# ADDENDUM 1 TO BID DOCUMENTS FOR THE

# CAMERON CREOLE MAINTENANCE PROJECT
# STORM DAMAGE REPAIRS
# (CS-04-a)

# CAMERON PARISH, LOUISIANA

**STATE OF LOUISIANA**
**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**May 2, 2023**

# ADDENDUM 1 TO BID DOCUMENTS
# CAMERON CREOLE MAINTENANCE PROJECT
# STORM DAMAGE REPAIRS
# (CS-04-a)

The interpretations, corrections, or changes in this addendum supersede the requirements in the Bid Documents dated April 2023 and stamped and sealed by the Engineer of Record on April 3, 2023.

**Bidders shall acknowledge receipt of this addendum in the Louisiana Public Work Bid Form.**

I. Other:

**See Attachment A for a copy of the Pre-Bid Meeting Sign-in Sheets.**

II. Other:

**See Attachment B for a copy of the Pre-Bid Meeting PowerPoint presentation.**

III. Questions and Responses:

1. What is the Engineer's Estimate of Probable Construction Cost for this project?

   ***The Engineer's Estimate of Probable Construction Cost for the Cameron Creole Maintenance Project (CS-04-a) – Storm Damage Repairs is $3,334,352.67.00.***

2. Can you please verify the coordinates for the Grand Bayou Water Control Structure? They plot up approximately 86' from the Mangrove Bayou Water Control Structure.

   ***After review of the project feature location coordinates, provided in the Plans on Sheet 4, the coordinates listed for the Grand Bayou Water Control Structure were verified as the correct coordinates for this structure. Furthermore, it was discovered that the coordinates listed for the Mangrove Bayou Water Control Structure were incorrect. A Modification to the Plans has been implemented to address this mistake. (SEE BELOW: SECTION IV. CHANGES TO PLANS, MODIFICATION No. 1)***

IV. Changes to Plans:

1. **Modification:** ***See Attachment C for the revised Sheet 4 of the Plans, containing the seal and stamp of the Engineer of Record, dated May 2, 2023.***

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**ATTACHMENT A**

| | |
|---|---|
| **Project Name:** | **CAMERON CREOLE MAINTENANCE PROJECT – STORM DAMAGE REPAIRS (CS-004-A)** |
| **Date:** | **May 02, 2023** |
| **Time:** | **10:00 am** |
| **Location:** | **635 Cajundome Boulevard, Abdalla Hall Auditorium (Room 102), Lafayette, LA 70506** |

# MANDATORY PRE-BID CONFERENCE ATTENDANCE RECORD

Project Name: CAMERON CREOLE MAINTENANCE PROJECT – STORM DAMAGE REPAIRS (CS-004-A)
Date/Time: May 02, 2023/10:00 am
Location: 635 Cajundome Boulevard, Abdalla Hall Auditorium (Room 102), Lafayette, LA 70506

Project Engineer: Beau Tate, P.E. (Royal Engineers)
Construction Manager: Dion Broussard, P.E. (CPRA)
Resident Project Rep.: Royal Engineers & Consultants

| | Name (Print) | Name (Signature) | Initial (In) | Initial (Out) | Company Name | Company Address | Phone/E-mail | Affiliation (Circle one) |
|---|---|---|---|---|---|---|---|---|
| 1. | Dion Broussard | Dion Broussard | DB | DB | CPRA - LRO | 635 Cajundome Blvd. | 337-482-0686 dion.broussard@la.gov | Prime/Sub |
| 2. | Beau Tate | [illegible] | BT | BT | Royal | 1231 Camellia blvd. | 3372074483 btate@royalengineering.net | Prime/Sub |
| 3. | Brennon Bourgeois | Brennon B. | B.B. | B.B. | Royal | 1231 Camellia Blvd | (337) 224-4006 | Prime/Sub |
| 4. | MIKE NITSKA | [illegible] | MN | [illegible] | HYDROTERRA TECH | 212 JACOBS RD SCOTT LA | 337-315-2190 MIKE.NITSKA@HYDROTERRATEC.COM | Prime/Sub |
| 5. | Perry Autin | [illegible] | [illegible] | [illegible] | Marsh Bussies Inc | 2018 Engineers Rd Belle chasse LA 70037 | 504-450-0157 Perry@MarshBussies.com | Prime/Sub |
| 6. | Gilbert Hooker | [illegible] | G.H. | GH | Cayo, LLC | 1400 Everman Pkwy Fort Worth, TX 76014 | GHooker@Cayo.us 817-568-6823 | Prime/Sub |
| 7. | Emily Lawson | [illegible] | E.L. | E.L. | Rigid Constructors | 3801 Ambassador Caffery Pkwy, Suite 175 Lafayette, LA 70503 | 337-514-3100 elawson@rigidconstructors.com | Prime/Sub |
| 8. | Russell Skelly | [illegible] | RS | DS | BBI | 501 S. main Street Abbeville LA 70510 | 337-523-4400 russells@broussardbrothers.com | Prime/Sub |

**Project Name:** CAMERON CREOLE MAINTENANCE PROJECT – STORM DAMAGE REPAIRS (CS-004-A)
**Date:** May 02, 2023
**Time:** 10:00 am
**Location:** 635 Cajundome Boulevard, Abdalla Hall Auditorium (Room 102), Lafayette, LA 70506

# MANDATORY PRE-BID CONFERENCE ATTENDANCE RECORD

Project Name: CAMERON CREOLE MAINTENANCE PROJECT – STORM DAMAGE REPAIRS (CS-004-A)
Date/Time: May 02, 2023/10:00 am
Location: 635 Cajundome Boulevard, Abdalla Hall Auditorium (Room 102), Lafayette, LA 70506

Project Engineer: Beau Tate, P.E. (Royal Engineers)
Construction Manager: Dion Broussard, P.E. (CPRA)
Resident Project Rep.: Royal Engineers & Consultants

| | Name (Print) | Name (Signature) | Initial (In) | Initial (Out) | Company Name | Company Address | Phone/E-mail | Affiliation (Circle one) |
|---|---|---|---|---|---|---|---|---|
| 9. | Louis Mathews | | | | Broussard Brothers | 501 S Main Abbeville | 337-316-8205 louism@broussardbrothers.com | Prime/Sub |
| 10. | Ricky L. Thibodeaux | | | | Berry Bros. General Contractors | 1414 River Rd Berwick, La 70342 | (985) 637-8776 ricky@bbgcc.com | Prime/Sub |
| 11. | Hunter Serette | | | | Southern Constructors, LLC. | 6313 Hwy 90 E New Iberia, La 70560 | 337-339-7749 hunter@southernconstructorsllc.com | Prime/Sub |
| 12. | NATHAN DONDIS | | | | BJ, INC. | 967 PO BOX Lake Arthur, LA 70549 | Nathandondis@BJmarineservices.com | Prime/Sub |
| 13. | Jody White | | | | CPRA - LRO | 635 Cajundome Blvd Lafayette, LA 70506 | 337-482-0664 jody.white@la.gov | N/A Prime/Sub |
| 14. | Phillip Parker | | | | CPRA - LRO | " | 337-482-0682 phillip.parker@la.gov | N/A Prime/Sub |
| 15. | MEL GUIDRY | | | | CPR- LRO | " | 337-482-0682 MELVIN.GUIDRY@LA.GOV | Prime/Sub |
| 16. | JERRY CARROLL | | | | CPRA-LRO | " | 337-482-0680 jerry.carroll@la.gov | Prime/Sub |

**ATTACHMENT B**

# Cameron Creole Maintenance Project
# Storm Damage Repairs
# CS-04a

## <u>Mandatory Pre-Bid Conference</u>
## May 2, 2023

CPRA Lafayette Regional Office

635 Cajundome Boulevard
Abdalla Hall Auditorium (Room 102)
Lafayette, LA 70506

committed to **our coast**

# PLEASE SIGN IN

Bids shall be accepted only from those bidders who:

- attend the Mandatory Pre-Bid Conference in its entirety
- are contractors licensed under LA. R.S. 37:2150-2192 for the classification of **Heavy Construction** and/or Specialty Classification: **Coastal Restoration and Habitat Enhancement**.

## Project Team

- CPRA Construction Manager: Dion Broussard, P.E.

- Project Manager/Design Engineer: Beau Tate, P.E
- Resident Project Representative: Royal Engineers & Consultants

# Bid Documents and Addenda

- Complete Bid Documents for this project are available in electronic form. They may be obtained without charge and without deposit from http://coastal.la.gov/resources/rfps-rsiqs-contracts/bids/.

- Printed copies can also be obtained from:
  - Coastal Protection And Restoration Authority (CPRA)
    150 Terrace Avenue, Baton Rouge, LA 70802
    Attn: Sharissa Felder
    E-mail: cpra.bidding@la.gov
    Phone: (225) 342-7310 Fax: (225) 800-5599

# Bid Submission

- Bids will be received for the State of Louisiana by the CPRA, **150 Terrace Avenue, 4th Floor Conference Center, Baton Rouge, Louisiana 70802** until **2 P.M., Wednesday, May 17, 2023**

- Bids can be delivered in person or via United States Mail or express delivery as long as they are **received** no later than **2:00 P.M.**, on **Wednesday, May 17, 2023.**
  - If bidder chooses to hand deliver a bid the day of the opening, it is the bidder's responsibility to arrive with ample time to check in, go through security clearance, and travel to the fourth floor to submit the bid prior to 2:00 P.M.
  - BID SUBMISSION WILL NOT BE ACCEPTED AFTER 2:00 P.M.

- The Bid shall be sealed in an opaque envelope

- The bid envelope shall be identified on the outside with:
  - The name of the project
  - The name, address, and license number of the Bidder

- The envelope shall not contain multiple bid forms

# Bid Form

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

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

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

- **BID SECURITY** in the amount of five percent of the base bid and all alternatives. The bid security shall be in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218(A) is attached to and made a part of this bid.

- Bidder is to acknowledge receipt of all addenda on the bid form.

# Bid Questions

- Questions regarding the bid are due by **COB May 10, 2023**, 7 days prior to the date for receipt of bids.
- Questions regarding the bid must be submitted in writing (Via Email) to Sharissa Felder (cpra.bidding@la.gov)
- Final CPRA addenda, if any, to be posted by **COB May 12, 2023**, 5 days prior to the date for receipt of bids.
- All verbal responses given at this conference are nonbinding.

# Bid Opening

- ANY PERSON REQUIRING SPECIAL ACCOMMODATIONS SHALL NOTIFY THE COASTAL PROTECTION AND RESTORATION AUTHORITY OF THE TYPE(S) OF ACCOMMODATION REQUIRED NOT LESS THAN SEVEN (7) DAYS BEFORE THE BID OPENING.

# Contract Time

- The contract time shall be **152** consecutive calendar days.

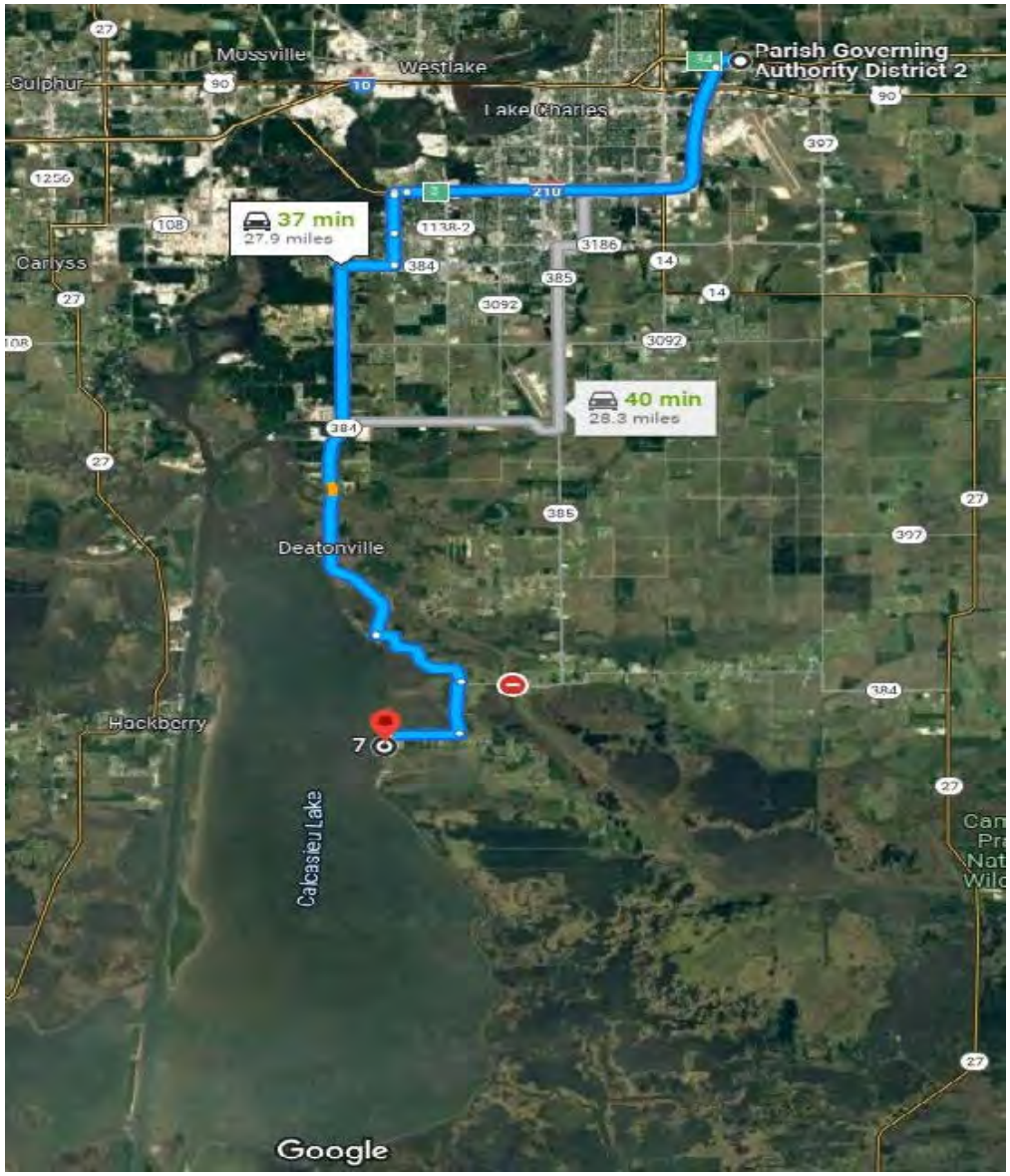
# Liquidated Damages

- For each day in excess of the approved contract days that the Work remains incomplete, the sum of three thousand dollars **($3,000)** per calendar day will be assessed by Owner and will be deducted from any money due to Contractor as Liquidated Damages.

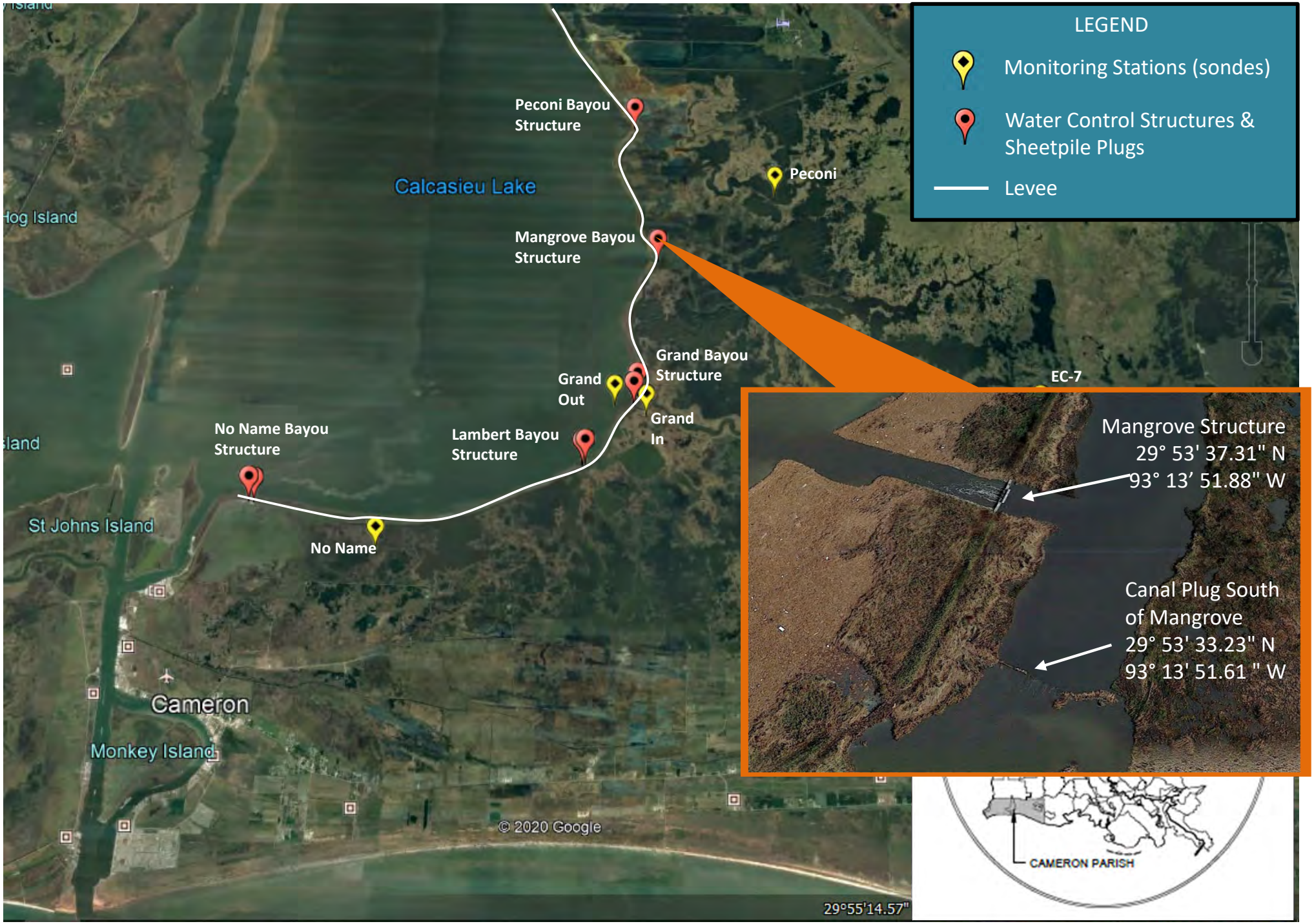
# Bidder's Responsibility to Visit the Site

*It is the responsibility of all potential bidders to visit the job site to assess the location, logistics, and site conditions prior to bidding!*

- Contractors shall utilize public access methods.
- Contractors are required to remain in their boats while they are within the project area.
- Access during the jobsite visit will be limited to open water areas only and land access is strictly prohibited.
- Hebert's Marina is listed as a nearby public boat launch for this project. **SEE PROJECT SPECIFICATIONS, APPENDIX E** for a map with directions.
- Contractors are responsible for providing their own boat and any rental and boat launching fees.



# CS-04a Cameron-Creole Maintenance Project – Storm Damage Repairs



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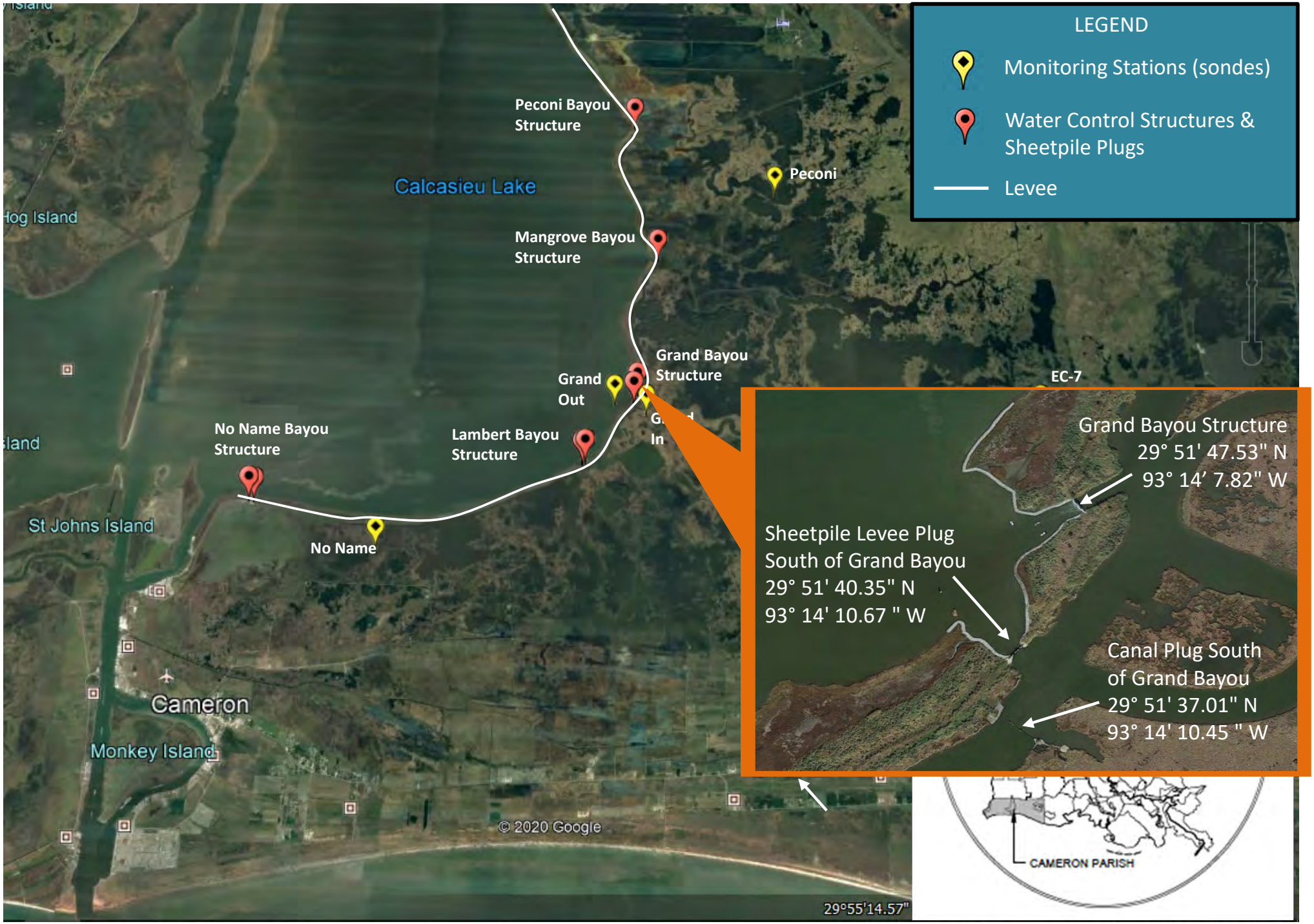

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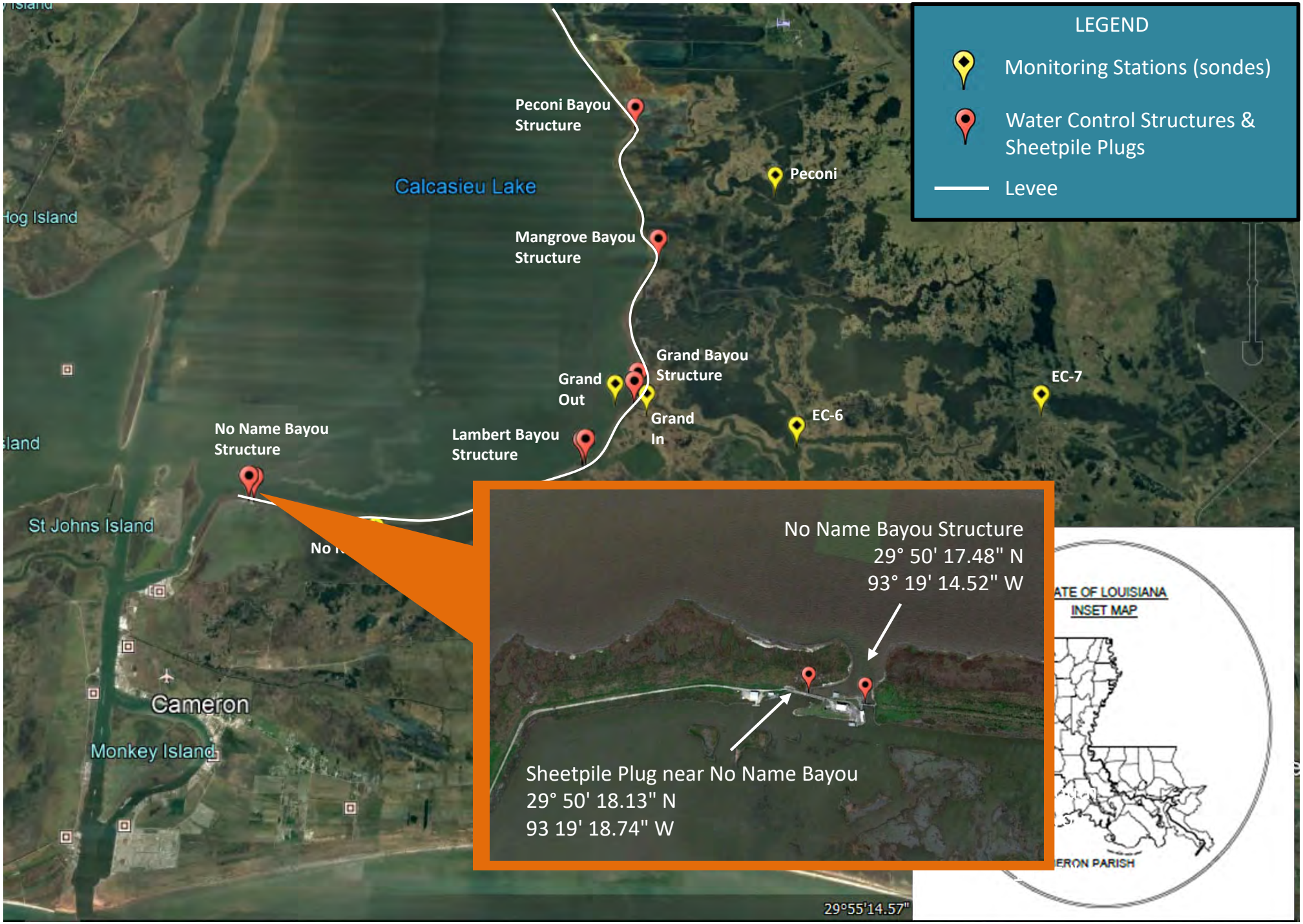


# CS-04a: Pre-Storm Images - Water Control Structures (WCS)

# CS-04a: Pre-Storm Images - Interior Canal Plugs

# CS-04a: Pre-Storm Images - Levee Breach Repairs

# CS-04a Cameron-Creole Maintenance Project – Storm Damage Repairs

## Project Overview - Hurricane Laura Storm Damage Repairs

- **Problems:** Several of the watershed's features incurred significant damages during Hurricane Laura (August 2020).
  - Full connectivity between the watershed and Lake Calcasieu
  - Hydrologic management is impossible
  - Current conditions are promoting rapid deterioration of the ecosystem

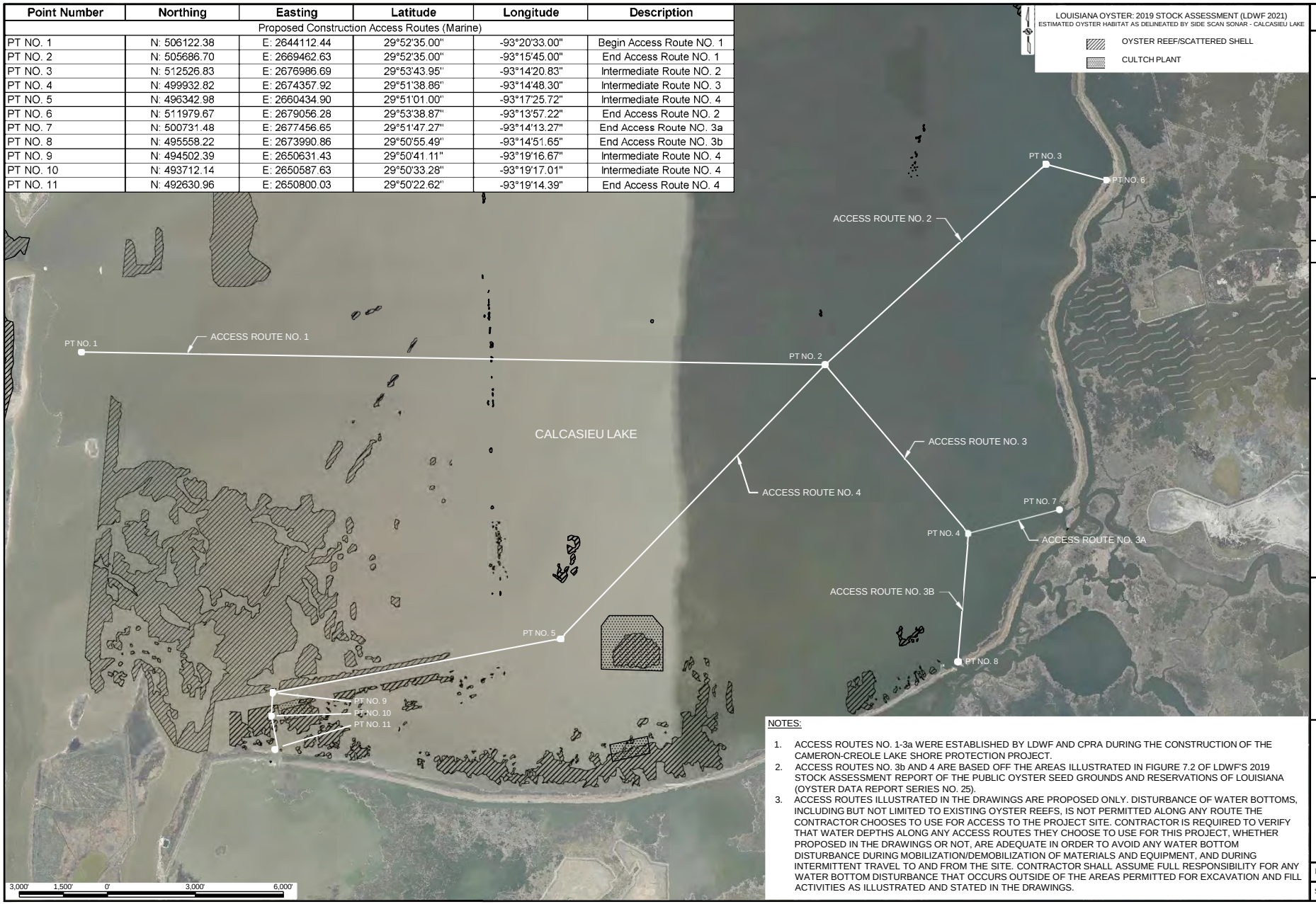
- **Objectives:** Close off the currently open watershed system to Lake Calcasieu and regain the ability to regulate surface water and interstitial salinities within the watershed.
  - Excavation and Removal of Siltation and Debris
  - Scour Repairs
  - Extension of Levee Breach Structures
  - Mechanical Repairs to Water Control Structures

- **Goals:** Reclaim emergent marshes that were converted to open water as a result of increased surface water and saltwater intrusion.
  - Increase growth of desirable vegetation/plants
  - Increase land acreage

**----- THE PROJECT IS FUNDED THROUGH FEMA REIMBURSEMENT -----**

# Project (CS-04a) Storm Damage Repairs – MOB/DEMOB & SURVEYS

| Point Number | Northing | Easting | Latitude | Longitude | Description |
|---|---|---|---|---|---|
| Proposed Construction Access Routes (Marine) | | | | | |
| PT NO. 1 | N: 506122.38 | E: 2644112.44 | 29°52'35.00" | -93°20'33.00" | Begin Access Route NO. 1 |
| PT NO. 2 | N: 505686.70 | E: 2669462.63 | 29°52'35.00" | -93°15'45.00" | End Access Route NO. 1 |
| PT NO. 3 | N: 512526.83 | E: 2676986.69 | 29°53'43.95" | -93°14'20.83" | Intermediate Route NO. 2 |
| PT NO. 4 | N: 499932.82 | E: 2674357.92 | 29°51'38.86" | -93°14'48.30" | Intermediate Route NO. 3 |
| PT NO. 5 | N: 496342.98 | E: 2660434.90 | 29°51'01.00" | -93°17'25.72" | Intermediate Route NO. 4 |
| PT NO. 6 | N: 511979.67 | E: 2679056.28 | 29°53'38.87" | -93°13'57.22" | End Access Route NO. 2 |
| PT NO. 7 | N: 500731.48 | E: 2677456.65 | 29°51'47.27" | -93°14'13.27" | End Access Route NO. 3a |
| PT NO. 8 | N: 495558.22 | E: 2673990.86 | 29°50'55.49" | -93°14'51.65" | End Access Route NO. 3b |
| PT NO. 9 | N: 494502.39 | E: 2650631.43 | 29°50'41.11" | -93°19'16.67" | Intermediate Route NO. 4 |
| PT NO. 10 | N: 493712.14 | E: 2650587.63 | 29°50'33.28" | -93°19'17.01" | Intermediate Route NO. 4 |
| PT NO. 11 | N: 492630.96 | E: 2650800.03 | 29°50'22.62" | -93°19'14.39" | End Access Route NO. 4 |




NOTES:

1. ACCESS ROUTES NO. 1-3a WERE ESTABLISHED BY LDWF AND CPRA DURING THE CONSTRUCTION OF THE CAMERON-CREOLE LAKE SHORE PROTECTION PROJECT.
2. ACCESS ROUTES NO. 3b AND 4 ARE BASED OFF THE AREAS ILLUSTRATED IN FIGURE 7.2 OF LDWF'S 2019 STOCK ASSESSMENT REPORT OF THE PUBLIC OYSTER SEED GROUNDS AND RESERVATIONS OF LOUISIANA (OYSTER DATA REPORT SERIES NO. 25).
3. ACCESS ROUTES ILLUSTRATED IN THE DRAWINGS ARE PROPOSED ONLY. DISTURBANCE OF WATER BOTTOMS, INCLUDING BUT NOT LIMITED TO EXISTING OYSTER REEFS, IS NOT PERMITTED ALONG ANY ROUTE THE CONTRACTOR CHOOSES TO USE FOR ACCESS TO THE PROJECT SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT WATER DEPTHS ALONG ANY ACCESS ROUTES THEY CHOOSE TO USE FOR THIS PROJECT, WHETHER PROPOSED IN THE DRAWINGS OR NOT, ARE ADEQUATE IN ORDER TO AVOID ANY WATER BOTTOM DISTURBANCE DURING MOBILIZATION/DEMOBILIZATION OF MATERIALS AND EQUIPMENT, AND DURING INTERMITTENT TRAVEL TO AND FROM THE SITE. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY WATER BOTTOM DISTURBANCE THAT OCCURS OUTSIDE OF THE AREAS PERMITTED FOR EXCAVATION AND FILL ACTIVITIES AS ILLUSTRATED AND STATED IN THE DRAWINGS.

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED ACCESS ROUTE

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: REC

DATE: NOV. 07, 2022

SHEET 5 OF 45

# Project (CS-04a) Storm Damage Repairs – MOB/DEMOB & SURVEYS

| Point Number | Northing | Easting | Latitude | Longitude | Description |
|---|---|---|---|---|---|
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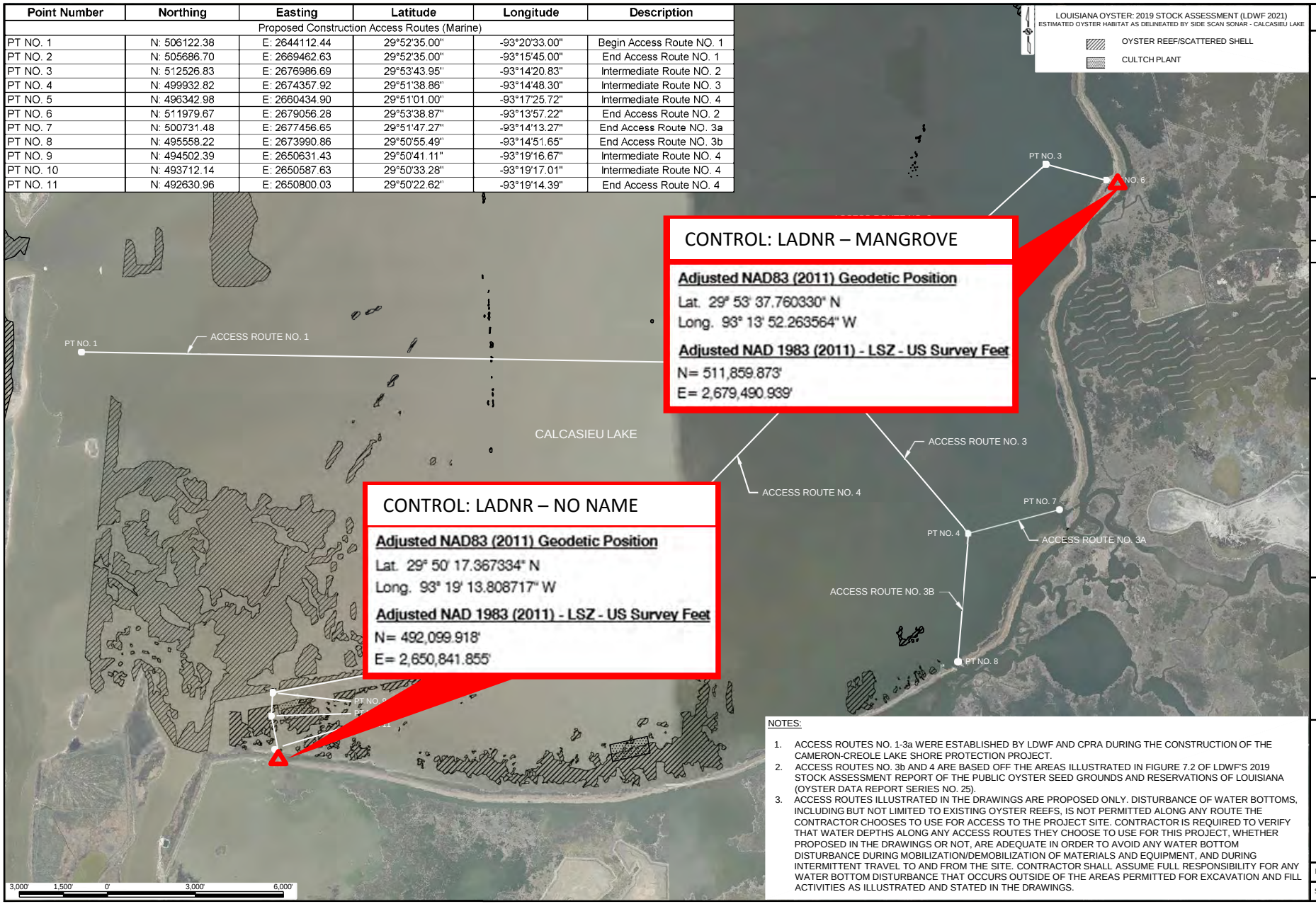


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PROPOSED ACCESS ROUTE

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 5 OF 45

# Project (CS-04a) Storm Damage Repairs – EXCAVATION

## Project Breakdown - Hurricane Laura Storm Damage Repairs

| CS-04a: SUMMARY OF TASKS BY PROJECT FEATURE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mangrove Bayou | | Grand Bayou | | | Lambert Bayou | | No Name Bayou | |
| WCS | Int. Canal Plug | WCS | Levee Breach | Int. Canal Plug | WCS | Levee Breach | WCS | Levee Breach |
| *Excavation and Removal of Siltation and Debris* | *Scour Repairs* | *Scour Repairs* | *Extension of Sheet Pile Wall* | *Scour Repairs* | *Mechanical Repairs* | | *Scour Repairs* | *Scour Repairs* |
| | | *Mechanical Repairs* | | | *Extension of Sheet Pile Wall* | | *Mechanical Repairs* | |

### Excavation and Removal of Siltation and Debris

- **EXCAVATION** (TS-370): Bid Item No. 3

### Scour Repairs

- **RIP RAP** (TS-700): Bid Item Nos. 4, 6, 8, 20 and 23
- **WOVEN GEOTEXTILE FABRIC** (TS-601): Bid Item Nos. 5, 7, 9, 21 and 24

### Mechanical Repairs to Water Control Structures

- **MECHANICAL REPAIRS TO WCS**: Bid Item Nos. 10, 17 and 22
- Gates (TS-520), Buoys (TS-802), Fencing (TS-950), Railing (TS-951), Stairs (TS-952), Metals (TS-980)

### Extension of Levee Breach Structures (Sheet Pile Wall)

- **RIP RAP** (TS-700): Bid Item Nos. 11 and 15
- **WOVEN GEOTEXTILE FABRIC** (TS-601): Bid Item Nos. 12 and 16
- **PERMANENT STEEL SHEETING** (TS-920): Bid Item Nos. 13 and 18
- **PILES** (TS-921): Bid Item Nos. 14 and 19

# Project Base Bid Summary - Hurricane Laura Storm Damage Repairs

| BASE BID SUMMARY: CAMERON CREOLE MAINTENANCE PROJECT (CS-004-A) - STORM DAMAGE REPAIRS | | | |
|---|---|---|---|
| Bid Item Number | Description | Quantity | Unit of Measure |
| 1 | Mobilization and Demobilization (TS-120) | 1 | LUMP SUM |
| 2 | Surveys (TS-210) | 1 | LUMP SUM |
| 3 | Excavation (TS-370) - Mangrove Bayou Outlet Channel | 4,000 | CY |
| 4 | Rip Rap (TS-700) - Mangrove Bayou Interior Canal Plug | 490 | TON |
| 5 | Woven Geotextile Fabric (TS-601) - Mangrove Bayou Interior Canal Plug | 590 | SY |
| 6 | Rip Rap (TS-700) - Grand Bayou Interior Canal Plug | 715 | TON |
| 7 | Woven Geotextile Fabric (TS-601) - Grand Bayou Interior Canal Plug | 695 | SY |
| 8 | Rip Rap (TS-700) - Grand Bayou Water Control Structure | 170 | TON |
| 9 | Woven Geotextile Fabric (TS-601) - Grand Bayou Water Control Structure | 120 | SY |
| 10 | Mechanical Repairs to WCS - Grand Bayou Water Control Structure | 1 | LUMP SUM |
| 11 | Rip Rap (TS-700) - Grand Bayou Levee Breach | 3,200 | TON |
| 12 | Woven Geotextile Fabric (TS-601) - Grand Bayou Levee Breach | 1,215 | SY |
| 13 | Permanent Steel Sheeting (TS-920) - Grand Bayou Levee Breach | 4,800 | SF |
| 14 | Piles (TS-921) - Grand Bayou Levee Breach | 700 | LF |
| 15 | Rip Rap (TS-700) - Lambert Bayou Levee Breach & Water Control Structure | 2,500 | TON |
| 16 | Woven Geotextile Fabric (TS-601) - Lambert Bayou Levee Breach & Water Control Structure | 1,410 | SY |
| 17 | Mechanical Repairs to WCS - Lambert Bayou Water Control Structure | 1 | LUMP SUM |
| 18 | Permanent Steel Sheeting (TS-920) - Lambert Bayou Levee Breach & Water Control Structure | 3,375 | SF |
| 19 | Piles (TS-921) - Lambert Bayou Levee Breach & Water Control Structure | 600 | LF |
| 20 | Rip Rap (TS-700) - No Name Bayou Water Control Structure | 925 | TON |
| 21 | Woven Geotextile Fabric (TS-601) - No Name Bayou Water Control Structure | 560 | SY |
| 22 | Mechanical Repairs to WCS - No Name Bayou Water Control Structure | 1 | LUMP SUM |
| 23 | Rip Rap (TS-700) - No Name Bayou Levee Breach | 240 | TON |
| 24 | Woven Geotextile Fabric (TS-601) - No Name Bayou Levee Breach | 230 | SY |

# CS-04a Cameron-Creole Maintenance Project – Storm Damage Repairs

| CS-04a: SUMMARY OF TASKS BY PROJECT FEATURE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mangrove Bayou | | Grand Bayou | | | Lambert Bayou | | No Name Bayou | |
| WCS | Int. Canal Plug | WCS | Levee Breach | Int. Canal Plug | WCS | Levee Breach | WCS | Levee Breach |
| *Excavation and Removal of Siltation and Debris* | *Scour Repairs* | *Scour Repairs* | *Extension of Sheet Pile Wall* | *Scour Repairs* | *Mechanical Repairs* | | *Scour Repairs* | *Scour Repairs* |
| | | *Mechanical Repairs* | | | *Extension of Sheet Pile Wall* | | *Mechanical Repairs* | |

| BASE BID SUMMARY: CAMERON CREOLE MAINTENANCE PROJECT (CS-004-A) - STORM DAMAGE REPAIRS | | | |
|---|---|---|---|
| Bid Item Number | Description | Quantity | Unit of Measure |
| 3 | Excavation (TS-370) - Mangrove Bayou Outlet Channel | 4,000 | CY |
| 4 | Rip Rap (TS-700) - Mangrove Bayou Interior Canal Plug | 490 | TON |
| 5 | Woven Geotextile Fabric (TS-601) - Mangrove Bayou Interior Canal Plug | 590 | SY |
| 6 | Rip Rap (TS-700) - Grand Bayou Interior Canal Plug | 715 | TON |
| 7 | Woven Geotextile Fabric (TS-601) - Grand Bayou Interior Canal Plug | 695 | SY |
| 8 | Rip Rap (TS-700) - Grand Bayou Water Control Structure | 170 | TON |
| 9 | Woven Geotextile Fabric (TS-601) - Grand Bayou Water Control Structure | 120 | SY |
| 10 | Mechanical Repairs to WCS - Grand Bayou Water Control Structure | 1 | LUMP SUM |
| 11 | Rip Rap (TS-700) - Grand Bayou Levee Breach | 3,200 | TON |
| 12 | Woven Geotextile Fabric (TS-601) - Grand Bayou Levee Breach | 1,215 | SY |
| 13 | Permanent Steel Sheeting (TS-920) - Grand Bayou Levee Breach | 4,800 | SF |
| 14 | Piles (TS-921) - Grand Bayou Levee Breach | 700 | LF |
| 15 | Rip Rap (TS-700) - Lambert Bayou Levee Breach & Water Control Structure | 2,500 | TON |
| 16 | Woven Geotextile Fabric (TS-601) - Lambert Bayou Levee Breach & Water Control Structure | 1,410 | SY |
| 17 | Mechanical Repairs to WCS – Lambert Bayou Water Control Structure | 1 | LUMP SUM |
| 18 | Permanent Steel Sheeting (TS-920) - Lambert Bayou Levee Breach & Water Control Structure | 3,375 | SF |
| 19 | Piles (TS-921) - Lambert Bayou Levee Breach & Water Control Structure | 600 | LF |
| 20 | Rip Rap (TS-700) - No Name Bayou Water Control Structure | 925 | TON |
| 21 | Woven Geotextile Fabric (TS-601) - No Name Bayou Water Control Structure | 560 | SY |
| 22 | Mechanical Repairs to WCS - No Name Bayou Water Control Structure | 1 | LUMP SUM |
| 23 | Rip Rap (TS-700) - No Name Bayou Levee Breach | 240 | TON |
| 24 | Woven Geotextile Fabric (TS-601) - No Name Bayou Levee Breach | 230 | SY |

# Project Quantities - Hurricane Laura Storm Damage Repairs

| SITEWORK MATERIAL QUANTITIES PER PROJECT FEATURE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Mangrove Bayou | | Grand Bayou | | | Lambert Bayou | No Name Bayou | | Cumulative |
| | WCS | Int. Canal Plug | WCS | Levee Breach | Int. Canal Plug | WCS & Levee Breach | WCS | Levee Breach | |
| **Excavated & Hauled Offsite (CY)** | 4,000 | | | | | | | | **4,000** |
| **Rock - rip rap (TONS)** | | 490 | 170 | 3,200 | 715 | 2,500 | 925 | 240 | **8,240** |
| **Woven Geotextile Fabric (SY)** | | 590 | 120 | 1,215 | 695 | 1,410 | 560 | 230 | **4,820** |
| **Steel Sheetpiles (SF)** | | | | 4,800 | | 3,375 | | | **8,175** |
| **Steel Batter Piles (LF)** | | | | 700 | | 600 | | | **1,300** |

# Bid Item 1 (TS-120)

## Mobilization and Demobilization

1. Refer to Technical Specifications for specifics
2. **Payment** = Lump Sum
3. **Ratio of Effort**
   - 60% after confirmation of the start of Work
   - 40% after all equipment, personnel, supplies, etc. is removed from the work area and after Acceptance of all Work

# Bid Item 2 (TS-210)

## Surveys

1. Refer to Technical Specifications for specifics
2. **Payment** = Lump Sum
3. **Ratio of Effort**
   - 40% after Acceptance of ALL Pre-construction Surveys
   - 60% after Acceptance of ALL As-built Surveys

# Bid Items 10, 17, and 22 (TS-520, TS-802, TS-950, TS-951, TS-952, and TS-980)

## Mechanical Repairs to WCS

1. Includes all materials, labor, and equipment necessary to furnish and install/replace damaged Gates, Floating Buoys, Fencing, Railings, and Stairs as well as all incidentals.
   - This Bid Item includes ALL associated hardware components.
2. **Payment** = Lump Sum (per water control structure)
3. **Ratio of Effort** = 100% after all of the required mechanical repairs are completed and recorded for Acceptance of a given water control structure.

# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou

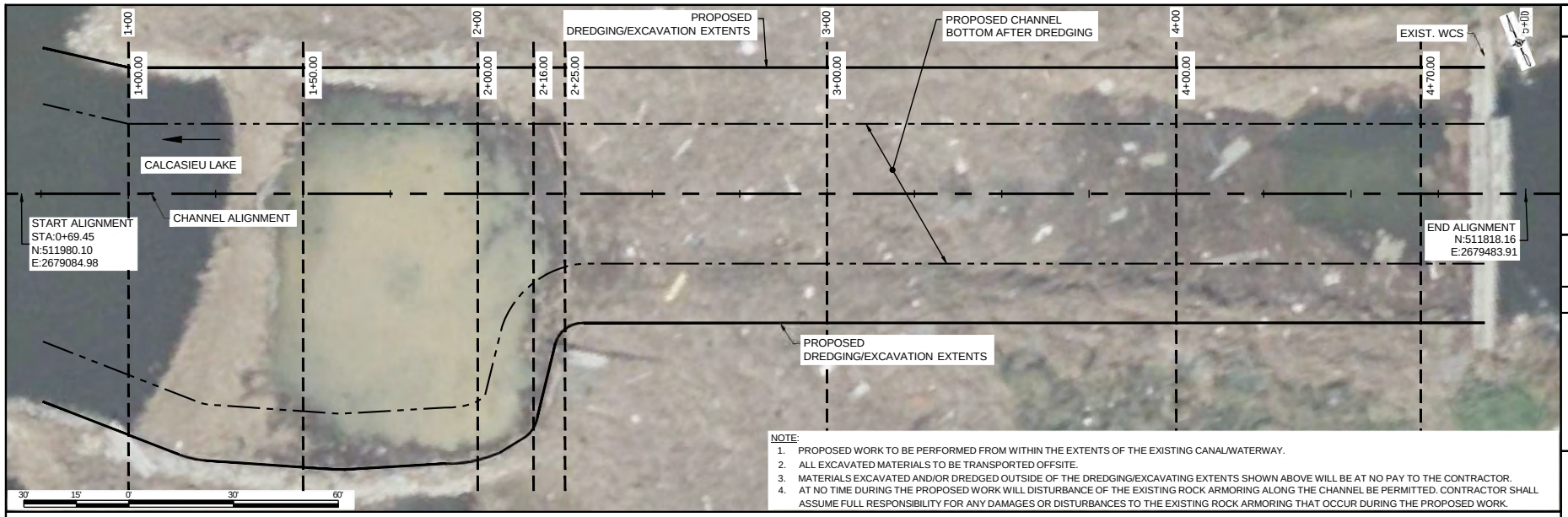
# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou

## Mangrove Bayou WCS

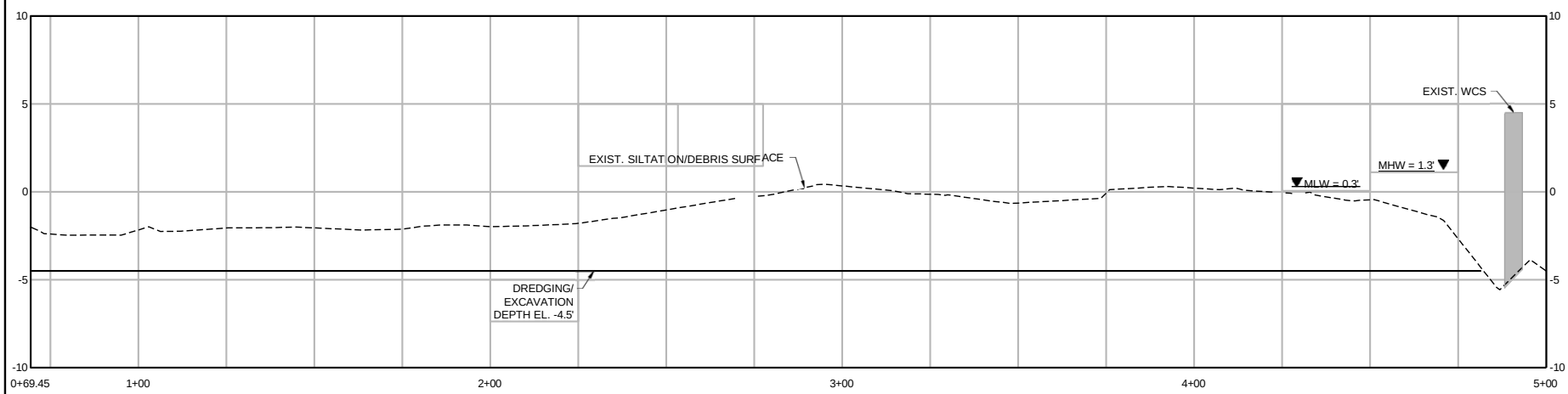
- Build-up of Siltation & Debris within Outlet Channel
- Debris caught inside of Structure gates
- Debris scattered throughout the marsh in the vicinity of the structure

# Mangrove Bayou WCS (Post Laura) – Google Earth Imagery

# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou




NOTE:
1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE EXISTING CANAL/WATERWAY.
2. ALL EXCAVATED MATERIALS TO BE TRANSPORTED OFFSITE.
3. MATERIALS EXCAVATED AND/OR DREDGED OUTSIDE OF THE DREDGING/EXCAVATING EXTENTS SHOWN ABOVE WILL BE AT NO PAY TO THE CONTRACTOR.
4. AT NO TIME DURING THE PROPOSED WORK WILL DISTURBANCE OF THE EXISTING ROCK ARMORING ALONG THE CHANNEL BE PERMITTED. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES OR DISTURBANCES TO THE EXISTING ROCK ARMORING THAT OCCUR DURING THE PROPOSED WORK.




HORIZONTAL GRAPHIC SCALE
30' 15' 0' 30' 60'
6' 3' 0' 6' 12'
VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MANGROVE BAYOU WCS OUTLET PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

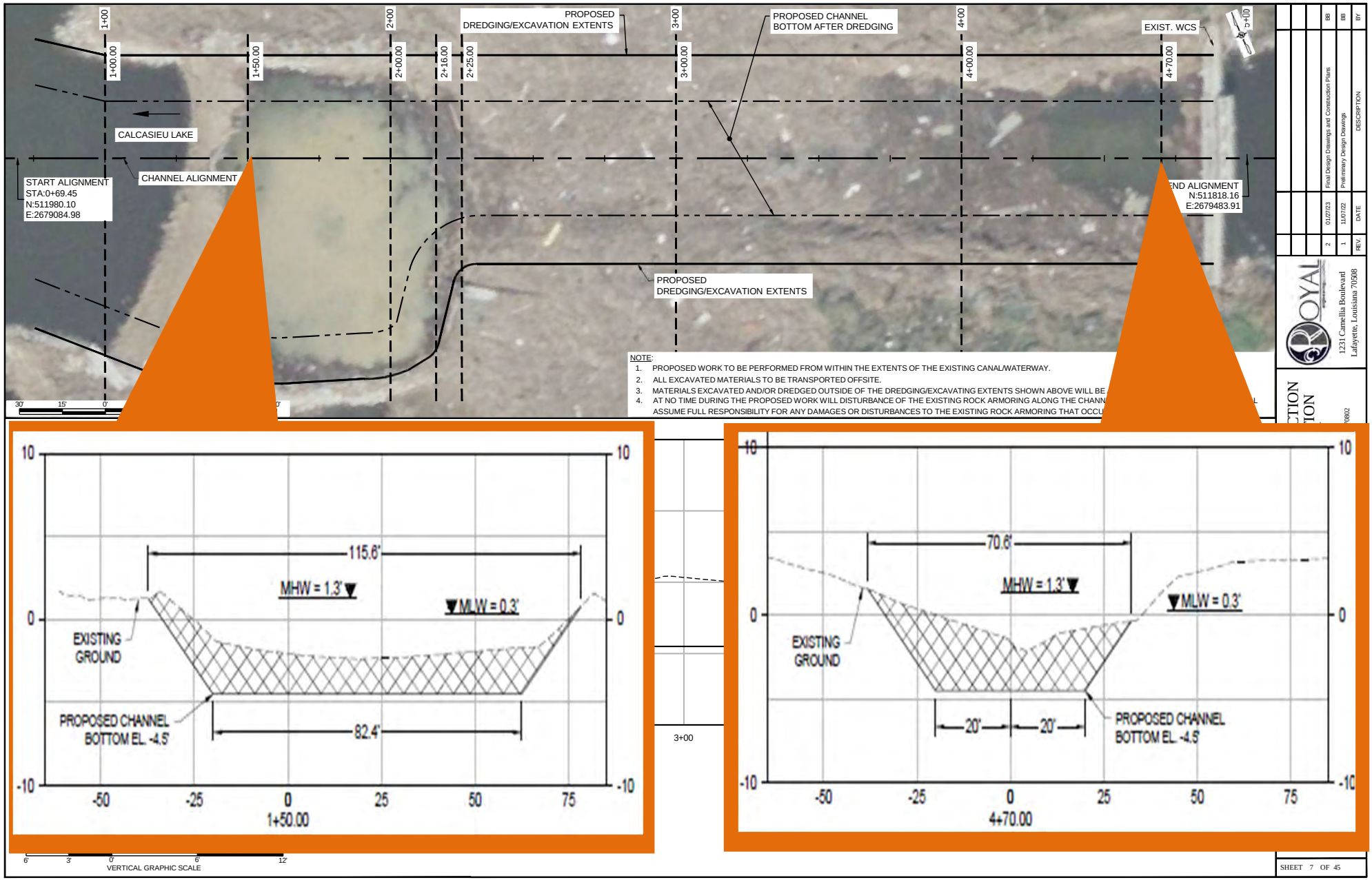
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

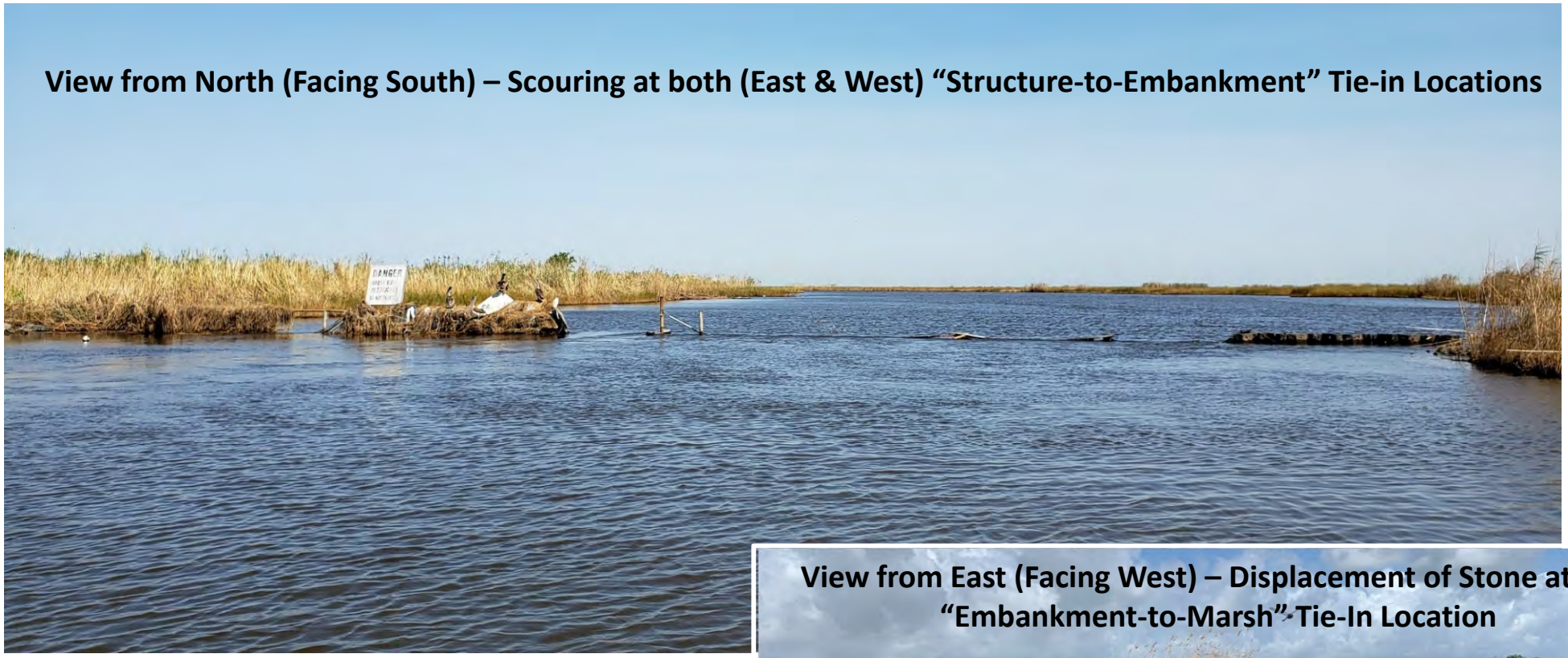
DATE: NOV. 07, 2022

SHEET 7 OF 45

# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou



# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou

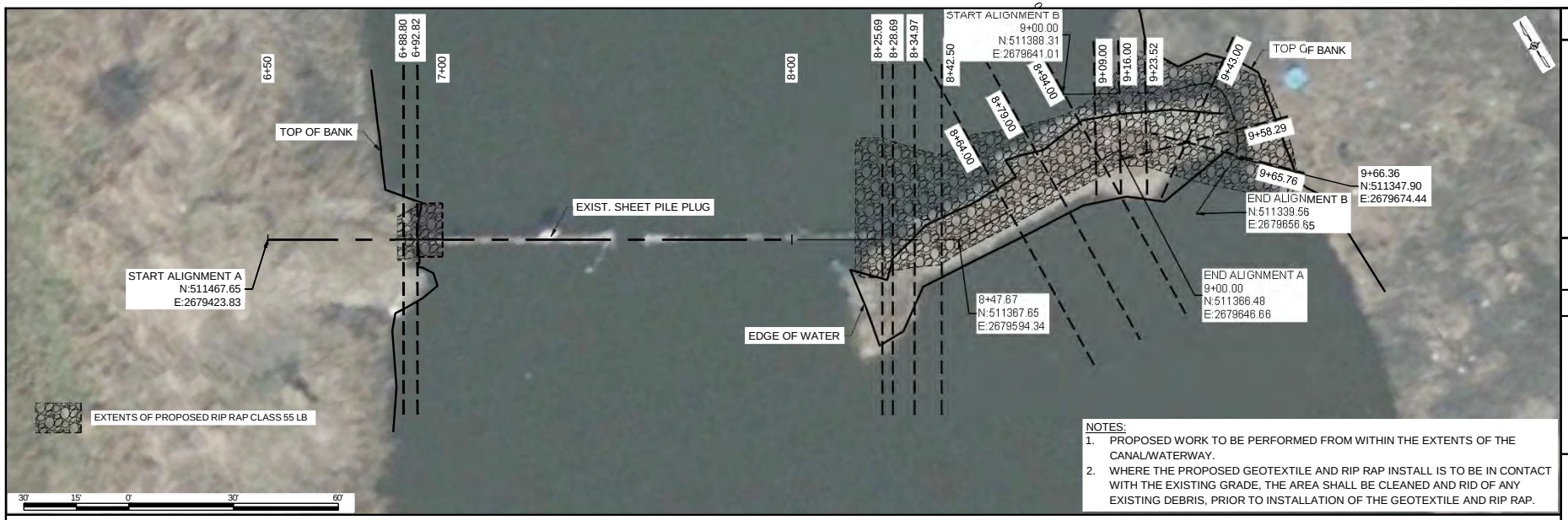


## Interior Canal Plug Scour Repairs

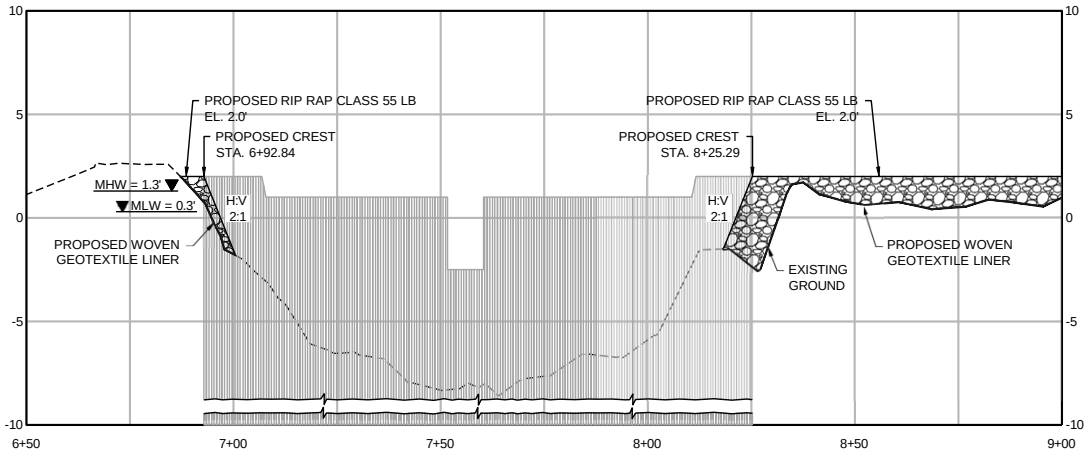
- **Scouring at both ends of sheet pile plug structure**
- **Displacement of stone armoring**

# Mangrove Bayou Interior Canal Plug (Post Laura) – Google Earth Imagery

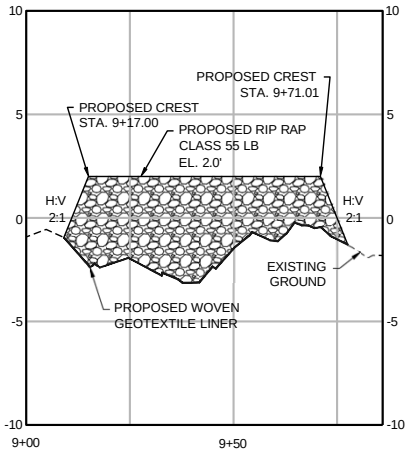
# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou




NOTES:
1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE CANAL/WATERWAY.
2. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




ALIGNMENT A




ALIGNMENT B

HORIZONTAL GRAPHIC SCALE
30' 15' 0' 30' 60'
6' 3' 0' 6' 12'
VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
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| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED MANGROVE BAYOU PLUG
PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

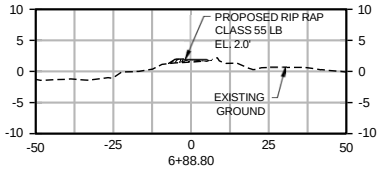
STATE PROJECT NUMBER: CS-04-A
DRAWN BY: REC

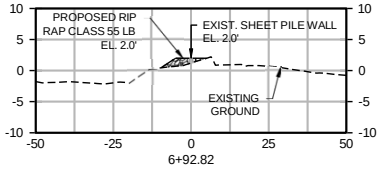
DATE: NOV. 07, 2022

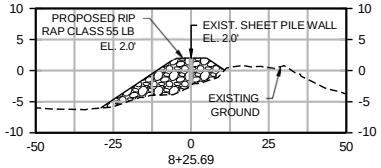
SHEET 10 OF 45

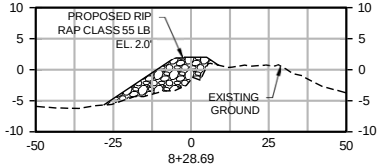
# Project (CS-04a) Storm Damage Repairs – Mangrove Bayou

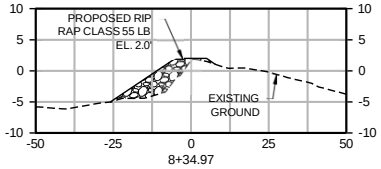
ALIGNMENT A

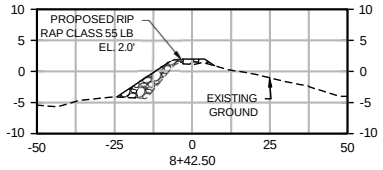


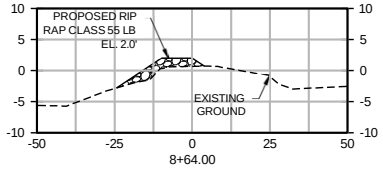



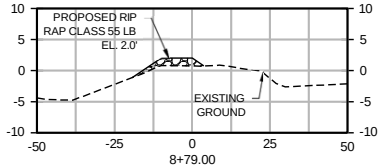



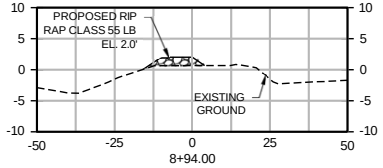



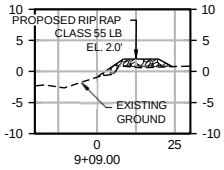



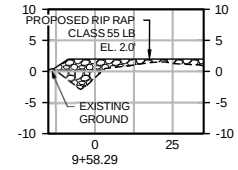



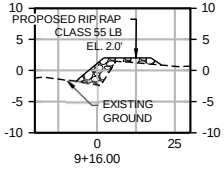



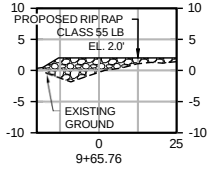



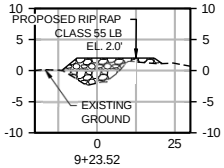

ALIGNMENT B

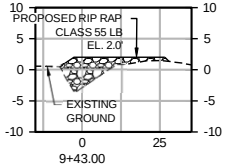



NOTES:

1. THE BID QUANTITY OF FILL IS BASED ON SURVEY DATA COLLECTED BY T.BAKER SMITH DURING JUNE AND JULY OF 2022. SEE SHEET 3 FOR QUANTITIES.
2. A TOP WIDTH OF 10' IS REQUIRED FOR TYPICAL RIP RAP SECTIONS UNLESS NOTED OTHERWISE.
3. WOVEN GEOTEXTILE FABRIC TO EXTEND 3' BEYOND PROPOSED FOOTPRINT OF THE RIP RAP BEFORE RIP RAP INSTALLED. NO PAY INCLUDED FOR OVERLAP OF GEOTEXTILE.
4. ELEVATION OF TIE-IN AT TOE OF ROCK WILL BE DICTATED BY SIDE-SLOPE OF ROCK UNLESS NOTED OTHERWISE.
5. EXISTING STRUCTURE ELEVATION AT 2.0'
6. SIDE-SLOPE OF RIP RAP IS 3:1 H:V UNLESS NOTED OTHERWISE.
7. MEAN HIGH WATER 1.3', MEAN LOW WATER 0.3'.
8. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.

HORIZONTAL GRAPHIC SCALE

40' 20' 0' 40' 80'

20' 10' 0' 20' 40'

VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MANGROVE BAYOU PLUG CROSS SECTIONS

DESIGNED BY: BB

APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

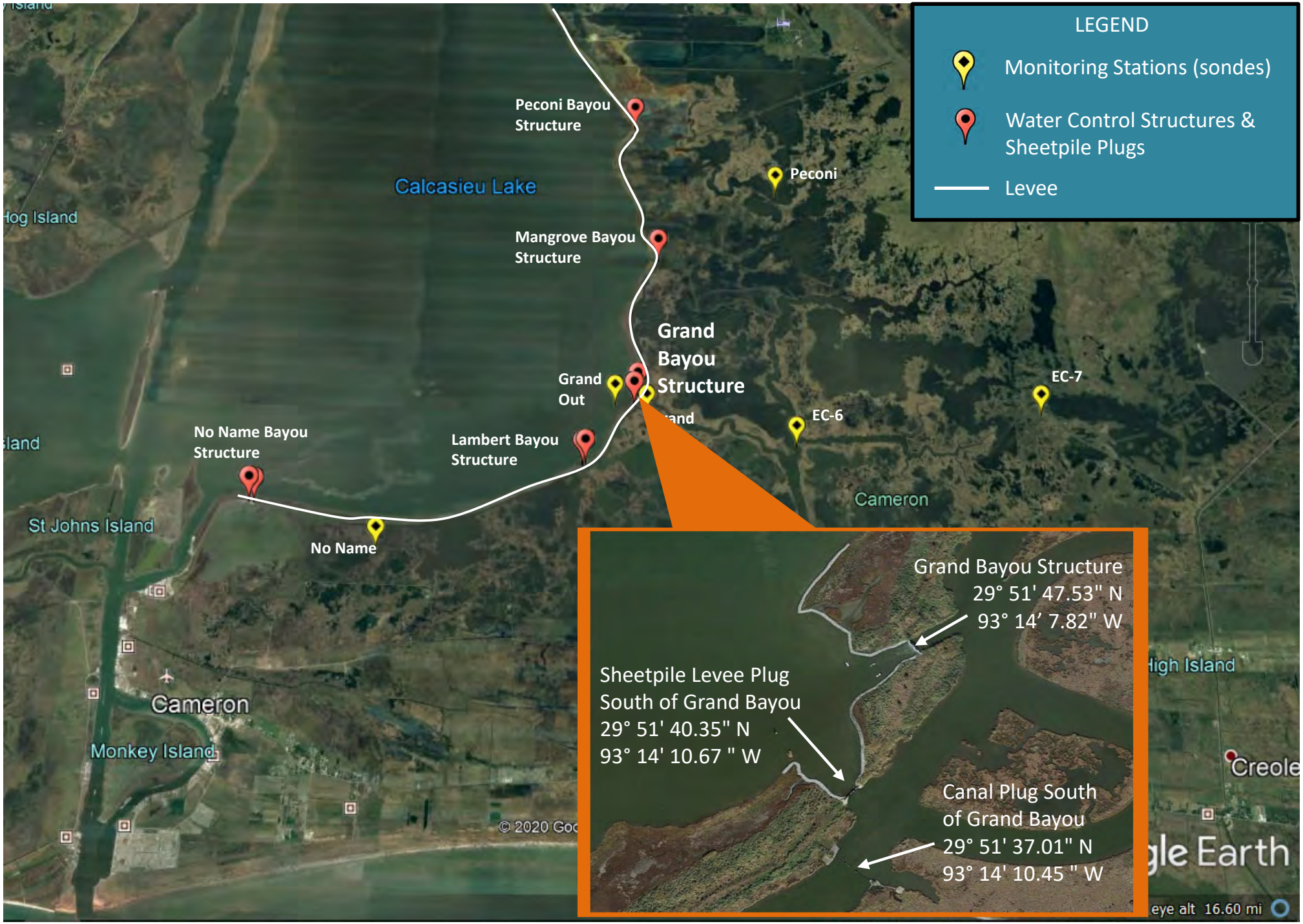
STATE PROJECT NUMBER: CS-04-A

DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 11 OF 45

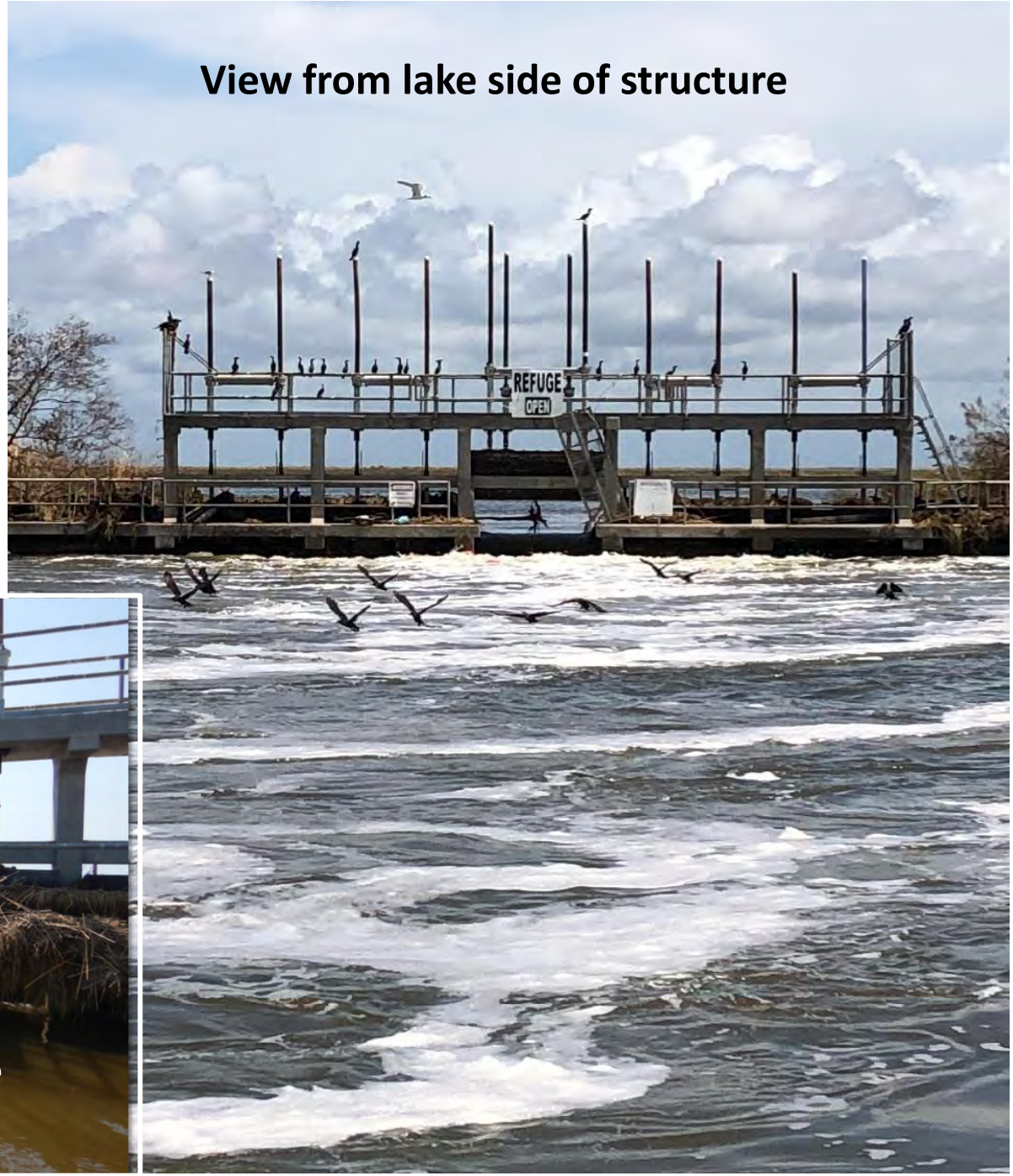
# Project (CS-04a) Storm Damage Repairs – Grand Bayou



# Project (CS-04a) Storm Damage Repairs – Grand Bayou

## WCS
## Scour & Mechanical Repairs

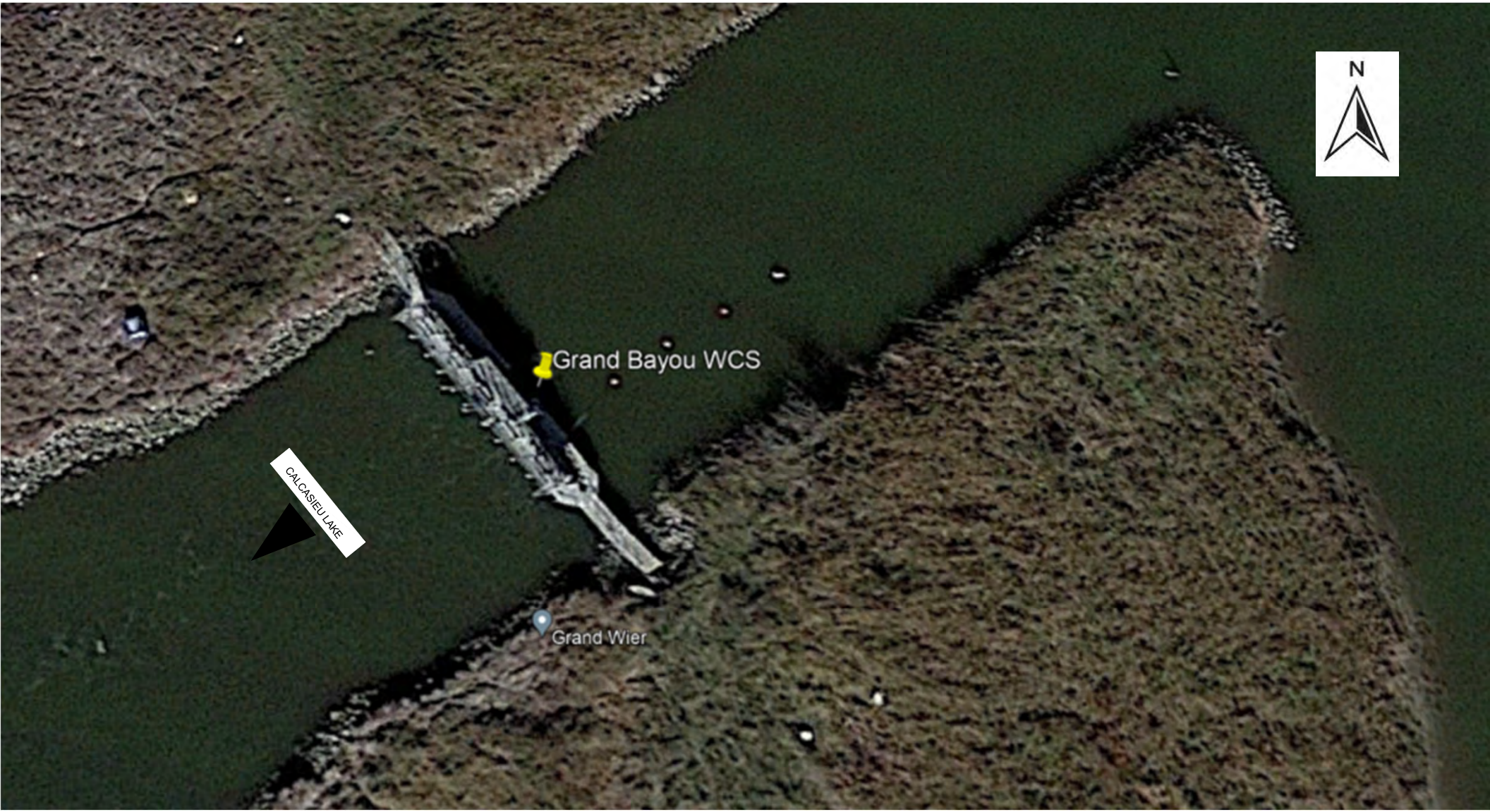
- Scouring at South End Tie-in to Levee/Embankment
- Damaged guard rail sections (4) and anchor brackets (8)
- Damaged flap gate and hardware (1)
- Damaged drop/sluice gate boards
- Displaced boat bay guides



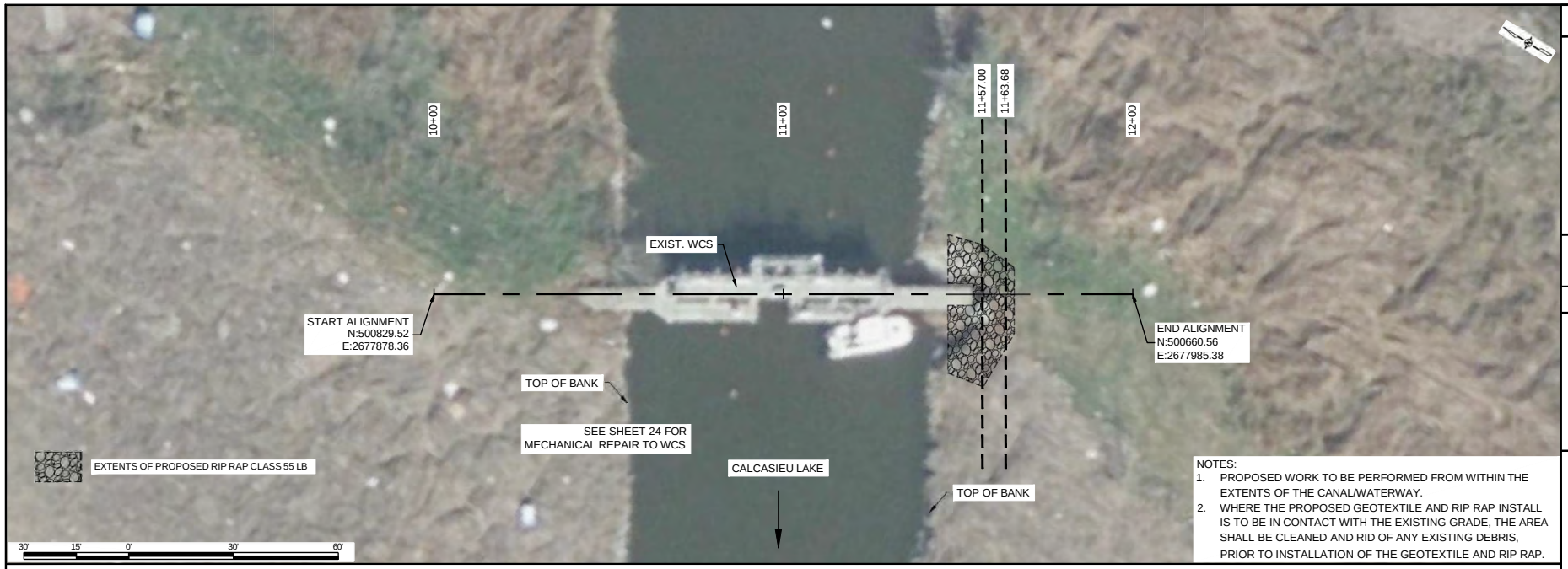

View from lake side of structure

View from marsh side of structure

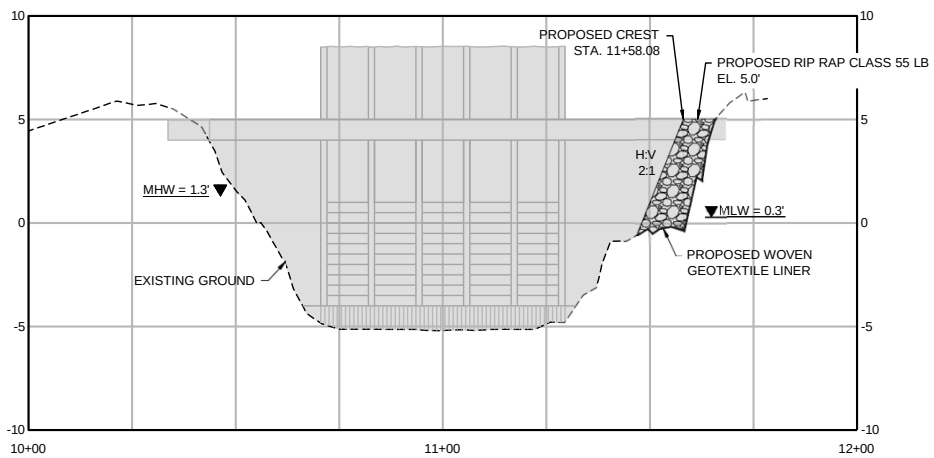
# Grand Bayou WCS (Post Laura) – Google Earth Imagery



# Project (CS-04a) Storm Damage Repairs – Grand Bayou




NOTES:
1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE CANAL/WATERWAY.
2. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




HORIZONTAL GRAPHIC SCALE
30' 15' 0' 30' 60'
6' 3' 0' 6' 12'
VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Drawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Drawings | BB |

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1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GRAND BAYOU WCS PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

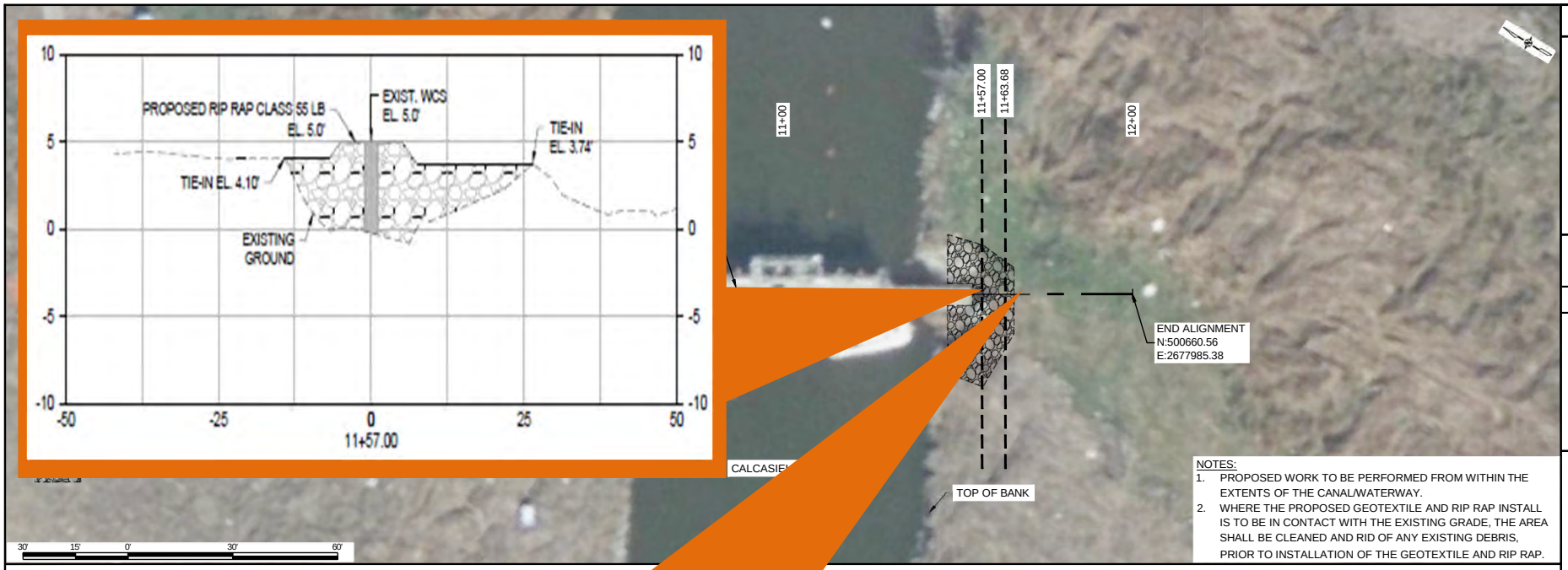
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 21 OF 45

# Project (CS-04a) Storm Damage Repairs – Grand Bayou




NOTES:
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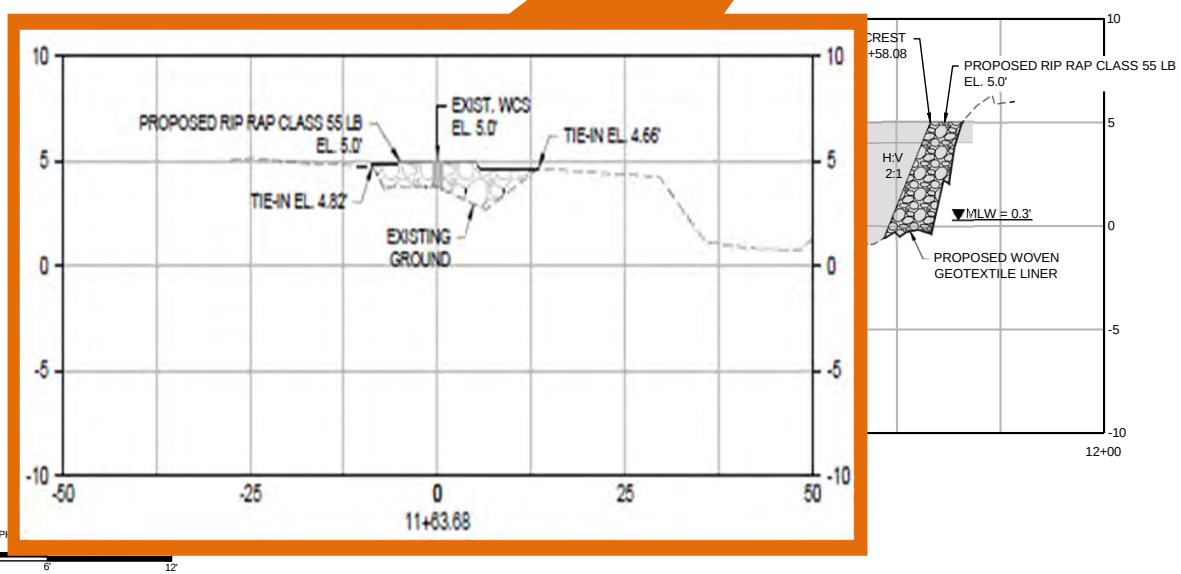
2. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
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GRAND BAYOU WCS PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

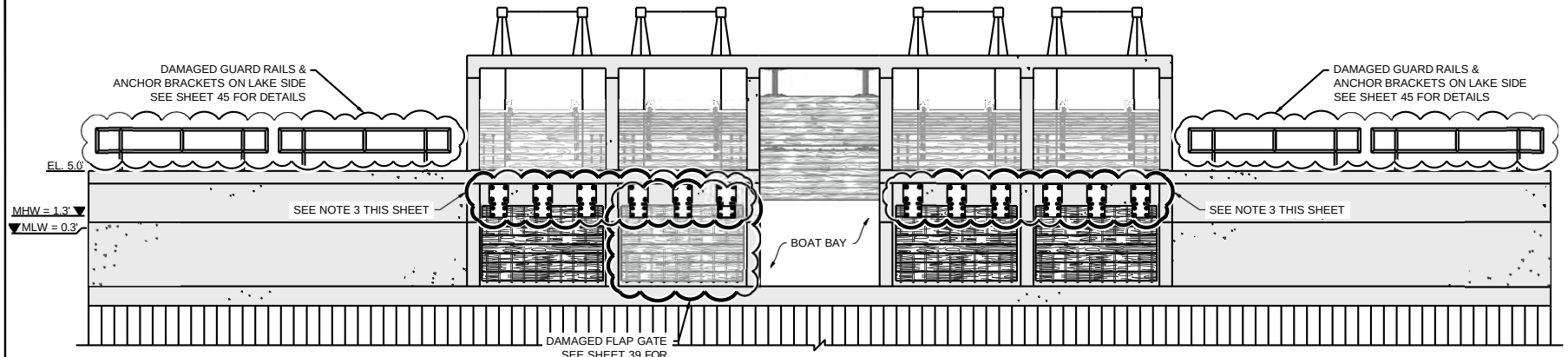
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

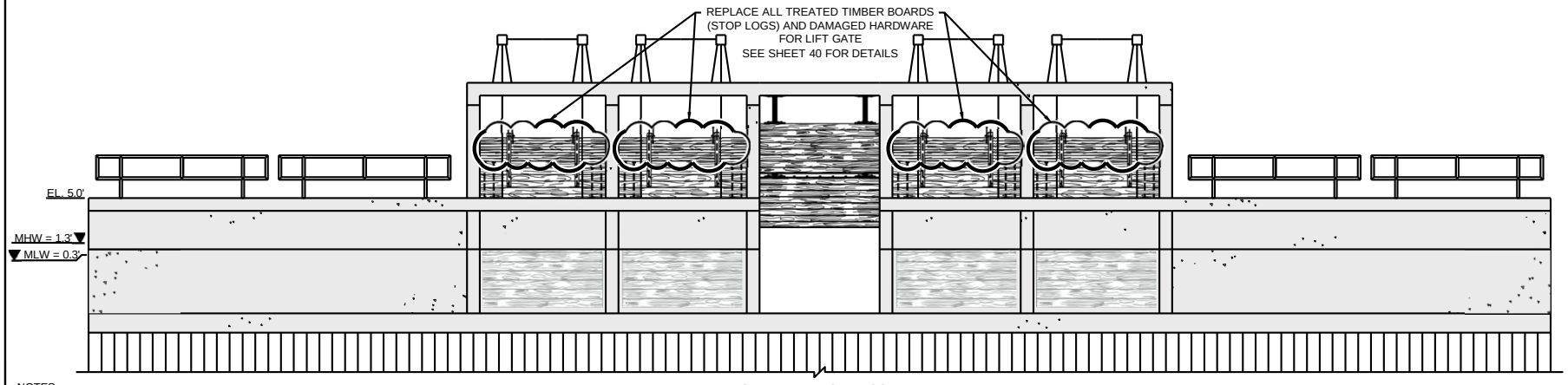
DATE: NOV. 07, 2022

SHEET 21 OF 45

# Project (CS-04a) Storm Damage Repairs – Grand Bayou




GRAND BAYOU WCS
LAKE SIDE VIEW
NTS




GRAND BAYOU WCS
MARSH SIDE VIEW
NTS

NOTES:

1. PROPOSED WORK ON SHEETS 23 & 24 SHOULD CONSTITUTE ALL OF THE WORK INCLUDED IN BID ITEM NO. 10 "MECHANICAL REPAIRS TO GRAND BAYOU WCS".
2. MECHANICAL REPAIRS TO GRAND BAYOU WCS SHALL BE PERFORMED IN CONFORMANCE WITH TECHNICAL SPECIFICATIONS SECTIONS TS-520 "GATES", TS-802 "FLOATING BUOYS", TS-951 "RAILING", AND TS-980 "METALS".
3. GUARD RAIL AND ASSOCIATED GUARD RAIL ANCHOR BRACKET REPLACEMENT TO BE PERFORMED ON THE FOUR LAKE SIDE GUARD RAILS, AS CALLED OUT IN THE LAKE SIDE PROFILE VIEW, ONLY.
4. CONTRACTOR SHALL FIELD CHECK EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO REPLACE ANY DAMAGED OR CORRODED FASTENERS AND/OR HINGES LOCATED ABOVE THE MEAN LOW WATER LINE SHOWN, WITH 316 STAINLESS STEEL FASTENERS OF EQUIVALENT SIZE AND STRENGTH OF EXISTING.
6. CONTRACTOR SHALL FIELD VERIFY THE PRE-EXISTING ANCHOR POST LOCATIONS AND SPACING DIMENSIONS FOR GUARD RAIL AND/OR FENCE ANCHORING POINTS PRIOR TO BEGINNING WORK, ORDERING AND/OR FABRICATING ITEMS, AND PREPARING SHOP DRAWINGS.

★ SEE SHEET 24 FOR BUOY INSTALLATION DETAILS

| BID ITEM No. 10 - SCOPE OF WORK: MECHANICAL REPAIRS TO GRAND BAYOU WCS | | |
|---|---|---|
| ACTION | QUANTITY | ITEM DESCRIPTION |
| 1. Remove & Replace | (32) EACH | Treated timber board for lower gate -- 10.6 FT long x 6 IN wide x 3 IN thick |
| 3. Replace | (1) EACH | Rodney Hunt FV-T treated timber flap gate (three hinge connections) OR APPROVED EQUAL – 108 IN long x 60 IN wide |
| 4. Remove & Replace | (4) EACH | Hand/guard-rails –Galvanized steel pipe with posts – 2 IN dia. schedule 40 & 2 IN dia. schedule 80 (fabricated lengths will vary) |
| 5. Remove & Replace | (8) EACH | Anchor bracket for guard rail |
| 6. Replace | (6) EACH | Jim Buoy Mo. 4418 Industrial Float – Industrial floating buoys connected by steel cable |
| 7. Replace | (2) EACH | Jim Buoy Mo. 3000 Regulatory Buoy/Channel Marker w/ Concrete Buoy Anchor (steel cable connection) -- Industrial floating buoys connected by steel cable |

| REV. | DATE | DESCRIPTION | BY |
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| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MECHANICAL REPAIRS TO GRAND BAYOU WCS ELEVATION VIEW

DESIGNED BY: BB
APPROVED BY: BT

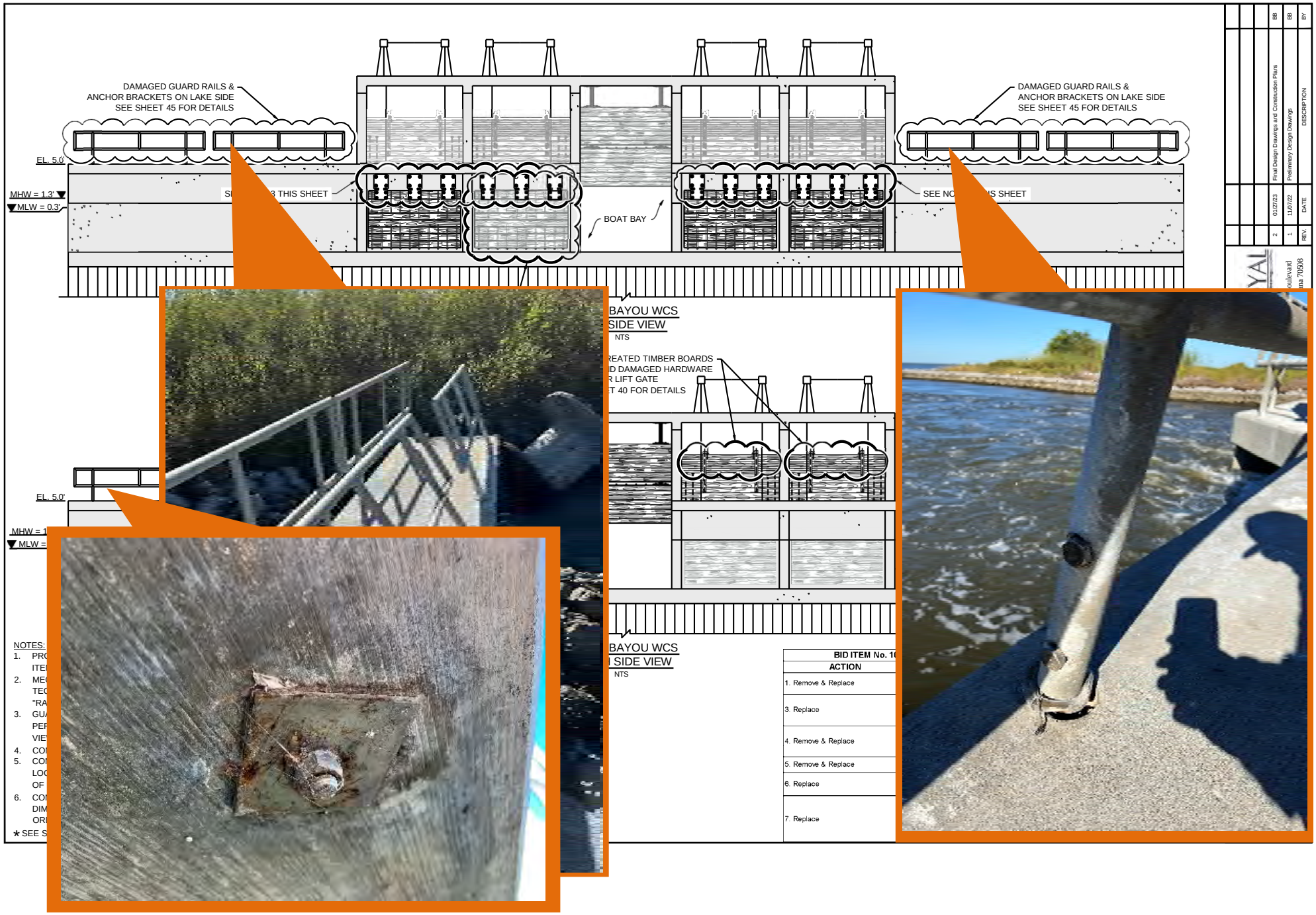
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

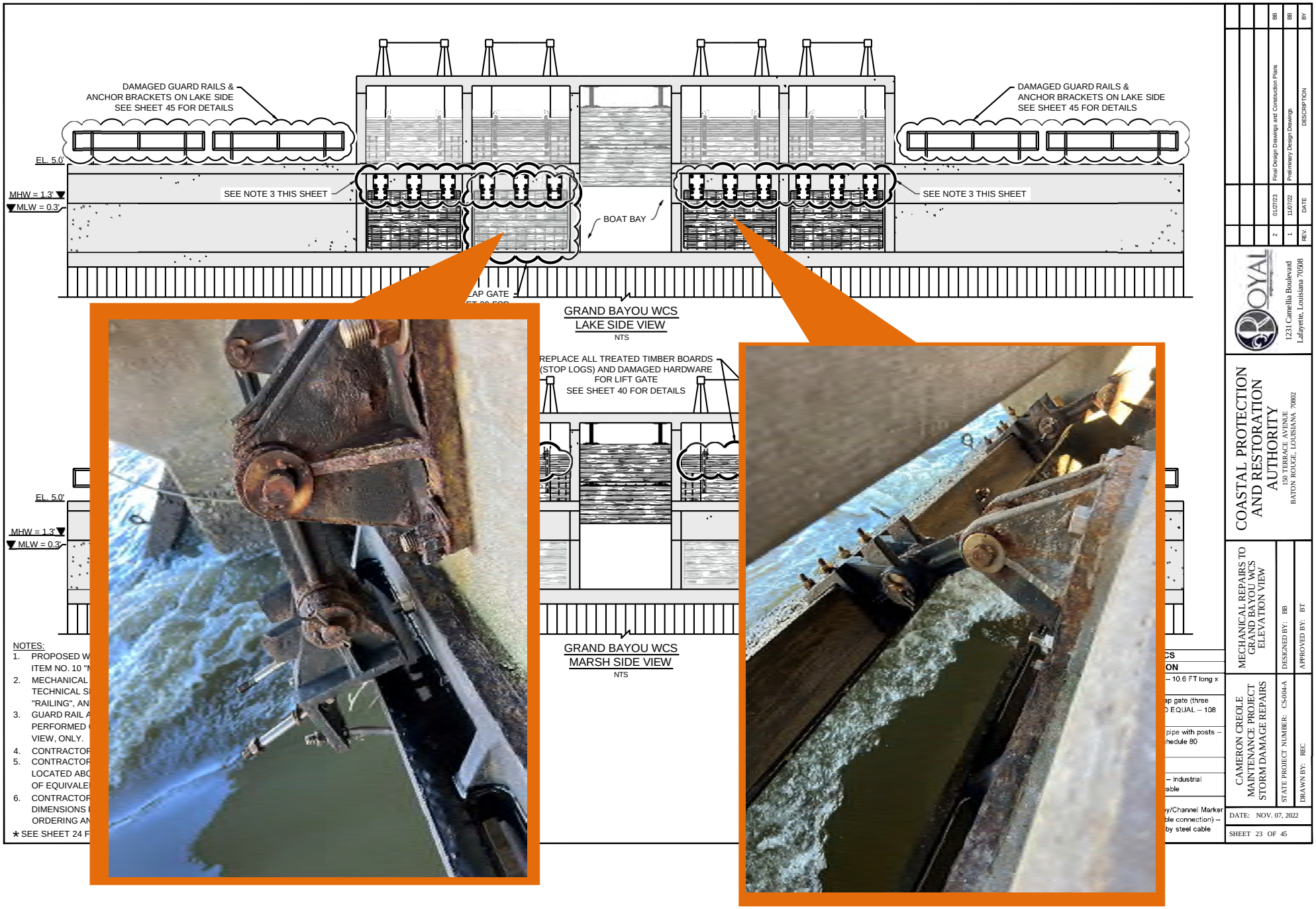
DATE: NOV. 07, 2022

SHEET 23 OF 45

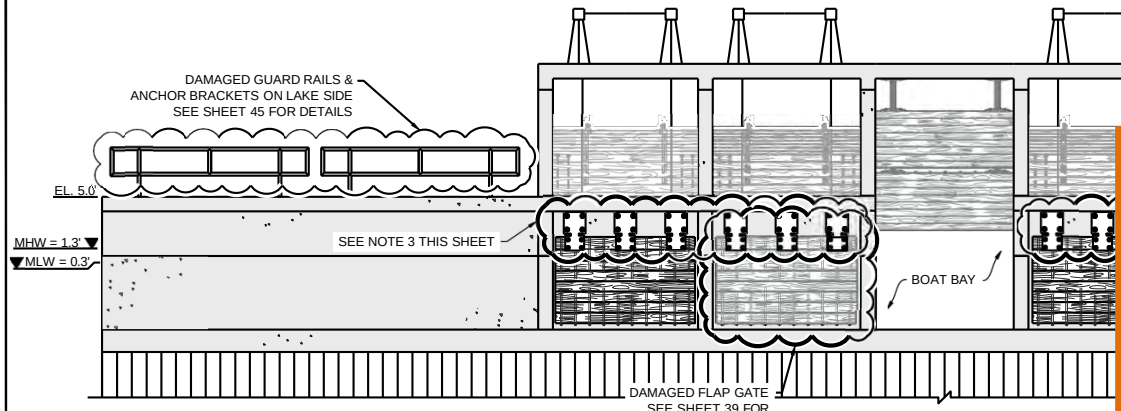
# Project (CS-04a) Storm Damage Repairs – Grand Bayou



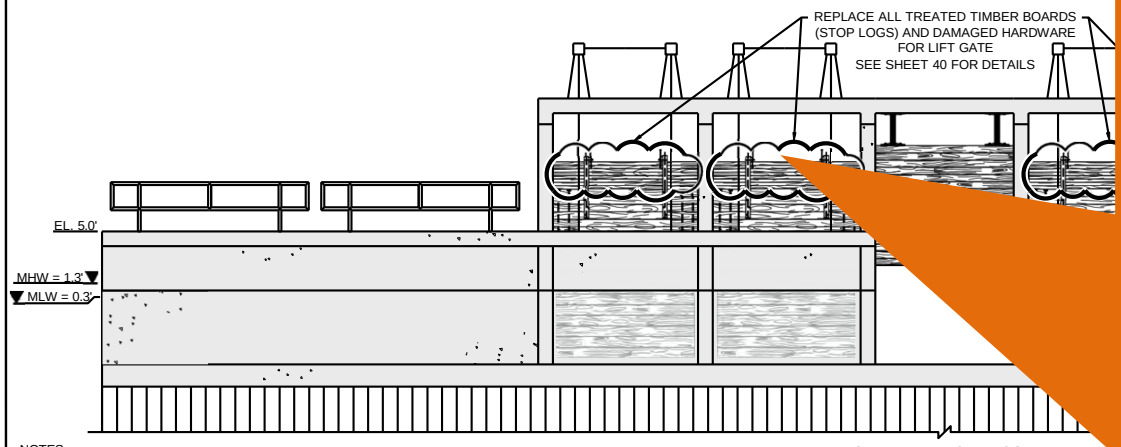
# Project (CS-04a) Storm Damage Repairs – Grand Bayou



# Project (CS-04a) Storm Damage Repairs – Grand Bayou




GRAND BAYOU WCS
LAKE SIDE VIEW
NTS




GRAND BAYOU WCS
MARSH SIDE VIEW
NTS

NOTES:

1. PROPOSED WORK ON SHEETS 23 & 24 SHOULD CONSTITUTE ALL OF THE WORK INCLUDED IN BID ITEM NO. 10 "MECHANICAL REPAIRS TO GRAND BAYOU WCS".
2. MECHANICAL REPAIRS TO GRAND BAYOU WCS SHALL BE PERFORMED IN CONFORMANCE WITH TECHNICAL SPECIFICATIONS SECTIONS TS-520 "GATES", TS-802 "FLOATING BUOYS", TS-951 "RAILING", AND TS-980 "METALS".
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4. CONTRACTOR SHALL FIELD CHECK EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO REPLACE ANY DAMAGED OR CORRODED FASTENERS AND/OR HINGES LOCATED ABOVE THE MEAN LOW WATER LINE SHOWN, WITH 316 STAINLESS STEEL FASTENERS OF EQUIVALENT SIZE AND STRENGTH OF EXISTING.
6. CONTRACTOR SHALL FIELD VERIFY THE PRE-EXISTING ANCHOR POST LOCATIONS AND SPACING DIMENSIONS FOR GUARD RAIL AND/OR FENCE ANCHORING POINTS PRIOR TO BEGINNING WORK, ORDERING AND/OR FABRICATING ITEMS, AND PREPARING SHOP DRAWINGS.

★ SEE SHEET 24 FOR BUOY INSTALLATION DETAILS

| | | |
|---|---|---|
| 5. Remove & Replace | (8) EACH | Anchor bracket for guard rail |
| 6. Replace | (6) EACH | Jim Buoy Mo. 4418 Industrial Float – Industrial floating buoys connected by steel cable |
| 7. Replace | (2) EACH | Jim Buoy Mo. 3000 Regulatory Buoy/Channel Marker w/ Concrete Buoy Anchor (steel cable connection) – Industrial floating buoys connected by steel cable |

| REV. | DATE | DESCRIPTION | BY |
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| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MECHANICAL REPAIRS TO GRAND BAYOU WCS ELEVATION VIEW

DESIGNED BY: BB
APPROVED BY: BT

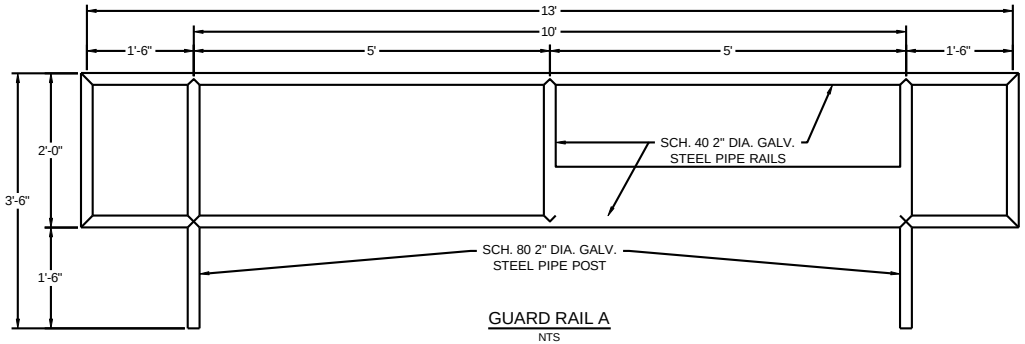
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: REC

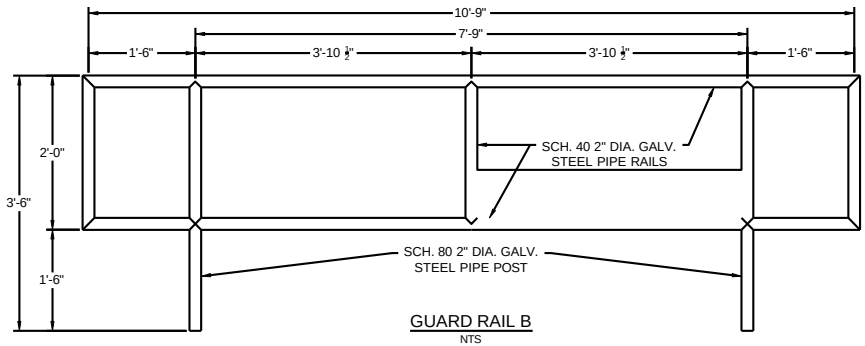
DATE: NOV. 07, 2022

SHEET 23 OF 45

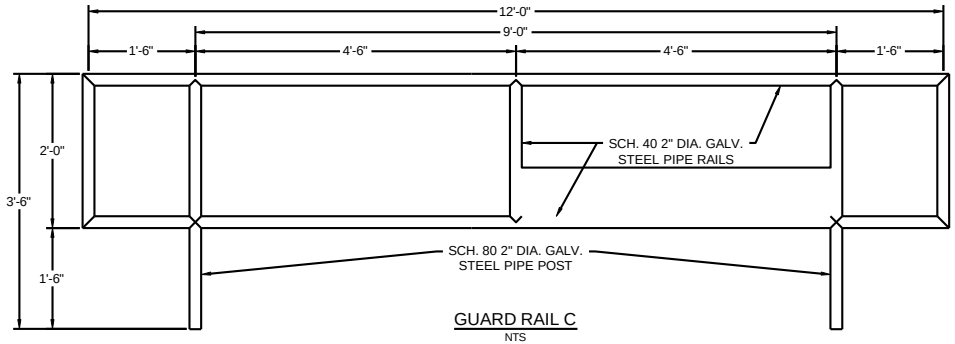
# Project (CS-04a) Storm Damage Repairs – Grand Bayou



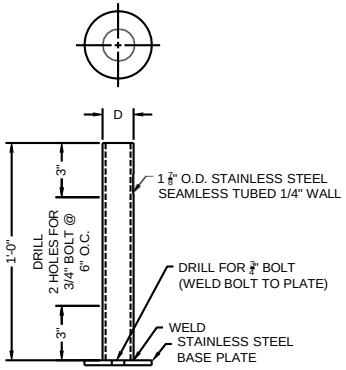

GUARD RAIL A
NTS



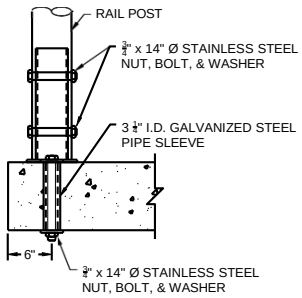

GUARD RAIL B
NTS




GUARD RAIL C
NTS




DETAIL POST ANCHOR
NTS




GUARD RAIL POST
ANCHOR ASSEMBLY
NTS

NOTE:

1. CONTRACTOR SHALL DETERMINE THE APPLICABILITY OF GUARD RAIL DETAILS A, B, AND C BASED UPON HIS/HER FIELD VERIFICATION OF THE PRE-EXISTING ANCHOR POST SPACING FOR THE SPECIFIC GAURD RAIL SECTIONS CALLED OUT FOR REPLACEMENT ON SHEETS 23, 30, AND 35.

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GUARD RAIL AND ANCHOR BRACKET DETAILS

DESIGNED BY: BB
APPROVED BY: BT

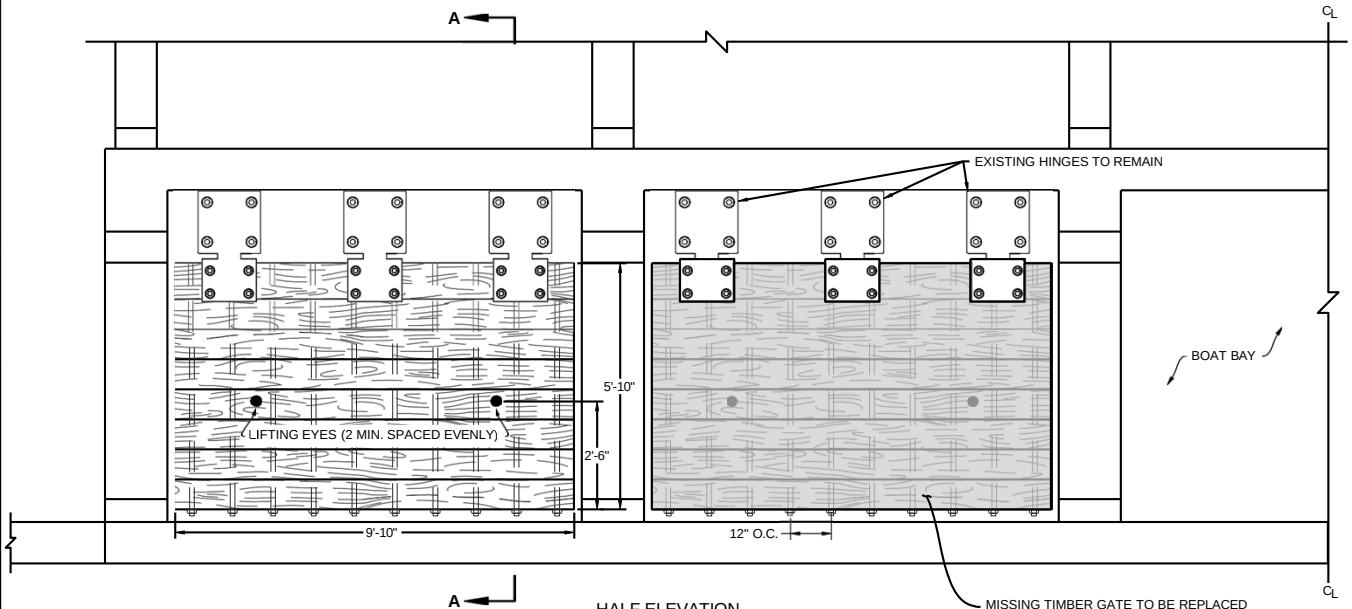
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

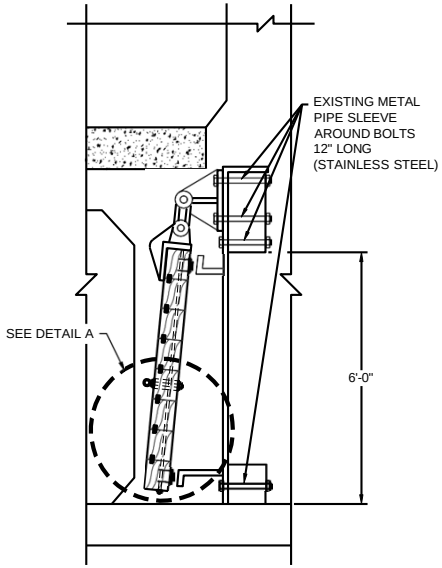
DATE: NOV. 07, 2022

SHEET 45 OF 45

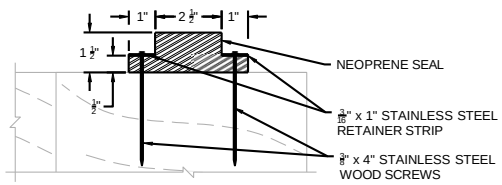
# Project (CS-04a) Storm Damage Repairs – Grand Bayou




HALF ELEVATION
LAKE SIDE
(SYMMETRICAL ABOUT CL)
NTS



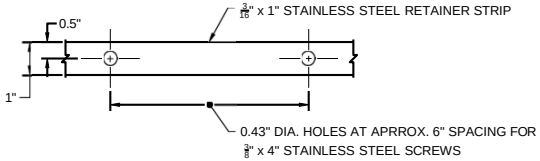

FLAP GATE - SECTION A-A
NTS



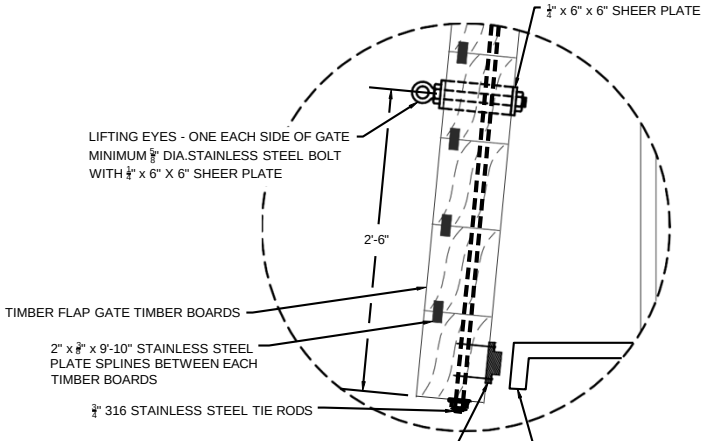

NEOPRENE SEAL AND RETAINER STRIP
NTS

NOTES:

1. ONE MISSING TIMBER GATE (2ND FROM NORTH) REPLACEMENT REQUIRED FOR STRUCTURE.
2. GATE SHALL BE RODNEY HUNT TIMBER VALVE SERIES FV-T. (EXISTING FLAP VALVE OPENING IS 108" x 60".)
3. GATE SHALL BE FABRICATED FROM SOUTHERN YELLOW PINE, STRUCTURAL 65.
4. 4 SIDES GATE OPENING TO BE ROUNDED.
5. GATE SHALL HAVE A MIN. OF TWO LIFTING EYES AS SHOWN IN DETAIL SPACED EQUALLY.
6. CONTRACTOR TO REPLACE ANY DAMAGED OR CORRODED FASTENERS WITH TYPE 316 STAINLESS STEEL FASTENERS OF EQUIVALENT SIZE AND STRENGTH OF EXISTING.
7. SEAL TO COMPLETELY ENCIRCLE THE VALVE OPENING AND FASTENED TO THE TIMBER GATE WITH 3/16" x 1" STAINLESS STEEL RETAINER STRIPS AND 3/8" x 4" STAINLESS STEEL WOOD SCREWS AT 6" SPACING.
8. TIE RODS SHALL BE 3/4" TYPE 316 STAINLESS STEEL SPACED AT 12" CENTER TO CENTER.




RETAINER STRIP
NTS




DETAIL A
NTS

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GRAND BAYOU FLAP GATE REPAIR DETAILS

DESIGNED BY: BB
APPROVED BY: BT

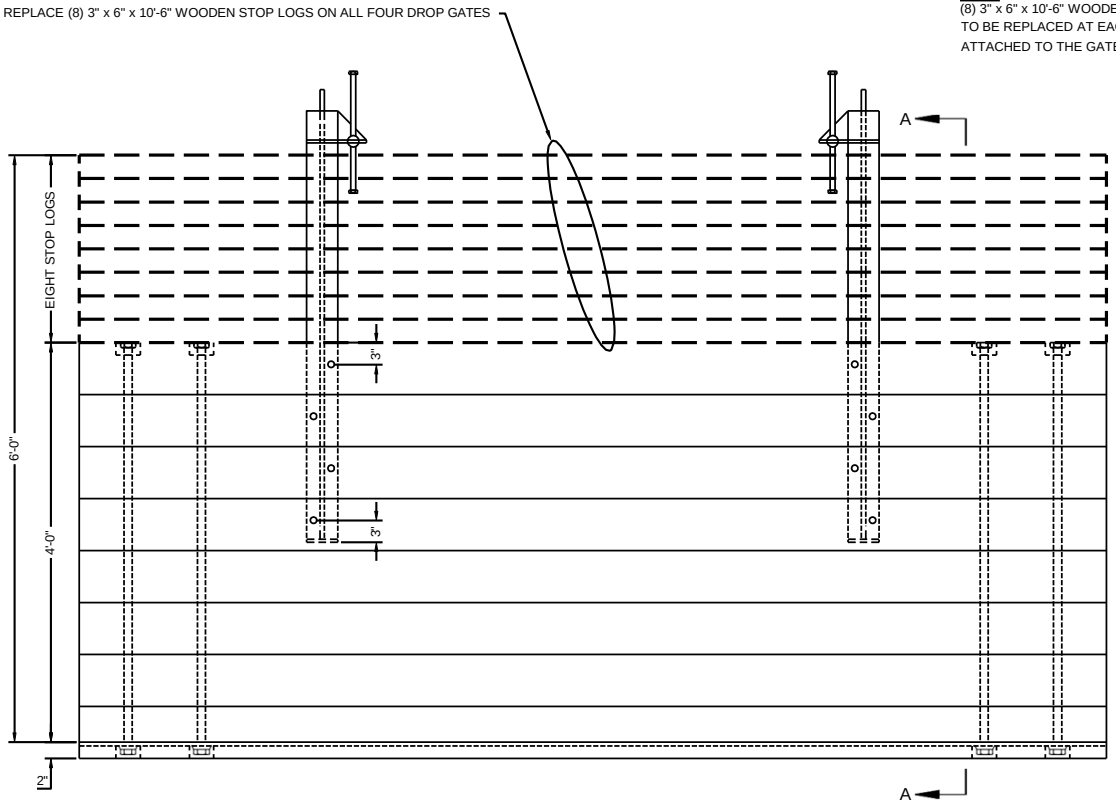
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: REC

DATE: NOV. 07, 2022

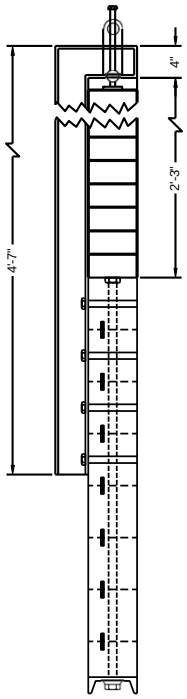
SHEET 39 OF 45

# Project (CS-04a) Storm Damage Repairs – Grand Bayou

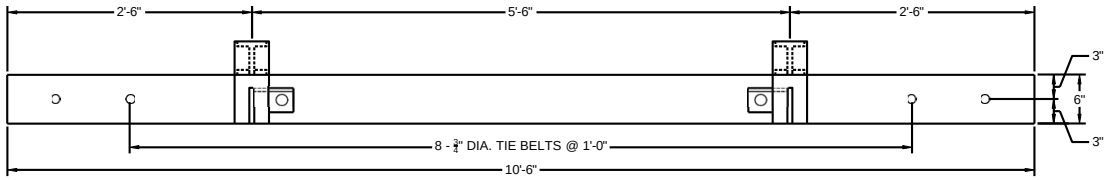



NOTE:
(8) 3" x 6" x 10'-6" WOODEN STOP LOGS, STRUCTURAL 65 WOODEN PINE TREATED TO BE REPLACED AT EACH SLUICE GATE. THESE LOGS ARE ATTACHED TO THE GATE BY SCREWING THE PRESSURE PLATE DOWN.

ELEVATION
NTS




SECTION A-A
NTS




PLAN
NTS

| REV. | DATE | DESCRIPTION | BY |
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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GRAND BAYOU SLUICE / DROP GATE REPAIR DETAILS

DESIGNED BY: BB
APPROVED BY: BT

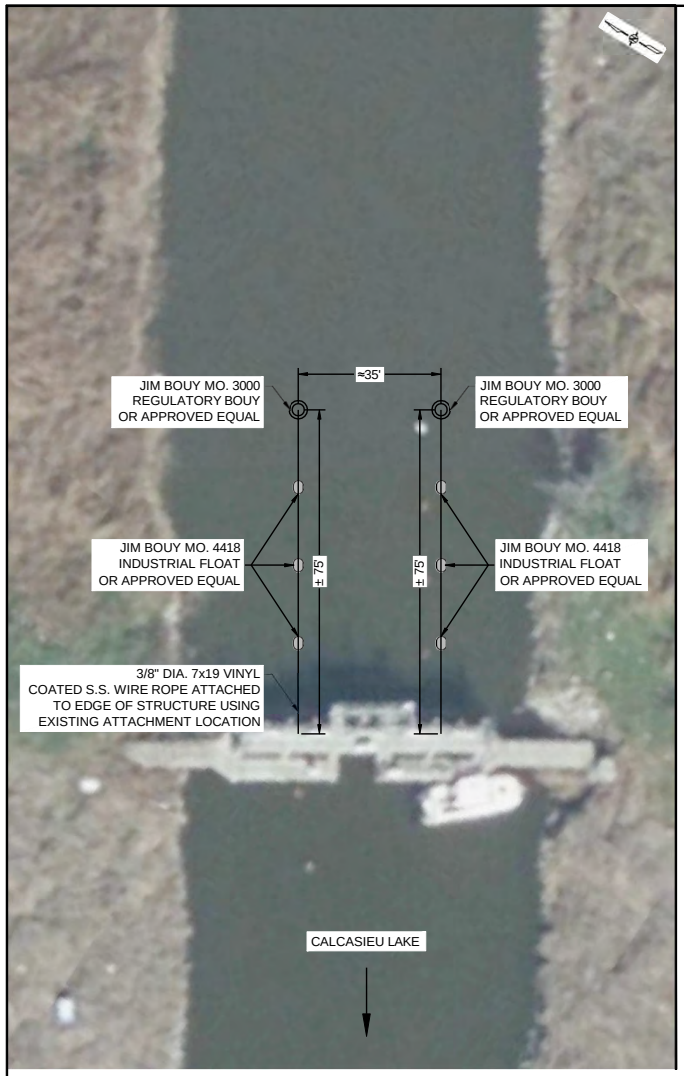
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

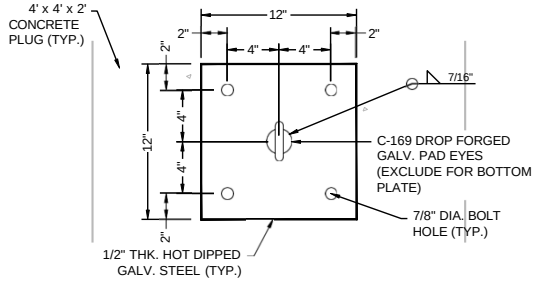
SHEET 40 OF 45

# Project (CS-04a) Storm Damage Repairs – Grand Bayou



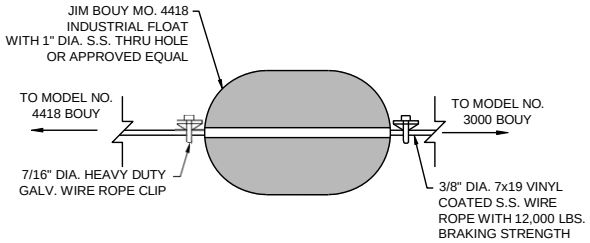

NOTES:

1. PROPOSED WORK ON SHEETS 23 & 24 SHOULD CONSTITUTE ALL OF THE WORK INCLUDED IN BID ITEM NO. 10 MECHANICAL REPAIRS TO GRAND BAYOU WCS.
2. MECHANICAL REPAIRS TO GRAND BAYOU WCS SHALL BE PREFORMED IN CONFORMANCE WITH TECHNICAL SPECIFICATIONS SECTIONS TS-520 "GATES", TS-802 "FLOATING BUOYS", TS-951 "RAILING", AND TS-980 "METALS".
3. REFER TO THE CHART TITLED "MECHANICAL REPAIRS TO GRAND BAYOU WCS" ON SHEET 23, ITEMS 6 & 7 FOR A DESCRIPTION OF THE BUOY WORK.
4. CONTRACTOR SHALL ATTEMPT TO SALVAGE PRE-EXISTING BUOY ASSEMBLY COMPONENTS IF DISCOVERED DURING WORK.



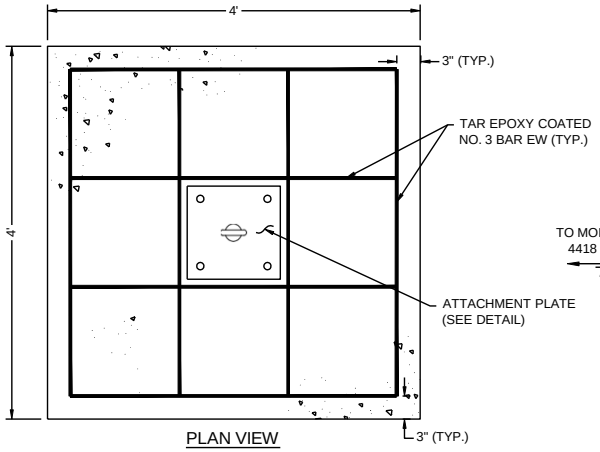

ATTACHMENT PLATE DETAIL

NTS

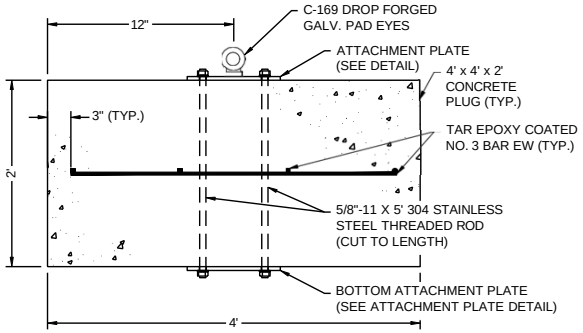



MODEL NO. 4418 BOUY ATTACHMENT DETAIL

NTS



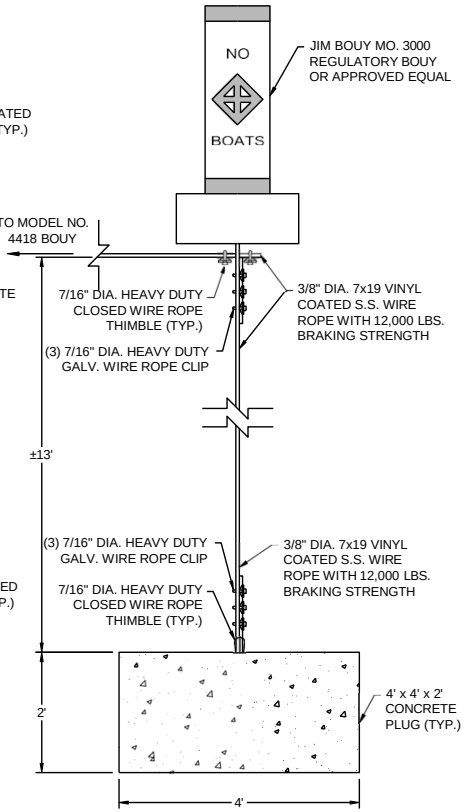

PLAN VIEW




ELEVATION VIEW

MODEL NO. 3000 BOUY ANCHOR ATTACHMENT DETAIL

NTS




MODEL NO. 3000 BOUY ATTACHMENT DETAIL

NTS

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
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ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MECHANICAL REPAIRS TO GRAND BAYOU WCS - BUOY ASSEMBLY AND REPLACEMENT

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: REC

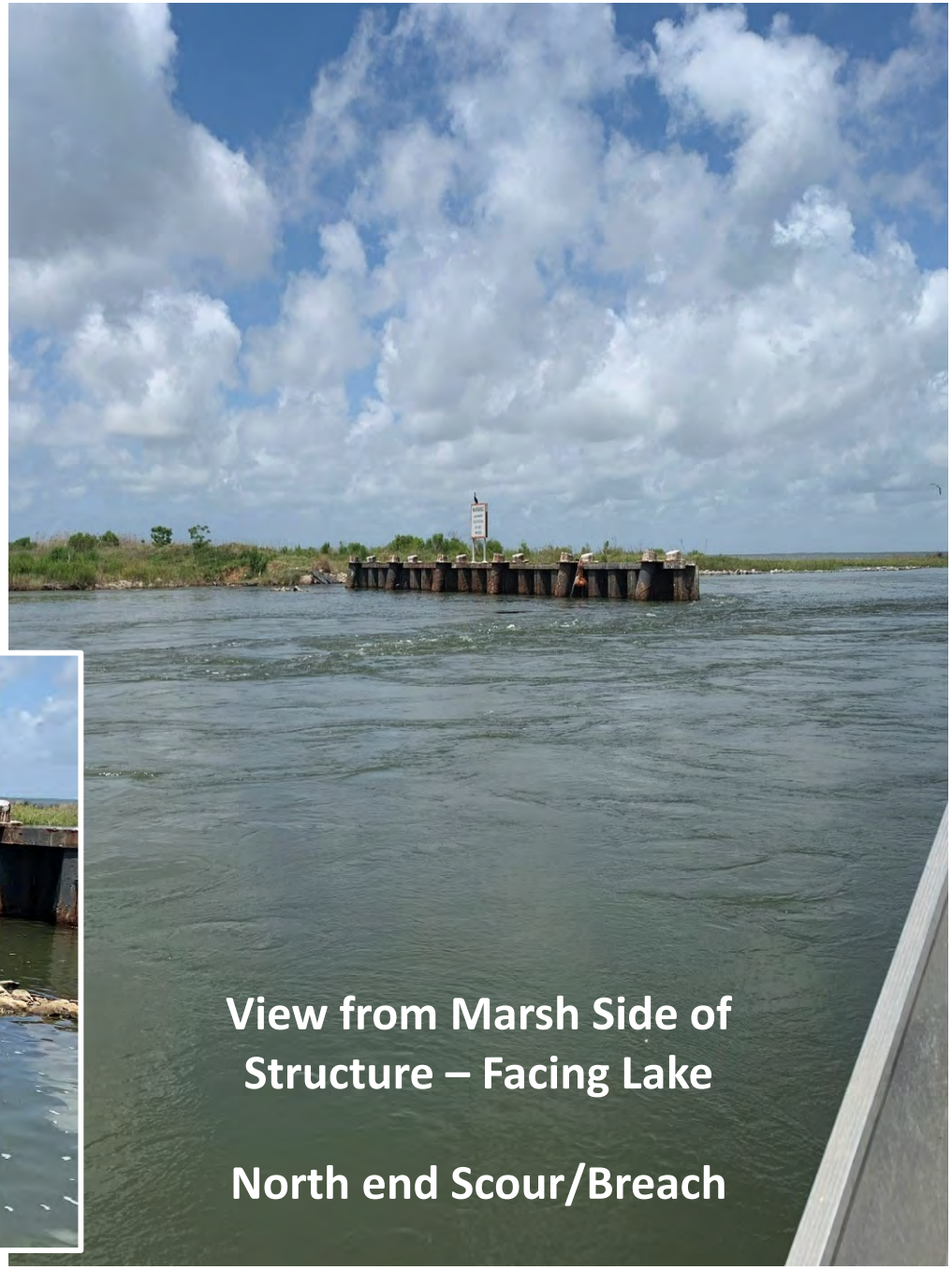
DATE: NOV. 07, 2022

SHEET 24 OF 45

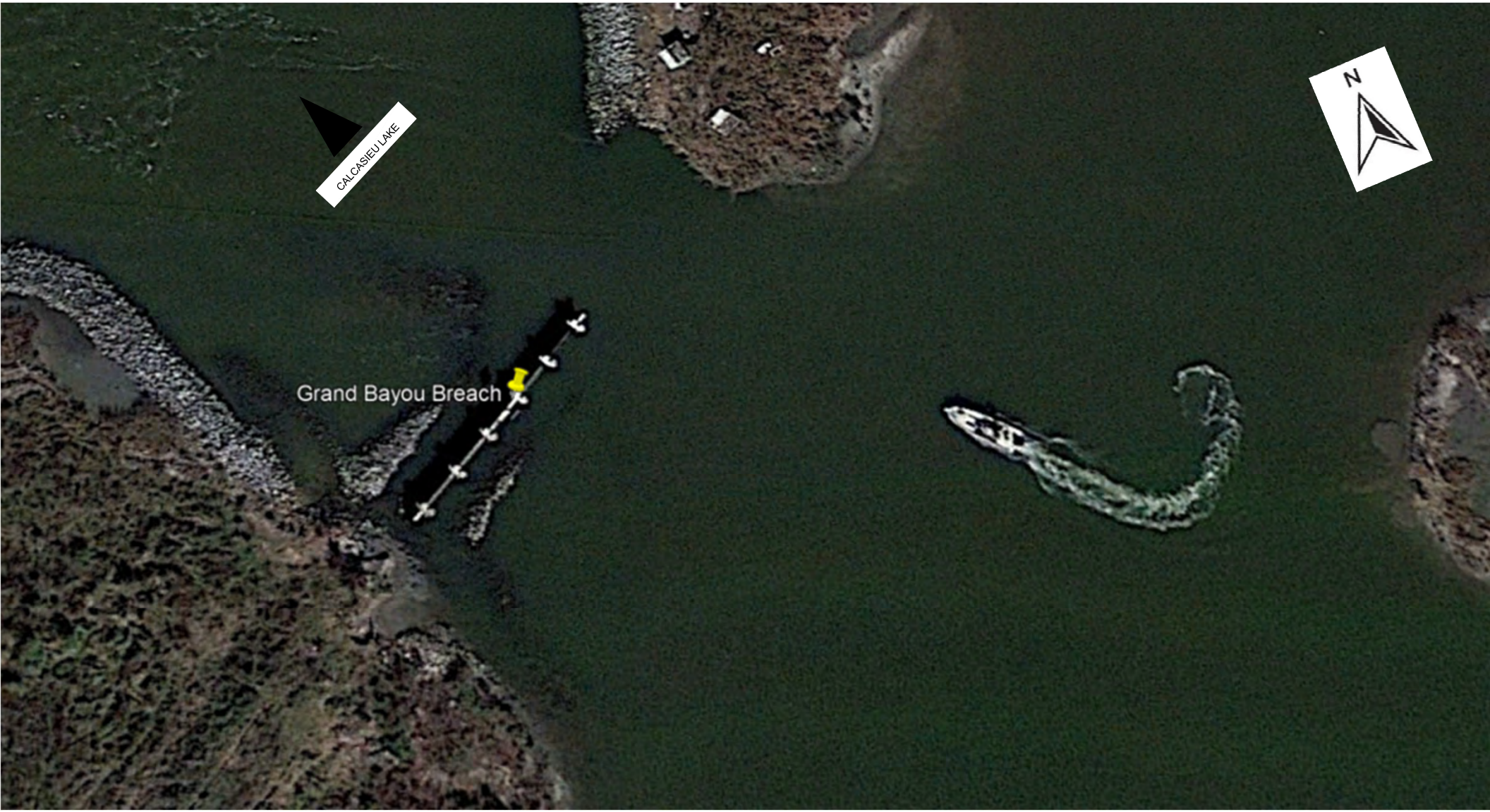
# Project (CS-04a) Storm Damage Repairs – Grand Bayou

## Levee Breach
## Sheet Pile Wall Extension

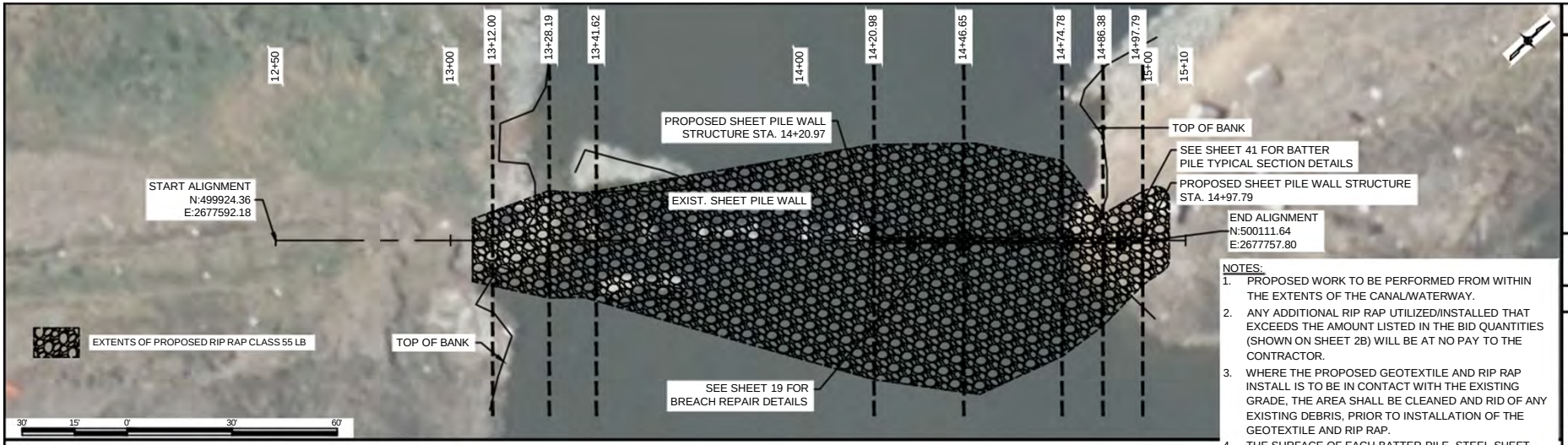
- **Re-breach of Levee at both East and West ends of sheet pile wall**
- **Displaced stone armoring**
- **Extreme water flows**



# Grand Bayou Levee Breach (Post Laura) – Google Earth Imagery

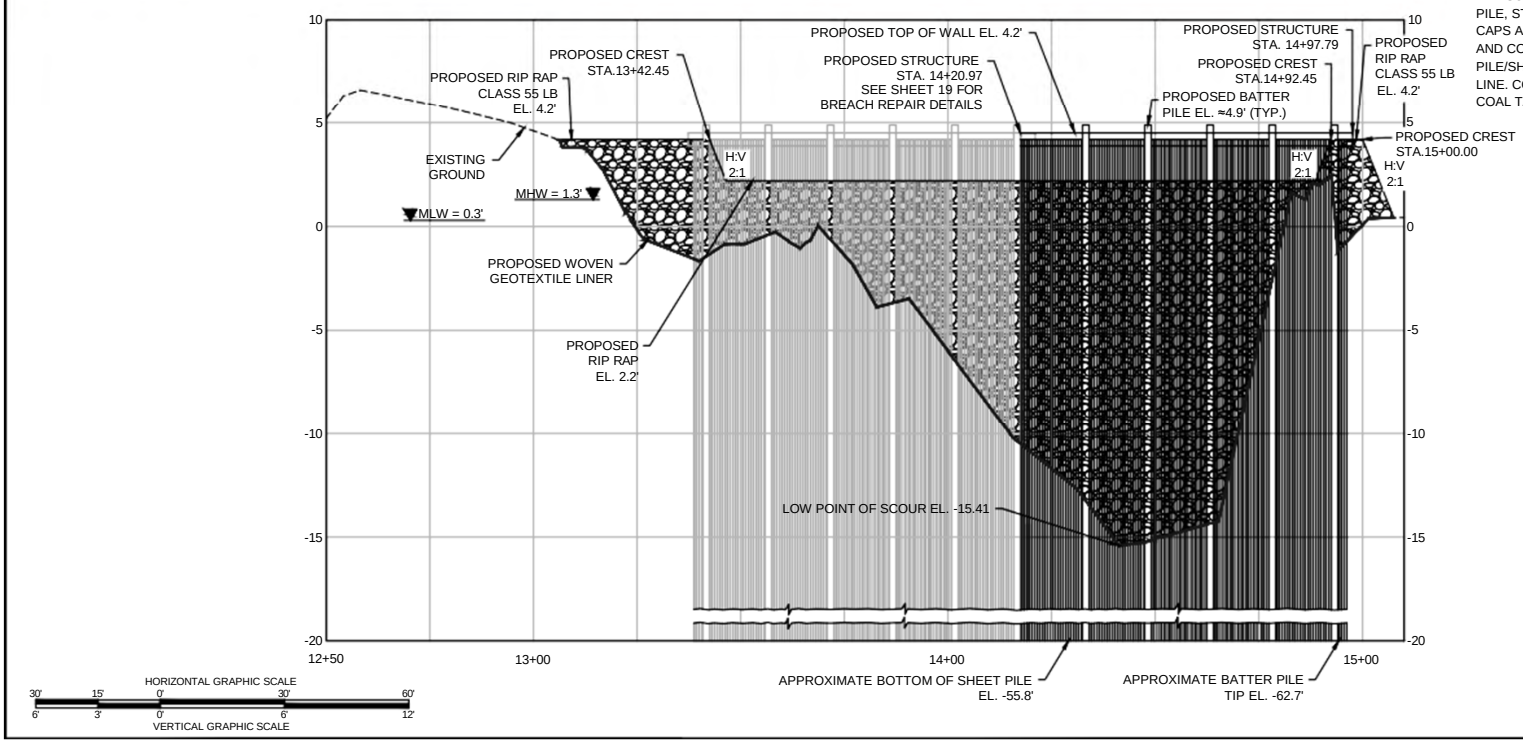


# Project (CS-04a) Storm Damage Repairs – Grand Bayou




NOTES:

1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE CANAL/WATERWAY.
2. ANY ADDITIONAL RIP RAP UTILIZED/INSTALLED THAT EXCEEDS THE AMOUNT LISTED IN THE BID QUANTITIES (SHOWN ON SHEET 2B) WILL BE AT NO PAY TO THE CONTRACTOR.
3. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.
4. THE SURFACE OF EACH BATTER PILE, STEEL SHEET PILE, STEEL W-BEAM, H-PILE, AND ALL ASSOCIATED CAPS AND CONNECTIONS SHALL BE CLEANED, PRIMED, AND COATED FROM THE TOP OF THE BATTER PILE/SHEET PILE TO A POINT 10 FEET BELOW THE MUD LINE. COATING SHALL BE APPLIED USING 2 COATS OF COAL TAR EPOXY-POLYAMIDE.

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1231 Camellia Boulevard
Lafayette, Louisiana 70508

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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED GRAND BAYOU BREACH PLAN/PROFILE

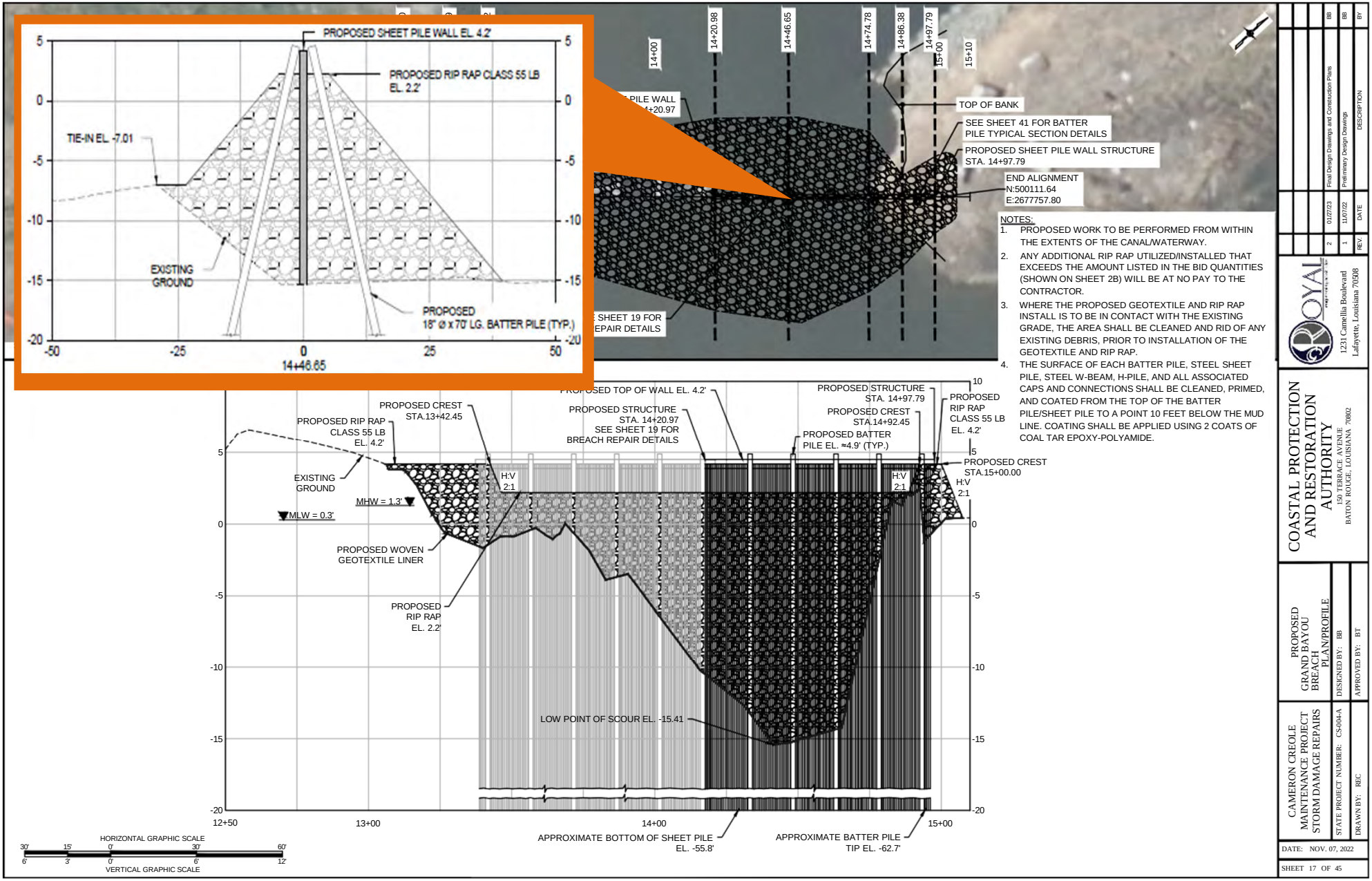
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DESIGNED BY: BB
DRAWN BY: RBC
APPROVED BY: BT

DATE: NOV. 07, 2022

SHEET 17 OF 45

# Project (CS-04a) Storm Damage Repairs – Grand Bayou



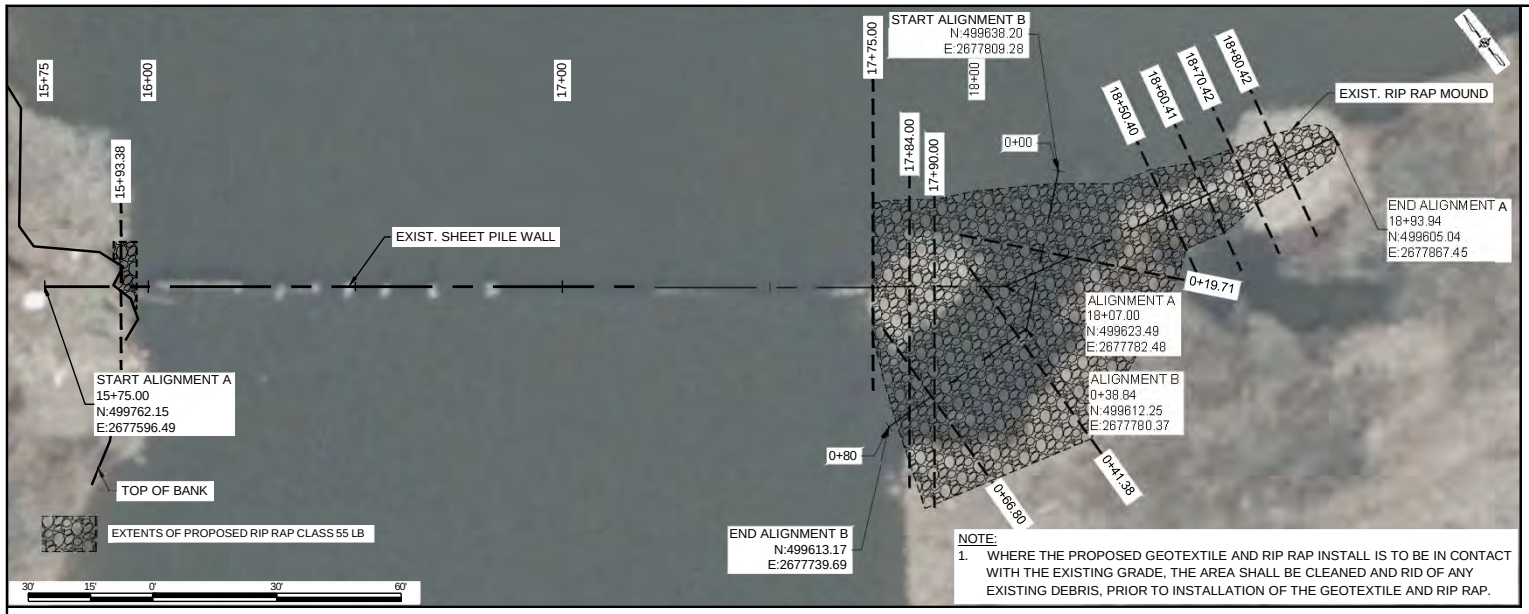
# Project (CS-04a) Storm Damage Repairs – Grand Bayou

## Interior Canal Plug Scour Repairs

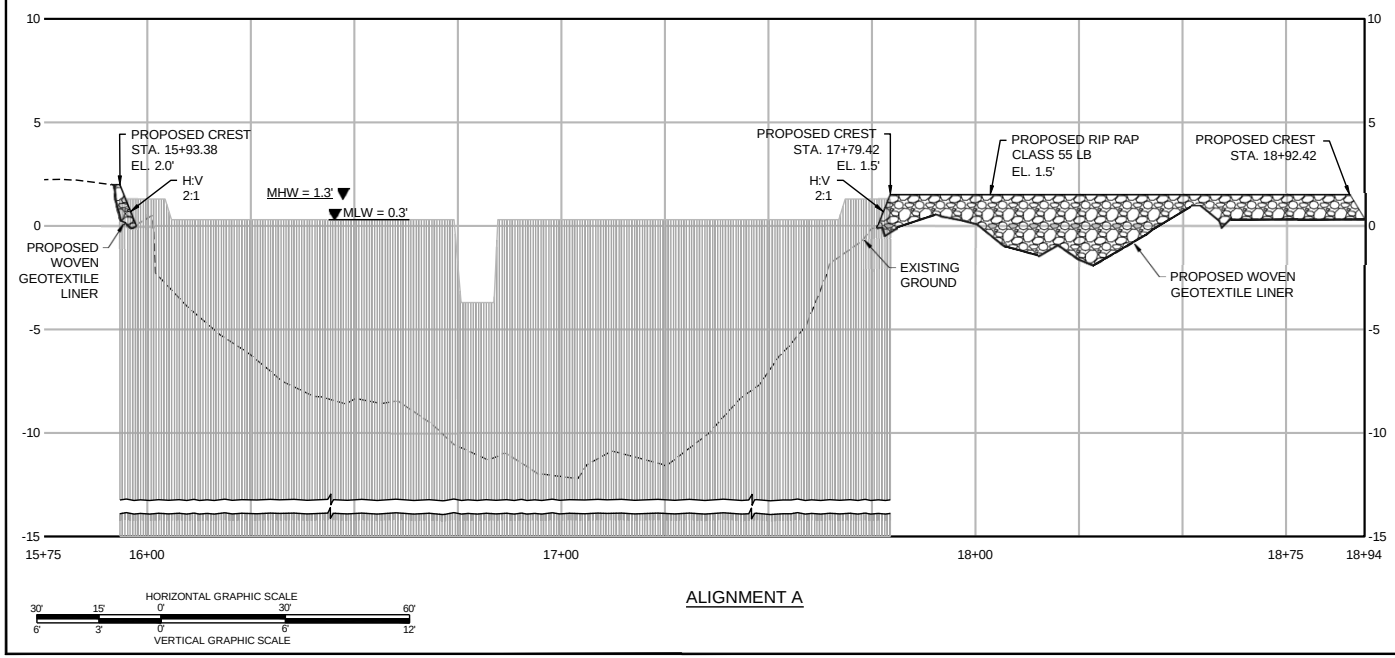
- Scouring at both ends of sheet pile plug structure
- Displacement of stone armoring

# Grand Bayou Interior Canal Plug (Post Laura) – Google Earth Imagery

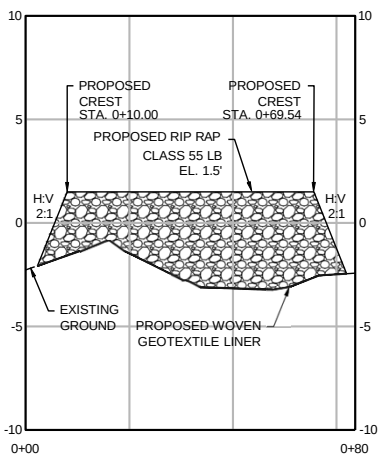
# Project (CS-04a) Storm Damage Repairs – Grand Bayou




NOTE:
1. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




ALIGNMENT A




ALIGNMENT B

| REV. | DATE | DESCRIPTION | BY |
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ROYAL
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED GRAND BAYOU PLUG PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

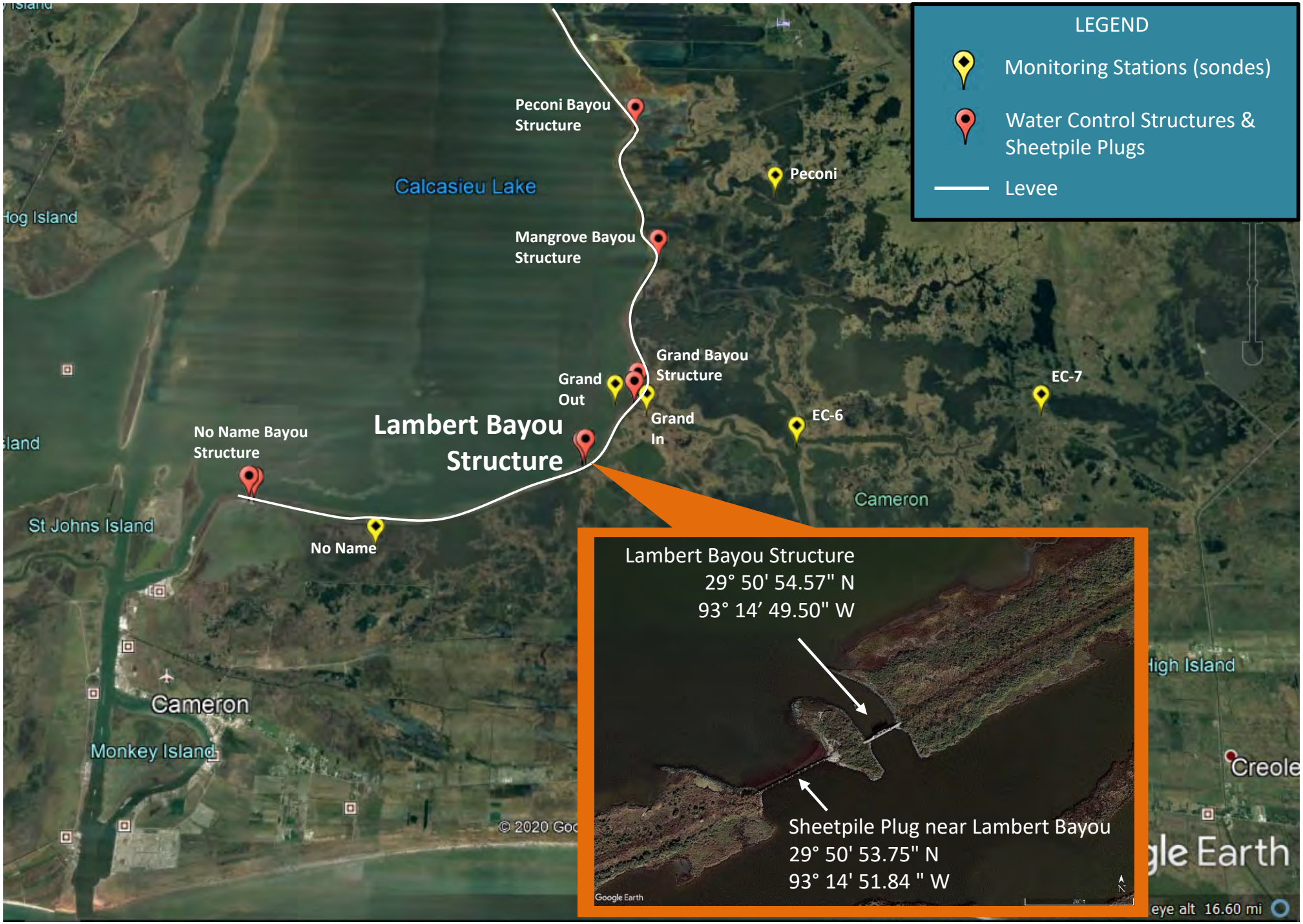
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-004-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 14 OF 45

# Project (CS-04a) Storm Damage Repairs – Lambert Bayou



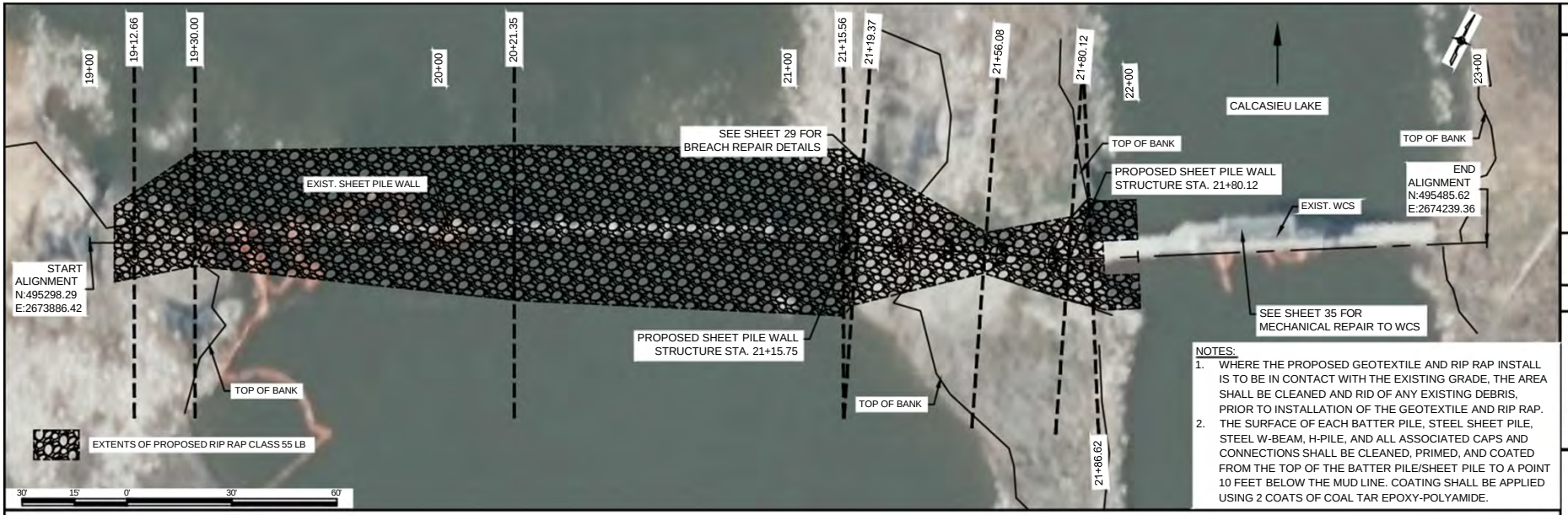
# Project (CS-04a) Storm Damage Repairs – Lambert Bayou

## Levee Breach & WCS Sheet Pile Wall Extension and Mechanical Repairs to WCS

- Major Scouring at West end of WCS and both East and West ends of sheet pile wall
- Displaced stone armoring
- Extreme water flows
- Guard rail sections (8) and anchor brackets (16)
- Stair replacement

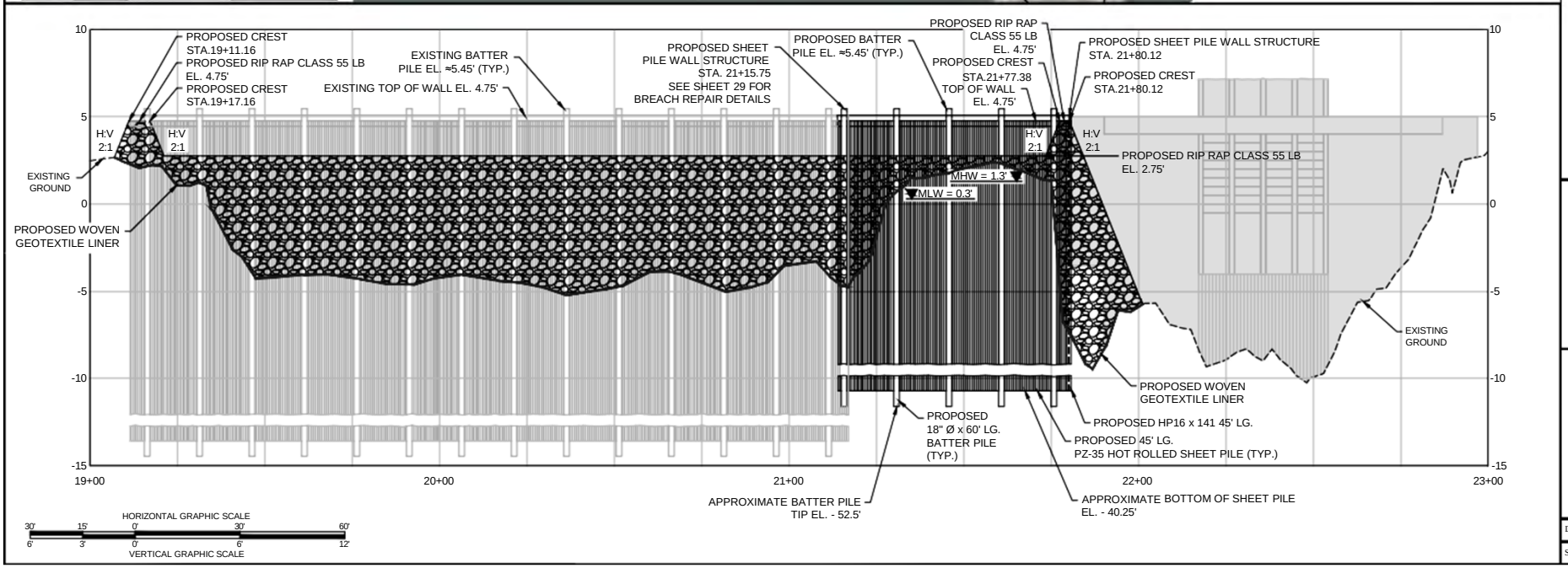
# Lambert Bayou Levee Breach & WCS (Post Laura) – Google Earth Imagery

# Project (CS-04a) Storm Damage Repairs – Lambert Bayou




NOTES:

1. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.
2. THE SURFACE OF EACH BATTER PILE, STEEL SHEET PILE, STEEL W-BEAM, H-PILE, AND ALL ASSOCIATED CAPS AND CONNECTIONS SHALL BE CLEANED, PRIMED, AND COATED FROM THE TOP OF THE BATTER PILE/SHEET PILE TO A POINT 10 FEET BELOW THE MUD LINE. COATING SHALL BE APPLIED USING 2 COATS OF COAL TAR EPOXY-POLYAMIDE.




| REV. | DATE | DESCRIPTION | BY |
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| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

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1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

LAMBERT BAYOU BREACH AND WCS PLAN/PROFILE

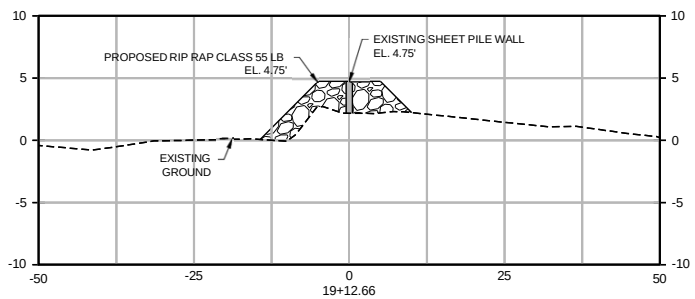
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

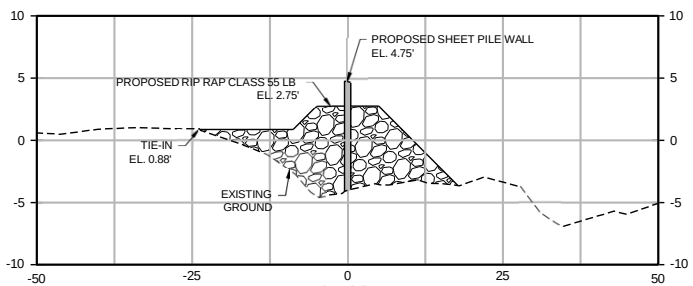
DESIGNED BY: BB
STATE PROJECT NUMBER: CS-004-A
APPROVED BY: BT
DRAWN BY: RBC

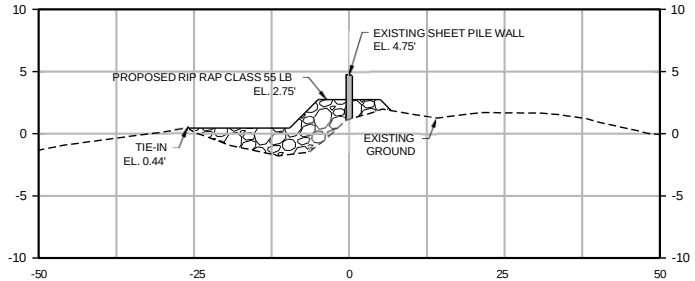
DATE: NOV. 07, 2022

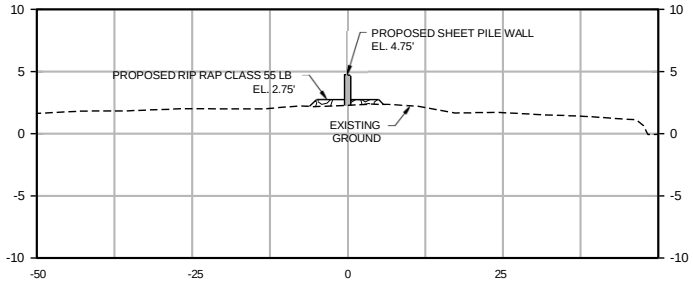
SHEET 27 OF 45

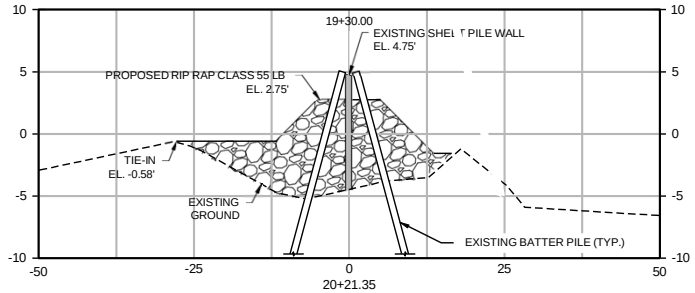
# Project (CS-04a) Storm Damage Repairs – Lambert Bayou

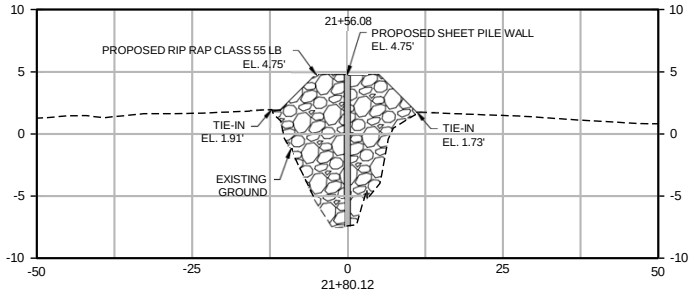


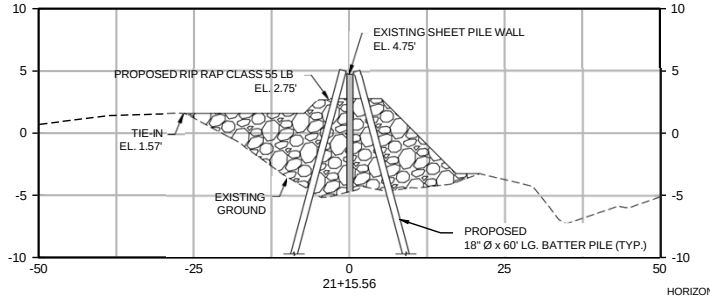



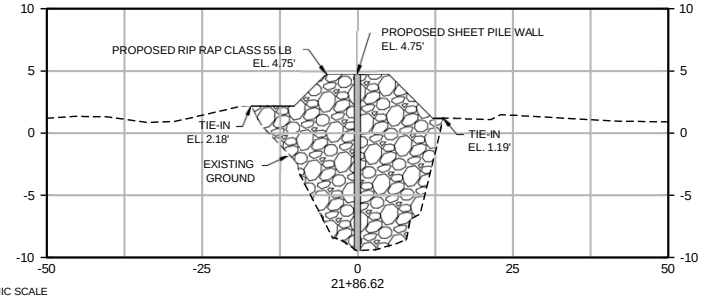




HORIZONTAL GRAPHIC SCALE

VERTICAL GRAPHIC SCALE

NOTES:

1. THE BID QUANTITY OF FILL IS BASED ON SURVEY DATA COLLECTED BY T.BAKER SMITH DURING JUNE AND JULY OF 2022. SEE SHEET 3 FOR QUANTITIES.
2. A TOP WIDTH OF 10' IS REQUIRED FOR TYPICAL RIP RAP SECTIONS UNLESS NOTED OTHERWISE.
3. WOVEN GEOTEXTILE FABRIC TO EXTEND 3' BEYOND PROPOSED FOOTPRINT OF THE RIP RAP BEFORE RIP RAP INSTALLED. NO PAY INCLUDED FOR OVERLAP OF GEOTEXTILE.
4. ELEVATION OF TIE-IN AT TOE OF ROCK WILL BE DICTATED BY SIDE-SLOPE OF ROCK UNLESS NOTED OTHERWISE.
5. EXISTING STRUCTURE ELEVATION AT 4.75'
6. SIDE-SLOPE OF RIP RAP IS 3:1 H:V UNLESS NOTED OTHERWISE.
7. MEAN HIGH WATER 1.3', MEAN LOW WATER 0.3'.
8. ALL EXISTING AND PROPOSED BATTER PILE WALL ANCHORS TO BE COMPLETELY ENCASED BY RIP RAP.
9. ANY ADDITIONAL RIP RAP UTLIZED/INSTALLED THAT EXCEEDS THE AMOUNT LISTED IN THE BID QUANTITIES (SHOWN ON SHEET 2B) WILL BE AT NO PAY TO THE CONTRACTOR.
10. CONTRACTOR SHALL PLACE RIP RAP FROM THE EXISTING AND PROPOSED SHEET PILE WALLS GOING OUTWARD TO ENSURE THAT RIP RAP IS INSTALLED COMPLETELY AROUND ALL EXISTING AND PROPOSED SETS OF BATTER PILES.
11. SECTIONS SHOWING EXISTING AND PROPOSED BATTER PILE LOCATIONS ARE APPROXIMATE ONLY. THE BATTER PILE SPACING SHOWN ON SHEET 29 SHALL TAKE PRECEDENCE IN DICTATING THE ACTUAL SPACING OF PROPOSED BATTER PILES.
12. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH AND THE TOP OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP. EXISTING GRADE THE AREA SHALL BE CLEANED

| REV. | DATE | DESCRIPTION | BY |
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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

LAMBERT BAYOU BREACH WCS CROSS SECTIONS

DESIGNED BY: BB
APPROVED BY: BT

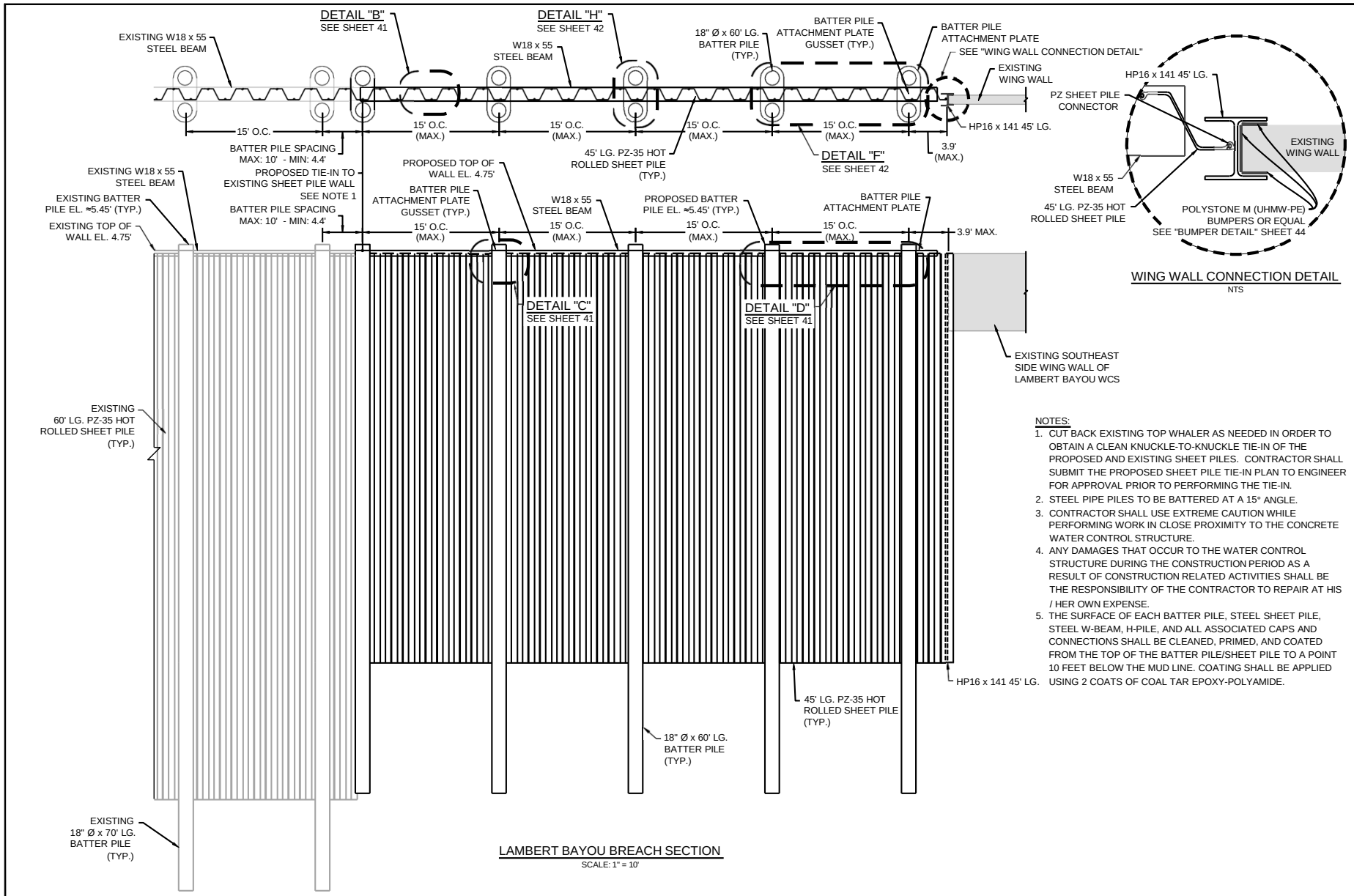
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 28 OF 45

# Project (CS-04a) Storm Damage Repairs – Lambert Bayou




NOTES:

1. CUT BACK EXISTING TOP WHALER AS NEEDED IN ORDER TO OBTAIN A CLEAN KNUCKLE-TO-KNUCKLE TIE-IN OF THE PROPOSED AND EXISTING SHEET PILES. CONTRACTOR SHALL SUBMIT THE PROPOSED SHEET PILE TIE-IN PLAN TO ENGINEER FOR APPROVAL PRIOR TO PERFORMING THE TIE-IN.
2. STEEL PIPE PILES TO BE BATTERED AT A 15° ANGLE.
3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE PERFORMING WORK IN CLOSE PROXIMITY TO THE CONCRETE WATER CONTROL STRUCTURE.
4. ANY DAMAGES THAT OCCUR TO THE WATER CONTROL STRUCTURE DURING THE CONSTRUCTION PERIOD AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS / HER OWN EXPENSE.
5. THE SURFACE OF EACH BATTER PILE, STEEL SHEET PILE, STEEL W-BEAM, H-PILE, AND ALL ASSOCIATED CAPS AND CONNECTIONS SHALL BE CLEANED, PRIMED, AND COATED FROM THE TOP OF THE BATTER PILE/SHEET PILE TO A POINT 10 FEET BELOW THE MUD LINE. COATING SHALL BE APPLIED USING 2 COATS OF COAL TAR EPOXY-POLYAMIDE.

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Dawings | BB |

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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

LAMBERT BAYOU BREACH REPAIR PLAN AND SECTION

DESIGNED BY: BB
APPROVED BY: BT

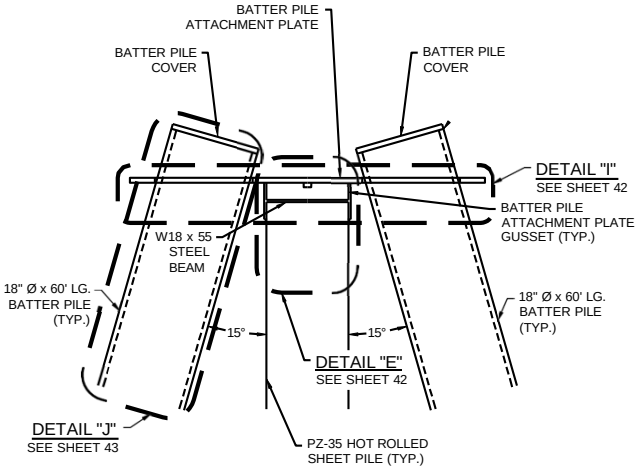
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

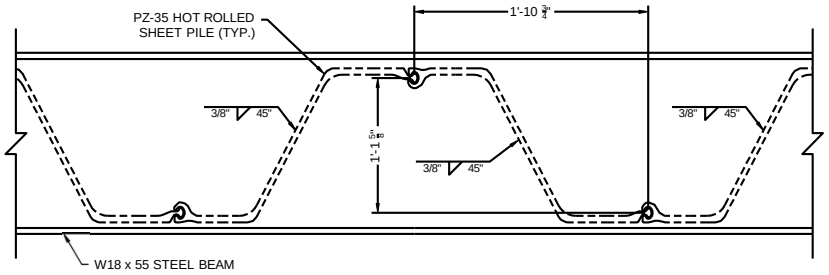
DATE: NOV. 07, 2022

SHEET 29 OF 45

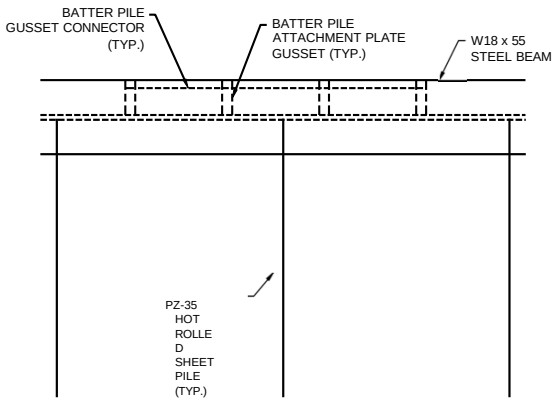
# Project (CS-04a) Storm Damage Repairs – Lambert Bayou



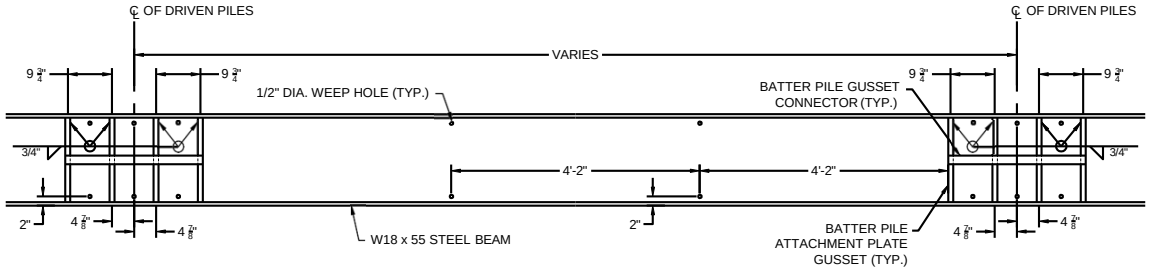

DETAIL "A"
SHEET PILE WALL ASSEMBLY DETAIL
NTS




DETAIL "B"
W18 x 55 BEAM TO SHEET PILE WALL PLAN VIEW
NTS




DETAIL "C"
W18 x 55 BEAM TO SHEET PILE ELEVATION VIEW
(BATTER PILE PLATES AND BATTER PILE HAVE BEEN OMITTED FOR CLARITY)
NTS




DETAIL "D"
W18 x 55 BEAM TO BATTER PILE PLATE GUSSET DETAIL
(SHEET PILE WALL,BATTER PILE PLATES AND BATTER PILE HAVE BEEN OMITTED FOR CLARITY)
NTS

NOTE:
1. THE SURFACE OF EACH STEEL PILE, STEEL SHEET PILE, STEEL W-BEAM, AND ALL ASSOCIATED CAPS AND CONNECTIONS SHALL BE CLEANED, PRIMED, AND COATED USING TWO (2) COATS OF COAL TAR EPOXY-
POLYAMIDE FROM THE TOP OF THE COMPONENT TO A POINT 10 FEET BELOW THE MUDLINE AND SHALL CONFORM TO ALL OTHER REQUIREMENTS SPECIFIED IN THE TECHNICAL SPECIFICATIONS SECTION TS-980.6.

| REV. | DATE | DESCRIPTION | BY |
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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

STEEL SHEET AND BATTER PILE ASSEMBLY DETAILS

DESIGNED BY: BB
APPROVED BY: BT

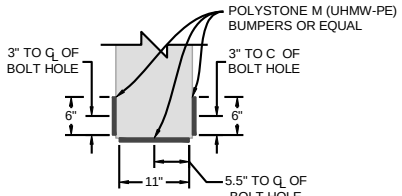
CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

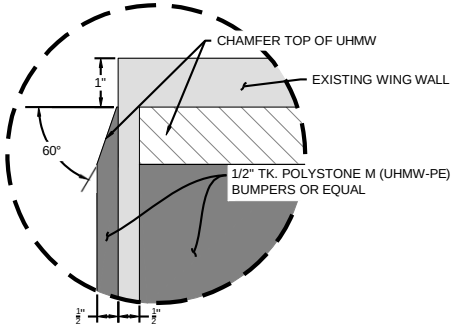
DATE: NOV. 07, 2022

SHEET 41 OF 45

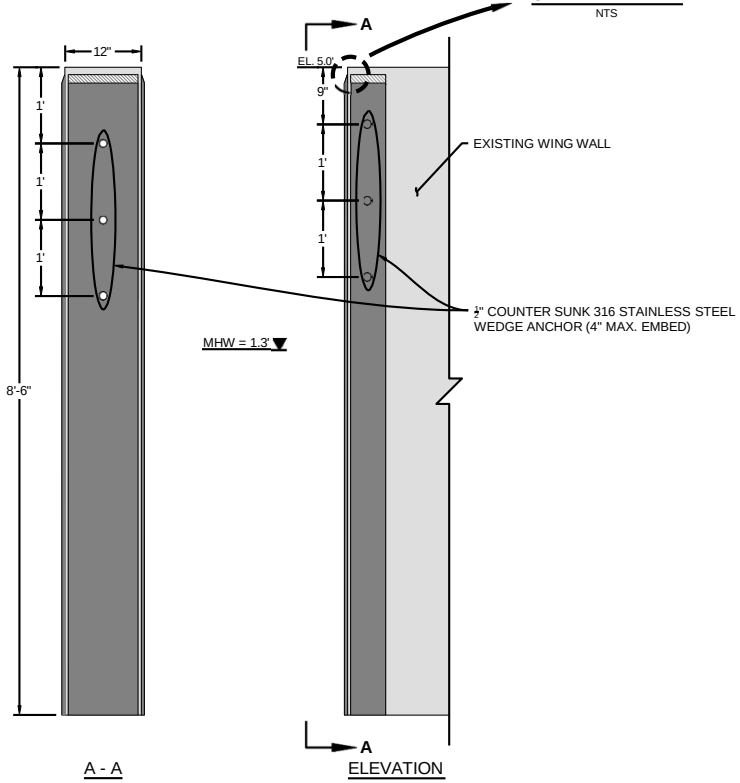
# Project (CS-04a) Storm Damage Repairs – Lambert Bayou




PLAN



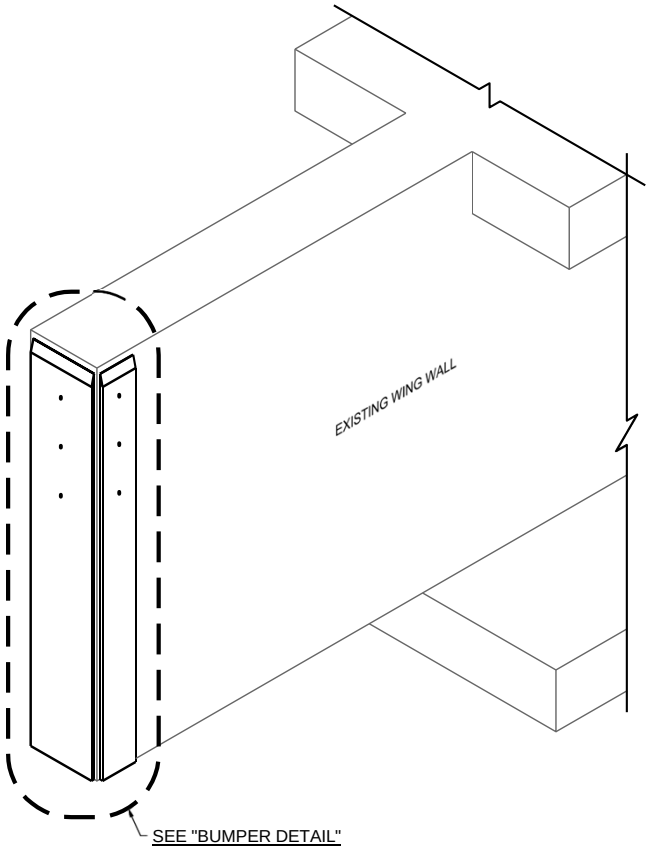

CHAMFER DETAIL
NTS




A - A

ELEVATION

BUMPER DETAIL
NTS




LAMBERT BAYOU WCS WEST-SIDE WING WALL
BUMPER ATTACHMENT ISO
NTS

| REV. | DATE | DESCRIPTION | BY |
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150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

LAMBERT BAYOU WCS WEST-SIDE BUMPER DETAIL

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

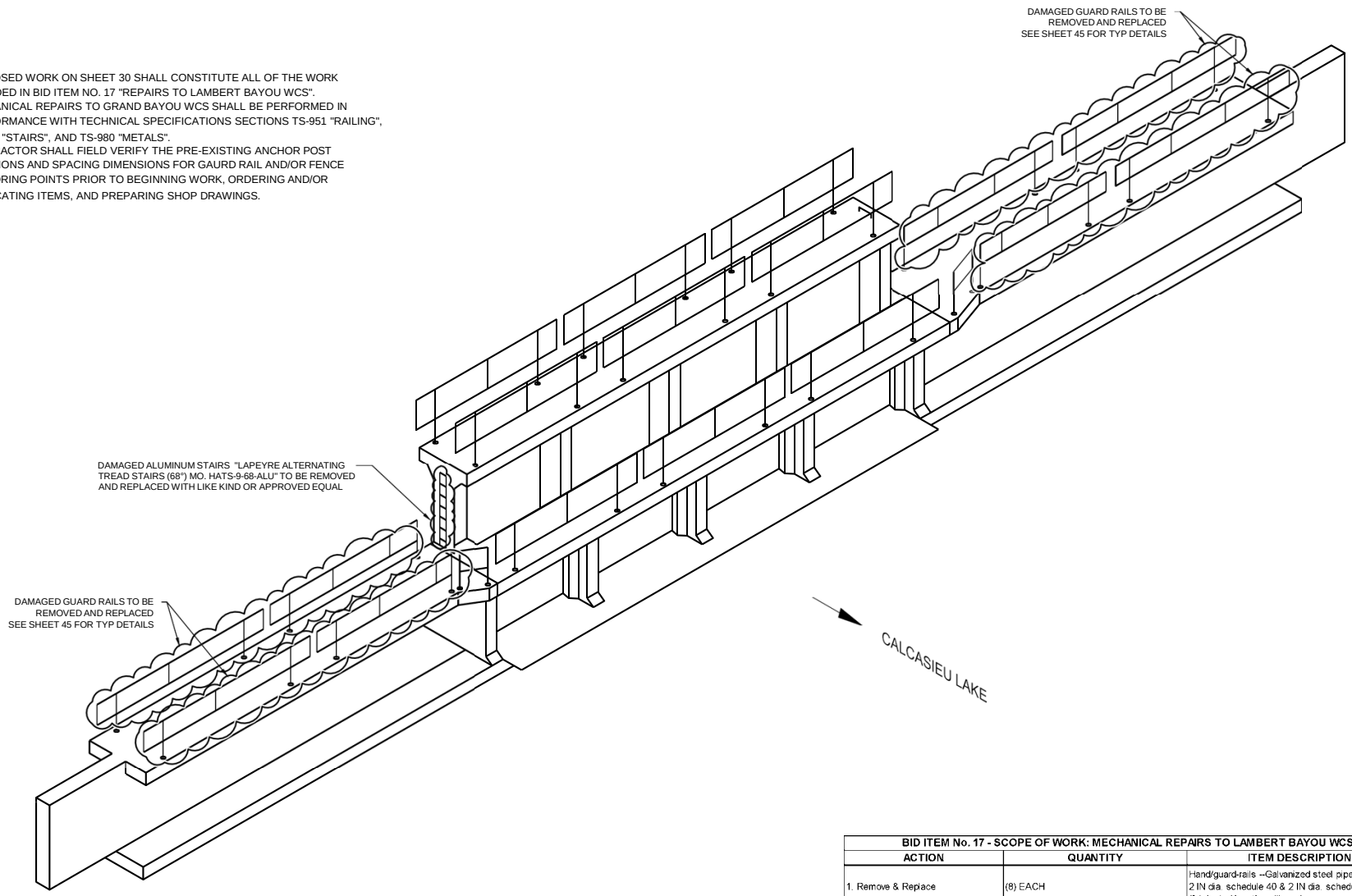
DATE: NOV. 07, 2022

SHEET 44 OF 45

# Project (CS-04a) Storm Damage Repairs – Lambert Bayou

NOTES:

1. PROPOSED WORK ON SHEET 30 SHALL CONSTITUTE ALL OF THE WORK INCLUDED IN BID ITEM NO. 17 "REPAIRS TO LAMBERT BAYOU WCS".
2. MECHANICAL REPAIRS TO GRAND BAYOU WCS SHALL BE PERFORMED IN CONFORMANCE WITH TECHNICAL SPECIFICATIONS SECTIONS TS-951 "RAILING", TS-952 "STAIRS", AND TS-980 "METALS".
3. CONTRACTOR SHALL FIELD VERIFY THE PRE-EXISTING ANCHOR POST LOCATIONS AND SPACING DIMENSIONS FOR GAURD RAIL AND/OR FENCE ANCHORING POINTS PRIOR TO BEGINNING WORK, ORDERING AND/OR FABRICATING ITEMS, AND PREPARING SHOP DRAWINGS.




| BID ITEM No. 17 - SCOPE OF WORK: MECHANICAL REPAIRS TO LAMBERT BAYOU WCS | | |
|---|---|---|
| ACTION | QUANTITY | ITEM DESCRIPTION |
| 1. Remove & Replace | (8) EACH | Hand/guard-rails --Galvanized steel pipe with posts -- 2 IN dia. schedule 40 & 2 IN dia. schedule 80 (fabricated lengths will vary) |
| 2. Remove & Replace | (16) EACH | Anchor bracket for guard rail |
| 3. Remove & Replace | (1) EACH | LAPEYRE Alternating Tread Stairs (68 Degree) OR APPROVED EQUAL -- Aluminum alternating tread stair w/ standard handrail --108 IN high |

*SEE SHEET 45 FOR GUARD RAIL AND ANCHOR BRACKET.

| REV. | DATE | DESCRIPTION | BY |
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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MECHANICAL REPAIRS TO LAMBERT BAYOU WCS

DESIGNED BY: BB
APPROVED BY: BT

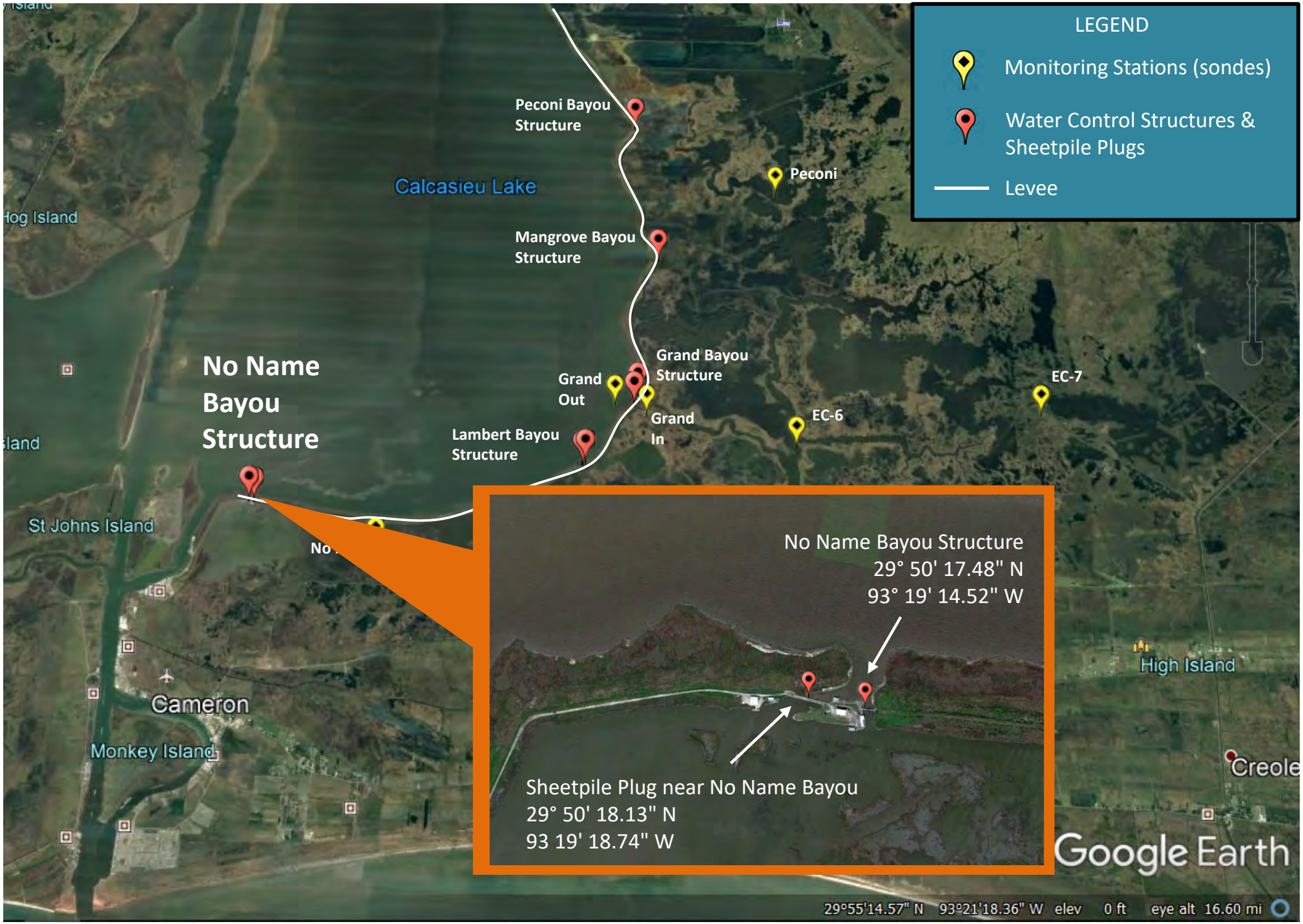
CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-004-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 30 OF 45

# Project (CS-04a) Storm Damage Repairs – No Name Bayou



# No Name Bayou WCS & Levee Breach (Post Laura) – Google Earth Imagery

# Project (CS-04a) Storm Damage Repairs – No Name Bayou

View from Marsh-side of Structure (Facing East) – Scouring at both (East & West) "Structure-to-Embankment" Tie-in Locations

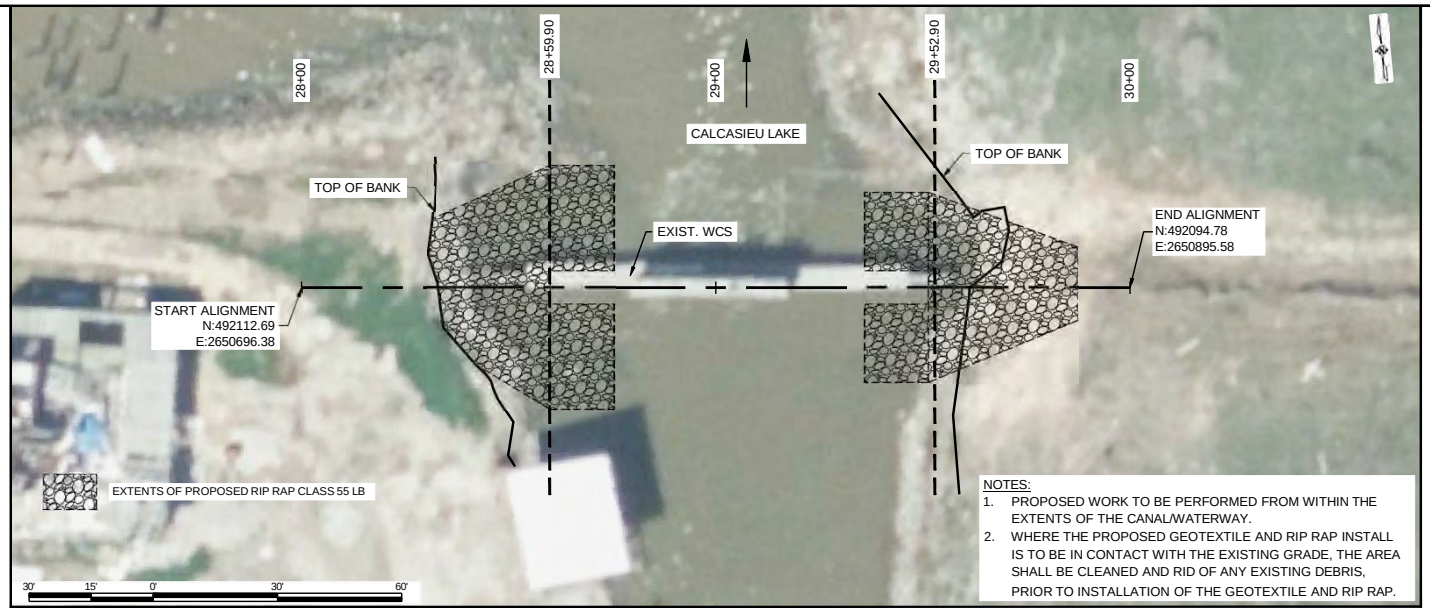
## WCS
## Scour and Mechanical Repairs

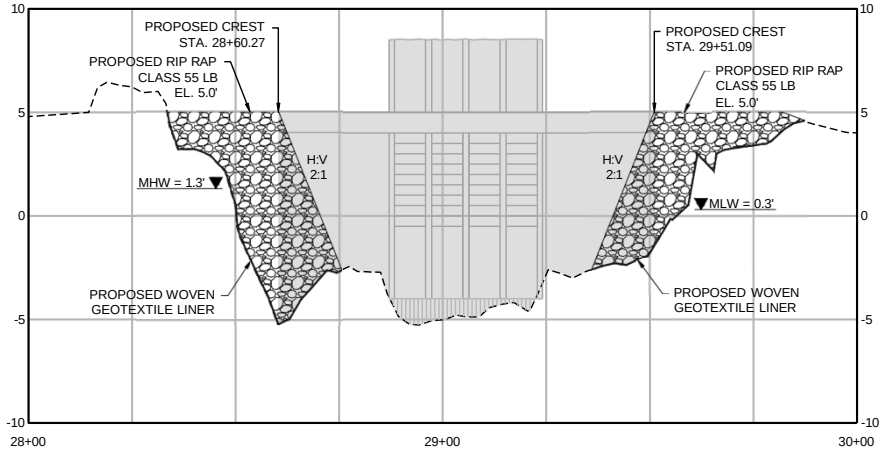
- Scouring on each end of the structure
- Displacement of stone armoring
- Guard rail sections (3) and anchor brackets (6)
- 196 LF of fencing and (1) swing gate

# Project (CS-04a) Storm Damage Repairs – No Name Bayou

## No Name Bayou WCS (Post Laura) – CPRA Drone Imagery

# Project (CS-04a) Storm Damage Repairs – No Name Bayou




HORIZONTAL GRAPHIC SCALE
30' 15' 0' 30' 60'
6' 3' 0' 6' 12'
VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
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| 1 | 11/07/22 | Preliminary Design Dawings | BB |

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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED
NO NAME BAYOU WCS
PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

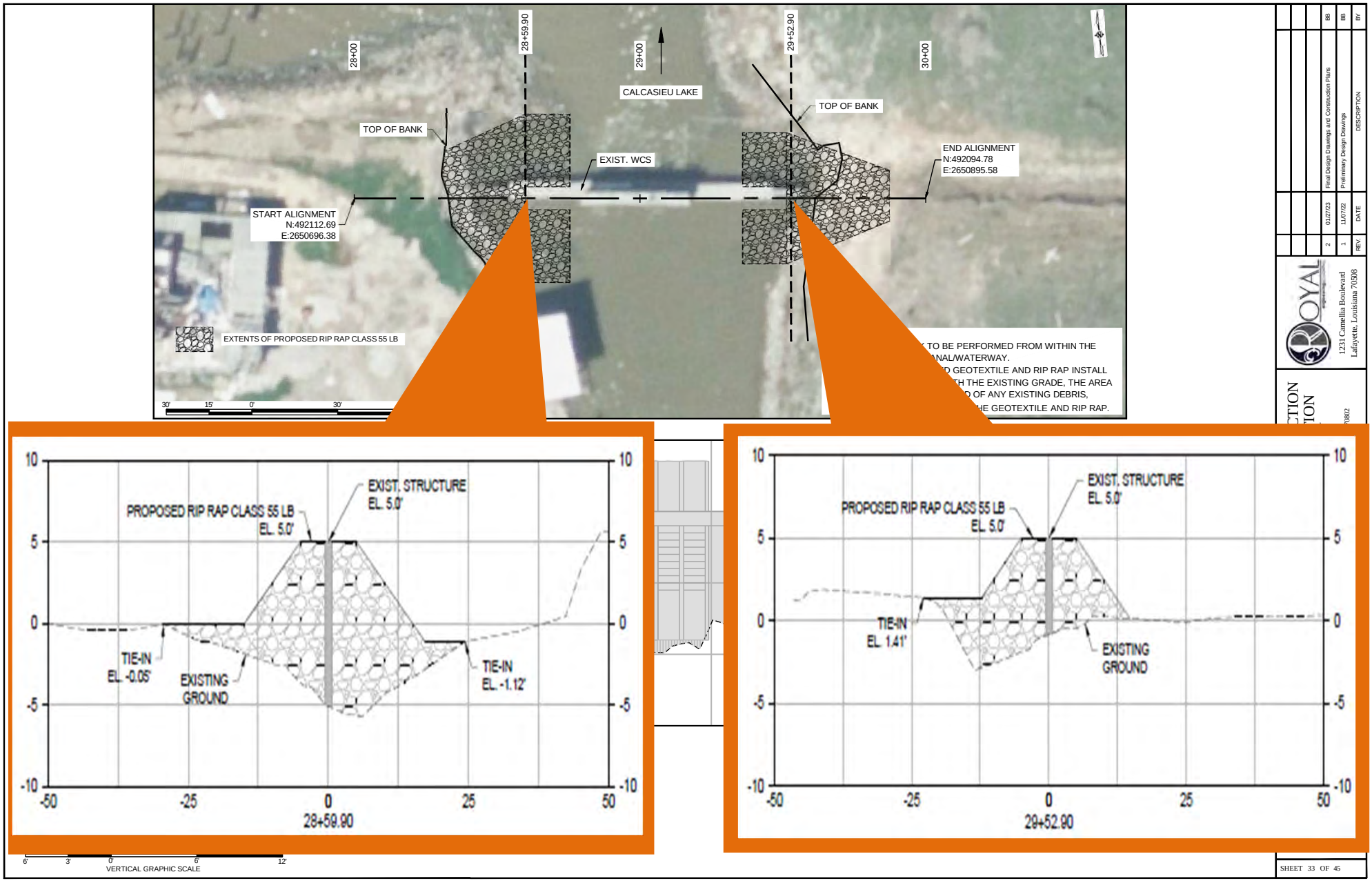
CAMERON CREOLE
MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 33 OF 45

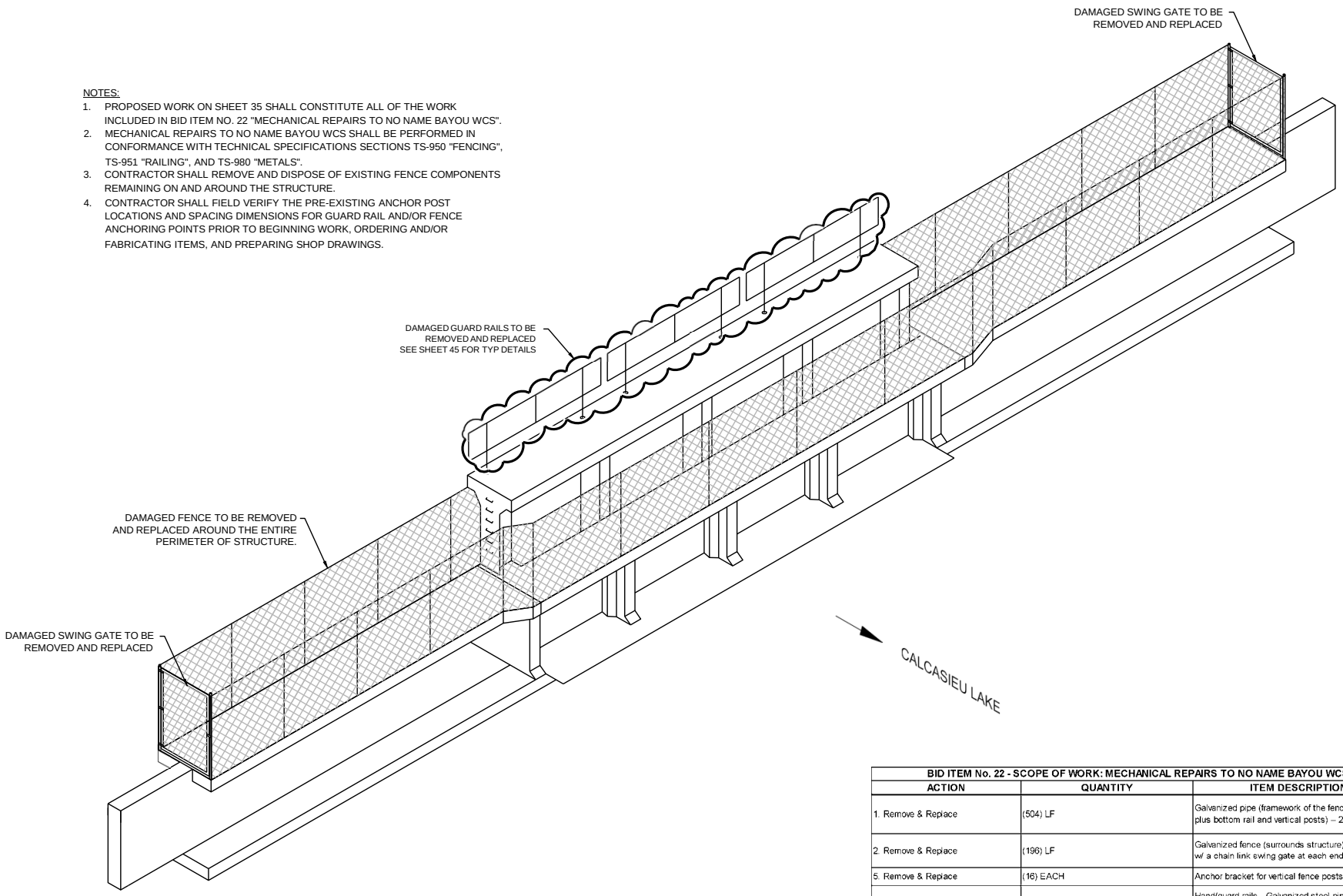
# Project (CS-04a) Storm Damage Repairs – No Name Bayou



# Project (CS-04a) Storm Damage Repairs – No Name Bayou

NOTES:

1. PROPOSED WORK ON SHEET 35 SHALL CONSTITUTE ALL OF THE WORK INCLUDED IN BID ITEM NO. 22 "MECHANICAL REPAIRS TO NO NAME BAYOU WCS".
2. MECHANICAL REPAIRS TO NO NAME BAYOU WCS SHALL BE PERFORMED IN CONFORMANCE WITH TECHNICAL SPECIFICATIONS SECTIONS TS-950 "FENCING", TS-951 "RAILING", AND TS-980 "METALS".
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING FENCE COMPONENTS REMAINING ON AND AROUND THE STRUCTURE.
4. CONTRACTOR SHALL FIELD VERIFY THE PRE-EXISTING ANCHOR POST LOCATIONS AND SPACING DIMENSIONS FOR GUARD RAIL AND/OR FENCE ANCHORING POINTS PRIOR TO BEGINNING WORK, ORDERING AND/OR FABRICATING ITEMS, AND PREPARING SHOP DRAWINGS.




| BID ITEM No. 22 - SCOPE OF WORK: MECHANICAL REPAIRS TO NO NAME BAYOU WCS | | |
|---|---|---|
| ACTION | QUANTITY | ITEM DESCRIPTION |
| 1. Remove & Replace | (504) LF | Galvanized pipe (framework of the fence including top plus bottom rail and vertical posts) – 2 IN dia. |
| 2. Remove & Replace | (196) LF | Galvanized fence (surrounds structure) -- 6 FT height w/ a chain link swing gate at each end (2 gates) |
| 5. Remove & Replace | (16) EACH | Anchor bracket for vertical fence posts |
| 4. Remove & Replace | (3) EACH | Hand/guard-rails --Galvanized steel pipe with posts -- 2 IN dia. schedule 40 & 2 IN dia. schedule 80 (fabricated lengths will vary) |
| 5. Remove & Replace | (6) EACH | Anchor bracket for guard rail |

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 2 | 01/27/23 | Final Design Drawings and Construction Plans | BB |
| 1 | 11/07/22 | Preliminary Design Drawings | BB |

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Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MECHANICAL REPAIRS TO NO NAME BAYOU WCS

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-004-A
DRAWN BY: REC

DATE: NOV. 07, 2022

SHEET 35 OF 45

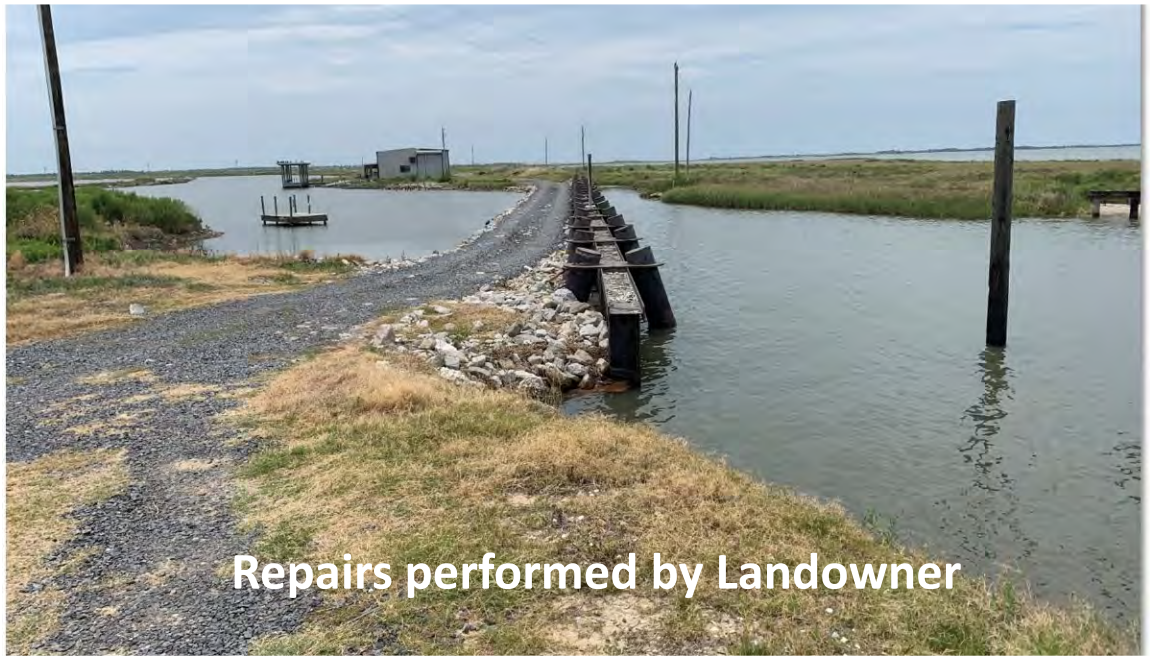
# CS-04a Cameron-Creole Maintenance – Post Hurricane Laura

## No Name Bayou Levee Breach (Post Laura) – CPRA Drone Imagery

# Project (CS-04a) Storm Damage Repairs – No Name Bayou

## Levee Breach Scour Repairs

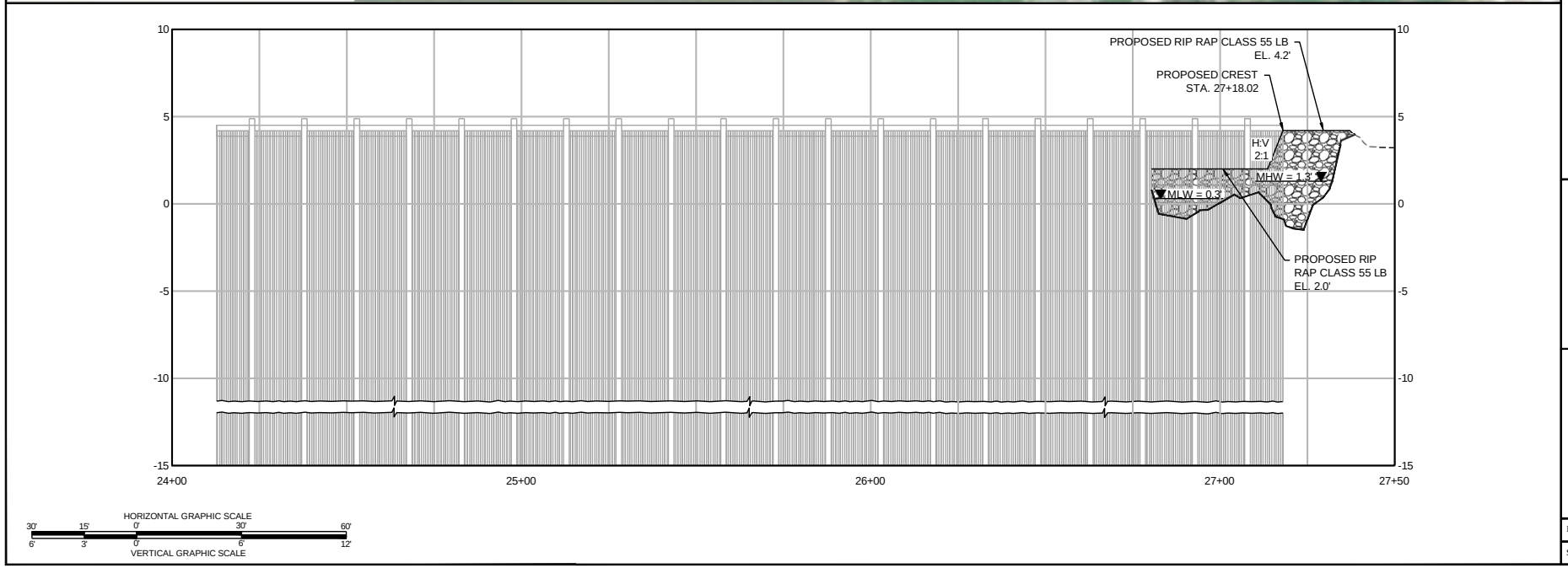
- Scouring between gravel road and structure
- Displacement of stone armoring



# Project (CS-04a) Storm Damage Repairs – No Name Bayou

NOTES:

1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE CANAL/WATERWAY.
2. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




| REV. | DATE | DESCRIPTION | BY |
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| 2 | 01/27/23 | Final Design Dawings and Construction Plans | BB |
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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED
NO NAME BAYOU BREACH
PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

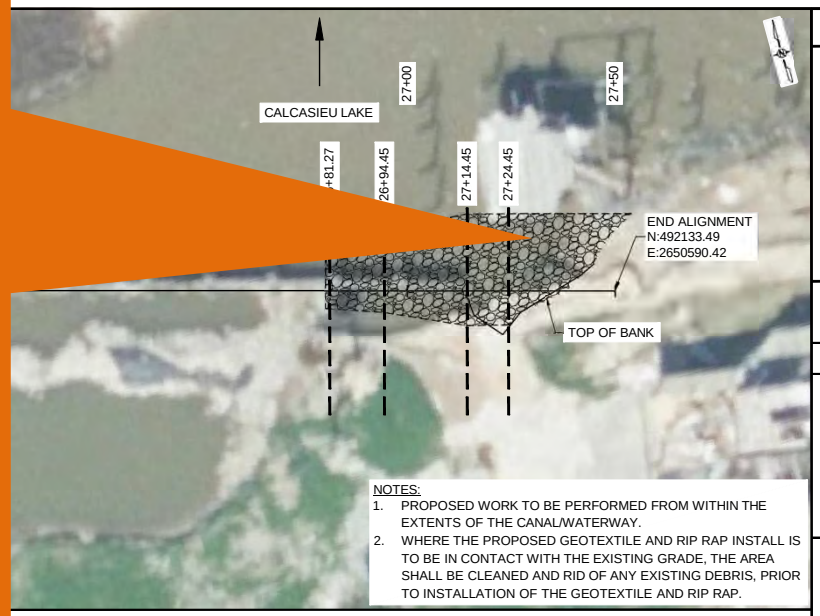
CAMERON CREOLE
MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 37 OF 45

# Project (CS-04a) Storm Damage Repairs – No Name Bayou




NOTES:
1. PROPOSED WORK TO BE PERFORMED FROM WITHIN THE EXTENTS OF THE CANAL/WATERWAY.
2. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.

HORIZONTAL GRAPHIC SCALE
30' 15' 0' 30' 60'
6' 3' 0' 6' 12'
VERTICAL GRAPHIC SCALE

| REV. | DATE | DESCRIPTION | BY |
|---|---|---|---|
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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROPOSED
NO NAME BAYOU BREACH
PLAN/PROFILE

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE
MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-04-A
DRAWN BY: RBC

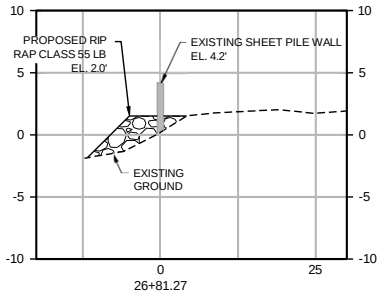
DATE: NOV. 07, 2022

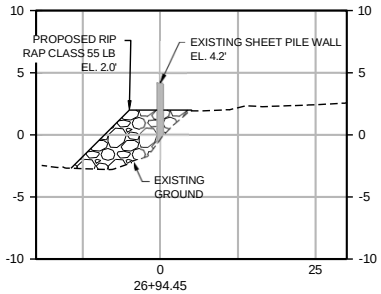
SHEET 37 OF 45

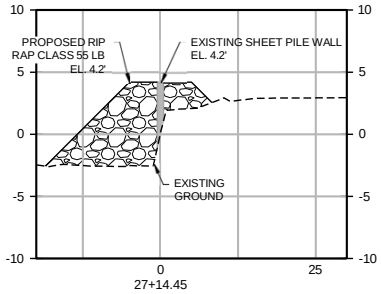
# Project (CS-04a) Storm Damage Repairs – No Name Bayou

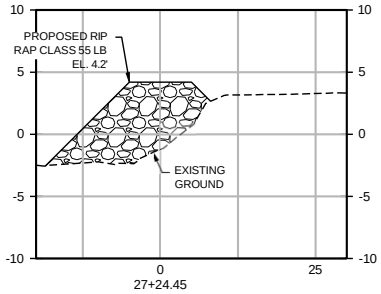
NOTES:

1. THE BID QUANTITY OF FILL IS BASED ON SURVEY DATA COLLECTED BY T.BAKER SMITH DURING JUNE AND JULY OF 2022. SEE SHEET 3 FOR QUANTITIES.
2. A TOP WIDTH OF 10' IS REQUIRED FOR TYPICAL RIP RAP SECTIONS UNLESS NOTED OTHERWISE.
3. WOVEN GEOTEXTILE FABRIC TO EXTEND 3' BEYOND PROPOSED FOOTPRINT OF THE RIP RAP BEFORE RIP RAP INSTALLED. NO PAY INCLUDED FOR OVERLAP OF GEOTEXTILE.
4. ELEVATION OF TIE-IN AT TOE OF ROCK WILL BE DICTATED BY SIDE-SLOPE OF ROCK UNLESS NOTED OTHERWISE.
5. EXISTING SHEET PILE WALL ELEVATION AT 4.2'
6. SIDE-SLOPE OF RIP RAP IS 3:1 H:V UNLESS NOTED OTHERWISE.
7. MEAN HIGH WATER 1.3', MEAN LOW WATER 0.3'.
8. WHERE THE PROPOSED GEOTEXTILE AND RIP RAP INSTALL IS TO BE IN CONTACT WITH THE EXISTING GRADE, THE AREA SHALL BE CLEANED AND RID OF ANY EXISTING DEBRIS, PRIOR TO INSTALLATION OF THE GEOTEXTILE AND RIP RAP.




HORIZONTAL GRAPHIC SCALE
20' 10' 0' 20' 40'
10' 5' 0' 10' 20'
VERTICAL GRAPHIC SCALE

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COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

NO NAME BAYOU BREACH CROSS SECTIONS

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-004-A
DRAWN BY: RBC

DATE: NOV. 07, 2022

SHEET 38 OF 45

# Bid Items for RIP RAP (TS-700) and WOVEN GEOTEXTILE (TS-601)

These Bid Items include the removal of debris and preparation of the existing grade and/or surface of the installation areas illustrated in the plans

## Bid Items 13 and 18 (TS-920) Permanent Steel Sheeting

- This Bid Item includes the whaler beam that is mounted at the top of the steel sheeting.

## Bid Items 14 and 19 (TS-921) Piles

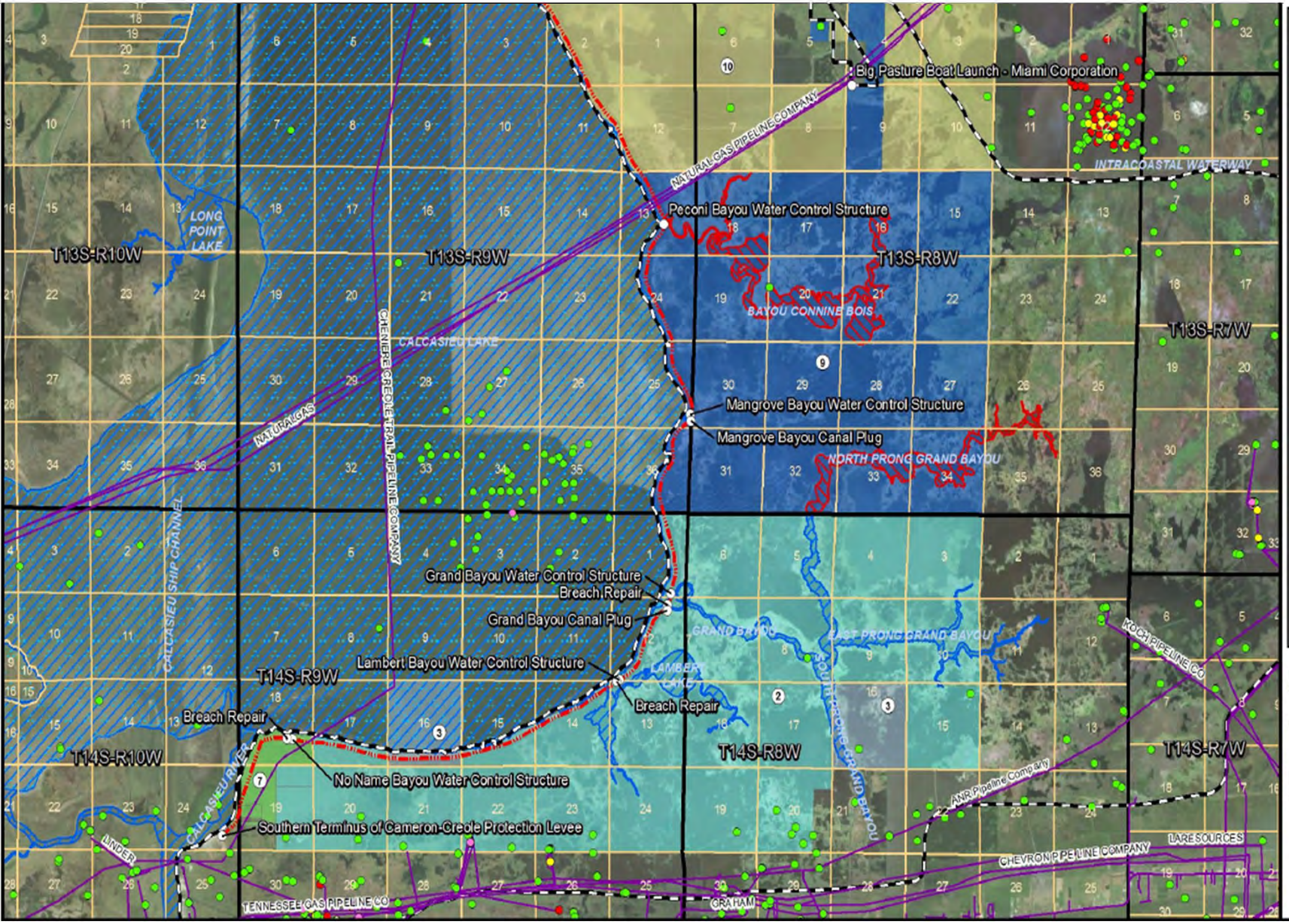
- This Bid Item includes ALL components required for connections between the batter piles, permanent steel sheeting, and concrete wingwall of the WCS, less the top whaler beam which is included with Bid Item Nos. 13 and 18.

# Project (CS-04a) Storm Damage Repairs – ADDITIONAL INFORMATION

| PRIMARY LANDOWNER'S LIST | | | |
|---|---|---|---|
| **Mangrove Bayou** | **Grand Bayou** | **Lambert Bayou** | **No Name Bayou** |
| **Miami Alternatives, LLC**<br>309 La Rue France (Suite 201)<br>Lafayette, LA 70508 | **Sabine National Wildlife Refuge**<br>3000 Holly Beach Highway<br>Hackberry, LA 70645 | **Sabine National Wildlife Refuge**<br>3000 Holly Beach Highway<br>Hackberry, LA 70645 | **McCall, Henry A. Jr.**<br>P O Box 186<br>Cameron, LA 70631 |

## Exhibit A

Cameron Creole Maintenance Project
CS-0004-A,
Cameron Parish, LA




Project Boundary
CS-0004A Maintenance Points
CS-0004-A Levee
Pipeline
Parish Boundary
Township
Section
Oyster Seed Ground

**OWNER**

1. CALCASIEU LAKE DEVELOPMENT
2. CAMERON PRAIRIE NWR
3. CAMERON SCHOOL BOARD (SEC. 16)
4. GUIDRY, RICKY W AND MICHELLE
5. MCCAIN, EDWARD TAL AND NELWYN SILLIMAN
7. MCCALL, HENRY
8. MCCAULEY, C B AND CAROLYN
9. MIAMI CORPORATION
10. NORTH AMERICAN LAND AND OIL COMPANY
11. STREAM FAMILY LIMITED PARTNERSHIP

Claimed by State & Adjoining Landowner
State-Claimed Waterbottom

**Wells**

Active Wells
Inactive Wells
Orphan Wells
Shut In Wells
Other Wells

All project features are graphical representations only, are subject to change, and may not reflect true location or dimension

Miles 0 1½ 3
Kilometers 0 1½ 3
1:100,000
N

Source: Coastal Protection and Restoration Authority of Louisiana
Imagery: ESRI World
Map Date: 4/5/2018
//2018040236

COASTAL PROTECTION AND RESTORATION AUTHORITY

CPRA

# QUESTIONS?

SUBSCRIBE

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www.coastal.la.gov

**ATTACHMENT C**

| PROJECT LOCATION CENTERS | | | | |
|---|---|---|---|---|
| **Project Feature** | **Northing** | **Easting** | **Latitude** | **Longitude** |
| **Mangrove Bayou** | | | | |
| Water Control Structure | N: 511824.95 | E: 2679481.79 | 29°53'37.2700" N | 93°13'52.5300" W |
| Interior Canal Plug | N: 511401.35 | E: 2679540.88 | 29°53'33.2300" N | 93°13'51.6100" W |
| **Grand Bayou** | | | | |
| Water Control Structure | N: 500749.15 | E: 2677937.03 | 29°51'47.5300" N | 93°14'07.8200" W |
| Interior Canal Plug | N: 499690.46 | E: 2677687.86 | 29°51'37.0100" N | 93°14'10.4499" W |
| Levee Breach | N: 500028.12 | E: 2677674.09 | 29°51'40.3500" N | 93°14'10.6700" W |
| **Lambert Bayou** | | | | |
| Water Control Structure | N: 495461.23 | E: 2674178.43 | 29°50'54.5700" N | 93°14'49.5001" W |
| Levee Breach | N: 495381.85 | E: 2673971.02 | 29°50'53.7500" N | 93°14'51.8400" W |
| **No Name Bayou** | | | | |
| Water Control Structure | N:492112.38 | E: 2650779.42 | 29°50'17.4800" N | 93°19'14.5200" W |
| Road/Levee Breach | N:492184.48 | E: 2650408.97 | 29°50'18.1300" N | 93°19'18.7400" W |

STATE OF LOUISIANA
BEAU J. TATE
License No. 30990
PROFESSIONAL ENGINEER
11/2/23

| REV. | DATE | DESCRIPTION | BY |
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ROYAL engineering consultants
1231 Camellia Boulevard
Lafayette, Louisiana 70508

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROJECT VICINITY MAP

DESIGNED BY: BB
APPROVED BY: BT

CAMERON CREOLE MAINTENANCE PROJECT
STORM DAMAGE REPAIRS

STATE PROJECT NUMBER: CS-004-A
DRAWN BY: REC

DATE: NOV. 07, 2022

SHEET 4 OF 45