1	RAKE CONTROL PANEL	RAKE CONTROL PANEL FEED	1"	RAC	(4) #10	STRANDED COPPER	THWN
CC26	RAKE CONTROL PANEL	WIRE TROUGH	RAKE CONTROLS	3/4"	RAC	(4) #14	STRANDED COPPER	THWN
CC27	SCADA BATTERY 1	WIRE TROUGH	SCADA BATTERY 1	3/4"	RAC	(2) #12	STRANDED COPPER	THWN
CC28	SCADA BATTERY 2	WIRE TROUGH	SCADA BATTERY 2	3/4"	RAC	(2) #12	STRANDED COPPER	THWN
CC29	EMIP 1	WIRE TROUGH	CONTROLS	3/4"	RAC	(8) #14, (1) #18 TSP, (1) CAT5	STRANDED COPPER	THWN
CC30	EMIP 2	WIRE TROUGH	CONTROLS	3/4"	RAC	(8) #14, (1) #18 TSP, (1) CAT5	STRANDED COPPER	THWN
CC31	EMIP 3	WIRE TROUGH	CONTROLS	3/4"	RAC	(8) #14, (1) #18 TSP, (1) CAT5	STRANDED COPPER	THWN
CC32	EMIP 4	WIRE TROUGH	CONTROLS	3/4"	RAC	(8) #14, (1) #18 TSP, (1) CAT5	STRANDED COPPER	THWN
CC33	PUMP CONTROL PANEL	WIRE TROUGH	CONTROLS	1 1/2"	RAC	(15) #14	STRANDED COPPER	THWN
CC34	INTEGRATION PANEL	WIRE TROUGH	INTEGRATION CONTROLS	(2) 4"	RAC	(70) #14, (8) #12	STRANDED COPPER	THWN
CC35	TELEMETRY CONTROL PANEL	WIRE TROUGH	TELEMETRY CONTROLS	2"	RAC	(22) #14	STRANDED COPPER	THWN
CC36	TELEMETRY CONTROL PANEL	PUMP CONTROL PANEL	PUMP OVERIDE CONTROLS	2"	RAC	(19) #14, (1) CAT5	STRANDED COPPER	THWN
CC37	PANEL PP1	PUMP CONTROL PANEL	PUMP CONTROL PANEL FEED	3/4"	RAC	(3) #12	STRANDED COPPER	THWN
CC38	PANEL PP1	TELEMETRY CONTROL PANEL FEED	TELEMETRY CONTROL PANEL FEED	3/4"	RAC	(7) #12	STRANDED COPPER	THWN
CC39	TELEMETRY CONTROL PANEL	PHASE MONITOR	PHASE MONITOR FEED	3/4"	RAC	(7) #12	STRANDED COPPER	THWN
CC40	PANEL PP1	INTEGRATOR PANEL	INTEGRATOR PANEL FEED	3/4"	RAC	(3) #12	STRANDED COPPER	THWN
CC41	FLOAT/TRANSDUCER ENCLOSURE	WIRE TROUGH	FLOAT/TRANSDUCER CONTROLS	3/4"	RAC	(4) #14	STRANDED COPPER	THWN
CC42	WIRE TROUGH	ESD 2(O)	ESD 2(O) FEED	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC43	RAKE CONTROL PANEL	ESD 2(O)	ESD 2(O) FEED	3/4"	SCH 80 PVC	(2) #14	STRANDED COPPER	THWN
CC44	RAKE CONTROL PANEL	LCP1	HAND-OFF-AUTO CONTROL	3/4"	SCH 80 PVC	(3) #14	STRANDED COPPER	THWN
CC45	RAKE CONTROL PANEL	LCP2	HAND-OFF-AUTO CONTROL	3/4"	SCH 80 PVC	(3) #14	STRANDED COPPER	THWN
CC46	RAKE CONTROL PANEL	LCP3	HAND-OFF-AUTO CONTROL	3/4"	SCH 80 PVC	(3) #14	STRANDED COPPER	THWN
CC47	RAKE CONTROL PANEL	LCP4	HAND-OFF-AUTO CONTROL	3/4"	SCH 80 PVC	(3) #14	STRANDED COPPER	THWN
CC48	PUMP 1	MCC SECTION 5	MOTOR HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC49	PUMP 1	MCC SECTION 5	VIBRATION SENSER & TEMP SENSOR	3/4"	SCH 80 PVC	(6) #14	STRANDED COPPER	THWN
CC50	PUMP 2	MCC SECTION 6	MOTOR HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC51	PUMP 2	MCC SECTION 6	VIBRATION SENSER & TEMP SENSOR	3/4"	SCH 80 PVC	(6) #14	STRANDED COPPER	THWN
CC52	PUMP 3	MCC SECTION 7	MOTOR HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC53	PUMP 3	MCC SECTION 7	VIBRATION SENSER & TEMP SENSOR	3/4"	SCH 80 PVC	(6) #14	STRANDED COPPER	THWN
CC54	PUMP 4	MCC SECTION 8	MOTOR HEATER	3/4"	SCH 80 PVC	(3) #12	STRANDED COPPER	THWN
CC55	PUMP 4	MCC SECTION 8	VIBRATION SENSER & TEMP SENSOR	3/4"	SCH 80 PVC	(6) #14	STRANDED COPPER	THWN

SPECIFIC NOTES:

NO	REVISION	DATE
ADDENDUM #1		03/01/2023

BAYOU CANE - PUMP STATION

BAYOU BLACK, TERREBONE PARISH PROJECT ADDRESS

ELECTRICAL CONTROL CABLE SCHEDULE

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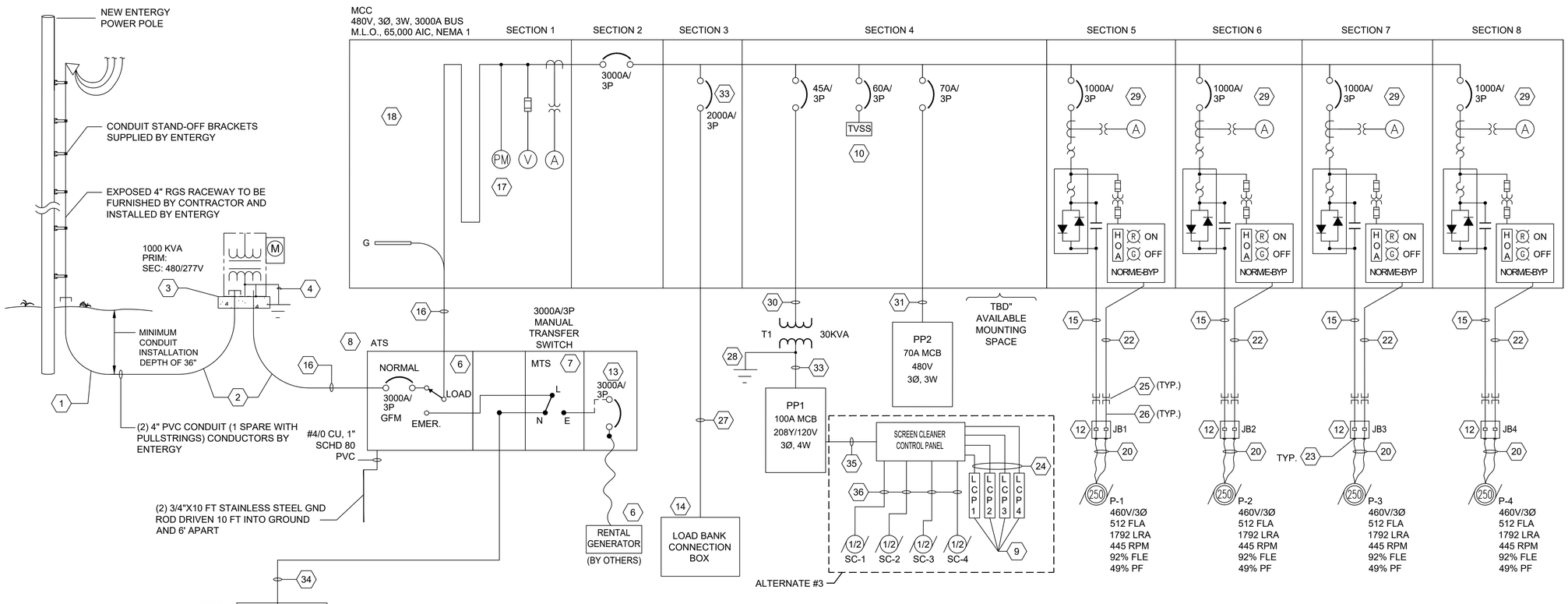
JOB. NO.: 1909201
PHASE: BID SET
DATE: 01/20/23

E1.3



25" WIDE	44" WIDE	20" WIDE	20" WIDE	35" WIDE	35" WIDE	35" WIDE	35" WIDE
SECTION 1 INCOMING CABLE SECTION	SECTION 2 3000A MAIN BREAKER	SECTION 3 MOUNTING UNIT SECTION	PP2 T1 60A TVSS FEEDER TVSS SPACE	SECTION 5 P-1	SECTION 6 P-2	SECTION 7 P-3	SECTION 8 P-4

MCC-ELEVATION VIEW

N.T.S.

1 ELECTRICAL RISER DIAGRAM

E50 SPECIFIC NOTES:

1. 36" RADIUS 90° ELBOW, CONCRETE ENCASED.
2. 36" RADIUS 90° ELBOW.
3. INSTALL TRANSFORMER GROUNDING PROVISIONS AS REQUIRED PER LOCAL UTILITY SERVICE PROVIDER. INSTALL 3/4"X10' STAINLESS STEEL (IN LIEU OF COPPER CLAD) GROUND ROD DRIVEN 10' INTO GROUND.
4. TRANSFORMER SLAB TO BE INSTALLED AS PER LOCAL UTILITY SERVICE PROVIDER'S REQUIREMENTS. REFER TO ENTERGY PAD MOUNTED TRANSFORMER DETAILS. CALL 1-800-ENTERGY FOR EXACT REQUIREMENTS.
5. NOT USED.
6. INSTALL 300 KCMIL COPPER NEUTRAL TO GROUND BONDING CONDUCTOR.
7. ASCO MTS, 3000A, 480V, 3Ø, 3-POLE, NEMA 1, ELECTRICALLY OPERATED.
8. ASCO SERVICE ENTRANCE RATED, AUTOMATIC, SOLID NEUTRAL, 3-POLE, 3000A, 480V, SHUNT-TRIP, GFM, 100% RATED, 0-60 MIN TIME DELAY, 72E SERIAL COMMUNICATION MODULE, LCD DISPLAY CONTROL INTERFACE, NEMA 1 ENCLOSURES WITH ENERGY REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR ON BREAKER IN ACCORDANCE WITH NEC 70 ARTICLE 240.87.
9. LOCAL CONTROL PANEL. REFER TO EQUIPMENT SPECIFICATION SECTION 11825.
10. TVSS SHALL BE RATED 120 KA PER MODE & 240 KA PER PHASE.
11. EMERGENCY GENERATOR, 1000KW, 3-PHASE , 3 WIRE, 480V, WITH REMOTE E-STOP LOCATED IN MCC. GENERATOR BREAKER SHALL BE FURNISHED WITH ENERGY REDUCING MAINTENANCE SWITCH (ERMS) WITH LOCAL STATUS INDICATOR OR THE GENERATOR BREAKER PROTECTION SHALL HAVE AN INHERIT MAINTENANCE MODE THAT CAN BE USER SELECTED IN ACCORDANCE WITH NEC 70 ARTICLE 240.87.
12. JUNCTION BOX TO TRANSITION FROM PUMP CABLE TO CONDUIT AND CONDUCTORS. NEMA 4X TYPE 316 STAINLESS STEEL HOFFMAN A36H3012SS6LP WITH A36P30SS6 BACK PANEL, OR APPROVED EQUAL. INSTALL DISTRIBUTION BLOCKS, MERSEN MDPB69123 WITH MDPB66020 ADDER BLOCK FOR GROUND.
13. 3000A, TYPE "NW" BREAKER BETWEEN EMERGENCY AND CAM-LOKS CAMLOK ON EMERGENCY, ERMS, 3000A, HUBBLE MALE CONNECTORS.
14. 2000A, 3Ø, 3 WIRE, GROUND, TEMPORARY LOAD BANK CONNECTOR BOX, CAMLOCK MALE RECEPTACLES, NEMA 3R, 316 STAINLESS STEEL. ESL POWER SYSTEMS 3822 SERIES OUTTAP DISTRIBUTION UNIT OR EQUAL.
15. 2 SETS (3 #600AL + #3/0 GROUND IN 4" C).
16. 9 SETS (3 #600 KCMIL AL+ #600 GND., 4"C)
17. POWER METER, SCHNEIDER ELECTRIC MODEL NUMBER PM5563 WITH DISPLAY TO MEASURE/DISPLAY THE FOLLOWING: ENERGY, ACTIVE AND REACTIVE POWER, VOLTAGE (PER PHASE), CURRENT (PER PHASE), FREQUENCY, POWER FACTOR.
18. FURNISH AND INSTALL A SINGLE NETWORK SWITCH AND POWER SUPPLY FOR OWNER CONNECTION OF A SINGLE RJ45 NETWORK CONNECTION. MCC SHALL BE FURNISHED WITH THE MAIN POWER METER AND EACH OF THE TESYS-T MODULES CONNECTED TO THE NETWORK SWITCH.
19. NOT USED.
20. CABLES FURNISHED WITH PUMP.
21. NOT USED.
22. 4#12, 1#12GND, 3/4"C TEMP AND LEAK DETECTION
23. FURNISH CGB CONNECTORS FOR CABLE ENTRY TO BOX.
24. REFERENCE CONTROL DIAGRAM, CABLE AND CONDUIT SCHEDULE FOR RACEWAY AND CONDUCTORS.
25. RAC EXPANSION FITTING W/ 8" TRAVEL.
26. 304 STAINLESS STEEL RACEWAY FROM EXPANSION FITTING TO J-BOX.
27. 6 SETS (3#600 KCMIL AL+ #400 GND., 4"C)
28. #10 CU. GROUND, 1/2" SCHD 80 PVC
29. SCHNEIDER ELECTRIC ATS480-SSRV SERIES, 600V, 3Ø, REDUCED VOLTAGE SOLID STATE STARTER (SOFT START) WITH NORMAL/EMERGENCY BY-PASS SELECTOR SWITCH, NEMA SIZE 6, FVNR STARTER, SHUNT TRIP, H.O.A. SELECTOR SWITCH, RUN(RED)/STOP(GREEN)/TRIP(YELLOW) LIGHTS, ELAPSE TIME METER, 480VAC:24VDC, 350VA CPT, COMPLETE WITH ETHERNET RJ45 COMMUNICATIONS, SEPAM PROTECTIVE RELAY, TEMPERATURE SENSOR MODULES, AND TYSYS T MOTOR MANAGEMENT SYSTEM TO ACCURATELY MONITOR CURRENT, VOLTAGE AND POWER. BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OFF POSITION.
30. 3#6, 1#8GND, 1"C
31. 3#4, 1#8GND, 1 1/4"C
32. 3#2, 1#6GND, 1 1/4"C
33. 100% RATED CIRCUIT BREAKER
34. 9 SETS (3 #600 KCMIL AL + #600 GND., 4"C) AND (3) 1" RACEWAYS FOR GENERATOR START UP CONTROLS.
35. 2#8, 1#10GND, 3/4"C
36. 2#12, 1#12GND, 3/4"C

SPECIFIC NOTES:

NO	REVISION	DATE
	ADDENDUM #1	03/01/2023

BAYOU CANE - PUMP STATION

BAYOU BLACK, TERREBONE PARISH PROJECT ADDRESS

ELECTRICAL RISER DIAGRAM

YKH Consulting LLC
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STATE OF LOUISIANA
CRAIG M. HADAWAY
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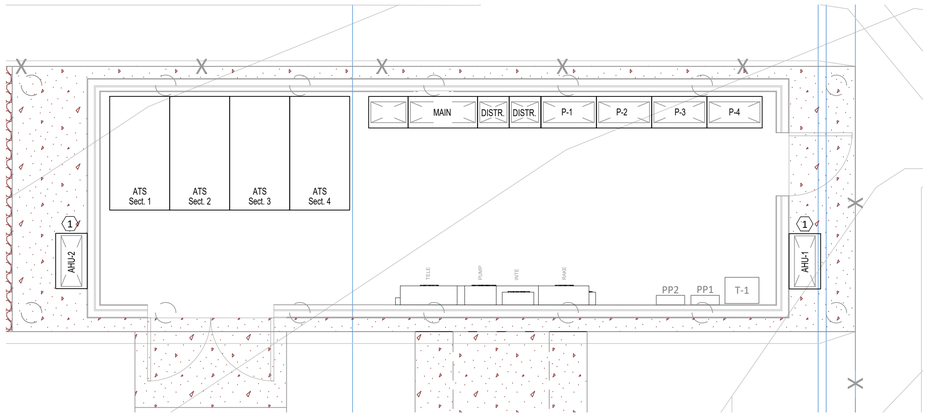
PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
11/20/23

JOB. NO.: 1909201
PHASE: BID SET
DATE: 01/20/23

E2.0



1 CONTROL BUILDING MECHANICAL PLAN
1/4" = 1'-0"

SPECIFIC NOTES:

1. AHU-1 AND AHU-2 SHALL BE PROVIDED UNDER BASE BID.

GENERAL NOTES:

1. ....

NO	REVISION	DATE
ADDENDUM #1		03/01/2023

BAYOU CANE - PUMP STATION

BAYOU BLACK, TERREBONE PARISH PROJECT ADDRESS

CONTROL BUILDING MECHANICAL PLAN

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11/2023
MECHANICAL ENGINEERING

JOB. NO.: 1909201
PHASE: BID SET
DATE: 01/20/23

M1.0

3.12 VERTICAL STAFF GAGE:

A. Plumb and properly secure 2" x 8" to bulkhead wall. Connection shall be approved by ENGINEER prior to installation.

B. Gage shall be graduated from +6.0' to -6.0’ and set to within ± 0.02' NAVD.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. Measurement for the steel sheet pile will be made under the contract price, by square foot, which shall include all required steel sheet piles, weep holes, staff gage, and related items of work. Measurement of structural steel walers and components, tie rod anchor systems will not be included in the Steel Sheet pile pay item and shall be measured under item No. NS-04 Structural Steel.

4.2 PAYMENT:

A. Payment for furnishing and driving new sheet piling shall include all materials, hauling, labor and equipment to complete the work as shown on the drawings, and shall be paid at the contract unit price.

B. Payment for steel sheet pile complete and in-place will be made at the contract unit price under:

Item No.	Pay Item	Pay Unit
803-03-00100	Steel Sheet Pile Wall (NZ-14)	Square Foot

END OF SECTION

3. Testing
    a. The ENGINEER has the option to perform nondestructive tests on 5 percent of the installed bolts to verify compliance with pre-load bolt tension requirements. The nondestructive testing will be done in-place using an ultrasonic measuring device or any other device capable of determining in-place pre-load bolt tension. The test locations shall be selected by ENGINEER. If more than 10 percent of the bolts tested contain defects identified by testing, then all bolts used from the batch from which the tested bolts were taken, shall be tested. Retest new bolts after installation.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. There will be no field measurement for the work associated with this specification section. All quantities shall be measured and calculated in accordance with the sizes and dimensions shown on the plans, unless changes to the plans are made by the Engineer. Measurement for the work in this section is based on a volumetric calculation for required structural steel members using 3-Dimensional Computer Aided Design models. All measurements for steel will be based on each member's properties in accordance with the latest AISC steel design manual. All volumetric calculations will be converted to pounds using a unit weight of steel of 490 pounds per cubic foot.

B. Measurement of Structural Steel (Galvanized) shall be by pound of steel successfully installed, for all labor, materials, delivery, installation, and related work including but not limited to discharge pipe support saddles, chain guard supports, and access hatch frame. No field measurements will be made and quantities shall be based on the member sizes and dimensions as shown on the plans.

C. Measurement of Structural Steel (Painted-Coal Tar Epoxy) shall be by pound of steel successfully installed, for all labor, materials, delivery, installation, and related work including but not limited to, sheet pile caps, pipe pile caps and gusset plates, walers and brackets, tieback anchor boxes, plate washers, miscellaneous steel gusset plates, and connections associated with the steel sheet pile walls (including HSS struts), steel pipe piles, and tiebacks. No field measurements will be made and quantities shall be based on the member sizes and dimensions as shown on the plans.

4.2 PAYMENT:

A. Payment will be made at the contract unit price and shall be full compensation for furnishing and installing of Structural Steel, which includes all labor, equipment and tools necessary to complete this work and related items.

B. Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-03	Structural Steel (Galvanized)	Pound
NS-04	Structural Steel (Painted Coal-Tar Epoxy)	Pound

END OF SECTION

SECTION TS-12
DISCHARGE PIPE SYSTEM

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. This information is intended to supplement Louisiana Department of Transportation and Development (DOTD) Standard Specifications for Roads and Bridges, most recent edition, which is incorporated by reference. In the event that a conflict between any provision of these specifications and any reference specification should arise, the most stringent provision shall apply.

B. Drawings and General Conditions and Supplementary Conditions of the Contract, including General and Special Provisions, and Division I Specification Parts, apply to work of this section.

1.2 DESCRIPTION

A. This work consists of furnishing and installing steel discharge piping and diffusers in accordance with these specifications and in conformance with the location shown on the plans or established by the ENGINEER. Discharge pipe shall be coated on the inside and outside along the entire length of the pipe.

1.3 SUBMITTALS

A. Shop Drawings: Shop drawings covering steel details shall be submitted for approval. Elements of fabricated items inadvertently omitted from the drawings shall be detailed and indicated on the shop drawings.

B. Schedule of Welding Procedures: A complete schedule of welding procedures shall be submitted and approved before fabrication is commenced.

C. Certificates: Certificates for material tests, painting, examinations, and welding procedure and operator qualifications shall be submitted for approval as specified.

PART 2 PRODUCTS

2.1 STEEL PIPE

A. Steel discharge piping and fittings shall be a minimum 0.5" wall thickness. Discharge piping shall be fabricated pipe as defined in AWWA specification C-200 and shall be manufactured using steel in compliance with ASTM Designation A-252 or ASTM A53 or approved equal. Spiral welded pipe is not allowed.

B. Discharge pipe shall be flanged on pump can end conforming to AWWA C207, Class B standards or approved equal. Flanges shall match drill hole pattern of pump flange. Flanges shall be furnished with all required flange bolts, nuts, and fiber-reinforced neoprene rubber flange gaskets.

C. All bolts, nuts, washers and hardware shall be 316 stainless steel.

D. Specified pipe shall be measured to outside diameter.

2.2 STEEL PIPE FITTINGS

A. All discharge pipe fittings shall have a 0.5” wall thickness and shall be manufactured in accordance with ASME B16.9 2018 or latest revision, and ASME B16.28 2018 or latest revision, where applicable.

B. All elbow fittings shall be considered of the Long Radius elbow types and butt-welded.

C. All fittings shall be coated in accordance with the priming and coating requirements set forth herein, unless otherwise directed by the ENGINEER.

2.3 PRIMING AND COATING REQUIREMENTS

A. All interior and exterior metal surfaces of discharge piping furnished and installed under this item shall be thoroughly cleaned by blast cleaning in accordance with SSPC-SP5 white metal blast cleaning method. All weld splatter, slag and other undesirable materials shall be thoroughly removed and all sharp edges ground smooth prior to blast cleaning.

B. All interior and exterior surfaces and connections shall be coated with the following or approved equal:

1st Coat TNEMEC Series	90-97 TNEME-Zinc	2.5 – 3.5 Dry Mils
2nd Coat TNEMEC Series	66 H.B. Epoxoline	2.0 – 6.0 Dry Mils
3rd Coat TNEMEC Series	1074 Endura – Shield	3.0 – 5.0 Dry Mils

OR

1st CARBOZINC 859	3.0 – 5.0 Mils
2nd CARBOGUARD 893	3.0 – 6.0 Mils
3rd CARBOTHANE 134 HG	2.0 – 3.0 Mils

C. Final color coat shall be black or as otherwise directed by the ENGINEER. The CONTRACTOR shall submit a color wheel to the ENGINEER for coat color. All coatings shall be applied in strict accordance with manufacturer's instructions.

PART 3 EXECUTION

3.1 CONSTRUCTION REQUIREMENTS:

A. All work performed under this item shall confirm to the applicable requirements of the Louisiana Standard Specifications for Roads and Bridges (DOTD), latest edition, where applicable.

B. Joints in discharge piping shall be full penetration welded butt joint of 1/2" thickness.

C. All welding shall confirm to the American Welding Society Specifications – Structural Welding Code and the Louisiana Department of Transportation & Development Standard Specifications Section 809.

D. Specified pipe size shall be measured to outside diameter and shall be in accordance with the Drawings.

3.2 PIPING INSTALLATION

A. Piping shall be run as straight as practical along the alignment shown on the contract drawings and with a minimum of joints. Piping and appurtenances shall be installed in conformance with reviewed shop drawings, manufacturer's instructions and ASME B31.3. Piping shall be installed without springing or forcing the pipe. Welding shall be performed in accordance with Section TS-07 Structural Steel.

B. Couplings, Adapters And Service Saddles

1. Pipes shall be thoroughly cleaned of oil, scale, rust, and dirt in order to provide a clean seat for gaskets. Gaskets shall be wiped clean prior to installation. Flexible couplings and flanged coupling

adapter gaskets shall be lubricated with soapy water or the manufacturer's standard lubricant before installation on the pipe ends. Couplings, service saddles, and anchor studs shall be installed in accordance with manufacturer's instructions. Bolts shall be tightened progressively, drawing up bolts on opposite sides a little at a time until all bolts have a uniform tightness. Torque-limiting wrenches shall be used to tighten bolts.

C. Pipe Flanges
   1. Pipe flanges shall be set level, plumb, and aligned. Flanged fittings shall be installed true and perpendicular to the axis of the pipe. The bolt holes shall be concentric to the centerline of the pipe and shall straddle the vertical centerline of the pipe.
   2. Pipe flange at pump shall match pipe flange provided by pump manufacturer at discharge level.
   3. Pipe flange at check valve shall accommodate check valve bolt and flange configuration.

3.3 FIELD QUALITY CONTROL

A. Hydrostatic Testing
   1. Piping systems shall be tested under normal service conditions to demonstrate compliance. Water shall be used as the hydrostatic test fluid.
   2. The hydrostatic test pressure shall be maintained continuously for 30 minutes minimum and for such additional time necessary to conduct examinations for leakage. All joints and connections shall be examined for leakage. The piping system, exclusive of localized instances at the pump or valve packing, shall show no visual evidence of leaking. Correct visible leakage and retest. Unless otherwise directed by the ENGINEER, the piping system shall be drained water after leaks are repaired.
   3. Time for Making Test
      a. Tests shall be conducted after the piping has been completely installed, including all supports and inspected for proper installation.

B. Pipe Leakage Tests
   1. Should any test disclose leakage, the leaks shall be located and repaired until the leakage is within the specified allowance, without additional cost.

3.4 FINAL CLEANING

A. Interim Cleaning
   1. Prevent the accumulation of Held rod, weld spatter, pipe cuttings and filings, gravel, cleaning rags, and other foreign material within piping sections during fabrication. The piping shall be examined to assure removal of these and other foreign objects prior to assembly and installation.

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. Steel discharge piping and diffusers shall not be measured for payment and the contract unit price shall include discharge piping and diffusers, fabrication, bolts, flanges, coatings and related items of work required for the complete installation of the pipe discharge systems.

4.2 PAYMENT

A. Payment will be made at the contract unit price and shall be full compensation for furnishing and installing of Discharge Pipe System, which includes all labor, equipment and tools necessary to complete this work and related items. Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-09	Discharge Pipe System	Each

END OF SECTION