



# 2024 CPRA Coastal Industry Week

## Coastal Industry Briefing and Construction Project Forecast – Partner Led

March 26<sup>th</sup>, 2024  
2:00pm – 3:30pm CST

### *Virtual Meeting*

Zoom URL: <https://us06web.zoom.us/j/82284982515>  
Meeting ID: 822 8498 2515  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836

- I. Opening Remarks**
- II. Upcoming Risk Reduction Projects to be Bid for Construction (2:00 pm – 2:45 pm)**
  - a. Upcoming TLCD Projects: *Reggie Dupre, TLCD; David Boudreaux, Delta Coast Consultants, LLC*
  - b. Upcoming NLLD Projects: *Arthur Ostheimer Jr., North Lafourche Levee District*
  - c. Upcoming SLLD Projects: *Joe Picciola, Picciola & Associates, Inc.; Neil Angelette, Angelette Design, LLC; John Plaisance, GIS Engineering, LLC*
  - d. Upcoming LAILD Tidal Flood Risk Reduction Projects: *Miles Garriott, Evans-Graves Eng., Inc.*
- III. Upcoming Restoration Projects to be Bid for Construction (2:45 pm – 3:20 pm)**
  - a. ME-0032 South Grand Chenier Baker Tract Marsh Creation Project: *Breese Barnes, NRCS*
  - b. Cameron Gulf Shoreline Protection Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - c. Mermentau Basin Inundation Relief Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - d. Upcoming Vermilion Parish Projects: *Nick Sonnier, Sellers & Associates, Inc.*
  - e. Grand Bayou Freshwater Reintroduction: *Kevin Dezarn, GIS Engineering, LLC*
  - f. Catfish Lake Living Shoreline – Lafourche Parish: *Tyler Ortego, Natrx; Nick LeBlanc, Danos*
  - g. Upper Barataria Terracing: *Matt Salmon, Freese & Nichols, Inc.*
- IV. Other Project Presentations (3:20 pm – 3:30 pm)**
  - a. Upcoming Ducks Unlimited Projects: *Brad Lambert, Ducks Unlimited*
  - b. Sunset Park Restoration Project: *Andrew Woodroof, Digital Engineering*
  - c. Fourchon Beach Maintenance Restoration and Protection Project: *Bryce Autin, Greater Lafourche Port Commission*
- V. Questions and Discussion**
- VI. Adjourn**



Coastal Protection and  
Restoration Authority of Louisiana

# Morganza to the Gulf Reach 3B & Morganza to the Gulf Reach 1 Project Update

North Lafourche Conservation, Levee & Drainage District

Arthur Ostheimer,  
NLLD Program/Project Manager  
Dwayne Bourgeois,  
CPRA Board Member & NLLD Executive Director  
March 26, 2024



**committed to our coast**

Coastal Protection and Restoration  
Authority of Louisiana

# Presentation Overview

**General Project Information**

**Project Layout**

**Typical Sections**

**Notable Quantities**

**Schedule**





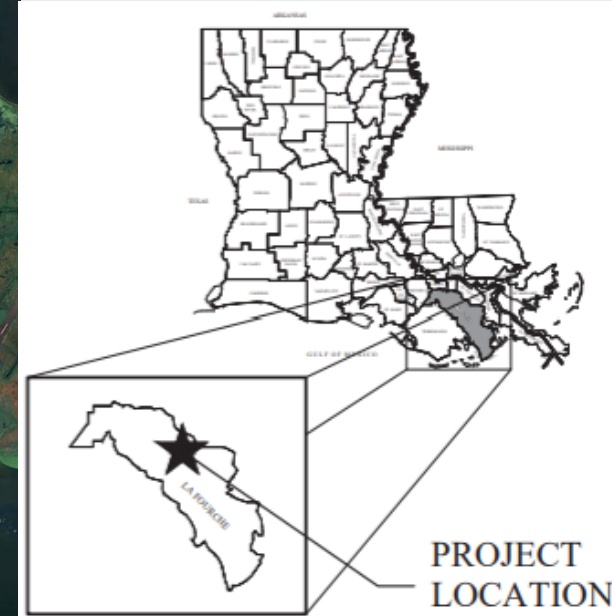
# MORGANZA TO THE GULF AND LAROSE TO GOLDEN MEADOW FLOOD RISK REDUCTION PROJECTS

## Reach 3B



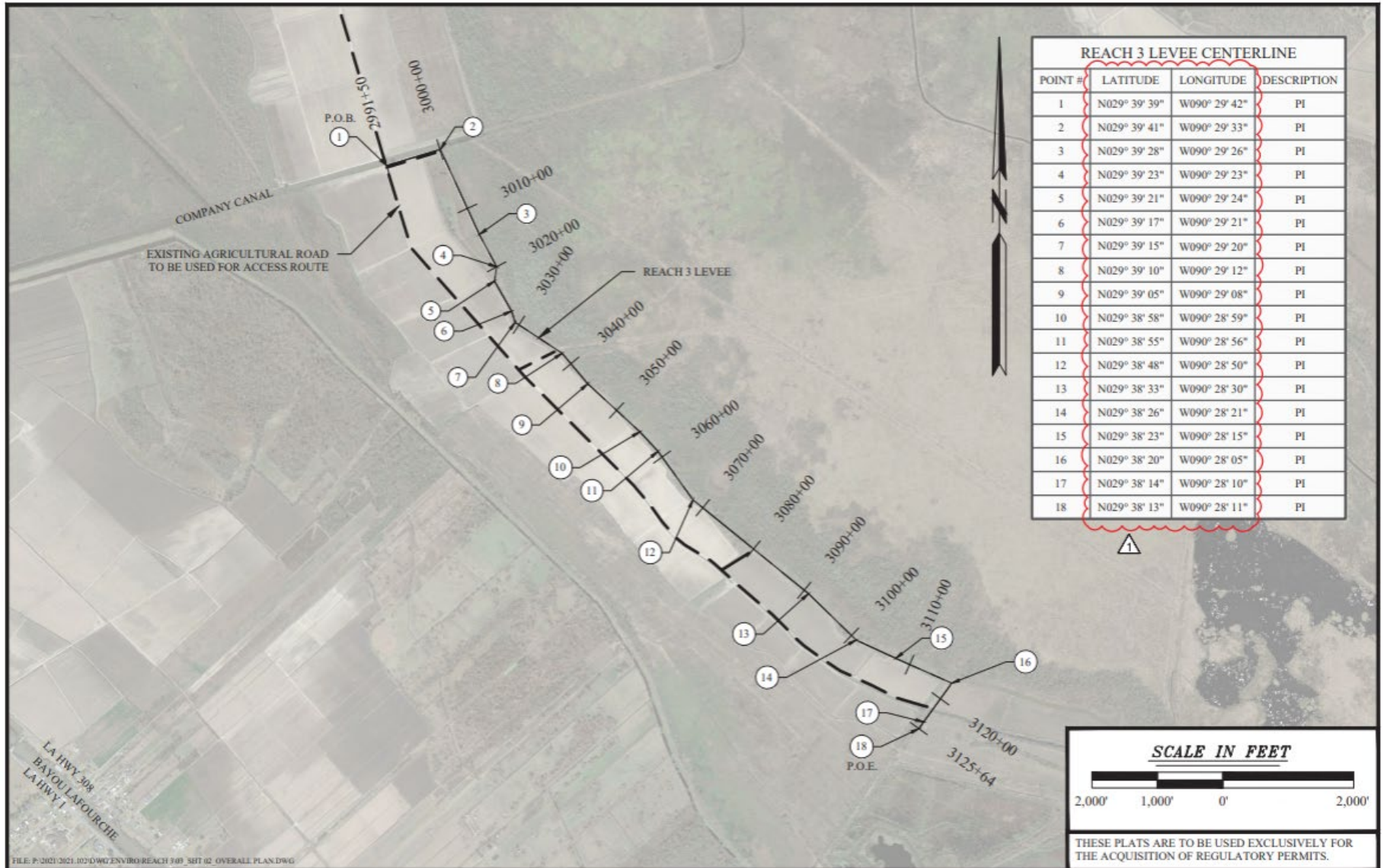


# Reach 3B General Project Information



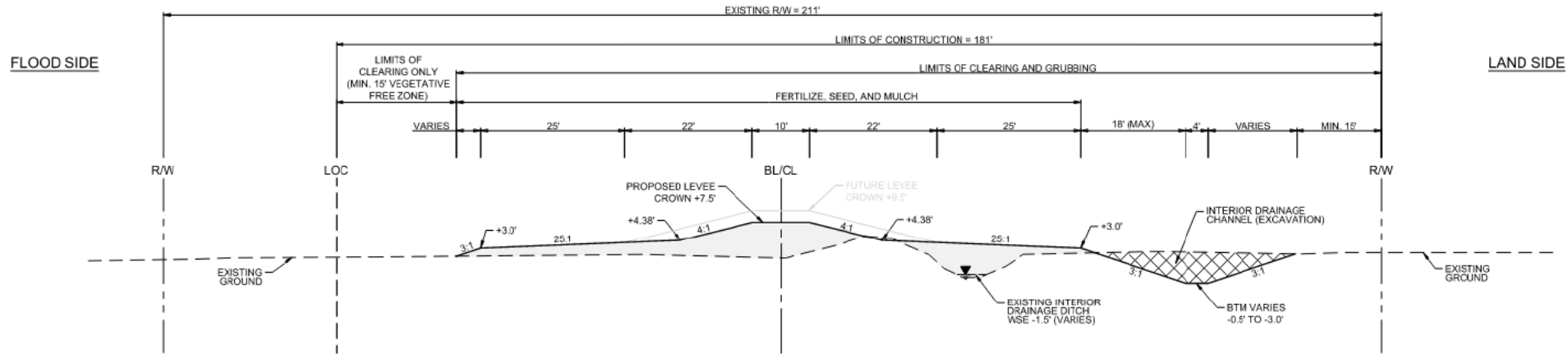
INFO	DESCRIPTION
LOCATION	Lockport - Lafourche Parish
FUNDING	CPRA/GOMESA
PROJECT TYPE	Levee construction and improvements

# Reach 3B Project Layout





# Reach 3B Typical Section



2 TYPICAL LEVEL SECTION  
B/L STA 3020+82 TO STA 3027+57

# Reach 3B Construction Cost Estimate

Item No.	Item Description	Unit	Quantity	Unit Cost	3B Total
1	Mobilization & Demobilization	LS	1	\$350,000.00	\$350,000
2	Surveying	LS	1	\$125,000.00	\$125,000
3	Temporary Silt Fencing	LF	24,500	\$4.00	\$98,000
4	Clearing and Grubbing	AC	50	\$7,500	\$375,000
5	Removal of Structures and Obstructions	LS	1	\$10,000.00	\$10,000
6	Levee Embankment (Compacted Fill, Contractor-Furnished)	CY	161,800	\$35.00	\$5,663,000
7	Excavation	CY	25,500	\$12.00	\$306,000
8	Corrugated Metal Pipe (24")	LF	787	\$225.00	\$177,075
9	Corrugated Metal Pipe (36")	LF	149	\$300.00	\$44,700
10	Turf Establishment and Maintenance	AC	32	\$8,500.00	\$272,000
11	Aggregate Surfacing (New)	TN	8,150	\$75.00	\$611,250
12	Aggregate Surfacing (Maintenance)	TN	2,760	\$75.00	\$207,000
13	Geotextile Separator Fabric	SY	21,200	\$4.00	\$84,800

**TOTAL ESTIMATE**

**\$9,156,208**

Construction Subtotal

\$8,323,825

Contingency

\$832,383



# Reach 3B Anticipated Schedule

Design Phase Completion: August 2024

Landrights/ Servitude Agreements: Finalized

Advertisement: Fall 2024

Construction Duration: 270 days



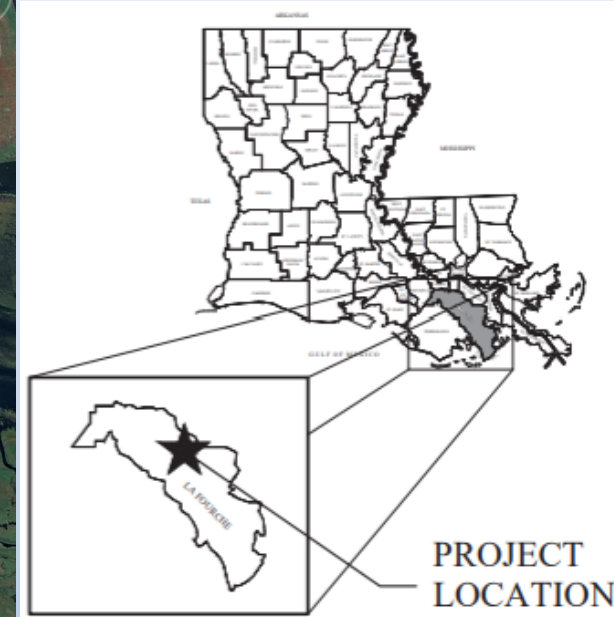
# MORGANZA TO THE GULF AND LAROSE TO GOLDEN MEADOW FLOOD RISK REDUCTION PROJECTS

## Reach 1





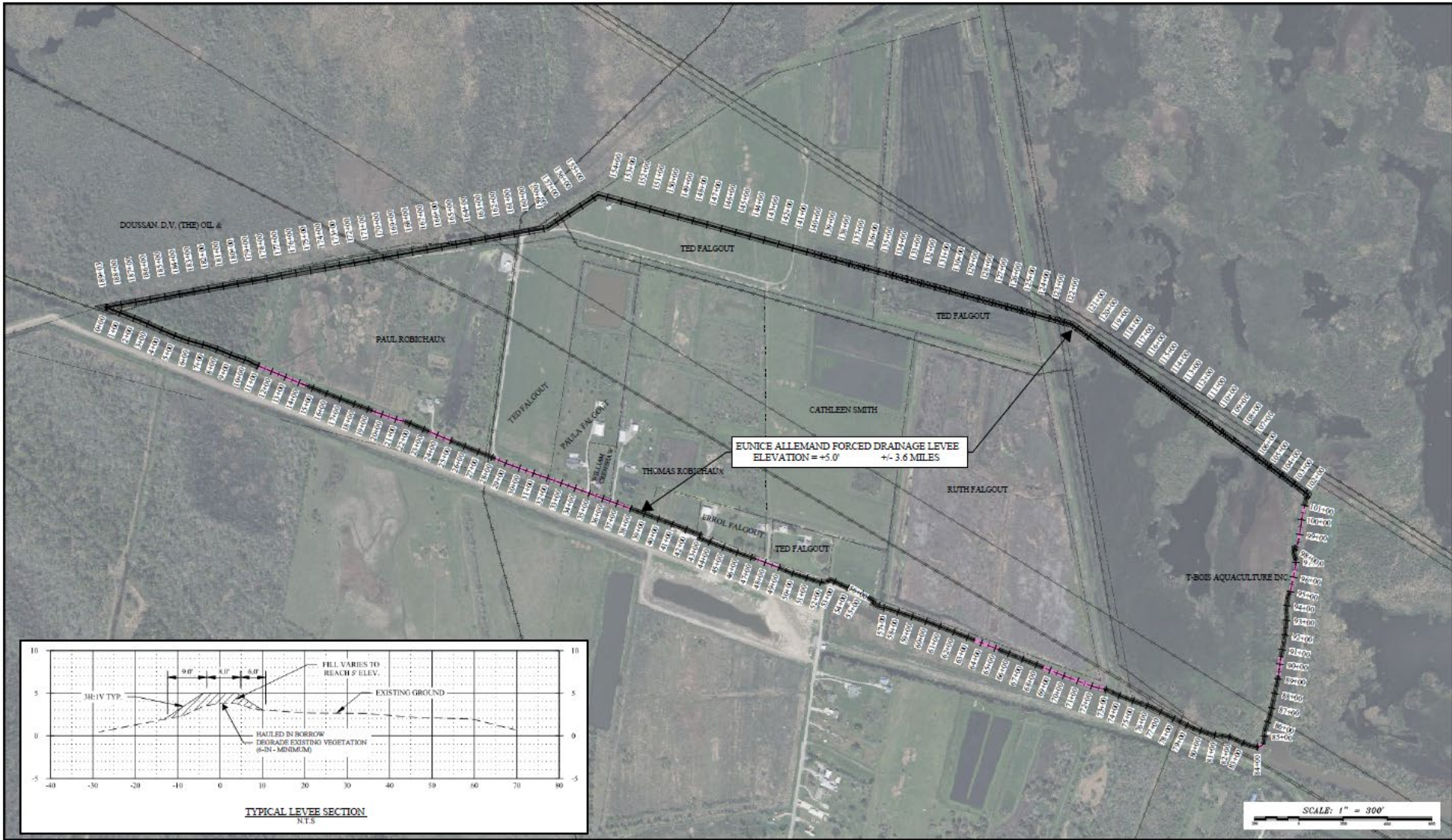
# Reach 1 General Project Information



INFO	DESCRIPTION
LOCATION	Larose - Lafourche Parish
FUNDING	CPRA/GOMESA
PROJECT TYPE	Levee construction and improvements

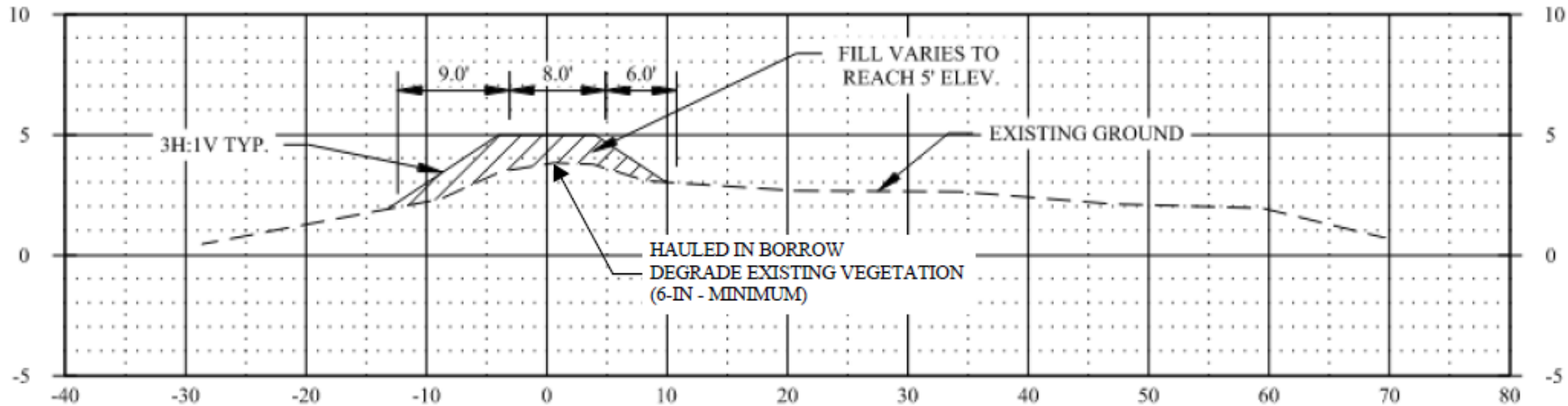


# Reach 1 Project Layout





# Reach 1 Typical Section



TYPICAL LEVEE SECTION  
N.T.S

# Reach 1 Construction Cost Estimate

Description	Quantity	Unit	Unit Price	Total
Mobilization and Demobilization	1	Lump Sum	\$ 150,000.00	\$ 150,000.00
Construction Layout	1	Lump Sum	\$ 50,000.00	\$ 50,000.00
<b>Blackwater Canal Segment 10+00 to 73+00</b>				
Clearing and Grubbing	1	Lump Sum	\$ 5,000.00	\$ 5,000.00
Excavation and Embankment	7800	Cubic Yards	\$ 20.00	\$ 156,000.00
Aggregate Surface Course	160	Cubic Yards	\$ 75.00	\$ 12,000.00
Remove Asphalt Roadway Surface	1000	Square Yards	\$ 10.00	\$ 10,000.00
Remove & Replace Chainlink Fence	80	Linear Feet	\$ 20.00	\$ 1,600.00
Seeding	100	Pound	\$ 10.00	\$ 1,000.00
Fertilizer	2500	Pound	\$ 2.00	\$ 5,000.00
<b>Haul Road Segment 73+00 to 102+00</b>				
Clearing and Grubbing	1	Lump Sum	\$ 5,000.00	\$ 5,000.00
Excavation and Embankment	5265	Cubic Yards	\$ 35.00	\$ 184,275.00
Culverts	1	Lump Sum	\$ 20,000.00	\$ 20,000.00
Seeding	45	Pound	\$ 10.00	\$ 450.00
Fertilizer	1500	Pound	\$ 2.00	\$ 3,000.00
<b>Remaining Segment 102+00 to 189+03, 0+00 to 10+00</b>				
Clearing and Grubbing	1	Lump Sum	\$ 87,500.00	\$ 87,500.00
Excavation and Embankment	109305	Cubic Yards	\$ 35.00	\$ 3,825,675.00
Culverts	1	Lump Sum	\$ 50,000.00	\$ 50,000.00
Seeding	1050	Pound	\$ 10.00	\$ 10,500.00
Fertilizer	35000	Pound	\$ 2.00	\$ 70,000.00
Address Pipeline Conflicts	1	Lump Sum	\$ 100,000.00	\$ 100,000.00
Mitigation	1	Lump Sum	\$ 250,000.00	\$ 250,000.00

<b>TOTAL ESTIMATE</b>	<b>\$5,926,400</b>
Construction & Mitigation Subtotal	\$4,997,000
Contingency	\$929,400

# Reach 1 Anticipated Schedule

Design Phase Completion: September 2024

Landrights/ Servitude Agreements: July 2024

Advertisement: November 2024

Construction Duration: 180 days



# South Lafourche Levee District Construction Project Forecast

Nic Matherne, CFM – General Manager

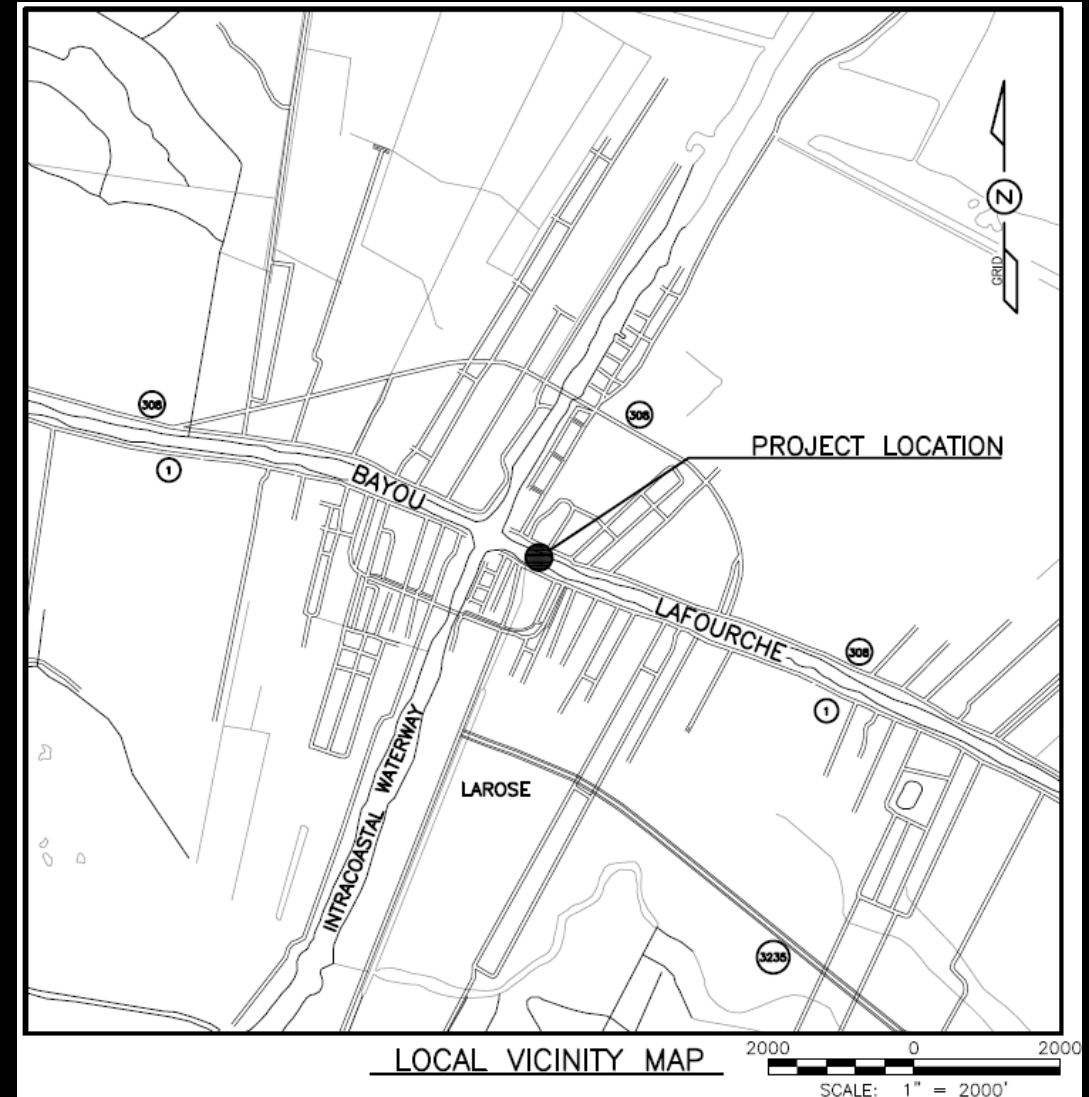






# Ted Gisclair Lock

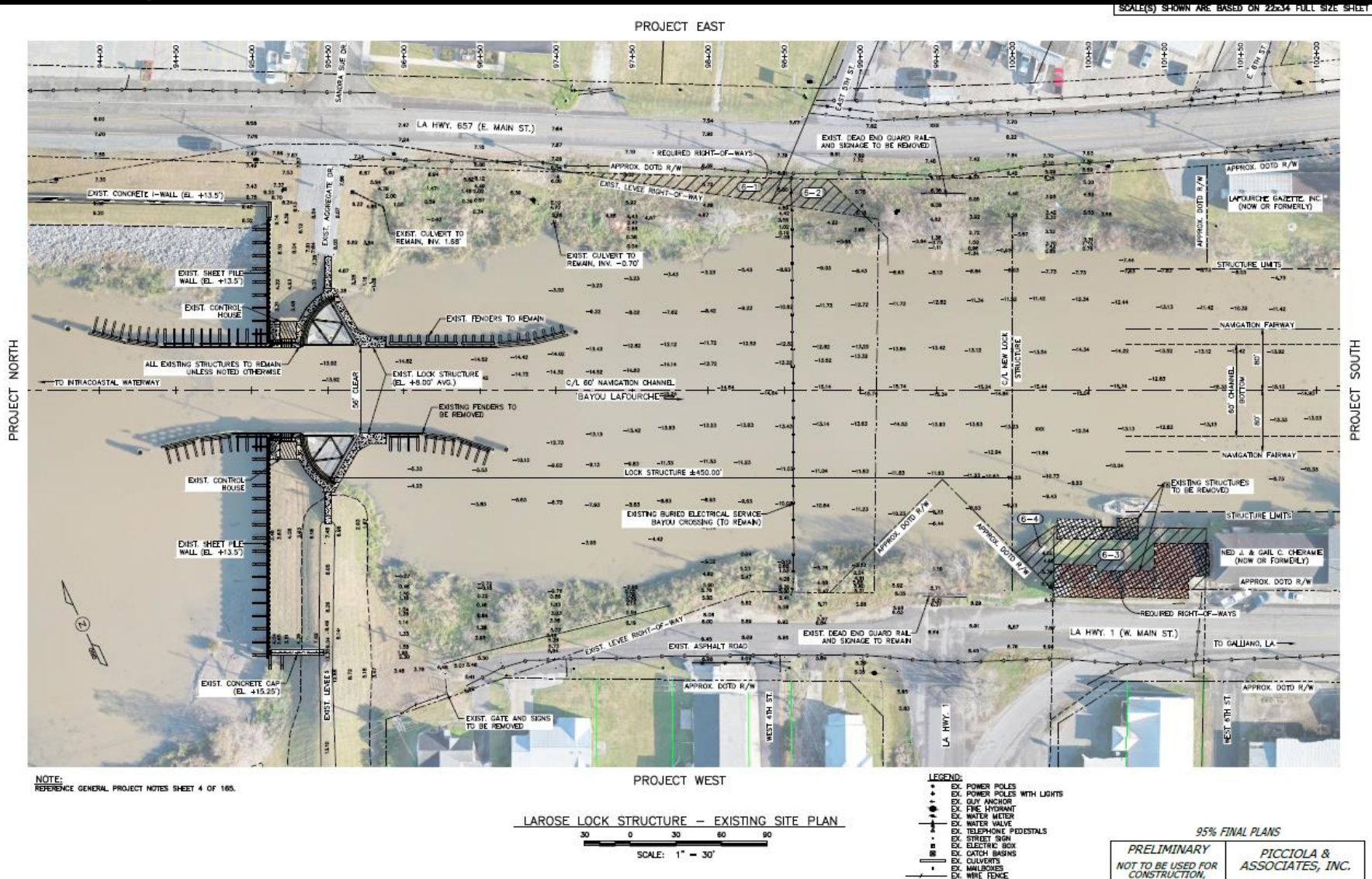
- Installation of a Steel Barge Floating Gate Structure to form a Lock on Bayou Lafourche in Larose, LA





# Ted Gisclair Lock

## Existing Site Plan

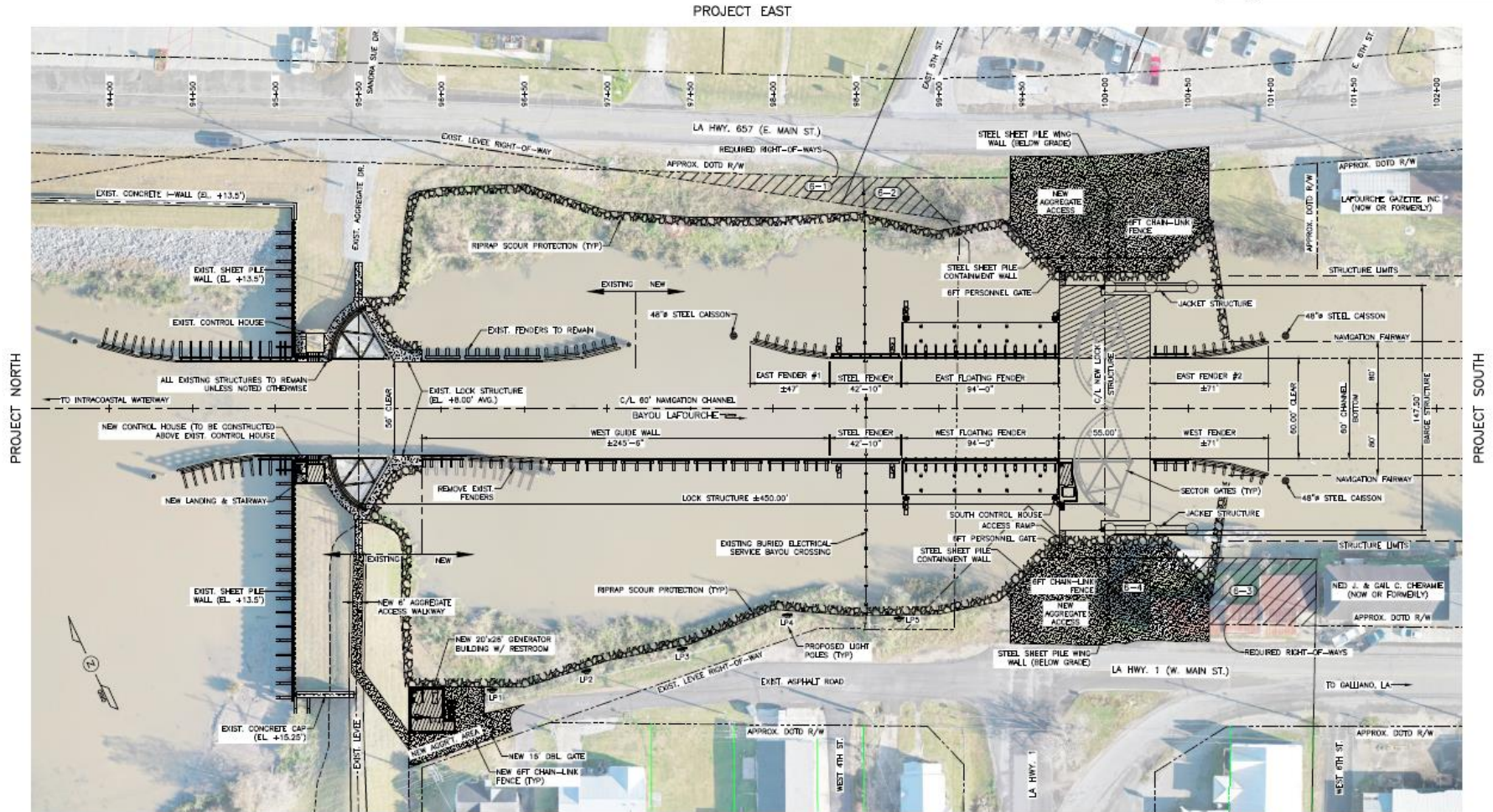






# Ted Gisclair Lock Proposed Site Plan

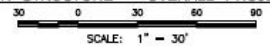
SCALE(S) SHOWN ARE BASED ON 22x34 FULL SIZE SHEET



NOTE:  
REFERENCE GENERAL PROJECT NOTES SHEET 4 OF 165.

PROJECT WEST

LAROSE LOCK STRUCTURE – OVERALL PROJECT SITE PLAN



95% FINAL PLANS

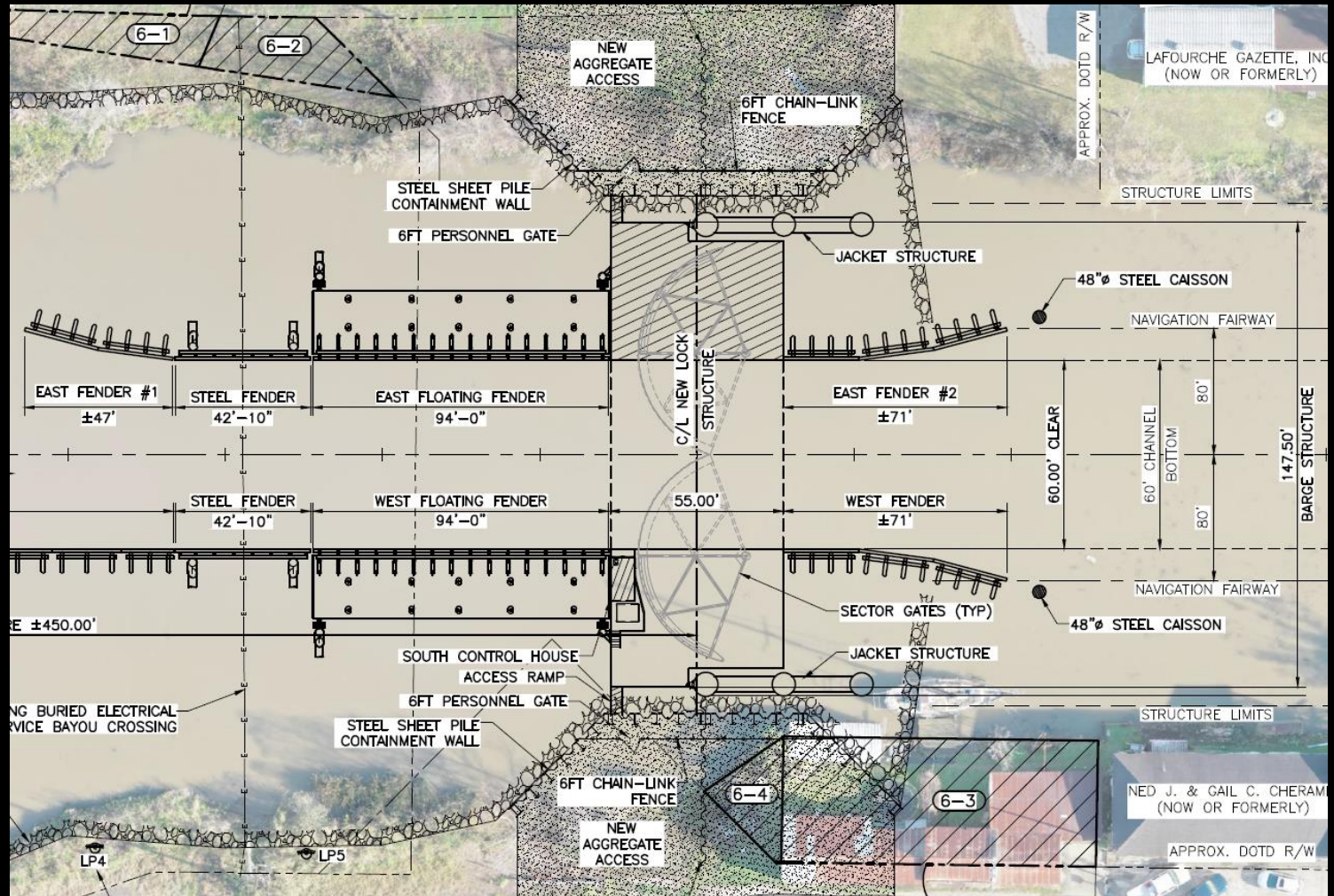
PRELIMINARY  
NOT TO BE USED FOR  
PICCIOLA & ASSOCIATES, INC.





# Ted Gisclair Lock Specifications

- Sector Gate w/60' Clear Opening to +5' EL (sill at -13')
- 245' Guide wall from existing gate
- Channel Dredging & Riprap Placement
- Control House, Electrical, Access, and Security Fencing



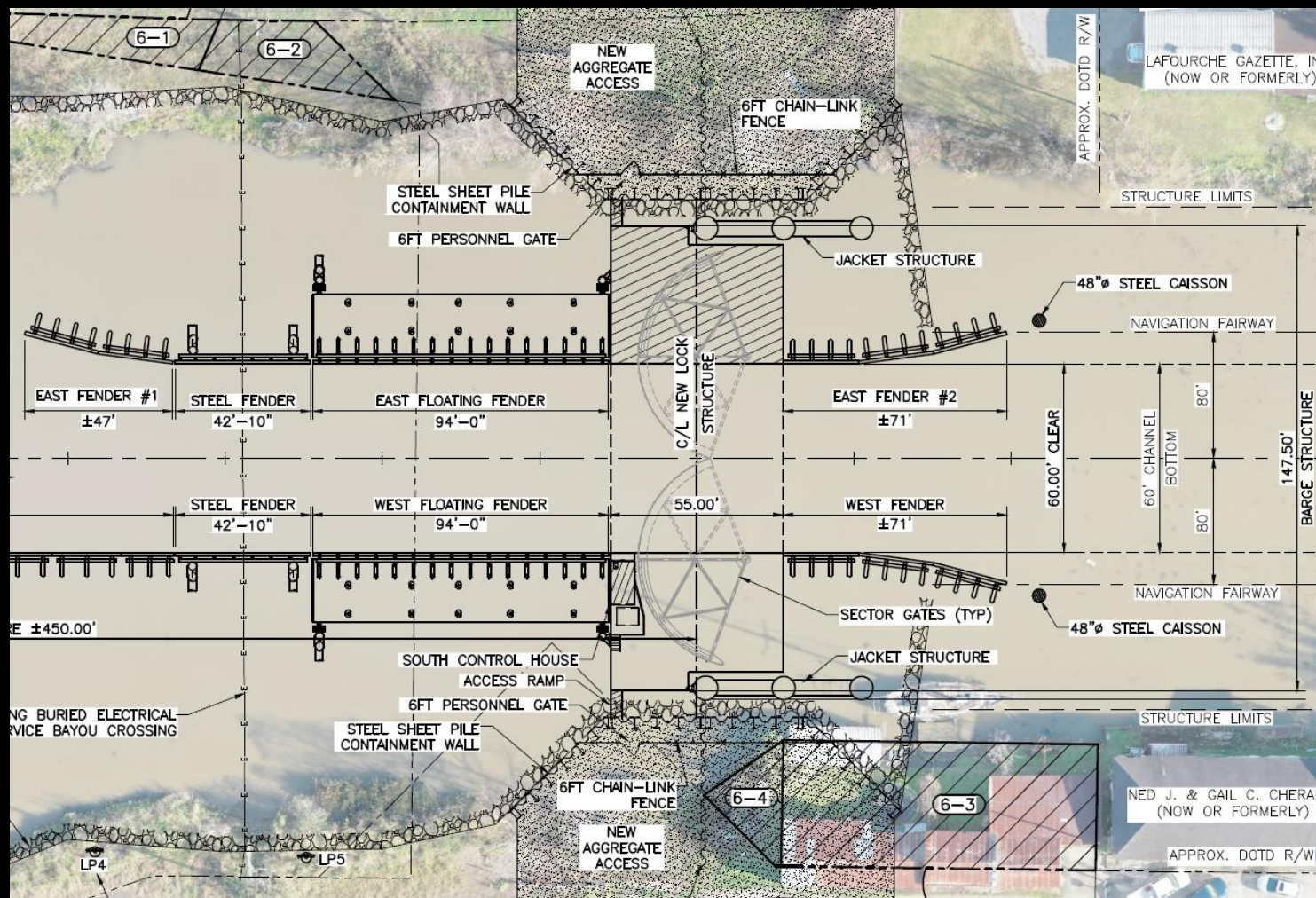




# Ted Gisclair Lock

## Status & Cost Estimate

- Design: Complete
- Permitting: Complete
- Land Rights: In Progress
- Construction Duration: 365 Days
- Cost Estimate \$30 million
- Advertisement: Fall 2024





# Ted Gisclair Lock Contacts



Picciola & Associates, Inc.

- Nicholas Matherne, [nmatherne@sllld.org](mailto:nmatherne@sllld.org)  
(985) 632-7554
- Picciola & Associates:  
(985) 632-5786
- Joseph C. Picciola, II, P.E., P.L.S.,  
[joep@picciola.com](mailto:joep@picciola.com)
- Ben Hodson, General Manager,  
[ben@picciola.com](mailto:ben@picciola.com)
- Marco J. Picciola, III, P.E., [marc@picciola.com](mailto:marc@picciola.com)





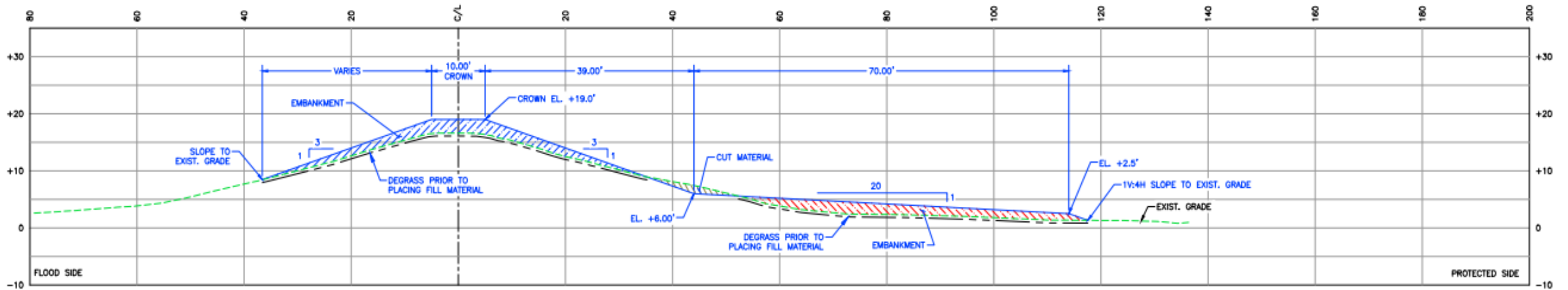
# Section A-East Levee Improvements

- Placement of earthen embankment to raise levee 3'





# Section A-East Levee Improvements Specifications



TYPICAL LEVEE DESIGN SECTION (ALTERNATE 1)  
SCALE: 1" = 10'-0"

## Project Features:

- Existing Crown Elevation: +16.0 Ft NGVD
- Proposed Crown Elevation: +19.0 Ft NGVD
- Total Yards of Material: 209,277
- Proposed Crown Width: 10.0 Ft
- Protected Side Berm Improvements
- 4.73 miles of Levee Improvements

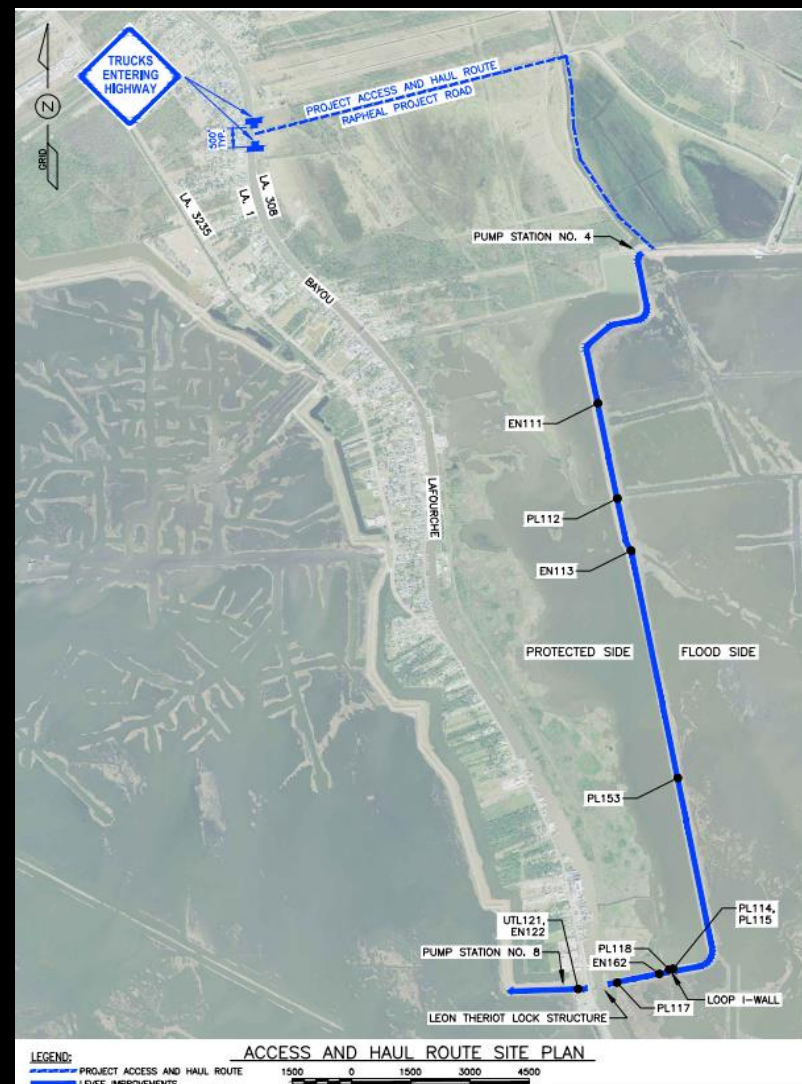




# Section A-East Levee Improvements

## Status & Cost Estimate

- Design: 90% Complete
- Permitting: Complete
- Land Rights: In Progress
- Construction Duration: 365 Days
- Cost Estimate \$7 million
- Advertisement: Fall 2024







# Section A-East Levee Improvements

## Contacts



Picciola & Associates, Inc.

- Nicholas Matherne, [nmatherne@sllld.org](mailto:nmatherne@sllld.org)  
(985) 632-7554
- Picciola & Associates:  
(985) 632-5786
- Joseph C. Picciola, II, P.E., P.L.S.,  
[joep@picciola.com](mailto:joep@picciola.com)
- Ben Hodson, General Manager,  
[ben@picciola.com](mailto:ben@picciola.com)
- Marco J. Picciola, III, P.E., [marc@picciola.com](mailto:marc@picciola.com)



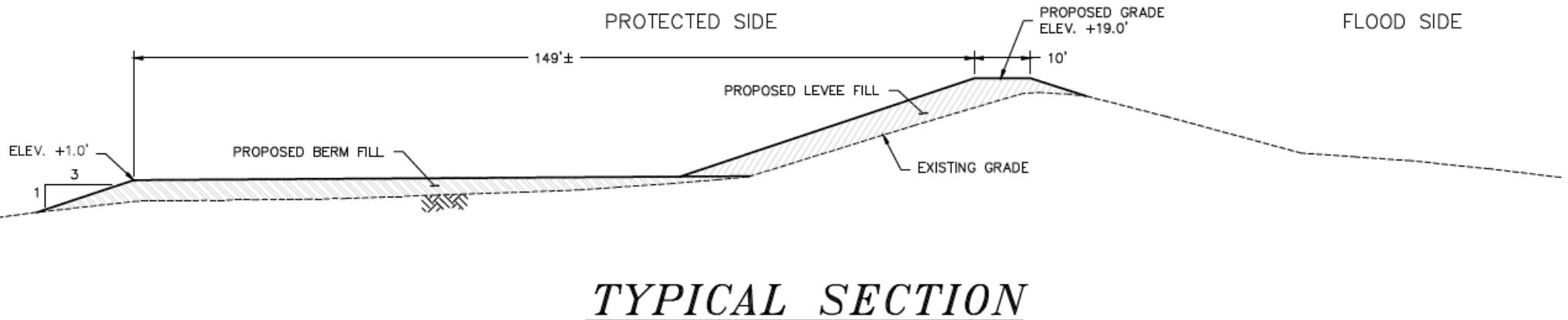
# Section A-West Levee Improvements

- Placement of earthen embankment to raise levee 3'





# Section A-West Levee Improvements Specifications



## Project Features:

- Existing Crown Elevation: +16.0 Ft NGVD
- Proposed Crown Elevation: +19.0 Ft NGVD
- Total Yards of Material: 180,000
- Proposed Crown Width: 10.0 Ft
- Protected Side Berm Improvements
- 2.42 miles of Levee Improvements





# Section A-West Levee Improvements

## Status & Cost Estimate

- Design: 60% Complete
- Permitting: In Progress
- Construction Duration: 365 Days
- Cost Estimate \$4.3 million
- Advertisement: Fall 2024





# Section A-West Levee Improvements

## Contacts



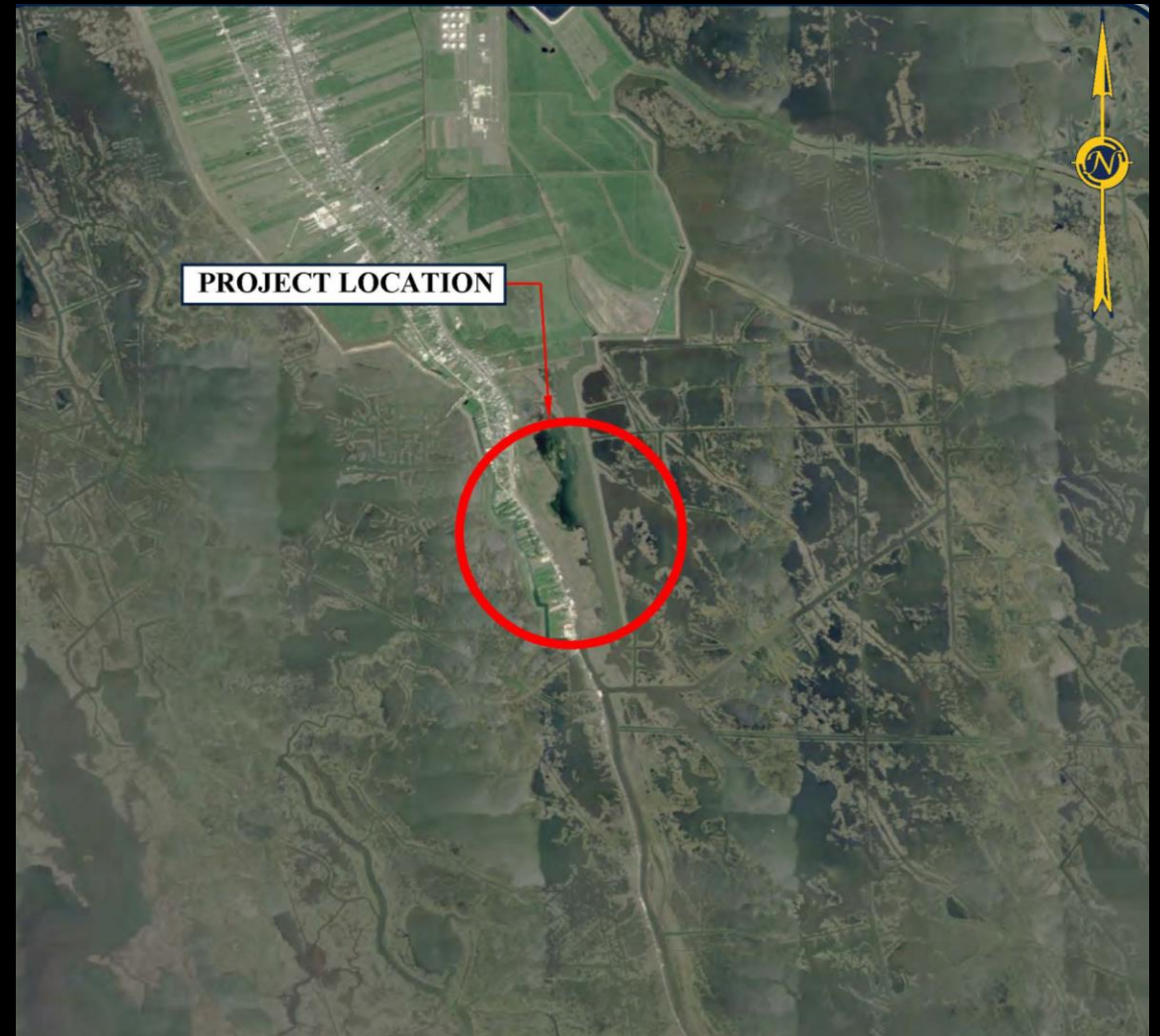
- Nicholas Matherne,  
nmatherne@sllid.org  
(985) 632-7554
- Angelette Design  
(985) 798-7700
- Neil Angelette, P.E., P.L.S.,  
neil@angelette.com





# A-East Bayou Water Retention

- Construction of approximately 19,200 LF of retention levee alignment to EL +3.0 ft
- Installation of two tidal exchange structures
- Construction of 2,300 LF of aggregate roadway to EL +2.0 ft
- Anticipated Bid Advertisement: Q2 – FY24







**ENGINEERING** LLC

Coastal & Infrastructure  
 197 Elysian Drive  
 Houma, LA 70363  
 O: (985) 219-1000 | F: (985) 473-7014  
 SURVEYING • PLANNING • ENVIRONMENTAL CONSULTING

**REVISIONS**

No.	Description	Date

**FINAL DESIGN**  
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 PERMITTING, RECORDING, OR CONVEYANCE UNLESS APPROVED BY THE  
 OWNER FOR THE PURPOSE OF A PERMIT.  
 JOHN FLAMMERS, P.E.  
 LA LICENSE NO. 24018

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 ONE HALF SIZE

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 DISCLOSURE TO ANY THIRD PARTY.

**SOUTH LAFOURCHE  
 LEVEE DISTRICT**

**A-EAST  
 BAYOU WATER RETENTION**

**ACCESS ROUTES**

Project number	30130-1251/1252
Date	JANUARY 2021
Designed by	J.P.
Drawn by	TPC
Checked by	LLB
Checked by	SDP
Plot Date	January 26, 2021

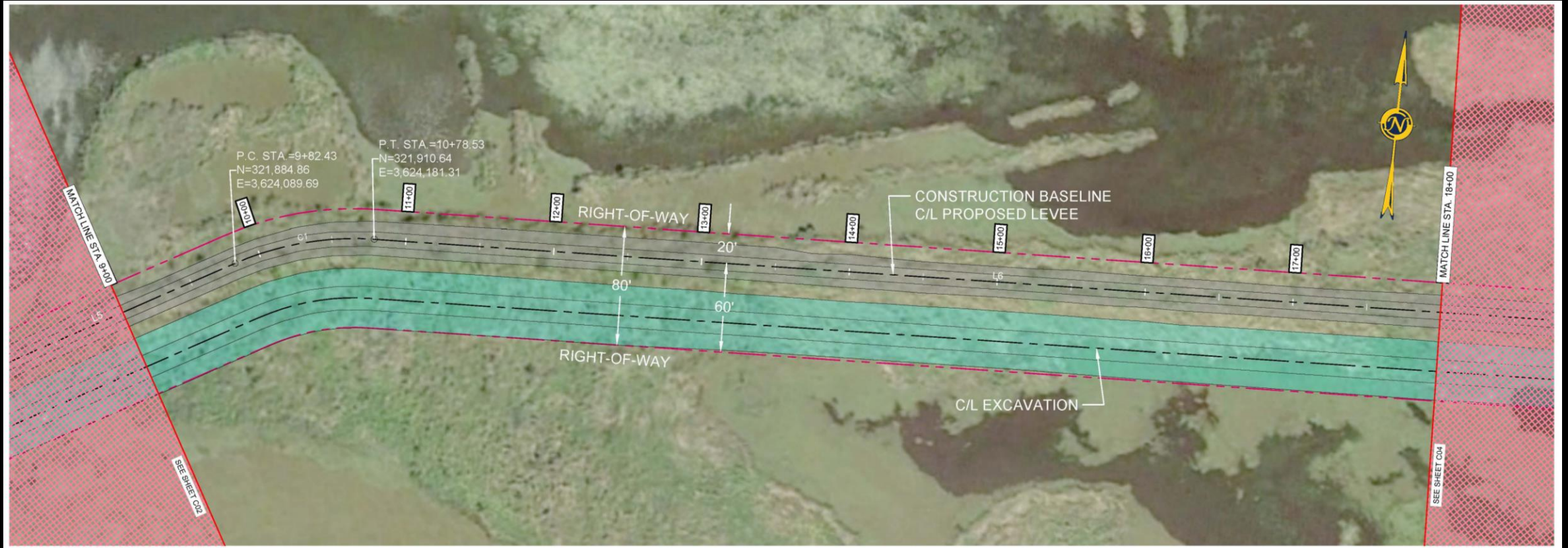
**G03**







# A-East Bayou Water Retention

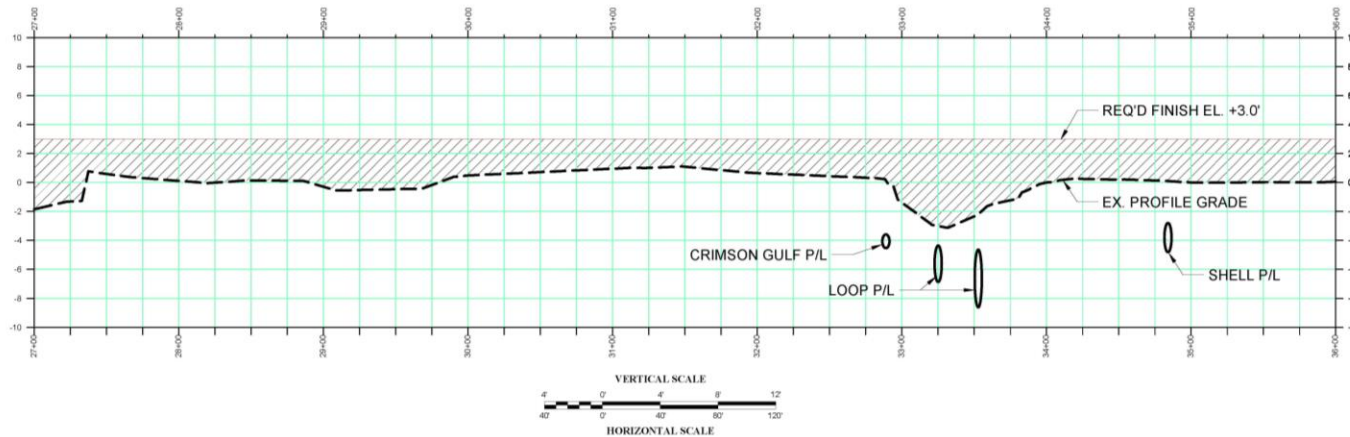




# A-East Bayou Water Retention



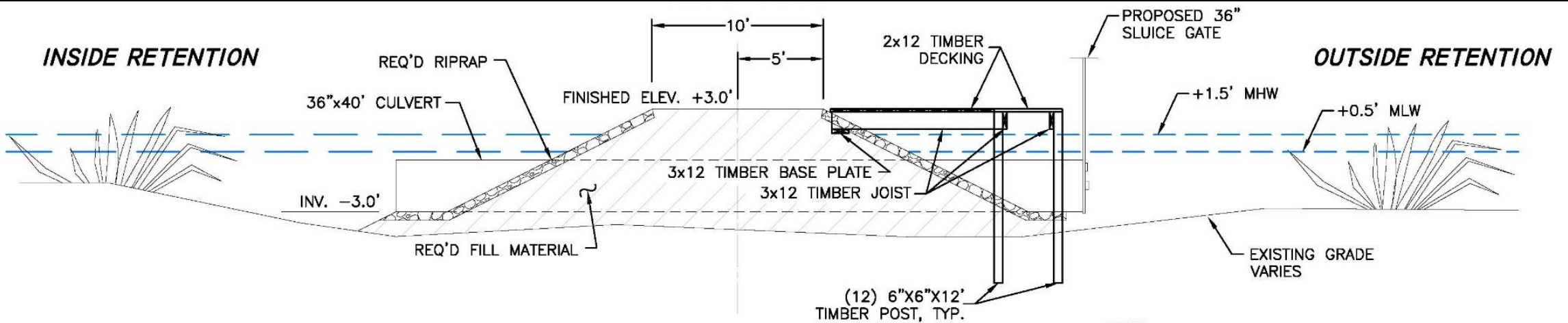
NOTE:  
 PIPELINE LOCATIONS SHOWN IN BOTH PLAN AND PROFILE ARE APPROXIMATE.  
 CONTRACTOR MUST FIELD VERIFY THEIR POSITION WITH PIPELINE REPRESENTATIVE AND  
 MAINTAIN A MINIMUM DISTANCE OF 30' FROM EXISTING PIPELINES WHEN EXCAVATING MATERIAL.  
 CONTRACTOR SHALL PLACE MATS A MINIMUM DISTANCE OF 10 FEET TO EITHER SIDE OF  
 PIPELINES WHEN CROSSING EQUIPMENT OVER THEM DURING THE CONSTRUCTION PROCESS.







# A-East Bayou Water Retention



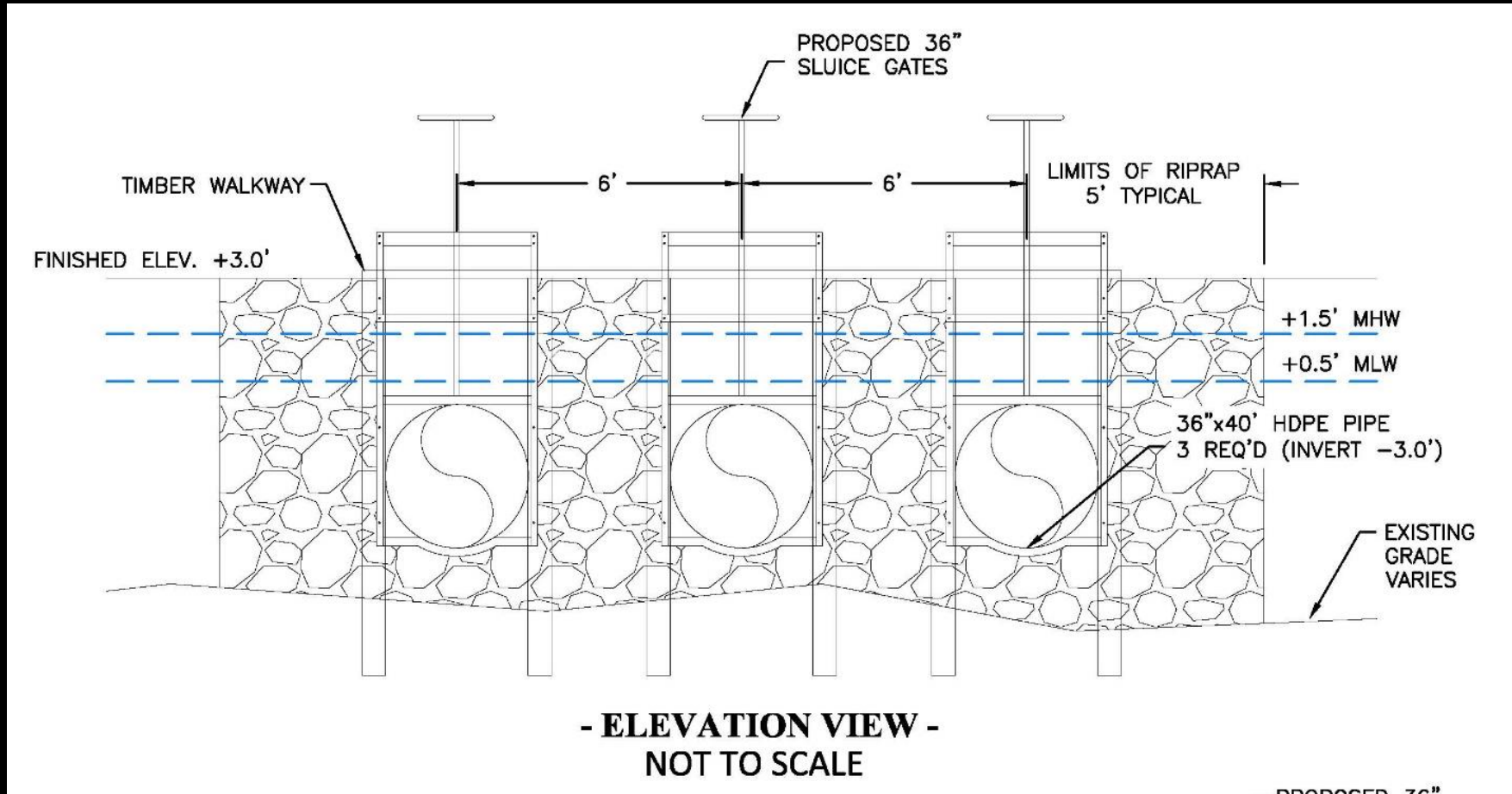
**TIDAL EXCHANGE STRUCTURES  
- SECTION VIEW -  
TYPICAL SLUICE GATE CULVERT PROFILE  
NOT TO SCALE**

**NOTE:**

1. SLUICE GATE TO REMAIN OPEN DURING NORMAL TIDAL CONDITIONS TO ALLOW TIDAL EXCHANGE WITH THE ADJACENT WETLANDS. THE GATE WILL BE CLOSED DURING POTENTIAL FLOOD EVENTS.
2. TOTAL OF SIX TIDAL EXCHANGE STRUCTURES WILL BE REQUIRED  
 WEST/EAST CORRIDOR  
 STA. 47+42, 47+48 & 47+54  
 NORTH/SOUTH CORRIDOR  
 STA. 1176+25, 1176+31 & 1176+37



# A-East Bayou Water Retention







# A-East Bayou Water Retention

- Design: Complete
- Permitting: Complete
- Pipeline Coordination: In Progress
- Land Rights: In Progress
- Cost Estimate \$1.4 million
- Advertisement: Fall 2024





# A-East Bayou Water Retention Contacts



**ENGINEERING** LLC

- Nicholas Matherne,  
nmatherne@sllid.org  
(985) 632-7554
- GIS Engineering, LLC  
(985) 632-5596
- John Plaisance, P.E., L.S.  
jplaisance@gisy.com





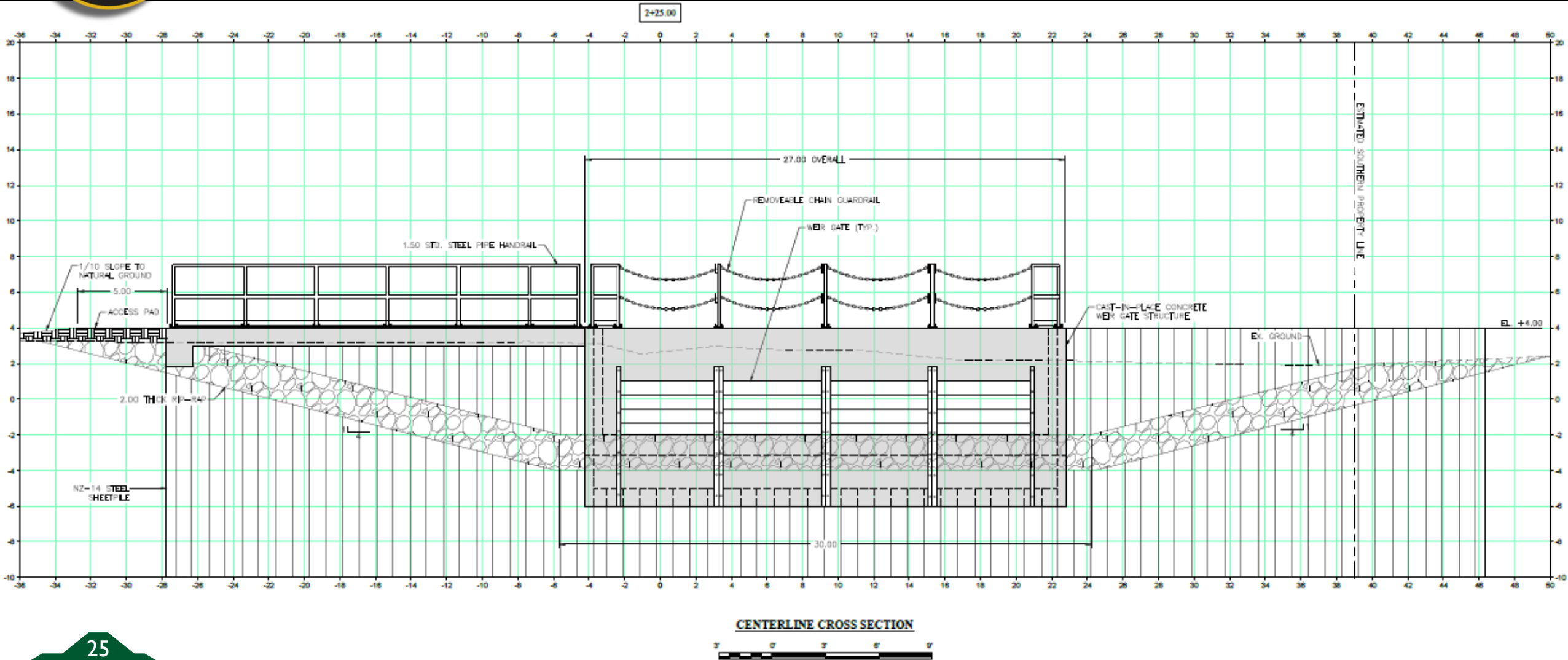
# Breton Canal Weir

- Construction of 4-Bay Variable Crest Weir structure on Breton Canal in Galliano, LA
- Some Dredging work involved



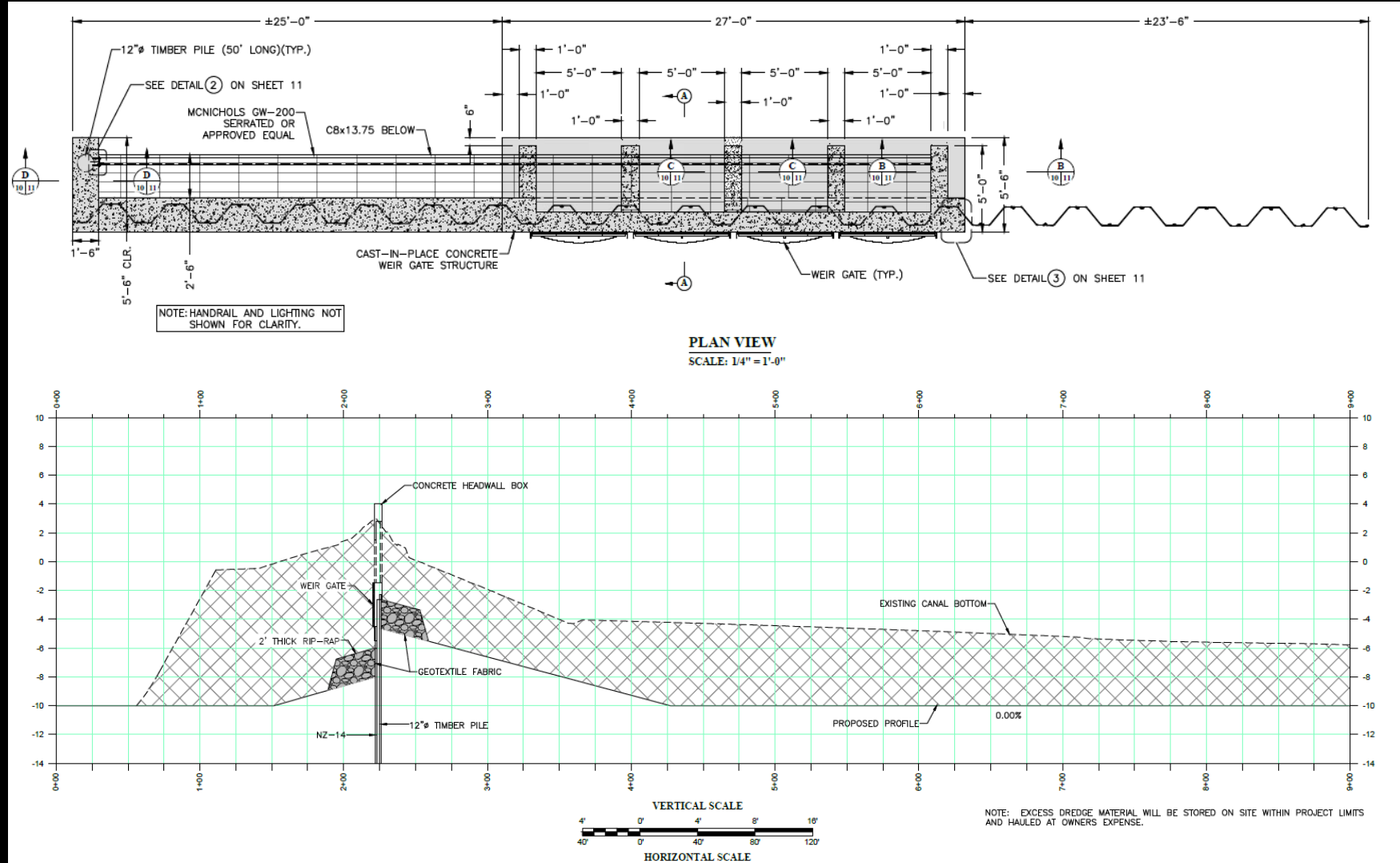
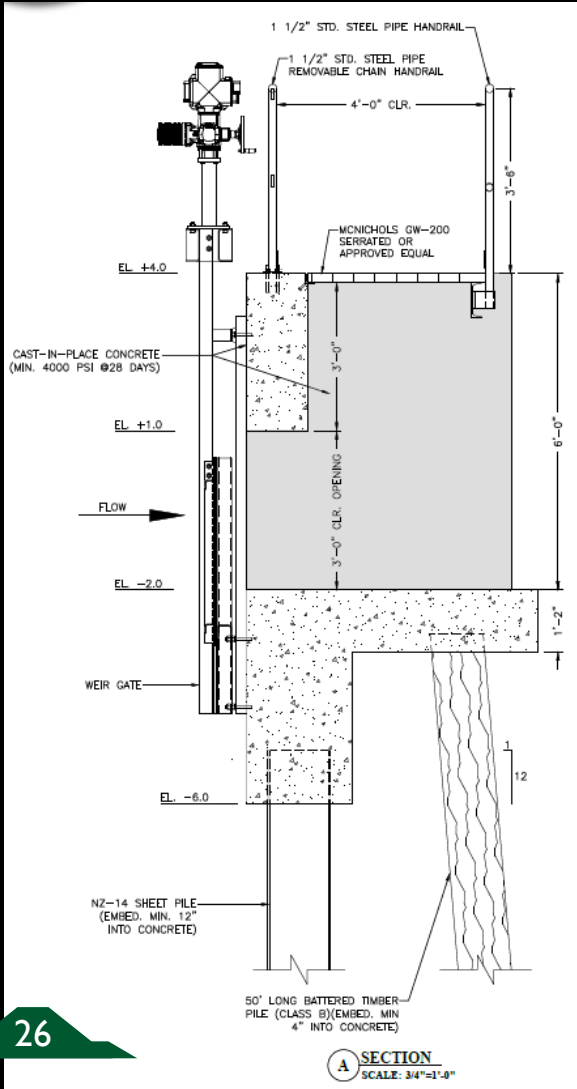


# Breton Canal Weir





# Breton Canal Weir

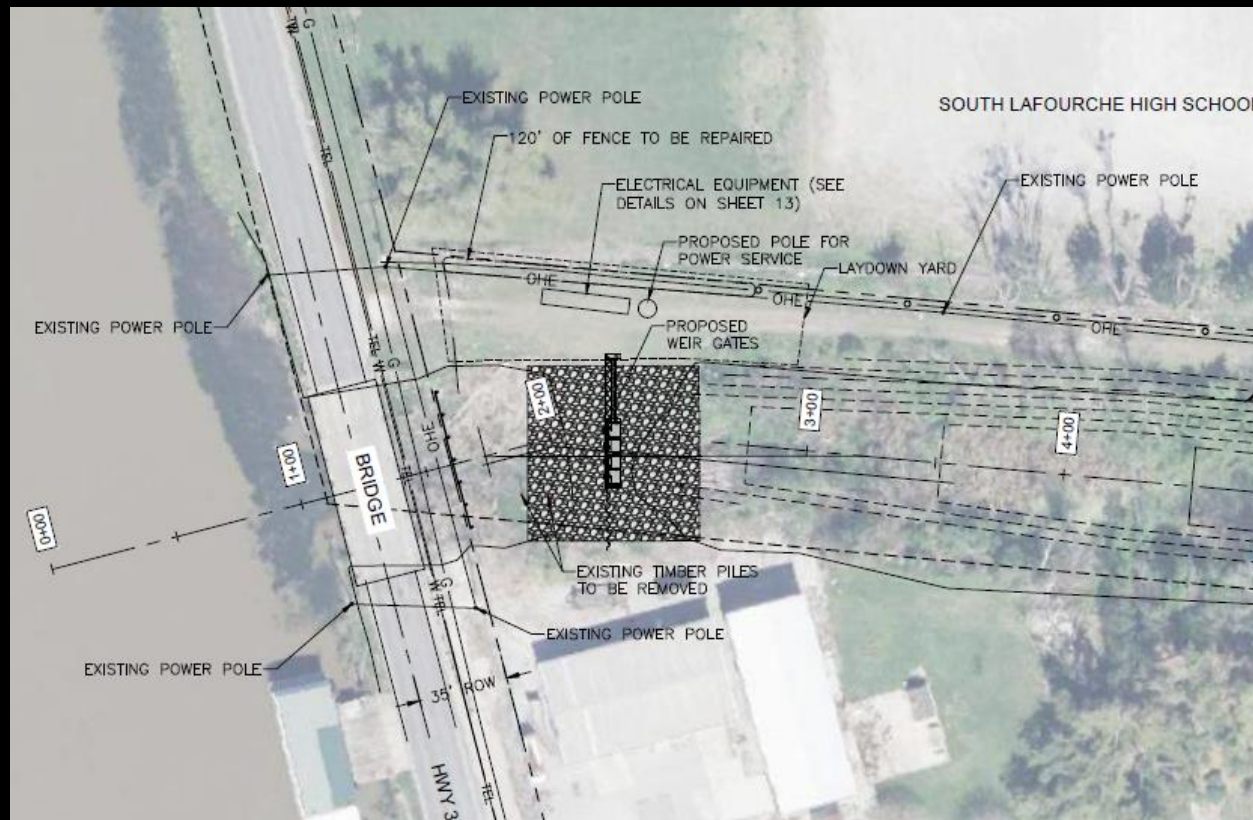






# Breton Canal Weir

- Design: Complete
- Permitting: Complete
- Cost Estimate \$950,000
- Advertisement: Ends April 18





# Breton Canal Weir

## Contacts



**ENGINEERING** LLC

- Nicholas Matherne,  
nmatherne@sllid.org  
(985) 632-7554
- GIS Engineering, LLC  
(985) 632-5596
- John Plaisance, P.E., L.S.  
jplaisance@gisy.com





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March 26<sup>th</sup>, 2024  
2:00pm – 3:30pm CST

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Meeting ID: 822 8498 2515  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836

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# South Grand Chenier – Baker Tract Marsh Creation Project

## ME-32

Breese Barnes  
Design Engineer  
March 2024



United States  
Department of  
Agriculture

Natural Resources Conservation Service



USDA Natural Resources Conservation Service

*Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People*

**Helping  
People  
Help the  
Land**





# Outline

- Project Location
- Schedule
- Layout of Marsh Creation Areas
- Layout of Borrow Area
- Layout of Earthen Containment Dikes
- Dredge Pipeline Corridor
- Summary of Bid Quantities

*Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People*

**Helping  
People  
Help the  
Land**

# Project Location



**CAMERON PARISH  
LOCATION IN LOUISIANA**

INFO	DESCRIPTION
LOCATION	Mermentau Basin, Cameron Parish
FUNDING	CWPPRA – Natural Resources Conservation Service (NRCS) Sponsored
PROJECT TYPE	Marsh Creation

**Helping  
People  
Help the  
Land**



# Project Location



*Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People*

**Helping  
People  
Help the  
Land**



# Schedule

- Phase 2 Approval: January 2024
- Permitting: Submitted January 2024
- Anticipated Advertisement: Winter 2024 – Spring 2025  
**sam.gov**
- Construction Duration: 261 days (includes 34 weather days)

*Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People*  
**Helping  
People  
Help the  
Land**





# Layout of Marsh Creation Areas

Marsh Creation Area	Total Area (acres)
Base MCA	389
Unconfined MCA	12
Alternative MCA	66
<b>Total</b>	<b>466</b>

- Base MCA: Fully confined
- Unconfined MCA: Filling in of Price Lake Levee borrow ditch
- Alternative MCA: Semi-confined dewatering area, no direct placement of material within cell



Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People

**Helping  
People  
Help the  
Land**

# Layout of MCA Borrow Area

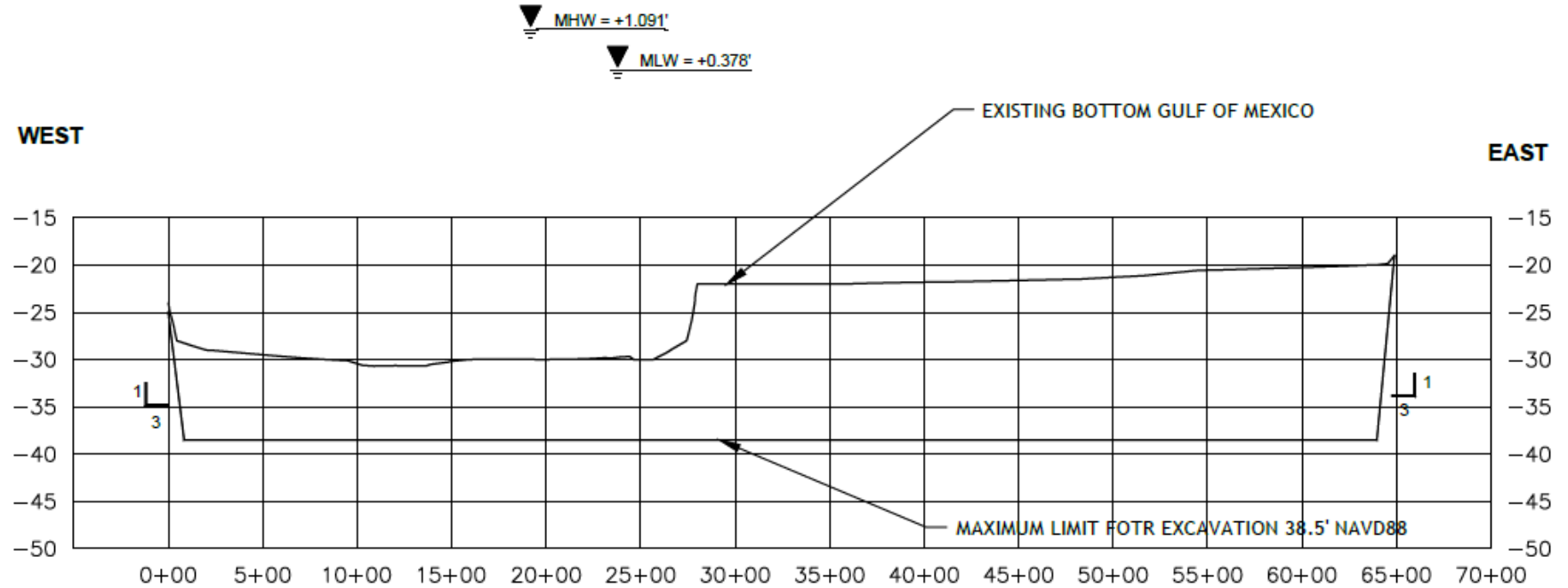


Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People  
**Helping  
People  
Help the  
Land**





# Profile of Borrow Area



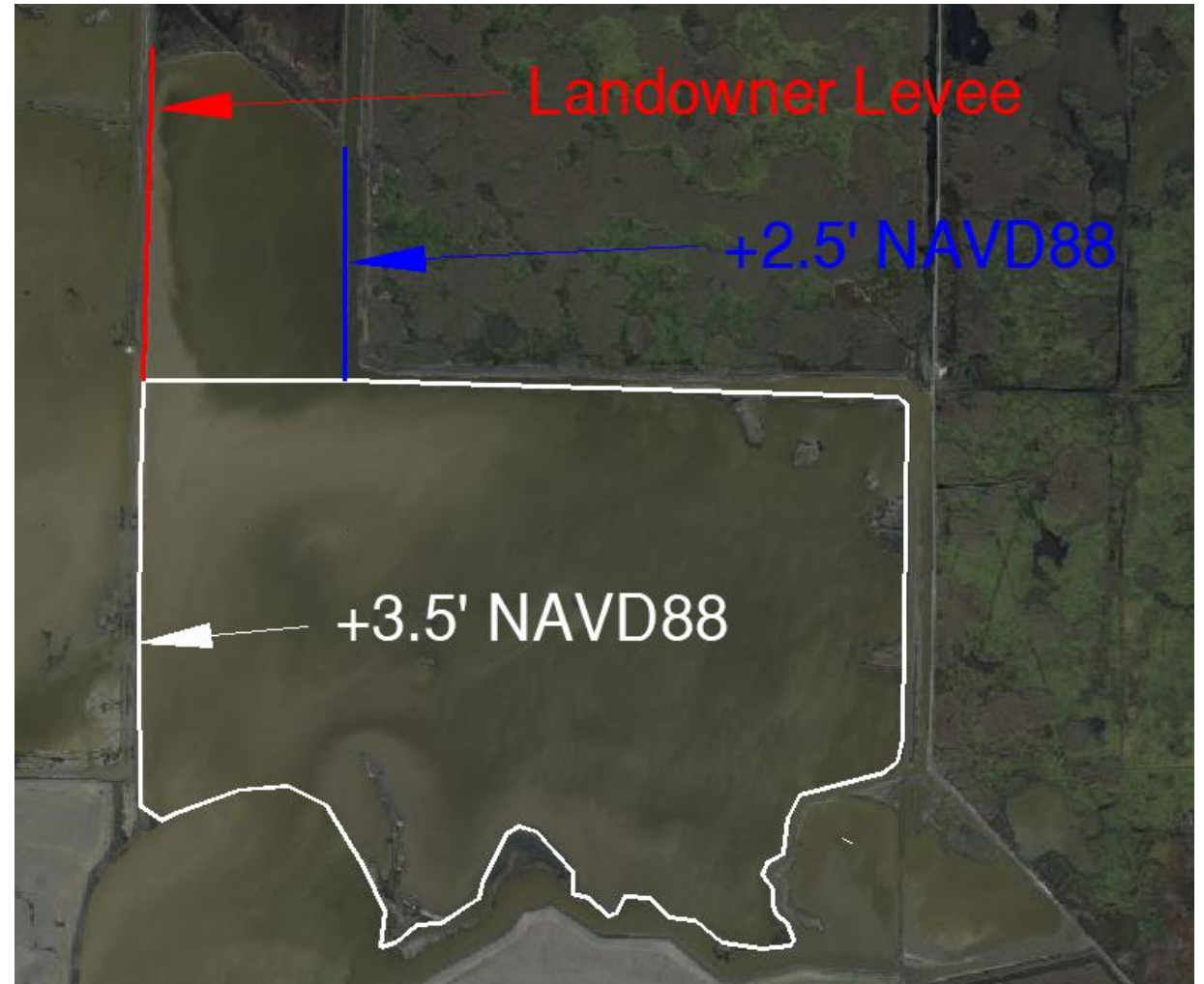
- Very soft clays up to ~10 feet below mudline, stiff clays below
- Maximum Limits for Dredge Excavation – 38.5' NAVD88 (Allowable Over Depth 3.0')

Helping  
People  
Help the  
Land

Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People

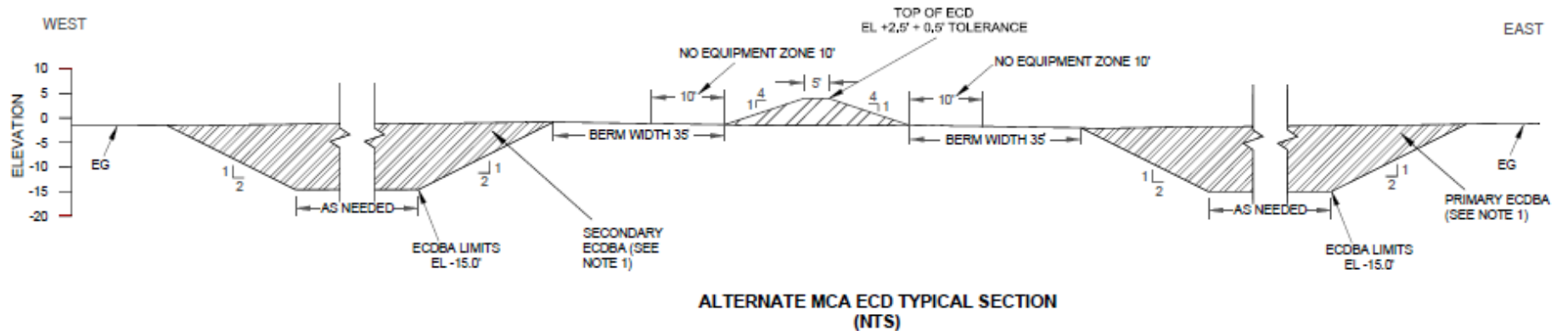
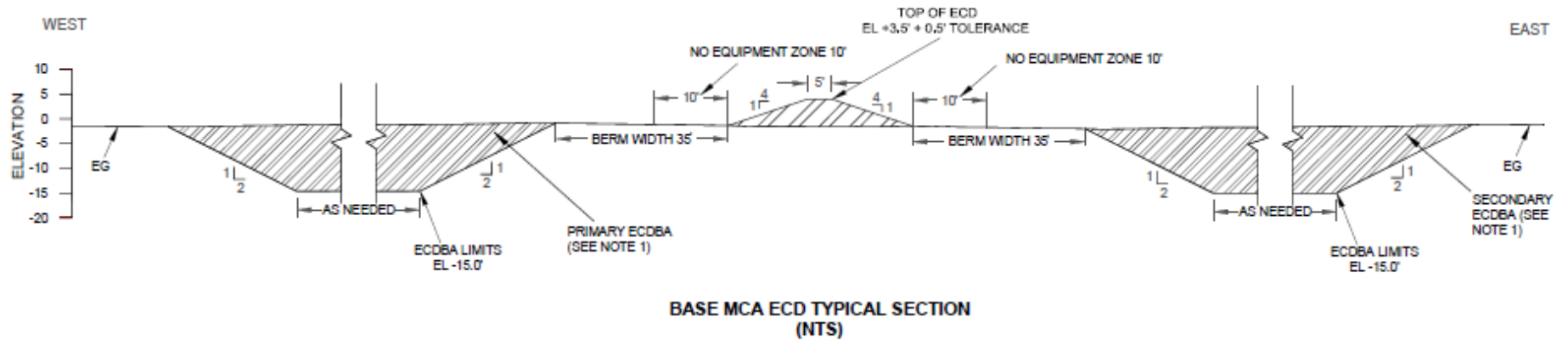
# Layout of Earthen Containment Dikes

- All ECDs to be constructed as part of Base bid
- No dewatering directly into drainage canal/Hog Bayou
- Additional volume to fill Alternative MCA to be placed in Base MCA, will then be dewatered into desired location





# Typical Section of Earthen Containment Dike



Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People  
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People  
Help the  
Land**

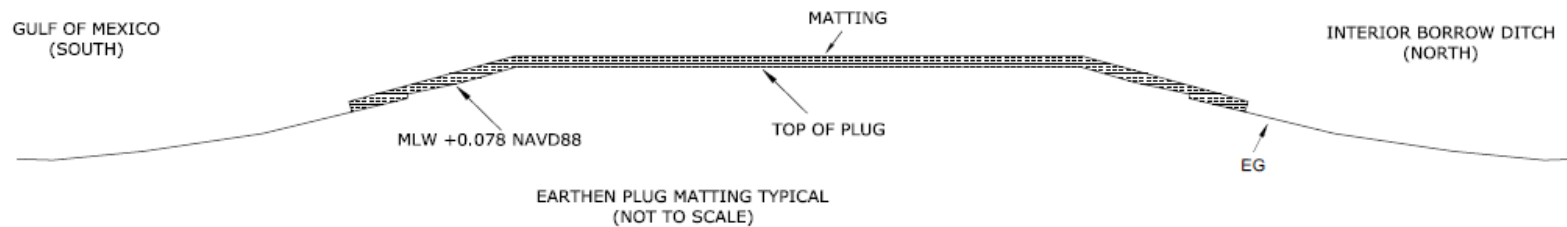


# Dredge Pipeline Corridor

- Mostly open water from borrow area to marsh creation area
- Matting must be deployed over earthen plug at shoreline for protection



Matting Area



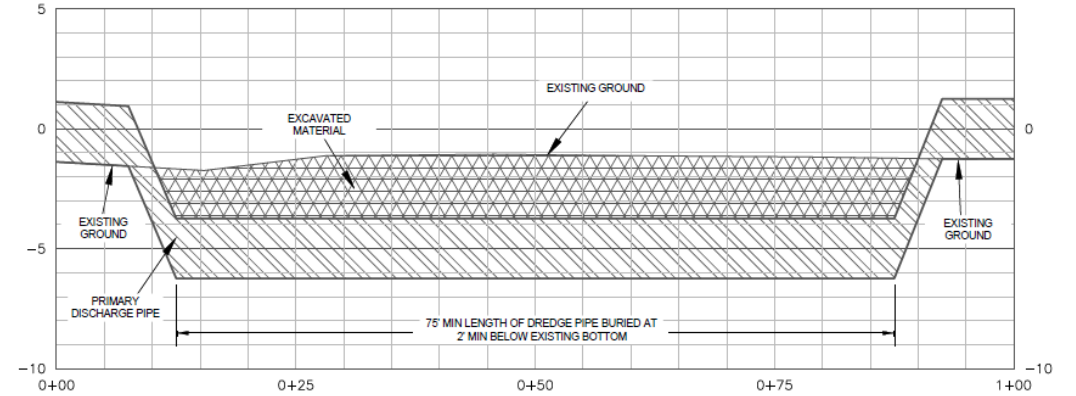
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People  
Help the  
Land





# Dredge Pipeline Corridor

- 75' Pipe segment must be buried to allow for landowner boat access
- Crossing must be clearly marked for access



USDA Natural Resources Conservation Service

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Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People  
**Helping  
People  
Help the  
Land**

# Bid Quantities

Item No.	Work	Spec No.	Quantity	Unit
1	Mobilization/Demobilization	8	1	LS
2	Construction Surveys	7	1	LS
3*	Marsh Creation Fill	421	1,621,822	CY
4*	Earthen Containment Dikes	423	20,375	LF
5	Staff Gauges	93	27	EA
6*	Marsh Creation Fill - Alternative MCA	421	202,272	CY
7	Staff Gauges - Alternative MCA	93	8	EA
Bid Item numbers with * are estimated quantities				

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People  
Help the  
Land**





**United States  
Department of  
Agriculture**

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## Natural Resources Conservation Service

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*Soil Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People Soil  
Water Air Plants  
Animals People*

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People  
Help the  
Land**

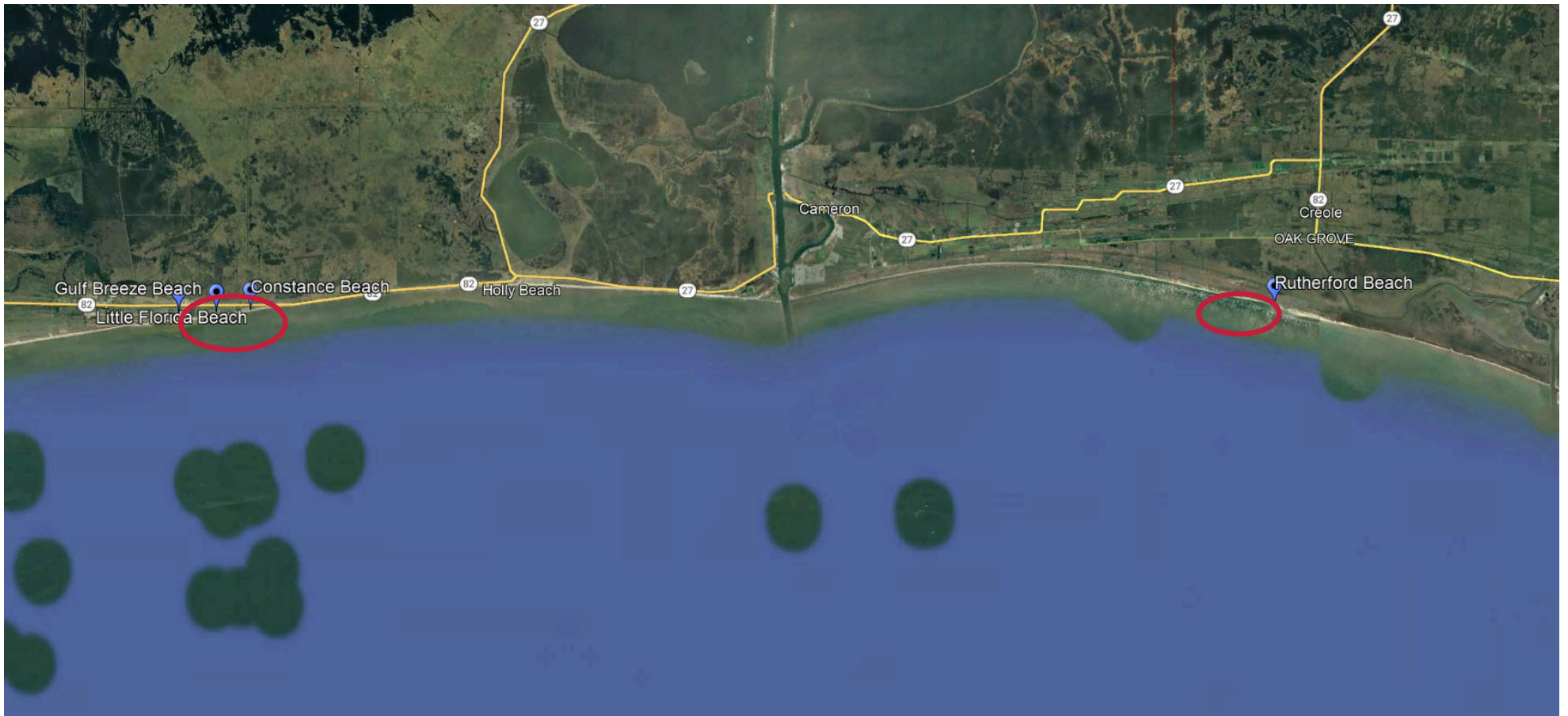


# Cameron Parish Gulf Shoreline Stabilization Project (ME-38)

*CAMERON PARISH, LOUISIANA*

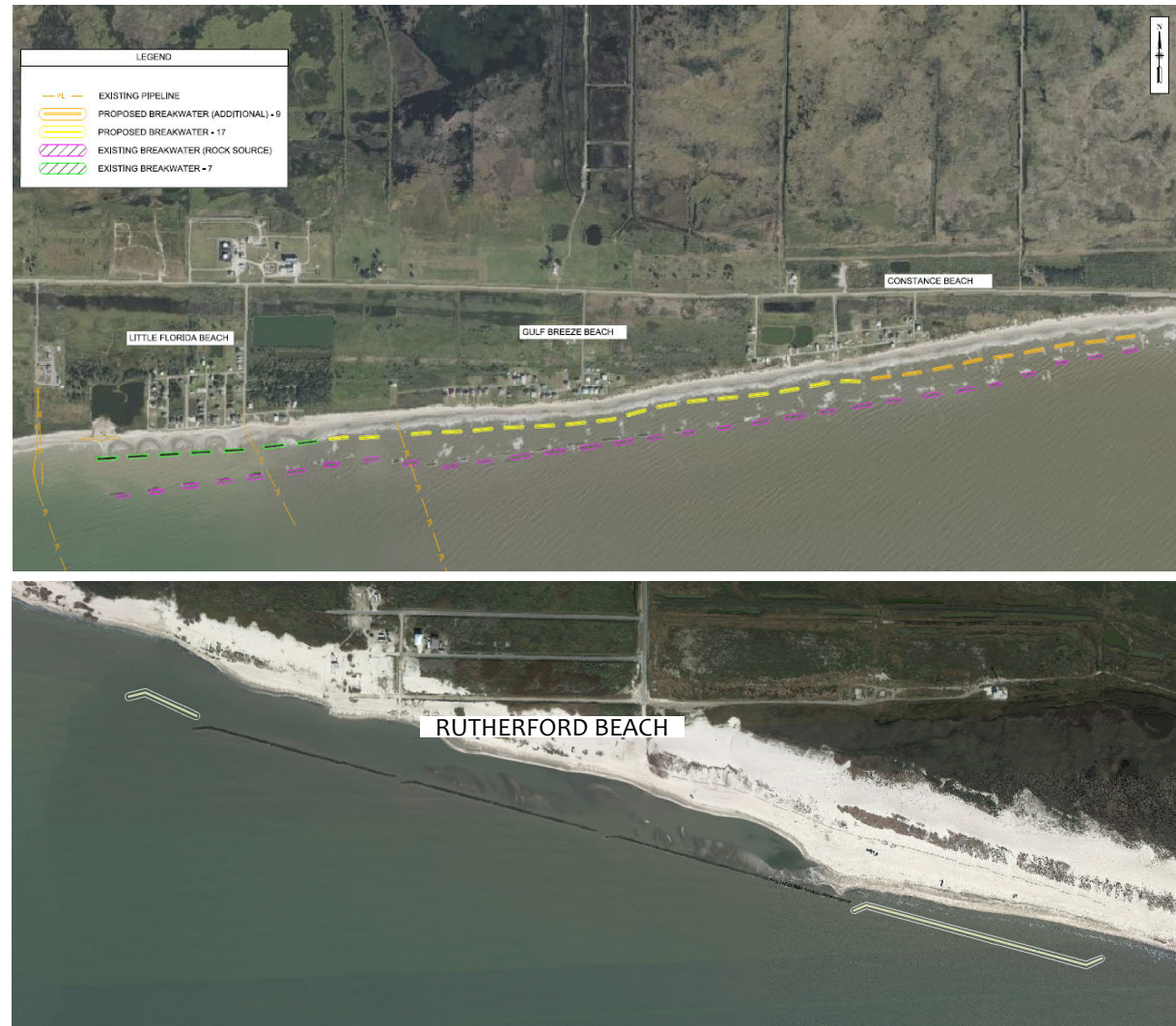


# PROJECT LOCATION



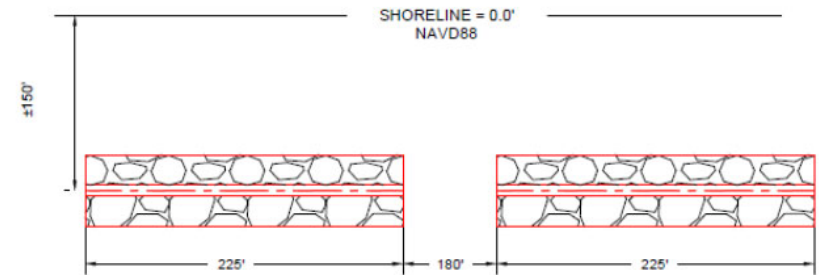
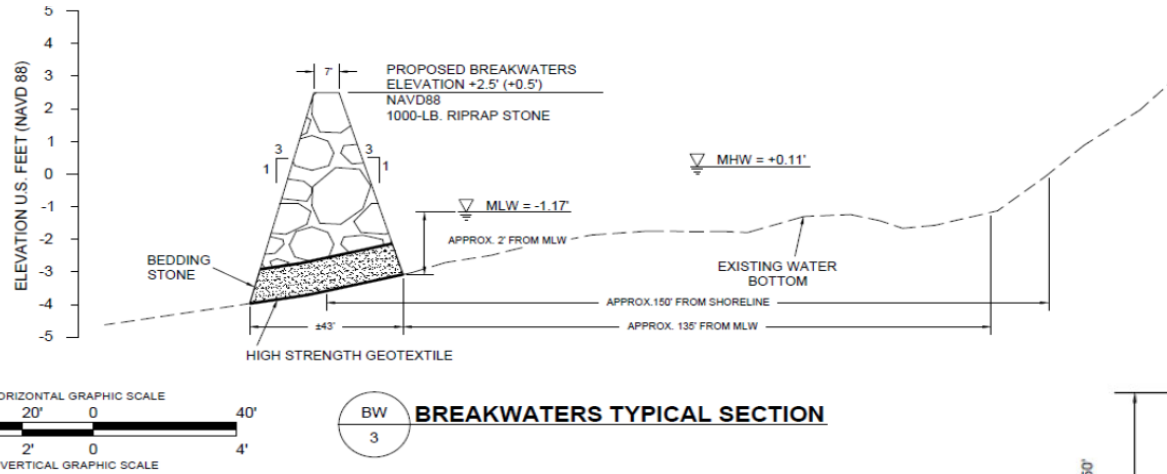
# PROJECT OVERVIEW

- Extension of previous breakwater project at Little Florida Beach and Rutherford Beach
  - ~10,500 LF of shoreline protection for Gulf Breeze Beach and Constance Beach
    - *26 segmented breakwaters*
    - *Plan to source material from existing breakwaters further offshore*
  - ~4,000 LF of shoreline protection for Rutherford Beach
    - *2 segmented breakwaters*
    - *Positioned on eastern terminus and western terminus of first project*
  - Armor Stone and bedding stone construction, no encapsulated LWA core
  - +2.5 ft Minimum Elevation
  - Estimated for Bid: Summer/Fall 2024
  - Estimated for Construction: Late 2024 to Early 2025
- Cameron Parish Gulf Shoreline Stabilization Project (ME-38)*

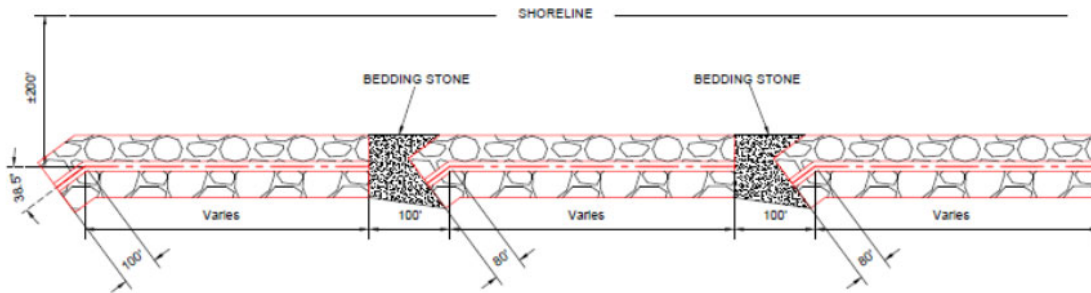




# TYPICAL SECTIONS



## GULF BREEZE AND CONSTANCE BEACHES



## RUTHERFORD BEACH

## UNIQUE ASPECTS

- Utilizing armor stone from existing breakwaters
- Sustainable to repurpose material from breakwaters beyond design life
- This does come with challenges to maneuver the armor stone in the Gulf





# Mermentau Inundation Relief Project No. 65MTRR7701

- Two Projects currently advertising for bid
  - *Water Control Structures*
  - *Rehabilitation of East End Locks*
- Both are located at Rockefeller Wildlife Refuge in Cameron Parish
- Bidding closes on April 11<sup>th</sup> at 2:00 PM



Daniel Dehon, MS, P.E.

225.344.6701 x1525

[danield@fenstermaker.com](mailto:danield@fenstermaker.com)

[www.fenstermaker.com](http://www.fenstermaker.com)







# ***GRAND BAYOU FRESHWATER REINTRODUCTION***

**March 26, 2024**



**ENGINEERING LLC**







# Project History /Location

- **1996 – Original project initiated which included water control structures in the levee system on the west bank of Grand Bayou.**
- **2002 - the project was downsized and later deauthorized due to cost and benefits.**
- **2014 - the project was picked up again as the Parish developed its Multi-Year Implementation Plan for the Treasury Department as part of the RESTORE Act funding.**
- **2019 - LPG bonded out its GOMESA revenue.**
- **2020 - LPG authorized GIS Engineering to begin the design work on the project and move it to construction.**

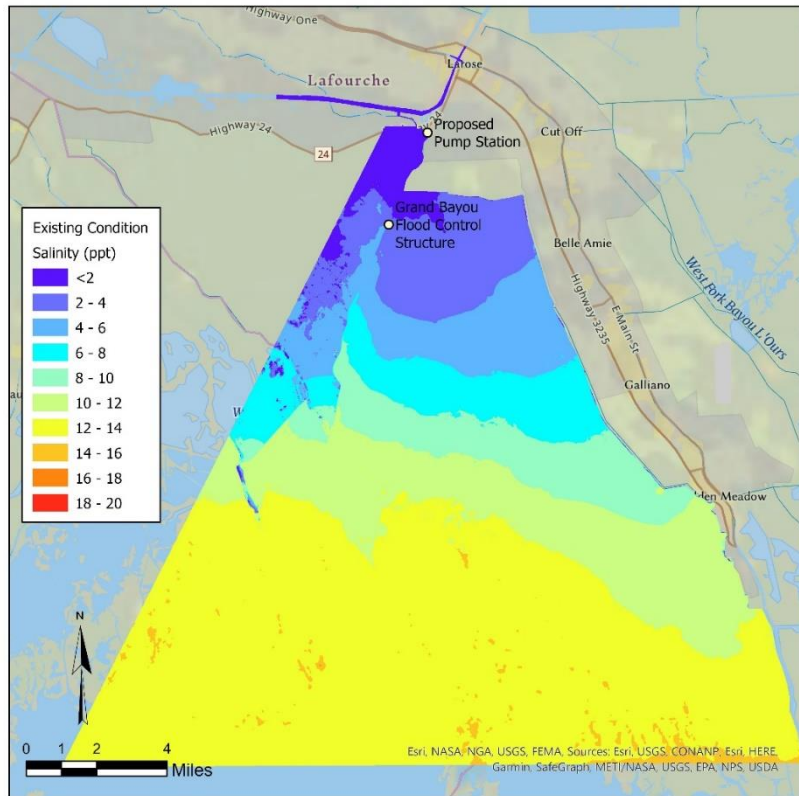




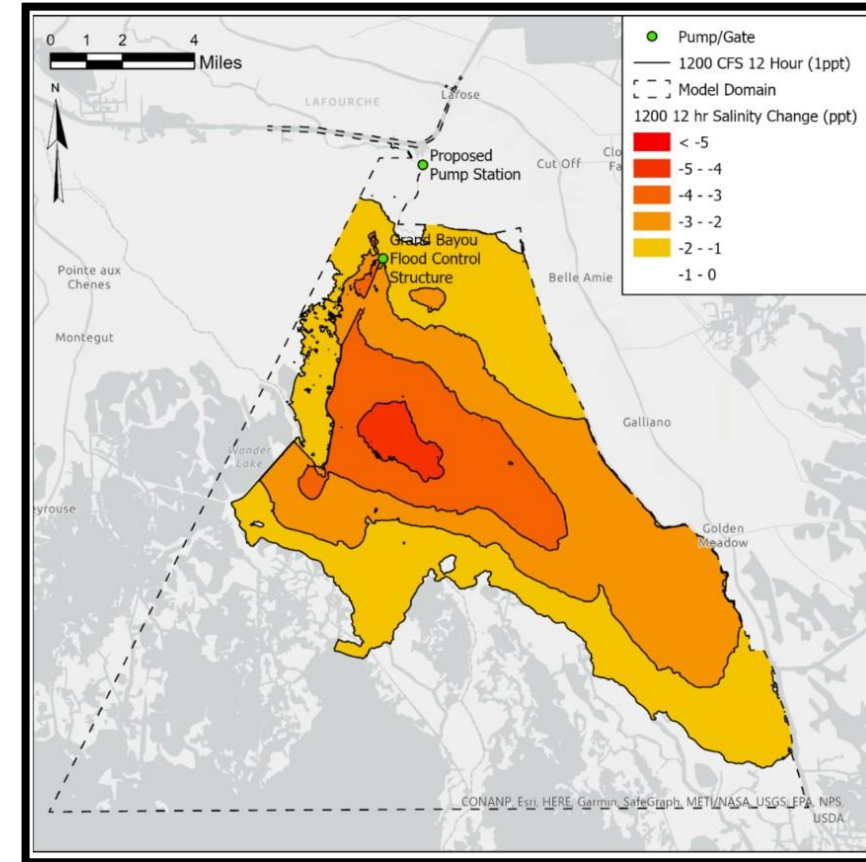


# Project Benefits

## Hydraulic Modeling – Salinity Reduction



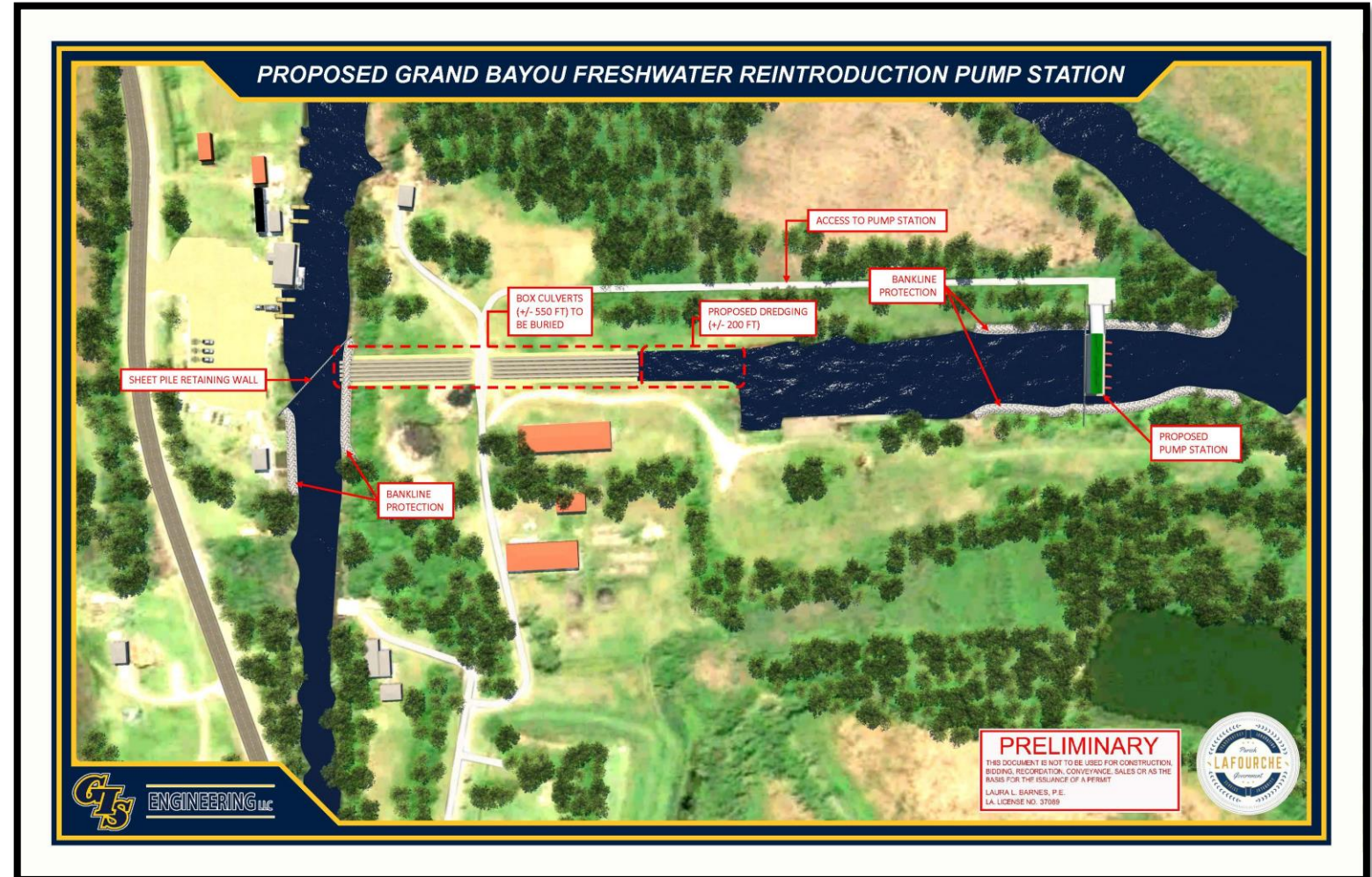
- **Lafourche Parish & the Terrebonne Basin**
- **Approximately 73,000 acres of anticipated marsh nourishment to see minimum 1 part per thousand of salinity reduction.**
- **1,200 cfs Freshwater Diversion Pump Station from the Atchafalaya River, down Grand Bayou via the GIWW.**





# Project Overview

- **Demolition**
- **Boat Launch**
- **Sheet Pile Cutoff Wall**
- **Excavation**
- **Bridge & Access Road**
- **Bankline & Scour Protection**
- **Pump Station**







# Project Features Demolition

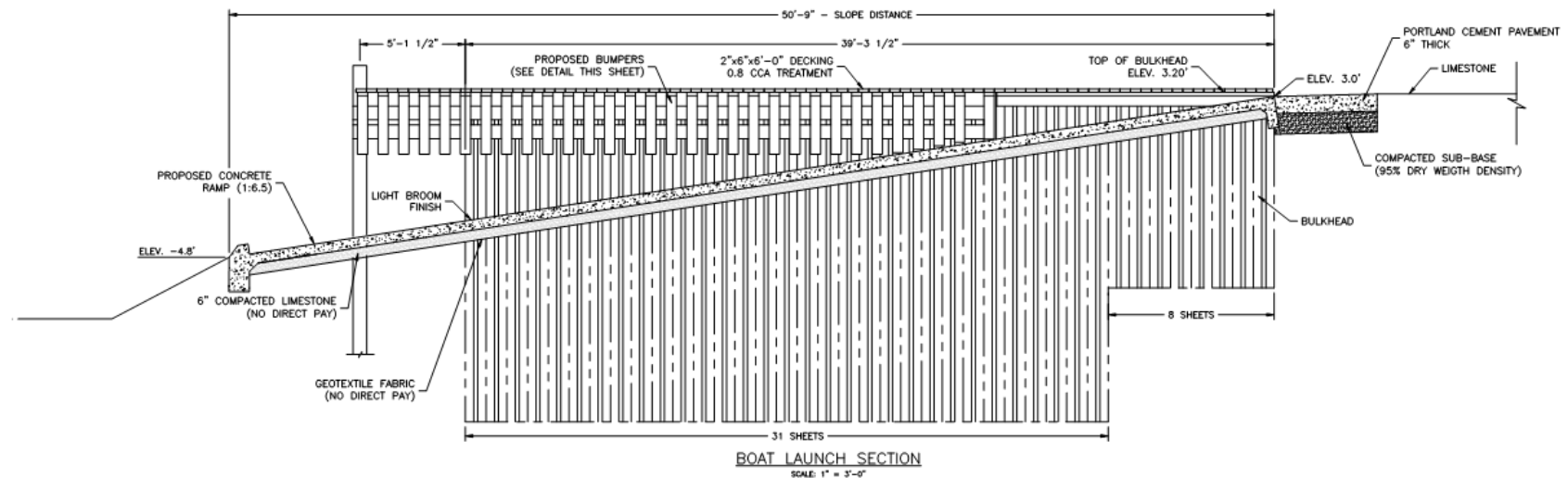
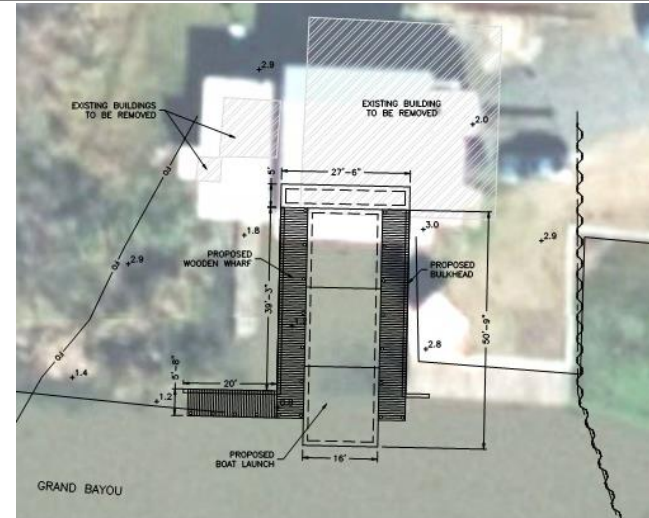
- **Concrete Tank Foundations**
- **Buildings**
- **Boat Sheds**
- **Docks**





# Project Features Boat Launch

- **Bulkhead**
- **Wooden wharf**
- **Class B timber piles**
- **6" compacted limestone**
- **Reinforced concrete ramp**
  - **#4 rebar**
  - **4000 psi concrete**



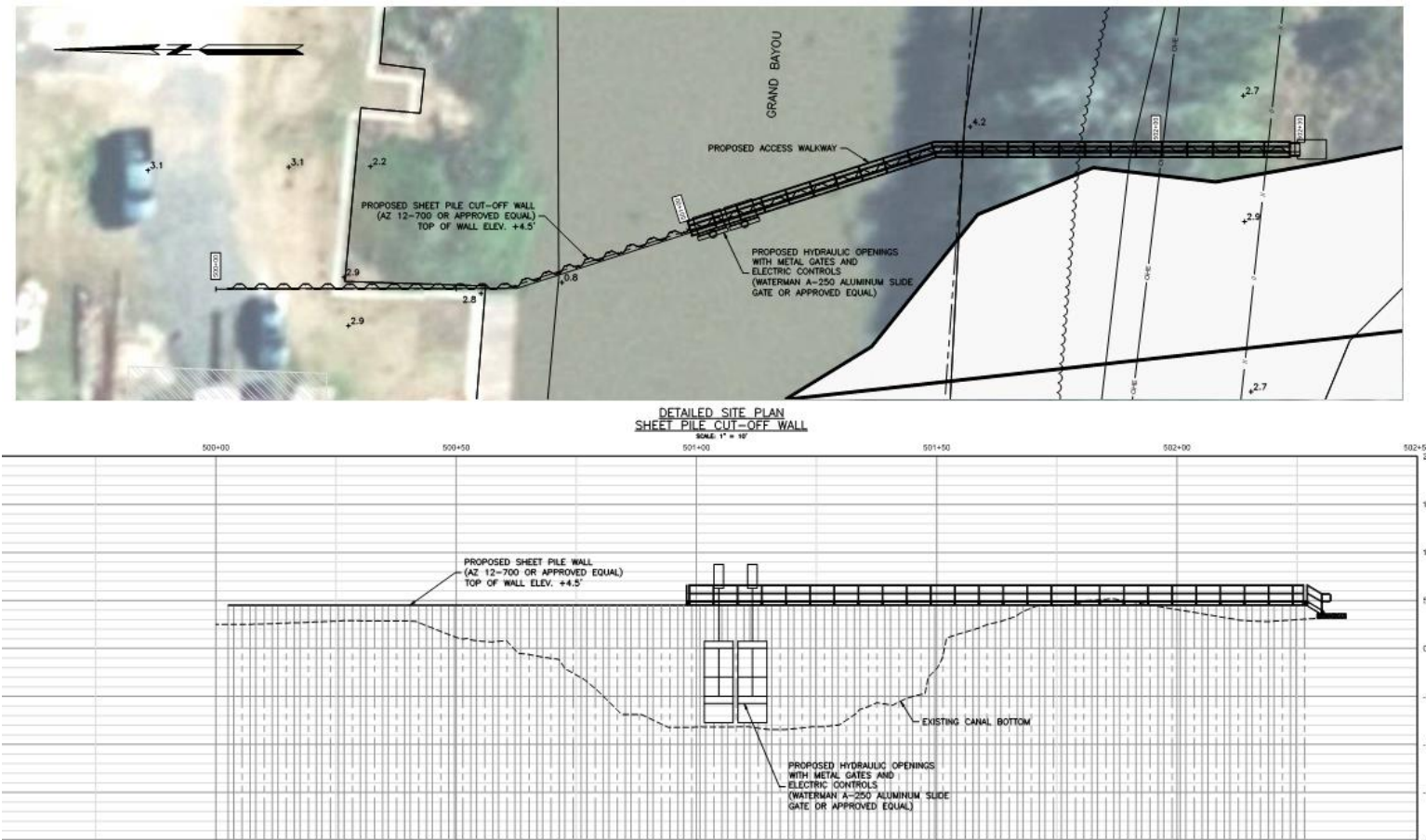




# Project Features

## Sheet Pile Cutoff Wall

- **AZ 12-700 steel sheet pile cutoff wall will be installed to mitigate water recirculation during pump station operations.**
- **Cutoff wall includes (2) sluice gates that can be operated to allow natural flow of freshwater from the GIWW as the tide allows.**
- **TOW EL = +4.5'**
- **TIP EL ~ -20'**
- **Length ~ 230 LF**

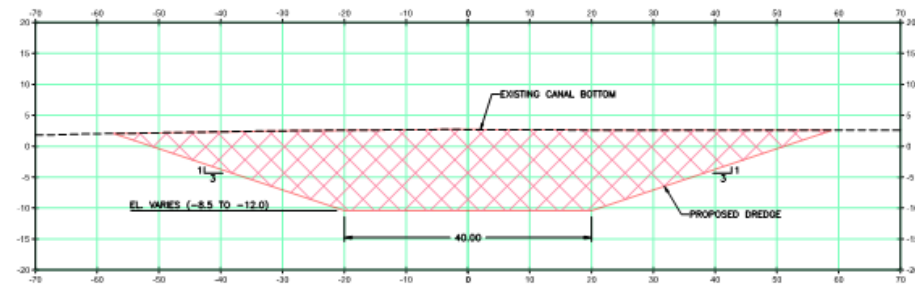
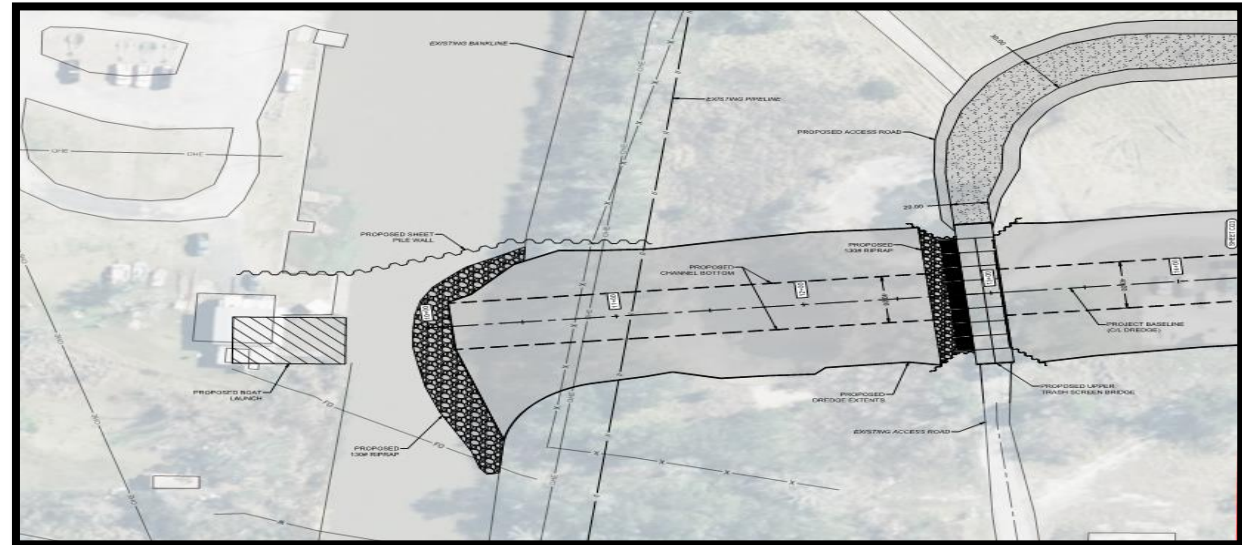




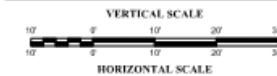
# Project Features Excavation



- **Conveyance channel**
  - **EL -8' to -10'**
  - **3:1 side slopes**
  - **40' wide base**



TYPICAL CONVEYANCE CHANNEL SECTION

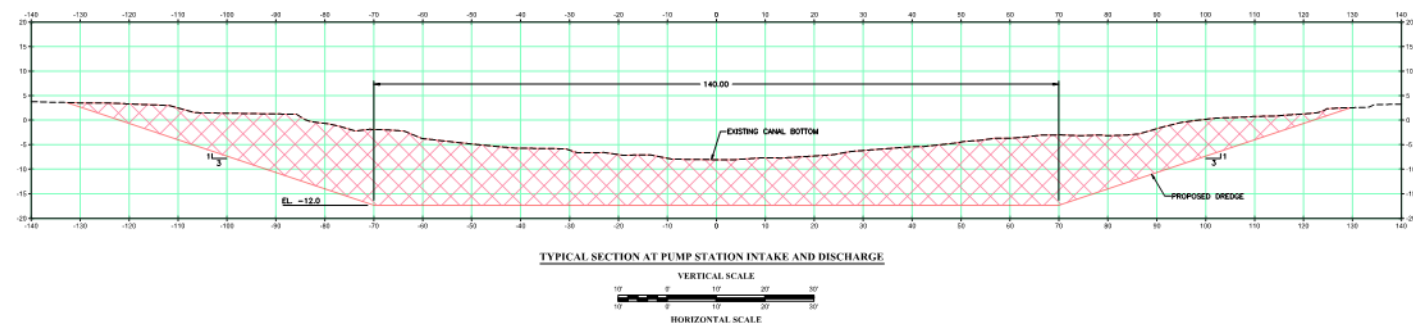
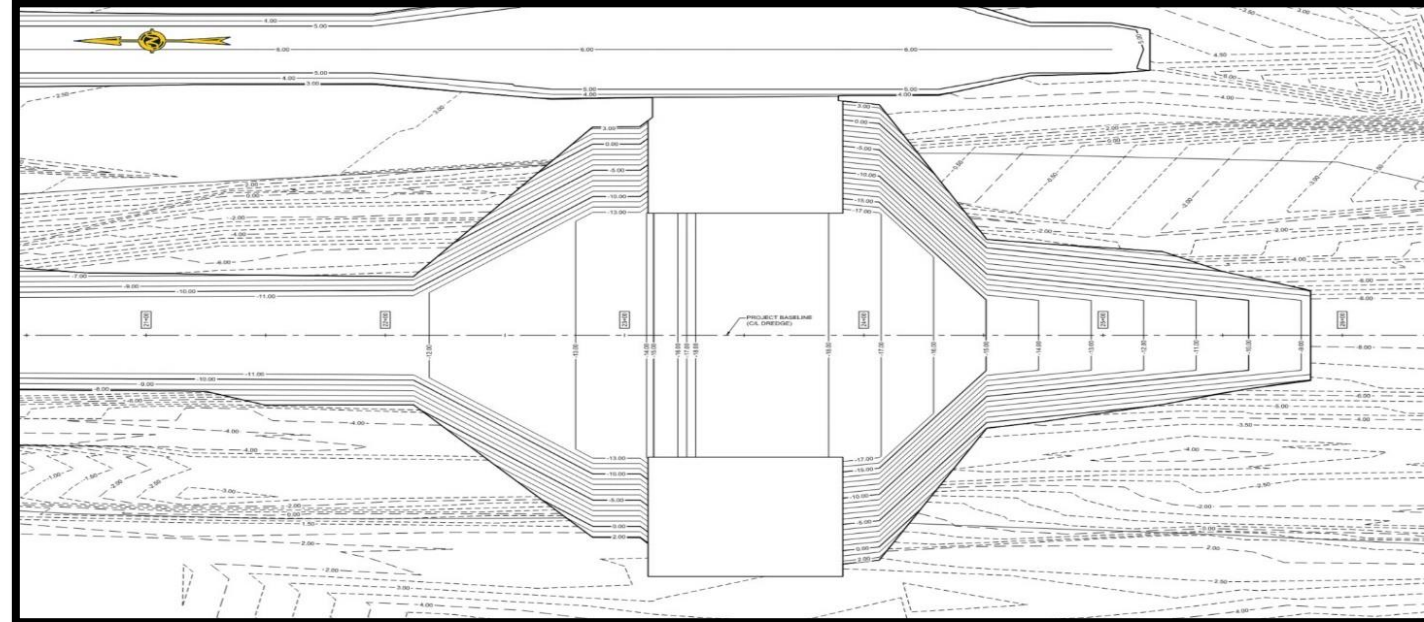






# Project Features Excavation

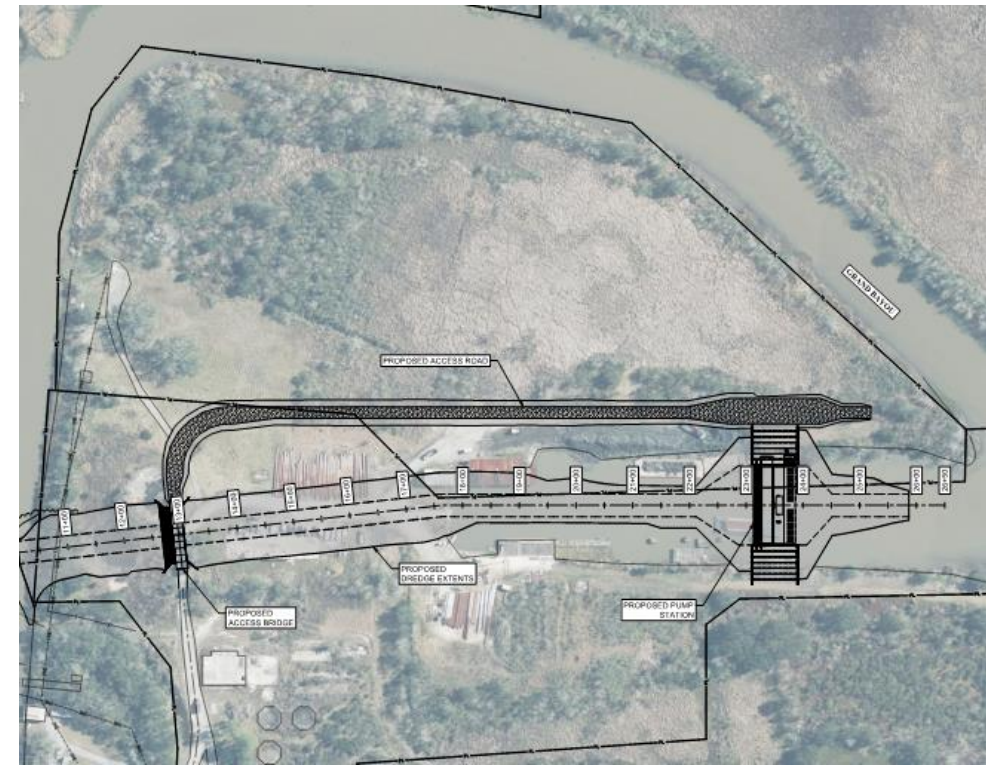
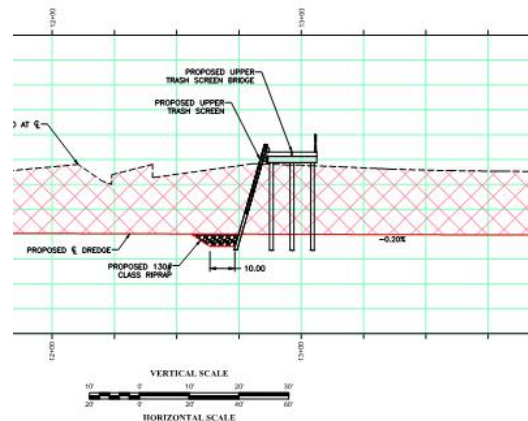
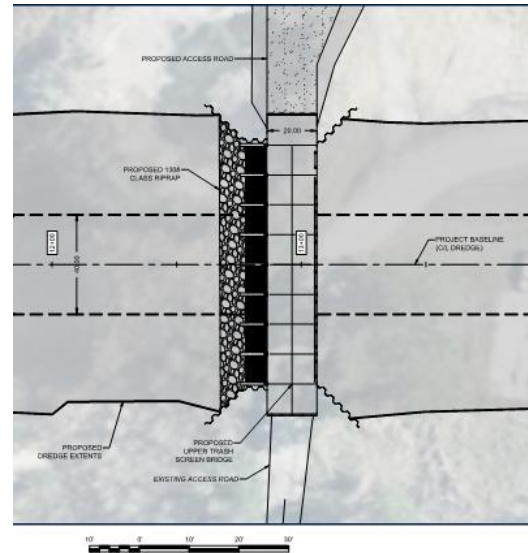
- **Pump Station**
  - **EL -16.25'**
  - **3:1 side slopes**
  - **140' wide sump**
  
- **Estimated Excavation**
  - **150,000 – 200,000 CY**





# Project Features Bridge and Access Road

- **Access consists of a conveyance channel bridge crossing and an aggregate road.**
- **20' wide x 60 LF precast concrete bridge constructed to support HS-20 load vehicles.**
- **Access road = 1,350 LF of aggregate roadway capable of supporting HS-20 loading.**
- **Width varies from 20'-45'.**
- **Aggregate = 1000 CY**





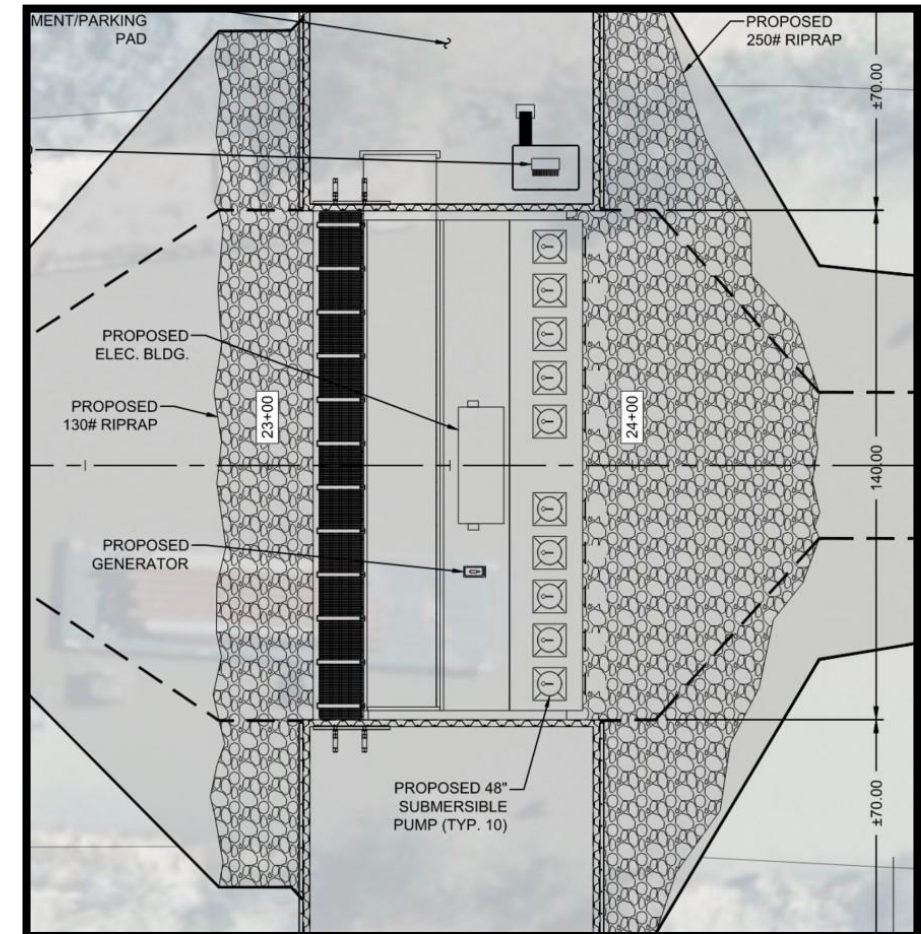
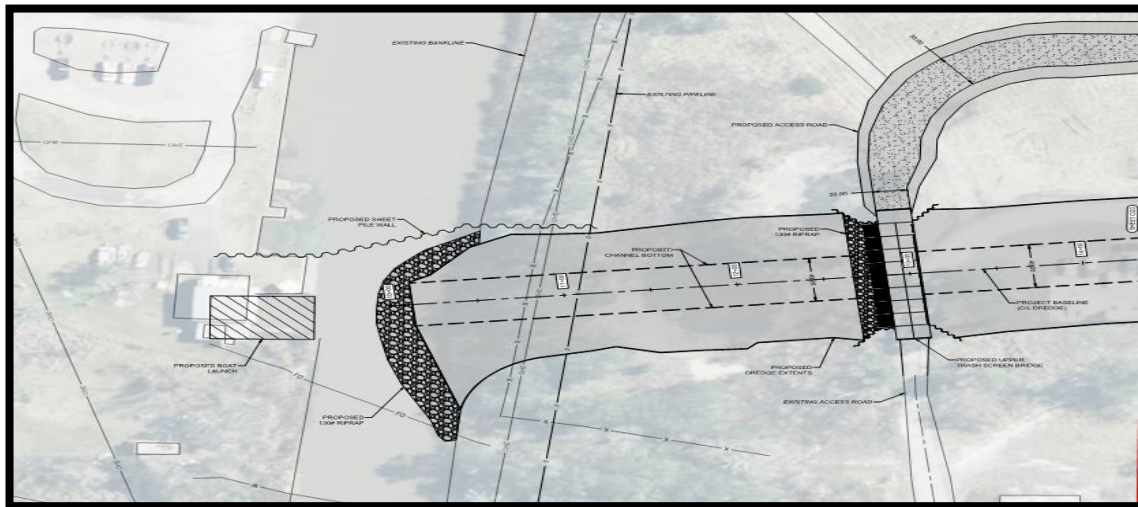


# Project Features

## Bankline Stabilization and Scour Protection



- **130 lb. and 250 lb. Riprap**
- **Placed at key scour points**
  - **Hwy. 24 Bridge**
  - **Mouth of the conveyance channel**
  - **Sump intake and discharge**
- **Estimated quantity = 3500 TNS**

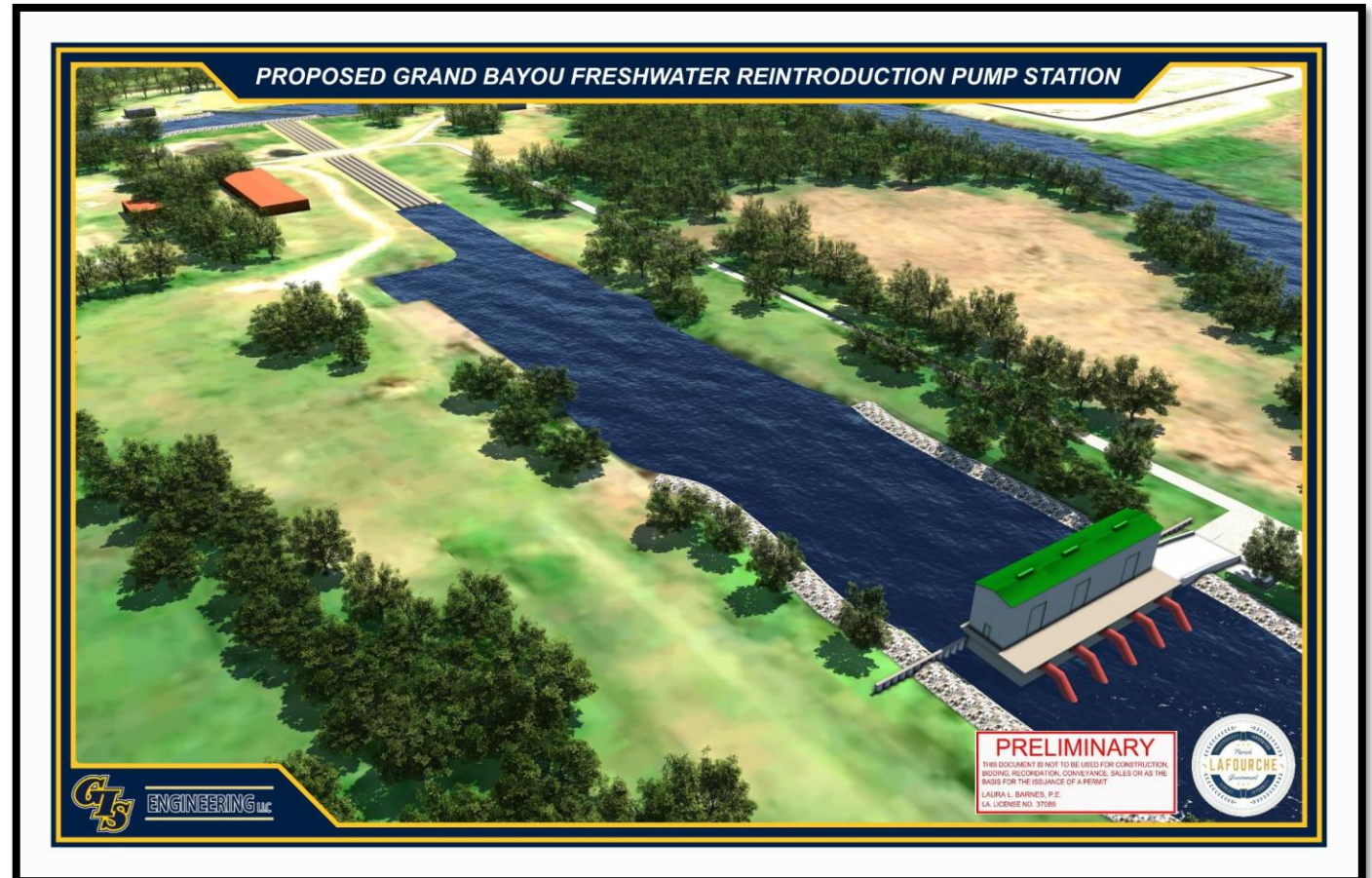




# Project Features

## 1200 cfs Pump Station

- **Operation**
  - **Pump on and off times will be dependent on salinity readings at the GIWW, the pump station, and the flood control structure to the south**
  - **The pump station will ultimately be pumping, on average, 12 hours per day**

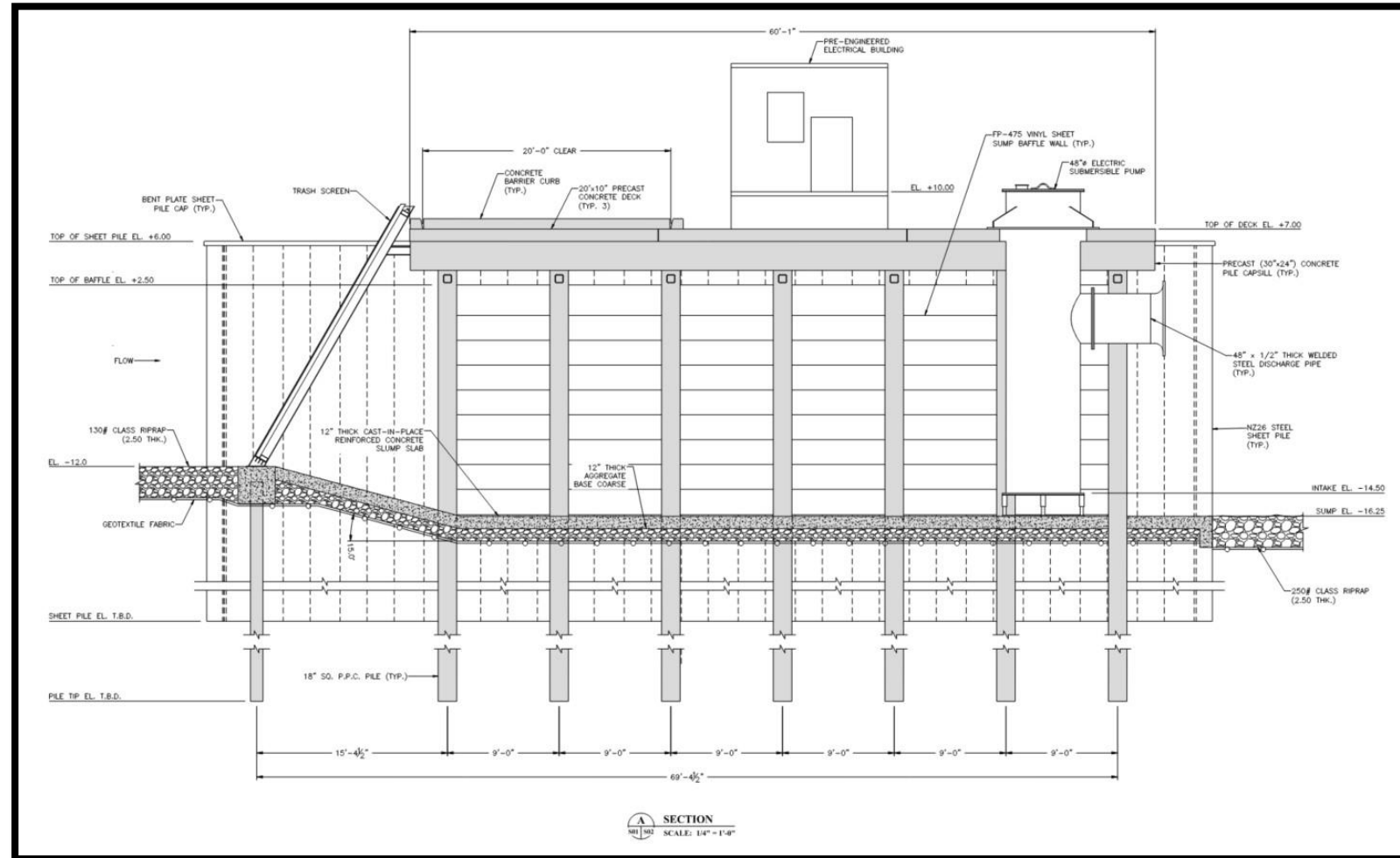






# Project Features Pump Station

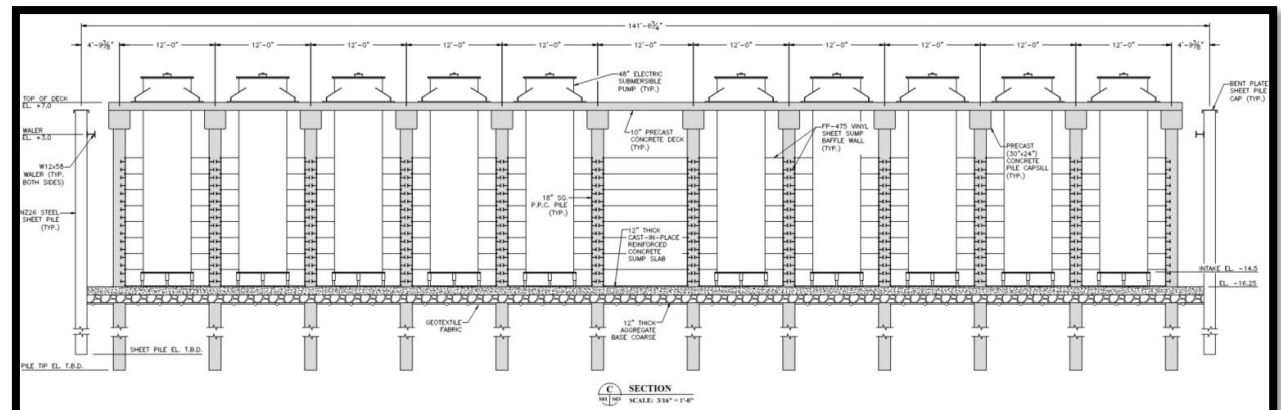
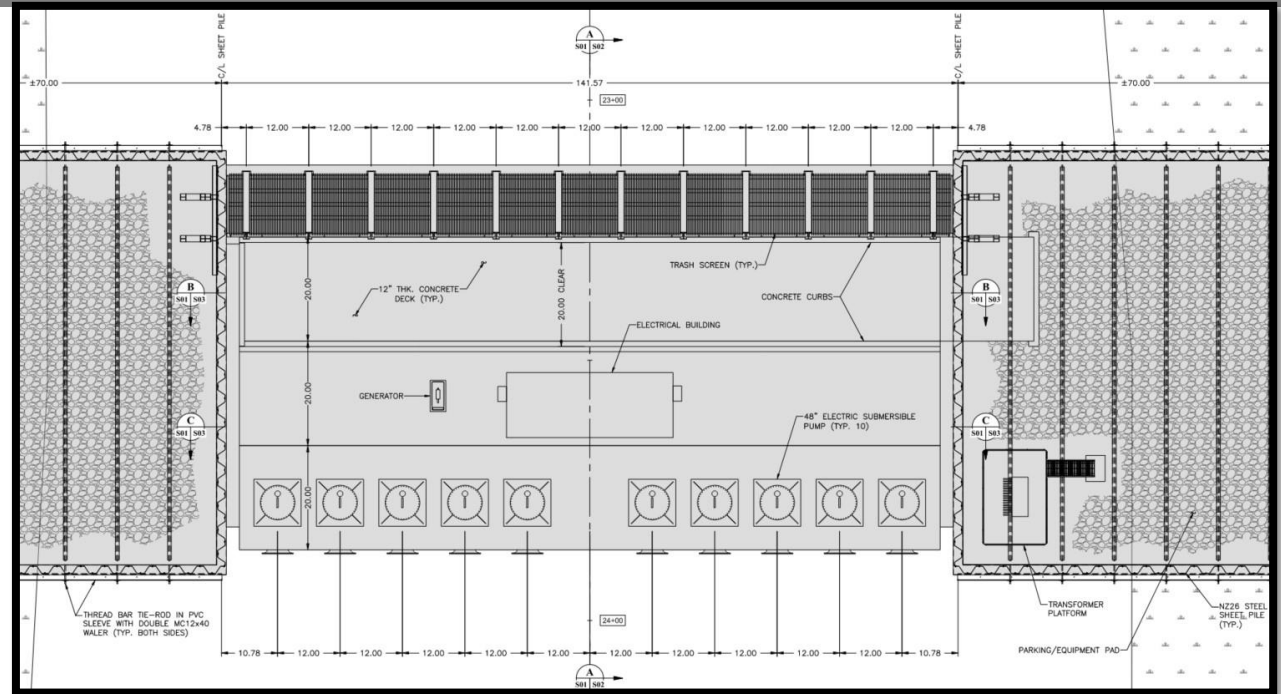
- **Automated trash screen**
  - **140 LF**
  - **EL -12' to +7'**
- **18" square concrete piles**
  - **Sump and deck**
  - **10,000 LF**
- **12" thick reinforced concrete sump slab**
- **FP-475 Vinyl sheet baffle walls**
  - **TOW = EL +2.5'**
  - **TIP ~ EL -20'**
- **HSS 8x8x1/2" beams**





# Project Features Pump Station

- **12" thick concrete deck**
  - **TOW = EL +7'**
- **(10) – 48" electric submersible pumps**
  - **120 cfs ea.**
  - **200 HP**
- **Electrical building**
- **80KW generator**







# Summary of Preliminary Quantities



**ENGINEERING** LLC

Item	Description	Unit	Estimated Quantity		Item	Description	Unit	Estimated Quantity
1	Mobilization & Demobilization	1	LS		10	Geotextile Fabric	10,500	SY
2	Demolition and Removal of Obstructions	1	LS		11	Steel H-Piles	2,100	LF
3	Boat Launch	1	LS		12	18" Precast Concrete Piles	10,000	LF
4	Utility Relocations	1	LS		13	Trash Screens (Automated and non-Automated)	2	EA
5	Electric Submersible Pumps	10	EA		14	Structural Concrete	1,000	CY
6	Channel Dredging	220,000	CY		15	Structural Steel	36	TNS
7	Rip Rap	3,500	TNS		16	Steel Sheet Pile Wall	45,000	SF
8	Embankment	6,600	CY		17	Vinyl Baffle Walls	10,600	SF
9	Aggregate	1,000	CY		18	Chain Link Fencing	1,000	LF



# Project Schedule

- **Preliminary Package Submittal: May 2023**
- **Anticipated Final Design Package Submittal: November 2024**
- **Anticipated Permit: December 2024**
- **Anticipated Bid Advertisement: January 2025**
- **Construction Duration: 18-24 months**





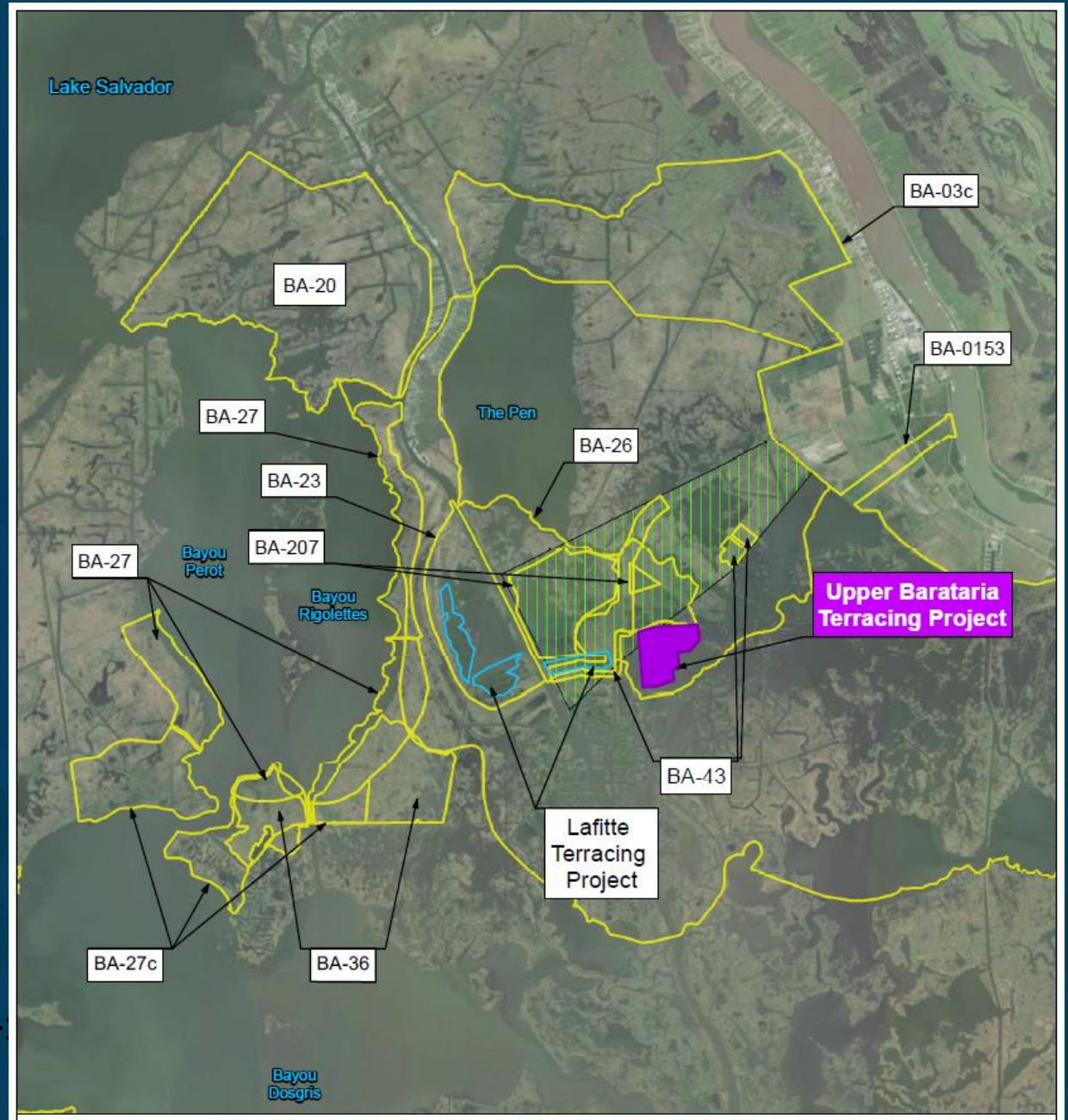
UPPER BARATARIA  
TERRACING

**CPRA Coastal Industry Week**  
**March 26, 2024**



# Project Overview

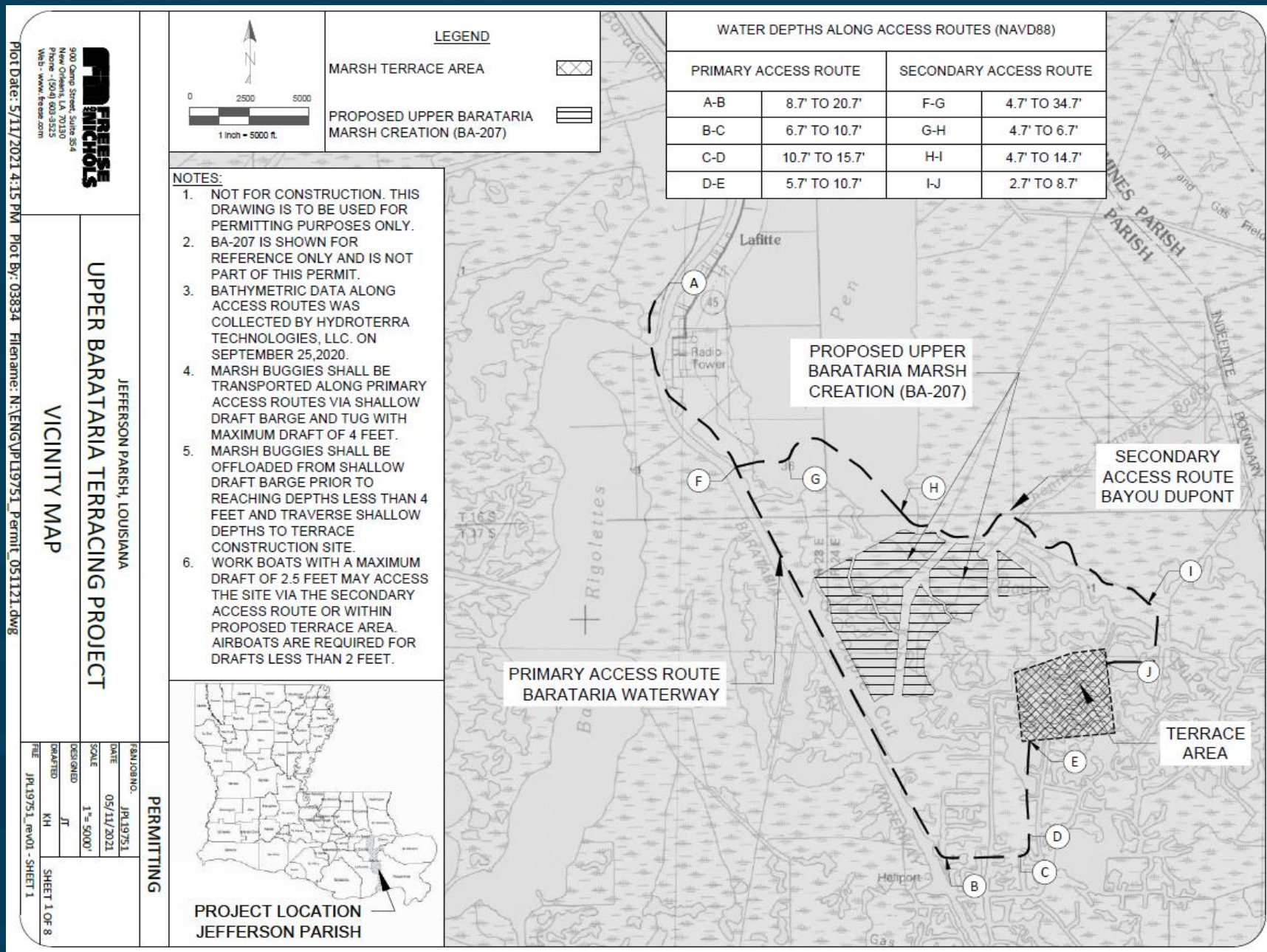
- Upper Barataria Terracing Project
- Lead: Jefferson Parish Government
- Engineer: Freese and Nichols, Inc.
- Landowner: Parish School Board
- Funding Sponsor: NFWF (2022 NCRF)
- 450 Acres of Marsh Restoration
- 33,000 Linear Feet of Earthen Terraces
- Stabilized with Native Vegetation
- Joint Permit Received (DNR/USACE)





# Access Routes

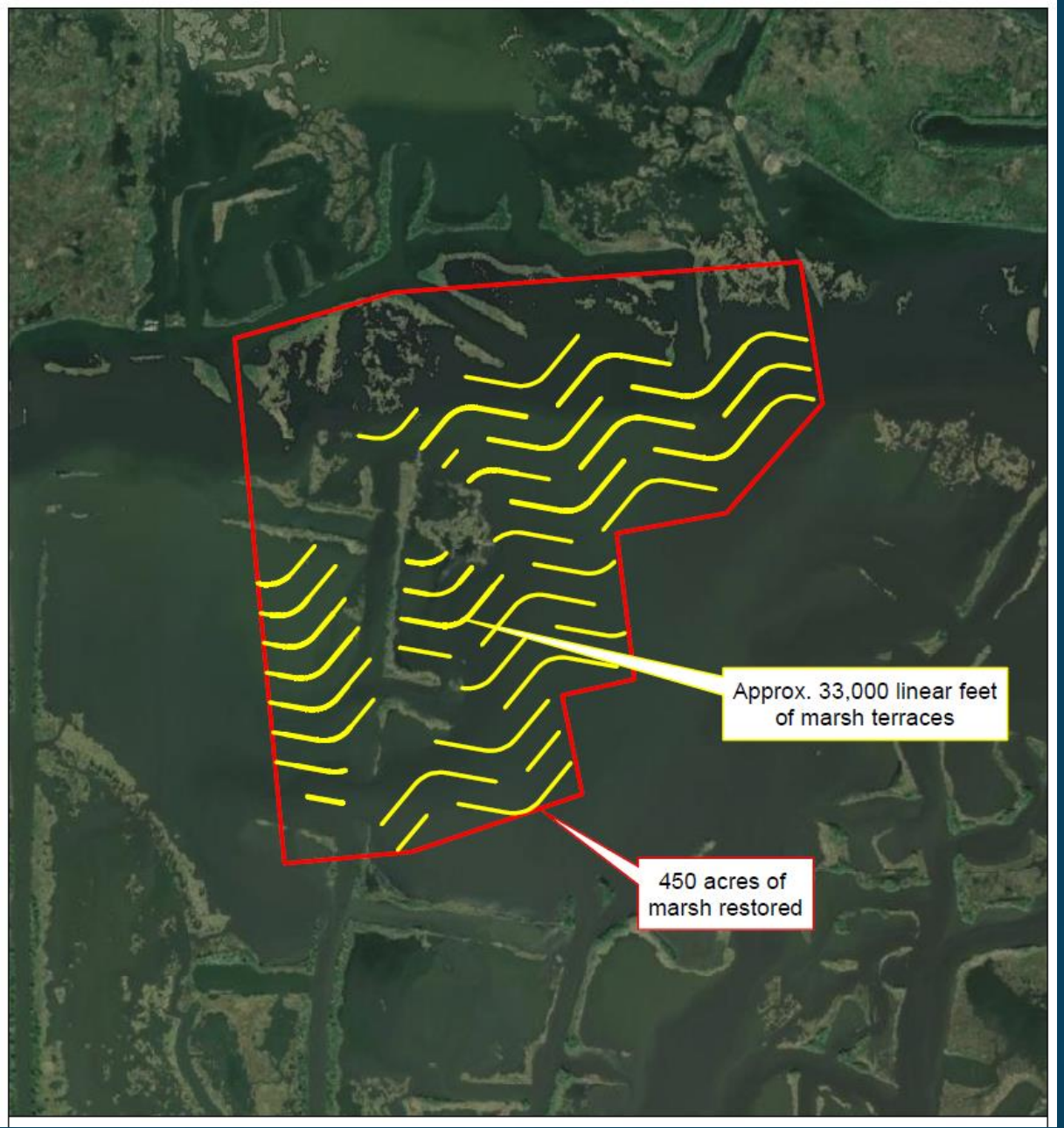
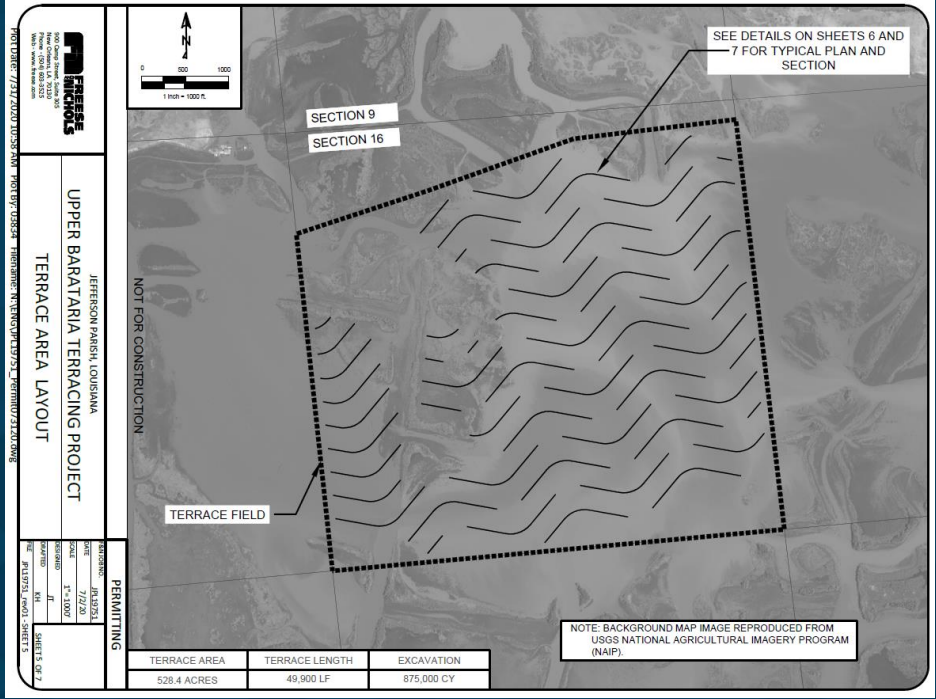
- Lafitte: 28 miles
- Primary:
  - Barataria Waterway
- Secondary:
  - Bayou Dupont





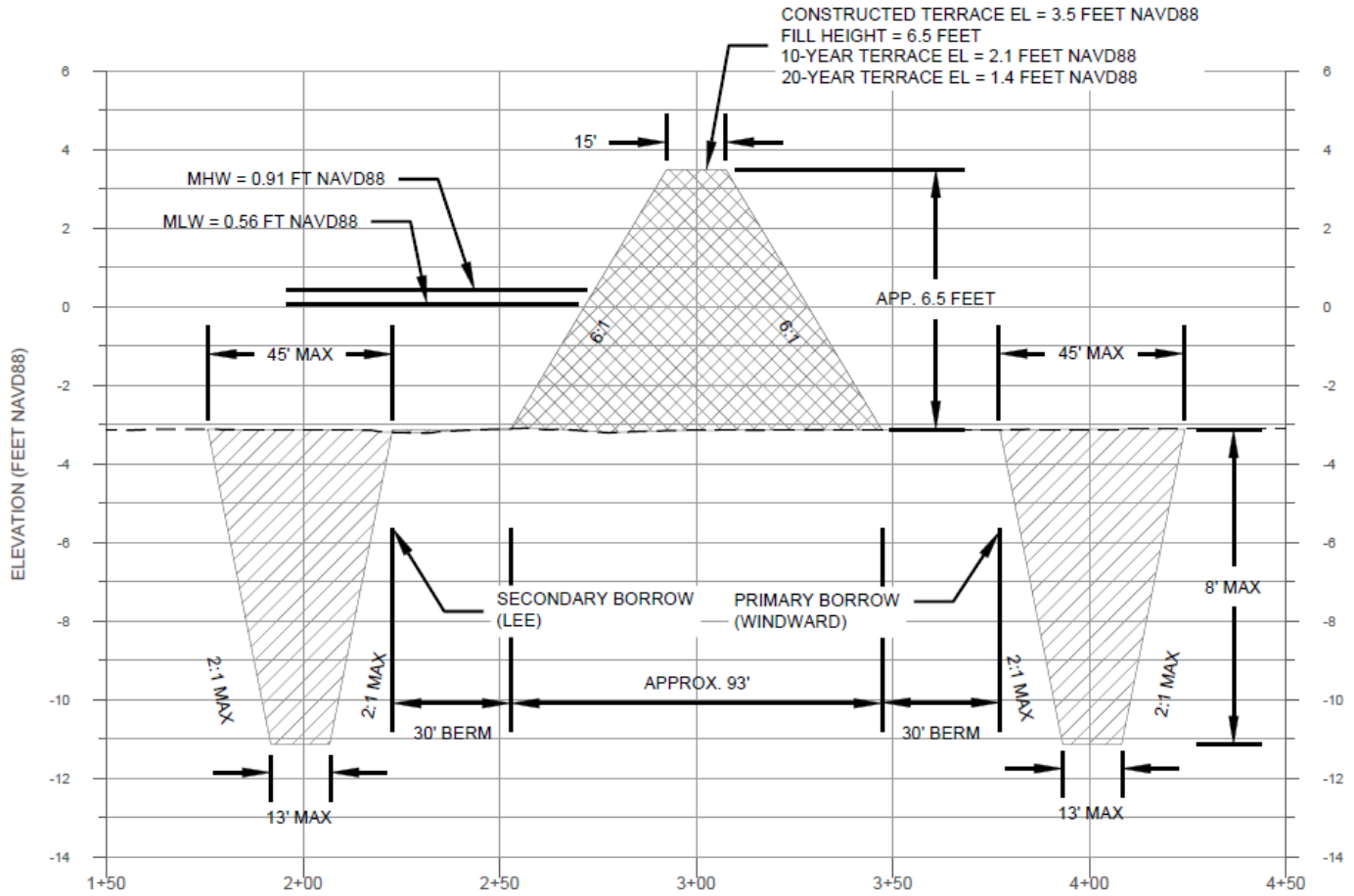
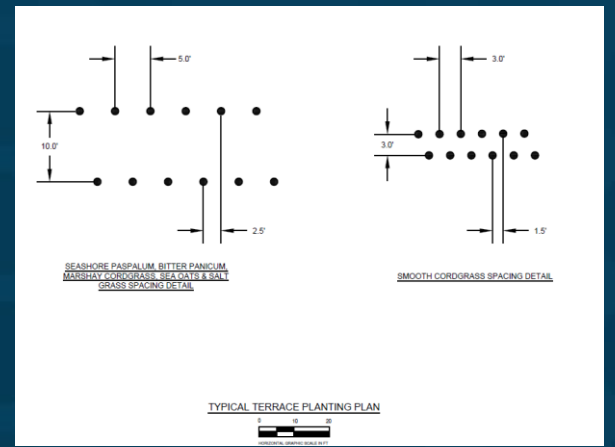
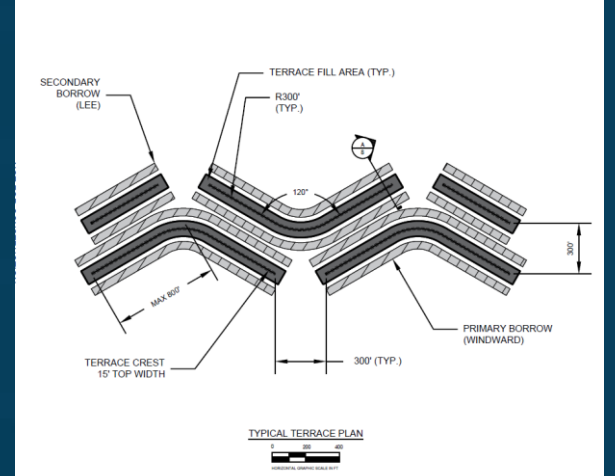
# Terrace Design

- Design to Maximize Footprint on School Board Property
  - 49,900 LF Terraces
  - 528.4 Acres Marsh Habitat





Terrace Side Slopes 6:1  
 Crown Width of 15 FT  
 Top Elevation of 3.5 FT



**LEGEND**

EARTHEN TERRACE

EARTHEN TERRACE BORROW AREA

- NOTES:**
- TERRACES TO BE CONSTRUCTED IN OPEN WATER AREAS ONLY.
  - TERRACE LENGTHS AND ORIENTATION TO BE ADJUSTED TO AVOID EXISTING MARSH VEGETATION.
  - BORROW TO BE EXCAVATED FROM ONE OR BOTH TERRACE SIDES AS NEEDED FOR CONSTRUCTION.
  - TERRACES TO BE PLANTED WITH SMOOTH CORDGRASS (*SPARTINA ALTERNIAFLORA*) PLUGS SPACED 3' ON CENTERS BELOW MLW. MARSHAY CORDGRASS (*SPARTINA PATENS*) TO BE PLANTED 5'X10' O.C. ABOVE MLW.
  - WATER AND MARSH LEVEL DATA DERIVED FROM COASTAL REFERENCE MONITORING STATION (CRMS) 0248. EXISTING MARSH ELEVATION PER CRMS 0248 = 0.77 FEET NAVD88.

**FREESE & NICHOLS**  
 900 Camp Street, Suite 354  
 New Orleans, LA 70130  
 Phone - (504) 605-3325  
 Web - www.freenichols.com

UPPER BARATARIA TERRACING PROJECT  
 TYPICAL TERRACE SECTION  
 JEFFERSON PARISH, LOUISIANA

PERMITTING  
 PROJECT NO. JPL19751  
 DATE 05/11/2021  
 SCALE 1"=40'  
 DESIGNED JT  
 QUANTIFIED KH  
 SHEET 8 OF 8  
 FILE JPL19751\_rev01-SHEET 7

PLOT DATE: 5/11/2021 4:24 PM PLOT BY: 03834 filename: N:\ENGVPL\19751\_Permit\_051121.dwg

# Estimated Quantities (Key Features)

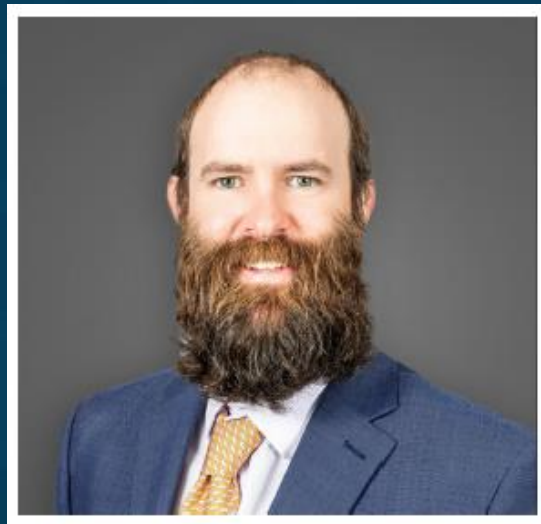
Item No.	Description	Unit	Quantity
1	Survey	LS	1
2	Geotechnical Analysis	LS	1
3	Cultural Resource Analysis	LS	1
4	Earthen Terraces	LF	33,000
5	Dredge Volume	CY	875,000
6	Dredge Placement Area	AC	70
7	Vegetative Plantings	AC	12



# Project Schedule

Consistency Determination Received (DNR)	June 28, 2021
Construction Permit Received (USACE)	May 23, 2022
NFWF Project Period Start	March 1, 2023
Final Engineering & Design	May / June 2024
Anticipated Bid Advertisement	August / September 2024
Construction Duration	120 Days
Monitoring Duration	1 Year

# QUESTIONS?



## LOCAL POC's:

Nina Reins: (504) 478-1065, [nina.reins@freese.com](mailto:nina.reins@freese.com)

Matt Salmon: (504) 291-3496, [matthew.salmon@freese.com](mailto:matthew.salmon@freese.com)

Kiara Horton: (504) 300-8267, [kiara.horton@freese.com](mailto:kiara.horton@freese.com)

Ryan Fikes: (512) 617-3141, [ryan.fikes@freese.com](mailto:ryan.fikes@freese.com)





# 2024 CPRA Coastal Industry Week

## Coastal Industry Briefing and Construction Project Forecast – Partner Led

March 26<sup>th</sup>, 2024  
2:00pm – 3:30pm CST

### *Virtual Meeting*

Zoom URL: <https://us06web.zoom.us/j/82284982515>  
Meeting ID: 822 8498 2515  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836

- I. Opening Remarks**
- II. Upcoming Risk Reduction Projects to be Bid for Construction (2:00 pm – 2:45 pm)**
  - a. Upcoming TLCD Projects: *Reggie Dupre, TLCD; David Boudreaux, Delta Coast Consultants, LLC*
  - b. Upcoming NLLD Projects: *Arthur Ostheimer Jr., North Lafourche Levee District*
  - c. Upcoming SLLD Projects: *Joe Picciola, Picciola & Associates, Inc.; Neil Angelette, Angelette Design, LLC; John Plaisance, GIS Engineering, LLC*
  - d. Upcoming LAILD Tidal Flood Risk Reduction Projects: *Miles Garriott, Evans-Graves Eng., Inc.*
- III. Upcoming Restoration Projects to be Bid for Construction (2:45 pm – 3:20 pm)**
  - a. ME-0032 South Grand Chenier Baker Tract Marsh Creation Project: *Breese Barnes, NRCS*
  - b. Cameron Gulf Shoreline Protection Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - c. Mermentau Basin Inundation Relief Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - d. Upcoming Vermilion Parish Projects: *Nick Sonnier, Sellers & Associates, Inc.*
  - e. Grand Bayou Freshwater Reintroduction: *Kevin Dezarn, GIS Engineering, LLC*
  - f. Catfish Lake Living Shoreline – Lafourche Parish: *Tyler Ortego, Natrx; Nick LeBlanc, Danos*
  - g. Upper Barataria Terracing: *Matt Salmon, Freese & Nichols, Inc.*
- IV. Other Project Presentations (3:20 pm – 3:30 pm)**
  - a. Upcoming Ducks Unlimited Projects: *Brad Lambert, Ducks Unlimited*
  - b. Sunset Park Restoration Project: *Andrew Woodroof, Digital Engineering*
  - c. Fourchon Beach Maintenance Restoration and Protection Project: *Bryce Autin, Greater Lafourche Port Commission*
- V. Questions and Discussion**
- VI. Adjourn**



# DUCKS UNLIMITED

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Upcoming South LA DU Projects  
CPRA Industry Day

Brad Lambert, PE

Regional Engineer - South Louisiana





# Notes/ Overview



- Thanks to CPRA for allowing us to participate and being a partner on some of these projects.
- Presentation includes:
  - 7 of our larger projects coming up within the next few months
  - Relatively smaller projects vs. one large project
  - All located within south LA
  - Most are marine type construction
  - Ongoing with design and/or permitting currently for most of these projects



# Types of Projects



Goal = Substantial Completion  
by June 30, 2025, with  
exception of HWY 1 terracing

- Structures/Embankment
  - Marsh Island WCS & Breach Repairs
  - Lake Hackberry Shoreline Restoration
  - Boyd Allen WCS



- Ridge Restoration
  - Carencro Bayou

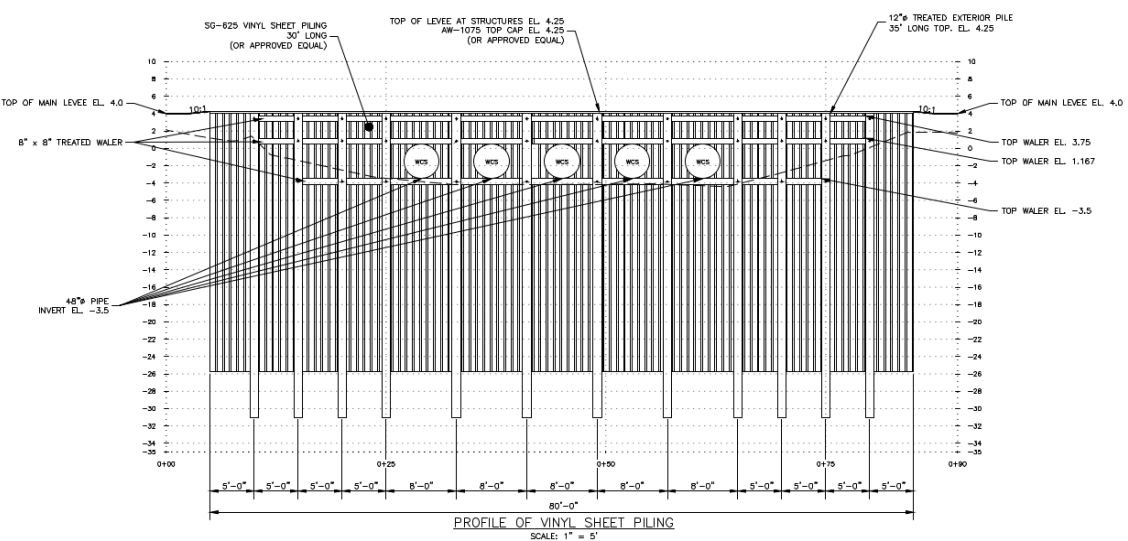
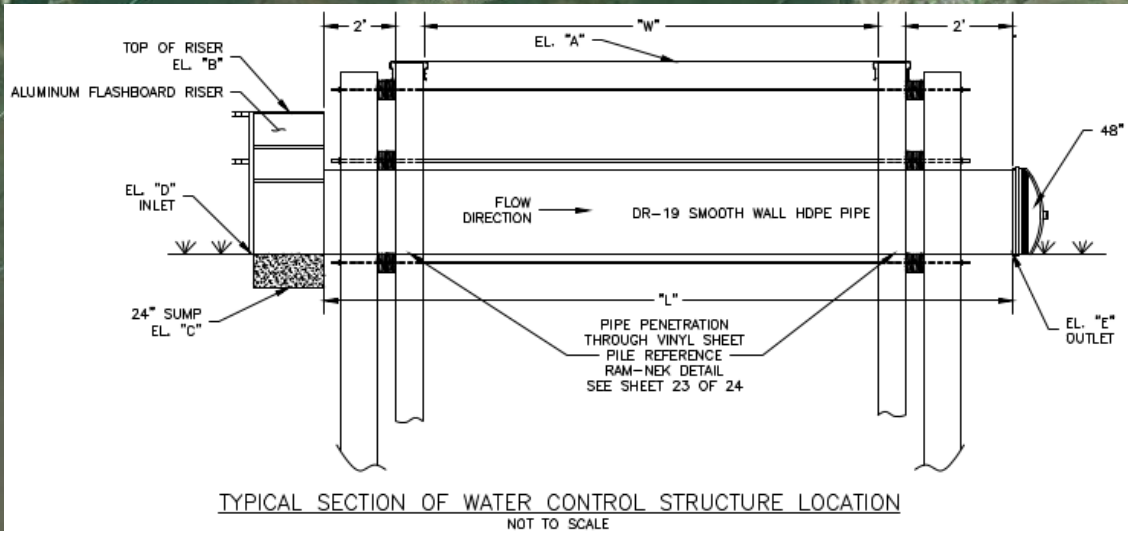
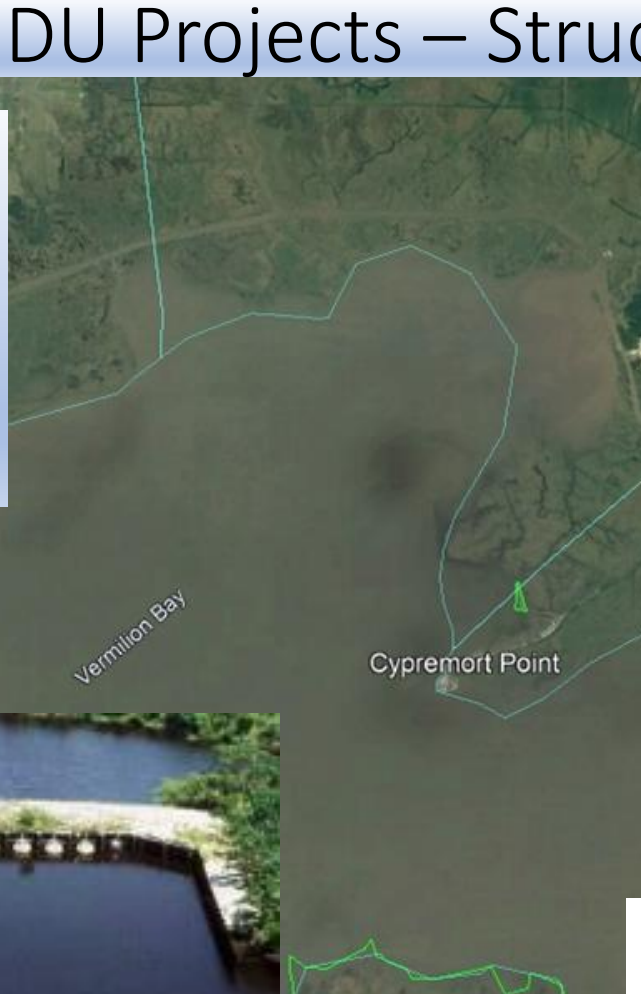


- Earthen Terraces
  - Bayou L'Ours PH V
  - Meraux Foundation PH II
  - HWY 1 Terraces & Living Shoreline



# Upcoming DU Projects – Structures/Embankment

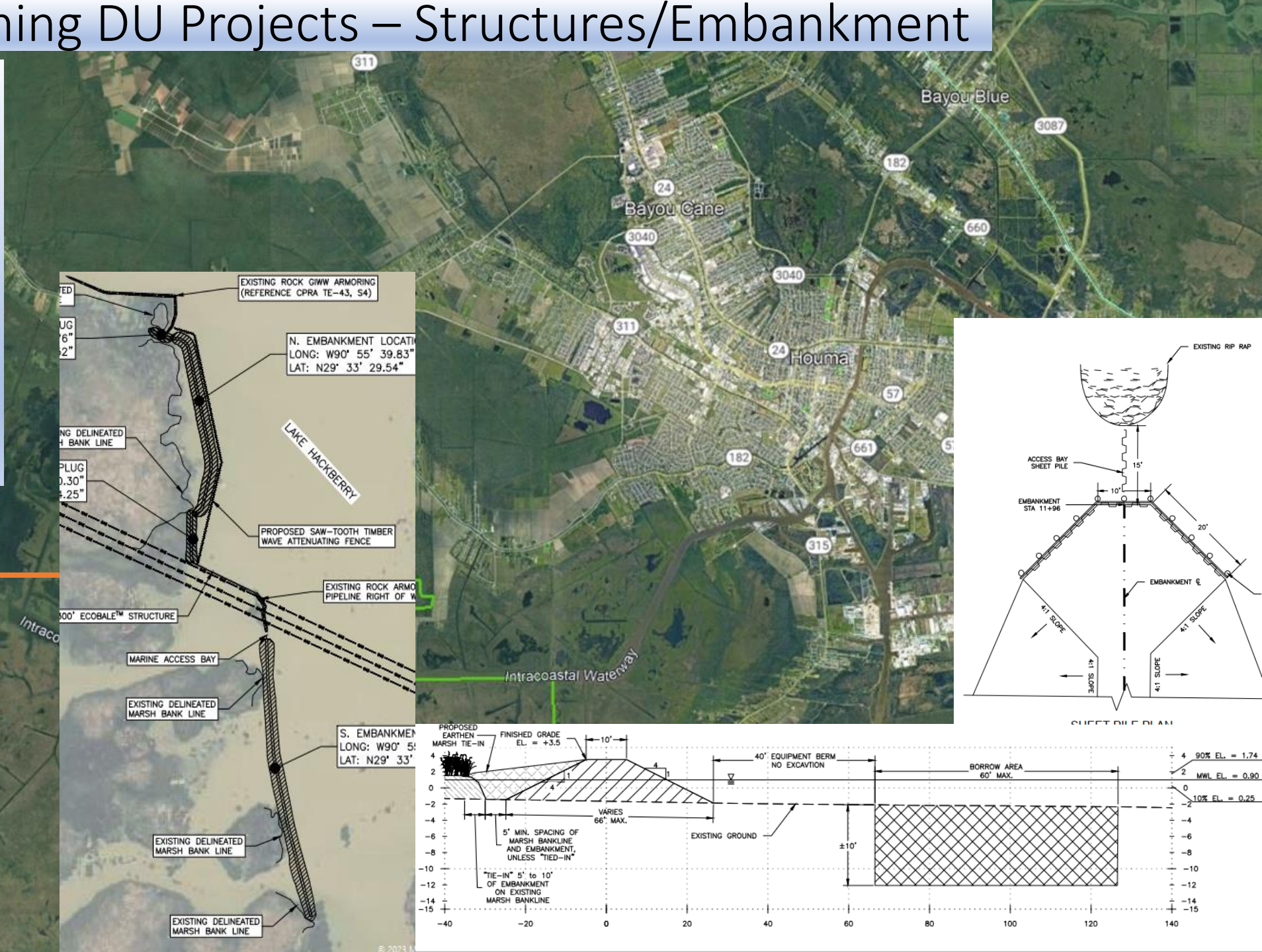
- Marsh Island Refuge – Big Impoundment
  - Remove and replace existing structure
  - Double sheet pile wall w/ integrated culverts, flap gates & stoplog structures
  - Marine based operation
  - Permitted
  - Design in progress
  - Bid Summer





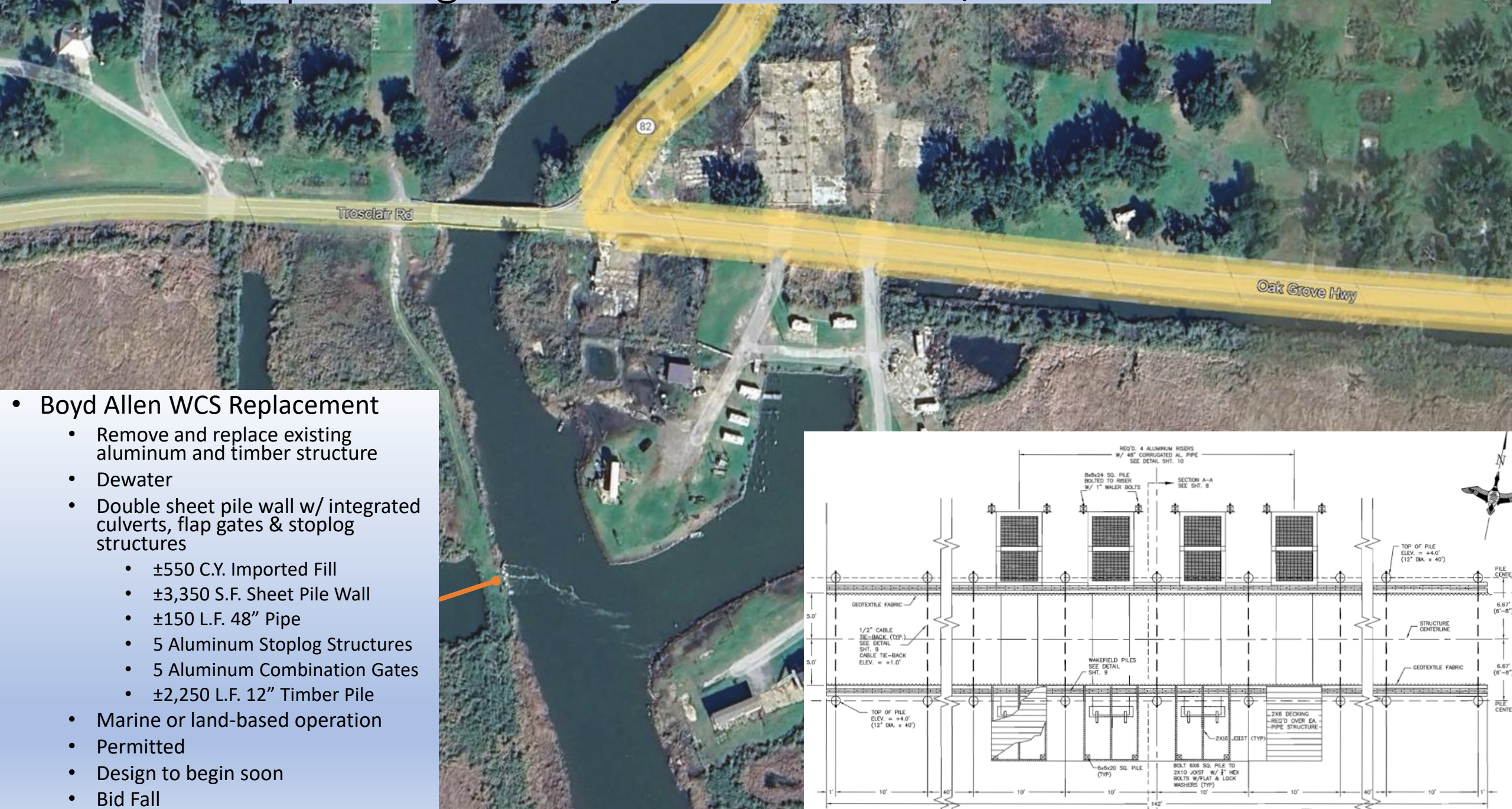
# Upcoming DU Projects – Structures/Embankment

- Lake Hackberry Shoreline Restoration
  - Restore Lake Hackberry shoreline by mechanically dredging adjacent barrow
  - 20,000+ C.Y. of fill min. with potential for additional areas.
  - ± 3,000 S.F. of steel sheet pile to form boat access bay
  - Potentially adding timber pile wave attenuating fence based on final cost estimate.
  - Marine based operation
  - Permitted
  - Design in progress
  - Bid Summer

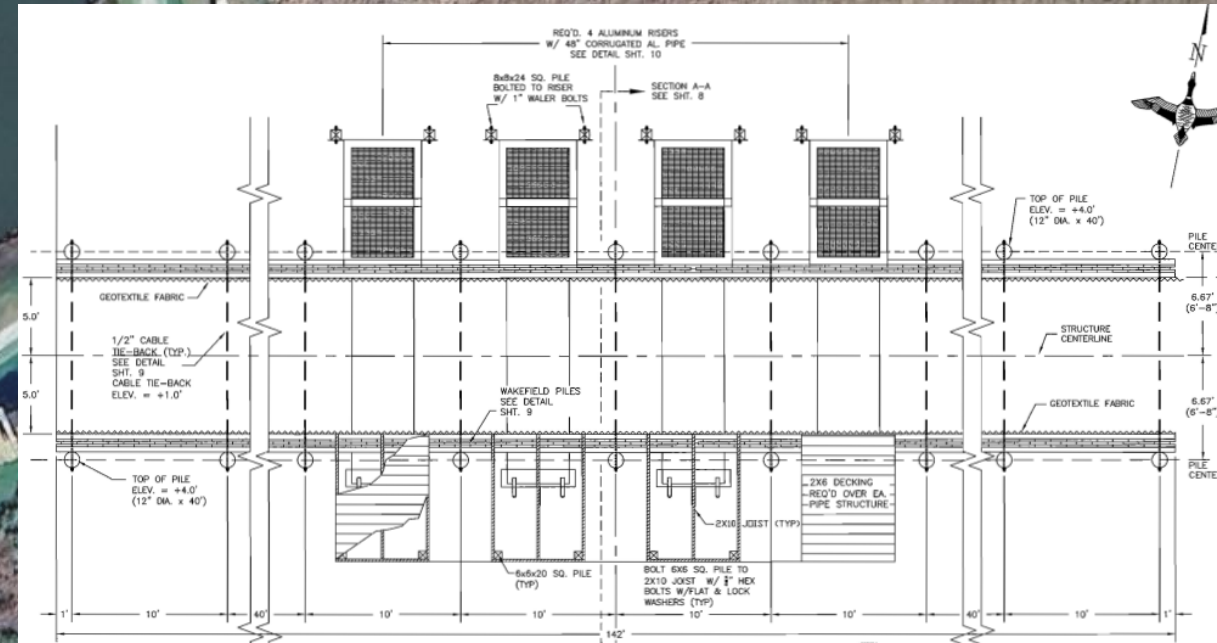




# Upcoming DU Projects – Structures/Embankment

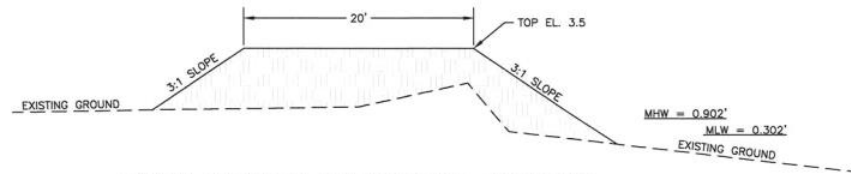
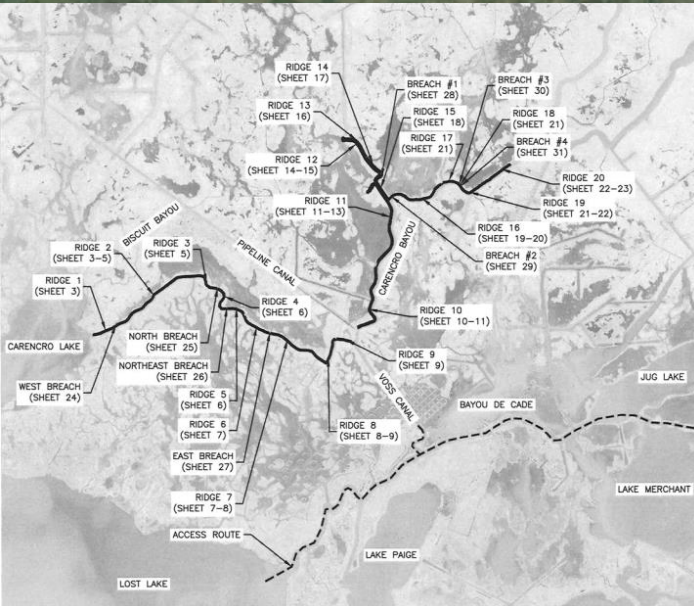


- Boyd Allen WCS Replacement
  - Remove and replace existing aluminum and timber structure
  - Dewater
  - Double sheet pile wall w/ integrated culverts, flap gates & stoplog structures
    - ±550 C.Y. Imported Fill
    - ±3,350 S.F. Sheet Pile Wall
    - ±150 L.F. 48" Pipe
    - 5 Aluminum Stoplog Structures
    - 5 Aluminum Combination Gates
    - ±2,250 L.F. 12" Timber Pile
  - Marine or land-based operation
  - Permitted
  - Design to begin soon
  - Bid Fall





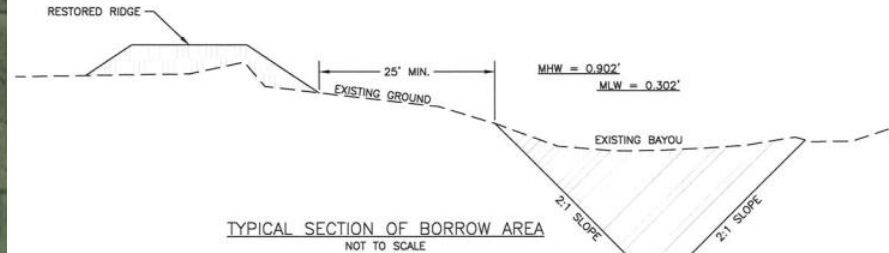
# Upcoming DU Projects – Ridge Restoration



TYPICAL SECTION OF PROPOSED RIDGE RESTORATION  
NOT TO SCALE

RIDGE ALIGNMENTS		
RIDGE #	LENGTH	EMBANKMENT (C.Y.)
1	1,556	4,656
2	6,772	19,924
3	1,216	4,149
4	1,938	4,970
5	1,225	3,721
6	1,935	6,449
7	3,881	10,998
8	1,925	5,600
9	962	3,282
10	4,792	14,905
11	6,366	18,980
12	5,072	15,326

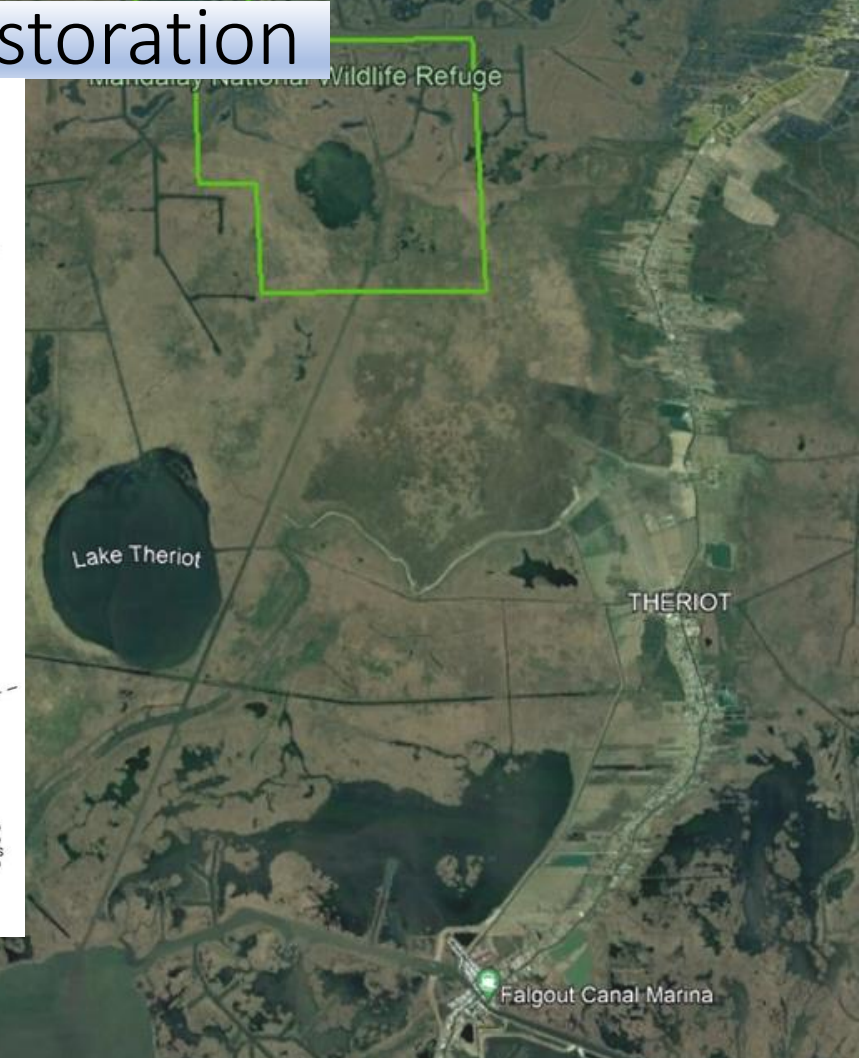
RIDGE ALIGNMENTS (CONT.)		
RIDGE #	LENGTH	EMBANKMENT (C.Y.)
13	2,063	6,111
14	1,649	6,336
15	1,952	6,248
16	3,719	14,276
17	1,101	2,725
18	154	580
19	1,617	5,187
20	2,775	6,343
TOTAL	52,670	160,766



TYPICAL SECTION OF BORROW AREA  
NOT TO SCALE

BORROW AREAS		
BORROW #	LENGTH	EXCAVATION (C.Y.)
1	21,880	226,203
2	15,244	217,007
3	847	4,265
4	9403	93,456
TOTAL	47,374	540,931

BORROW AREA 1 EL. -15.0  
BORROW AREA 2 EL. -20.0  
BORROW AREA 3 EL. VARIES  
BORROW AREA 4 EL. -15.0



## • Carenacro Bayou Ridge Restoration

- Approximately 10 miles of ridge restoration along Carenacro Bayou
- Mechanical/bucket dredging method using borrow from adjacent bayou
- Currently in final stages of permitting
- Bid later half of this year







# Upcoming DU Projects – Terraces

- Meraux Foundation PH II
  - 70,000 L.F. of Terraces Permitted
  - Permitting Ongoing
  - Bid Fall
  - Amphibious type excavation



Main Outfall Canal

LOWER NINTH WARD

39

HOLY CROSS

Arabi

39

Chalmette

39

Mississippi River

46

47

47

46

428

N: 29° 59' 08.87"  
W: 89° 58' 43.55"

N: 29° 59' 05.27"  
W: 89° 58' 55.27"

N: 29° 58' 42.50"  
W: 89° 59' 07.98"

N: 29° 58' 35.78"  
W: 89° 58' 47.92"

N: 29° 58' 17.30"  
W: 89° 58' 33.19"

N: 29° 58' 11.82"  
W: 89° 58' 24.01"

N: 29° 58' 00.21"  
W: 89° 58' 29.79"

N: 29° 58' 58.38"  
W: 89° 58' 08.03"

N: 29° 58' 42.32"  
W: 89° 58' 17.69"

N: 29° 58' 17.27"  
W: 89° 57' 46.14"

N: 29° 57' 48.93"  
W: 89° 57' 59.97"

TERRACE FIELD CENTRAL LOCATION  
LATITUDE: N 29° 58' 32.13"  
LONGITUDE W 89° 58' 21.37"

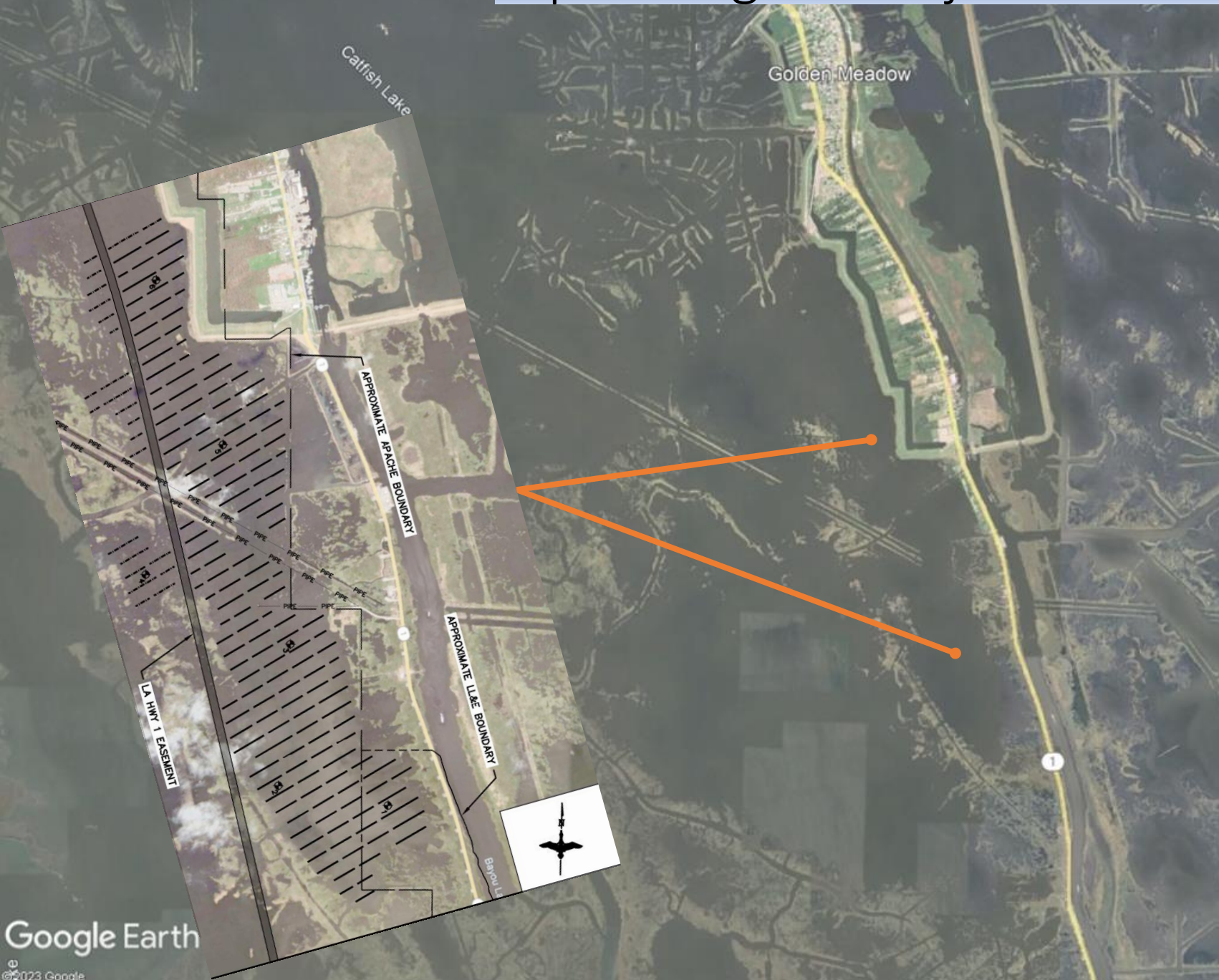
MARSH BUGGY & BOAT ACCESS ROUTE (1650')  
MEAN HIGH WATER DEPTH: 4.2'  
MEAN LOW WATER DEPTH: 3.0'

GRAVEL ENTRANCE ROAD  
TO PARISH BOAT LAUNCH

HWY 47 (PARIS RD.)  
5.4 MILES TO I-10



# Upcoming DU Projects – Terraces



- LA HWY 1 Terraces & Living Shoreline
  - 88,650 L.F. of Terraces Permitted
  - ± 3,333 Living Shoreline Modules to be placed on terrace slope
  - Permits Received
  - Design to begin shortly
  - Bid end of this year/early next year
  - Amphibious type excavation





## DU Mission

**“Ducks Unlimited Conserves, Restores, and Manages Wetlands and Associated habitats for North America’s Waterfowl. These Habitats also Benefit other Wildlife and People.”**



Brad Lambert

Ducks Unlimited

Regional Engineer

Lafayette, LA

[blambert@ducks.org](mailto:blambert@ducks.org)

# Questions?



# SUNSET PARK REHABILITATION

LAKE MAUREPAS

## Coastal Industry Briefing & Construction Project Forecast – Partner Led

March 26th, 2024



# Project Goal

St. John the Baptist Parish will design, plan, and restore 1.5 acres of Sunset Park utilizing the CPRA Partnership Fund.





# Project Objectives

01



## Restore

- Restore 1.5 acres on western side of Pass Manchac.

02



## Plant

- Plant native vegetation

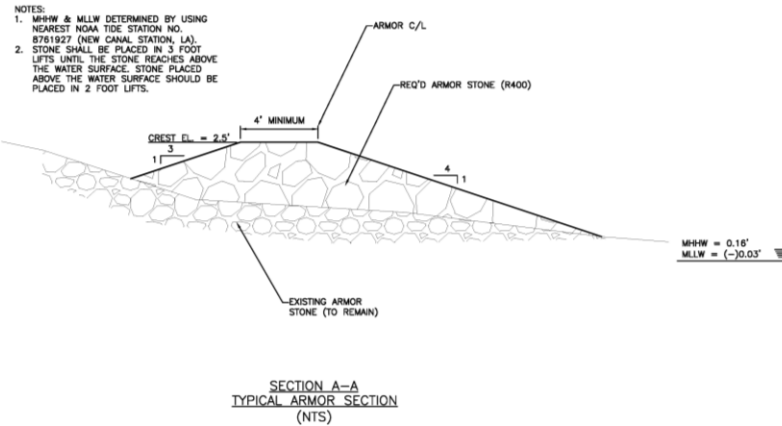
# Project Scope

## GENERAL NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM ON 1988 (NAVD 88). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ANY OBSERVED DISCREPANCIES BETWEEN PRE-CONSTRUCTION SURVEY AND PROJECT PLANS NEED TO BE DOCUMENTED AND PROVIDED TO ENGINEER FOR ACCEPTANCE.
3. TOLERANCES IN SHORELINE PROTECTION THICKNESS AND ELEVATION SHALL NOT BE GREATER THAN +0.5 AND -0.5.
4. TOPOGRAPHIC/BATHYMETRIC SURVEY WAS NOT AVAILABLE FOR SITE DESIGN. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION SURVEY AND OVERLAY SHORELINE PROTECTION SIGN TEMPLATE FOR VERIFICATION OF QUANTITIES PRIOR TO PLACEMENT OF RIP RAP.
5. VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE ASSUMED BASED ON EXISTING SHORELINE SLOPES OBSERVED AT THE SITE. RIP RAP CROSS SECTIONS WILL BE SURVEYED BY THE CONTRACTOR BEFORE AND AFTER FOR VERIFICATION. ALL SURVEYING AND MEASUREMENTS BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED AND REVIEWED BY THE PROJECT ENGINEER.

## LIST OF ABBREVIATIONS:

C/L	CENTERLINE
EL	ELEVATION
E	EASTING
N	NORTHING
LA	LOUISIANA
LS	LUMP SUM
MHHW	MEAN HIGHER HIGH WATER
MLLW	MEAN LOWER LOW WATER
NO	NUMBER
STA.	STATION
SF	SQUARE FEET



## Installation

- Rip rap for the first layer of shoreline protection.

## Plant

- Native vegetation for stabilization and ecosystem restoration.

## Construction Budget

- \$75,000.00

SUMMARY OF ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LS	1
2	FURNISH AND INSTALL ARMOR STONE (R400)*	TON	400
3	SURVEYING	LS	1
4	TEMPORARY SIGNS AND BARRICADES	LS	1

\* TONS IN ARMOR STONE (R400) FOR THIS CONCEPTUAL COST ESTIMATE IS ASSUMED TO BE 1.4 TIMES THE CUBIC YARDS OF ARMOR STONE.





# Project Timeline

March 2024

Design completion.

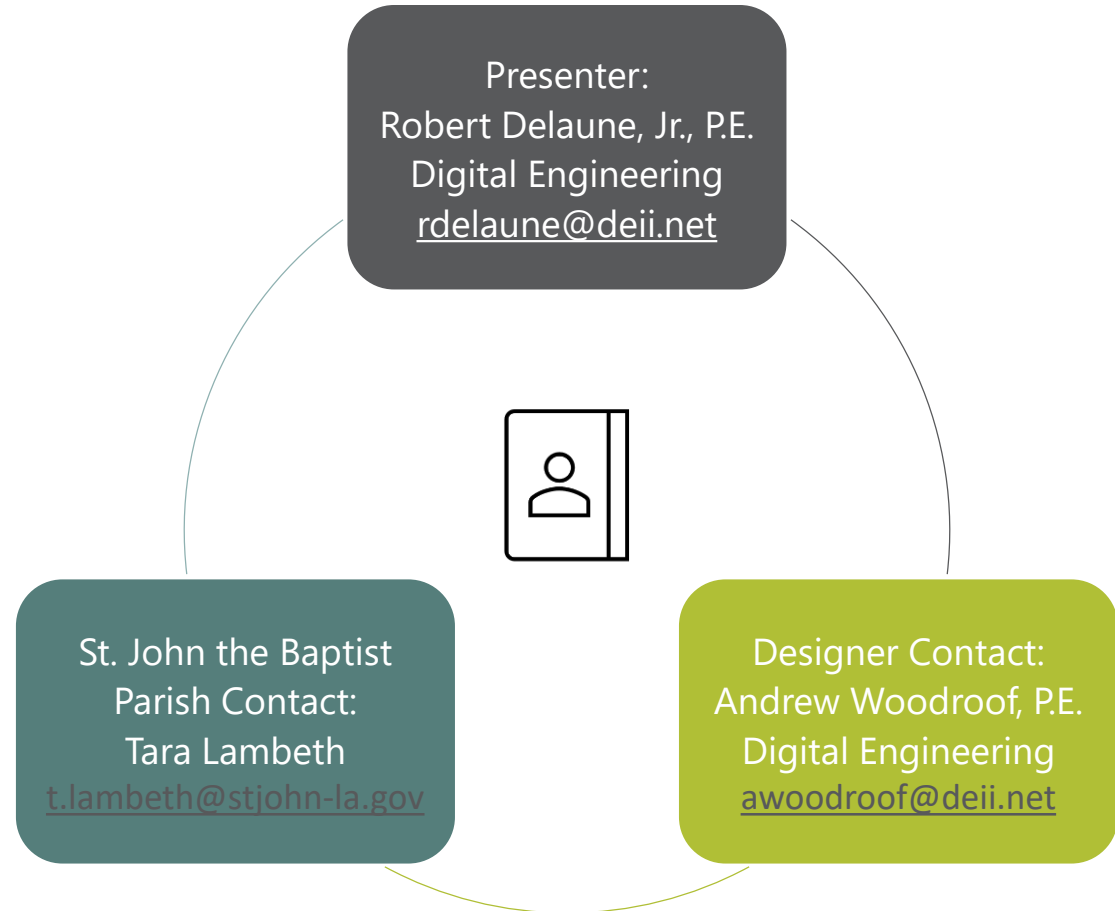
April 2024

Apply for permits.

Fall 2024

Request quotes for  
construction.

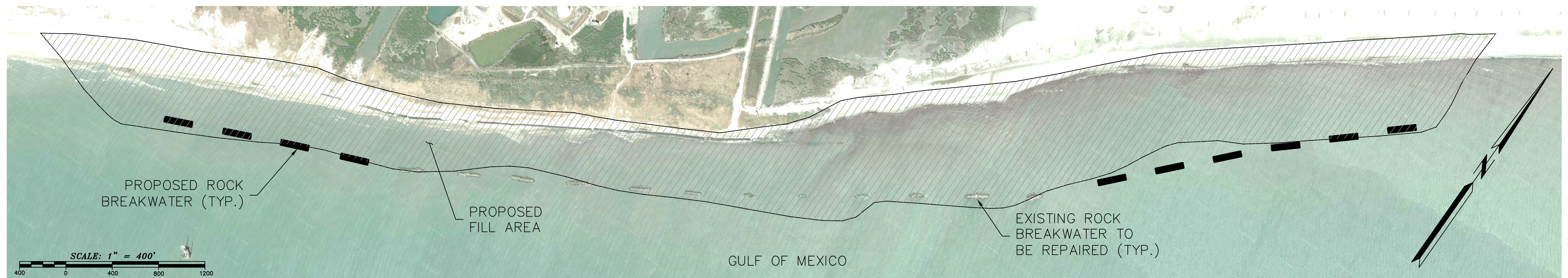
# Project Contacts







OVERALL SITE PLAN



FOURCHON BEACH  
(APRIL 28, 2022)



NO.	REVISION	DATE

**ANGELETTE DESIGN**  
Consulting Engineers & Surveyors

PHONE: 985-798-7700    13379 HWY 3235 - LAROSE, LA 70373    www.angelette.com

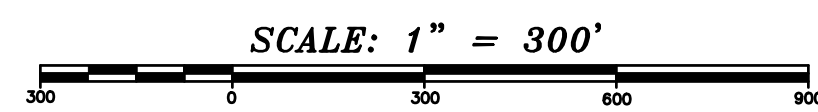
DESIGNED BY N.B.A.	DRAWN BY S.M.G.	CHECKED BY N.B.A.
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STAMP  
**PRELIMINARY**  
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NEIL B. ANGELETTE, P.E.  
LA. REG. NO. 28236  
CIVIL ENGINEER

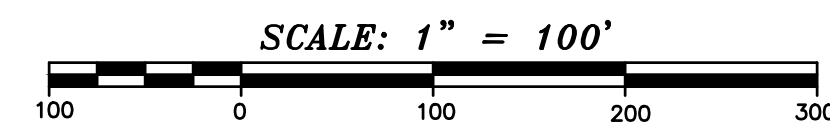
GREATER LAFOURCHE PORT COMMISSION  
FOURCHON BEACH RENOURISHMENT PROJECT  
FOURCHON, LOUISIANA    LAFOURCHE PARISH

SCALE SHOWN  
DATE  
PROJECT  
SHEET NO.  
3-18-24  
160025  
1 OF 3

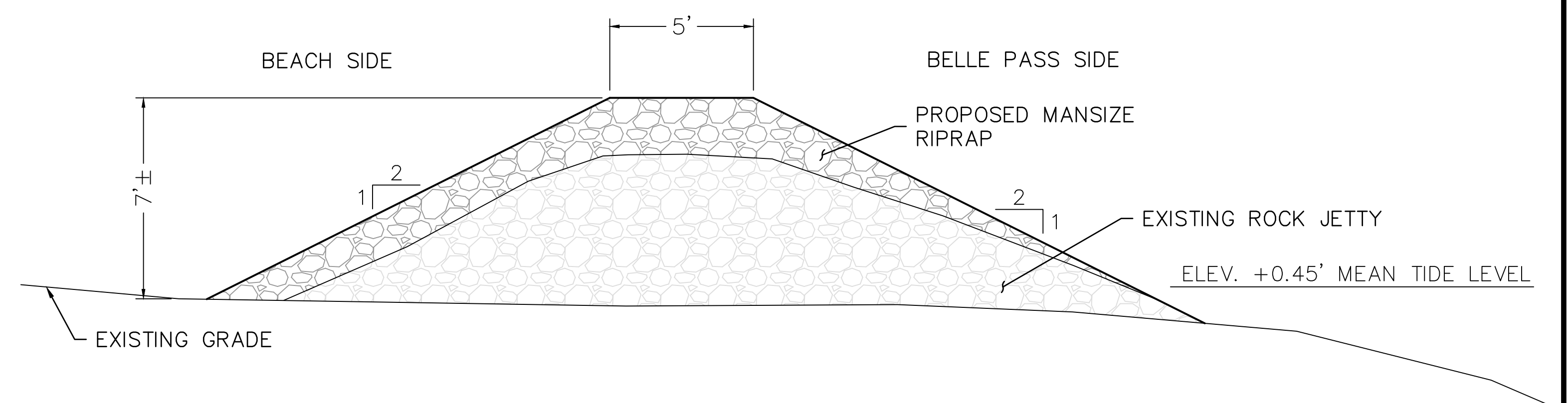




WEST JETTY REPAIR  
OVERALL SITE PLAN



WEST JETTY REPAIR  
DETAILED SITE PLAN



TYPICAL JETTY REPAIR  
SECTION

NO.	REVISION	DATE

**ANGELETTE DESIGN**  
Consulting Engineers & Surveyors

PHONE: 985-798-7700 13379 HWY 3235 - LAROSE, LA 70373 www.angelette.com

DESIGNED BY N.B.A.	DRAWN BY S.M.G.	CHECKED BY N.B.A.
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CIVIL ENGINEER

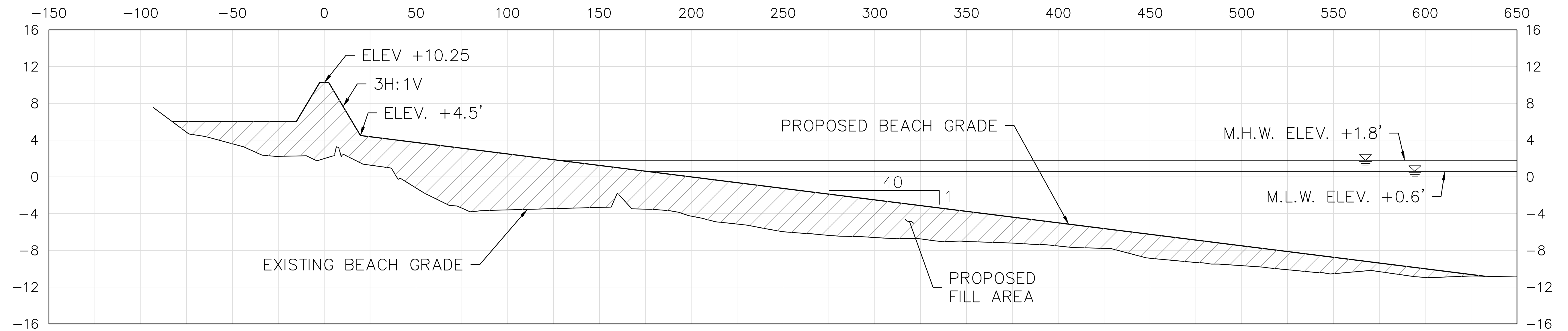
GREATER LAFOURCHE  
PORT COMMISSION

WEST JETTY REPAIR PLAN AND SECTION

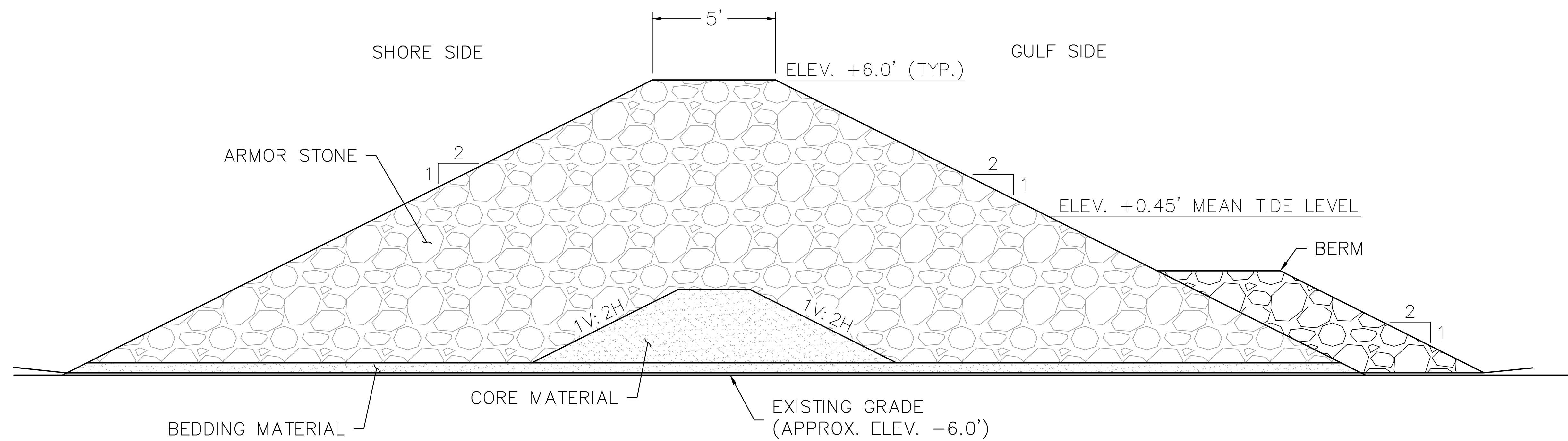
FOURCHON, LOUISIANA LAFOURCHE PARISH

SCALE	N.T.S.
DATE	3-18-24
PROJECT	160025
SHEET NO.	3 OF 3





TYPICAL BEACH RESTORATION SECTION



TYPICAL BEACH ROCK BREAKWATER SECTION



NO.	REVISION	DATE

**ANGELETTE DESIGN**  
Consulting Engineers & Surveyors

PHONE: 985-798-7700 13379 HWY 3235 - LAROSE, LA 70373 www.angelette.com

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LA. REG. NO. 28236  
CIVIL ENGINEER

GREATER LAFOURCHE PORT COMMISSION

FOURCHON BEACH RESTORATION PROJECT SECTIONS

FOURCHON, LOUISIANA LAFOURCHE PARISH

SCALE N.T.S.  
DATE 3-18-24  
PROJECT 160025  
SHEET NO. 2 OF 3



# 2024 CPRA Coastal Industry Week

## Coastal Industry Briefing and Construction Project Forecast – Partner Led

March 26<sup>th</sup>, 2024  
2:00pm – 3:30pm CST

### *Virtual Meeting*

Zoom URL: <https://us06web.zoom.us/j/82284982515>  
Meeting ID: 822 8498 2515  
Phone Audio: (215) 861-0674  
Phone Audio Passcode: 5918836

- I. Opening Remarks**
- II. Upcoming Risk Reduction Projects to be Bid for Construction (2:00 pm – 2:45 pm)**
  - a. Upcoming TLCD Projects: *Reggie Dupre, TLCD; David Boudreaux, Delta Coast Consultants, LLC*
  - b. Upcoming NLLD Projects: *Arthur Ostheimer Jr., North Lafourche Levee District*
  - c. Upcoming SLLD Projects: *Joe Picciola, Picciola & Associates, Inc.; Neil Angelette, Angelette Design, LLC; John Plaisance, GIS Engineering, LLC*
  - d. Upcoming LAILD Tidal Flood Risk Reduction Projects: *Miles Garriott, Evans-Graves Eng., Inc.*
- III. Upcoming Restoration Projects to be Bid for Construction (2:45 pm – 3:20 pm)**
  - a. ME-0032 South Grand Chenier Baker Tract Marsh Creation Project: *Breese Barnes, NRCS*
  - b. Cameron Gulf Shoreline Protection Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - c. Mermentau Basin Inundation Relief Project: *Daniel Dehon, C. H. Fenstermaker & Associates*
  - d. Upcoming Vermilion Parish Projects: *Nick Sonnier, Sellers & Associates, Inc.*
  - e. Grand Bayou Freshwater Reintroduction: *Kevin Dezarn, GIS Engineering, LLC*
  - f. Catfish Lake Living Shoreline – Lafourche Parish: *Tyler Ortego, Natrx; Nick LeBlanc, Danos*
  - g. Upper Barataria Terracing: *Matt Salmon, Freese & Nichols, Inc.*
- IV. Other Project Presentations (3:20 pm – 3:30 pm)**
  - a. Upcoming Ducks Unlimited Projects: *Brad Lambert, Ducks Unlimited*
  - b. Sunset Park Restoration Project: *Andrew Woodroof, Digital Engineering*
  - c. Fourchon Beach Maintenance Restoration and Protection Project: *Bryce Autin, Greater Lafourche Port Commission*
- V. Questions and Discussion**
- VI. Adjourn**