

TERREBONNE LEVEE & CONSERVATION DISTRICT

MORGANZA TO THE GULF INTERIM FLOOD RISK REDUCTION PROJECT



CPRA COASTAL INDUSTRY: PARTNER-LED INDUSTRY
BRIEFING & CONSTRUCTION PROJECT FORECAST

MARCH 31, 2026



MORGANZA TO THE GULF OVERVIEW

STRUCTURE OVERVIEW

- 98-miles of levee; 80-miles in Terrebonne Parish
- 14 Navigable Floodgates
- 2 Navigable Lock Structures
- HNC Lock Complex (In Construction)
- 24 Environmental Structures with Nearly 100 Sluice Gates

Legend

- Feature 1
- Reach
- Reach A - Original Alignment
- Reach B
- Reach F
- Reach G-1
- Reach G-2a
- Reach G-2b
- Reach H-1
- Reach H-2
- Reach H-3
- Reach J-1
- Reach J-3
- Untitled Placemark
- Western Tie-In



MORGANZA INVESTMENTS TO DATE

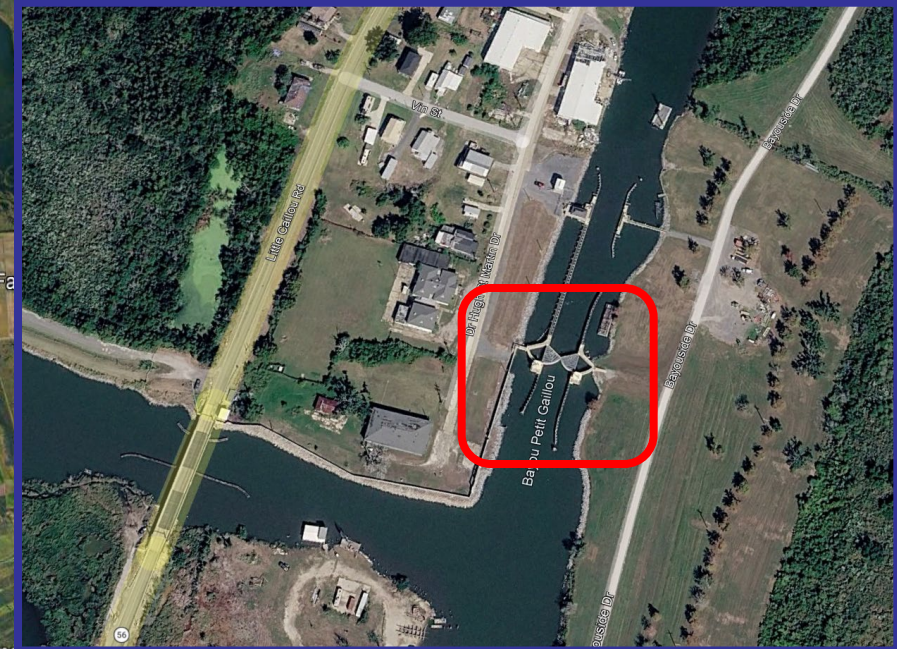
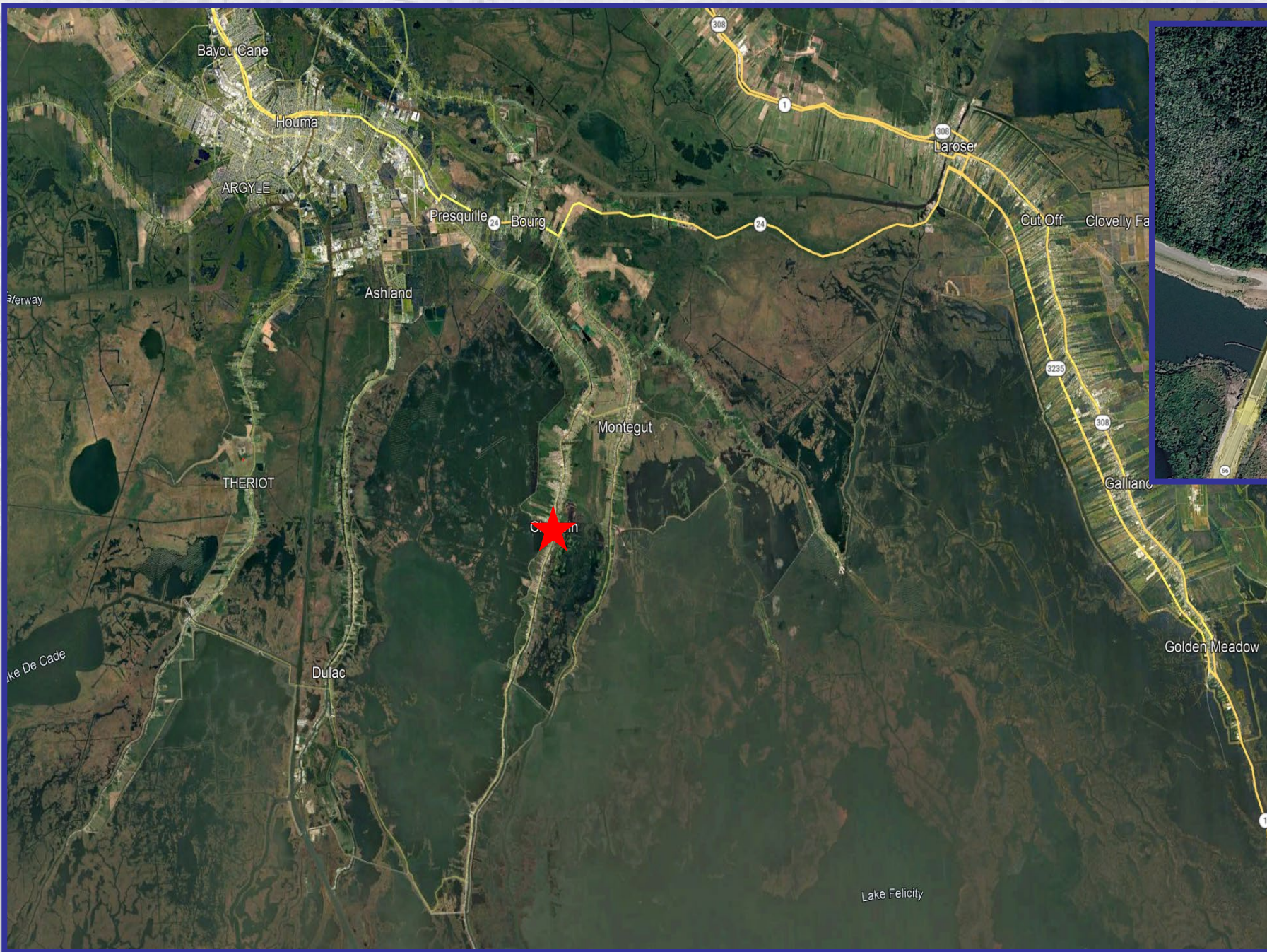
Terrebonne Levee District (TLCD)	\$300 Million
State of Louisiana (CPRA)	\$421 Million
HNC Lock Complex (RESTORE Act)	\$400 Million
<u>Terrebonne Parish Flood Control</u>	<u>\$200 Million</u>
Total State & Local Investment	\$1.321 BILLION
Federal Funding Appropriated to Date	\$475.8 Million
Federal Funds FY 2026	\$137.5 Million
TOTAL INVESTMENT	\$1.934 BILLION

Completed and/or under construction along the 98-mile MTG alignment:

- 80 Miles of Levees
- 14 Navigable Floodgates
- 2 Navigable Non-Federal Lock Complexes
- 1 HNC Federal Lock Complex
- 11 Environmental Structures



**BOUDREAUX CANAL
SECTOR GATE
MAINTENANCE PROJECT**



Located near the intersection of Bayou Petit Caillou and Boudreaux Canal in Chauvin

56' sector gate structure originally constructed in 1989

Scheduled 10-15 yr maintenance cycles; last completed in offseason 2015-2016

BUDGETARY ESTIMATE: \$1.5M

EOR: T. Baker Smith



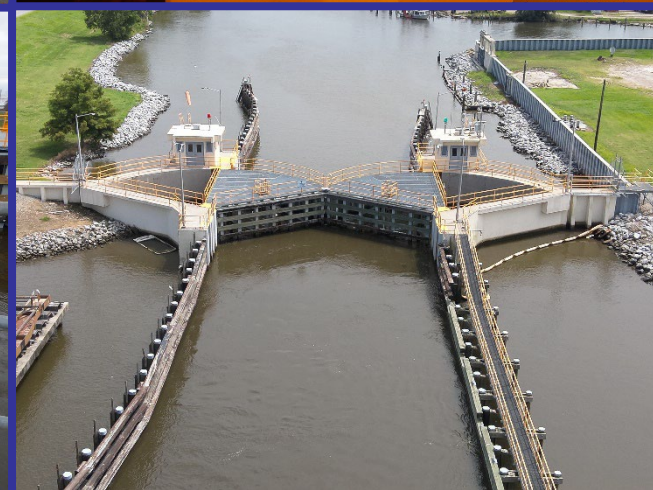
BIDDING PROCESS:

Public Bid or Labor Quote; YTD

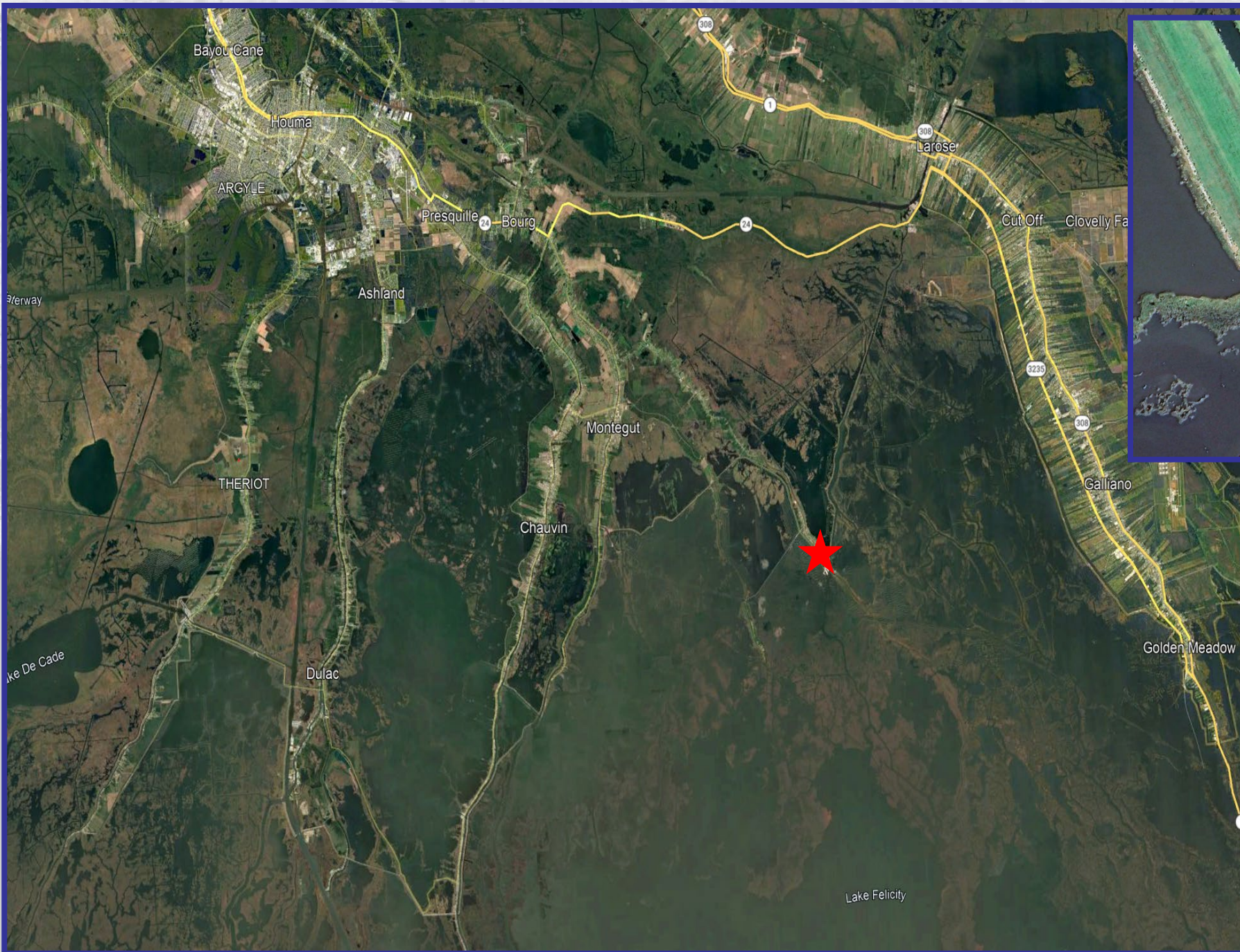
SCOPE OF SERVICES:

Remove the leaf gates for offsite inspection, blasting/painting, and necessary repairs; install needle girders/pins; dewater chamber; inspect and clean chamber and walls; remove needle girders and reopen to navigation until leaf gates are ready for reinstallation; reinstall leaf gates; repeat needle girder/pin and dewatering process; perform final chamber cleanout; blast/recoat walls; make any needed repairs; test and reopen to navigation





**POINTE AUX CHENES
FLOODGATE RECEIVING
STRUCTURE MAINTENANCE
PROJECT**



Located near the intersection of Bayou Pointe Aux Chenes and Grand Bayou in Pointe Aux Chenes at the end of HW 665

65' barge gate structure originally constructed in 2016

Scheduled 8-10 yr maintenance cycles; last completed on the barge gate only in the offseason of 2024-2025; receiving structure due maintenance



BUDGETARY ESTIMATE: \$500k

EOR: Delta Coast Consultants



BIDDING PROCESS:

Labor Quote; TLCD provides paint and materials

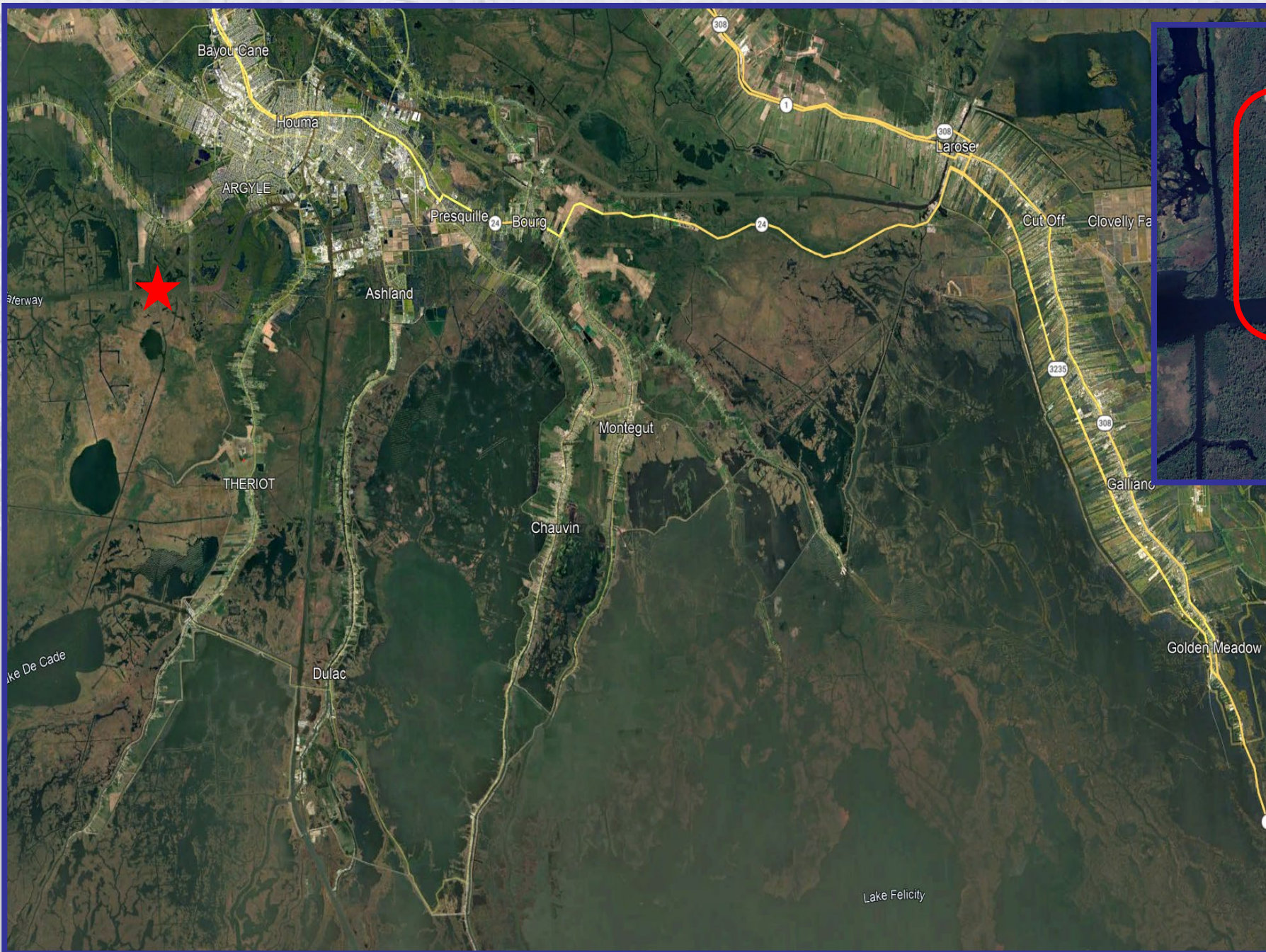
SCOPE OF SERVICES:

To be completed in the offseason 2026-2027 to take advantage of low tides; excludes the barge gate; components of the structure include sheet pile walls, pipe piles and supports, rollergate, road bulkhead, walkways, handrails, etc.; inspect and replace anodes if necessary





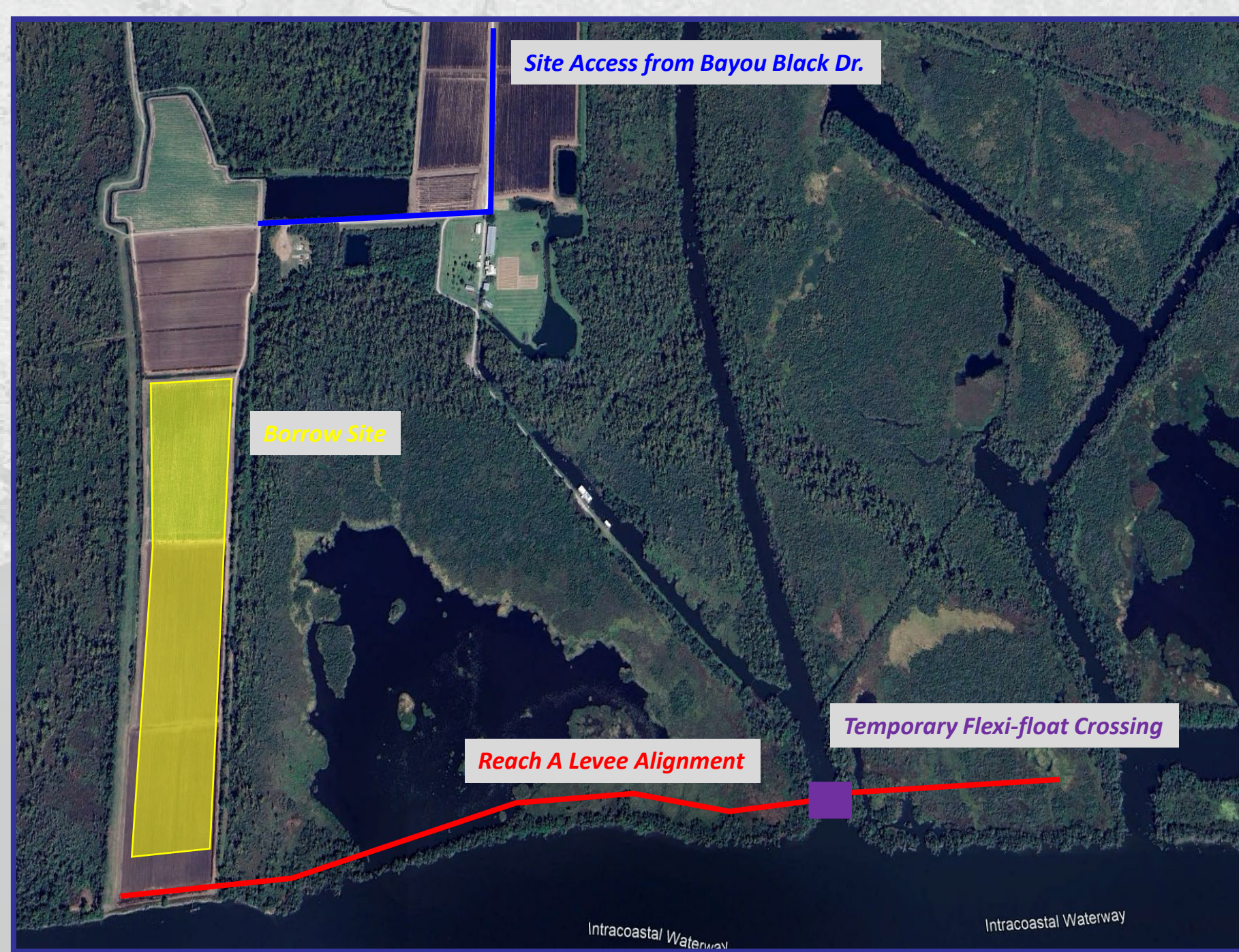
**REACH A LEVEE
CONSTRUCTION PROJECT**



Located along the north bank of the GIWW; east and west of Minors Canal

Initially set up as two projects, but can easily be combined into one if funding allows

Approx. 1-mi of new levee, utilizing adjacent borrow site



Site Access from Bayou Black Dr.

Borrow Site

Reach A Levee Alignment

Temporary Flexi-float Crossing

BUDGETARY ESTIMATE: \$10M
BID ALTERNATE: \$3M

EOR: GIS Engineering



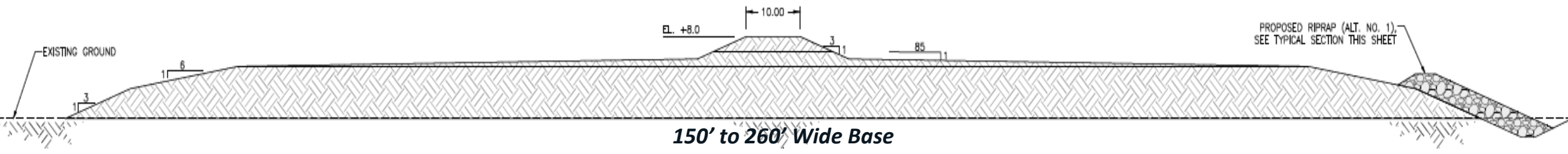
BIDDING PROCESS:
Public Bid

PROJECT SCOPE:
Borrow site predetermined, contractor to negotiate with landowner for borrow; installation and operation of owner provided flexi-floats optional; offroad equipment anticipated; clearing and grubbing; excavation and hauling, levee construction to EL. +8 NAVD to include soil and compaction testing, survey and layout; haul route maintenance; seeding fertilizing
Alternate includes installation of shoreline protection rip rap

PROTECTED SIDE

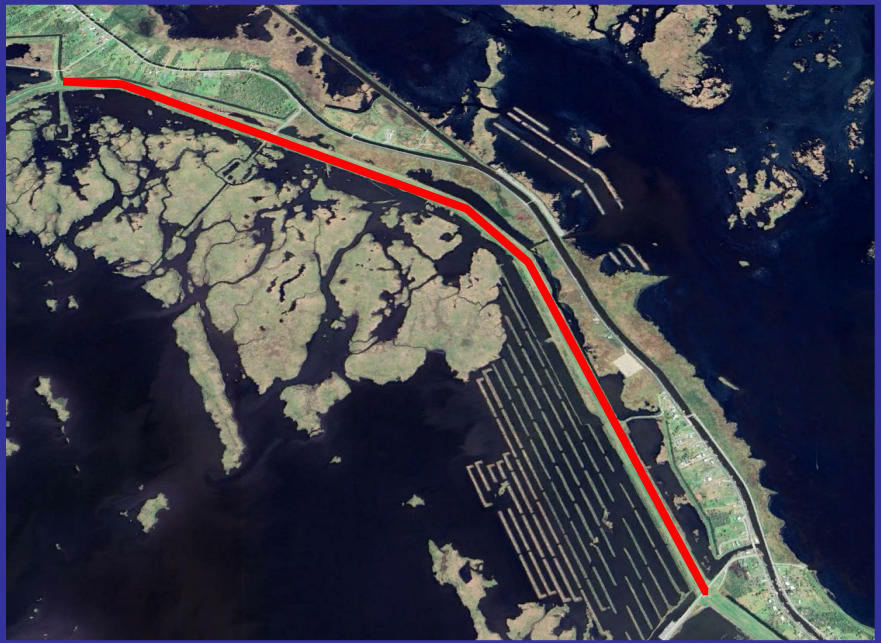
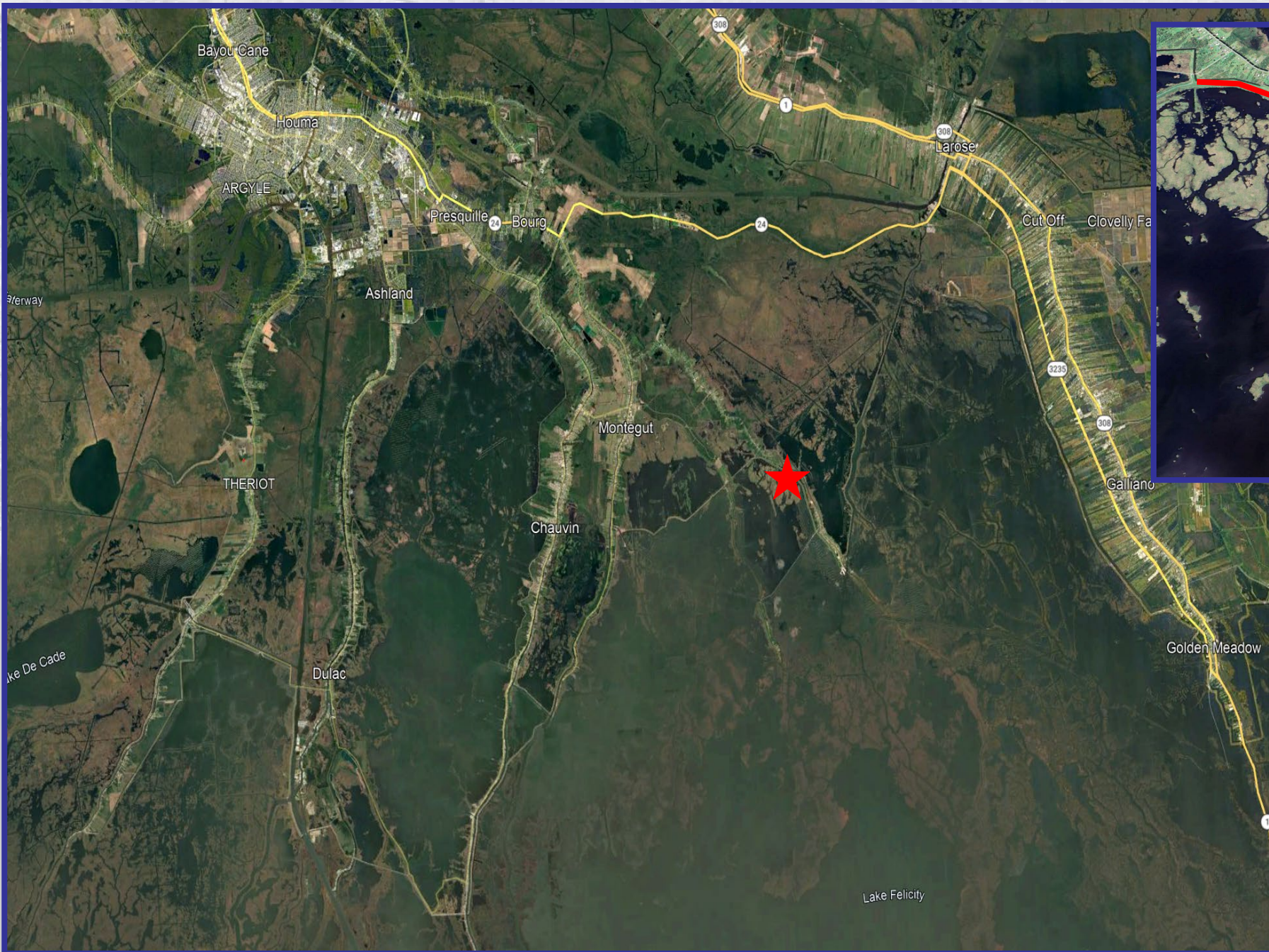
TYPICAL SECTION

FLOOD SIDE



ITEM DESCRIPTION	QUANTITY	UNIT
Mobilization & Demobilization (Not to exceed 10% of total base bid)	1	Lump Sum
Clearing & Grubbing	27	Acre
Temporary Pipeline Crossing	2	Each
Embankment (Pit Measure)	425,000	Cubic Yard
Borrow Pit Maintenance	1	Lump Sum
Access Route Maintenance Aggregate	500	Ton
Flexi-float Crossing (Includes installation, operation, maintenance, and removal)	1	Lump Sum
Bid Alternate: 250 lb. Class Rip Rap	15,000	Ton
Bid Alternate: Geotextile Fabric for Rip Rap	8,000	Square Yard

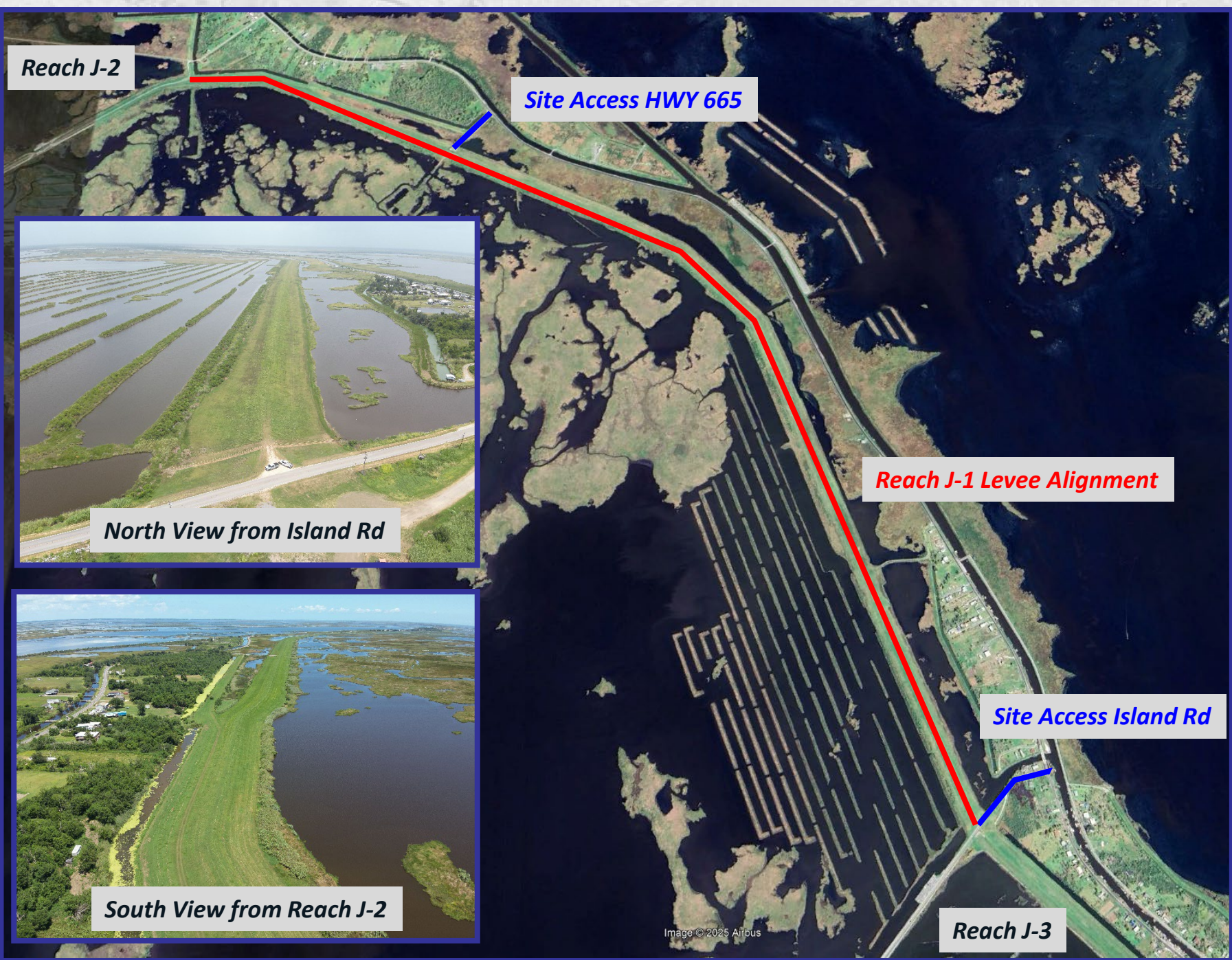
REACH J-1 LEVEE IMPROVEMENT PROJECT



Located along the east side of HWY 665 in Pointe Aux Chenes; north of Island Rd

Levee improvements to EL. +15 NAVD; currently at +11 NAVD

Approx. 3-mi of levee improvements, utilizing contractor provided borrow



Reach J-2

Site Access HWY 665

Reach J-1 Levee Alignment

Site Access Island Rd

Reach J-3

North View from Island Rd

South View from Reach J-2

Image © 2025 Allbus

BUDGETARY ESTIMATE: \$5.4M

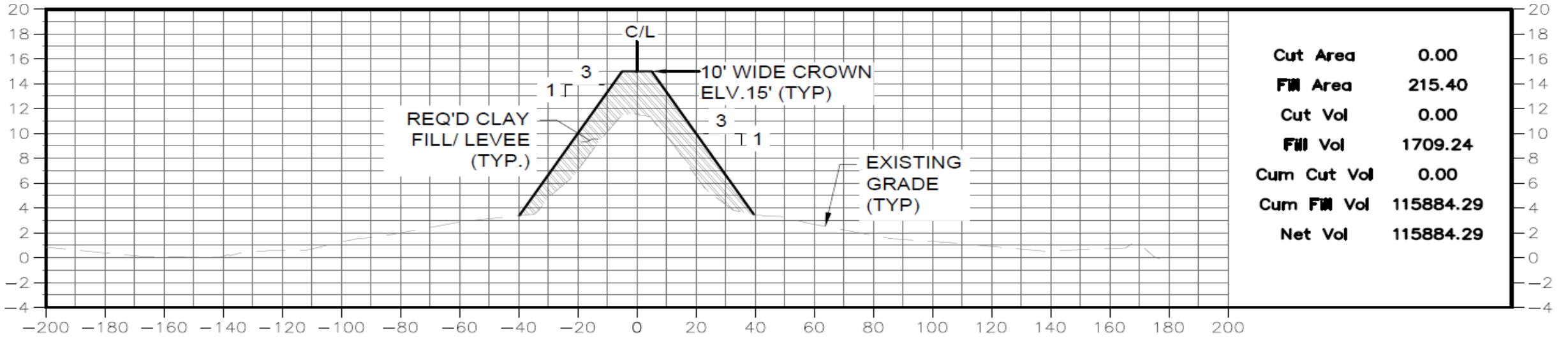
EOR: AllSouth Consulting Eng.



BIDDING PROCESS:
Public Bid

PROJECT SCOPE:
Borrow site predetermined, contractor to negotiate with landowner for borrow; clearing and grubbing; excavation and hauling, levee improvements to EL. +12 NAVD to include soil and compaction testing, survey and layout; haul route maintenance; seeding fertilizing

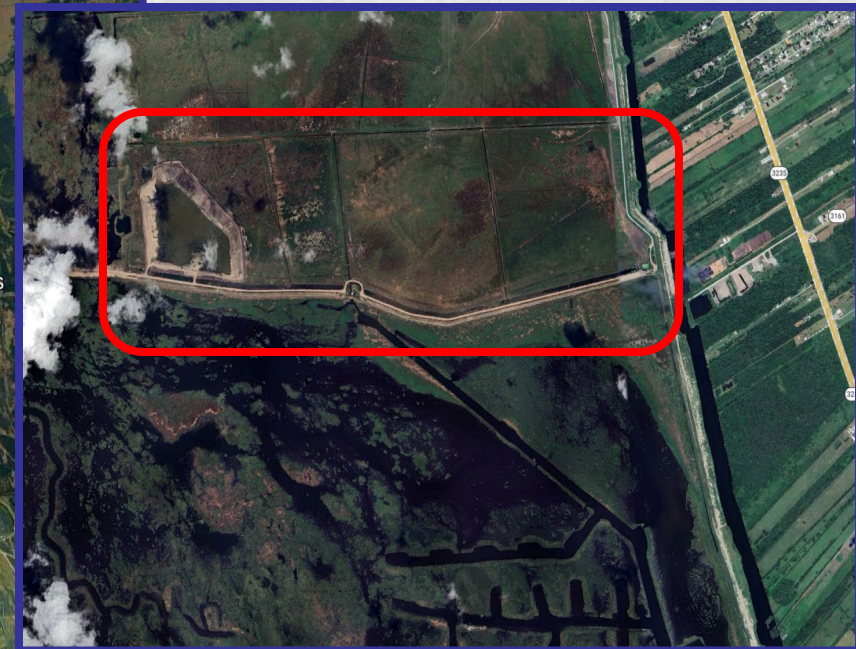
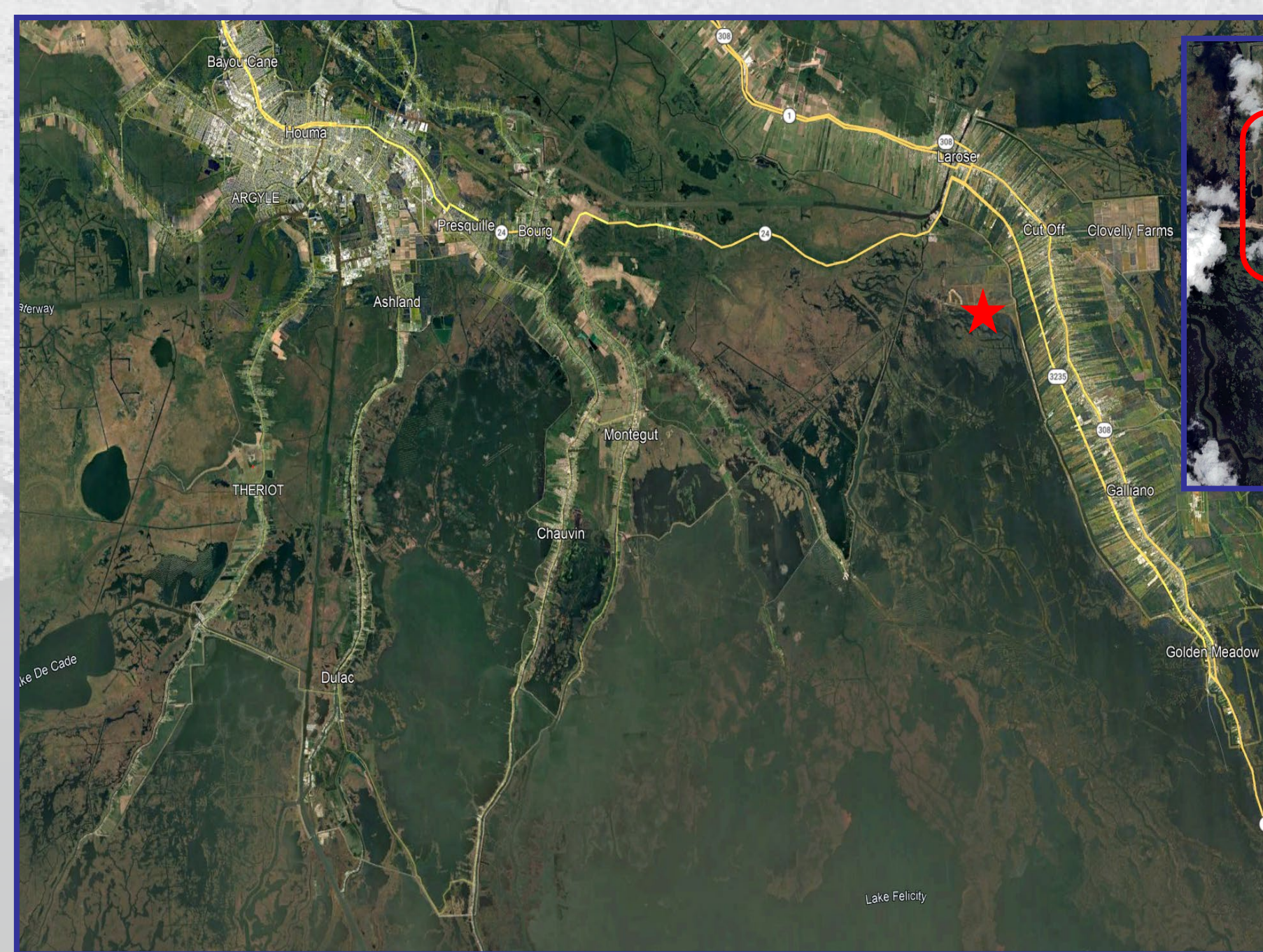
TYPICAL SECTION



Cut Area	0.00
Fill Area	215.40
Cut Vol	0.00
Fill Vol	1709.24
Cum Cut Vol	0.00
Cum Fill Vol	115884.29
Net Vol	115884.29

ITEM DESCRIPTION	QUANTITY	UNIT
Mobilization & Demobilization (Not to exceed 10% of total base bid)	1	Lump Sum
Clearing & Grubbing	50	Acre
Temporary Pipeline Crossing	1	Each
Embankment (Pit Measure)	250,000	Cubic Yard
Borrow Pit Maintenance	1	Lump Sum
Access Route Maintenance Aggregate	500	Ton
Survey & Layout	1	Lump Sum
Seeding & Fertilizing	50	Acre

REACH L APACHE FARM LEVEE IMPROVEMENT PROJECT



**Located in Cut-off, west of
Reach C-North of the SLLD
Larose to Golden Meadow Levee**

**Levee improvements to EL. +12
NAVD; currently at +10 NAVD**

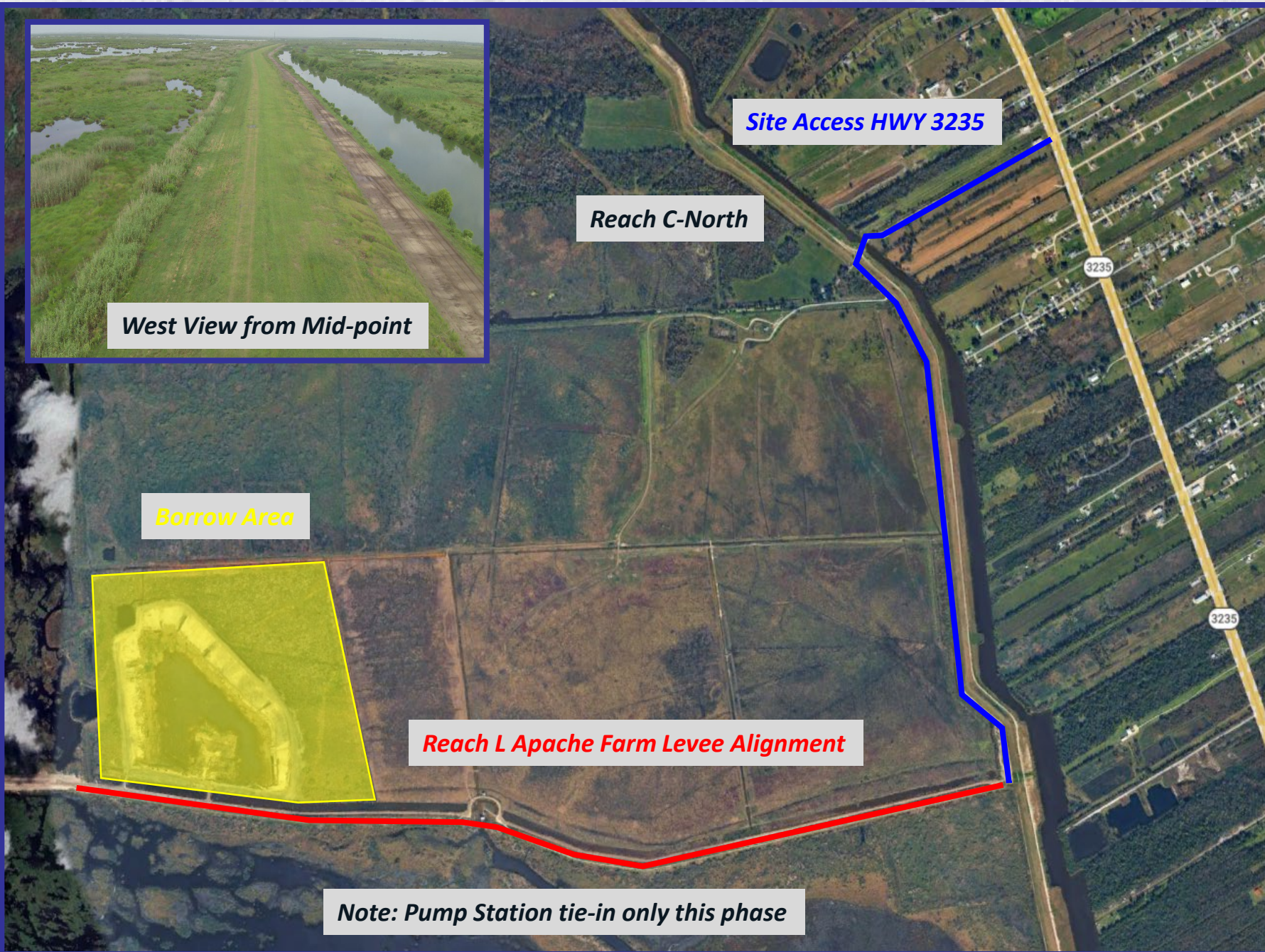
**Approx. 2-mi of levee
improvements, utilizing adjacent
borrow site**



West View from Mid-point



West View from C-North



Site Access HWY 3235

Reach C-North

Borrow Area

Reach L Apache Farm Levee Alignment

Note: Pump Station tie-in only this phase

BUDGETARY ESTIMATE: \$1.5M

EOR: Angelette Design

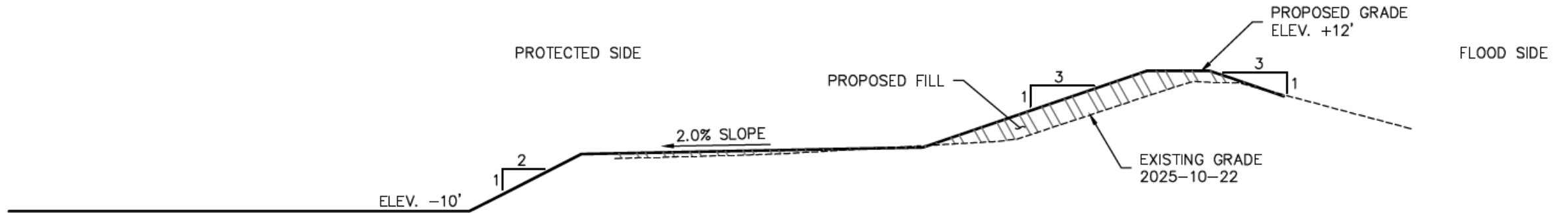


BIDDING PROCESS: Public Bid

PROJECT SCOPE:

Borrow site predetermined, contractor to negotiate with landowner; off-road equipment anticipated; excavation & hauling, levee improvements to EL. +15 NAVD; soil & density testing; survey & layout; haul route maintenance; seeding & fertilizing

TYPICAL SECTION



ITEM DESCRIPTION	QUANTITY	UNIT
Mobilization & Demobilization (Not to exceed 10% of total base bid)	1	Lump Sum
Clearing & Grubbing	23	Acre
Temporary Pipeline Crossing	1	Each
Embankment (Pit Measure)	80,000	Cubic Yard
Borrow Pit Maintenance	1	Lump Sum
Access Route Maintenance Aggregate	500	Ton
Survey & Layout	1	Lump Sum
Seeding & Fertilizing	23	Acre
Pipeline Crossing	2	Each



**USACE PROJECTS
NEW ORLEANS DISTRICT**



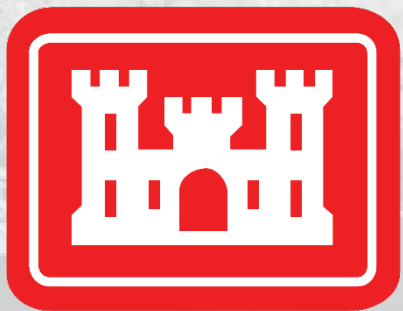
Morganza to the Gulf



CURRENT USACE CONSTRUCTION SCHEDULE

Contingent on Federal Appropriations for Construction

ICWW SECTOR GATES (EAST & WEST).....	2028
SHELL CANAL FLOODGATE.....	2029
MINORS CANAL FLOODGATE.....	2028
REACH A LEVEE CONTRACT 2.....	2028
REACH A LEVEE ENV. STRUCTURES.....	2029
REACH F UPPER LEVEE IMPROVEMENTS.....	2026
BAYOU TERREBONNE SECTOR GATE.....	2030
HUMBLE CANAL SECTOR GATE.....	2028
REACH J-2 PH1 LEVEE IMPROVEMENTS.....	2028
REACH J-2 PH2 LEVEE IMPROVEMENTS.....	2029
REACH J-2 PH3 LEVEE IMPROVEMENTS.....	2030
REACH K LEVEE IMPROVEMENTS.....	2029
REACH L LEVEE IMPROVEMENTS & STRUCTURE.....	2029
LOCKPORT TO LAROSE REACH 1.....	2028



Prepared By:





North Lafourche Levee District

**Valentine Consolidated Pump Station,
Morganza to the Gulf Reaches 1 & 3A and
Peltier Park Drainage Improvements
Projects Update**

Arthur Ostheimer, Program/Project Manager
Dwayne Bourgeois, Executive Director
March 31, 2026

Presentation Overview

General Project Information

Project Layout

Typical Sections

Notable Quantities

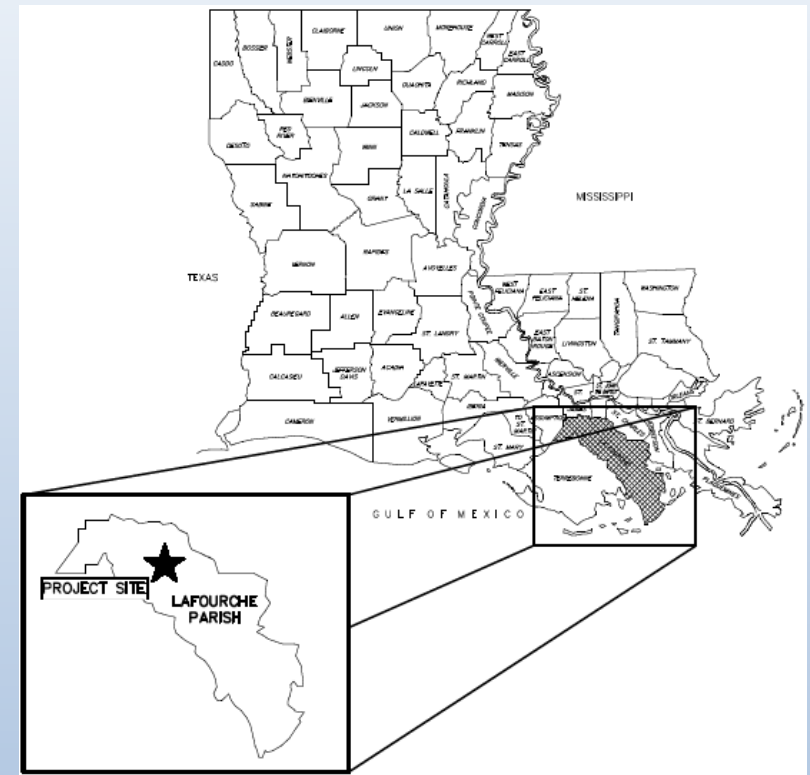
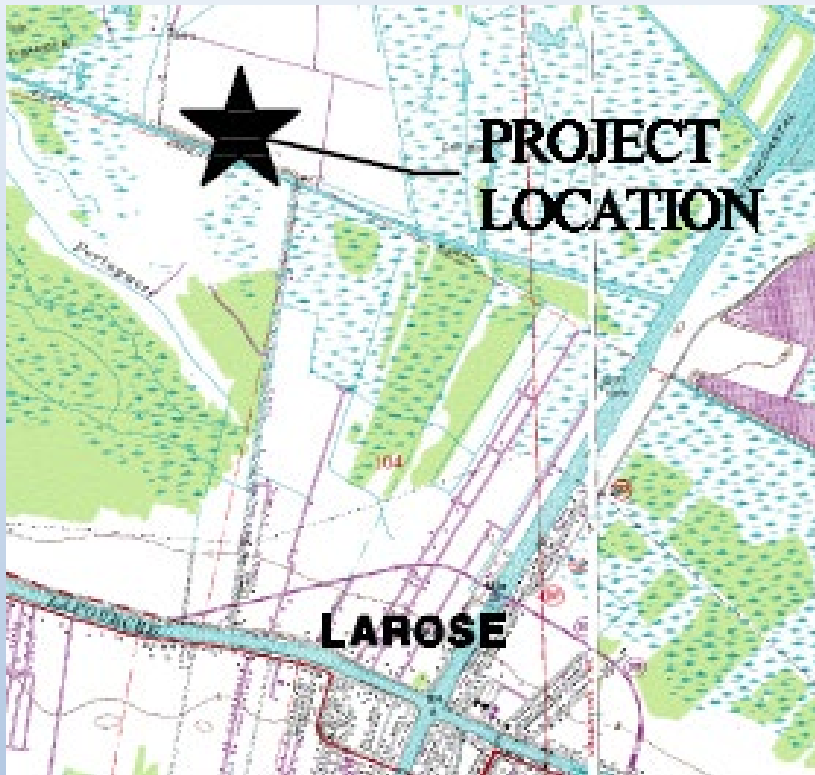
Schedule

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

Reach 1 Haul Road

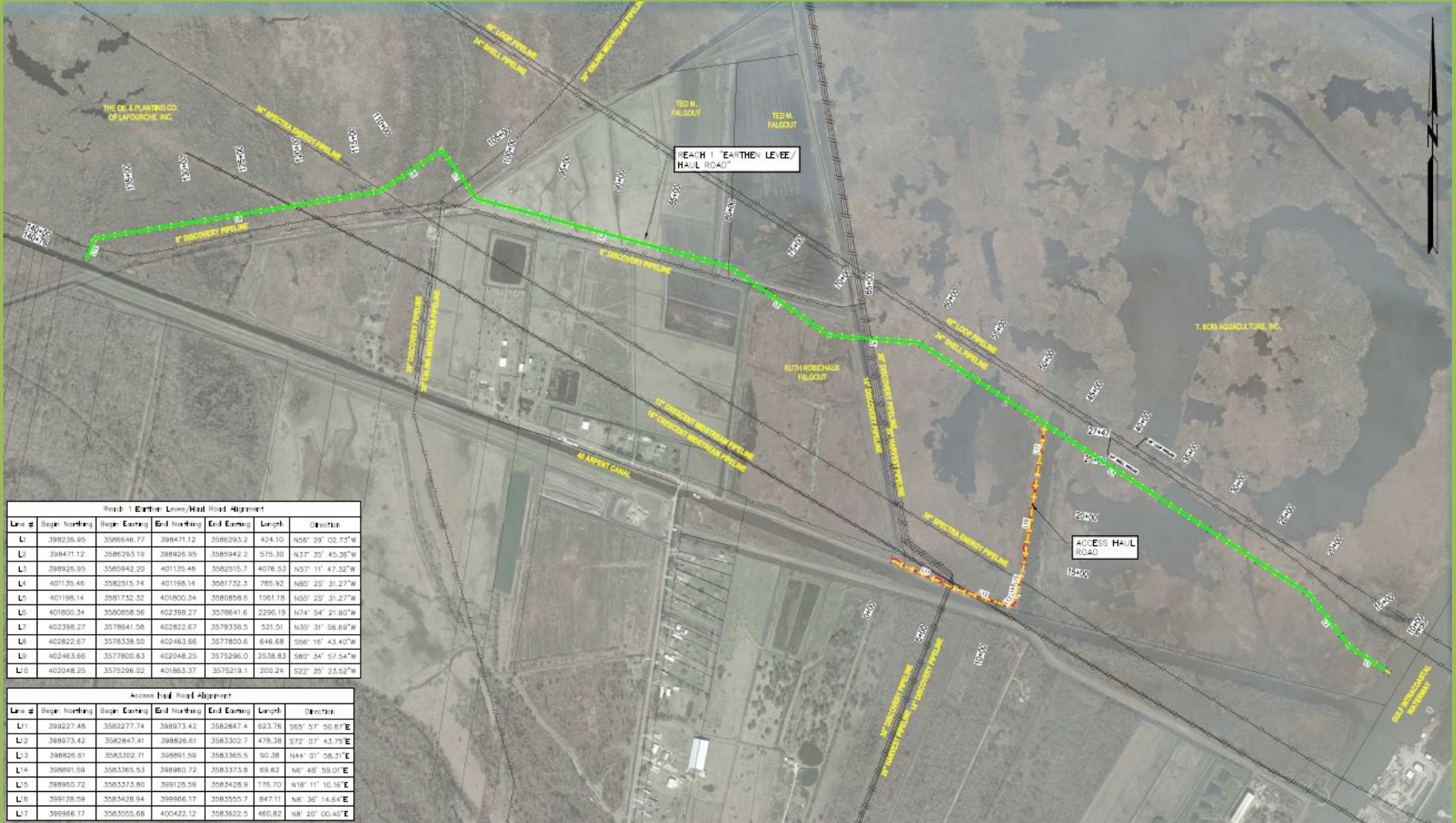


MtoG Reach 1 Haul Road General Project Info

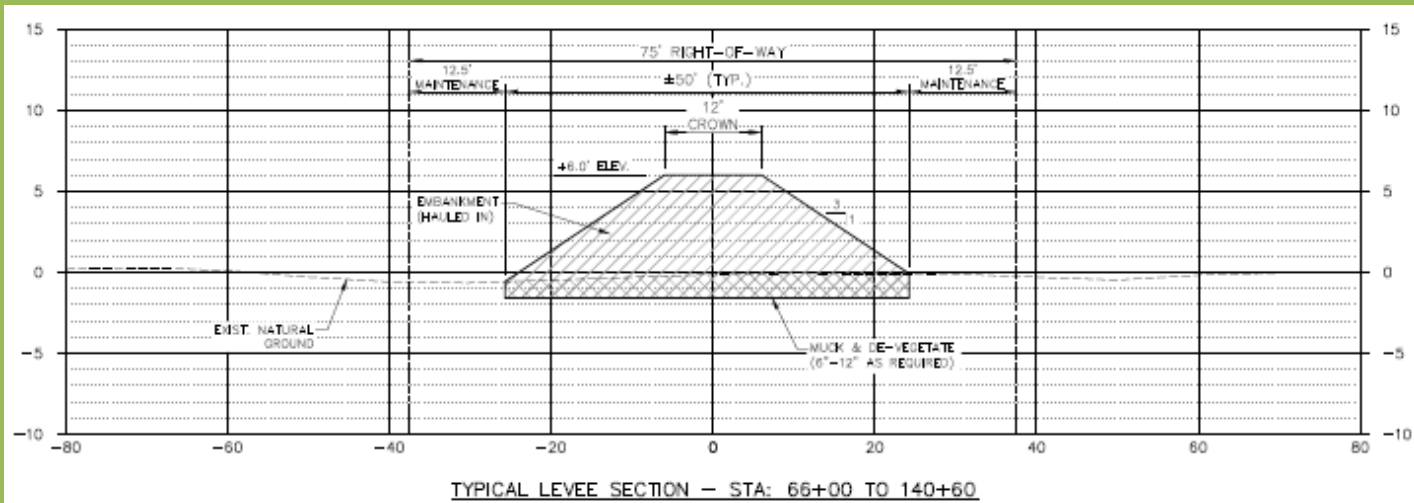
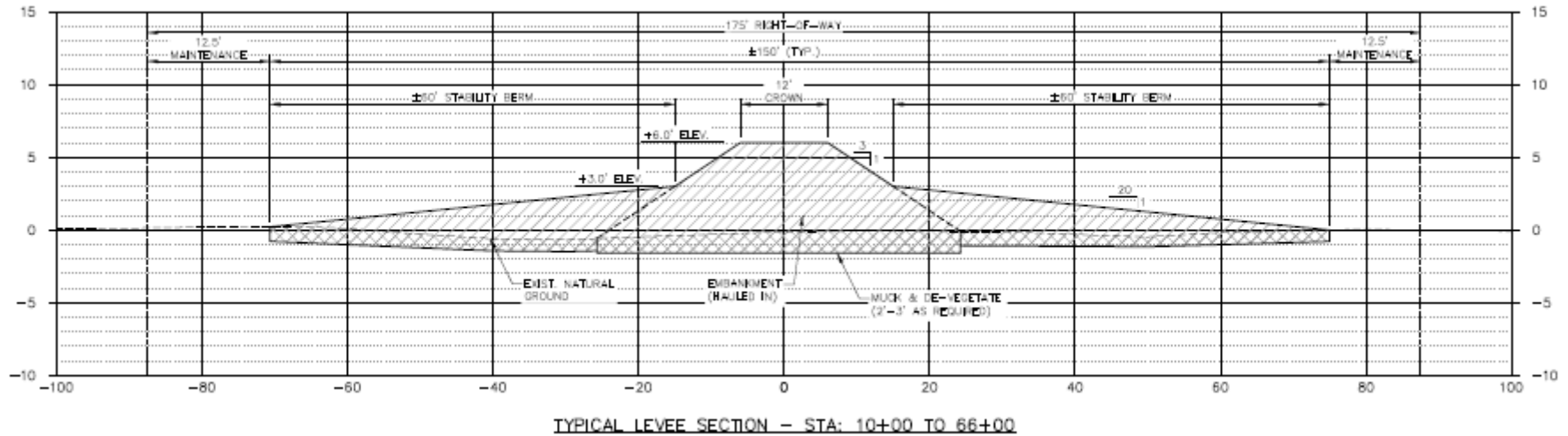


INFO	DESCRIPTION
LOCATION	Larose - Lafourche Parish
FUNDING	CPRA/GOMESA
PROJECT TYPE	Site Preparation and improvements

MtoG Reach 1 Haul Road Project Layout



MtoG Reach 1 Haul Road Typical Sections



MtoG Reach 1 Haul Road Construction Cost Estimate

Phase I - +6.0 Elevation

Construction	\$6,250,000

TOTAL ESTIMATE	\$6,250,000
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MtoG Reach 1 Haul Road Anticipated Schedule

Design Phase Completion: March 2026

Landrights/ Servitude Agreements: June 2026

Advertisement: July 2026

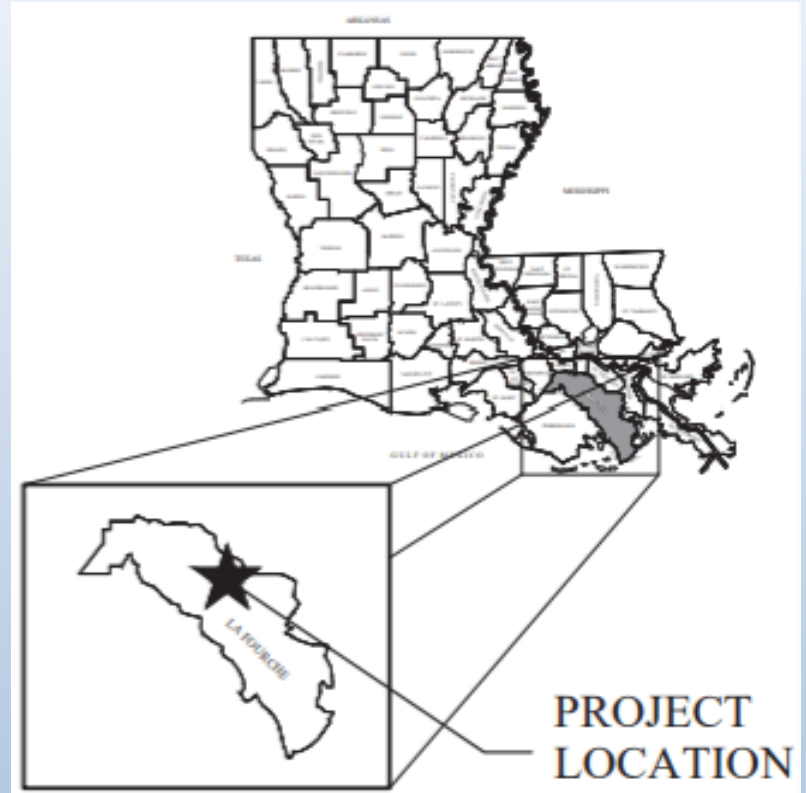
Construction Duration: 270 days

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

Reach 3A

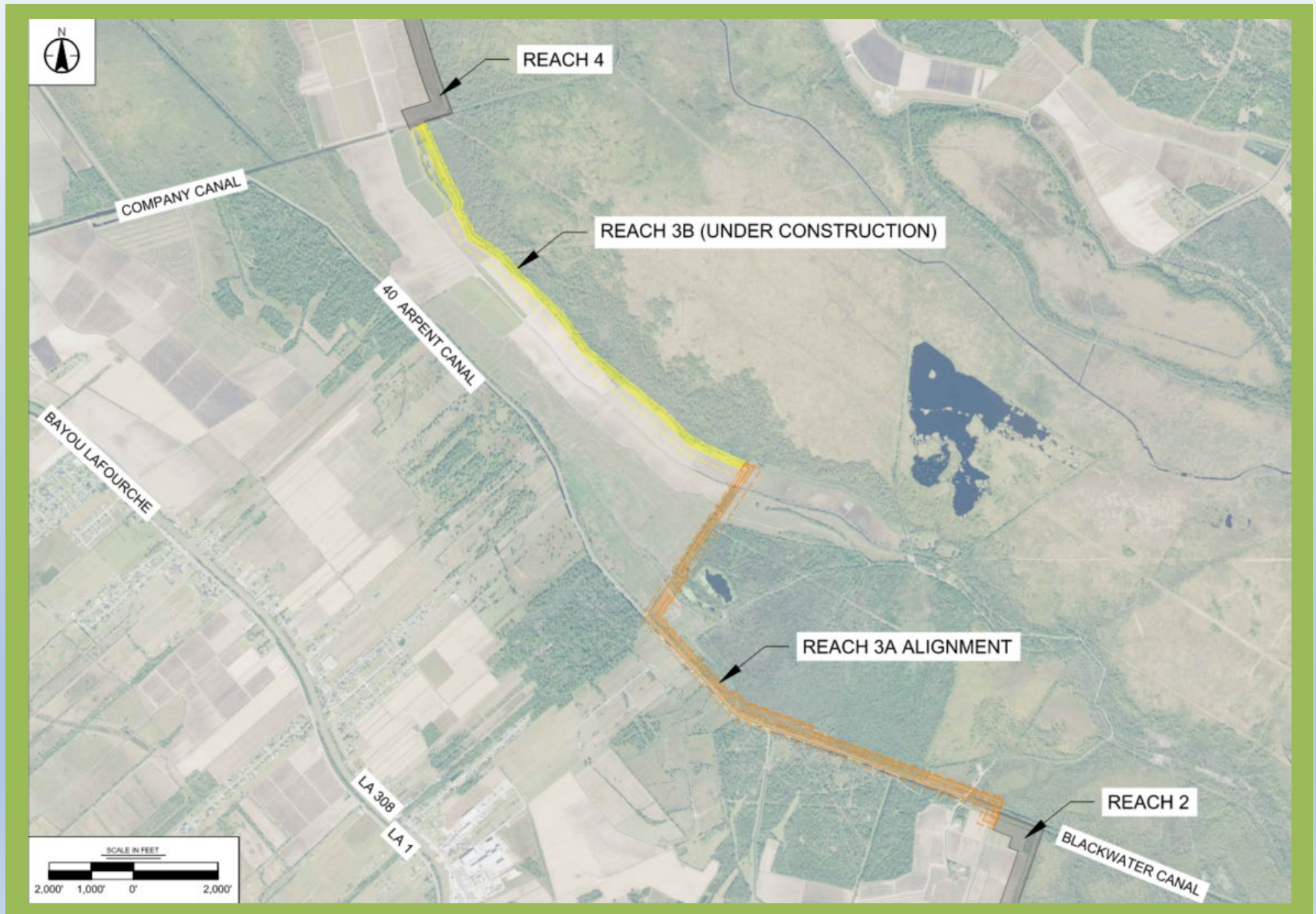


MtoG Reach 3A General Project Info



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

MtoG Reach 3A Project Layout



MtoG Reach 3A Construction Cost Estimate

Haul Road - +5.0 Elevation

Construction	\$2,000,000

TOTAL ESTIMATE

\$2,000,000

MtoG Reach 3A Anticipated Schedule

Design Phase Completion: Complete

Landrights/ Servitude Agreements: Complete

Advertisement: Summer 2026

Construction Duration: 150 Days

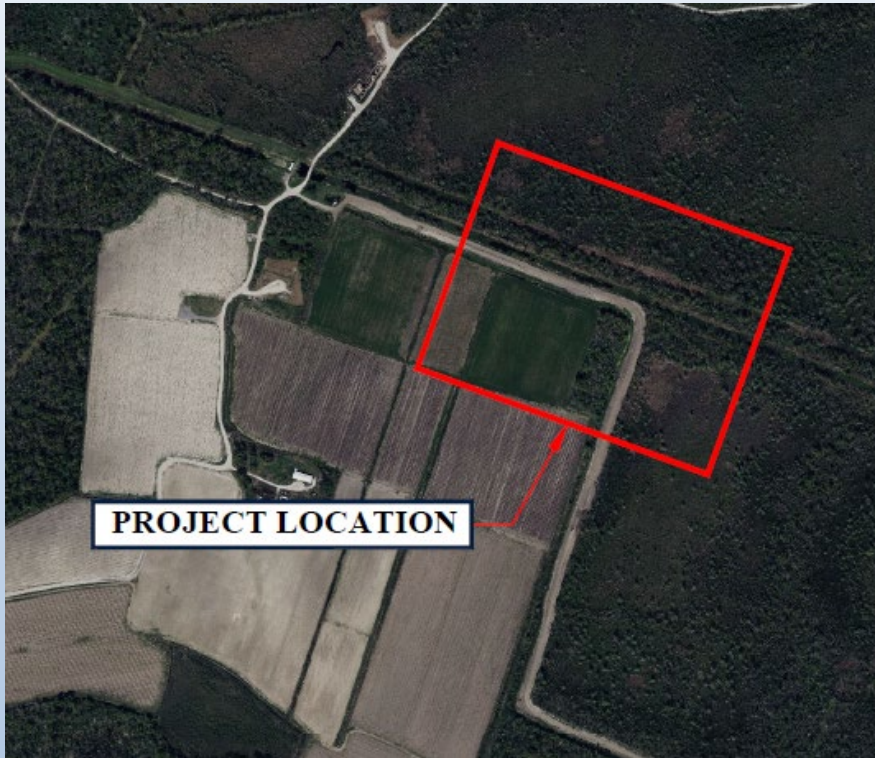
MORGANZA TO THE GULF AND LAROSE TO GOLDEN MEADOW FLOOD RISK REDUCTION PROJECTS

Valentine Consolidated Pump Station



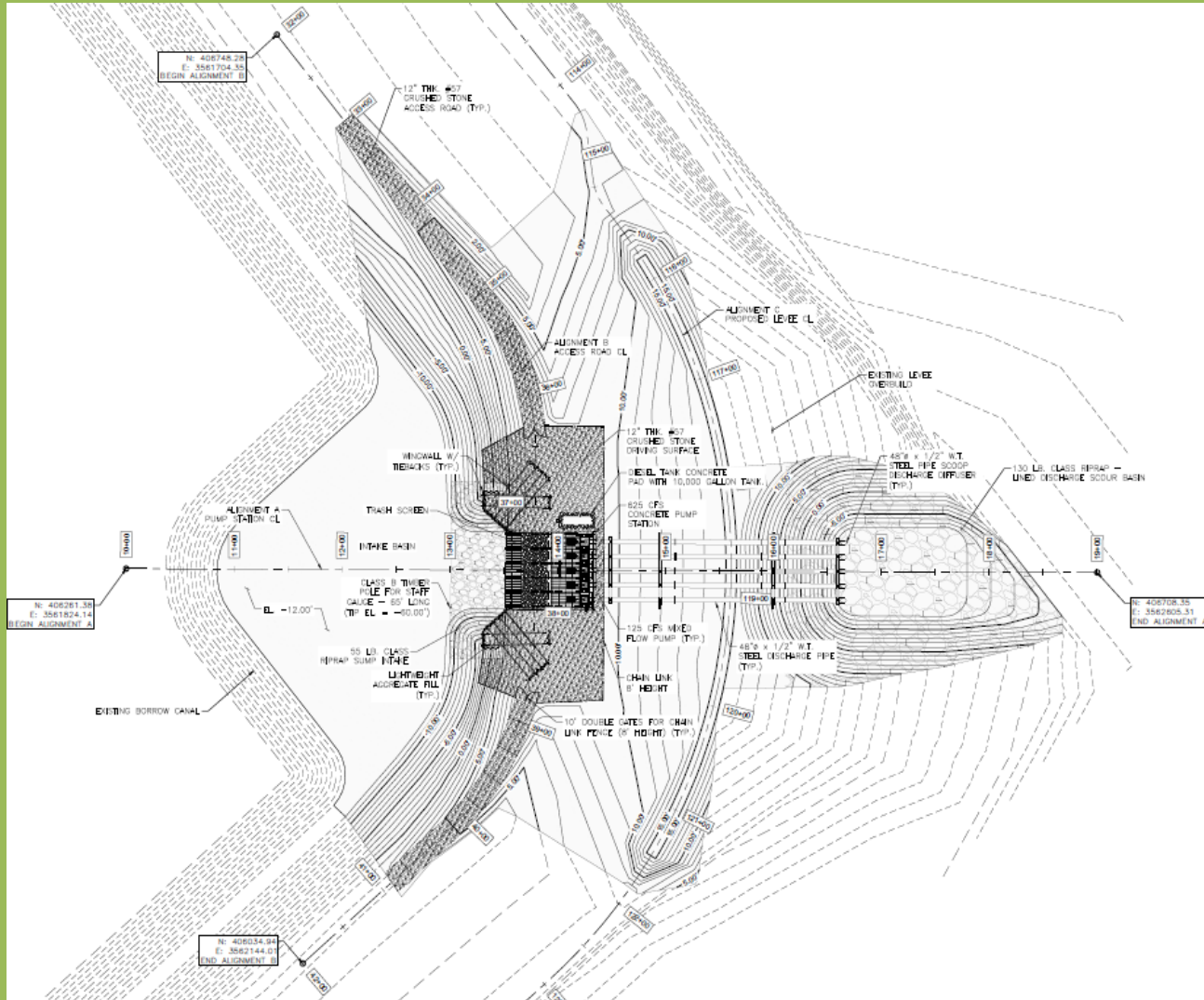
Valentine Consolidated Pump Station

General Project Info

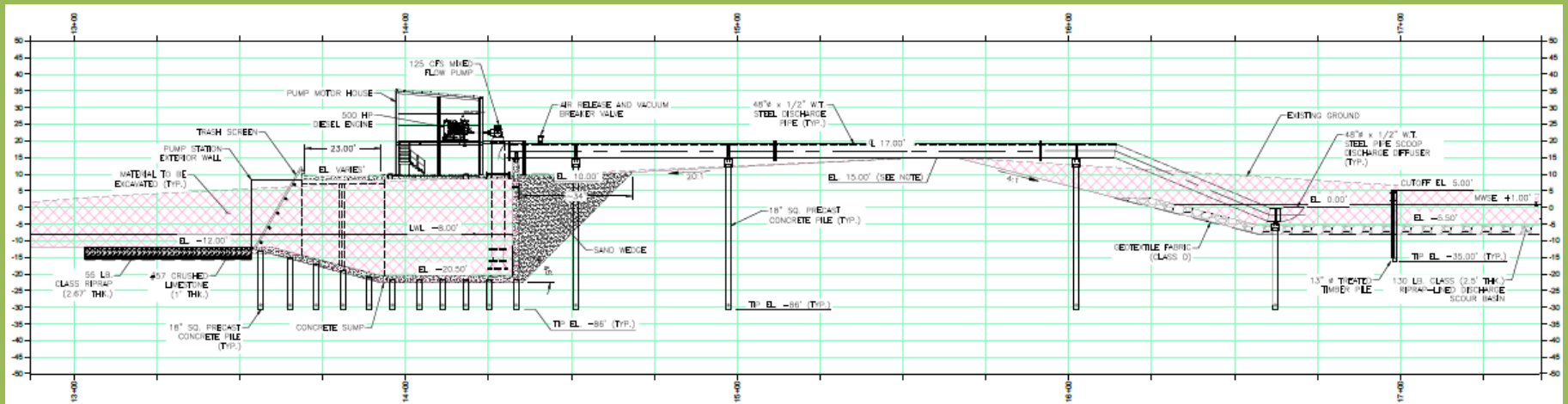
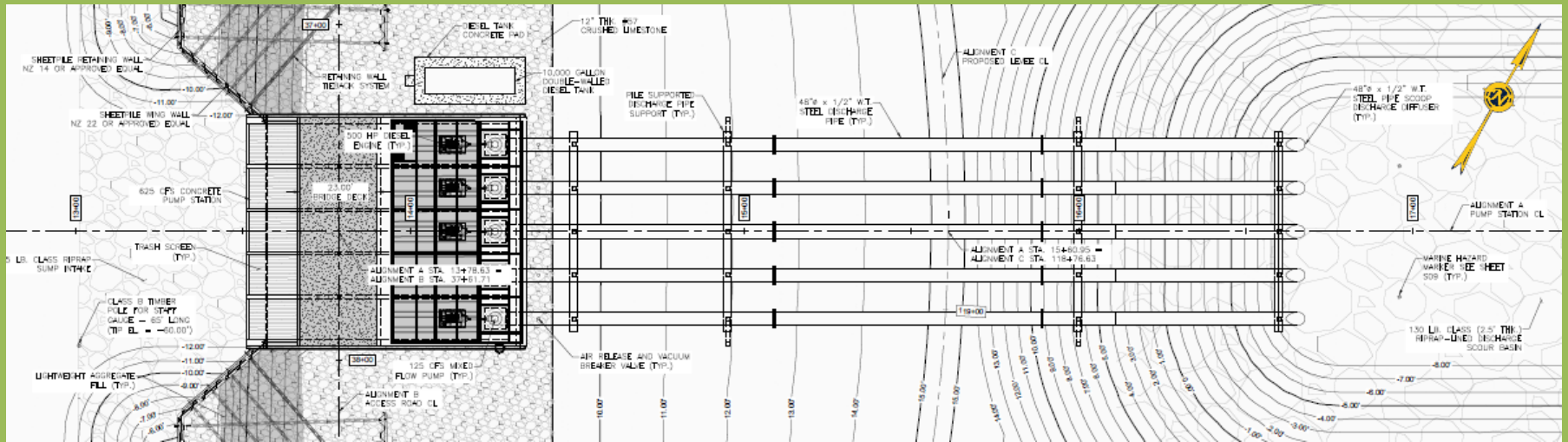


INFO	DESCRIPTION
LOCATION	Larose - Lafourche Parish
FUNDING	CPRA/GOMESA
PROJECT TYPE	Pump Station

Valentine Consolidated Pump Station Project Layout



Valentine Consolidated Pump Station Project Layout



Valentine Consolidated Pump Station Construction Cost Estimate

5 x 48" Diesel Pumps

Base Bid	\$13,448,023.93
Alternate 1	\$957,400.00
Alternate 2	\$957,400.00

TOTAL ESTIMATE

\$15,362,823.93

Valentine Consolidated Pump Station Anticipated Schedule

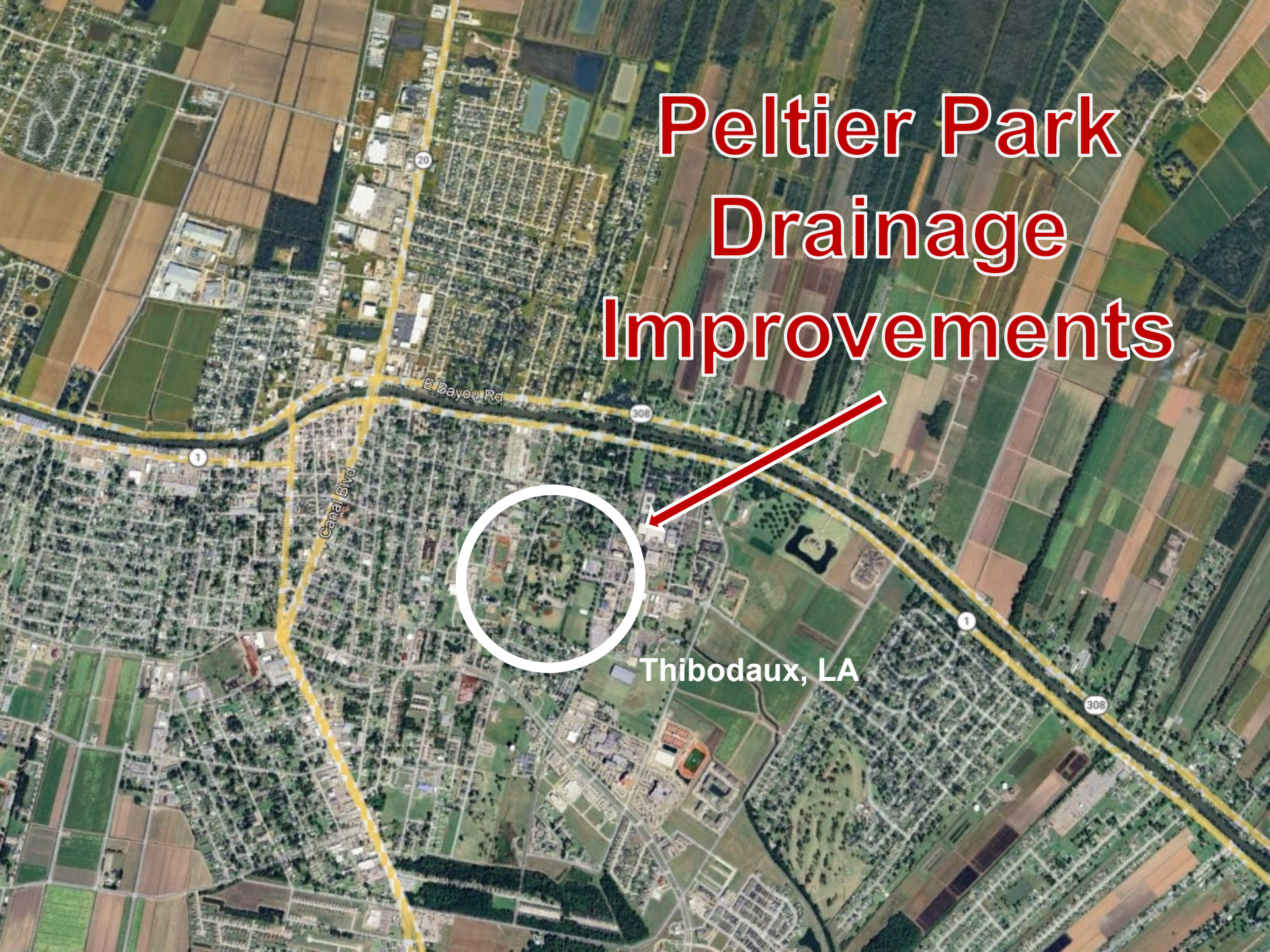
Design Phase Completion: April 2026

Landrights/ Servitude Agreements: Complete

Advertisement: August 2026

Construction Duration: 365 days

Peltier Park Drainage Improvements



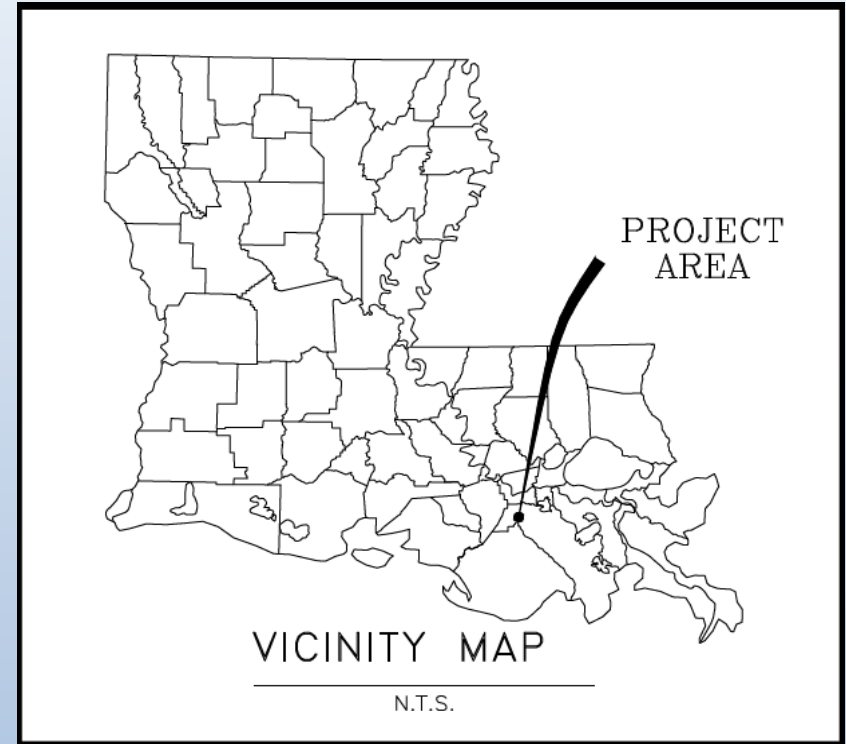
Canal Blvd

Bayou Rd

Thibodaux, LA

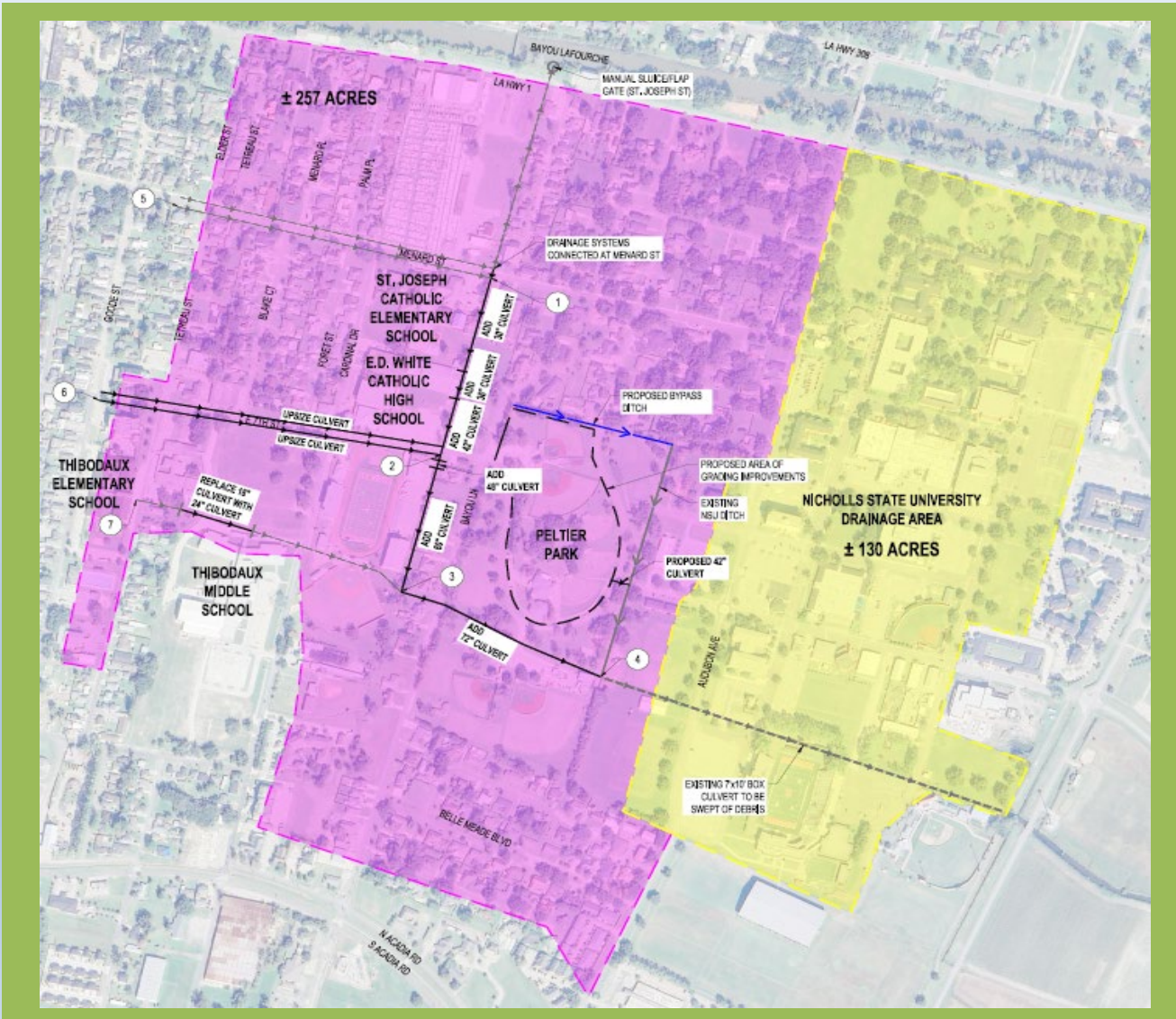
Peltier Park Drainage Improvements

General Project Info



INFO	DESCRIPTION
LOCATION	Thibodaux - Lafourche Parish
FUNDING	NLLD/ Statewide Flood Control Program
PROJECT TYPE	Drainage Improvements

Peltier Park Drainage Improvements Project Layout



Peltier Park Drainage Improvements Construction Cost Estimate

Item No.	Description	Qty	Unit	Unit Price	Total
CONSTRUCTION COST					
101	Mobilization	1	LS	\$250,000.00	\$250,000.00
102	Demolition	1	LS	\$150,000.00	\$150,000.00
103	Grading Improvements Outside of Peltier Park	1	LS	\$150,000.00	\$150,000.00
104	24" Storm Drainage	2,175	LF	\$205.00	\$445,875.00
105	30" Storm Drainage	2,300	LF	\$250.00	\$575,000.00
106	36" Storm Drainage	400	LF	\$315.00	\$126,000.00
107	42" Storm Drainage	350	LF	\$385.00	\$134,750.00
108	48" Storm Drainage	125	LF	\$470.00	\$58,750.00
109	60" Storm Drainage	800	LF	\$520.00	\$416,000.00
110	72" Storm Drainage	1,100	LF	\$610.00	\$671,000.00
111	New Area Inlets	50	EA	\$9,500.00	\$475,000.00
112	Utility Adjustments and Relocations	1	LS	\$400,000.00	\$400,000.00
113	Driveway Repair	1	LS	\$75,000.00	\$75,000.00
114	Roadway Repair	1	LS	\$250,000.00	\$250,000.00
115	Sidewalk Replacement	1	LS	\$125,000.00	\$125,000.00
116	Site Restoration	1	LS	\$125,000.00	\$125,000.00
117	Grading Improvements Inside of Peltier Park	1	LS	\$250,000.00	\$250,000.00
118	7' x 10' Box Cleaning	1	LS	\$250,000.00	\$250,000.00
119	Erosion Control	1	LS	\$75,000.00	\$75,000.00

TOTAL ESTIMATE

\$5,002,375.00

Peltier Park Drainage Improvements Anticipated Schedule

Design Phase Completion: December 2026

Landrights/ Servitude Agreements: N/A

Advertisement: January 2027

Construction Duration: 180 days



South Lafourche Levee District Upcoming Projects

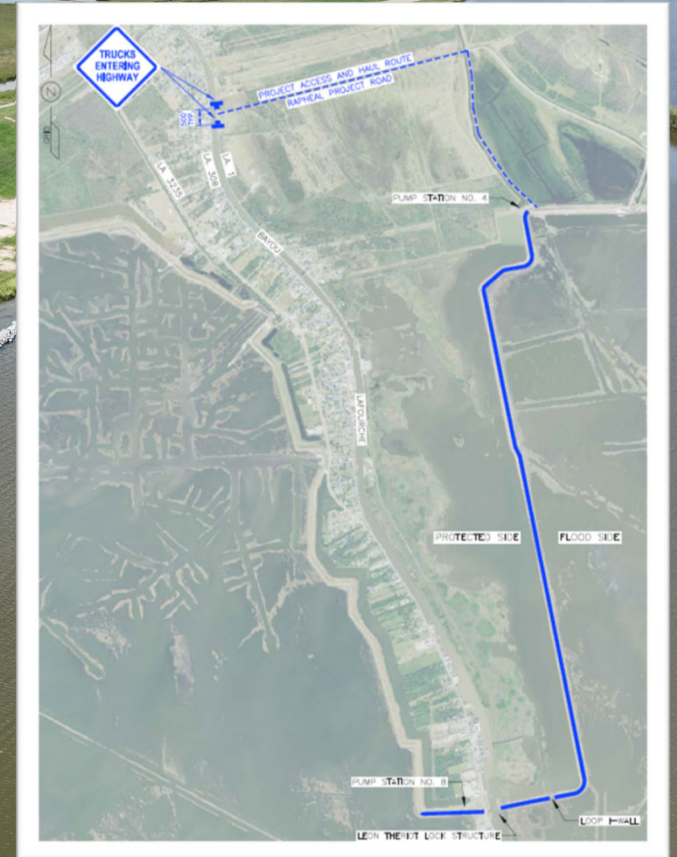
Nic Matherne, CFM – Executive Director





A-East Levee Improvements

BA-0273





A-East Levee Improvements BA-0273

- Construction of approximately 4.73 miles of earthen levee to EL +19.0 ft
- Existing Elevation: +16.0'
- Protected Side Berm Improvements
- Anticipated Bid Advertisement: Summer 2026

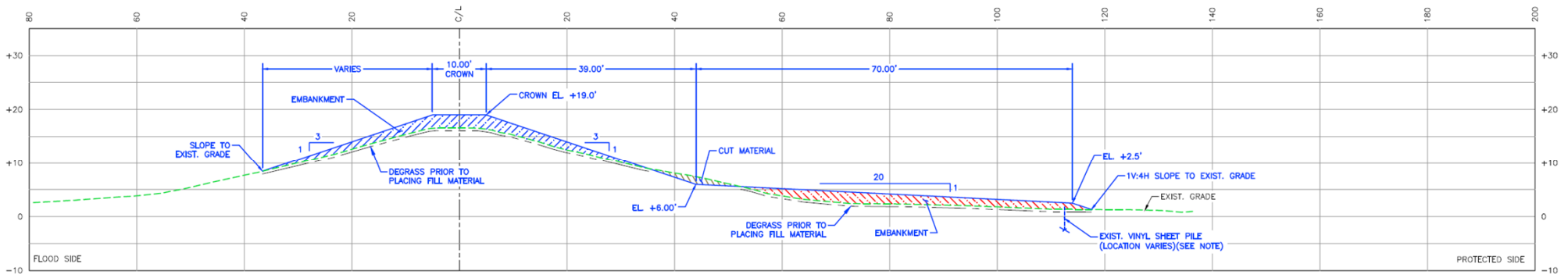


**Project
Location**



A-East Levee Improvements

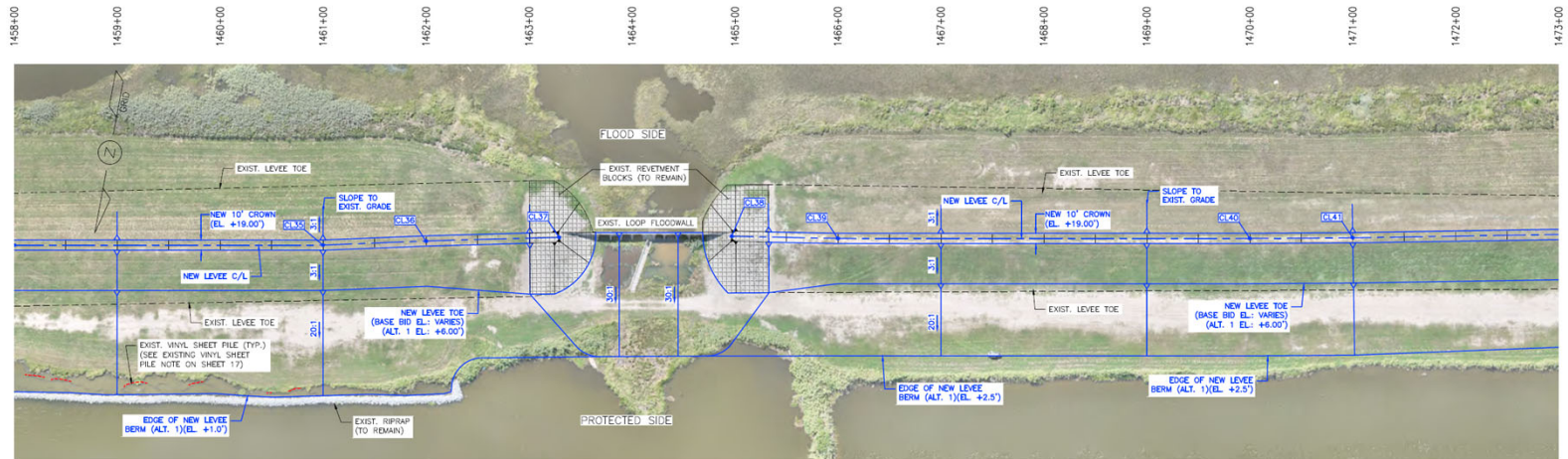
BA-0273



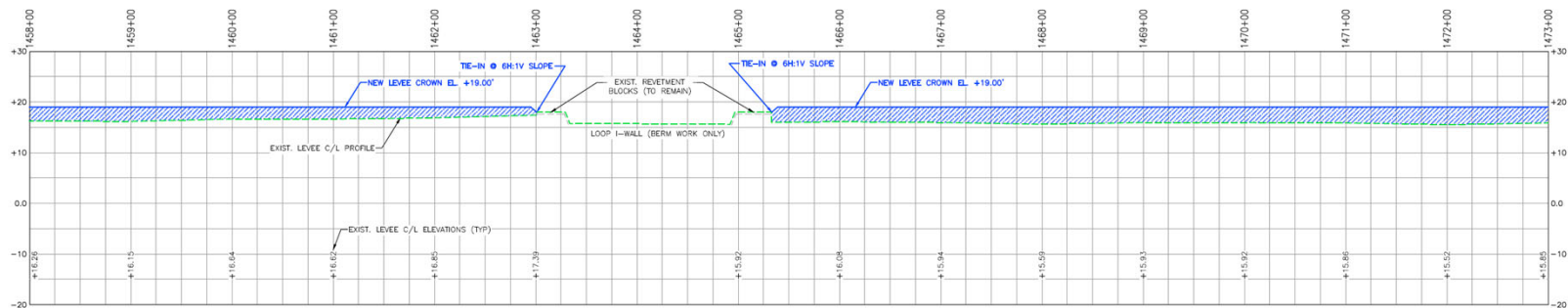
TYPICAL LEVEE DESIGN SECTION (ALTERNATE 1)
SCALE: 1" = 10'-0"



A-East Levee Improvements BA-0273



PLAN VIEW — STA. 1458+00 TO 1473+00
1" = 50'-0"



PROFILE VIEW — STA. 1458+00 TO 1473+00
HORZ: 1" = 50'-0"
VERT: 1" = 10'-0"



A-East Bayou Water Retention





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: Fall 2026



Project Location



ENGINEERING LLC

Coastal Design & Infrastructure
197 Elysian Drive
Houma, LA 70353
O: (985) 219-1000 | F: (985) 475-2014
REGULATORY • PLANNING • ENVIRONMENTAL CONSULTING

REVISIONS		
No.	Description	Date

FINAL DESIGN
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**SOUTH LAFOURCHE
LEVEE DISTRICT
A-EAST
BAYOU WATER RETENTION**

ACCESS ROUTES

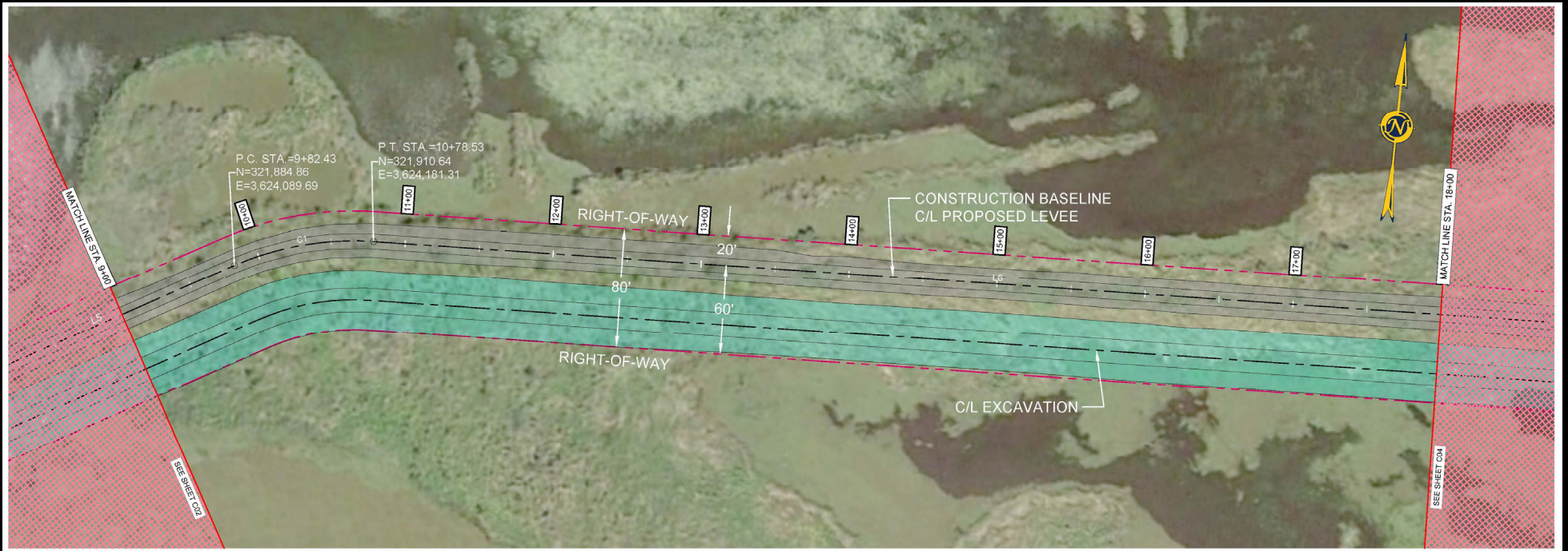
Project number	30130-12511252
Date	JANUARY 2021
Designed by	JTP
Drawn by	JTP
Checked by	LLB
Checked by	SDP
Plot Date	January 26, 2021

G03



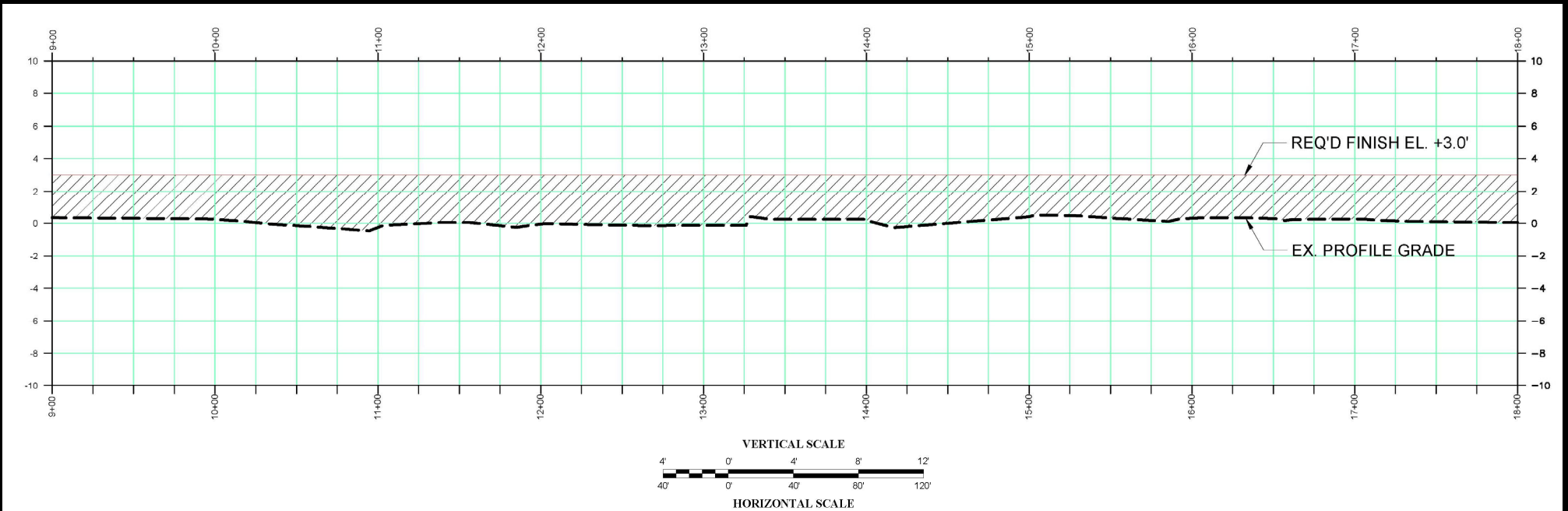


A-East Bayou Water Retention



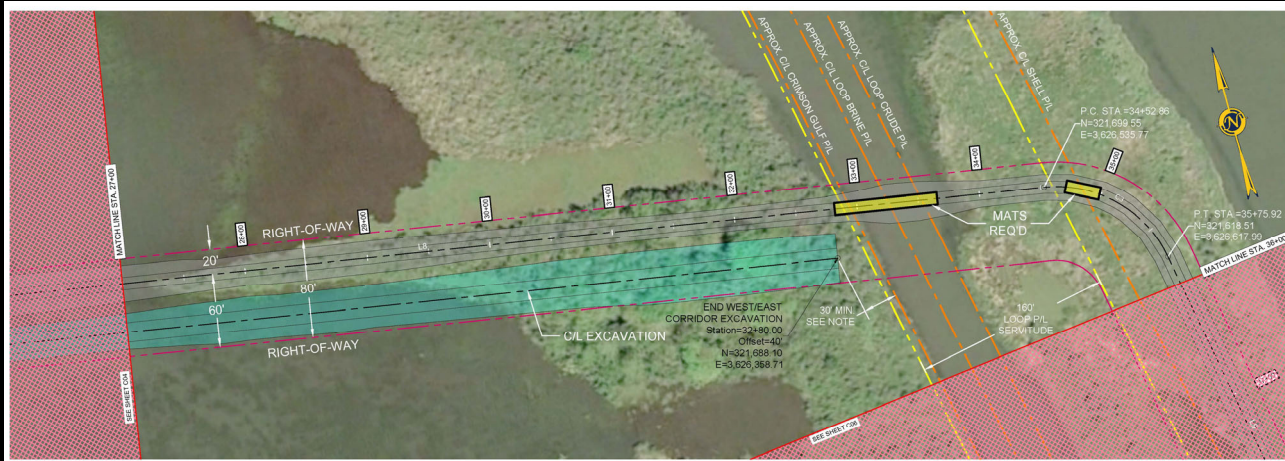


A-East Bayou Water Retention

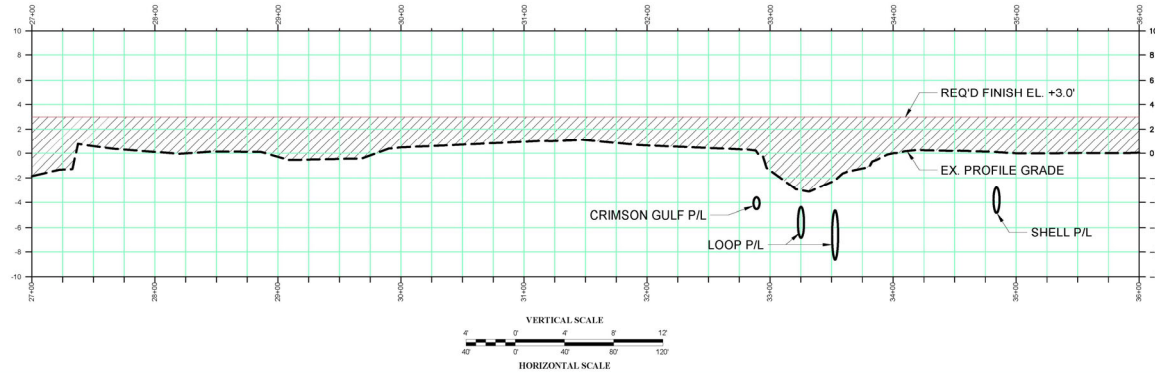




A-East Bayou Water Retention

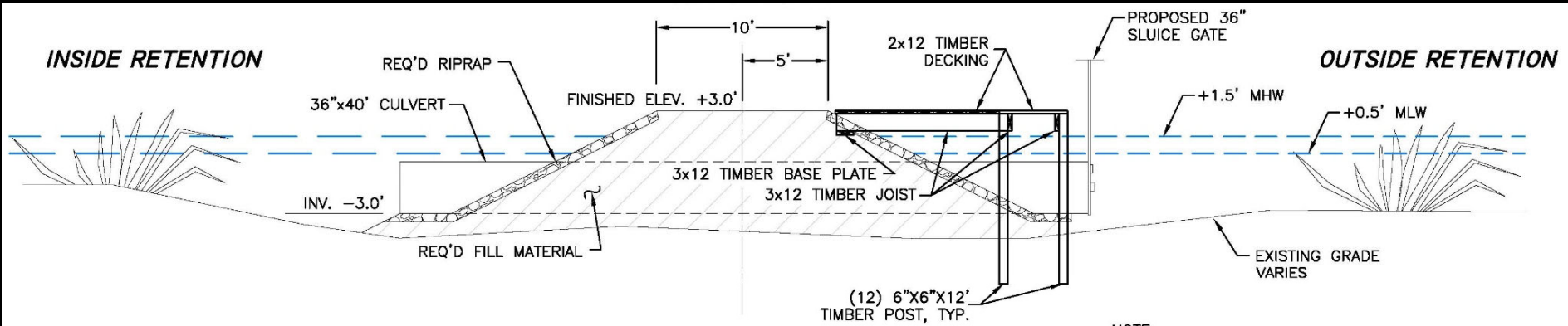


NOTE:
 PIPELINE LOCATIONS SHOWN IN BOTH PLAN AND PROFILE ARE APPROXIMATE.
 CONTRACTOR MUST FIELD VERIFY THEIR POSITION WITH PIPELINE REPRESENTATIVE AND
 MAINTAIN A MINIMUM DISTANCE OF 30' FROM EXISTING PIPELINES WHEN EXCAVATING MATERIAL.
 CONTRACTOR SHALL PLACE MATS A MINIMUM DISTANCE OF 10 FEET TO EITHER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





A-East Bayou Water Retention



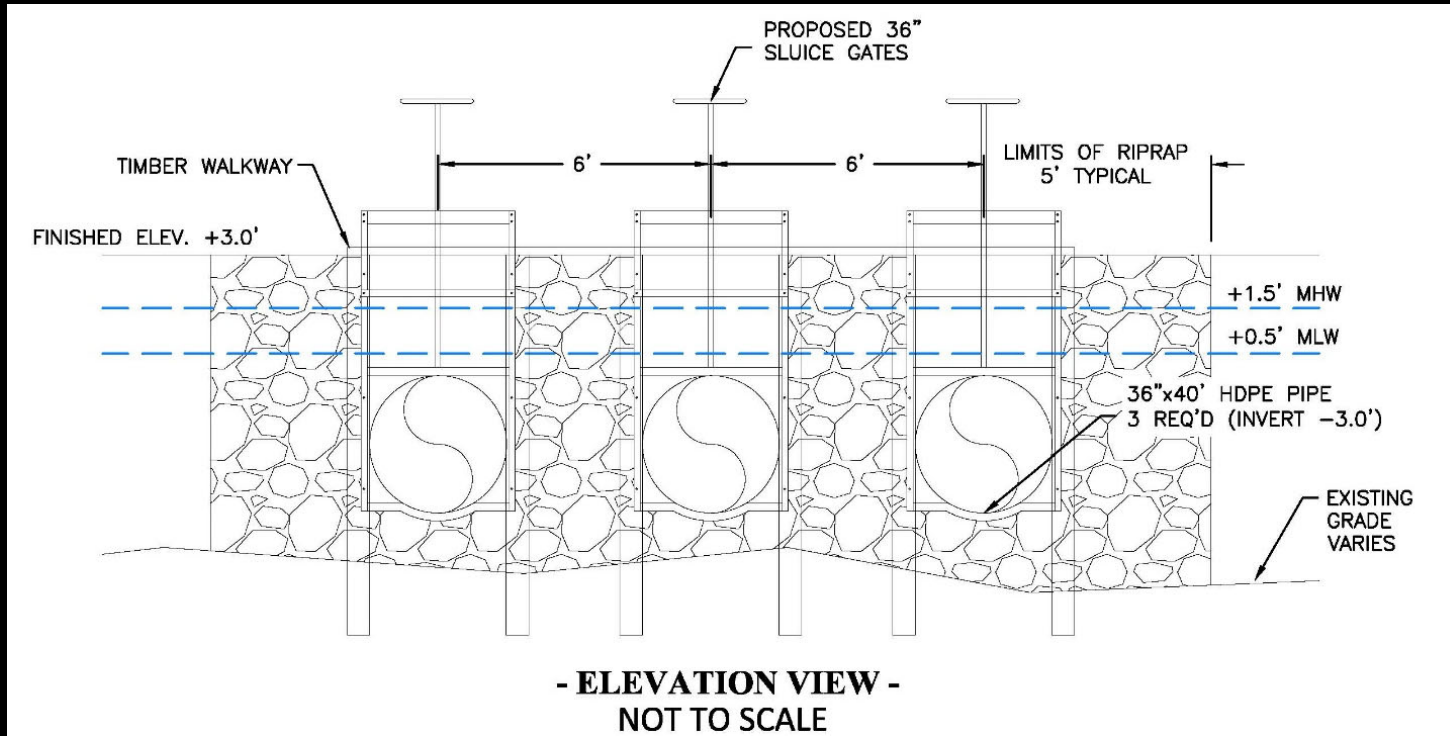
TIDAL EXCHANGE STRUCTURES
- SECTION VIEW -
TYPICAL SLUICE GATE CULVERT PROFILE
NOT TO SCALE

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

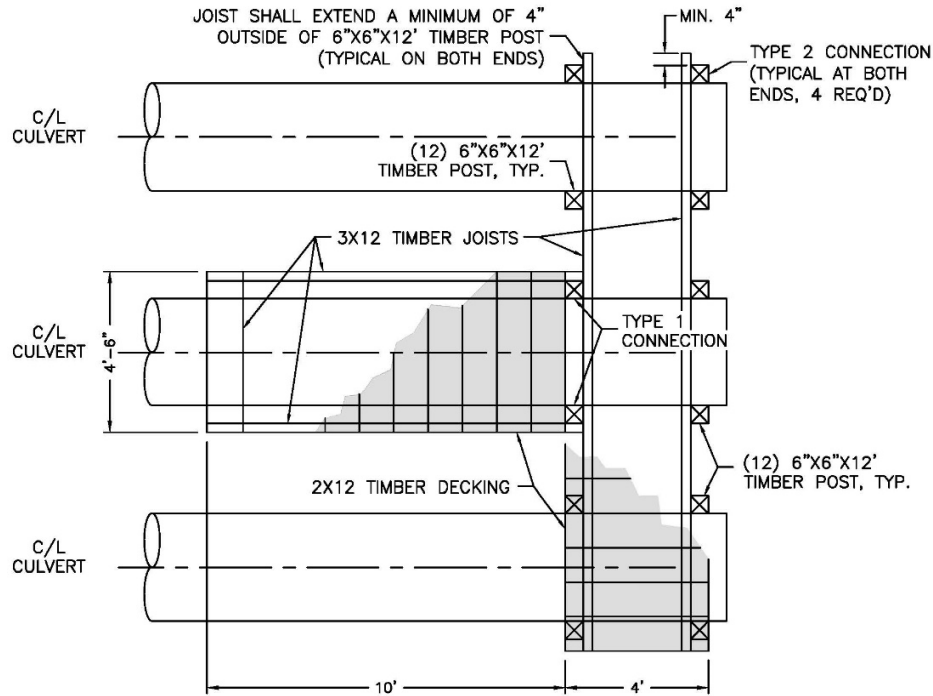


A-East Bayou Water Retention

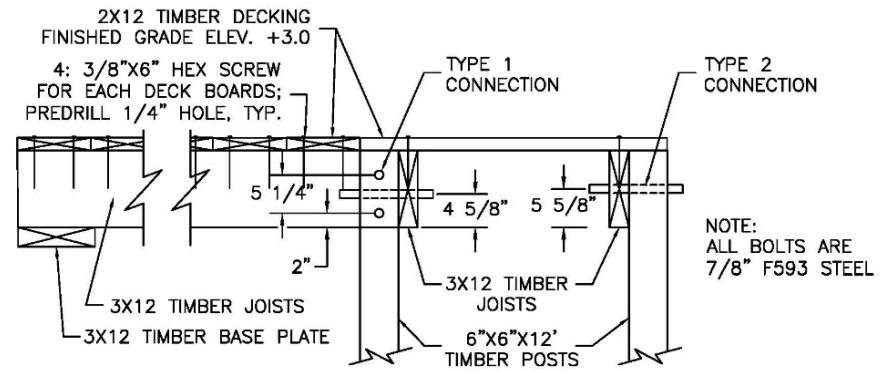




A-East Bayou Water Retention



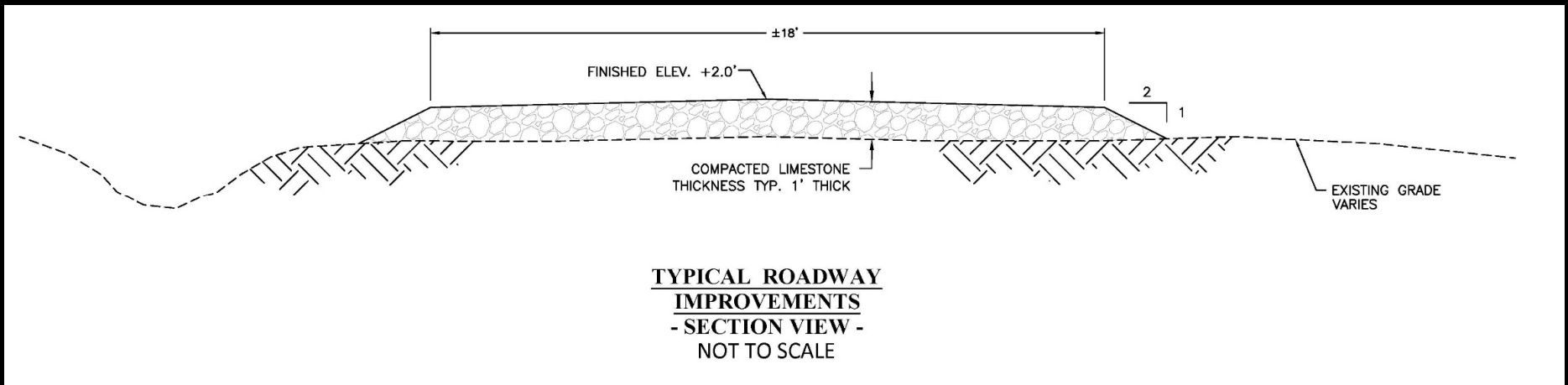
- PLAN VIEW -
NOT TO SCALE



WALKWAY DETAILS
- CONNECTION DETAIL -
NOT TO SCALE



A-East Bayou Water Retention





Section A-West Levee Improvements

TE-0180





Section A-West Levee Improvements

TE-0180

- Construction of approximately 2.7 miles of earthen levee to EL +19.0 ft
- Existing Elevation: +16.0'
- Protected Side Berm Improvements
- Anticipated Bid Advertisement: Spring 2027



Project Location



Section A-West Levee Improvements

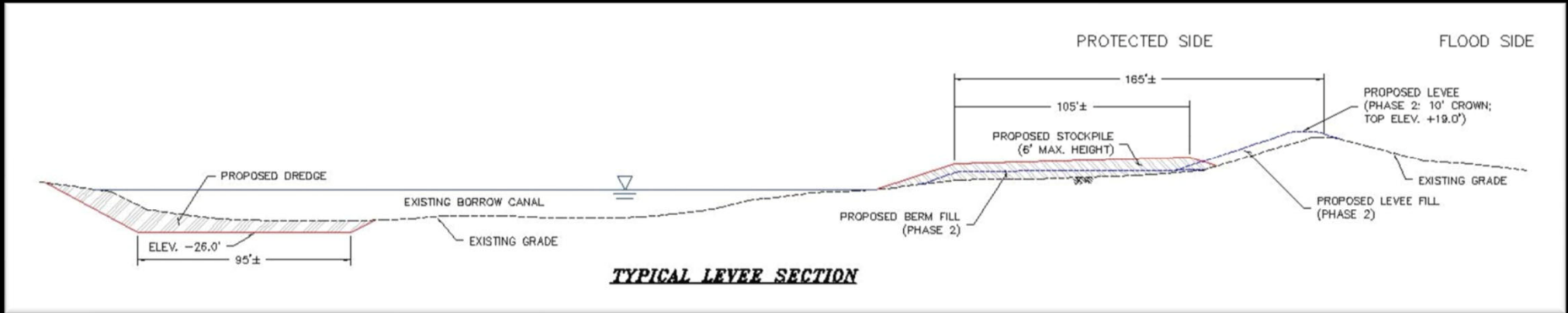
TE-0180





Section A-West Levee Improvements

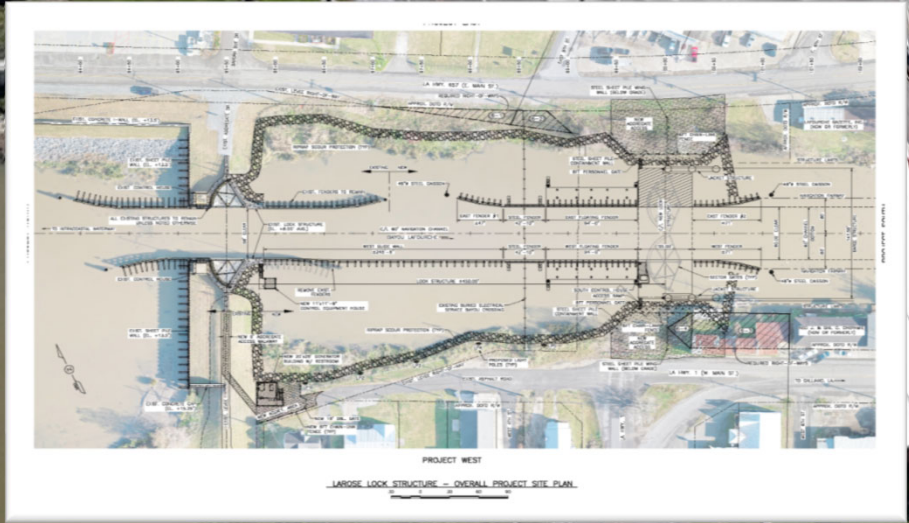
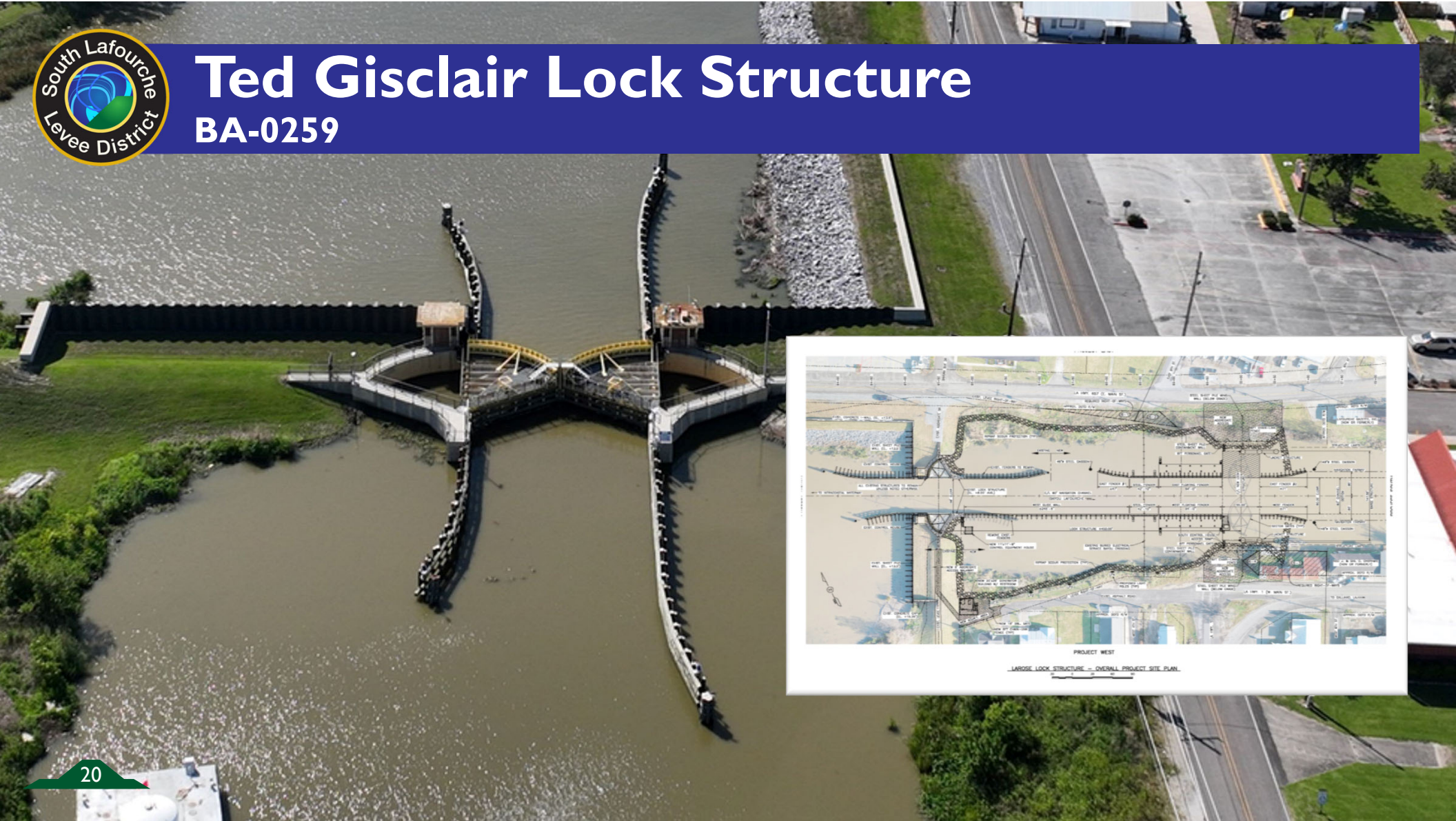
TE-0180





Ted Gisclair Lock Structure

BA-0259





Ted Gisclair Lock Structure BA-0259

- Construction of sector gate structure (60' clear opening) with control house
- Top of deck at EL +5.0'
- Sill at -13.0'
- Approx. 13,000 yd³ channel dredging
- Approx. 10,000 yd³ riprap installation
- Approx 450' long fender system
- Anticipated Bid Advertisement – Fall 2026

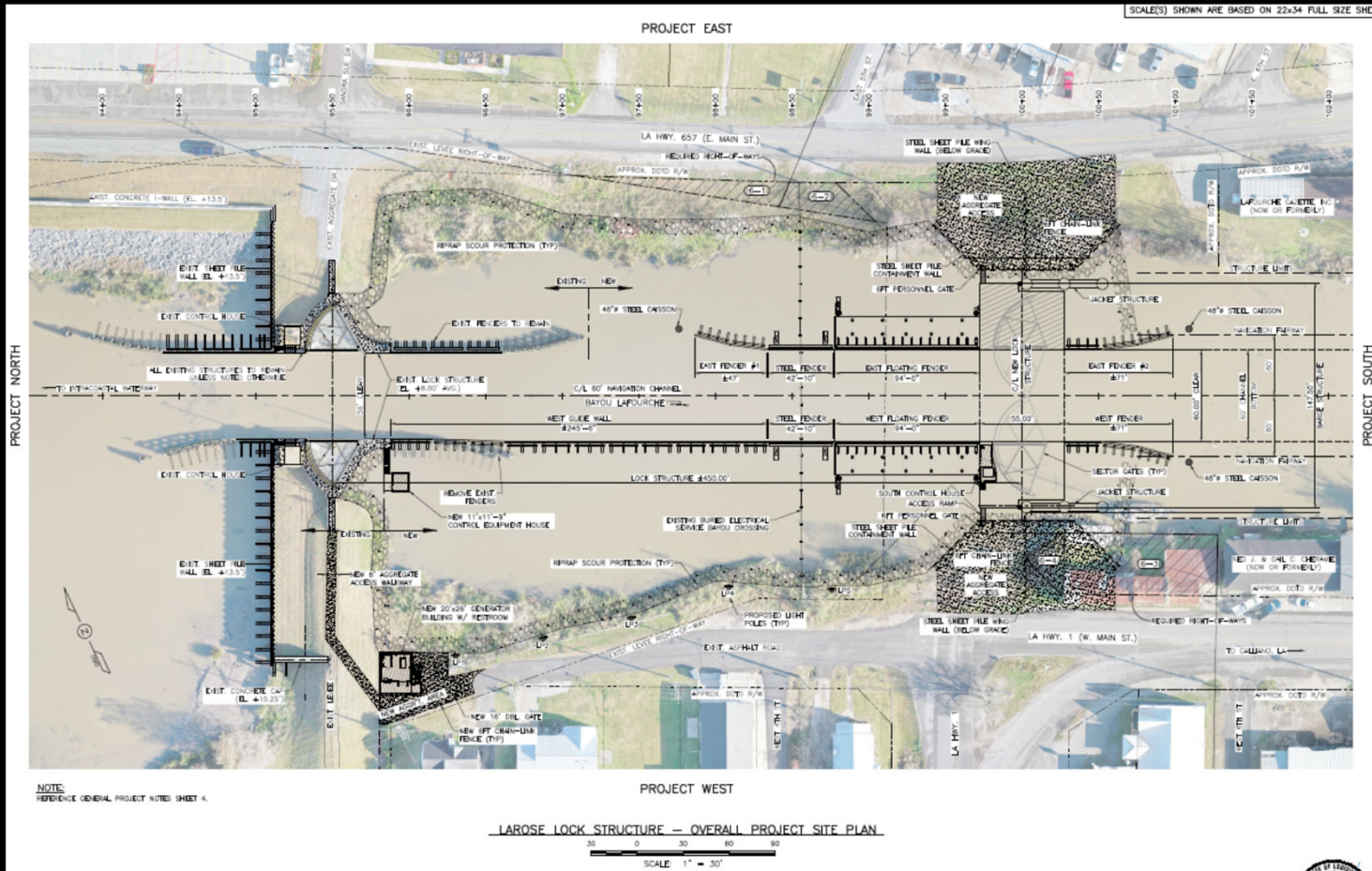


**Project
Location**



Ted Gisclair Lock Structure

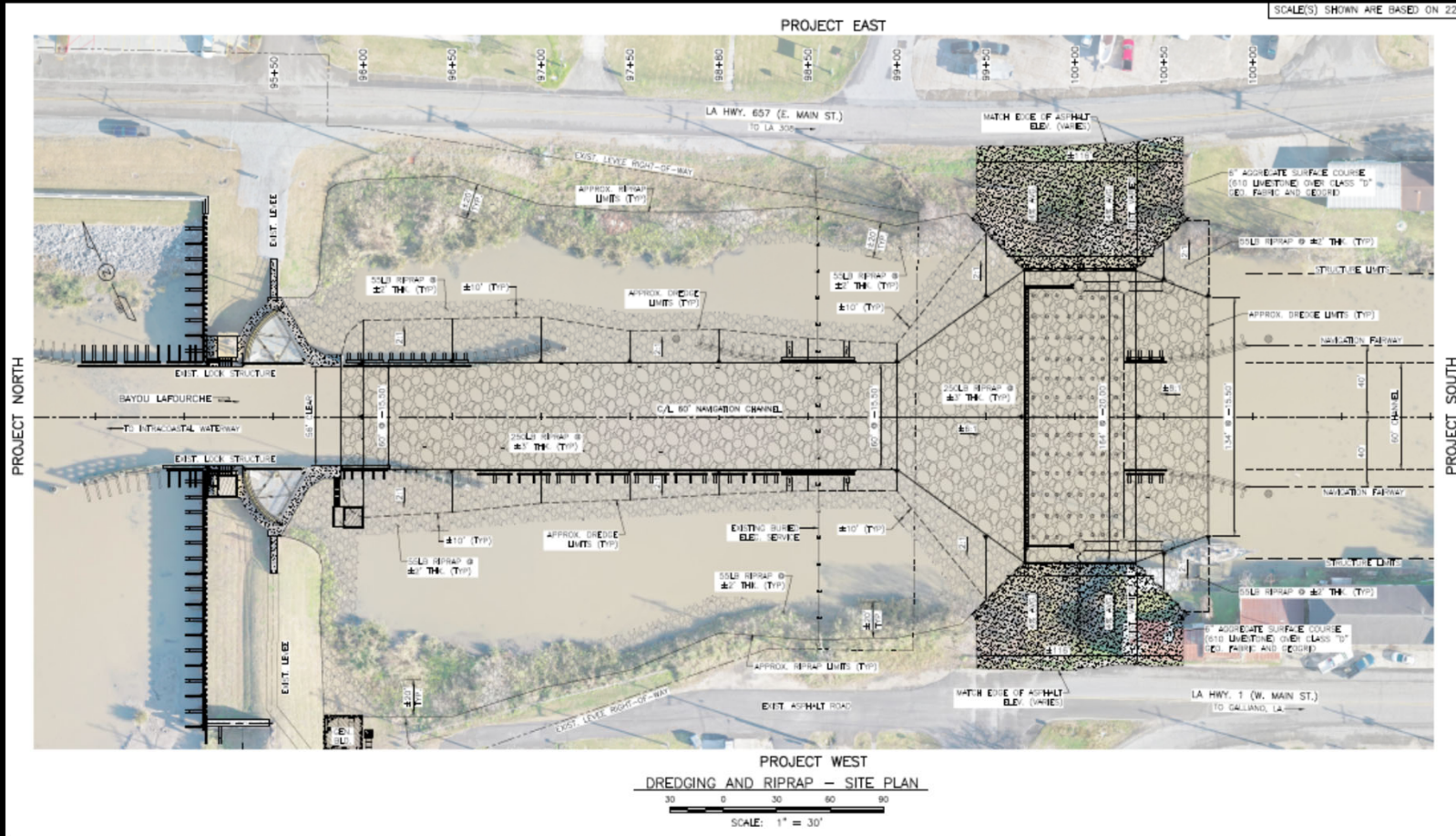
BA-0259





Ted Gisclair Lock Structure

BA-0259





Eastern Terrebonne Landbridge





Lafitte Tidal Protection Program ***CPRA Coastal Industry Week - 2026***

Stephen Amato, PE, PMP | Program Manager | Evans-Graves Engineers
samato@evans-graves.com

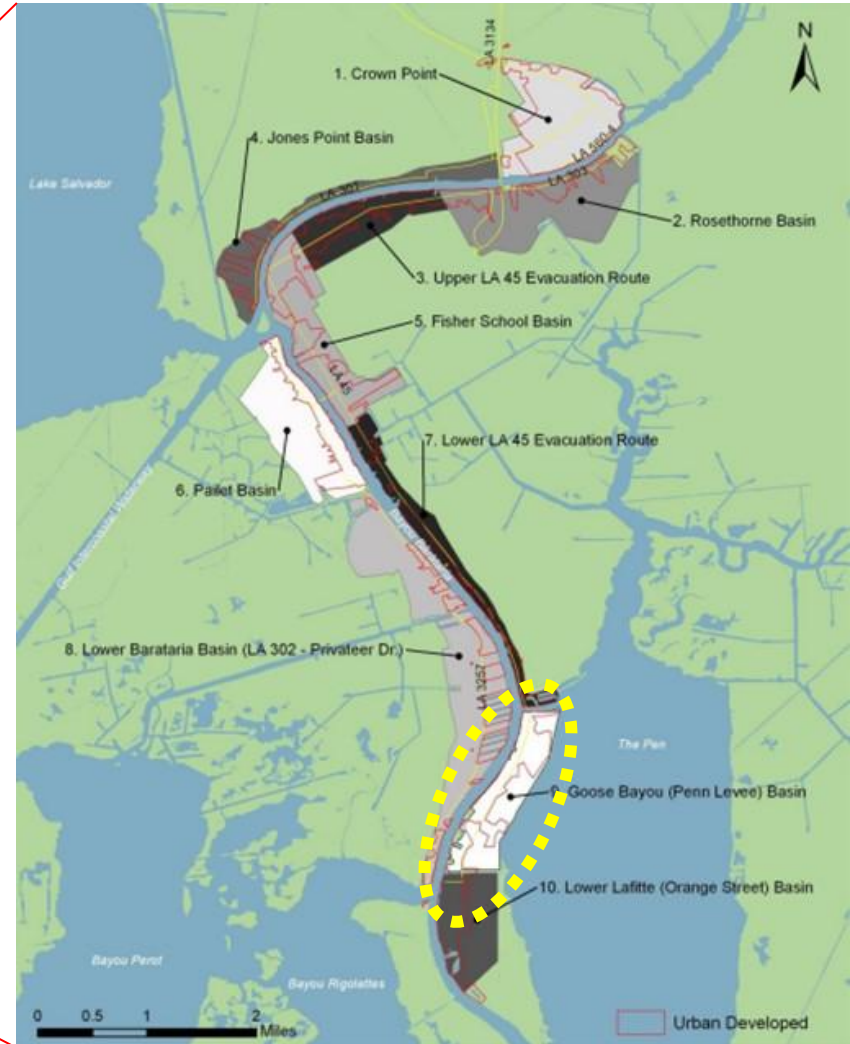
Lafitte Area Independent Levee District
March 31, 2026



Project Location

Lafitte Area

- Town of Jean Lafitte and surrounding communities of Crown Point, Barataria, and Lafitte
- 15 miles south of Downtown New Orleans



Lafitte Tidal Protection Goose Bayou Basin (BA-0223)



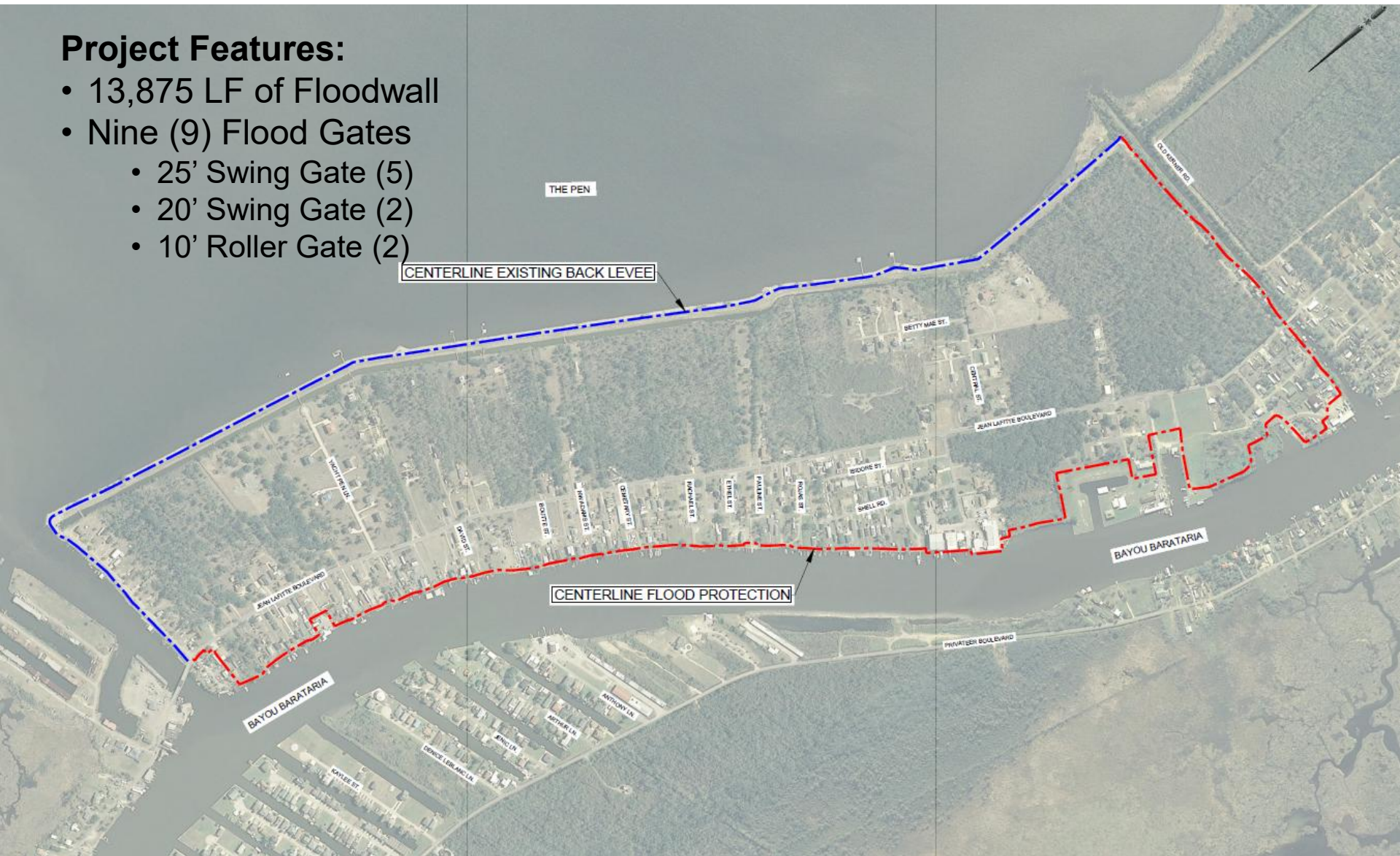
Presentation Overview

- Project Overview
- Typical Floodwall Sections
- Typical Levee Sections
- Gate Details
- Summary of Bid Quantities
- Project Schedule

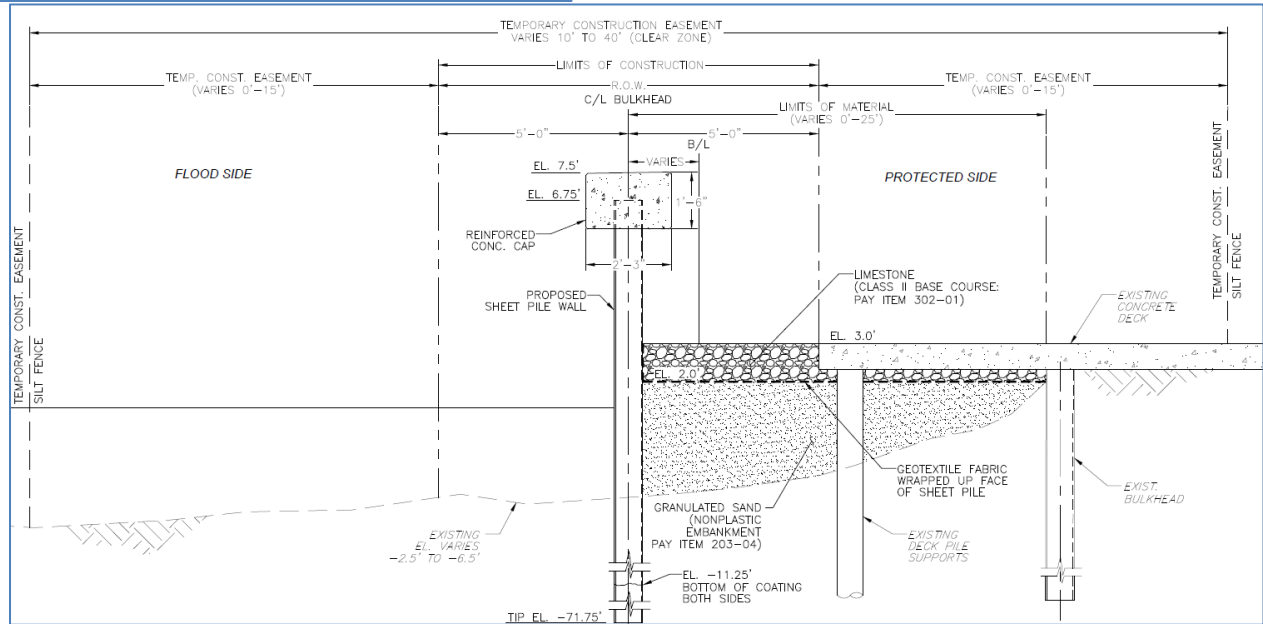
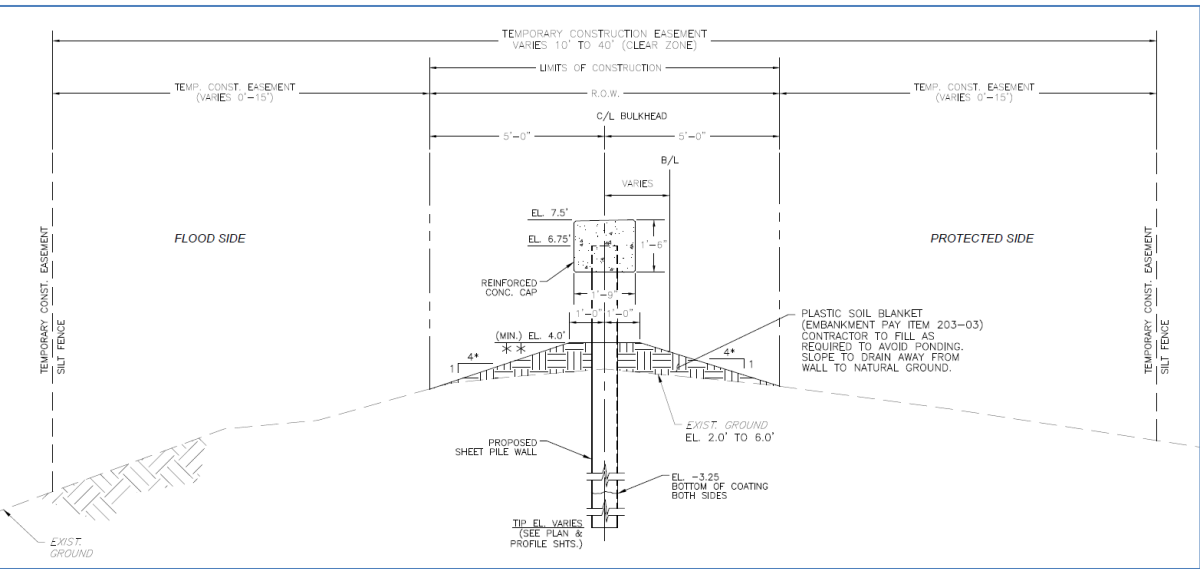
Proposed Project Features

Project Features:

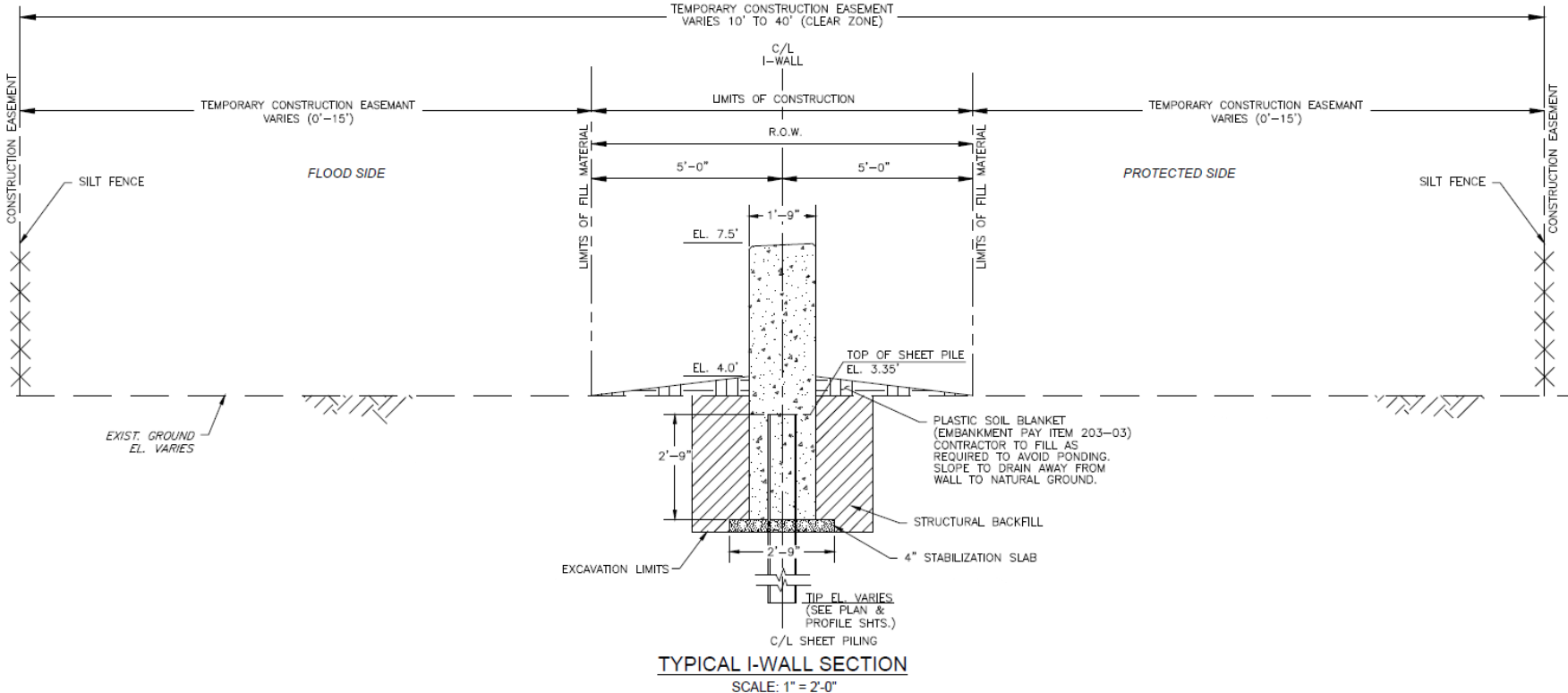
- 13,875 LF of Floodwall
- Nine (9) Flood Gates
 - 25' Swing Gate (5)
 - 20' Swing Gate (2)
 - 10' Roller Gate (2)



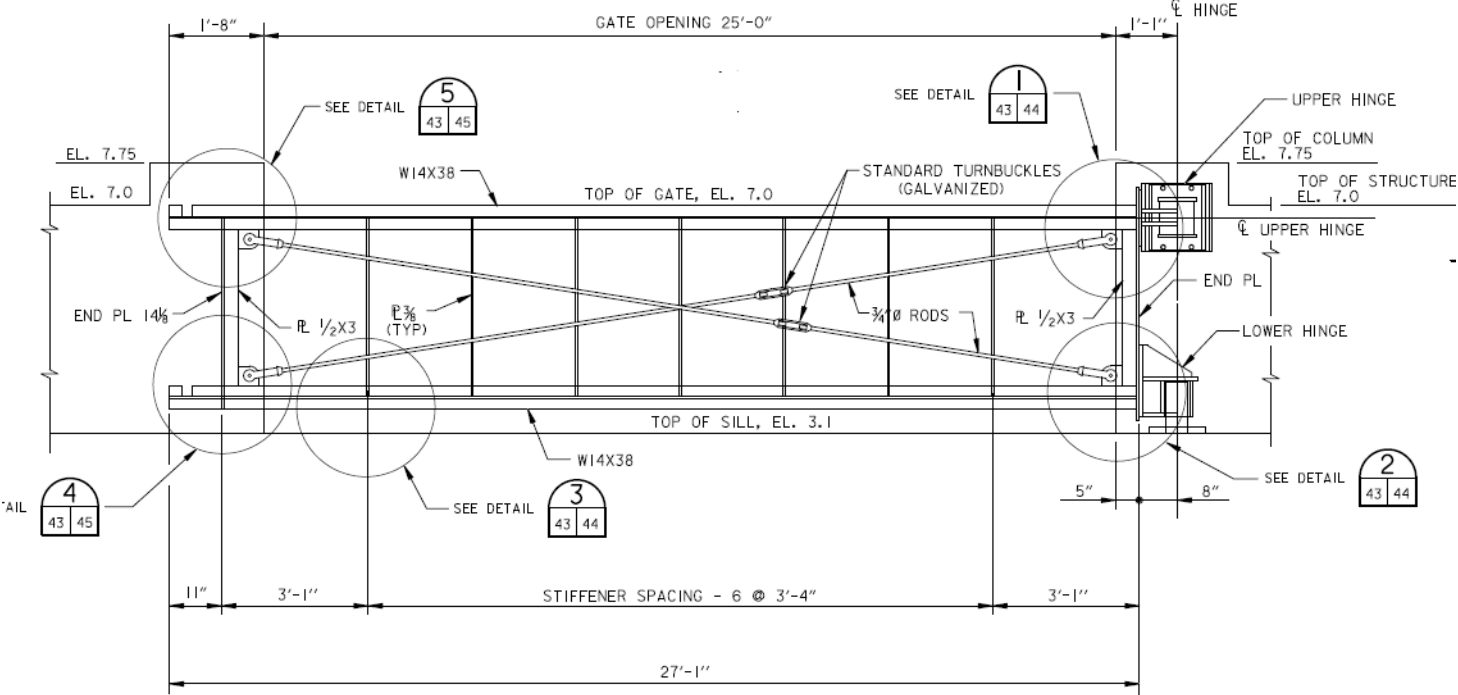
Typical Bulkhead Sections



Typical I-Wall Section



Typical Gate Details (25' Swing Gate)



Summary of Bid Quantities

ITEM	DESCRIPTION	QTY	UNIT
100-01	UTILITY MODIFICATIONS	1	LS
201-01	CLEARING AND GRUBBING	1	LS
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1	LS
202-02	REMOVAL OF CONCRETE SLABS AND ASPHALT	1	LS
202-08	EXCAVATION AND RELOCATION OF RIPRAP	6,000	CY
203-03	EMBANKMENT (NET SECTION)	3,998	CY
203-04-A	NONPLASTIC EMBANKMENT (NET SECTION)	2,460	CY
203-04-B	NONPLASTIC EMBANKMENT (TRUCK MEASURE)	9,460	CY
204-01	TURBIDITY CURTAIN	1,000	LF
204-06	SILT FENCE	14,000	LF
302-01	CLASS II BASE COURSE (TRUCK MEASURE)	431	CY
705-01	SAFETY FENCE	500	LF
706-02	CONCRETE DRIVE (8" THK) (with WWF REINF.)	650	SY
711-03	RIPRAP	900	TON
711-04	GEOTEXTILE FABRIC	80	SY
714-01	SODDING	14,800	SY
722-03	FIELD OFFICE TRAILER	1	LS
739-01	HYDRO-SEEDING AND FERTILIZING	6.48	ACRES
803-01-A	PERMANENT SHEETING (STEEL) (PZC-13)	259,817	SF
803-01-B	PERMANENT SHEETING (STEEL) (PZC-26)	57,397	SF
804-01-A	PRESTRESSED CONCRETE PILE (14"X14")	3,600	LF
804-01-B	PRESTRESSED CONCRETE PILE (16"X16")	1,480	LF
805-01-A	STRUCTURAL CONCRETE (BULKHEAD)	1,309	CY
805-01-B	STRUCTURAL CONCRETE (I-WALL)	152	CY
805-01-C	STRUCTURAL CONCRETE (GATE SLAB)	216	CY
805-01-D	STRUCTURAL CONCRETE (GATE SUPPORT WALL)	28	CY
805-02	STRUCTURAL CONCRETE (4" THK STABILIZATION SLAB)	31	CY
807-01-A	SWING GATE (25' OPENING)	5	EA
807-01-B	SWING GATE (20' OPENING)	2	EA
807-01-C	ROLLER GATE (10' OPENING)	2	EA
811-01-A	CLEANING AND PAINTING HIGH PERFORMANCE COATING SYSTEM (PZC-26 STEEL SHEET PILING)	25,770	SF
811-01-B	CLEANING AND PAINTING C200 COAL TAR EPOXY SYSTEM (PZC-13 STEEL SHEET PILING)	245,930	SF
S-001-A	18" DRAINAGE PIPE THRU BULKHEAD	15	EA
S-001-B	24" DRAINAGE PIPE THRU BULKHEAD	15	EA
S-002	SEWER SERVICE DISCHARGE PIPE	10	EA
S-003	SAW-CUTTING PORTLAND CEMENT CONCRETE PAVEMENT OR ASPHALT (FULL DEPTH)	215	LF
727-01	MOBILIZATION AND DEMOBILIZATION	1	LS
740-01	CONSTRUCTION LAYOUT	1	LS

Schedule

Construction Funding:	Pending
Permitting:	Final Stages
Advertisement:	Summer 2026
Construction Duration:	760 days

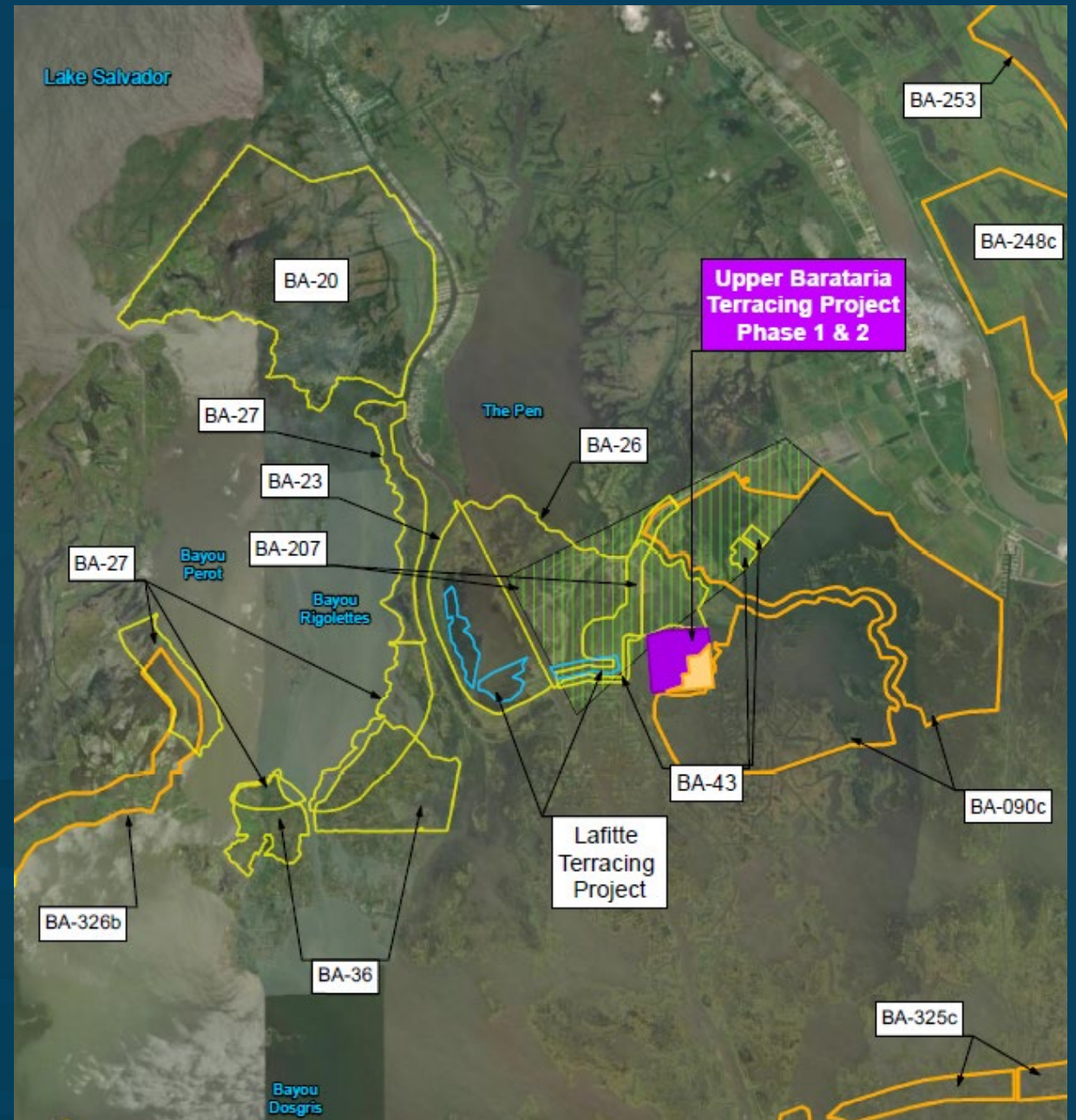


UPPER BARATARIA
TERRACING

CPRA Coastal Industry Week
March 31, 2026

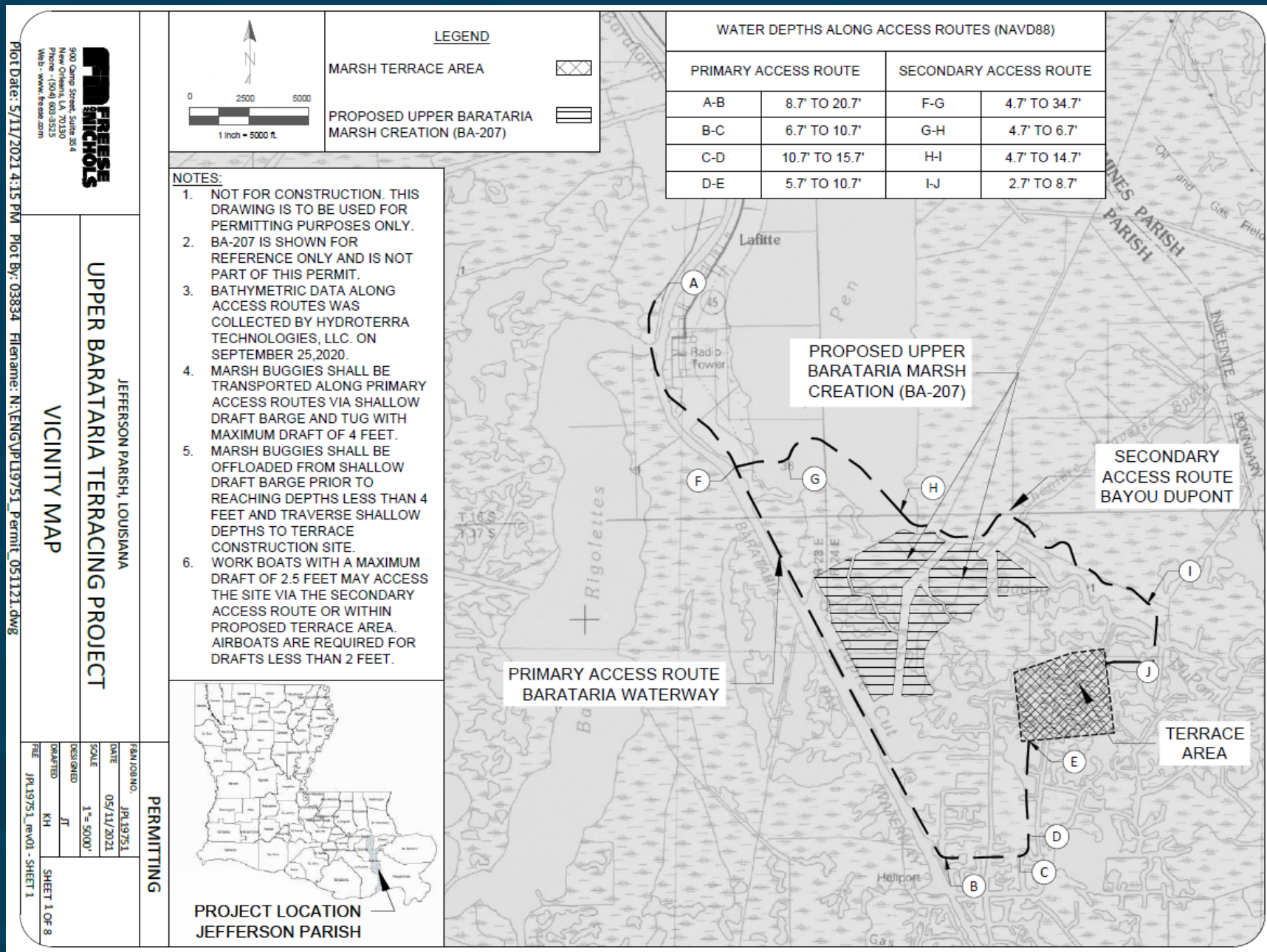
Project Overview

- Upper Barataria Terracing Project
- Lead: Jefferson Parish Government
- Engineer: Freese and Nichols, Inc.
- Landowner: Parish School Board
- Funding: NFWF (2022 & 2024 NCRF)
- 600 Acres of Marsh Restoration
- 45,000 Linear Feet of Terraces
- Stabilized with Native Vegetation
- Joint Permit Received (Phase I and II)



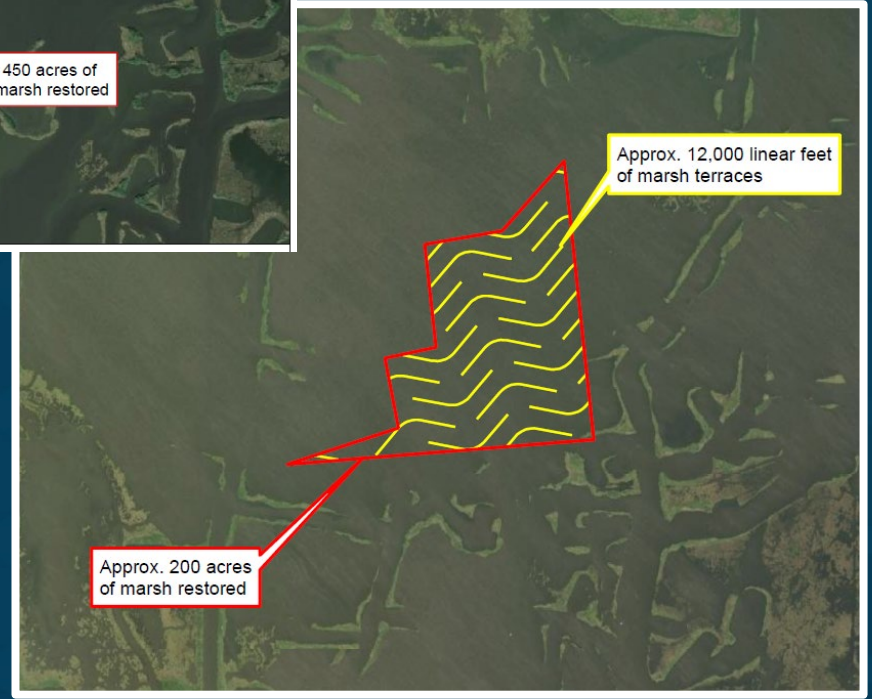
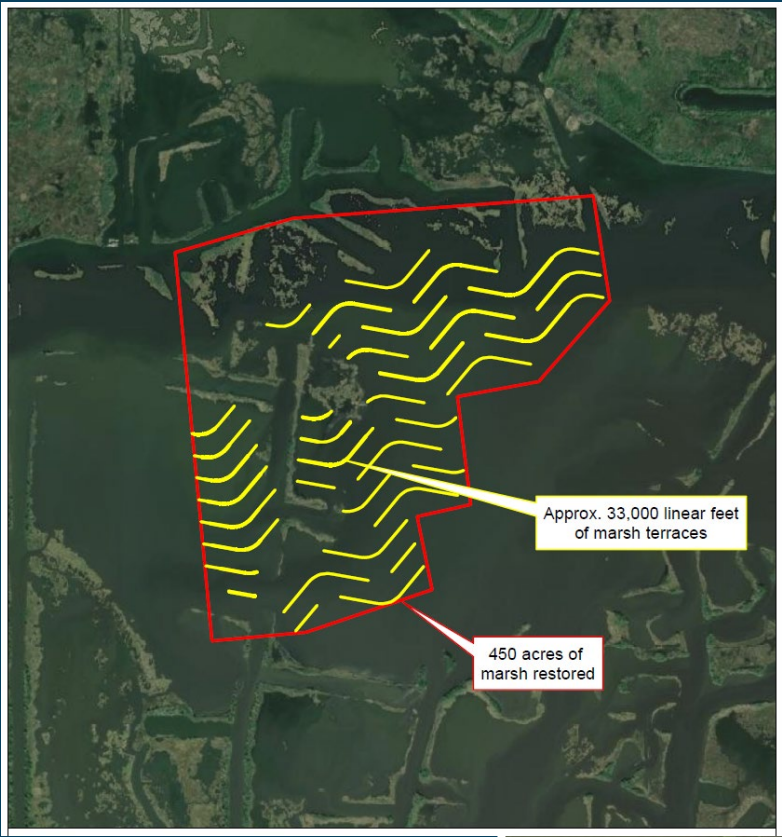
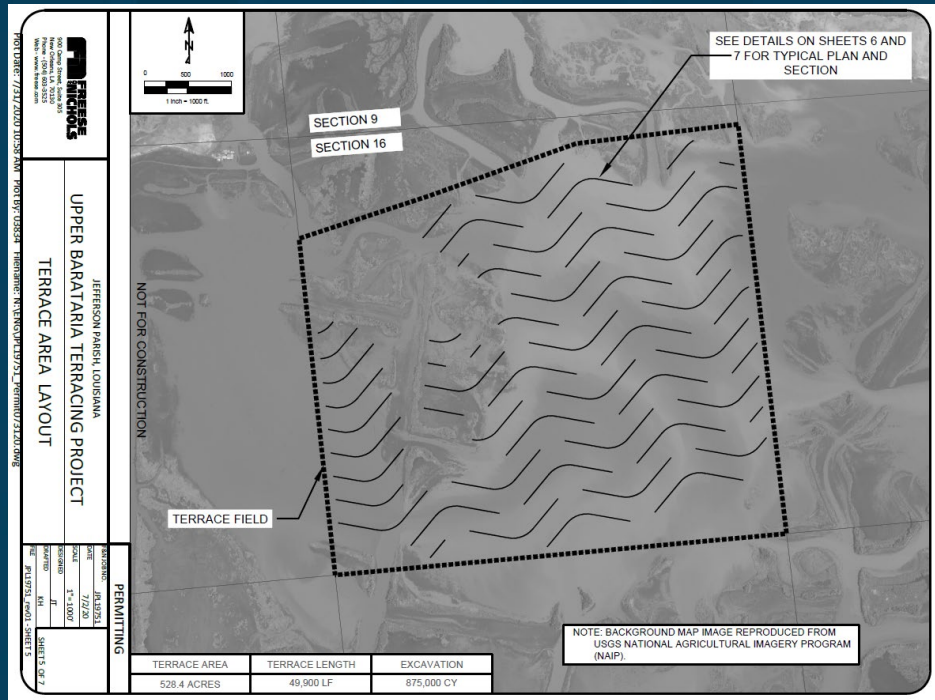
Access Routes

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

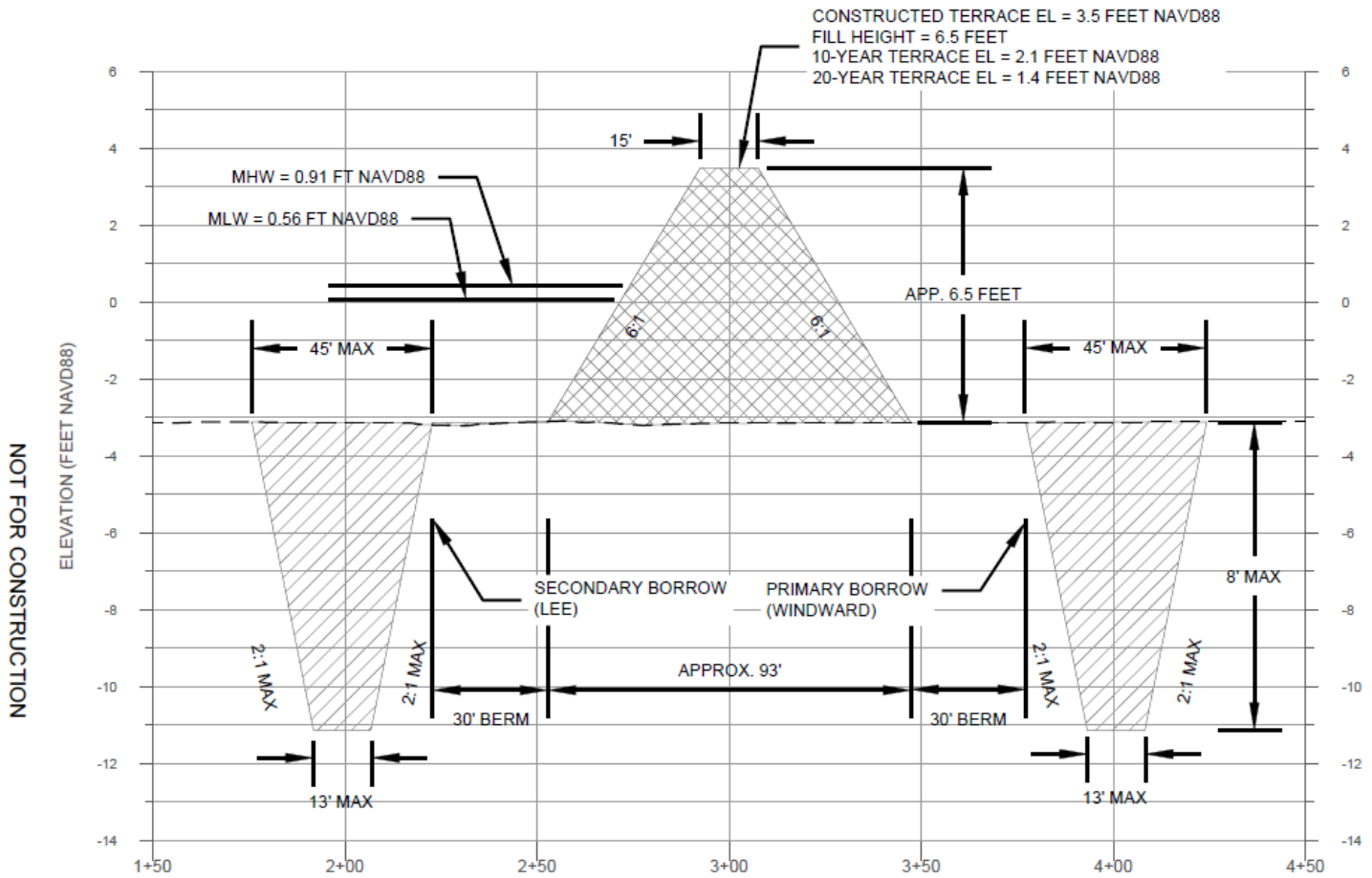


Terrace Design

- Design to Maximize Footprint on School Board Property
 - ~45,000 LF Terraces
 - ~600 Acres Marsh Habitat



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



TYPICAL EARTHEN TERRACE CROSS SECTION

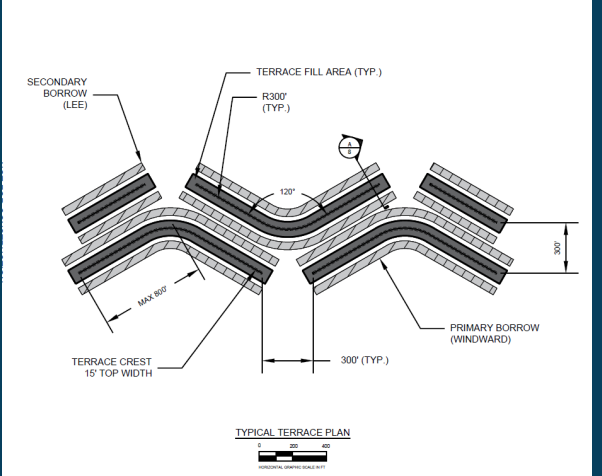


LEGEND

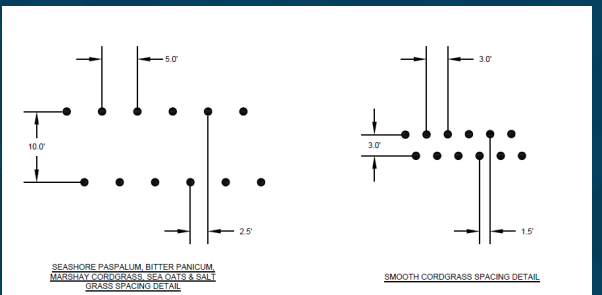
EARTHEN TERRACE

EARTHEN TERRACE BORROW AREA

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



TYPICAL TERRACE PLAN



TYPICAL TERRACE PLANTING PLAN

FREESE & NICHOLS
 900 Camp Street, Suite 354
 New Orleans, LA 70130
 Phone - (504) 600-5225
 Web - www.fnen.com

JEFFERSON PARISH, LOUISIANA
 UPPER BARATARIA TERRACING PROJECT
 TYPICAL TERRACE SECTION

PERMITTING
 REVISION NO. JPR.19751
 DATE 05/11/2021
 SCALE 1"=40'
 DESIGNED JT
 QUANTIFIED KH
 FILE JPL19751 rev.01 - SHEET 7
 SHEET 8 OF 8

Plot Date: 5/11/2021 4:24 PM Plot By: 03834 Filename: N:\ENGV\PL19751_Permit_051121.dwg

Estimated Quantities (Phase II)

Item No.	Description	Unit	Quantity
1	Survey	LS	1
2	Earthen Terraces	LF	20,000
3	Dredge Volume	CY	800,000
4	Dredge Placement Area	AC	60
5	Vegetative Plantings	AC	10

Project Schedule (Phase II)

Consistency Determination Received (DNR)	June 28, 2021
Construction Permit Received (USACE)	May 23, 2022
NFWF (2024) Project Period Start	March 1, 2026
Final Engineering & Design	June 2026
Bid Advertisement	August 2026
Construction Duration	120 Days
Monitoring Duration	1 Year

QUESTIONS?



LOCAL POC's:

Kiara Horton, PE | (504) 300-8267 | kiara.horton@freese.com

Matt Salmon, PE | (504) 291-3496 | matthew.salmon@freese.com

Ryan Fikes, CERP | (512) 617-3141 | ryan.fikes@freese.com

Nina Reins, PE | (504) 478-1065 | nina.reins@freese.com

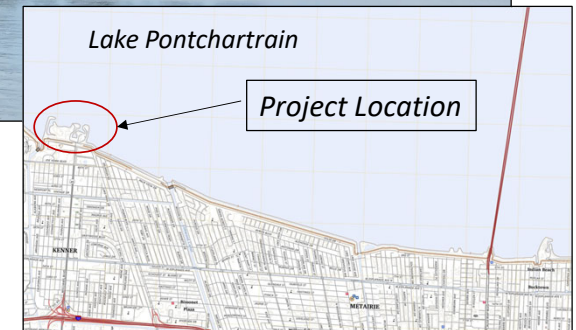


LAKETOWN SHORELINE PROTECTION

CPR A Coastal Industry Day



March 31, 2026



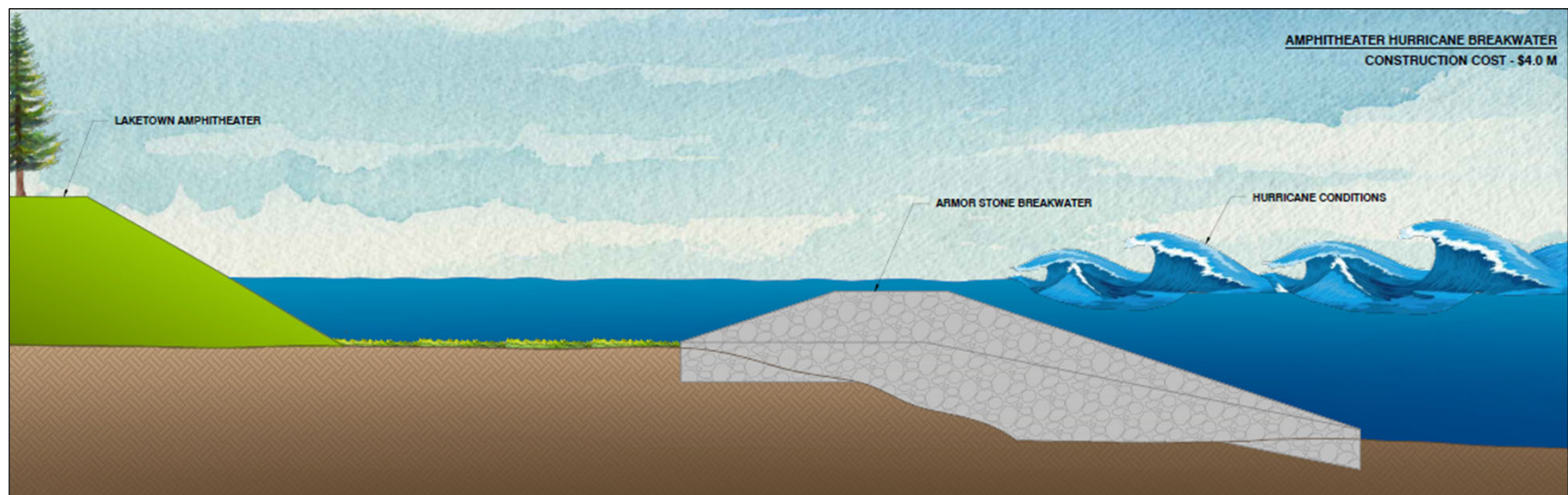
Andre C. Monnot, P.E.
andre@pi-aec.com



Project Overview

PURPOSE & NEED: Protect \$20M Amphitheater Complex from erosion and impact damage from wave action during hurricanes.

SCOPE OF WORK: Construct 800 ft long rubble-mound breakwater at existing shoreline.



Project Data



- \$4.0M Budget
- Available Land & Marine Access
Williams Blvd, over Levee
Depths 4-5 ft, w/in 15ft of shore
- Estimated Quantities
Armor Stone 17,700 Tons
Geotex. Fabric 4,485 SY
Bedding Stone 1,980 CY

Project Schedule

Preliminary Design Complete

April 2026

Permit Applications

May 2026

Final Design Complete

August 2026

Regulatory Authorization

December 2026

Questions?





Hurricane Laura Water Control Structures Repair Project (East)

CAMERON & VERMILION PARISH, LOUISIANA

Harry Spavin P.E.

PROJECT OVERVIEW

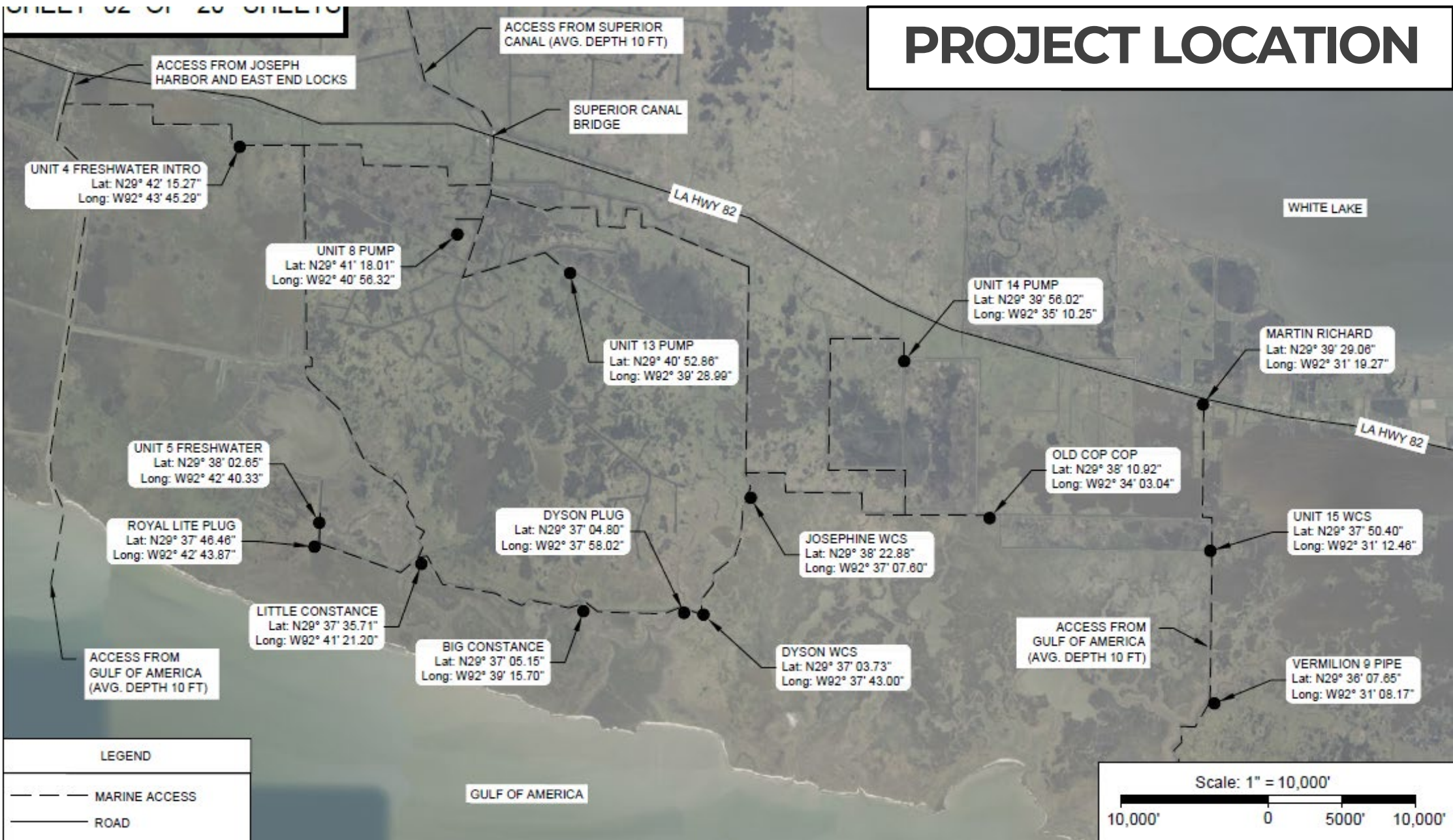
- Hurricane Laura Water Control Structure Repair Project
- Rockefeller Wildlife Refuge, Cameron and Vermilion Parish
- 15 Unique Structures (varying degrees of damage)
 - *Pump Houses (3)*
 - *Culverts with Flapgates (8)*
 - *Sheetpile bulkheads (2)*
 - *Concrete Sluice Gate Structures (2)*



FEMA



PROJECT LOCATION



PROJECT DETAILS

Major Project Repair Items

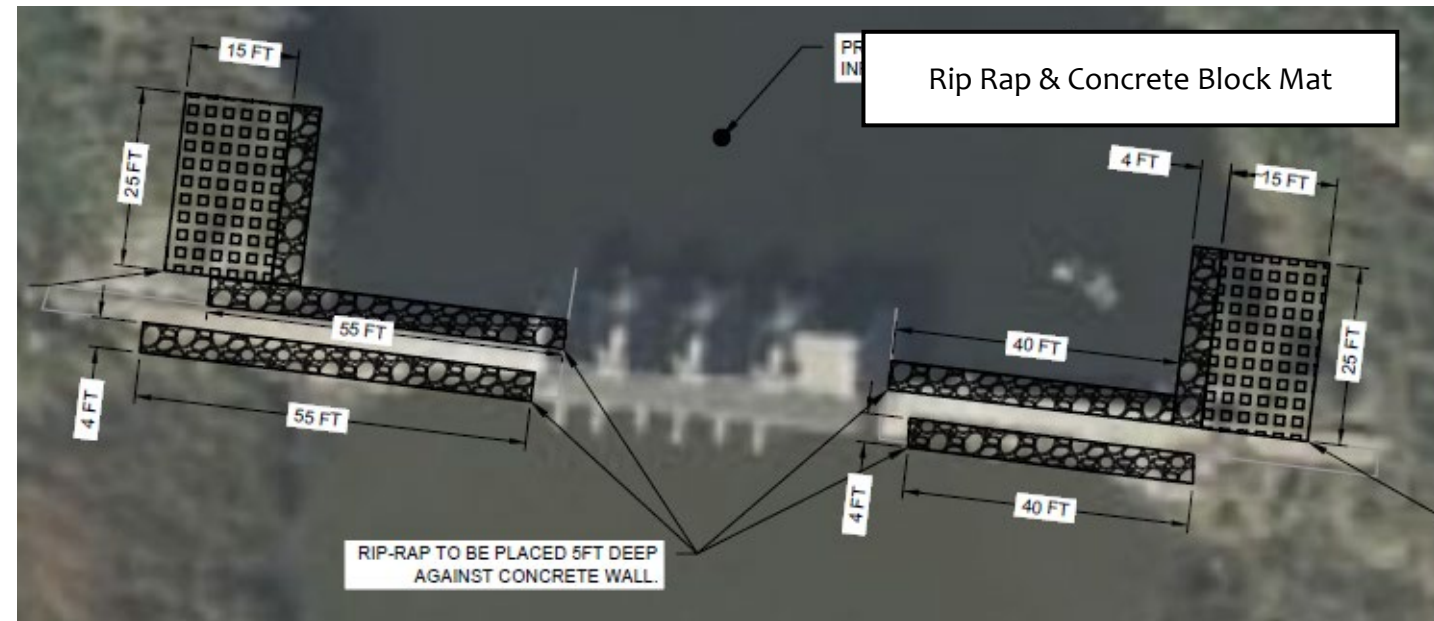
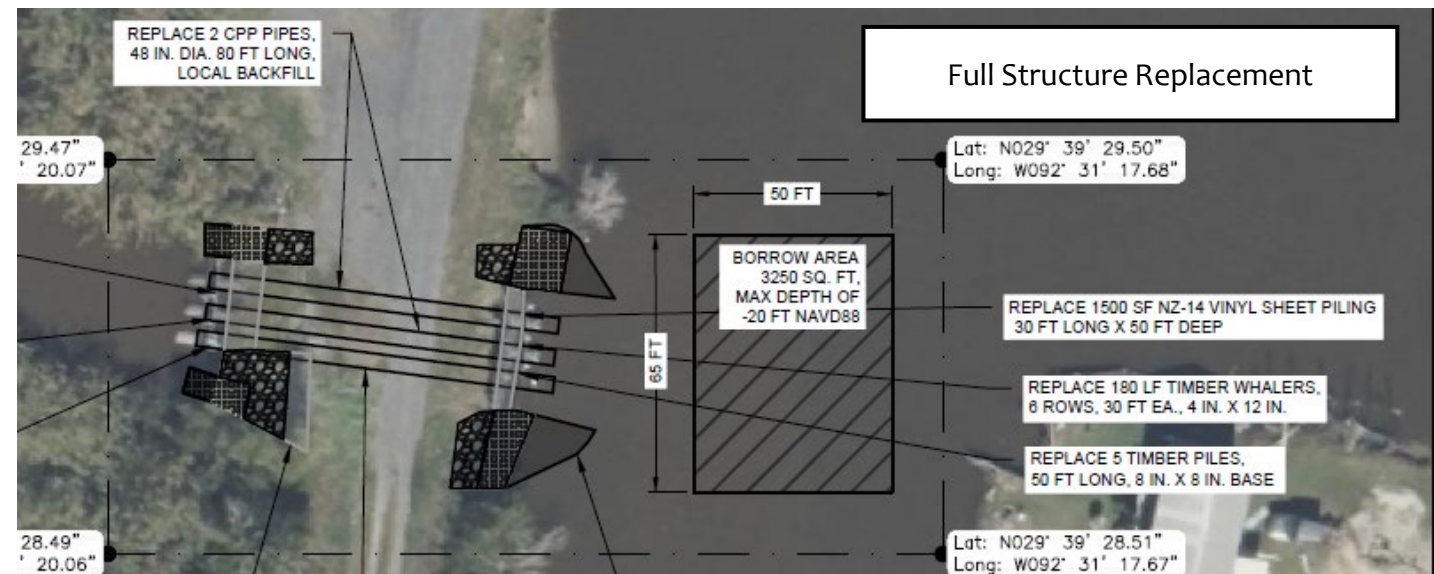
Description of Items	Quantity	Unit
Structure Information Sign	10	EA
Compacted Local Dredge Clay Backfill	7,052	CY
Articulated Concrete Block Mat	22,800	SF
Geotextile Fabric	42,410	SF
Rip Rap (55LB)	502	TONS
Crushed Limestone	533	TONS
Sheet Pile	8,000	SF
Chain Link Fence & Gates	265	LF
Timber Framing & Piles	3000	LF
Culverts with Flapgates	5	EA



PROJECT DETAILS

Major Project Repair Items

Description of Items	Quantity	Unit
Structure Information Sign	10	EA
Compacted Local Dredge Clay Backfill	7,052	CY
Articulated Concrete Block Mat	22,800	SF
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Sheet Pile	8,000	SF
Chain Link Fence & Gates	265	LF
Timber Framing & Piles	3000	LF
Culverts with Flapgates	5	EA



UNIQUE ASPECTS

- Marine Access with Minimal Land Access
- Variable Existing conditions
 - Structure age and type
- Multi-site Logistics
 - 15 unique structure locations



PROJECT SCHEDULE

- Preliminary Design has been completed
- Permits have been acquired
- Awaiting confirmation to begin final design
- Expected bid timeline - Fall 2026
- Estimated Construction Costs
\$4M - \$6M





Thank You

Harry Spavin P.E.
337.237.2200 x1234
harry@fenstermaker.com
www.fenstermaker.com





DUCKS UNLIMITED

Upcoming South LA DU Projects
CPRA Industry Day

Brad Lambert, PE

Manager of Engineering Services

South Louisiana Field Office



Notes/ Overview



- Thanks to CPRA for allowing us to participate and being a partner on some of these projects.
- Presentation includes:
 - 5 of our larger projects coming up within the next 18 months.
 - Relatively smaller projects vs. one large project
 - All located within south LA
 - All are marine type construction
 - Ongoing with design and/or permitting currently for most of these projects



Types of Projects



- Structures/Embankment
 - Hog Bayou Weir Replacement
 - Boyd Allen Structure Replacement
 - White Lake WCA – Unit 2 Levee Enhancement



- Earthen Terraces
 - NE Little Lake Terraces



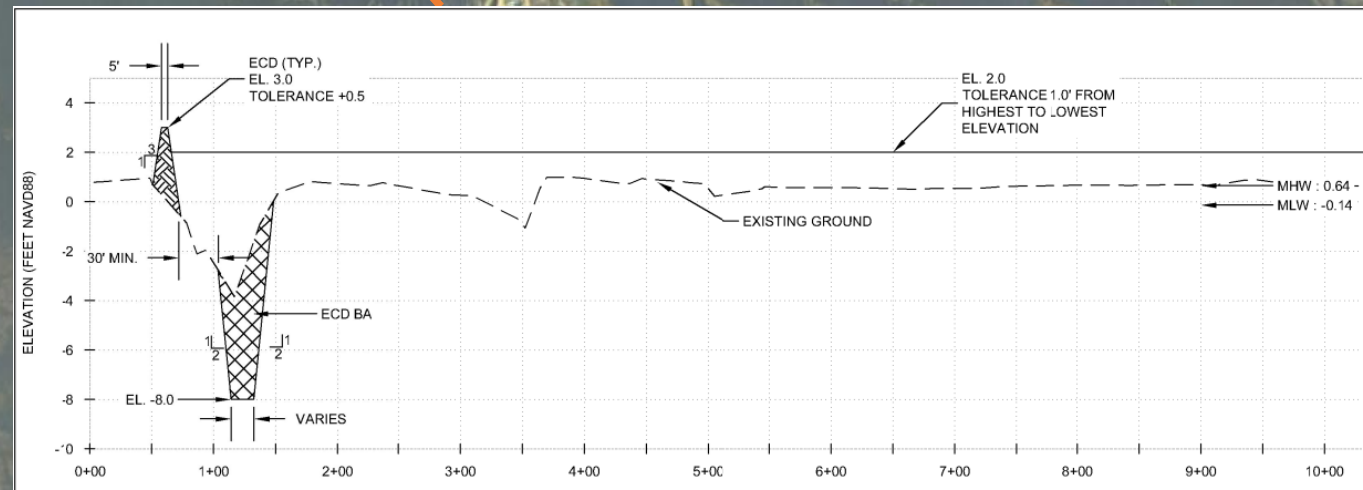
- Marsh Creation
 - Golden Meadow Marsh Creation PH II



Upcoming DU Projects – Marsh Creation

Golden Meadow Marsh Creation PH II

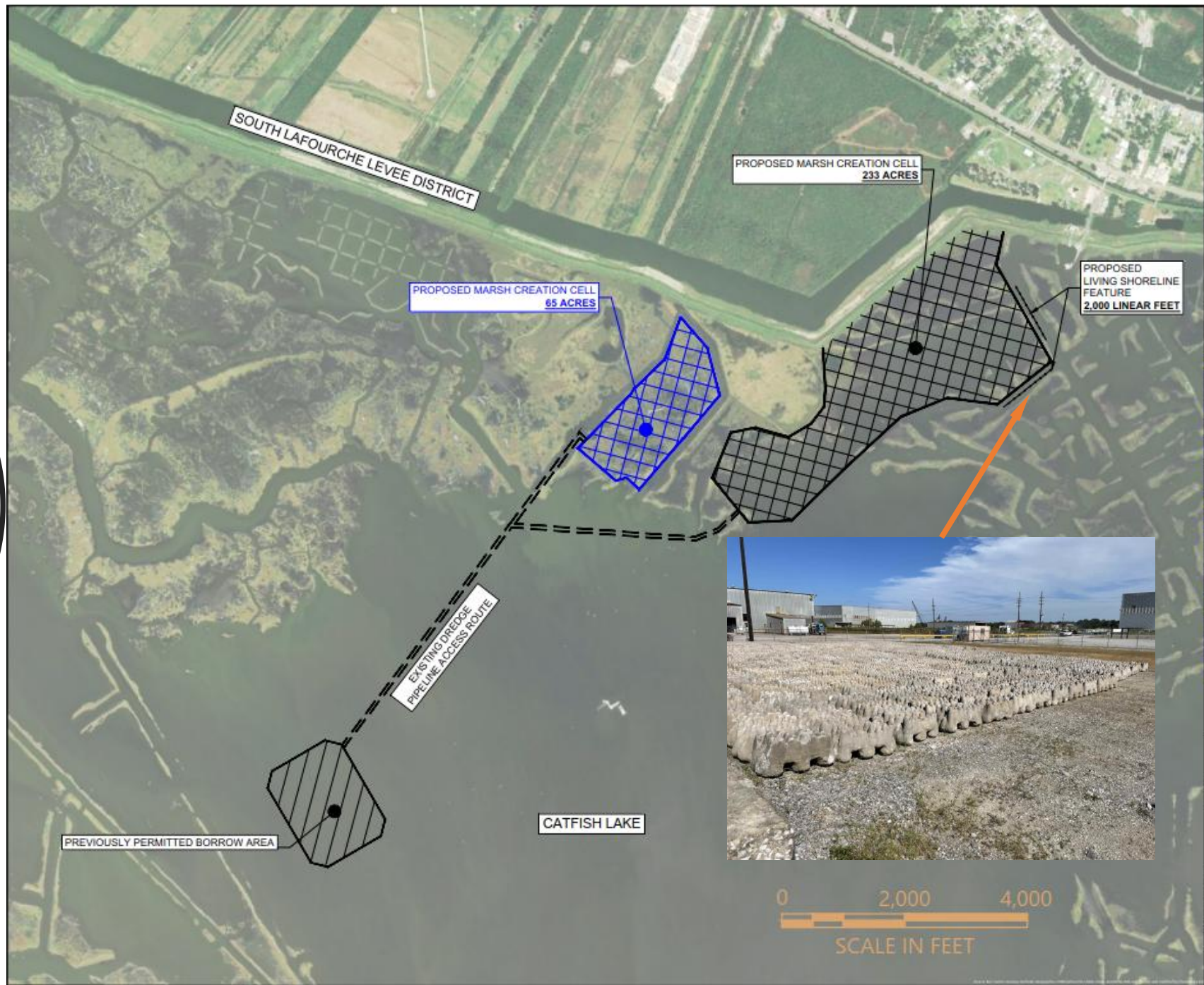
- LL&E Property (Lafourche Parish)
 - 298 acres saline marsh creation
 - Dredge operation
 - Permitting
 - 30% Design
 - Bid 2027 (timing TBD)



GOLDEN MEADOW MC PHII CONCEPTUAL

Quantities

- ±1.5M C.Y. Fill
- 2,000 L.F. Cajun Coral Oyster Modules



PRELIMINARY
 FOR INFORMATIONAL USE ONLY,
 UNDER THE AUTHORITY OF
 BRADLEY J. LAMBERT, P.E. 42312

**GOLDEN MEADOW MARSH CREATION
 INCREMENT II - PROPOSED PLAN**
 LAFOURCHE PARISH, LA.
 PROJECT NUMBER: LA0159043 DATE: 12/12/2025

DUCKS UNLIMITED INC.
 SOUTHERN REGIONAL OFFICE
 193 Business Park Drive, Suite E
 Ridgeland, MS 39157
 SHEET NUMBER
 1 of 2

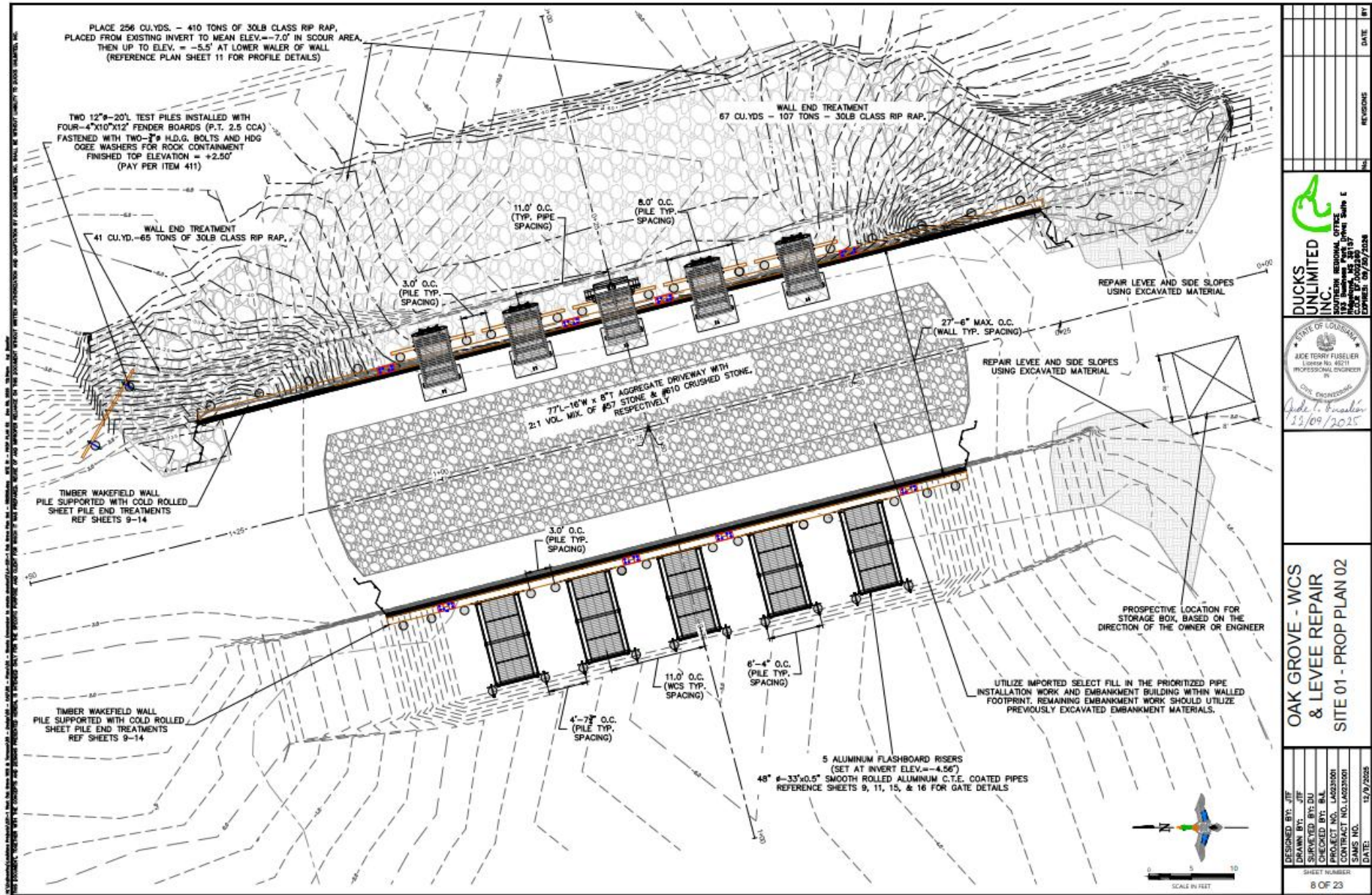
Upcoming DU Projects – Structures/Embankment

- Boyd Allen Structure Replacement
 - Creole, LA (Cameron Parish)
 - Remove and replace existing structure
 - Marine or Land based operation
 - Permitted
 - Full Design
 - Bid Summer 2026– pending funding
 - OPCC - \$1.8M



ITEM	DESCRIPTION	UNITS	PRELIM. QUANTITIES
201	MOBILIZATION	L.S.	1
202	SITE PREPARATION	L.S.	1
203	EXCAVATION - WCS #1	CU.YD.-P	750
204	EMBANKMENT - SITE #2	CU.YD.-P	545
204	EMBANKMENT - ON SITE - WCS #1	CU.YD.-P	750
204	EMBANKMENT - IMPORTED - WCS #1	CU.YD.	300
205	WATER CONTROL	L.S.	1
206	ALUMINUM FLASHBOARD RISER	EA.	5
206	48" DIA. ALUM. FLAP GATE & BREAKOVER BAR	EA.	4
206	48" DIA. ALUM. COMBINATION GATE	EA.	1
206	48" DIA. x 1/2" THK. ROLLED ALUM. PIPE	EA.	5
206	48" DIA. SEALING FLANGE	EA.	10
209	STONE (#610)	TONS	40
209	STONE (#57)	TONS	40
209	ROCK RIP RAP (30 LB CLASS)	TONS	585
410	STEEL SHEET PILING (SKZ-20)	S.F.-P	520
411	TIMBER PILING - 12" DIA	L.F.	2,410
411	TIMBER WALER (4"x10")	L.F.	498
411	TIMBER WALER (6"x10")	L.F.	418
411	TIMBER WALER (10"x10")	L.F.	418
411	TIMBER WAKEFIELD WALL	S.F.-P	4,044

BOYD ALLEN WCS - PLAN



NO.	REVISIONS	DATE	BY

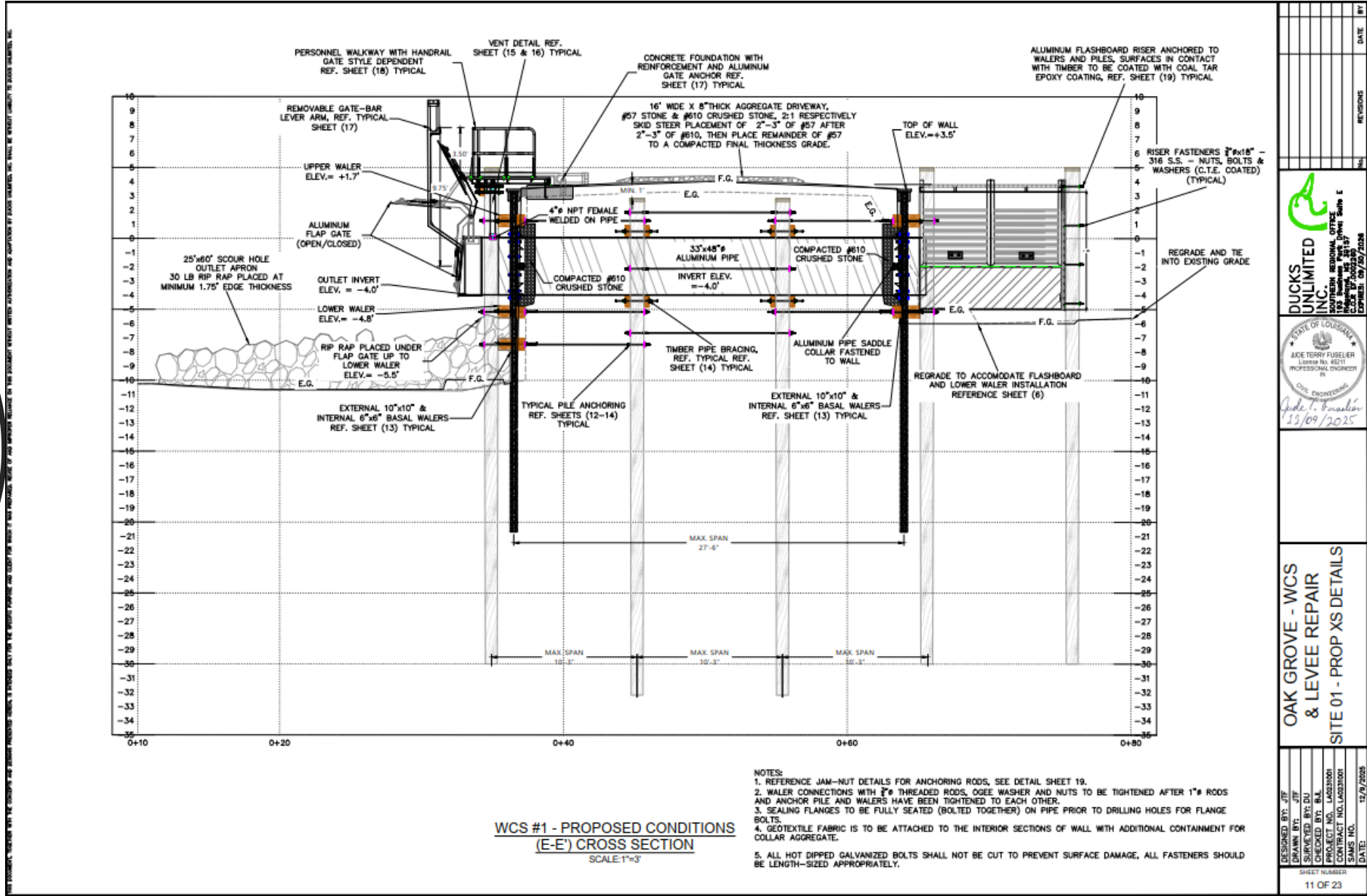
DUCKS UNLIMITED INC.
 SOUTHERN REGIONAL OFFICE
 1855 Sanderson Park Dr., Suite E
 Columbia, SC 29204
 (803) 792-2222
 (803) 792-2223

STATE OF LOUISIANA
 ACE TERRY FUSELER
 LICENSE NO. 48211
 PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 Date: 12/09/2025

OAK GROVE - WCS
 & LEVEE REPAIR
 SITE 01 - PROP PLAN 02

DESIGNED BY: JTF	DATE: 12/7/2025
DRAWN BY: JTF	
SURVEYED BY: BU	
CHECKED BY: BL	
PROJECT NO. JAG231001	
CONTRACT NO. JAG231001	
SAMS NO.	
SHEET NUMBER	8 OF 23

BOYD ALLEN WCS - SECTION



DESIGNED BY: JTE	DATE: 12/17/2025
DRAWN BY: JTE	
SUPERVISED BY: BJL	
CHECKED BY: BJA	
PROJECT NO.: JAG230001	
CONTRACT NO.: JAG230001	
SAMS NO.:	
SHEET NUMBER: 11 OF 23	

DUCKS UNLIMITED INC.
1135 W. 10th Street, Suite 100
Wichita, KS 67203
PH: 316.262.1117
FAX: 316.262.1118
WWW.DUCKSUNLIMITED.COM

STATE OF KANSAS
ADE TERRY FUSELER
License No. 46211
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Date: 12/17/2025

OAK GROVE - WCS & LEVEE REPAIR
SITE 01 - PROP XS DETAILS

Upcoming DU Projects – Structures/Embankment

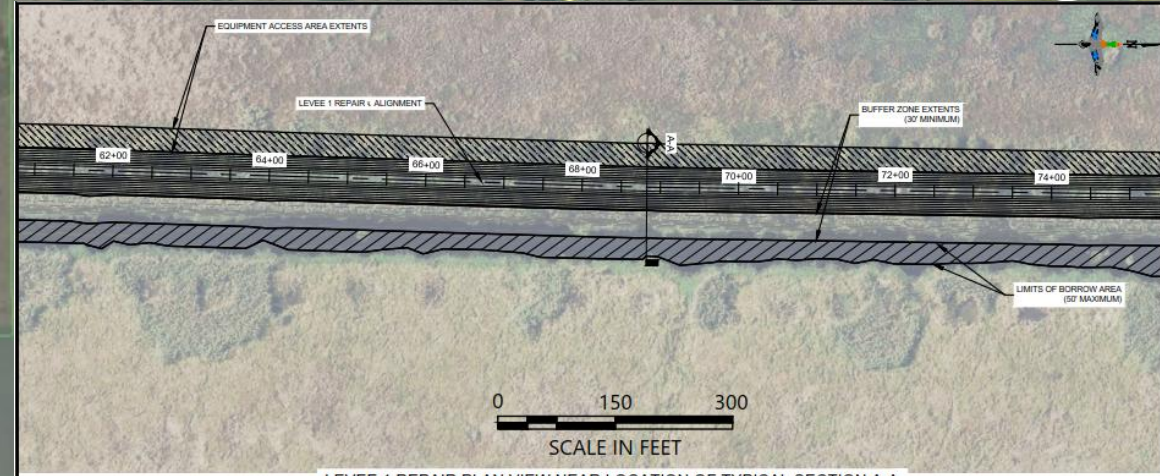
- White Lake WCA – Unit 2 Levee Enhancement
 - White Lake WCA (Vermilion Parish)
 - Clear and recap north portion of the existing levee ±5 miles
 - Marine and Land based operation
 - Permitted
 - 60% Design
 - Bid Summer 2026

- Quantities
 - 37 acres of clearing
 - ± 60,000 C.Y.

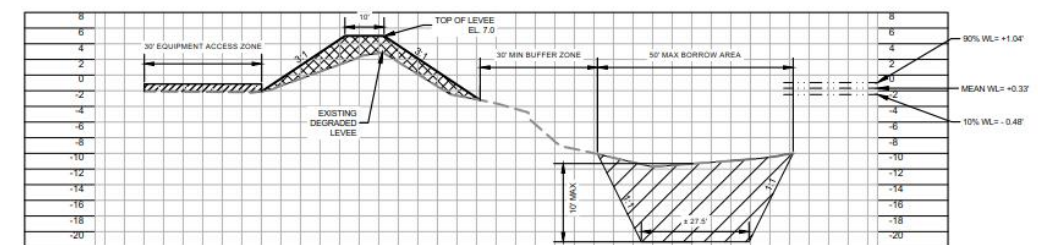


UNIT 2

White Lake



LEVEE 1 REPAIR PLAN VIEW NEAR LOCATION OF TYPICAL SECTION A-A



LEVEE 1 REPAIR TYPICAL SECTION A-A
VERT. SCALE: 1"=15'
HORZ. SCALE: 1"=30'

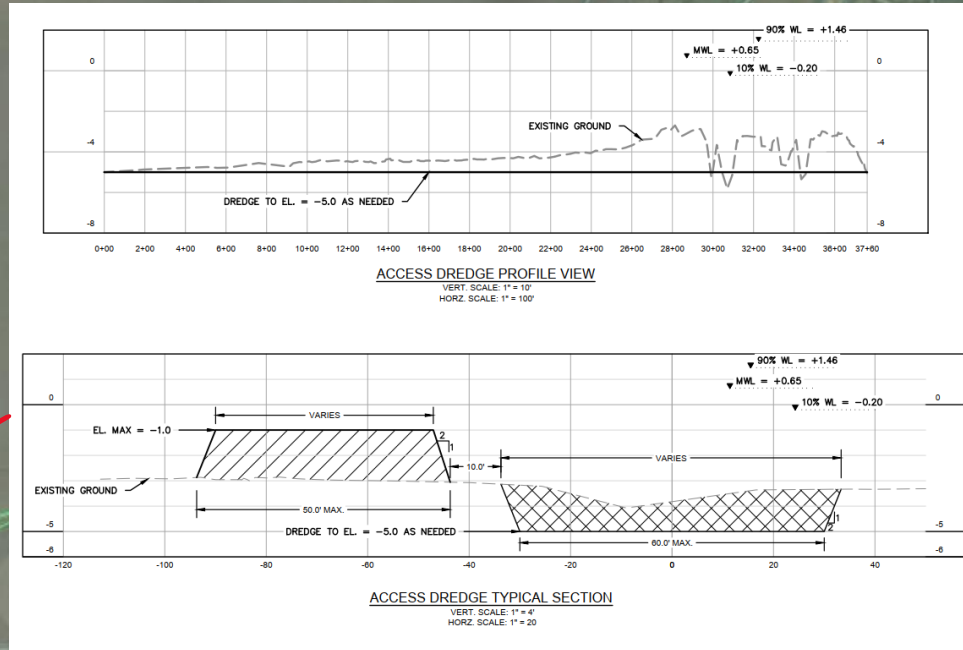
PRELIMINARY
FOR PERMITTING USE ONLY.
UNDER THE AUTHORITY OF
BRADLEY J. LAMBERT P.E. 42312

PROJECT NUMBER: LA-152-5
WHITE LAKE WCA UNIT 2 LEVEE
LEVEE 1 REPAIR PLAN VIEW & TYPICAL SECTION A-A

DUCKS
UNLIMITED
INC.
SHEET NUMBER
C5

Upcoming DU Projects – Structures/Embankment

- Hog Bayou Weir Replacement
 - State Wildlife Refuge (Vermilion Parish)
 - Remove and replace existing structure
 - Marine based operation
 - Permitted
 - 30% Design
 - **Bid Fall of 2026**



State Wildlife Refuge

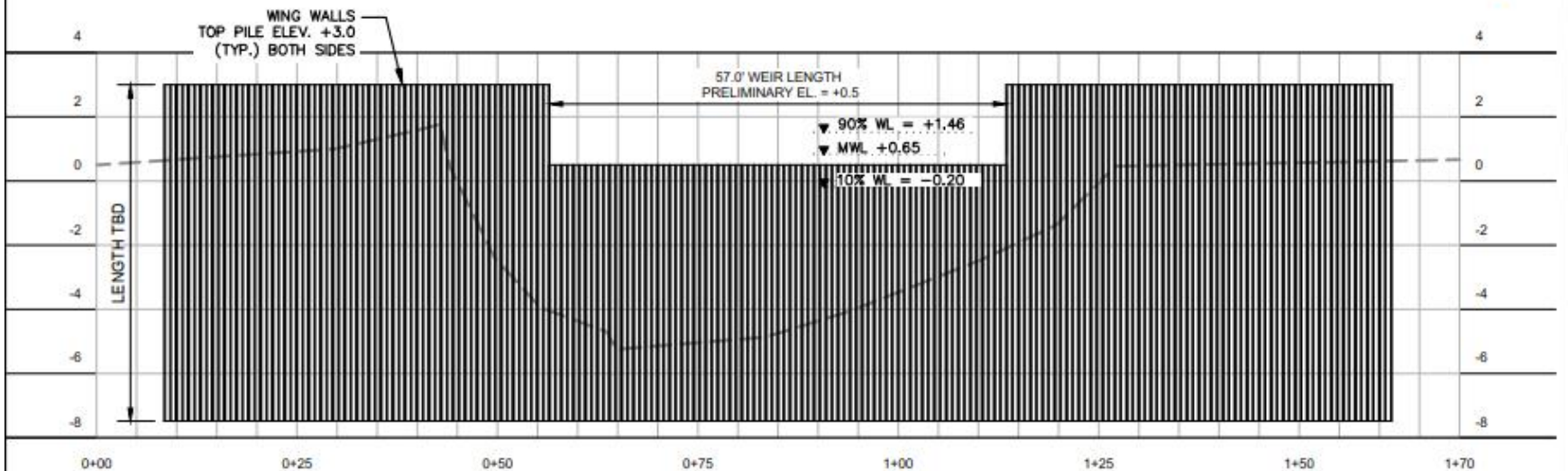
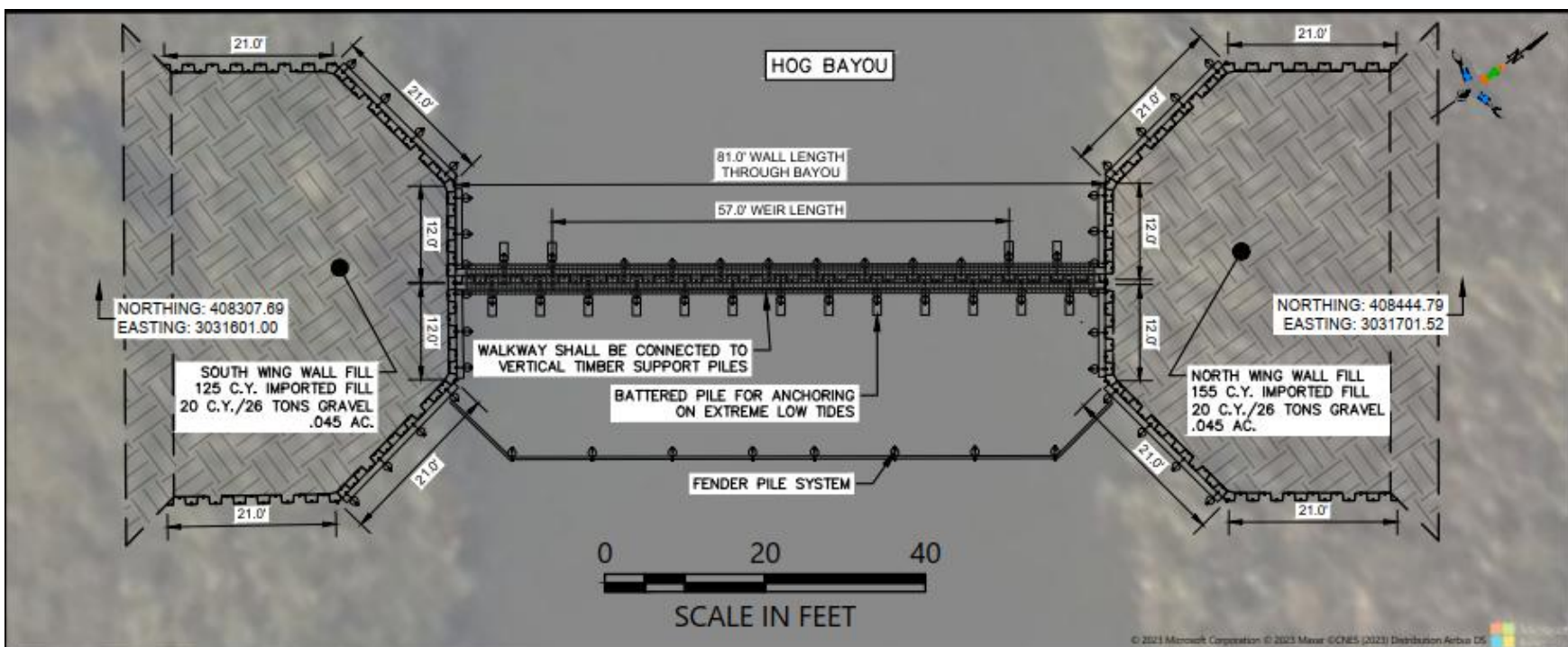
Marsh Island



HOG BAYOU WEIR CONCEPTUAL

Quantities

- 3,045 L.F. Timber Piles
- 8,715 S.F. Sheet Pile
- 280 C.Y. Embankment



TOTAL QUANTITIES:

EXCAVATION: NO EXCAVATION
 EMBANKMENT IMPORTED FILL: 280 C.Y. / .045 AC.
 GRAVEL FILL: 40 C.Y. / 52 TONS / ON TOP OF EMBANKMENT
 SHEET PILE LENGTH: 249 L.F.

WCS 1 PROFILE VIEW

VERT. SCALE: 1" = 5'
 HORZ. SCALE: 1" = 20'

NOTES:

1. WATER LEVEL DETERMINED FROM CRMS #0535-H01 2024.
2. ELEVATIONS REFERENCED TO NAVD88 GEOID 12B.
3. FIXED CREST WEIR FINAL ELEVATION TBD IN FINAL DESIGN AND SHALL NOT BE SET HIGHER THAN 6" BELOW AVERAGE MARSH ELEVATION.

PROJECT NUMBER: LA-251-1

HOG BAYOU WEIR
WEIR PLAN & PROFILE

DATE: 3/21/2025

DUCKS UNLIMITED INC.
 SOUTHERN REGIONAL OFFICE
 193 Business Park Drive, Suite E
 Ridgeland, MS 39157

SHEET NUMBER

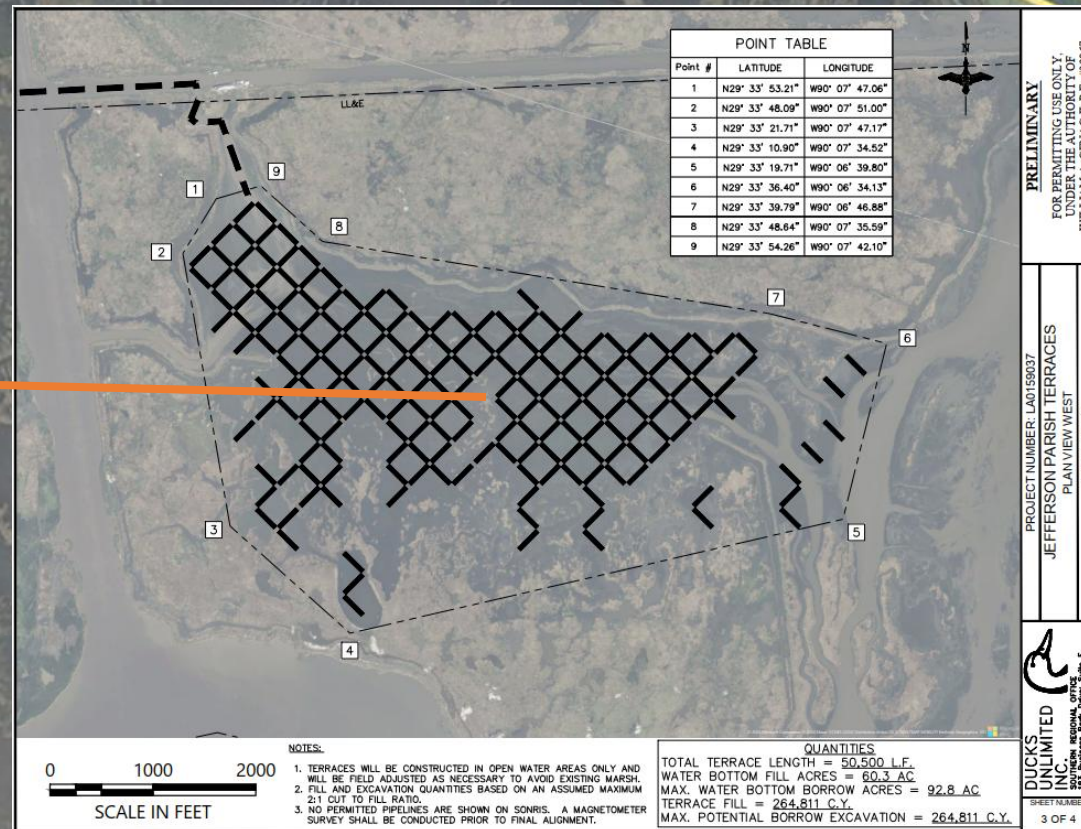
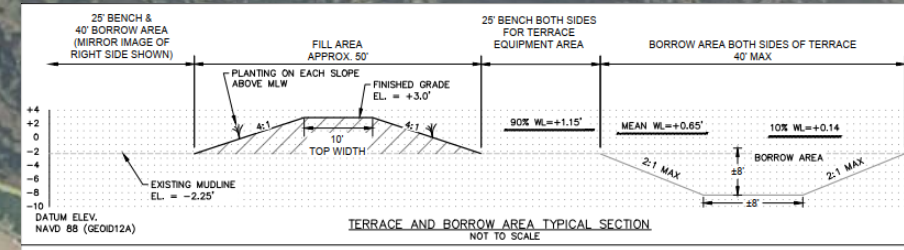
4 of 4

PRELIMINARY

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 BRADLEY J. LAMBERT PE #12312

Upcoming DU Projects – Terraces

- NE Little Lake Terraces
 - LL&E Property (Jefferson Parish)
 - 50,500 L.F. of terraces permitted
 - Amphibious excavator operation
 - Permitted
 - 30% Design
 - Bid Fall of 2026



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.”

Questions?



Brad Lambert

Ducks Unlimited

Manager of Engineering Services

Lafayette, LA

blambert@ducks.org

To get added to Ducks Unlimited’s Bidders List:
Contact Amy Breithaupt, abreithaupt@ducks.org

To view and bid on Ducks Unlimited projects:
Upcoming Announcement for PM Web integration

JP Bucktown Dock Project for Jefferson Parish



Meeting Agenda



Introduction



Permitting

Existing Conditions



Project Costs

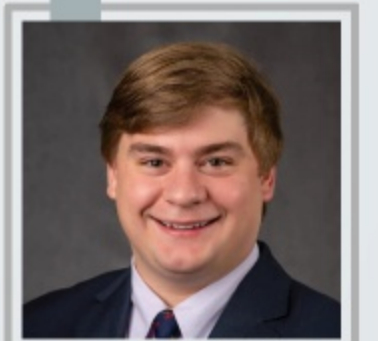


Proposed Plan



Community Impact

Presenter



Christopher Mills

JP Bucktown Dock

This project focuses on the Bucktown Harbor improvement for Jefferson Parish, adding a dedicated transient dock and off-loading area adjacent to Coast Guard Road. It supports boating access and waterfront use, with a bid-ready design package completed in February 2026, funded through the CDBG-DR / RCIP program.



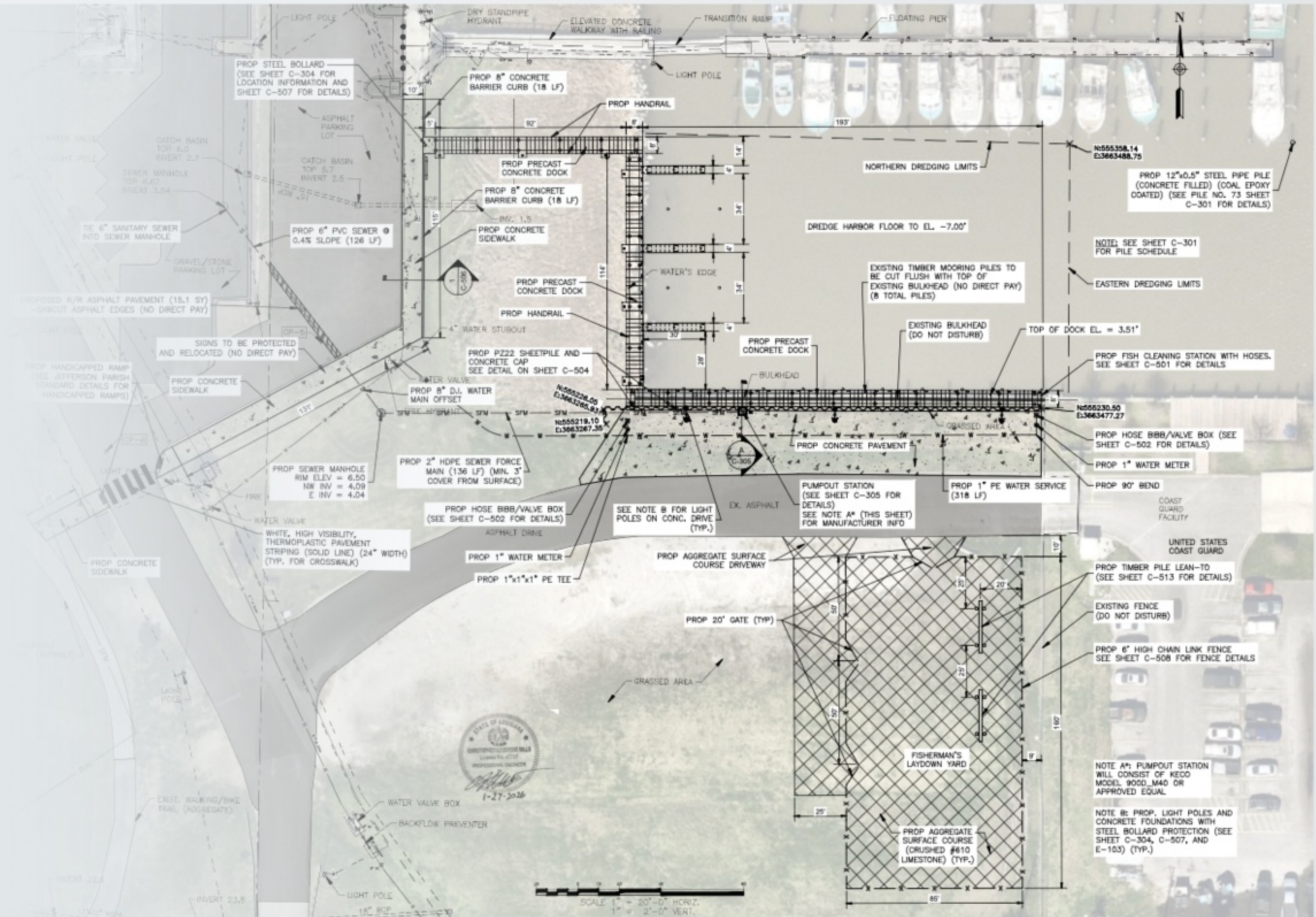
Before / Existing Conditions

Currently, the Jefferson Parish lakefront lacks dedicated transient docking. Existing slip users face rising water levels, and the site relies on sheet flow drainage. Key constraints include the existing roadway, parking, bulkhead, and riprap, highlighting a need identified in the Bucktown Harbor vision plan.



Proposed Plan

The proposed plan includes a new concrete transient boat dock with a Z-shaped layout, providing ADA access and a storage laydown yard. Features include a boat pump-out connected to the existing sewer, vinyl sheet pile with a concrete cap for shoreline improvements, and minimal dredging. Supporting site work covers paving, utilities, lighting, grading, and boardwalk elements.



Permitting



U.S. Army Corps authorization under Category II Programmatic General Permit



Coastal Use Permit secured through Louisiana Office of Coastal Management



Levee Safety Permit obtained from SLFPA-E / East Jefferson Levee District



Blanket water quality certification noted by USACE for the project



Construction must comply with permit conditions and approved plans



Environmental compliance includes in-water work conditions and discovery protocols

Project Costs

Engineer's Opinion of Probable Construction Cost

Project Costs

Engineer's Opinion of Probable Construction Cost

\$2,189,125

Engineer's Opinion
of Probable
Construction Cost

Project Costs

Engineer's Opinion of Probable Construction Cost

\$2,189,125

Engineer's Opinion
of Probable
Construction Cost

\$2,084,881

Construction
Cost Subtotal

Project Costs

Engineer's Opinion of Probable Construction Cost

\$2,189,125

Engineer's Opinion
of Probable
Construction Cost

\$2,084,881

Construction
Cost Subtotal

5%

Contingency
(\$104,244)

Project Costs

Engineer's Opinion of Probable Construction Cost

\$2,189,125

Engineer's Opinion
of Probable
Construction Cost

\$2,084,881

Construction
Cost Subtotal

5%

Contingency
(\$104,244)

\$405,000

Pre-cast concrete
boardwalk
system

Project Costs

Engineer's Opinion of Probable Construction Cost

\$2,189,125

Engineer's Opinion
of Probable
Construction Cost

\$2,084,881

Construction
Cost Subtotal

5%

Contingency
(\$104,244)

\$405,000

Pre-cast concrete
boardwalk
system

\$302,500

Sheet pile costs

Community Impact

This project creates the first dedicated transient docking opportunity, strengthening Bucktown Harbor as a gateway to local amenities. It improves functionality for existing users with a dedicated storage area, expands public access through ADA-friendly connections, and adds pump-out capability. The project also improves drainage and reduces erosion with minimal hydrologic impact on adjacent properties.



JP Bucktown Dock Project for Jefferson Parish



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The Coalition to Restore Coastal Louisiana

Our mission: To unite people in action to achieve a thriving, sustainable Louisiana coast for all



Oyster Shells Only



Oysters Yes

CRCL OYSTER SHELL RECYCLING PROGRAM

Oyster Shells Only



Oysters Yes

CRCL OYSTER SHELL RECYCLING PROGRAM

Oyster shell recycling





Oyster reef restoration

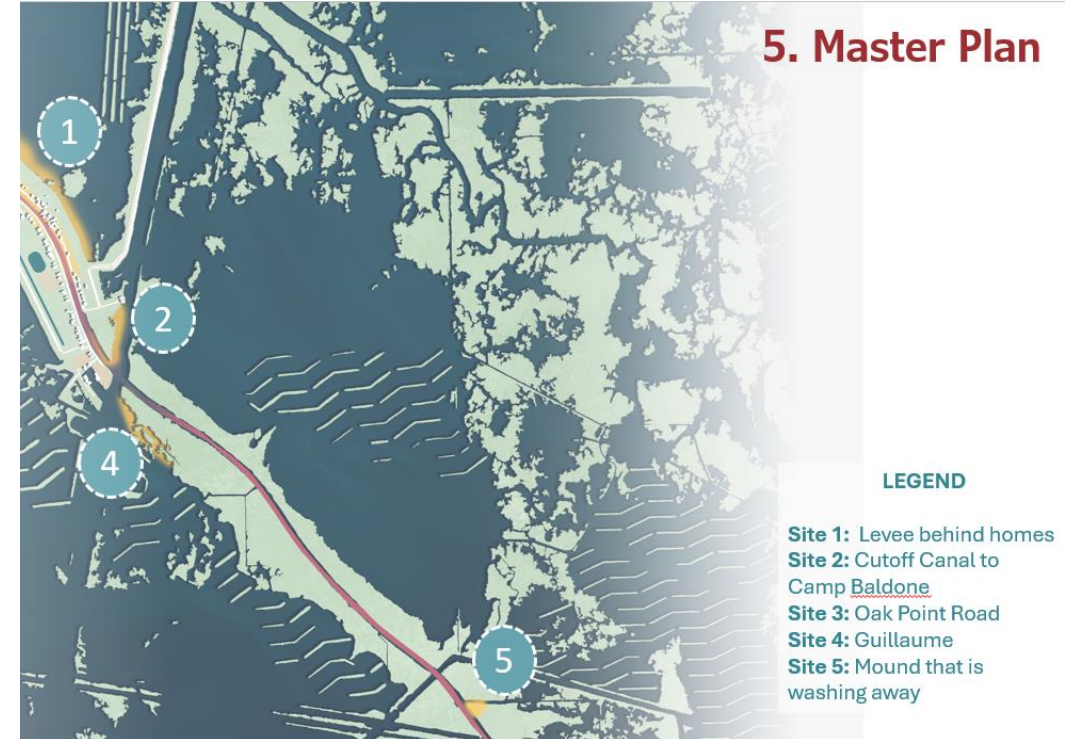




Planting native species across the coast



Pointe-au-Chien Living Shorelines Network



Location: Point aux Chenes, Terrebonne Parish, LA

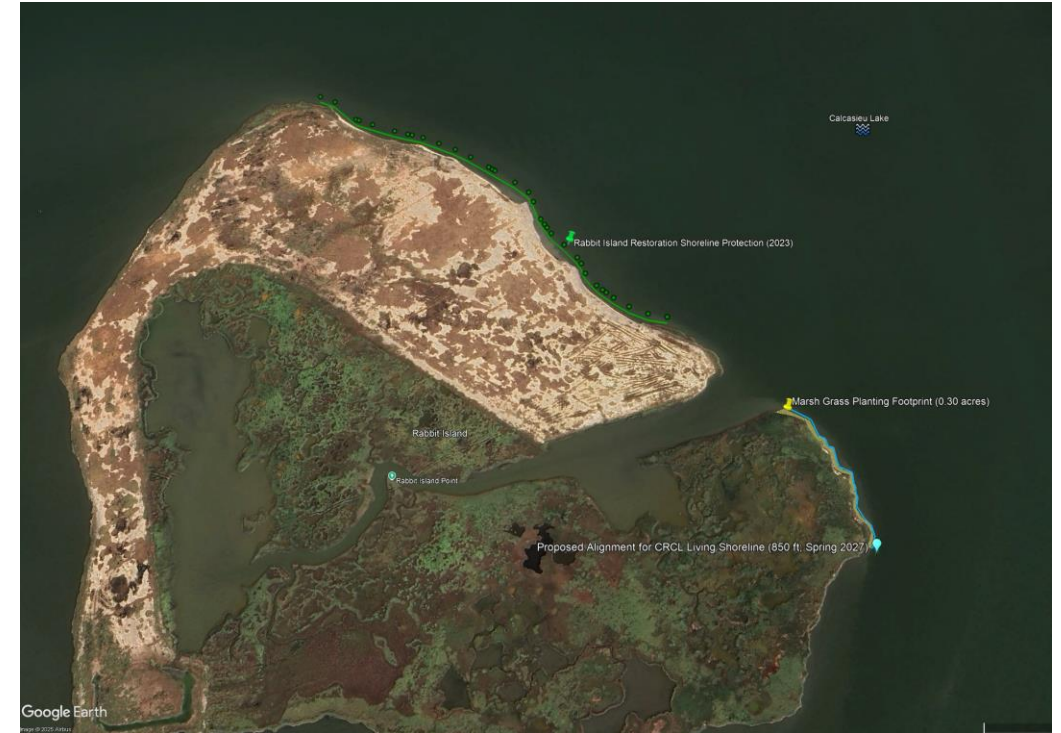
Project Specs: 5 living shorelines 500-2000 lf, varied materials including recycled oyster shells, reef balls, etc.

Scope: Final Design Consulting, Surveys, Permit Agent Services for 5 Sites

Timeline: Environmental Consulting Contract by May, Permits by Dec 2026



Rabbit Island Living Shoreline



Location: Rabbit Island, Calcasieu Lake, Cameron Parish, LA

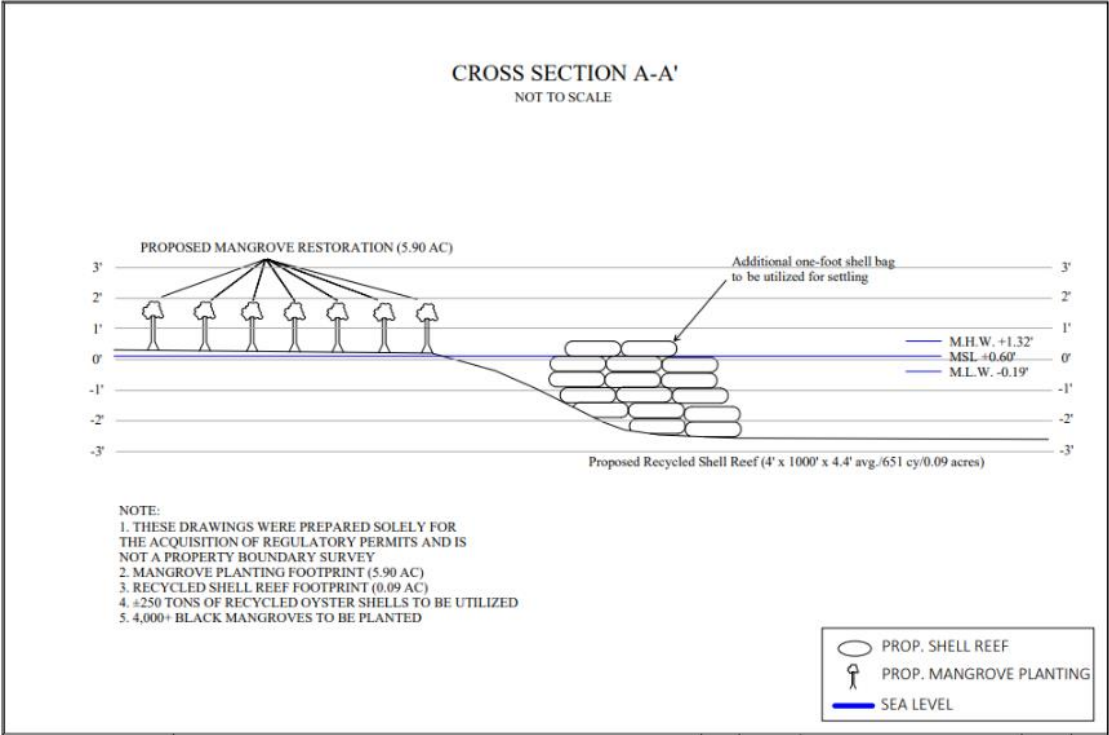
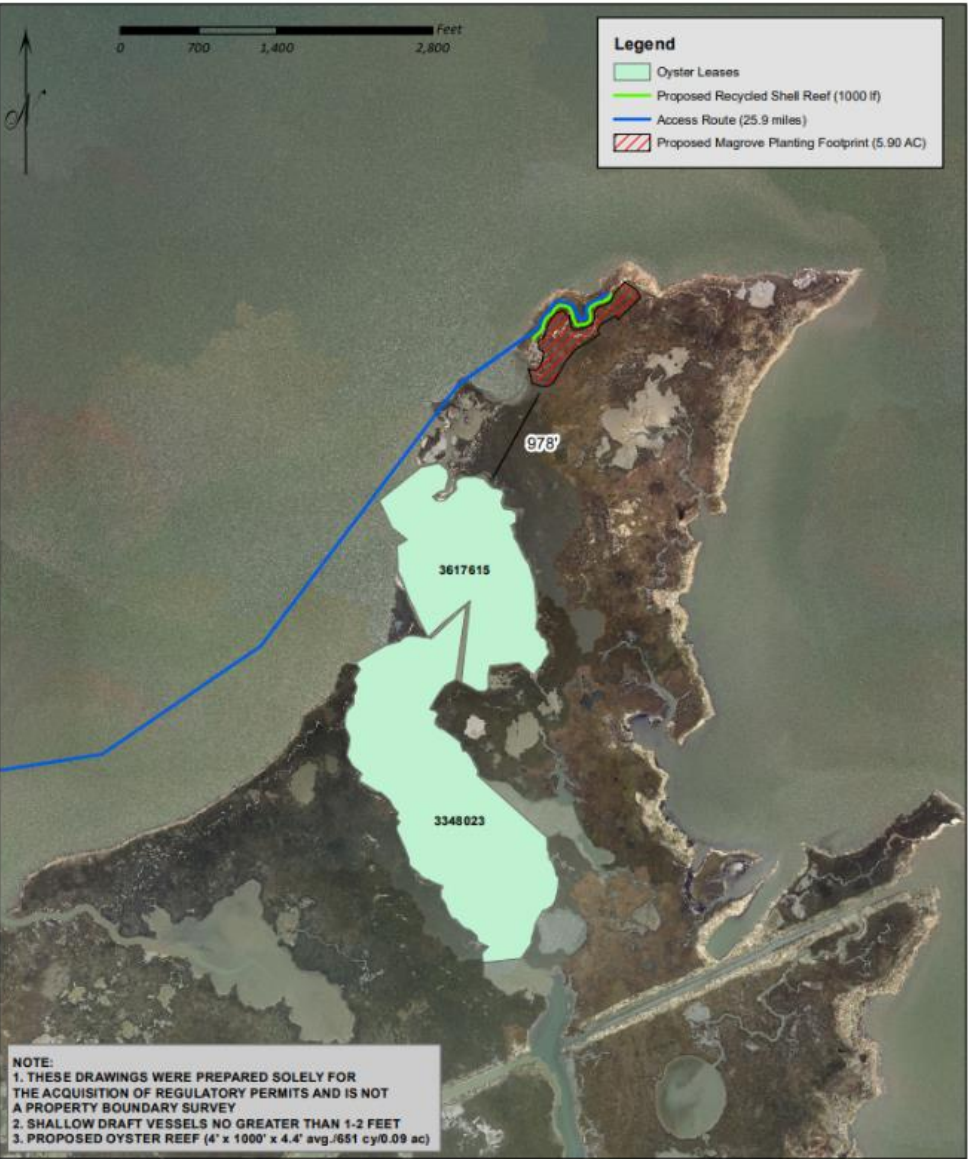
Project Specs: 850 lf, 200 tons recycled oyster shell, 7,500 plugs of smooth cordgrass

Scope: Survey, Permit Agent Services

Timeline: Environmental Consulting Contract by May, Construction Fall 2027



Example Design / Plats





Example In-Progress Living Shoreline



Sign up to receive price quote solicitations:

<https://tinyurl.com/CRCLEnvConsultNotify>



Darrah Fox Bach
Darrah.bach@crcl.org

