



# Joint Permit Application

## For Work Within the Louisiana Coastal Zone

### What is the purpose of the Joint Permit Application?

This Joint Permit Application was developed to facilitate the state and federal permit application process administered by the Louisiana Department of Natural Resources/Coastal Management Division (CMD) and the U.S. Army Corps of Engineers (COE) for work within the Louisiana Coastal Zone.

To simplify the permit application process, the Joint Permit Application is a multi-purpose application. It may be used to apply for a Coastal Use Permit (CUP) and/or a Department of the Army Permit under Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act. This application may also be used to apply for a Solicitation of Views (SOV) or a CMD Request for Determination (RFD). Review the instructions below, then proceed to Step 1.

### Instructions

#### How do I complete the Joint Permit Application?

There are two parts to the Joint Permit Application package:

1. Joint Permit Application, and
2. Maps and Drawings.

An accurate/complete application is required for processing; inaccurate/missing information may delay processing. Follow the instructions below to complete the application. Specific instructions are provided with each Step.

- Type or print clearly using black or blue ink;
- Steps 1 through 16 must be completed; write "N/A" if information does not apply to your proposed project. It is not necessary to write "N/A" on the Steps that you have been asked to skip;
- Although you may not be required to complete each Step, it is important to check the box at the end of each Step to track your progress and ensure that no Step has been overlooked.
- When additional space is needed, include an 8½ x 11 sheet of paper identifying the Step number.

When you have questions or need assistance in completing the application package:

- Refer to the "Glossary of Terms" (See page 10.);
- Refer to "Frequently Asked Questions" (See page 12.);
- Contact the Coastal Management Division at 1-800-267-4019 or 225-342-7591; or
- Contact your local coastal parish program (See page 11.). (LCP Website)

Check this box when you have read the instructions; then proceed to Step 1.

### Step 1 of 16

Complete the following information about the applicant.

#### Who is the applicant for the proposed project?

*Note: Applicants may be either the landowner, person or company that is responsible for the proposed project.*

<b>Applicant/Company Name:</b>	OCPR - Office of Coastal Protection and Restoration <small>Individual Person or Corporation/Company</small>		
<b>Mailing Address:</b>	450 Laurel Street, Suite 1200 <small>Street Address or P.O. Box</small>		
	Baton Rouge	LA	70801
	<small>City</small>	<small>State</small>	<small>Zip</small>
<b>Contact Information:</b>	Robert G. Routon P.E.      routon@la.gov		
	<small>Name of Contact Person (not the agent)      E-Mail Address</small>		
	(225 ) 342-7308	(225 ) 342-5625	
	<small>Area Code    Daytime Telephone Number</small>	<small>Area Code    Fax Number</small>	

Check this box when you have completed Step 1; then proceed to Step 2.

**Joint Permit Application** *Continued (page 2 of 12)*

**Step 2 of 16**

**Is an agent being used for the proposed project?**

*Note: An agent is not required.*

Is an agent being used for the proposed project?

- NO (If NO, proceed to Step 3.)
- YES (If YES, complete the following information.)

**Agent Company Name:** Shaw Environmental & Infrastructure Group  
Corporation/Company

**Mailing Address:** One Shell Square 701 Poydras Street, Suite 1400  
Street Address or P.O. Box  
New Orleans LA 70139  
City State Zip

**Contact Information:** Charlie Hess charlie.hess@shawgrp.com  
Name of Contact Person E-Mail Address  
(504) 595-2563 (504) 595-2717  
Area Code Daytime Telephone Number Area Code Fax Number

**Check this box when you have completed Step 2; then proceed to Step 3.**

**Step 3 of 16**

**What type of permit or action would you like to request?**

*Note: You may need the approval of other federal, state or local agencies for your project.*

*Note: For questions concerning the CUP, SOV or RFD, call CMD at:  
• 1-800-267-4019  
or  
• 225-342-7591*

Check  the appropriate box(es) to indicate the type of permit or action that you would like to request.

- Coastal Use Permit (CUP), Clean Water Act Permit (Section 404), Rivers and Harbors Act (Section 10)**  
The purpose of the CUP is to ensure that any activity affecting the Coastal Zone is completed in a manner that is consistent with the Louisiana Coastal Resource Program.  
The purpose of the Department of the Army permit program under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act is to review and evaluate proposals for dredging, filling, and/or placement of structures in waterways and wetlands in order to determine whether a permit should be granted or denied based on expected impacts to the overall public interest.
- Solicitation of Views (SOV)**  
If you wish to find out if your project is in the Coastal Zone or if you wish to determine if there are special features of the area that may impact your project design or the length of time it might take to obtain a permit, you may request a SOV. No application fee is assessed for SOV requests. The following Steps must be completed to obtain an informal determination.
  - Step 1, Step 2, Step 6, Step 14, Step 16; and
  - Step 13 - (Vicinity plat showing project location and extent is required; cross section and plan views are useful, if available.)
- Request for Determination (RFD) - CMD only**  
If you wish to obtain a formal determination as to whether or not a CUP would be required for a particular activity, you may submit a RFD. The appropriate application fee will be assessed for RFD requests. The following Steps must be completed to obtain a RFD.
  - Step 1, Step 2, Step 5, Step 6, Step 8, Step 10, Step 14, Step 16; and
  - Step 13 - (Vicinity plat showing project location and extent is required; cross section and plan views are useful, if available.)

**Check this box when you have completed Step 3; then proceed to Step 4.**

**Step 4 of 16**

**Have you participated in a Pre-Application or Geological Review Meeting or obtained a wetland determination?**

*Note: To schedule a Pre-Application and/or a Geological Review Meeting, call CMD at 1-800-267-4019.*

*Note: To apply for a wetland determination, call the COE at 504-862-1627.*

a. Have you participated in a Pre-Application or Geological Review Meeting for the proposed project?

- NO (If NO, proceed to Step 4b.)
- YES (If YES, complete the following information.)

Date meeting was held: 06/14/2010

Attendees: Mike Flores Pete Serio  
Individual or Company Representative CMD Representative COE Representative

b. Have you obtained an official wetland determination from the COE for the project site?

- NO (If NO, proceed to Step 4c.)
- YES (If YES, include a copy with this application.)

c. Is this application a mitigation plan for another CUP?

- NO (If NO, proceed to Step 5.)
- YES (If YES, identify the permit number of the project requiring mitigation.)

Permit Number: \_\_\_\_\_

**Check this box when you have completed Step 4; then proceed to Step 5.**

*Continue to page 3 for Step 5.*



**Joint Permit Application** *Continued (page 3 of 12)*

**Step 5 of 16**

**What permits/certifications have you previously requested for the proposed project?**

*Note: Additional sheets may be required for agency name, permit number and status information.*

- a. Is this application a change to an existing permit?  
 **NO** (If NO, proceed to Step 5b.)  
 **YES** (If YES, identify the existing permit number.)

Permit Number: \_\_\_\_\_

- b. Have you *previously* applied for a permit or emergency authorization for all or any part of the proposed project? See Step 5 in the Attached for more info. on the NOD-20.

- NO** (If NO, proceed to Step 6.)  
 **YES** (If YES, complete the following information for the proposed project.)

	Agency Name	Permit Number	Decision Status			Decision Date
			Approved	Denied	Pending	
CMD		EUA 10-037	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	05/25/2010
COE		NOD-20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	05/27/2010
Other		MVN 2010-1066-ETT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Check this box when you have completed Step 5; then proceed to Step 6.

**Step 6 of 16**

**Where will the proposed project be located?**

*Note: The following websites may provide assistance in completing the latitude/longitude and directions:*

- Sonris on CMD website
- MapQuest.com
- Topozone.com

Complete the following information to identify the exact location of the proposed project.

- a. **Physical Location:** Terrebonne - St. Bernard  
 Parish \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_  
 Street Address (If known) \_\_\_\_\_

- b. **Latitude and Longitude:** See attached Permit Drawings.  
 Must be included in all applications. Latitude: Degrees \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds \_\_\_\_\_ Longitude: Degrees \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds \_\_\_\_\_

- c. **Section, Township, Range:** (if available)
- |                 |  |                                       |
|-----------------|--|---------------------------------------|
| Section # _____ | Township # (Specify North or South.) _____ | Range # (Specify East or West.) _____ |
| Section # _____ | Township # (Specify North or South.) _____ | Range # (Specify East or West.) _____ |

- d. **Lot #, Tract #, Parcel # or Subdivision Name:** (if known)
- Lot # \_\_\_\_\_ Parcel # \_\_\_\_\_  
 Tract # \_\_\_\_\_ Subdivision Name \_\_\_\_\_

- e. **Site Directions:** Directions to the proposed project site must be identified in order to process the application.
- Example:** START - I-10 toward Baton Rouge. Exit #153 toward Port Allen. US-190 West/LA-1 North ramp. RIGHT onto LA-987 1/Bridge Side Road. RIGHT onto LA-986/North River Road to Popular Grove Plantation directly behind guest parking lot in rear. - END

Project extends from Terrebonne to St. Bernard Parishes immediately adjacent and seaward of existing barrier islands.

Check this box when you have completed Step 6; then proceed to Step 7.

Continue to page 4 for Step 7.

**Joint Permit Application** *Continued (page 4 of 12)*

**Step 7 of 16**

Complete the following information to notify adjacent landowners whose property adjoins the proposed project site.

See Step 7 in the Supplemental Info. Attachment.

**Who are the adjacent landowners?**

*Note: Adjacent landowner information is usually available through the office of the tax assessor in the parish where the project is to be developed.*

*Note: Additional information may be included in the area provided on page 12. Also, extra sheets may be required if there are more than eight adjacent landowners.*

**Adjacent Landowner #1:**

Name of Adjacent Landowner \_\_\_\_\_  
 Address \_\_\_\_\_ L/A \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Mailing Address:**

**Adjacent Landowner #2:**

Name of Adjacent Landowner \_\_\_\_\_  
 Street Address or P.O. Box \_\_\_\_\_ L/A \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Mailing Address:**

**Adjacent Landowner #3:**

Name of Adjacent Landowner \_\_\_\_\_  
 Street Address or P.O. Box \_\_\_\_\_ L/A \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Mailing Address:**

**Adjacent Landowner #4:**

Name of Adjacent Landowner \_\_\_\_\_  
 Street Address or P.O. Box \_\_\_\_\_ L/A \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Mailing Address:**

Check this box when you have completed Step 7; then proceed to Step 8.

**Step 8 of 16**

Complete the following information to identify the purpose and need for the proposed project.

**What is the purpose of the proposed project?**

a. **Project Name and/or Title:** Louisiana Barrier Berm Oil Spill Response Project

b. **Project Type:** (Check  the appropriate box. See the "Glossary" on page 10 for the definitions of terms.)

- Non-Residential  
 Residential

*Note: We are required to review the justifications and needs for your project. Providing detailed information at the time of application may expedite processing of your proposal.*

c. Check  the appropriate box(es) to identify what will be done for the proposed project.


- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Bridge/Road   | <input type="checkbox"/> Home site/Driveway   | <input type="checkbox"/> Pipeline/Flow line         | <input type="checkbox"/> Rip rap/Erosion control |
| <input type="checkbox"/> Bulkhead/Fill   | <input type="checkbox"/> Levee construction   | <input type="checkbox"/> Plug/Abandon               | <input type="checkbox"/> Site clearance          |
| <input type="checkbox"/> Drainage improvements                                       | <input type="checkbox"/> Maintenance dredging | <input type="checkbox"/> Production barge/Structure | <input type="checkbox"/> Subdivision             |
| <input type="checkbox"/> Drill barge/Structure                                       | <input type="checkbox"/> Other structures     | <input type="checkbox"/> Prop washing               | <input type="checkbox"/> Vegetative plantings    |
| <input type="checkbox"/> Drill site  | <input type="checkbox"/> Pilings              | <input type="checkbox"/> Remove structures          | <input type="checkbox"/> Wharf/Pier/Boathouse    |
| <input checked="" type="checkbox"/> Other (Please specify.) <u>Berm construction</u> |   |   |  |

*Note: Additional sheets may be required to explain why the proposed project is needed.*

d. **Why is the proposed project needed?**

See Step 8 in the Supplemental Information Attachment.

Check this box when you have completed Step 8; then proceed to Step 9.

Continue to page 5 for Step 9. 



**Joint Permit Application** *Continued (page 5 of 12)*

**Step 9 of 16**

Complete the following information to indicate the start/end dates and the current status of the proposed project.

**What is the status of the proposed project?**

*Note: Show and identify planned, in progress, completed work and dimensions for excavations and fill on the Plan View and Cross Section Drawings.*

a. Proposed project start date: 06/01/2010 Proposed project completion date: 05/31/2011

b. Is any of the project work in progress?

- NO (If NO, proceed to Step 9c.)  
 YES (If YES, show and identify the work in progress on the Plan View and Cross Section Drawings.)

c. Is any of the project work complete?

- NO (If NO, proceed to Step 10.)  
 YES (If YES, show and identify the work completed on the Plan View and Cross Section Drawings.)

Check this box when you have completed Step 9; then proceed to Step 10.

**Step 10 of 16**

Complete the following information to describe structures, materials and methods for the proposed project.

**How would you describe the proposed project?**

*Note: To apply for a wetland determination, call the COE at 504-862-1627.*

*Note: Information provided in this Step must be consistent with Maps and Drawings.*

a. Excavations: (Check  the appropriate box(es) and indicate excavations in cubic yards and acres using the formulas below.)

Cubic yards are determined by using this formula. (Length (ft.) X Width (ft.) X Depth (ft.) divided by 27 = Cubic Yards)

**Example:** 25 ft. X 25 ft. X 5 ft. divided by 27 = 115.7 Cubic Yards

Acres are determined by using this formula. (Length (ft.) X Width (ft.) divided by 43,560 = Acres)

**Example:** 250 ft. X 250 ft. divided by 43,560 = 1.43 Acres

See Step 10 in the Supplemental Info. Att. for the Project Description.

- |  |  |
|--|--|
| <input type="checkbox"/> Vegetated Waterbottoms - _____<br>Cubic Yards    Acres                        | <input type="checkbox"/> Wetlands - _____<br>Cubic Yards    Acres      |
| <input checked="" type="checkbox"/> Non-Vegetated Waterbottoms - <u>216.2M</u><br>Cubic Yards    Acres | <input type="checkbox"/> Non-Wet Areas - _____<br>Cubic Yards    Acres |
| Quantity available.  |  |

b. Fill Areas: (Check  the appropriate box(es) and indicate fill areas in cubic yards and acres using the formulas in Step 10a.)

- |  |   |
|--|---|
| <input type="checkbox"/> Vegetated Waterbottoms - _____<br>Cubic Yards    Acres  | <input type="checkbox"/> Wetlands - _____<br>Cubic Yards    Acres                                     |
| <input checked="" type="checkbox"/> Non-Vegetated Waterbottoms - <u>63.117M</u> <u>8,118.2</u><br>Cubic Yards    Acres | <input checked="" type="checkbox"/> Non-Wet Areas - <u>1.82M</u> <u>324.9</u><br>Cubic Yards    Acres |
| All reaches except W-9 & W-10.   |   |
| W-9 & W-10 only.   |   |

c. What fill materials will be used for the proposed project?

(Check  the appropriate box(es) and indicate the cubic yards for each type of fill material.)

- |   |   |
|---|---|
| <input type="checkbox"/> Concrete _____<br>Cubic Yards                          | <input type="checkbox"/> Rock (rip/rap) _____<br>Cubic Yards  |
| <input type="checkbox"/> Crushed stone or gravel _____<br>Cubic Yards           | <input checked="" type="checkbox"/> Sand _____<br>Cubic Yards |
| <input type="checkbox"/> Native material (clay, mud, soil) _____<br>Cubic Yards | <input type="checkbox"/> Topsoil/Dirt _____<br>Cubic Yards    |
| <input type="checkbox"/> Other (Please specify.) _____<br>Cubic Yards           |   |

Continue to page 6 for more of Step 10.

**Step 10 of 16**  
**continued**

**How would you describe the proposed project?**

*Note: For any equipment used, show the access route and construction right of way on the Maps and Drawings.*

**d. What equipment will be used for the proposed project?** (Check  the appropriate box(es).)

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Airboat                                | <input checked="" type="checkbox"/> Bulldozer/Grader | <input checked="" type="checkbox"/> Marsh buggy                       |
| <input checked="" type="checkbox"/> Backhoe                     | <input type="checkbox"/> Dragline/Excavator          | <input checked="" type="checkbox"/> Other tracked or wheeled vehicles |
| <input checked="" type="checkbox"/> Barge mounted bucket dredge | <input checked="" type="checkbox"/> Handjet          | <input checked="" type="checkbox"/> Self propelled pipe laying barge  |
| <input type="checkbox"/> Barge mounted drilling rig             | <input type="checkbox"/> Land based drilling rig     | <input checked="" type="checkbox"/> Tugboat                           |
| <input type="checkbox"/> Other (Please specify) _____           |  |   |

Cutterhead & Hopper Dredges, Scows, Spider Barge

**Check this box when you have completed Step 10; then proceed to Step 11.**

**Step 11 of 16**

**What impact will the proposed project have?**

*Note: You will be notified by CMD if a field investigation is required to determine if the proposed project will impact wetlands.*

**a. What alternative locations, methods and access routes were considered to avoid impact to wetlands and/or waterbottoms?**

The proposed sand berm is being strategically placed to protect the barrier islands and inland wetlands from inundation by oil from the Deepwater Horizon disaster. In discussions with regulatory agencies it has been agreed to keep all berm improvements seaward of the Low Mean Water mark for the existing islands. All access to the berm during construction will be made from the seaward side of berm alignment.

*Note: Additional sheets may be required to adequately respond to 11a and/or 11b.*

*Note: Providing detailed information at the time of application may expedite processing of your proposal.*

**b. What efforts were made to minimize impact to wetlands and/or waterbottoms?**

In that the effort to retard oil from the Deepwater Horizon disaster from impacting the barrier islands and inland wetlands, the proposed project must be constructed seaward of the barrier islands - entirely on waterbottoms, with the exception of berm reaches W9 and W10 which are being considered for placement of the material actually on the island versus seaward of the island. To minimize the size of the berm footprint, the berm will be placed as close to the Mean Low Water mark as possible to minimize the depth of water and the resultant berm footprint.

**Check this box when you have completed Step 11; then proceed to Step 12.**

**Step 12 of 16**

**What are the requirements for notification of landowners of the proposed project site?**

*Note: CMD and COE both have mitigation requirements under different laws, rules and regulations; therefore, specific agency requirements may vary.*


**a. Are you applying for a Coastal Use Permit?**

- NO** (If NO, proceed to Step 13.)  
 **YES** (If YES, read the following information.)

**Requirements for Notification of Landowners.**

It is the responsibility of the applicant to notify the landowner(s) of the property about this proposed project. Notification must include providing each impacted landowner with a copy of the permit application (form and plats) at the time the application is submitted to the Coastal Management Division.

While this is a legal requirement to ensure that property owners are aware of proposals which might impact their land, it also serves as a proactive measure to initiate communication between the applicant and the landowner(s), especially when mitigation might be necessary. Since mitigation can be a lengthy process, taking proactive steps early in the process may significantly reduce the time necessary to receive an authorization.

*Continue to page 7 for more of Step 12.* 



**Joint Permit Application** *Continued (page 7 of 12)*

**Step 12 of 16**  
**continued**

**What are the requirements for notification of landowners of the proposed project site?**

*Note: If a property has multiple owners with undivided interest in the property, each person owning an interest is considered to be a landowner and must be notified.*

*Note: Additional sheets may be required if there are more than two landowners.*

*Note: Compensatory mitigation is not a monetary settlement to be used at the discretion of the landowner(s).*

*Note: A copy of the "Landowner Compensatory Mitigation Request/Waiver" form is included with this application. To obtain additional copies, visit the CMD website or call:*

- 1-800-267-4019
- or
- 225-342-7591

b. Are you the **sole owner** of the property on which the proposed activity is to occur?

- YES (If YES, proceed to Step 13.)  
 NO (If NO, follow the instructions below.)

Check  the appropriate box(es) and complete the landowner information to attest to CMD that a copy of this application has been sent to all landowners whose property will be impacted by the project.

- The applicant is an owner of the property on which the proposed described activity is to occur.  
 The applicant has made every reasonable effort to determine the identity and current address of the owner(s) of the land on which the proposed described activity is to occur, which included, if necessary, a search of the public records of the parish in which the proposed activity is to occur.

The applicant hereby attests that a copy of the application has been distributed to the following landowners. See Step 12 in the Supplemental Info. Attachment for a list

**Landowner #1:** of landowners associated with berm reaches W-9 and W-10.  
 Name of Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ LLA \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Landowner #2:**

Name of Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ LLA \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

c. Does the proposed activity present potential impacts to vegetated wetlands?

- NO (If NO, proceed to Step 13.)  
 YES (If YES, read the information below; submit the Landowner Compensatory Mitigation Request/Waiver.)  
 NOT SURE (If NOT SURE, read the information below; submit the Landowner Compensatory Mitigation Request/Waiver.)

**Landowner Rights**

- The affected landowner(s) whose property may be impacted by the proposed project has(have) the option of requesting that compensatory mitigation be done on their property.
- Once CMD determines that mitigation is required, they will notify the applicant and all affected landowners of the extent and type of habitat impacted. The landowner(s) will be given (30) thirty days to formally request or waive their mitigation option. (This can cause substantial delays in processing of the application.)

**Applicant Responsibilities**

- Coordinate with the affected landowner(s) to develop a conceptual compensatory mitigation plan. This plan should be designed to offset the adverse impacts to vegetated wetlands which will occur from the proposed project. (This can also cause substantial delays in processing of the application.)
- To avoid delays, it is recommended that, prior to sending the application to CMD, you contact affected landowner(s) to:
  - Inform them of possible wetland impacts and discuss their compensatory mitigation rights; and
  - Ask them to indicate their intentions regarding compensatory mitigation on the form.
- Submit the Landowner Compensatory Mitigation Request/Waiver form along with your application.

Check this box when you have completed Step 12; then proceed to Step 13.

Continue to page 8 for Step 13.

Step 13 of 16

Why are Maps and Drawings required to obtain a permit?



Quality Maps and Drawings are required to process the Joint Permit Application and for Public Notice. They must visually reflect what will be done in the proposed project and are key to the overall evaluation.

The following Maps and Drawings must be submitted with the Joint Permit Application and must show both existing and proposed conditions.

- Vicinity Map - Illustrates the location of the proposed project relative to surrounding areas;
- Plan View Drawing - Illustrates an overhead view of the proposed project; and
- Cross Section Drawing - Illustrates a side view of the proposed project.

In general, all Maps and Drawings should be:

- Legible and clearly labeled on single sided 8½ x 11 size paper; (large drawings that are reduced in size to fit the 8½ x 11 format are not acceptable if the scale is no longer accurate and if the dimensions and details are not clear and easy to read after reproduction in the Public Notice);
- Drawn to scale with the scale identified on each drawing; (if you cannot provide Maps and Drawings to scale, you may submit the dimensions of the proposed and existing features of the work area displayed);
- Black and white ONLY (Colored Maps and Drawings will NOT be accepted);
- Accurate and reproducible;
- Placement of the north arrow, title, legend and scale bar must be consistent on Maps and Drawings; and
- Information provided in Steps 1 through 12 must be consistent with the Maps and Drawings.

Note: The following websites may provide assistance in completing the Vicinity Map:

- Sonris on CMD website
- MapQuest.com
- Topozone.com

Note: For additional assistance with specific requirements, refer to the samples provided in this application package.

Inadequate or poor Maps and Drawings are the primary reason for delays in the permitting process. Sample Maps and Drawings are provided with this Joint Permit Application package for your assistance.

Check this box when you have completed Step 13; then proceed to Step 14.

Step 14 of 16

Who needs to certify and sign this application?

Read the following information. Print your name, sign and date to certify this application for processing.

Note: The application must be signed and dated by the applicant who desires to undertake the proposed activity.

- Application is hereby made for a permit or permits to authorize the work described in this application.
- To the best of my knowledge the proposed activity described in this permit application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Management Program.
- I certify that the information in this application is complete and accurate.
- If applicable, I also certify that the declarations in Step 12, notification to landowner(s), are complete and accurate.
- I will abide by the conditions of the permit or license if issued and will not begin work without the appropriate authorization.
- Permission is granted to the agencies responsible for authorization of this work, or their duly authorized representative, to enter the property site during working hours for inspection purposes.
- If applicable, I authorize the agent identified in Step 2 to act in my behalf as agent for this application and the agent will furnish, upon request, information in support of this application.

for Steve Mathies  
Clearly Print Name of Applicant

7 1 2010  
Applicant Signature Date

Note: If an agent is being used, the applicant and agent must sign and date this application.

- As the agent, I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Charlie Hess  
Clearly Print Name of Authorized Agent

7 01 10  
Authorized Agent Signature Date

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

Check this box when you have completed Step 14; then proceed to Step 15.

Continue to page 9 for Step 15.





## Joint Permit Application *Continued (page 9 of 12)*

### Step 15 of 16

The following fees apply and must be received in order to process the application.

**What fees are required for permit processing and what methods are available for payment?**

- a. Check  the appropriate box to indicate the fee type: *(See the "Glossary" on page 10 for the definitions of terms.)*
- \$100.00 - Non-Residential
  - \$ 20.00 - Residential
- If your activity involves dredging or filling, CMD will bill you on the basis of \$.04 per cubic yards for residential uses and \$.05 per cubic yards for all other uses.
  - Fees may not apply if the Joint Permit Application is being processed by the local Parish.
  - Additional fees may be assessed for mitigation processing.

b. Check  the appropriate box to indicate payment method:

- |  |  |
|--|--|
| <input type="checkbox"/> Check/Money Order                     | <input type="checkbox"/> Electronic Transfer |
| <input type="checkbox"/> Credit Card (Visa or Mastercard only) | <input type="checkbox"/> Escrow Account      |

- Make Check/Money Order payable to the Coastal Management Division.
- To pay by Credit Card, Electronic Transfer or Escrow Account, call CMD at 1-800-267-4019 to provide specific account information or provide account information on a separate sheet of paper and include with application.
- Cash is not accepted.

**COE and Local Parish Program fees will be assessed separately at the end of the process.**

Check this box when you have completed Step 15; then proceed to Step 16.

### Step 16 of 16

To submit this permit application, Maps and Drawings and all supporting documentation, select an option below.

**How do I submit the Joint Permit Application and Maps and Drawings for processing?**



**MAIL:**

**Coastal Management Division  
 P.O. Box 44487  
 Baton Rouge, LA 70804-4487**

If you select the MAIL option, submit the original Joint Permit Application, Maps and Drawings and supporting documentation.

**If your project is in the Galveston or Vicksburg District of the Corps of Engineers, please see page 12.**



**EXPRESS MAIL:**

**Coastal Management Division  
 617 North 3rd Street,  
 Suite 1048  
 Baton Rouge, LA 70802  
 Phone: 225-342-7591**

If you select the EXPRESS MAIL option, submit the original copies of the Joint Permit Application, Maps and Drawings and supporting documentation.

*Note: Please keep a copy of the completed application for your records.*



**FAX:**

**225-342-6760  
 Attention: Coastal Management Division, Joint Permit Application Processing**

- Include a cover sheet with the total number of pages; and
- If you select the FAX option, follow-up with one of the mail options to prevent delay if the fax is not legible.
- Payment arrangements should be made prior to faxing your application by calling CMD at 1-800-267-4019.

Check this box when you have completed Step 16; then submit for processing.

*Continue to page 10 for the "Glossary of Terms".*



## Glossary of Terms

The following information may provide a better understanding of terms that are used throughout this application. If the terms defined in this section do not help you, please contact CMD at one of the following, 1-800-267-4019 or 225-342-7591.

### Adjacent Landowner

Property owners or lessees whose property is contiguous or shares a common border with that being developed.

### Affected Landowner

The owner of the land on which a proposed activity will occur. If a property has multiple owners with undivided interest, each person owning an interest is considered to be an affected landowner.

### Coastal Use Permit

A permit required by 214.30 of the SLCRMA. The term does not mean or refer to, and is in addition to, any other permit or approval required or established pursuant to any other constitutional provision or statute.

### Compensatory Mitigation

As defined by CMD, replacement, substitution, enhancement, or protection of ecological values to offset anticipated losses of ecological values caused by a permitted activity.

As defined by the COE, compensating for unavoidable adverse impacts to wetlands by restoring areas to wetlands, creating wetlands, or enhancement of wetlands. Most compensatory mitigation involves purchase of mitigation credits in a private mitigation bank. The amount of credits purchased is dependent on the amount of wetland values that would be lost because of the permitted project.

### Cross Section

A side view of a project area illustrating elevations of features such as natural ground; buildings; bulkheads; piers; and depressions such as waterways, ditches, ponds, etc. Cross sections also show side views of proposed work such as dredging and filling.

### Discharge

The placement or movement of fill or excavated material using methods including, but not limited to dragline or backhoe buckets, bulldozers, front loaders, dump trucks, hydraulic dredge pipes, wheel-washing or prop-washing, jetting, etc.

### Dredged Material (Spoil)

Material that is excavated as part of a specific project.

### Ecological Value

The ability of an area to support vegetation, fish and wildlife populations.

### Excavate

To dig out, remove or move earthen material, or to form a cavity or hole including linear features. Methods include, but are not limited to, draglines, backhoes, bulldozers, front loaders, hydraulic dredges, wheel-washing or prop-washing, jetting, etc.

### Fastlands

Lands surrounded by publicly-owned, maintained, or otherwise validly existing levees or natural formations as of January 1, 1979, or as may be lawfully constructed in the future, which levees or natural formations would normally prevent activities, not to include the pumping of water for drainage purposes, within the surrounded area from having direct and significant impacts on coastal waters.

### Fill Material

Any material including, but not limited to, soil, rocks, sand, clay, construction debris, trees, wood chips, broken concrete and asphalt, etc., whose placement replaces any portion of a waterbottom or wetland with dry land or changes the elevation of wetlands or waterbottoms. This material may come from on-site or be imported from an off-site source.

### Mean High Water

The average position (elevation) of the high water mark.

### Mean Low Water

The average position (elevation) of the low water mark.

### Mitigation

All actions taken by a permittee to avoid, minimize, restore, and compensate for ecological values lost due to a permitted activity.

### Non-Residential

Includes all actions that do not meet the requirements for the *Residential* category.

### Non-Vegetated Waterbottoms

Waterbottoms that lack the presence of rooted vegetation.

### Non-Wet Areas

Any area that has sufficiently dry conditions that indicate hydrophytic vegetation, hydric soils, and/or wetland hydrology are lacking.

### Off-site

Not within or adjoining the area directly modified by the permitted activity and not directly related to implementation of the permitted activity.

### On-site

Within or adjoining the area directly modified by the permitted activity or directly related to implementation of the permitted activity.

### Residential

Any coastal use associated with the construction or modification of one single-family, duplex, or triplex residence or camp. It shall also include the construction or modification to any outbuilding, bulkhead, pier, or appurtenance on a lot on which there exists a single-family, duplex, or triplex residence or camp or on a water body which is immediately adjacent to such lot. Uses which do not fit this definition are non-residential. The Coastal Use Permit application fee for residential projects is \$20.

### Unavoidable Net Loss of Ecological Values


The net loss of ecological value that is anticipated to occur as the result of a permitted/authorized activity, despite all efforts, required by the guidelines, to avoid, minimize, and restore the permitted/authorized impacts.

### Vegetated Waterbottoms

Waterbottoms that exhibit the presence of rooted vegetation.

### Wetlands

For the purposes of §724 (as defined in R.S. 49:21.41), an open water area or an area that is inundated or saturated by surface or ground water at a frequency and duration to support, and under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Under the DNR program, fastlands and lands more than 5 feet above sea level which occur in the designated coastal zone of the state are not considered wetlands under the state's program.

Continue to page 11 for "Contacts". 



## Frequently Asked Questions

The following questions and answers may assist you during the application process. For an expanded version of frequently asked questions, visit our website at [www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi](http://www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi).

### **What gives the Coastal Management Division (CMD) the right to regulate private property?**

CMD does not regulate private property. CMD regulates activities that have a direct and significant impact on state coastal waters. CMD's authority derives from Louisiana Revised Statute 49:214.21 et seq. Visit the legislative website for additional information at <http://www.legis.state.la.us/tsrs/search.htm>.

### **How does the Joint Permit Application process work?**

Once the application is submitted to CMD, which serves as a central collection point for the application, CMD distributes the application to COE for processing of their permits and to interested parties for their review and comments. CMD and the commenting agencies review the application for conformance with programmatic requirements and look for ways of minimizing impacts to coastal resources. Once consensus is reached, an appropriately conditioned permit is issued.

### **Who receives a copy of my Joint Permit Application?**

The following agencies/offices receive a copy of your application:

- CMD Permit Section, (two copies);
- Local Programs Section, (if necessary);
- CMD Support Services Staff;
- CMD Field Investigator;
- The Army Corps of Engineers, (two copies); and
- State Land Office.

### **How long does it take to obtain a permit?**

General permits may be issued in as little as five days, though mitigation and landowner notification requirements typically add several weeks or more to processing. Individual Coastal Use Permits take a minimum of 45 days and can take considerably longer, depending on the complexity of the project and the quality and accuracy of Maps and Drawings.

### **How do I check the status of a submitted Joint Permit Application?**

Information regarding submitted permits may usually be obtained on the CMD website: <http://130.39.237.83/permit/index.htm>.

### **How does CMD protect the information that I provide throughout this application?**

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404.33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary; however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

### **May I submit a Joint Permit Application to the Parish instead of CMD?**

If your project is in a parish with an approved Local Coastal Program, you may submit your application to either the approved local program or CMD.

### **What other permits may be required?**

If your project involves dredging or filling of wetlands you may need a Water Quality Certification from the Department of Environmental Quality. Other approvals may be required but are not limited to the following:

- State Land Office;
- Department of Wildlife and Fisheries;
- Department of Culture, Recreation and Tourism;
- Department of Transportation and Development; and/or
- Department of Health and Hospitals.

These agencies will notify you of their requirements as part of the Joint Public Notice process.

### **When I receive my permit from CMD, may I begin work?**

Following the determination from CMD, work may begin only after obtaining any necessary permit(s) from the COE, including any required mitigation, and any approvals or permits required by any local authority or agency or by any state or federal agency, as may be required by law for said activity or the construction of the referenced project.

### **How may I receive an extension for a permit?**

If you have not begun work on your project within two years of the date of permit issuance, the initiation period can be extended for an additional two years if you submit a request to CMD no less than sixty days and no more than one-hundred and eighty days before the initial two year period expires. The expiration date cannot be extended.

### **If I began my project without a permit, what will happen?**

CMD processing of any pending Joint Permit Application for the project will be suspended until the violation is resolved. You may be required to remove any structures installed and restore any impacted habitat. You may be subject to fines of up to \$12,000 and may be jailed up to six months. The penalties assessed by the Army Corps of Engineers may be significantly more expensive and more complicated.

### **Did I break the law if I have already done some clearing?**

A field investigation and project evaluation will be required to determine the extent of any impacts and whether or not you have violated any laws. Contact CMD at 1-800-267-4019 for assistance.

### **What is Section 10 of the Rivers and Harbors Act?**

Section 10 of the Rivers and Harbors Act of 1899 prohibits the obstruction or alteration of navigable water of the United States without a permit from the U.S. Army Corps of Engineers.

### **What is Section 404 of the Clean Water Act?**

Section 404 of the Clean Water Act prohibits the discharge of dredged or fill material into waters of the United States without a permit from the U.S. Army Corps of Engineers.

### **How do I receive additional information on the Joint Permit Application process?**

For additional information regarding the Joint Application Process, contact CMD at 1-800-267-4019 or visit the website at: [www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi](http://www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi). You may also contact the Army Corps of Engineers at 504-862-2766 or visit the website at: [www.mvn.usace.army.mil/ops/regulatory](http://www.mvn.usace.army.mil/ops/regulatory).

Continue to page 12 for "Contacts and Additional Landowner Information". 



## Contacts and Additional Landowner Information

If your project is in the Galveston or Vicksburg COE District, submit your application directly to them. See addresses listed below.



### COE District Contact Information:

U.S. Army Corps of Engineers  
Galveston District  
Attention: CESWG-PE-R  
P.O. Box 1229  
Galveston, TX 77553-1229  
Phone: 409-766-3930  
Fax: 409-766-3931

U.S. Army Corps of Engineers  
Vicksburg District  
Attention: CEMVK-OD-F  
4155 Clay Street  
Vicksburg, MS 39183-3435  
Phone: 601-631-5276  
Fax: 601-631-5459

### Additional Landowner Information (if necessary):

#### Adjacent Landowner #5:

Name of Adjacent Landowner \_\_\_\_\_

#### Mailing Address:

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
L/A

#### Adjacent Landowner #6:

Name of Adjacent Landowner \_\_\_\_\_

#### Mailing Address:

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
L/A

#### Adjacent Landowner #7:

Name of Adjacent Landowner \_\_\_\_\_

#### Mailing Address:

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
L/A

#### Adjacent Landowner #8:

Name of Adjacent Landowner \_\_\_\_\_

#### Mailing Address:

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
L/A

# **Louisiana Barrier Berm Oil Spill Response Project**

Supplemental Information

## **Step 5 of 16: Emergency Authorization**

### **(Emergency Permit) NOD-20: MVN 2010-1066-ETT**

On May 27<sup>th</sup>, 2010, (Emergency Permit) NOD-20 (Base File: MVN 2010-1066-ETT) was offered by the U.S. Army Corps of Engineers, New Orleans District (CEMVN). On June 1<sup>st</sup>, the State agreed to the terms and conditions and executed the emergency permit. This NOD-20 emergency permit allows the construction of berm for reaches E-3 and E-4 to the east, and W-8, W-9, W-10, and W-11 (approximately 45 miles of barrier berm. These areas have been identified by USACE staff assessment as critical locations where greater immediate benefit is likely to be achieved with minimal adverse disruption of coastal circulation patterns. This provides a strategic approach wherein information on success can be obtained from site monitoring, and allows for more careful evaluation of the remaining, more difficult areas, in formulating a construction plan for the reaches not authorized in this permit, should the state maintain interest in addressing those specific areas. *(Note: The drawings submitted with this application contain the six authorized segments and the alignment for the additional thirteen (13) segments in the original emergency request by the State of Louisiana. The segments (or reaches) are first shown on a "Location Map" for either the eastern or western segments (meaning east or west of the Mississippi River) and then separate drawing sets are provided for each reach.)*

### **Compliance Performed as Required by the NOD-20 Emergency Permit**

Emergency Permit MVN 2010-1066-ETT for the development of sand berms along the Louisiana coast is "conditioned" upon compliance with two (2) "Provisions" and thirty-three (33) "Special Conditions", including compliance with the Interim Monitoring Plan. These conditions have prompted a regular exchange of information which confirms completion of actions that require CEMVN approval in advance of the beginning, or allow for continuance, of work. These regular compliance submittals affirm that surveys of potentially significant cultural resources and contaminant testing of sediment have taken place. The proposed project will maintain the ongoing compliance activities to ensure that the construction activities will continue and adverse impacts will be minimized.

## Step 7 of 16: Adjacent Landowners

All berm reaches, borrow sites, and re-handling areas will be located in open water owned by the State of Louisiana or the U.S. Federal Government with the exception of Reaches W-9 and W-10. The following is a list of landowners associated with Reaches W-9 and W-10. Because the berm crosses ownership tracts, the list of "Adjacent Landowners" and "Affected Landowners" is the same list; therefore, the list of names below are also applicable for Step 12 of the application.

Plaquemines Parish School Board  
P. O. Box 69  
Belle Chasse, LA 70037

Sarah Ann McGee  
6029 Pierrier Street  
New Orleans, LA 70118

John B. FASTERLING III  
Charles FASTERLING  
2955 Ridgelake Dr., Ste 109  
Metairie, LA 70002

May C. Devitt  
Post Office Box 319  
Ethel, LA 70730

Joan FASTERLING MEYERS  
2955 Ridgelake Dr., Ste 109  
Metairie, LA 70002

The Rene Leland Provosty, George H. Provosty  
Yvette Nan Provosty Trust  
c/o May C. Devitt  
Post Office Box 319  
Ethel, LA 70730

Russel C. Pottharst  
Mr. J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 7043

Apache Louisiana Minerals, Inc.  
P. O. Box 206  
Houma, LA 70361

John FASTERLING MCGEE  
2412 Walbash Drive  
Montgomery, AL 36116

Judith Ellis Pratt  
544 Lowerline Street  
New Orleans, LA 70118

**Continuation of Step 7. (Adjacent Landowners)**

Shingle Point LLC  
c/o Glen A. Fleming  
Post Office Box 7125  
Belle Chasse, LA 70032

Titine C. Pottharst  
Mr. J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 70437

James S. Ellis Jr.  
P. O. Box 7912  
Metairie, LA 7001

Kenneth Claude McGee, Jr.  
P. O. Box 1029  
Rockport, TX 78381

Lynne P. McMillian  
J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 7043

Joan R. Brown  
6033 Gaylyn Drive  
Shreveport, LA 71105

The Louisiana Land and Exploration Company  
P. O. Box 7097  
Houma, LA 70361

George Pivach, II, Manager  
Shingle Point LLC  
P O Box 7125  
8311 Highway 23, Suite 104  
Belle Chasse, LA 70037

Mark A. Handley  
Tennessee Gas Pipeline Company  
9 Greenway Plaza  
Houston, TX 77002-5089

George A. Robinson, Manager  
Robinson Interests Company, L.L.C.  
5005 Riverway Drive, Suite 200  
Houston, TX 77056

John W. Backer, Jr., VP  
J. A. Interests, Inc.  
830 Grassy Springs Road  
Versailles, KY 40383

Samuel G. Robinson, Manager  
Robinson Lumber Company  
4000 Tchoupitoulas Street  
New Orleans, LA 70115



**Continuation of Step 7. (Adjacent Landowners)**

Peter Cooper Hitt Jr.  
8502 Huntspring Drive  
Lutherville, MD 21093

A. Bruce Wallis  
Felice Exploration, L.L.C.  
P O Box 750667  
New Orleans, LA 70175-0667

Jacqueline Elizabeth Kirn Long  
P. O. Box 73  
Meridian, CA 95957-0073

Floyd A. Wallis  
F. A. Wallis Properties, L.L.C.  
P O Box 750667  
New Orleans, LA 70175-0667

Anne Schulze Nelson  
345 Lake Avenue  
Metairie, LA 70005

Kathryn Cartan Schulze  
505 Helios Avenue  
Metairie, LA 70005-3243

Elaine Mary Schulze Colen  
10272 Latney Road  
Fairfax, VA 22032-3256

Hermann John Schulze, Jr.  
474 Spinnaker Drive  
Marco Island, FL 34145-2430

Ann Gretchen Schulze Fontenot  
1041 Westchester Drive  
Baton Rouge, LA 70810-5229

Diane Mary Schulze Hill  
10965 Goodwood Blvd.  
Baton Rouge, LA 70815-5220

Richard Rudolph Schulze  
1812 Pasadena Avenue  
Metairie, LA 70001-2542

Rudolph Franz Schulze  
P. O. Box 393  
Grand Coteau, LA 70541

**Continuation of Step 7. (Adjacent Landowners)**

Helen Margaret Stich Plough  
1119 Tulane Avenue  
New Orleans, LA 70112

Jacquelyn Robbert Stich  
175 Quitman Perry Road  
Carriere, MS 39426

Jacquelyn R. Stich, Trustee  
Frank J. Stich, Jr. Testamentary Trust  
175 Quitman Perry Road  
Carriere, MS 39426

Walter F. Marcus, Jr., Judge  
7203 Benjamin Street  
New Orleans, LA 70118

Sam B. Marcus  
14902 Preston Road, PMB 534-404  
Dallas, TX 75240-9105

Ann Elizabeth Levy Piassick Cox  
#5 Laureston Place  
Dallas, TX 75225

Walter Milton Levy  
5315 Rockclift Place  
Dallas, TX 75209-2425

Lester J. Levy, Jr.  
3911 Beverly Drive  
Dallas, TX 75205-2809

Elizabeth Hiern Ainsworth  
1776 Arabella Street  
New Orleans, LA 70115

Elisabeth Ainsworth Rareshide  
3840 Napoleon Avenue  
New Orleans, LA 70125-4444

Robert A. Ainsworth, Iii  
77378 Donnie Road  
Folsom, LA 70437

Leslie Ainsworth Maggio  
7609 Overbrook Drive  
Tampa, FL 33634-2961

**Continuation of Step 7. (Adjacent Landowners)**

Louis Yarrut Fishman  
Fishman Family Louisiana, L.L.C.  
201 St. Charles Avenue, 46<sup>th</sup> Floor  
New Orleans, LA 70170

Mildred Bryan Bancroft Trust  
c/o ICG  
P O Box 810490  
Dallas, TX 75361-0490

Linda Carroll D'antoni Blicharz  
20 Willow Oak Lane  
St. Louis, MO 63122-4714

Linda D. Blicharz Testamentary Trust  
c/o Commerce Bank  
P O Box 11356  
St. Louis, MO 63105-1356

Anita Marie D'antoni Blanke  
4912 Townsend Street  
Metairie, LA 70006-1131

Carla Ann D'antoni Ratican  
643 East Monroe Avenue  
Kirkwood, MO 63122-6319

Carla D. Ratican Testamentary Trust  
c/o Gulf Coast Bank & Trust Company  
737 Terry Parkway  
Terrytown, LA 70056

Mona Claire D'antoni Marsden  
12225 Robyn Lane  
Sunset Hills, MO 63127-1627

Mona D. Marsden Testamentary Trust  
c/o Commerce Bank NA  
P O Box 11356  
St. Louis, MO 63105-1356

Claire Lally Brennan  
3 Poydras Street, Suite 7A  
New Orleans, LA 70130

Ralph Owen Brennan  
452 Walnut Street  
New Orleans, LA 70118-4932

Cynthia Louise Brennan  
7111 Bienville Street  
New Orleans, LA 70130

**Continuation of Step 7. (Adjacent Landowners)**

Thomas John Brennan  
1212 Bluewater Drive  
Mandeville, LA 70471-7418

Susan Menendez Hohenwarter, Co-Trustee  
Barbara Menendez Ganucheau, Co-Trustee  
Charles V. Menendez, Jr., Co-Trustee  
The Charles V. Menendez, M.D.  
Testamentary Trust  
219 Washington Avenue  
Ocean Springs, MS 39564-4625

Marion Vaccaro Genevay Estate  
4009 North Woodlawn Avenue  
Metairie, LA 70006-2839

Antonina Catherine Vaccaro Hanson  
715 St. Louis Street  
Pass Christian, MS 39571-5001

Albert A. Prats, Jr.  
1700 Lark Street  
New Orleans, LA 70122

Verda Hudson Perschall  
307 Rue St. Peter  
Metairie, LA 70005

Margaret Lynn Perschall Fetherston  
785 Dividing Ridge Road  
Birmingham, AL 35244

Susan Mary Perschall Guarisco  
159 Hollywood Drive  
Metairie, LA 70005

Patricia Ann Perschall Loyacano  
6009 Morton Street  
Metairie, LA 70003

Clement Francis Perschall, Jr.  
435 Fairway Drive  
New Orleans, LA 70124

Bert A. Flanders, III  
927 Wild Forest Drive  
Gaithersburg, MD 20879-3209

Martha Anne Flanders Zimmer  
2705 Canna Ridge Circle NE  
Atlanta, GA 30345-1411

**Continuation of Step 7. (Adjacent Landowners)**

Mary Catherine Flanders Berglund  
7716 Sweetbriar Road  
Richmond, Virginia 23229-6622

Nathaniel P. Phillips, Jr.  
826 Union Street, Suite 200  
New Orleans, LA 70112

Joan R. Brown  
509 Delaware Street  
Shreveport, LA 71106-1635

The Rene Leland Provosty, George H. Provosty  
and Yvette Nan Provosty Trust  
c/o George H. Provosty, Trustee  
30 Trinity Drive  
Lumberton, NC 28358

Jacqueline Elizabeth Kirn Long  
P. O. Box 73  
Meridian, CA 95957-0073

Clement Francis Perschall, Jr.  
110 Veterans Blvd, Suite 340  
Metairie, La 70005

Charles Brearley  
APTO 40-3017  
Costa Rica, Central America

John Brearley  
27119 Boerne Forest  
Boerne, TX 78006

Susie Burford  
6 Charleston Avenue  
Clinton, MS 39056

Jack Causey  
P.O. Box 99  
Cherokee Street  
Centreville, MS 36931

Dixon Christian  
101 Maple Avenue  
Richmond, VA 23226

Margaret Christian  
950 Dalmore Drive  
Midlothian, VA 23226

**Continuation of Step 7. (Adjacent Landowners)**

William Christian  
5937 Stones Throw Road  
Houston, TX 77057

Dorothy Cosnahan  
512 Aston Avenue  
Mccomb, MS 39648

Charlene Dzierzawski  
1500 Albemarle Court  
Dunedin, FL 34698

Enterprise Products  
P.O. Box 4324  
Houston, TX 77210

Barbara Ervin  
411 Blvd Avenue  
Lexington, MS 39095

Charlotte Eustis  
511 Lowerline Street  
New Orleans, LA 70118

Lynn Falkenheiner  
P.O. Box 488  
Woodville, MS 39669

Margaret Falkenheiner  
P.O. Box 488  
Woodville, MS 39669

Ridgely Finley III  
P.O. Box 736  
Folsom, LA 70437

Elinor King  
2604 Calhoun St  
New Orleans, LA 70118

Ann Meyers  
P.O. Box 7148  
New Orleans, LA 70186

Gerald Meyers  
P.O. Box 7148  
New Orleans, LA 70186

**Continuation of Step 7. (Adjacent Landowners)**

Thomas Meyers  
P.O. Box 7148  
New Orleans, LA 70186

Sue Nicholas  
P.O. Box 216  
Woodville, MS 39669

Elinor O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Frederica O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Loretto O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Michael O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Patrick O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

John O'Reilly III  
P.O. Box 7148  
New Orleans, LA 70186

Elizabeth Osten  
3750 Schooner Ridge  
Alpharetta, GA 30005

Plaquemines Parish  
8056 Hwy 23, Ste 308  
Belle Chasse, LA 70037

Plaquemines Parish  
James C Hoyle  
P.O. Box 69  
Belle Chasse, LA 70037

Margaret Reitmiller  
808 Possum Hollow  
Lexington, VA 24450

**Continuation of Step 7. (Adjacent Landowners)**

Southern Natural  
158 Regal Row  
Houma, LA 70360

Bettie Stockett  
c/o Shirley W Stockett  
P.O. Box 12935  
Jackson, MS 39236

Leila Stockett  
90 Morning Glory Road  
Warren, NJ 07059

Leonard Stockett  
P.O. Box 53  
Woodville, MS 39669

Shirley Stockett  
P.O. Box 12935  
Jackson, MS 39236



## **Step 8 of 16: Purpose and Need for the Proposed Project**

### **The Deepwater Horizon Oil Spill**

At approximately 11:00PM CDT on April 20<sup>th</sup>, 2010, the Deepwater Horizon, a semi-submersible drilling platform, working on an exploratory well off the shore of Louisiana in the Gulf of Mexico experienced an explosion and fire. The Deepwater Horizon semi-submersible Mobile Offshore Drilling Unit (MODU) is located about 40 miles southeast of the Louisiana coast in the Macondo Prospect Oil Field, the well is found in the Mississippi Canyon Lease Block 252 (MC-252). The explosion caused the Deepwater Horizon to burn and sink, and started a massive ongoing offshore oil spill in the Gulf of Mexico. The spill stems from a sea floor deepwater wellhead 5,000 feet below the ocean surface. The gusher is now estimated by Flow Rate Technical Group to be flowing at 35,000 to 60,000 barrels (equivalent to 1,500,000 - 2,500,000 US gallons) of crude oil per day. The spill flow rate is uncertain due to the difficulty of flow measurement at these depths. The resulting oil slick covers a surface area estimated at 2,500 square miles with the exact size and location of the slick fluctuating from day to day depending on weather conditions. Scientists also reported observations of immense underwater plumes of oil not visible at the surface.

This environmental disaster has already made an extensive adverse impact on marine and wildlife habitats. Crews have been working to protect hundreds of miles of beaches, wetlands and estuaries along the northern Gulf coast, using skimmer ships, floating containment booms, anchored barriers, and sand-filled barricades along shorelines. The spill has damaged the Gulf of Mexico fishing and tourism industries. The U.S. Government has named BP as the responsible party in the incident.

### **The Barrier Berm Project**

The Deepwater Horizon oil spill in the Gulf of Mexico poses great threats to coastal communities, industries, culture, and oil exploration initiatives. While BP has consistently acknowledged responsibility for the incident, significant remedial and preventive actions are required to clean up and mitigate adverse impacts of the spill. In an attempt to remediate the potential impact of oil to thousands of acres of fragile wetlands in South Louisiana, the State of Louisiana proposes the development of a sand berm adjacent to and seaward of existing barrier islands along the Louisiana shoreline. The implementation of this sand barrier will provide immediate benefits preventing oil from coming ashore onto existing barrier islands and penetrating fragile inland marshlands. The project is proposed to develop approximately 101 miles of sand berm adjacent to existing barrier islands.

## **Step 10 of 16: Project Description**

### **Applicant's Proposal**

The applicant proposes to construct a sand berm approximately 300-foot at the base (assuming an average water depth of two (2) feet), 20-foot at the crown and plus 6-feet NAVD88. As illustrated on the attached sets of drawings, East of the Mississippi River, the berm will be constructed on the seaward side of the Chandeleur Islands westward to Baptiste Collette Bayou; West of the Mississippi River, it will be constructed from Timbalier Island (W-12) eastward to Sandy Point (W-11). The basic premise of the barrier is to place the sand berm in the Gulf of Mexico, immediately seaward of the existing barrier islands. However, because of ongoing design work to restore several of the barrier islands, (if approved by regulatory agencies) the material may be moved within the approved boundaries of restoration projects to best utilize the material for a specific island segment. At the submittal of this application, Reaches W-9 and W-10 are being considered for placement of the material actually on the island versus seaward of the island. The quantity of "Non-Wet Areas" shown in Step 10.b. of the application are relative to the estimated quantities for Reaches W-9 and W-10.

Material to construct the berm will be dredged from dredge locations approved by all appropriate regulatory agencies. Following magnetometer surveys and testing of each dredge area, permit drawings (showing any anomalies and "No Dredge Zones") will be prepared and submitted to the Corps. In addition to the permit drawings, lab results (confirming dredge material to be free of contaminants, and a letter from the State Historic Preservation Office (SHPO) confirming that dredging in the area have no adverse to cultural resources) will be submitted for approval prior to the commencement of dredging in each borrow area.

Material for the sand berm segments located west of the Mississippi River will be taken from Ship Shoal, South Pelto, the Mississippi River Offshore Disposal Site, Pass-a-Loutr , and Cubit's Gap borrow areas. Material for the sand berm segments located east of the Mississippi River will be taken from St. Bernard Shoal and Hewes Point. Total length of the berm structure is approximately 101 miles for an estimated 8,513 acres of sand barrier in waters of the U.S.

### **The Plan**

- Mobilize U.S. dredges to create barrier sand berms to protect barrier islands and interior marshlands in coastal Louisiana.
- Stage the project to address areas that will complete critical barrier island segments first and thereby close shallow gaps between existing islands that would permit the flow of oil onto interior marshlands.
- Design the barriers to be built as quickly and efficiently as possible, to protect the seaward side of the islands while allowing for tidal exchanges through existing deepwater passes.
- Design and execute the project in stages to test the concept and refine the process.
- Expedite the issuance of environmental permitting through the powers inherent in the current emergency declaration.
- Implement a thorough and transparent monitoring process to ensure that project objectives are met and funds are spent according to the plan.

### **Benefits and Justification of the Plan**

- The transport of dredge material from the borrow locations to the location seaward of the existing barrier islands and with the alignment of the island restoration footprint for reaches W-9 and W-10 are consistent with the Louisiana Comprehensive Master Plan for a Sustainable Coast and the Plaquemines Parish Strategic Coastal Plan.
- The plan is designed to be non-intrusive relative to delicate inland marshland areas.
- The berm reaches are intended to provide a barrier to protect existing barrier islands and interior coastal marshlands from encroaching oil.
- A major benefit of the proposed barrier berm is that the sand berm will be easier to maintain and clean-up than marshlands in the event of oil penetration.
- The barrier berm will be far more robust and effective than the oil booms currently being used in clean-up and mitigation efforts.
- The sand berm will be developed using indigenous material to the area.
- It can be implemented in stages to control costs and ensure effectiveness.

### **Borrow Sources**

In advance of the submittal of the original emergency action request for this project, it was envisioned that the borrow area for the berms would be dredged from an alignment one mile seaward of the berm placement; assuming that the borrow area would parallel the alignment of the berm. After a preliminary review and discussions with regulatory agencies regarding the original request, the “parallel” borrow area was abandoned and it was agreed that the request would be resubmitted to show all borrow for the sand berms to be dredged from locations approved by the regulatory agencies. As stated above, all necessary topographic, cultural and contamination surveys will be conducted and the results submitted to all regulatory agencies for approval prior to the commencement of dredging activities within a borrow area.

In addition to the survey and testing activities for all other dredge areas, St. Bernard Shoal will require a lease agreement between the State of Louisiana and the Mineral Management Service (MMS) – recently reorganized and named the Bureau of Ocean Management, Regulation, and Enforcement (BOEMRE). All necessary actions will be taken to implement the lease agreement prior to the commencement of any dredging activities at St. Bernard Shoal.

Survey work is currently underway; however, based on the estimates of borrow material from each of the borrow areas in the table shown below, there is more than ample material from these areas to construct the proposed sand berm.

<b>Reaches E-1 through E-4</b>	<b><u>Quantity of Sand (CY)</u></b>
<ul style="list-style-type: none"> <li>• Hewes Point               <ul style="list-style-type: none"> <li>○ CH-A</li> <li>○ CH-B</li> <li>○ HD-A</li> </ul> </li> <li>• St. Bernard Shoal</li> </ul>	5,800,000 3,200,000 8,900,000 20,000,000
<b>Reaches W-1 – W-15</b>	
<ul style="list-style-type: none"> <li>• Cubit’s Gap</li> <li>• Pass-a-Loutre</li> <li>• Mississippi River Offshore Disposal Site</li> <li>• Ship Shoal (Blocks 84, 85, 98, 99)</li> <li>• South Pelto (Blocks 12 &amp; 13)</li> </ul>	5,000,000 15,000,000 5,000,000 125,000,000 <u>28,300,000</u>
<b>Total:</b>	<b>216,200,000</b>

It is important to note that the total quantity of borrow material available from the sources listed above is not necessary to construct the sand berm proposed in this application. The final quantity of material to be excavated from each borrow area will be dependent of several factors (losses in multiple handling, material makeup, compaction ratios, etc.). The important comparison to make is that the final “in place” quantity for all reaches is 65.2 million cubic yards and the quantity available for the borrow areas being considered is 216.2 million cubic yards.

**Borrow Area 6A**

From June 14, 2010 through June 22, 2010 Borrow Area 6A (located on the area map) was used as a temporary borrow site to begin work on the northernmost 2,000 L.F. of Reach E-4. On June 22<sup>nd</sup> work was suspended at Borrow Area 6A and the dredge was moved to Reach CH-B at Hewes Point. The borrow basin at Area 6A is being backfilled with material from Borrow Area CH-B at Hewes Point.

**Berm Alignment**

The emergency action request for the nineteen (19) berm reaches in this application were all located seaward of the current barrier islands. The footprint of all berms was to be placed in open water – completely within federal or state waterbottoms. Since filing of the emergency request, discussions have been held to allow placement of the berm at two reaches, Reach W-9 (Pelican Island) and W-10 (Scofield Island), actually on the islands within the footprint permitted for coastal restoration projects. The sand for this berm project would serve as a base for future, additional sand to placed in the same area as a reclamation project by the State of Louisiana. Final authorization for relocation of the berms at W-9 and W-10 from offshore to the current island footprint will be coordinated with the Corps of Engineers and other regulatory agencies during the weekly meetings being held as a part of the

emergency action to review all conditions and compliance issues associated with the NOD-20 authorization.

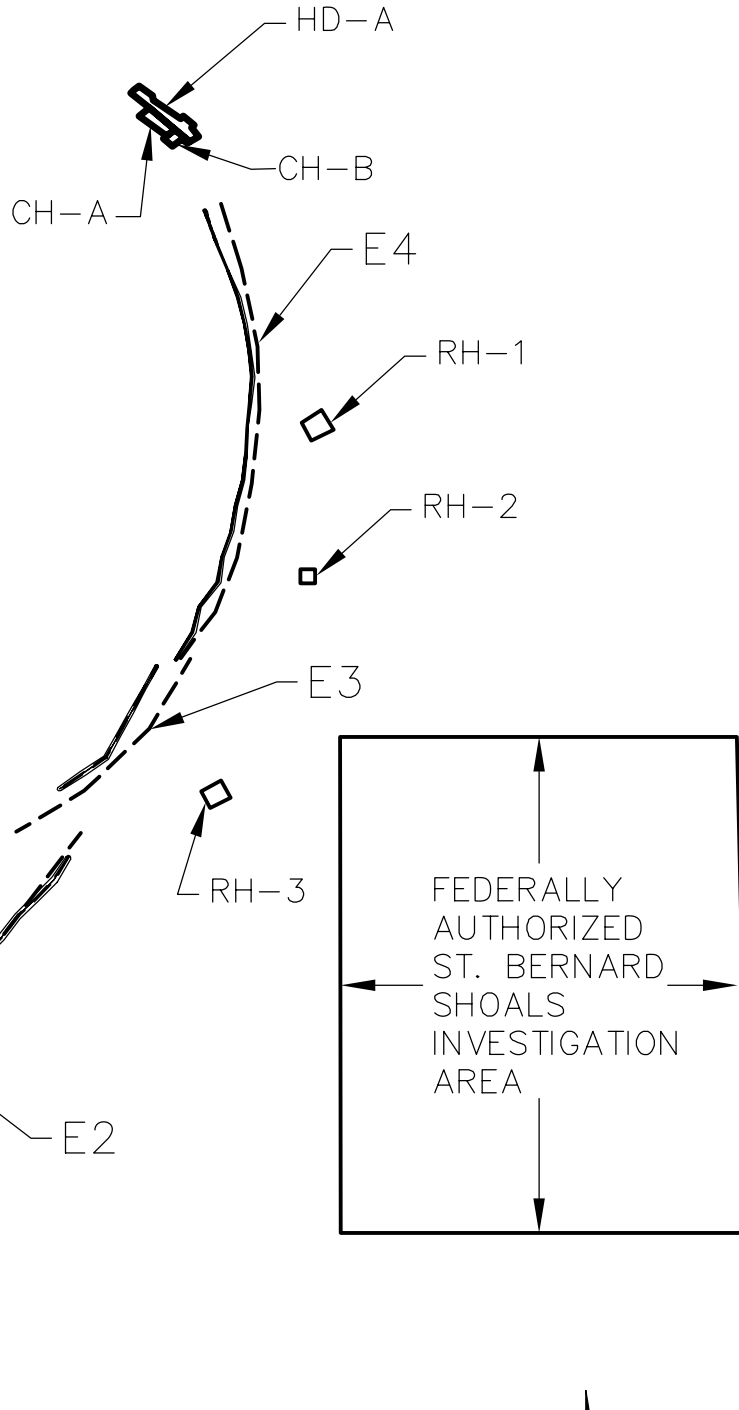
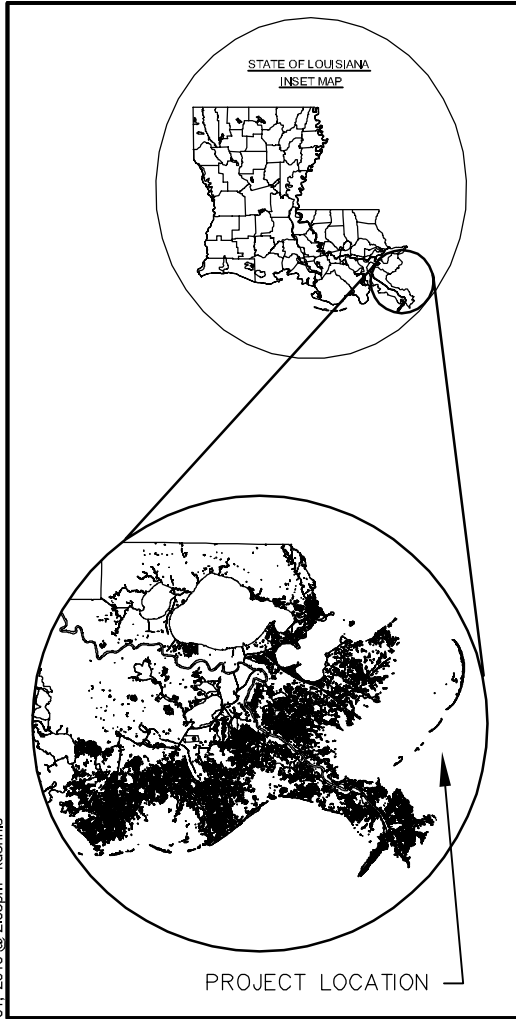
### **Construction Methodology**

**Cutterhead Only:** For the northernmost segment of Reach E-4, the material will be pumped to the berm directly by a cutterhead dredge pumping the material from the approved borrow areas in Hewes Point. Once adjacent to the island, the sand is shaped into the final berm alignment using grader equipment. All work being performed by the equipment at the berm site will remain within the footprint of the berm section or seaward of the berm.

**Combination of Hopper and Cutterhead Dredge:** All other reaches (exclusive of E-4) will be constructed using Hopper Dredges moving material from approved borrow sites (Hewes Point, St. Bernard Shoal, Pass-a-Loutré and Cubit's Gap in the Mississippi River, Ship Shoal, South Pelto, etc.) to pre-approved re-handling basins (35E, 25-5, RH-1, RH-2, RH-3, etc.). Once in the re-handling areas, the material is moved via Cutterhead dredges inland from the re-handling areas to the seaward side of the barrier islands. Once adjacent to the island, the sand is shaped into the final berm alignment using grader equipment. All equipment at the berm site work within the footprint of the berm section or seaward of the berm. (Note: The only exception to this method will occur on Reaches W-9 and W-10. For these two reaches, the material will be placed in an alignment on the island within the footprint of an authorized CPRA project or project currently under design for that island.)

## **Step 12 of 16: Affected Landowners**

All berm reaches, borrow sites, and re-handling areas will be located in open water owned by the State of Louisiana or the U.S. Federal Government with the exception of Reaches W-9 and W-10. Because the berm crosses ownership tracts, the list of "Affected Landowners" and "Adjacent Landowners" is the same list; therefore, the list of names shown in Step 7 are the same for Step 12 of the application.



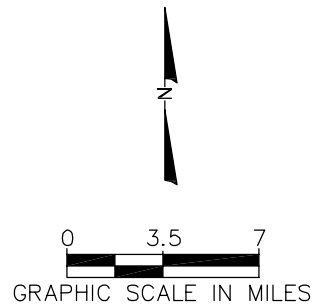
**LEGEND:**

- REVISED FOOTPRINT
- - - INITIALLY PROPOSED REACH

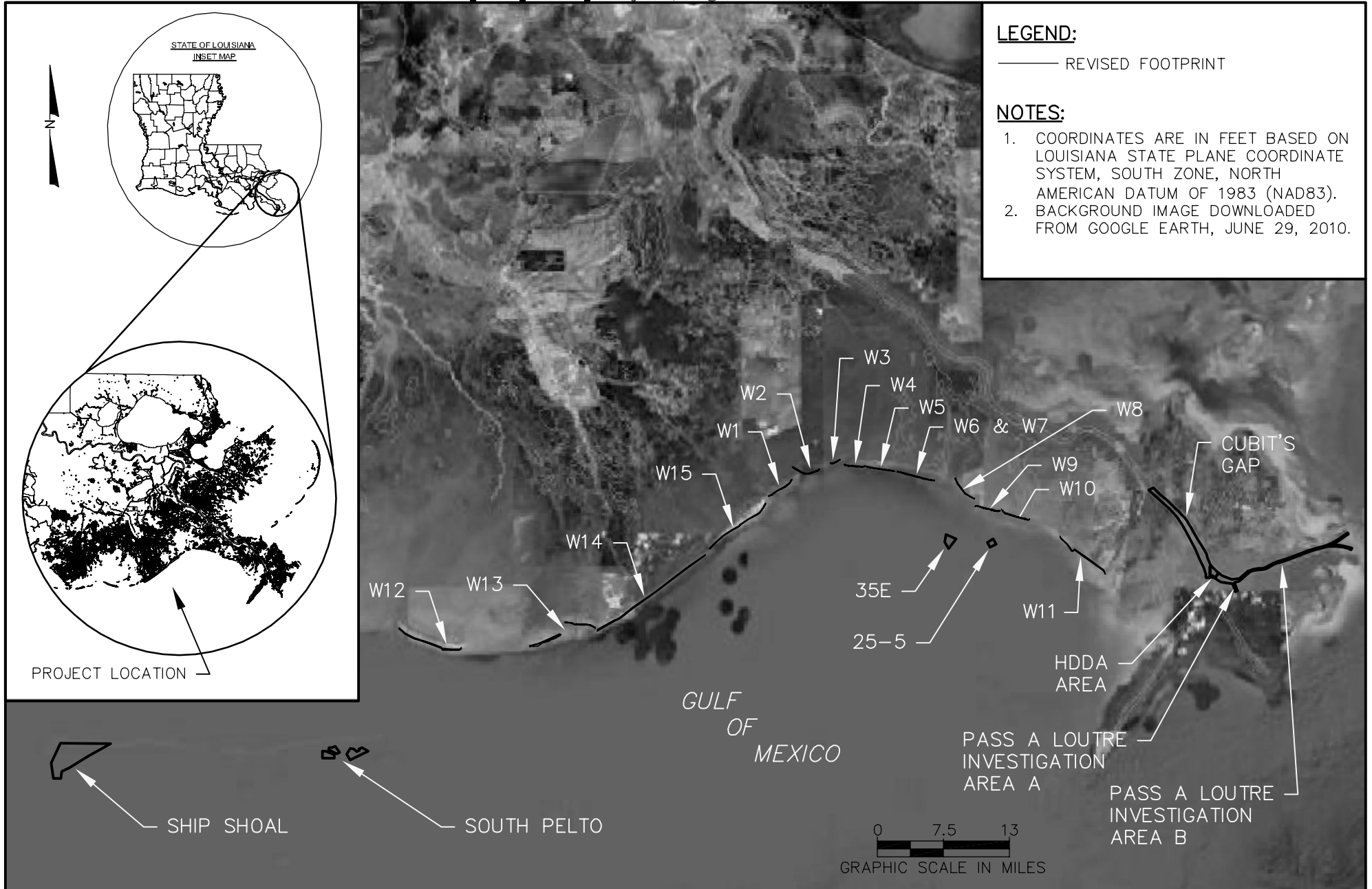
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

GULF OF MEXICO



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	REACHES E1 TO E4 EMERGENCY PERMIT  STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	LOCATION MAP  DATE: 6/29/10 SHEET 1 OF 1
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>REACHES W1 TO W15 EMERGENCY PERMIT</b>	<b>LOCATION MAP</b>	
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	DATE: 6/29/10  SHEET 1 OF 1

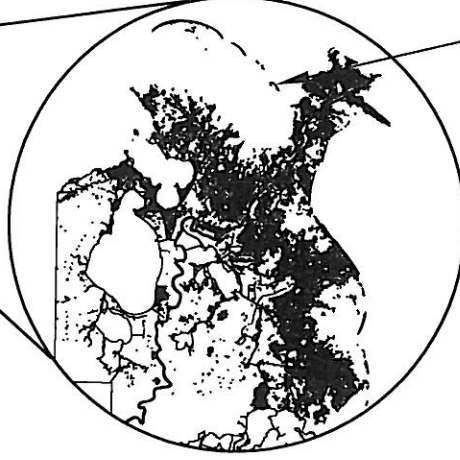
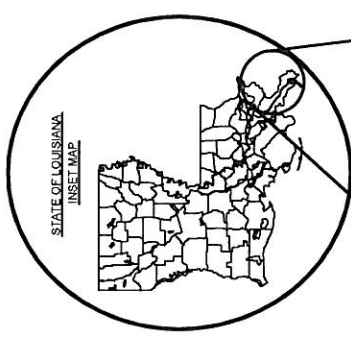
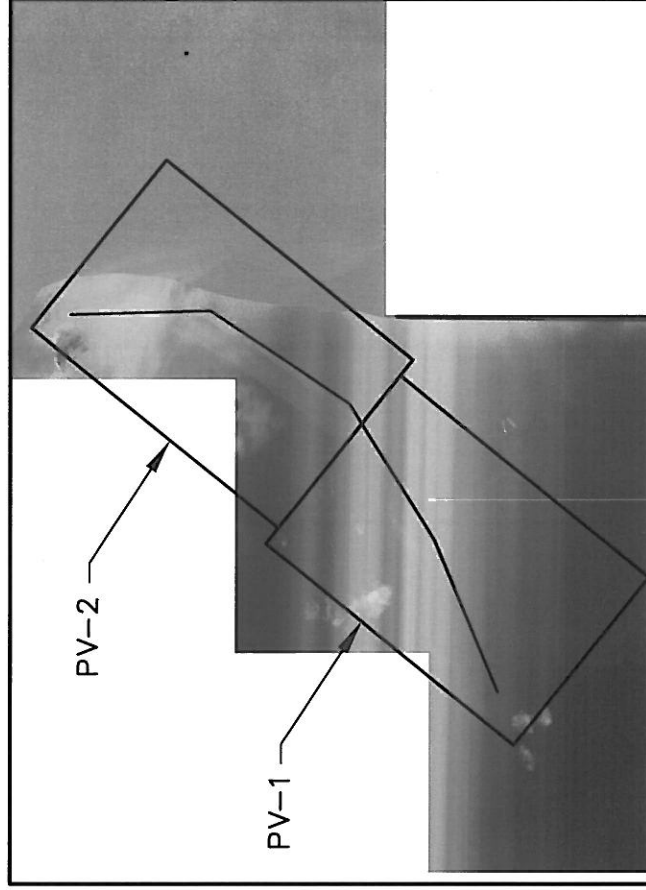


STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT E1  
 BRETON ISLAND

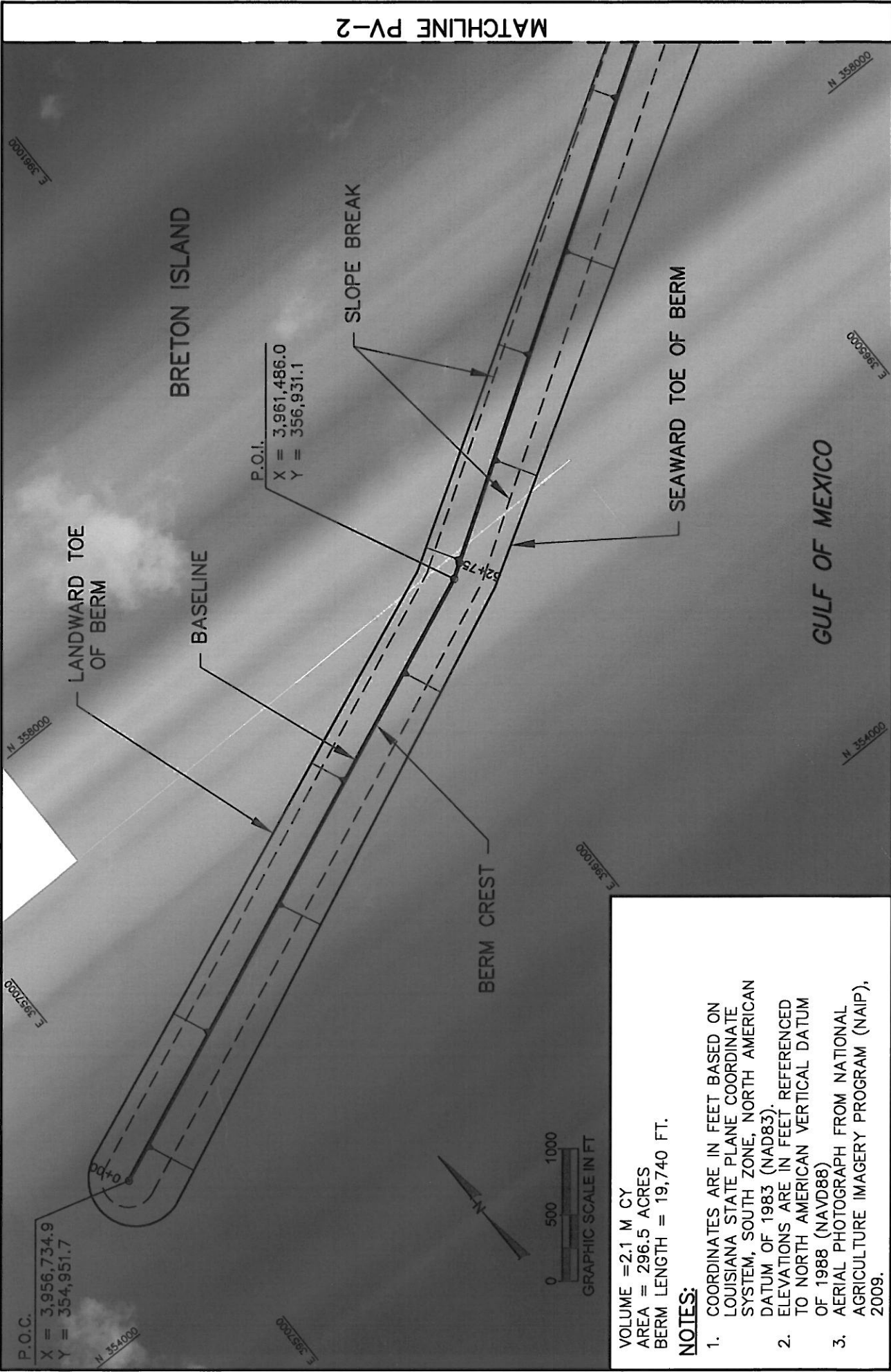
INDEX TO SHEETS

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2-3	PLAN VIEWS
4-5	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	TITLE SHEET DEFENSE	SEGMENT E1 TITLE SHEET
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 1 OF 5



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**AREA = 296.5 ACRES**  
**BERM LENGTH = 19,740 FT.**

**NOTES:**

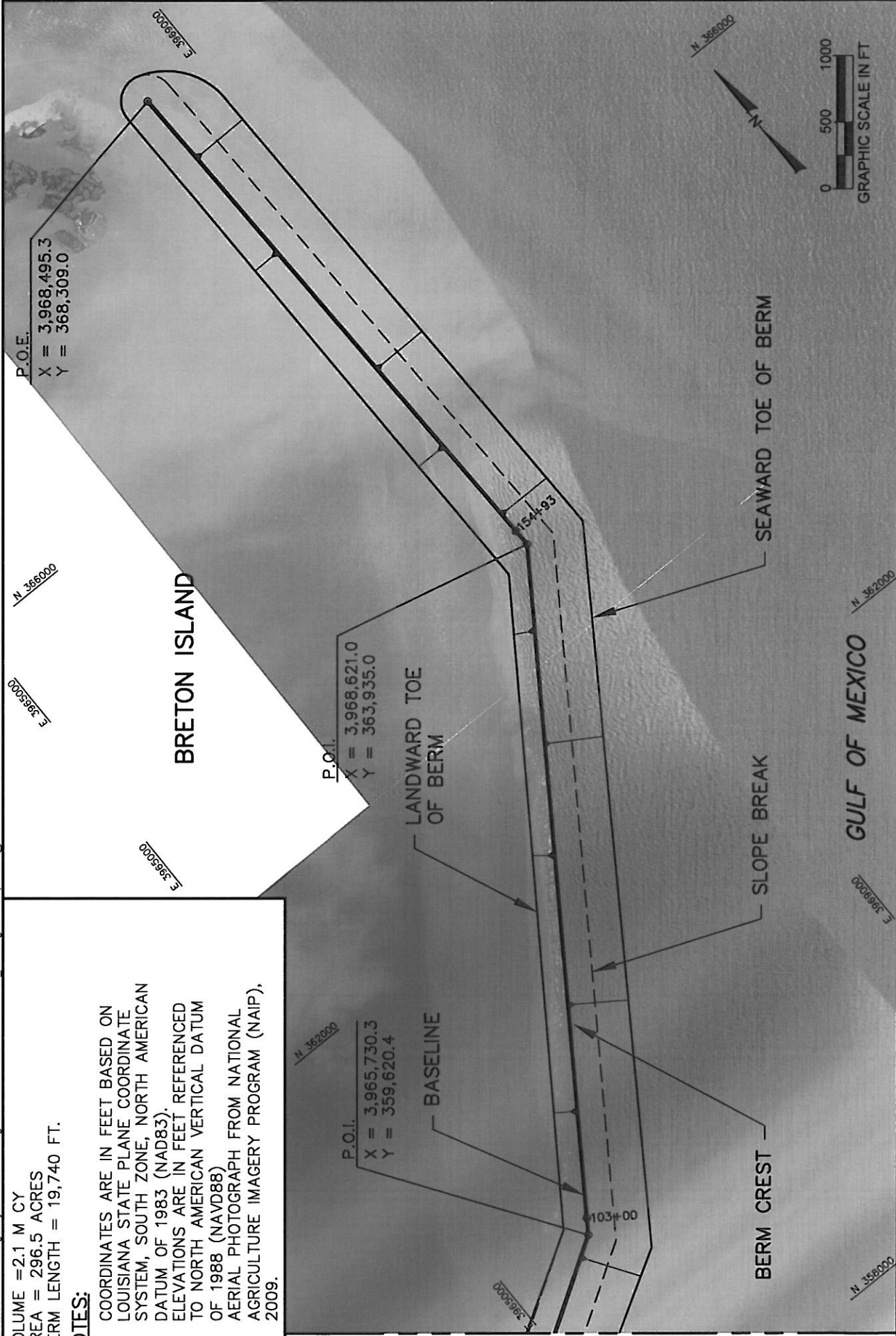
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- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

<p>APPLICATION BY:                  OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION  <b>ENGINEERING BRANCH</b>                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>SEGMENT E1                  PLAN VIEW</p>
<p>DRAWN BY:</p>	<p>DESIGNED BY:</p>	<p>STATE PROJECT NUMBER:                  FEDERAL PROJECT NUMBER:</p>	<p>DATE: 06/27/10                  SHEET 2 OF 5</p>

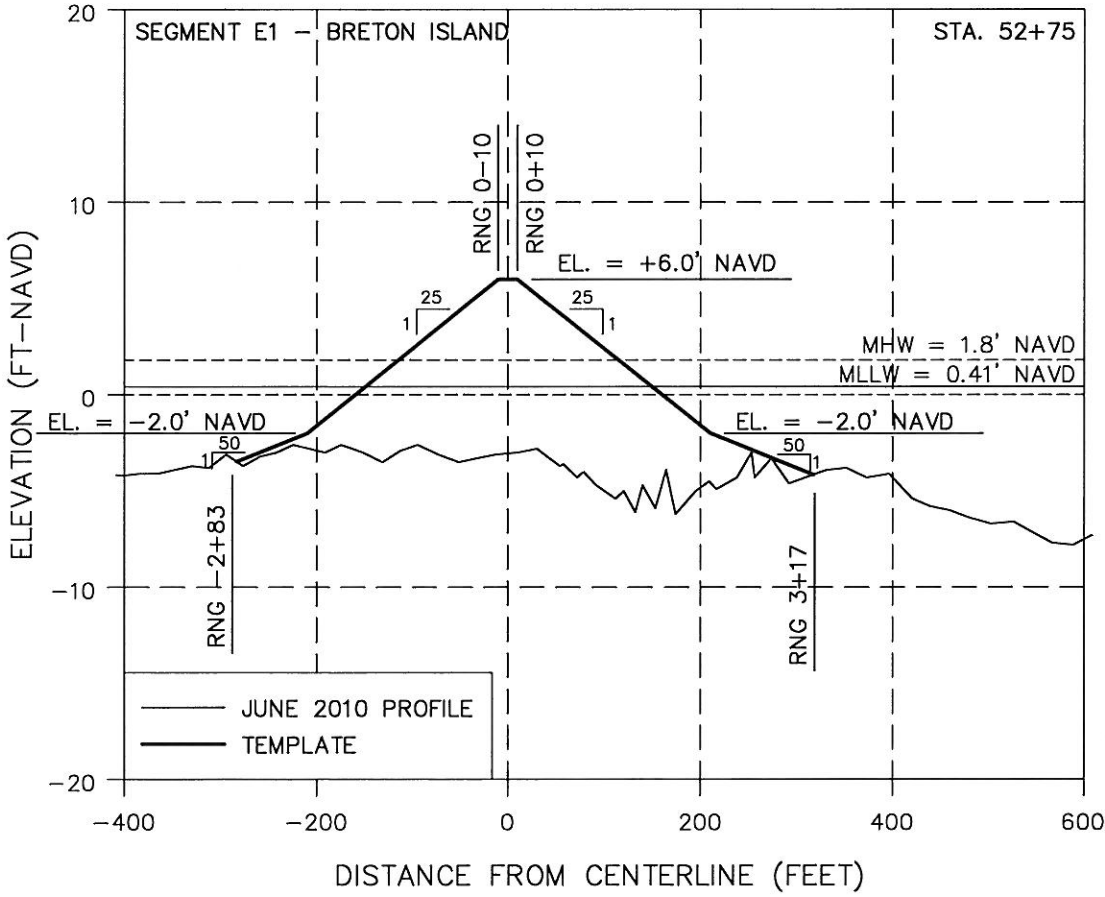
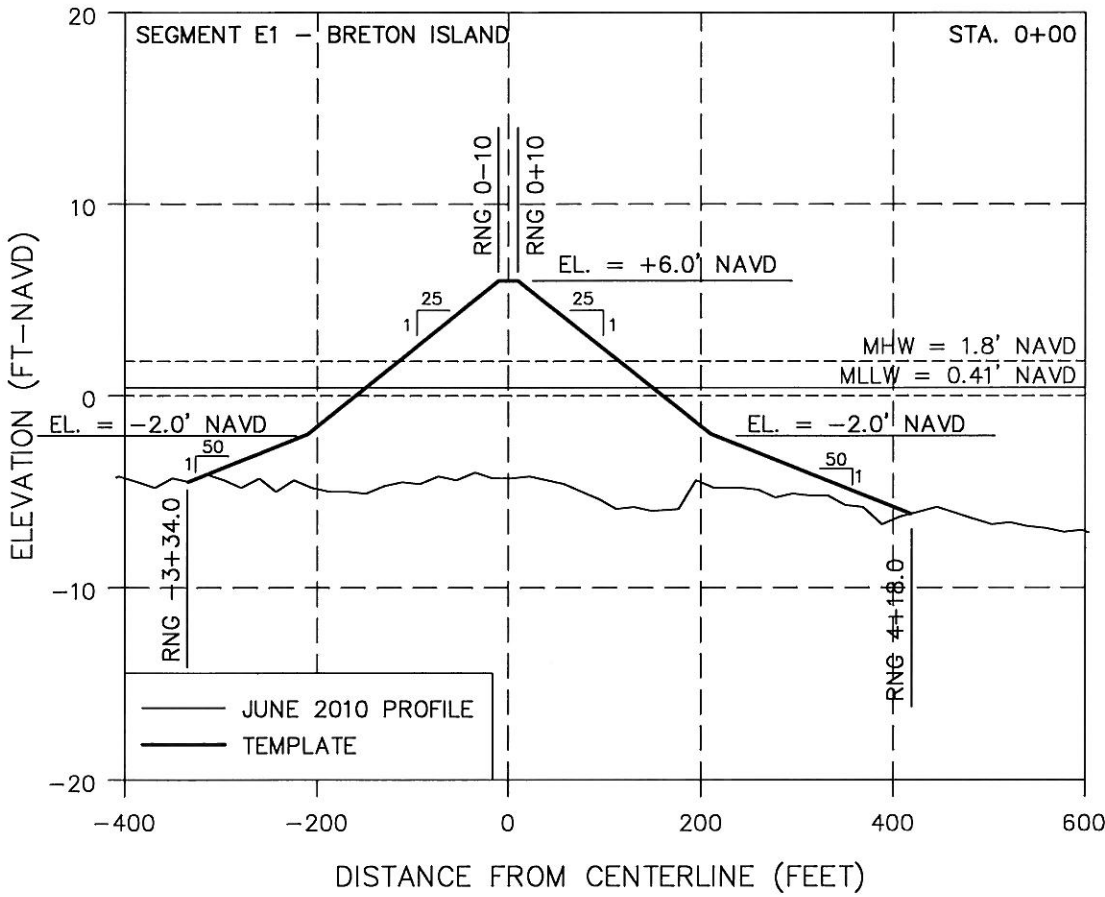
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 AREA = 296.5 ACRES  
 BERM LENGTH = 19,740 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
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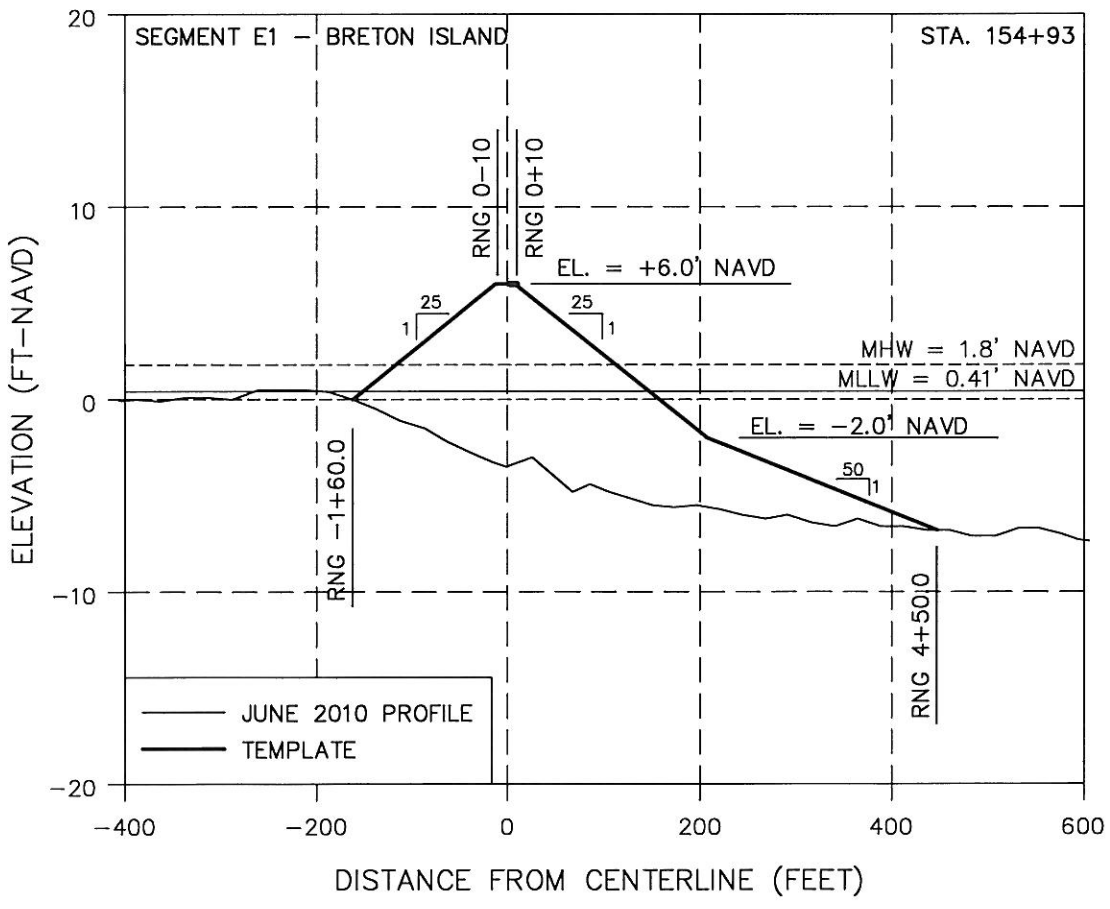
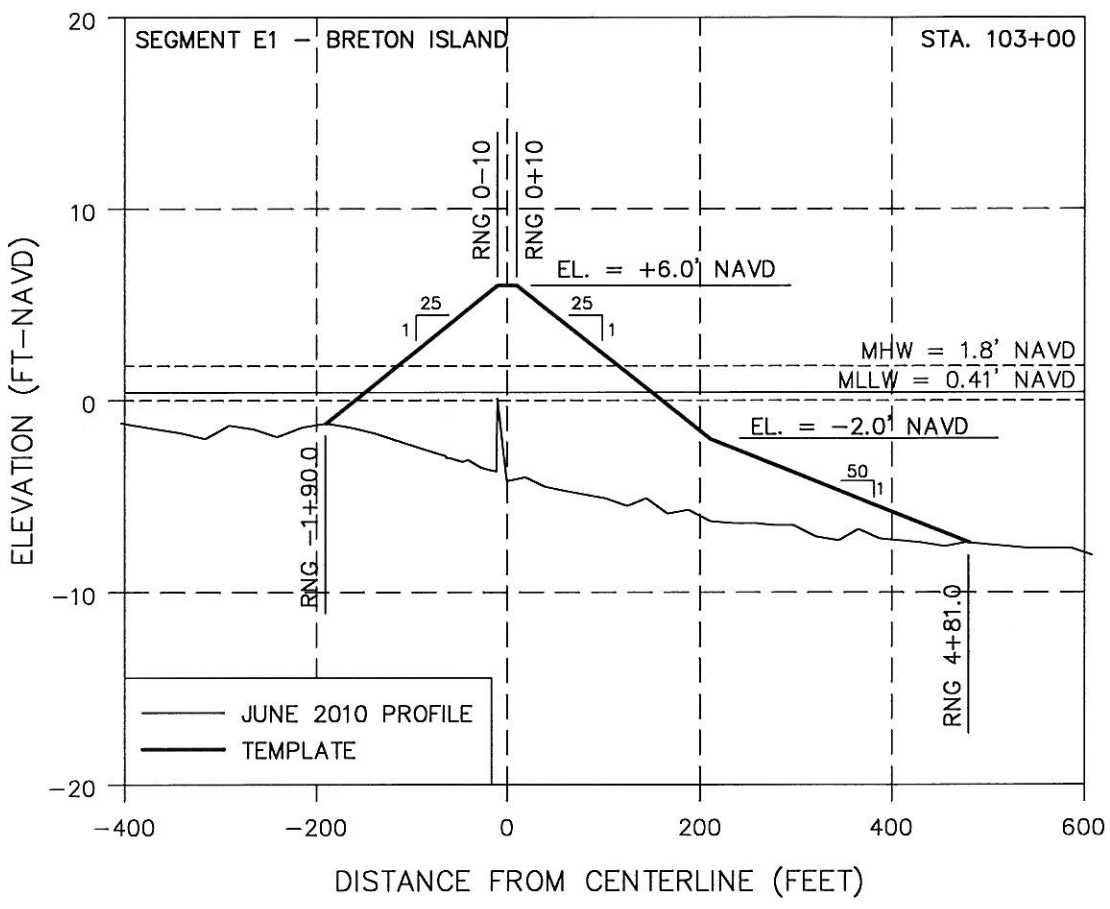
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAJUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAJUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE  STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	SEGMENT E1 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/28/10
SHEET 3 OF 5			SHEET 3 OF 5



F:\Louisiana\2003\ Emergency Dam Permitting\AD\FERMITTEE\REVIEWS\AS.DWG - JUN 20, 2010 @ 10:38am - 11/01/10

SEGMENT E1 PROFILES	DATE: 6/19/2010 SHEET 4 OF 5
BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: DRAWN BY:

F:\Louisiana\2007 Emergency Detritus Removal\13-015\13-015-010.dwg - Jun 16, 2010 10:00:11 AM - r1101111



<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>SEGMENT E1</b> <b>PROFILES</b>	DATE: 6/19/2010 SHEET 5 OF 5
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
DRAWN BY:	APPROVED BY:		

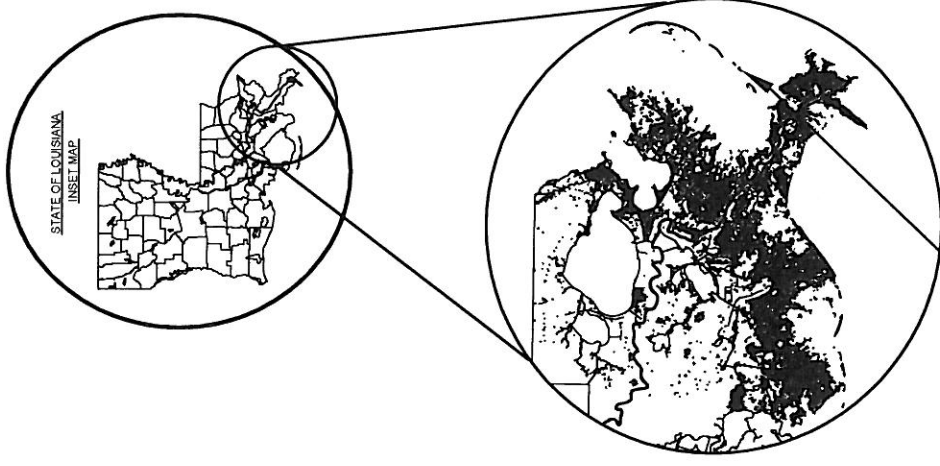
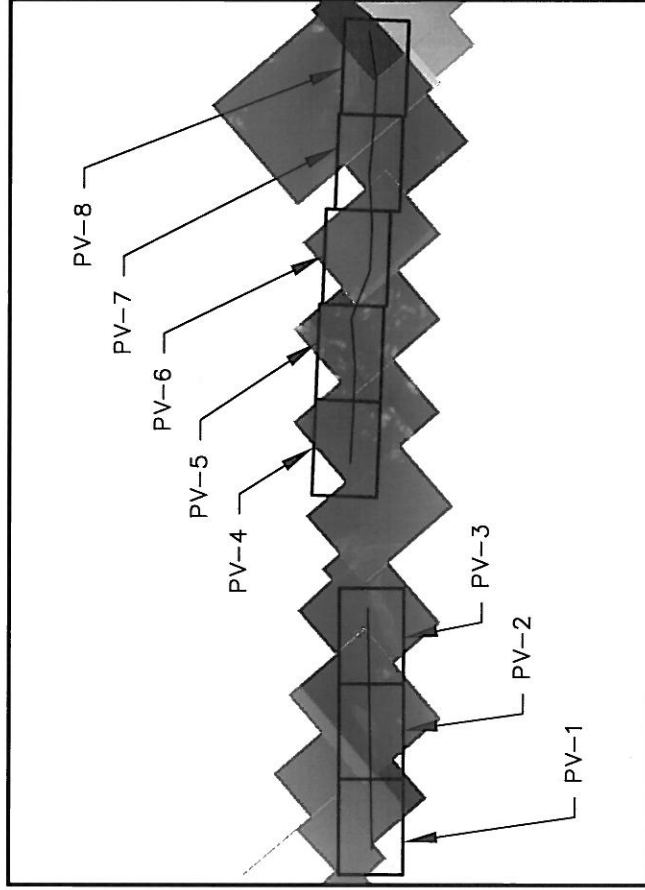
**STATE OF LOUISIANA**  
**OFFICE OF COASTAL PROTECTION AND RESTORATION**  
**ENGINEERING BRANCH**

**SEGMENT E2**  
**GRAND GOSIER ISLAND**

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- 10-17    PROFILES

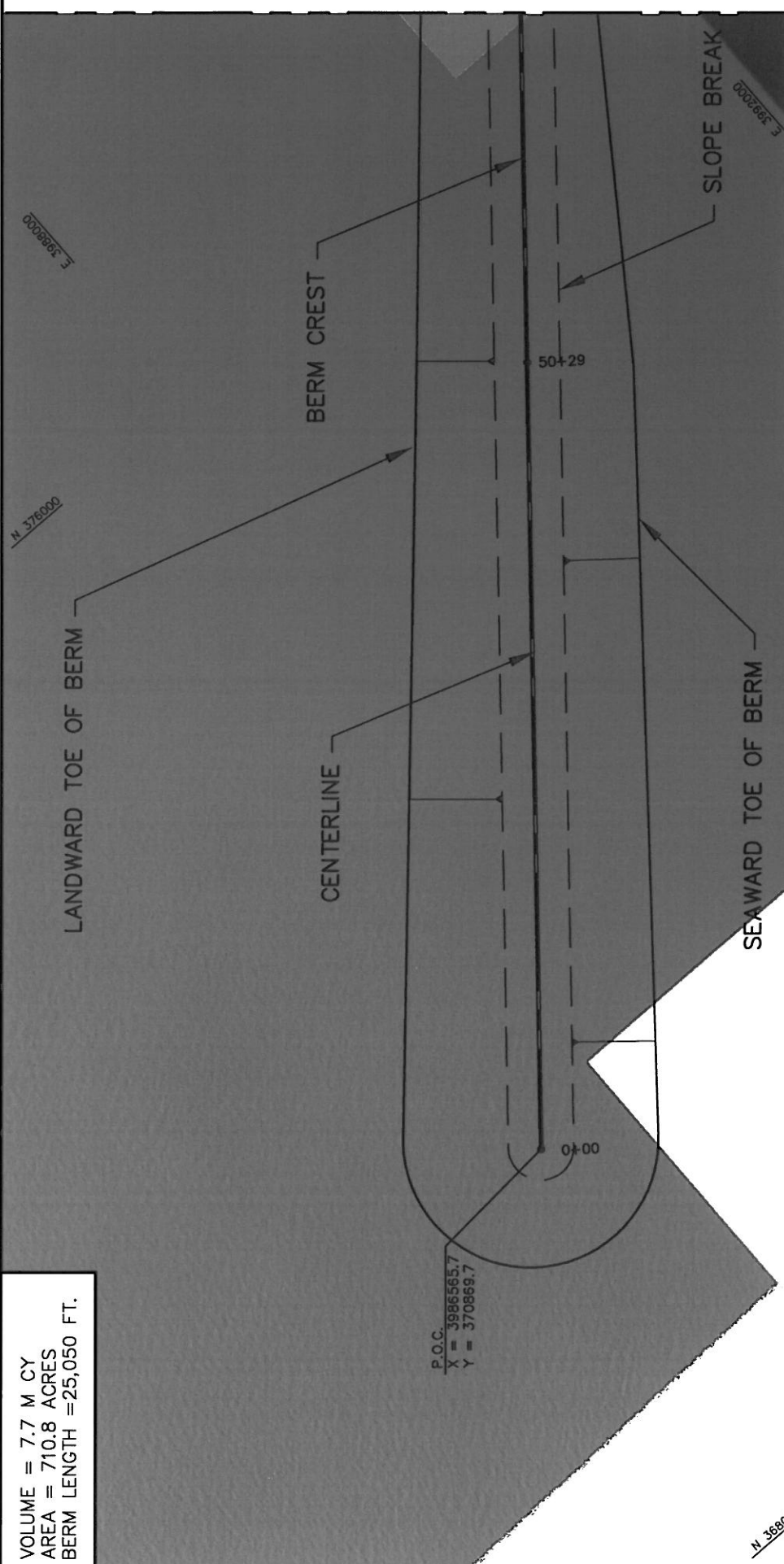


PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801	BARRIER ISLAND DEFENSE	SEGMENT E2 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/22/10
STATE PROJECT NUMBER:		SHEET 1 OF 17	
FEDERAL PROJECT NUMBER:		SHEET 1 OF 17	

VOLUME = 7.7 M CY  
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 BERM LENGTH = 25,050 FT.

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 Y = 3708889.7



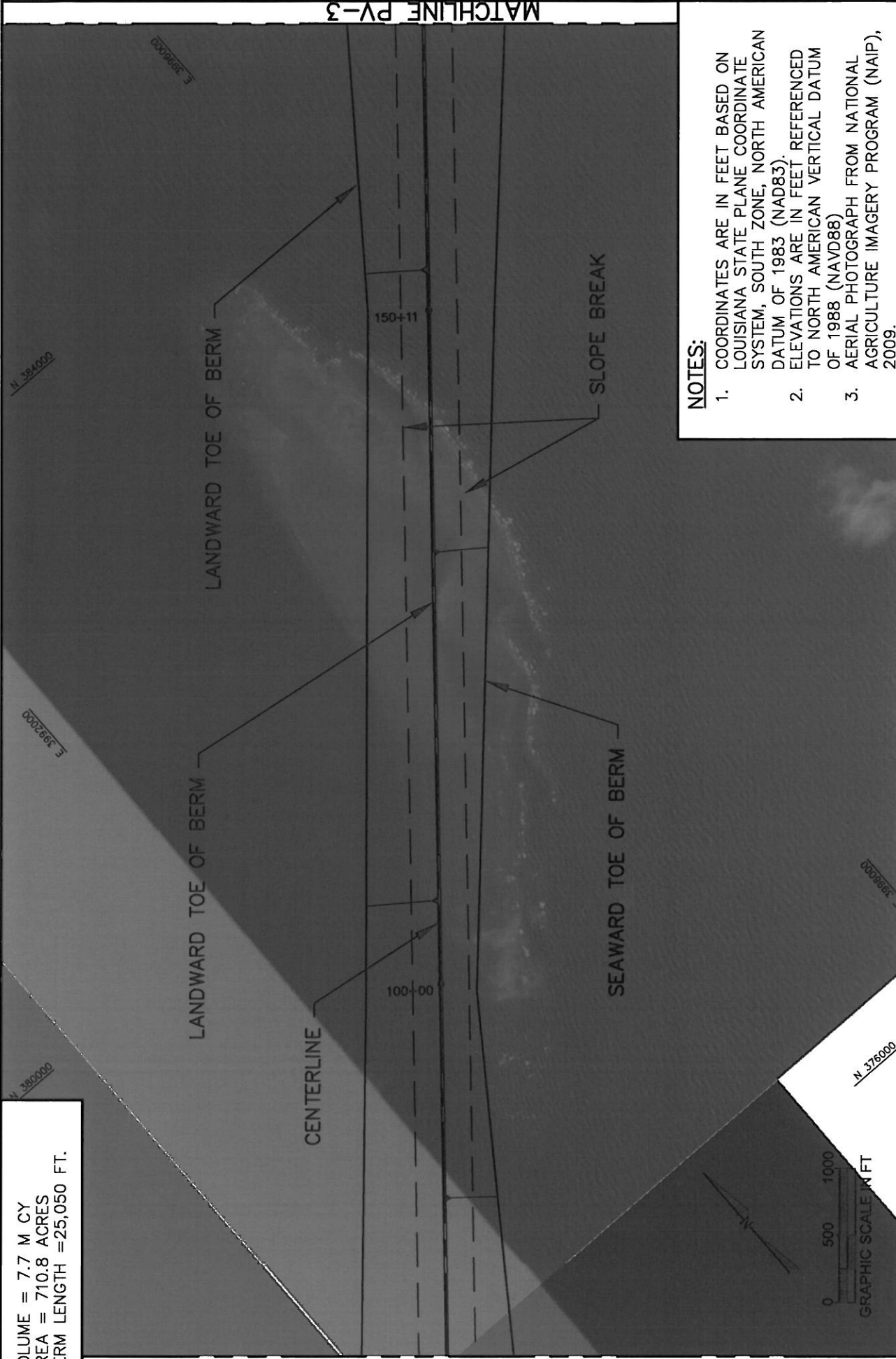
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**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E2 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 17

VOLUME = 7.7 M CY  
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 BERM LENGTH = 25,050 FT.

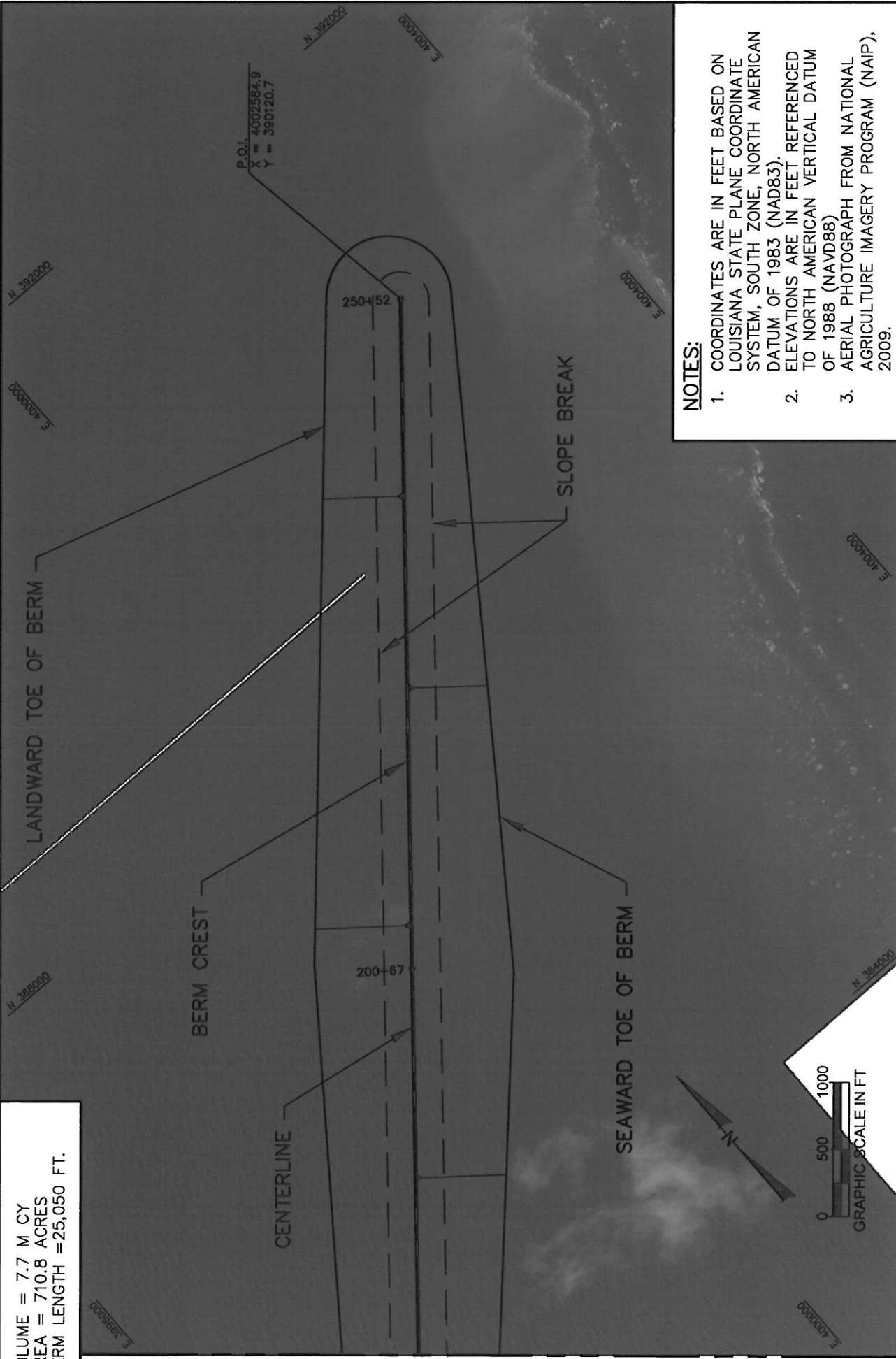


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DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 17





VOLUME = 7.7 M CY  
 AREA = 710.8 ACRES  
 BERM LENGTH = 25,050 FT.

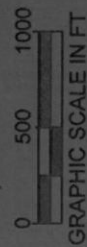
MATCHLINE PV-2

- NOTES:**
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DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 4 OF 17

VOLUME = 11.2M CY  
 AREA = 1215.6 ACRES  
 BERM LENGTH = 45,340

P.O.C.  
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 Y = 402745.4



LANDWARD TOE OF BERM

BERM CREST

CENTERLINE

SEAWARD TOE OF BERM

SLOPE BREAK

452+11

402+71

MATCHLINE PV-5

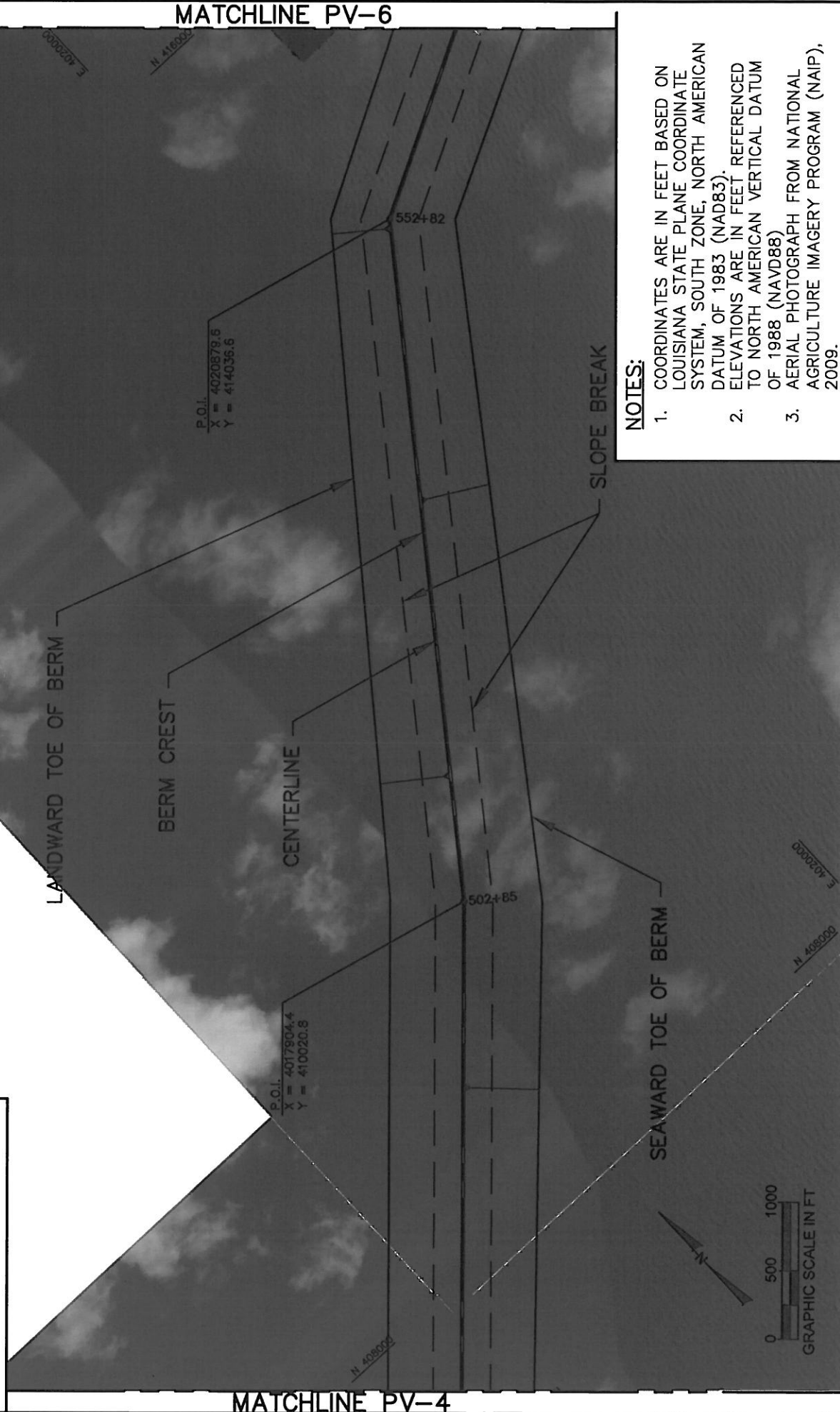
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**NOTES:**

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DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 5 OF 17

VOLUME = 11.2M CY  
 AREA = 1215.6 ACRES  
 BERM LENGTH = 45,340



**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DESIGNED BY:  
 APPROVED BY:

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

DATE: 6/19/10  
 SHEET 6 OF 17

SEGMENT E2  
 PLAN VIEW

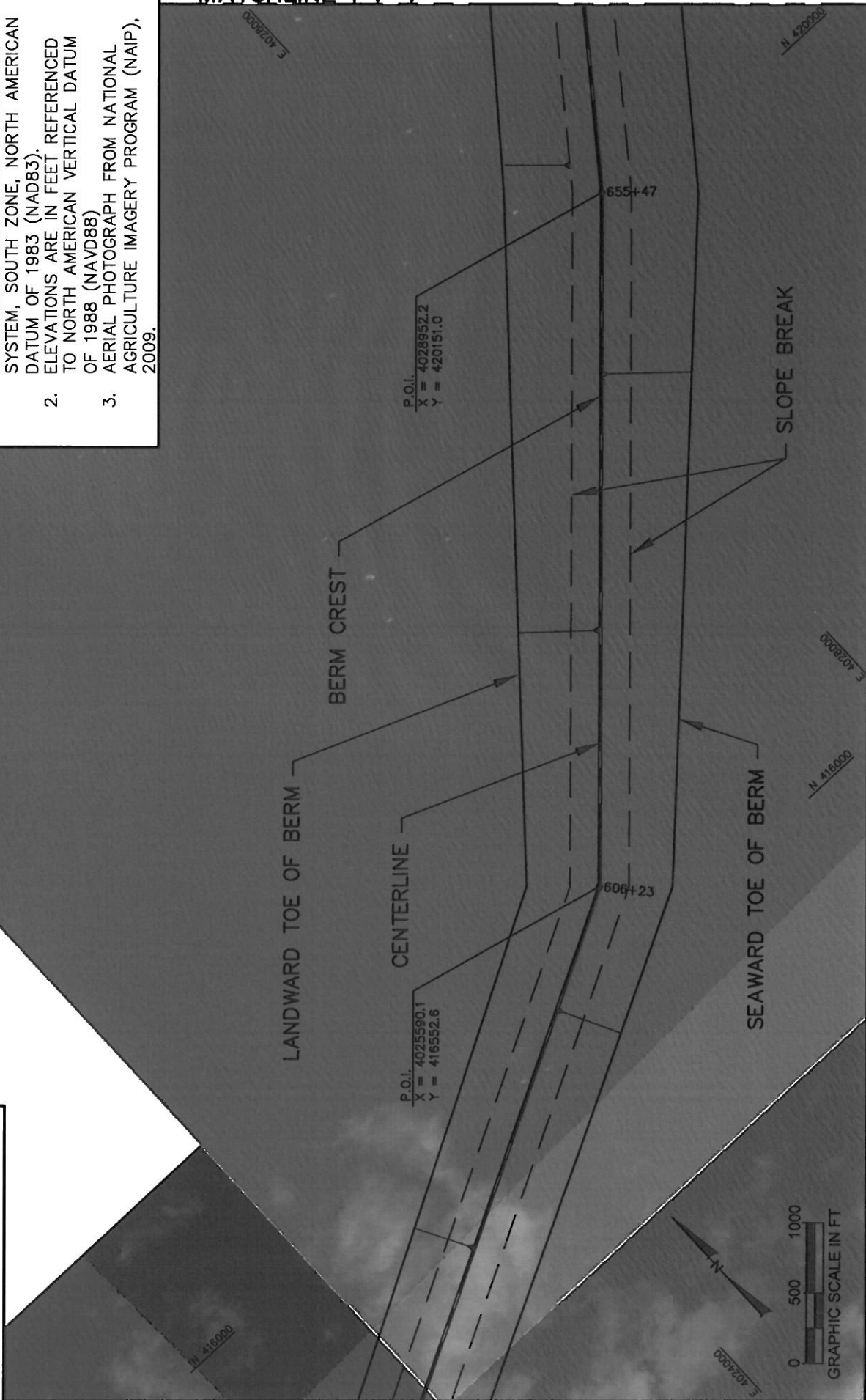
VOLUME = 11.2M CY  
 AREA = 1215.6 ACRES  
 BERM LENGTH = 45,340

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-7

MATCHLINE PV-5



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

SEGMENT E2  
 PLAN VIEW

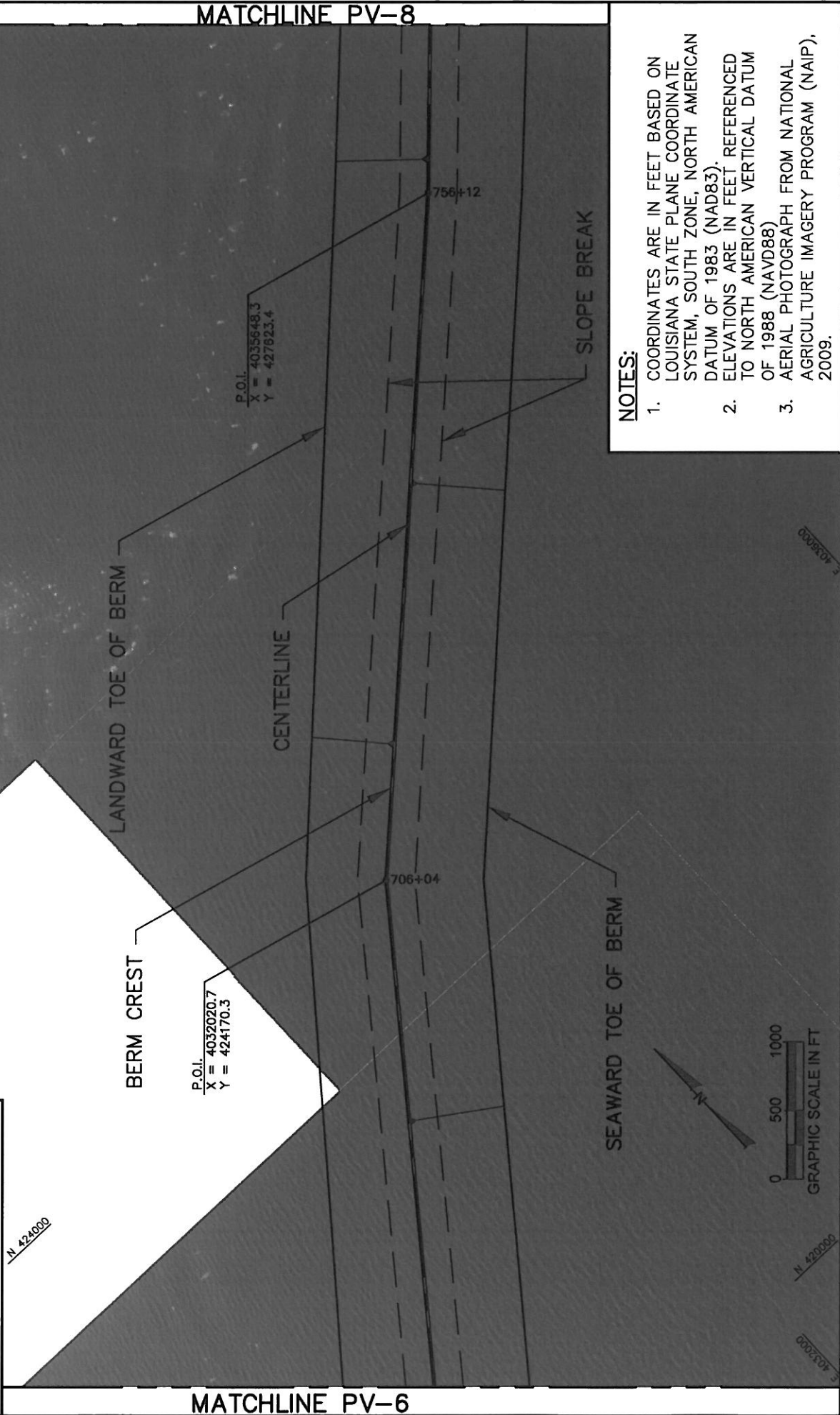
DATE: 6/19/10  
 SHEET 7 OF 17

DRAWN BY:

DESIGNED BY:

APPROVED BY:

VOLUME = 11.2M CY  
 AREA = 1215.6 ACRES  
 BERM LENGTH = 45,340



**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
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3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E2 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 8 OF 17

VOLUME = 11.2M CY  
 AREA = 1215.6 ACRES  
 BERM LENGTH = 45,340

LANDWARD TOE OF BERM

BERM CREST

CENTERLINE

SEAWARD TOE OF BERM

SLOPE BREAK

P.O.E.  
 X = 434771.5  
 Y = 433471.6

P.O.I.  
 X = 4039113.3  
 Y = 431269.2

658+98

605+42



GRAPHIC SCALE IN FT

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-7

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE  
 SEGMENT E2  
 PLAN VIEW

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

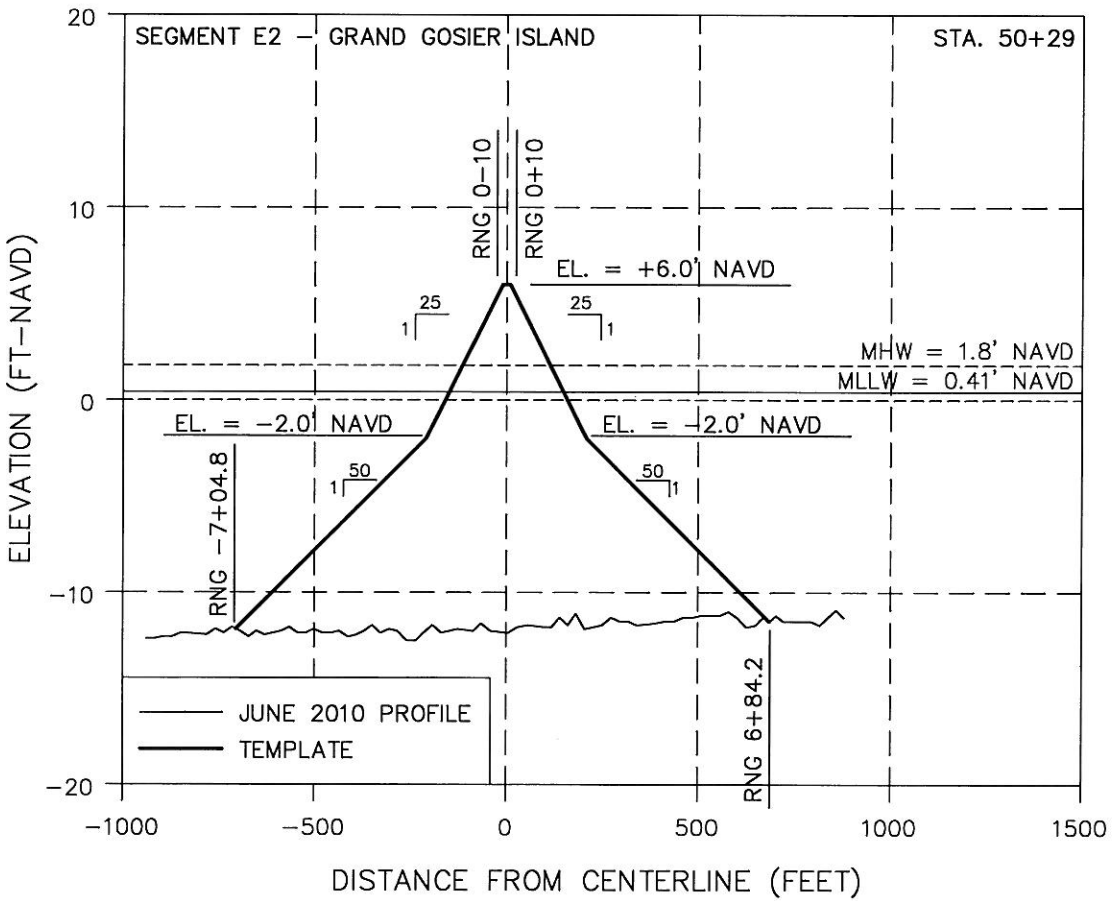
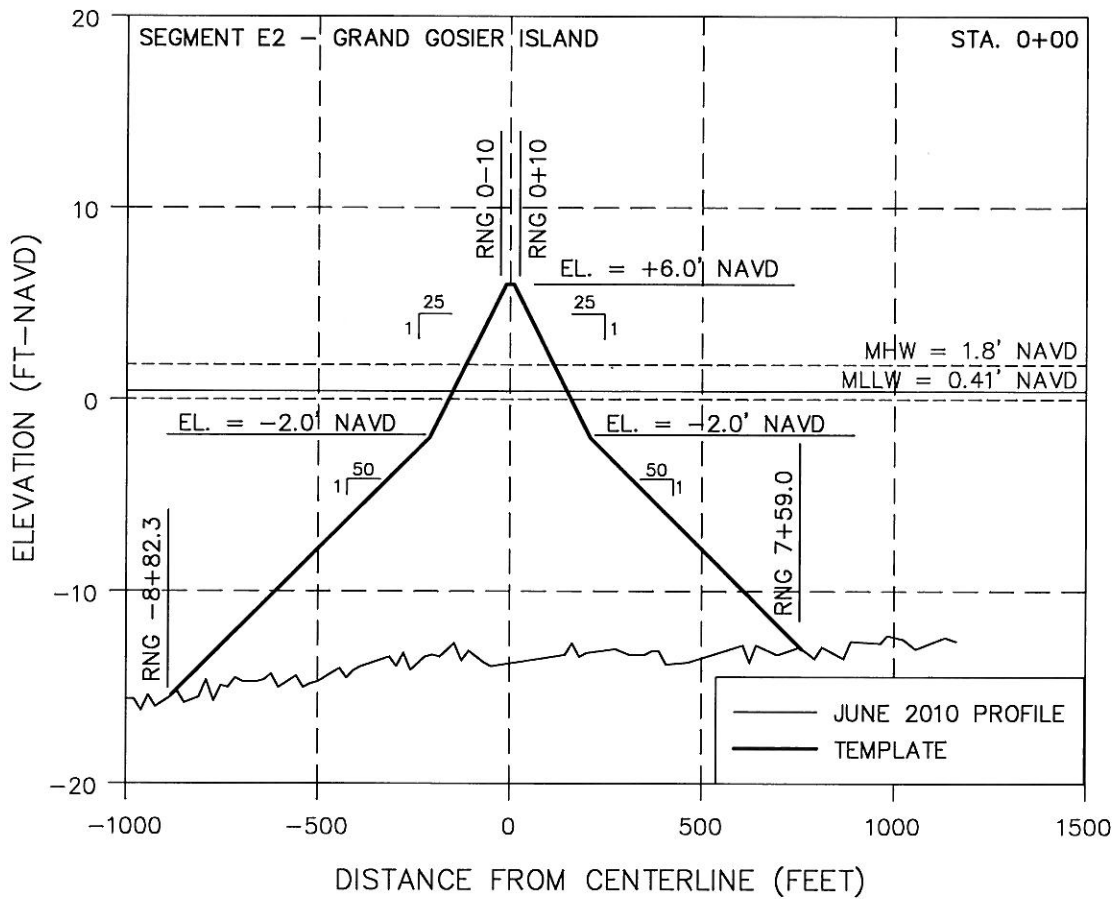
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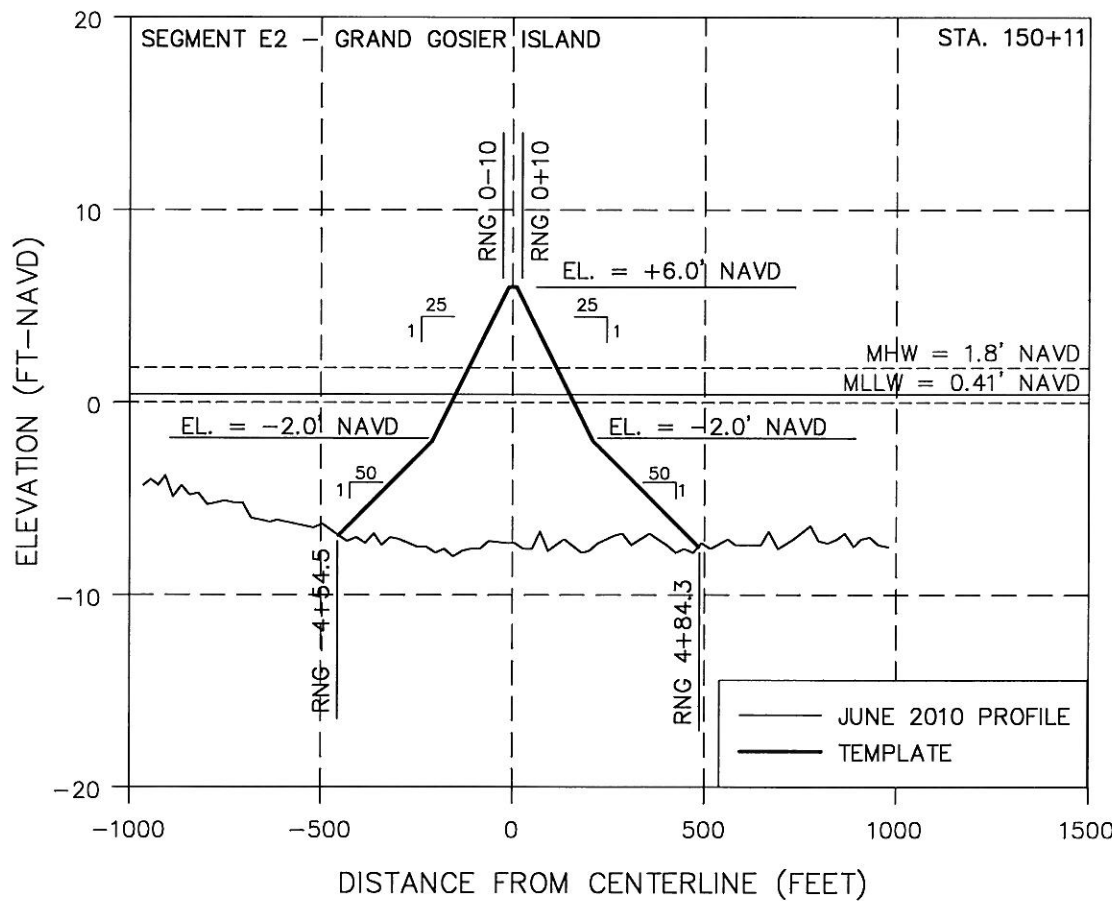
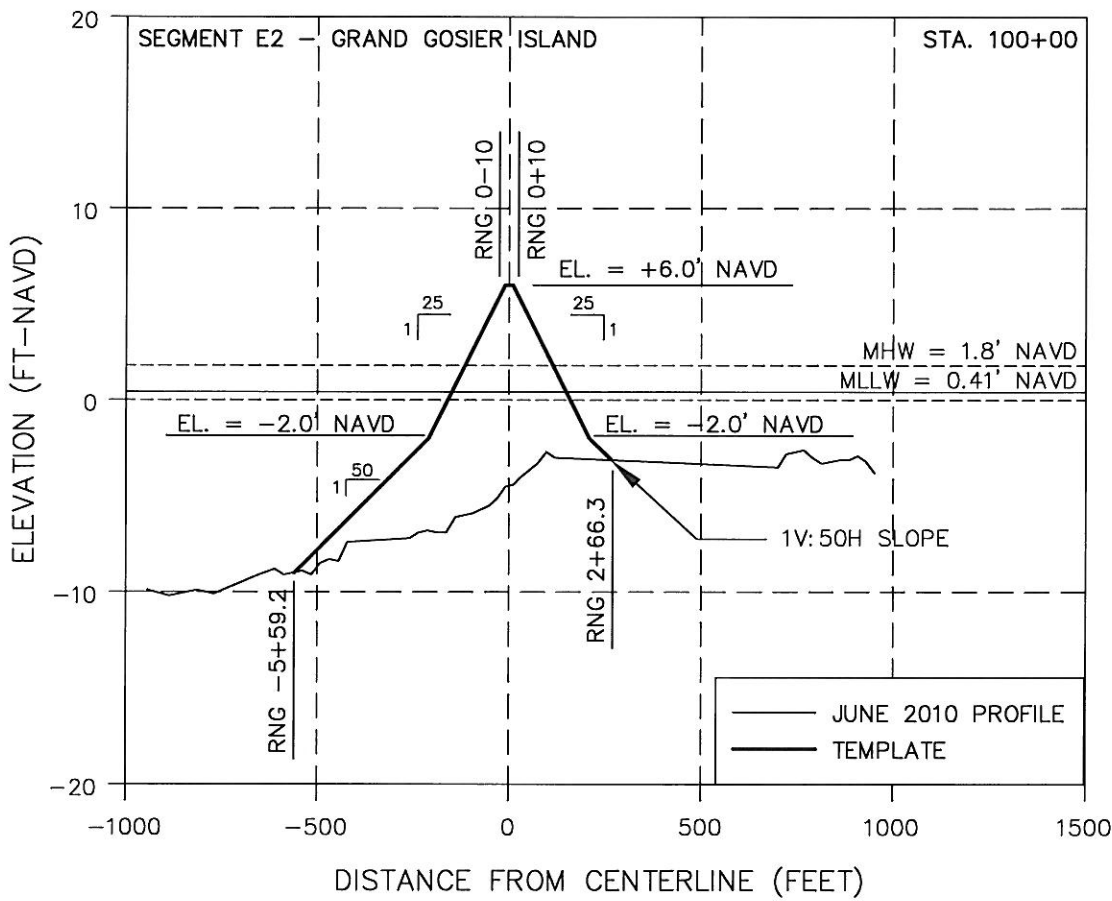
DESIGNED BY:

APPROVED BY:

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	<b>SEGMENT E2 PROFILES</b>	DATE: 6/19/2010	SHEET 10 OF 17
<b>BARRIER ISLAND DEFENSE</b>	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801			
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	APPROVED BY:	
DRAWN BY: A. BELDEN			



SEGMENT E2  
PROFILES

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE:

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

SHEET 11 OF 17

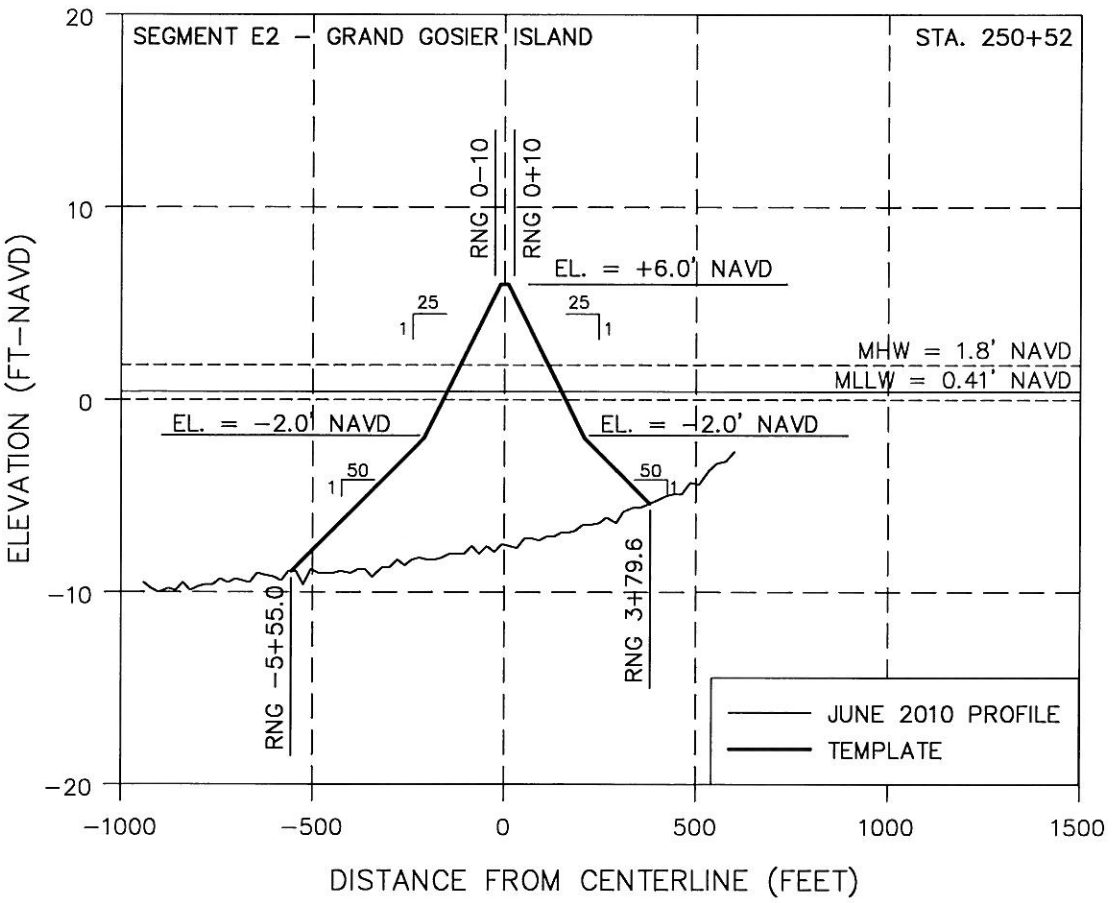
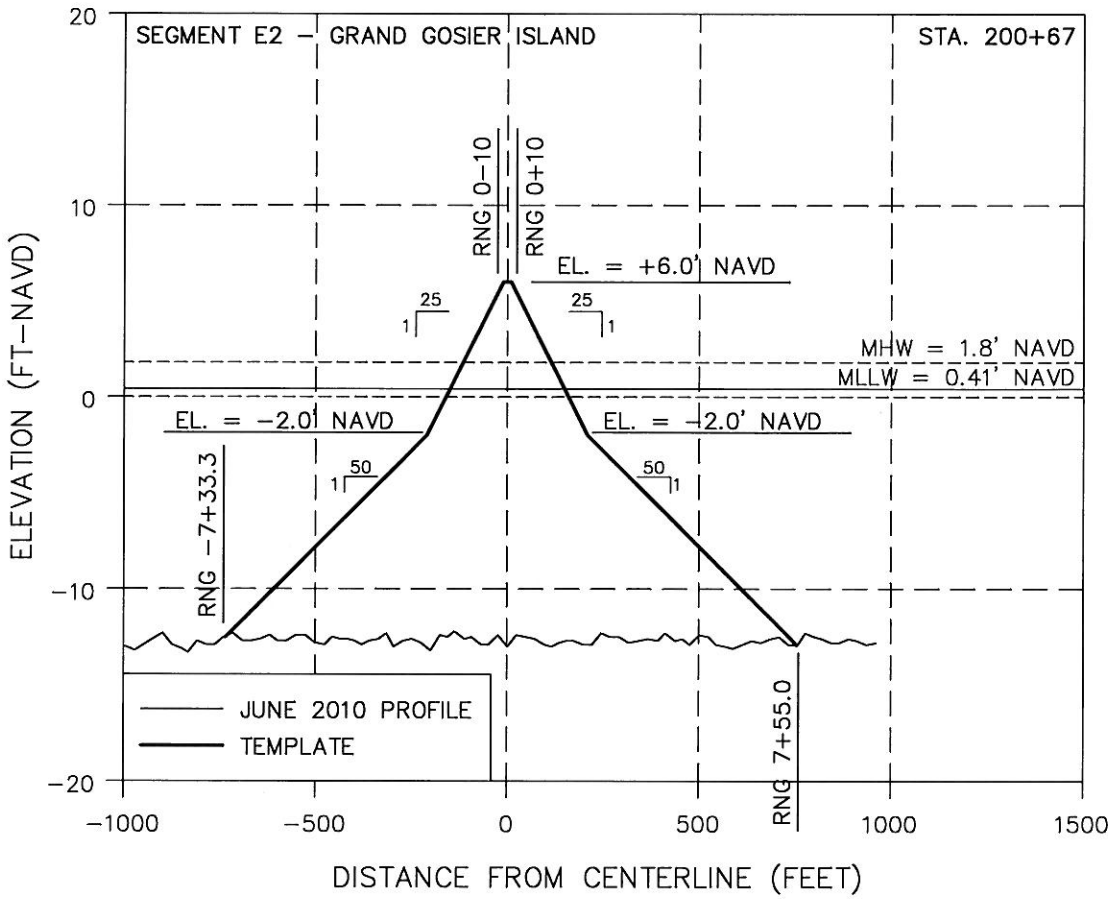
APPROVED BY:

DESIGNED BY:

DRAWN BY:

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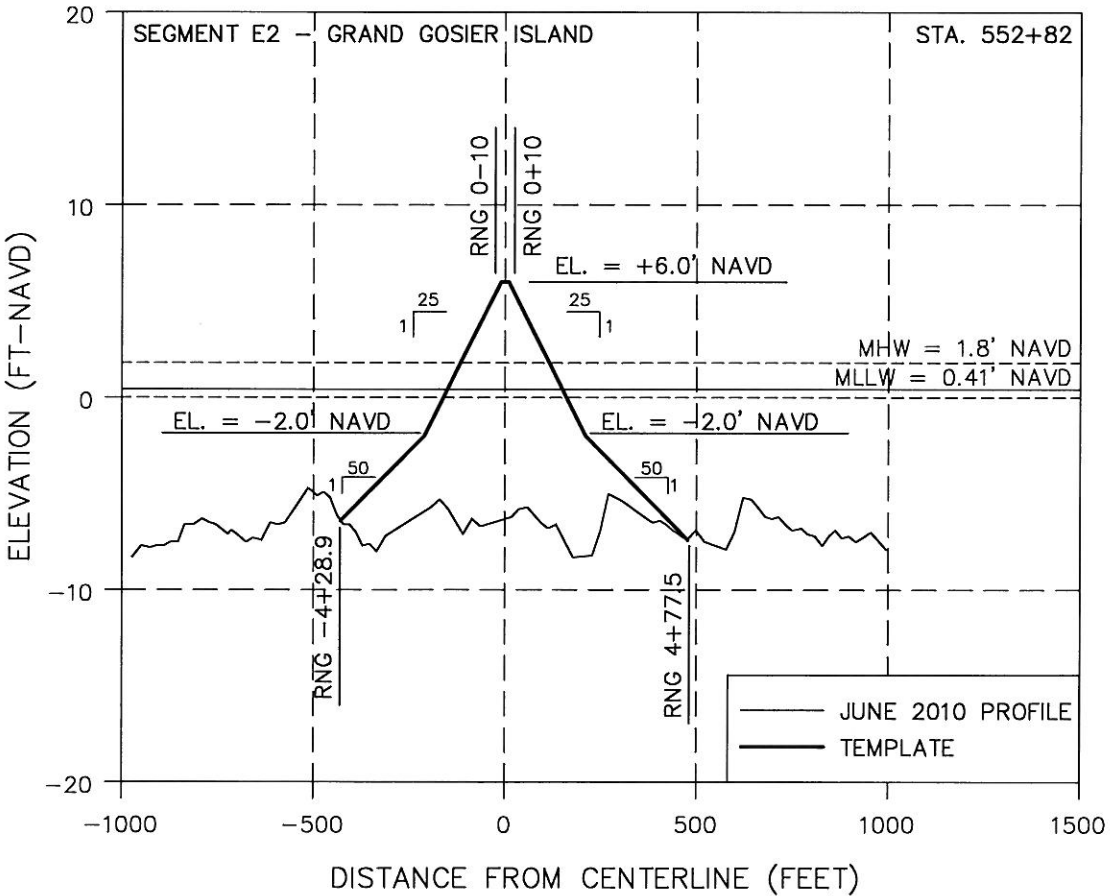
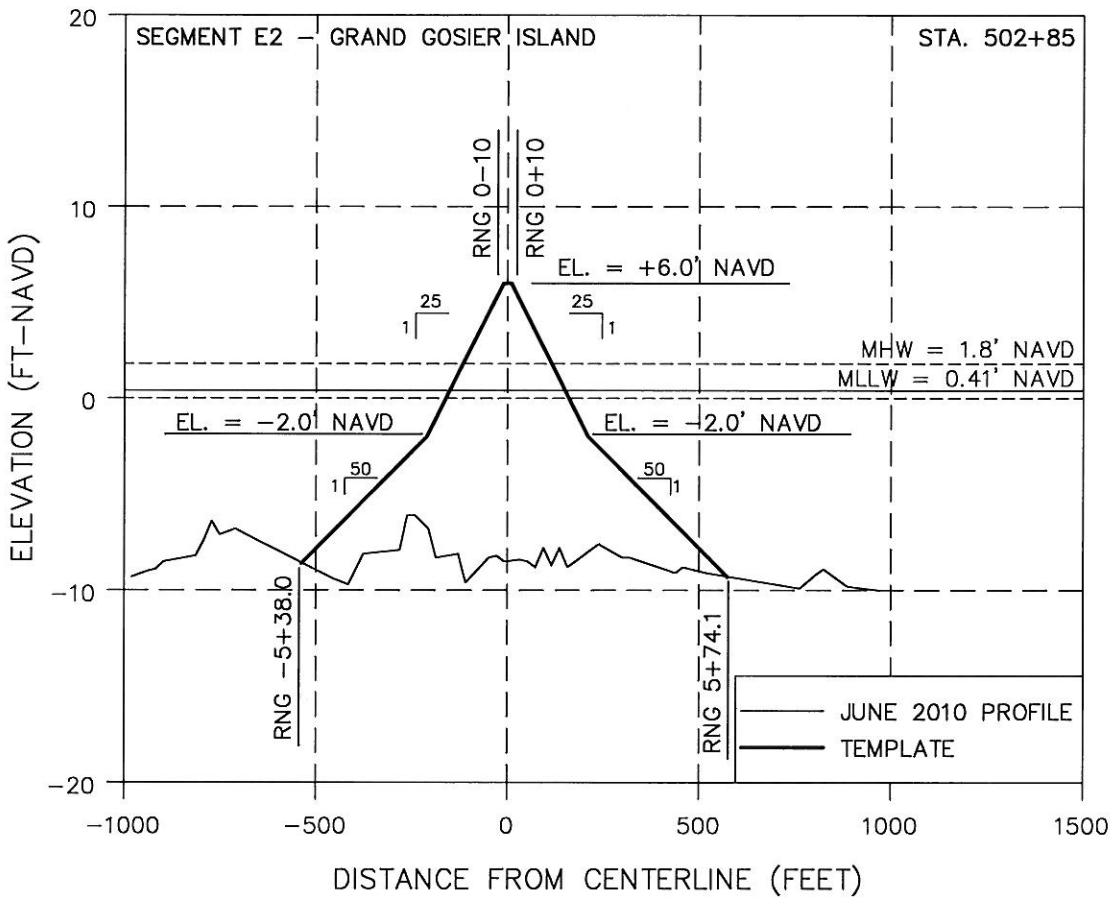




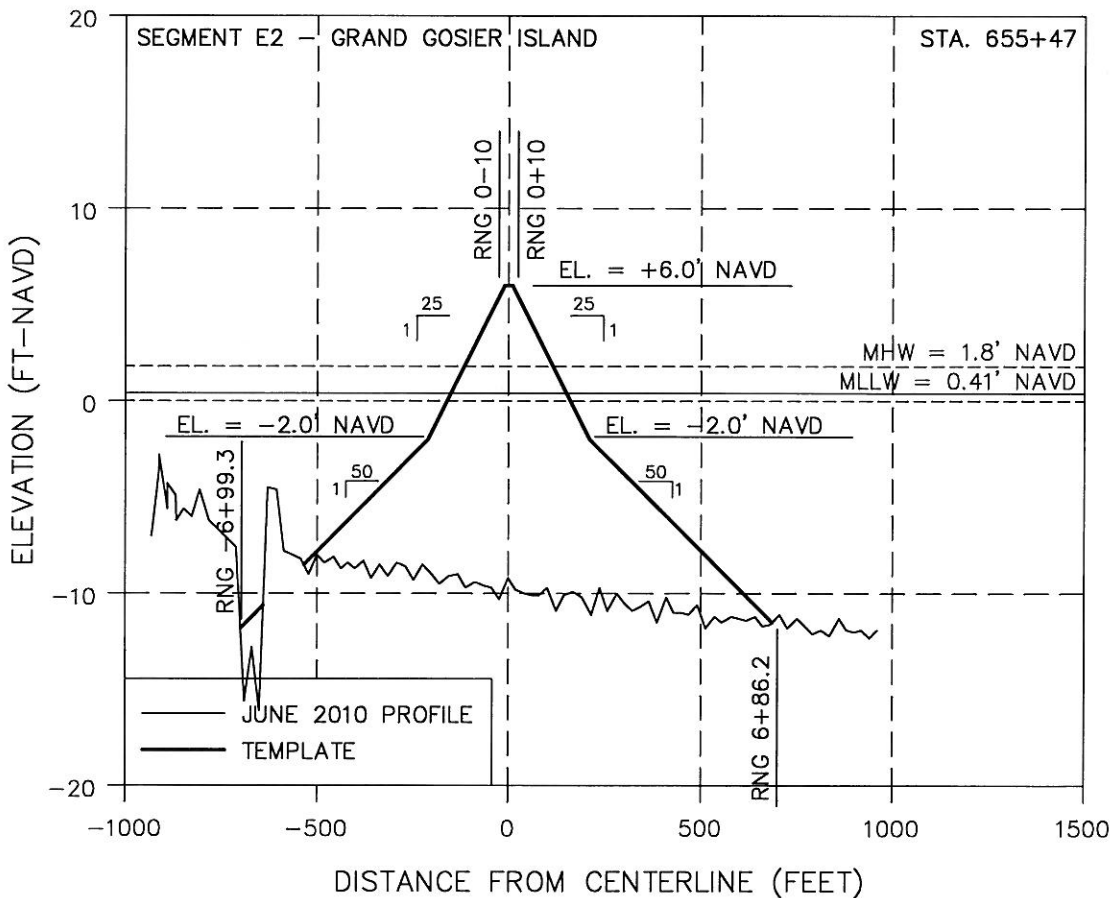
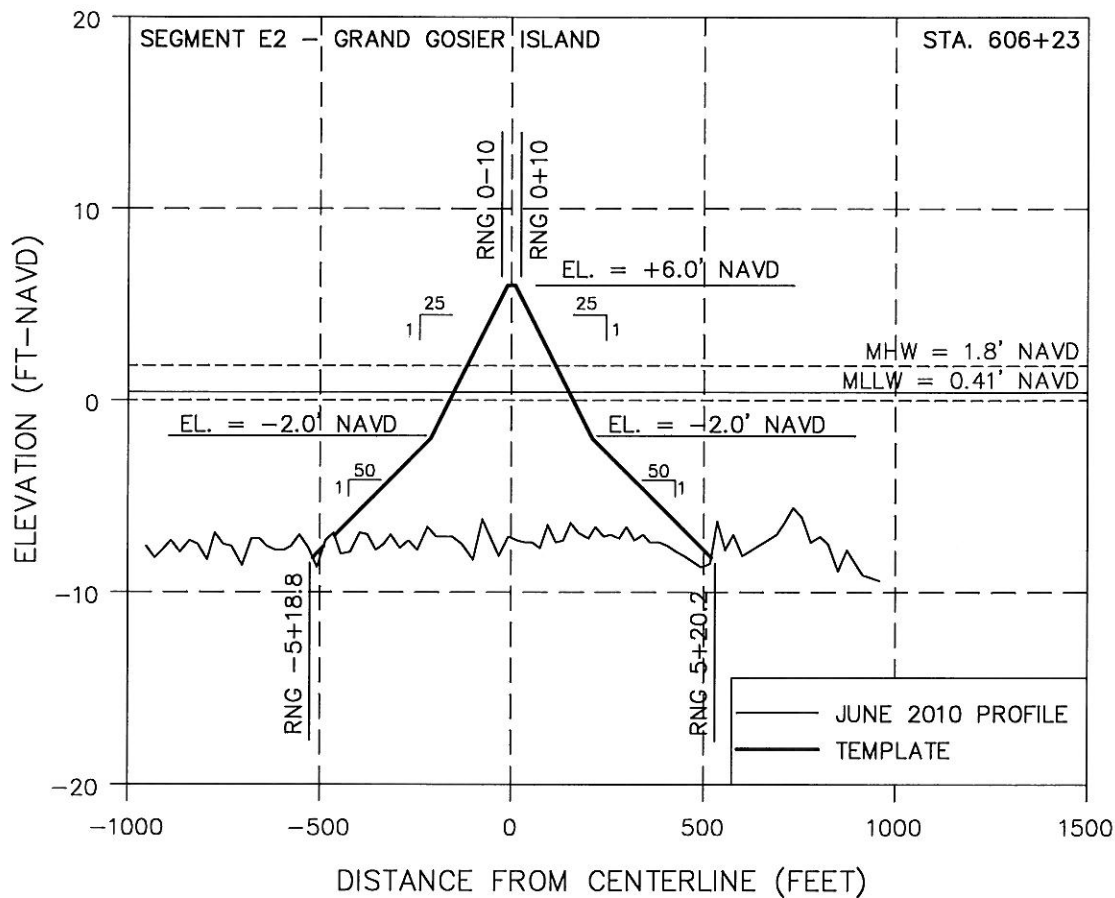
APPLICATION BY:	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		SEGMENT E2 PROFILES
	DESIGNED BY:	APPROVED BY:	DATE:
DRAWN BY:	STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:
			SHEET 12 OF 17



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<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		SEGMENT E2 PROFILES
APPLICATION BY:	DESIGNED BY:	STATE PROJECT NUMBER:
DRAWN BY:	APPROVED BY:	DATE:
		SHEET 14 OF 17



SEGMENT E2  
PROFILES

DATE:

SHEET 15 OF 17

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

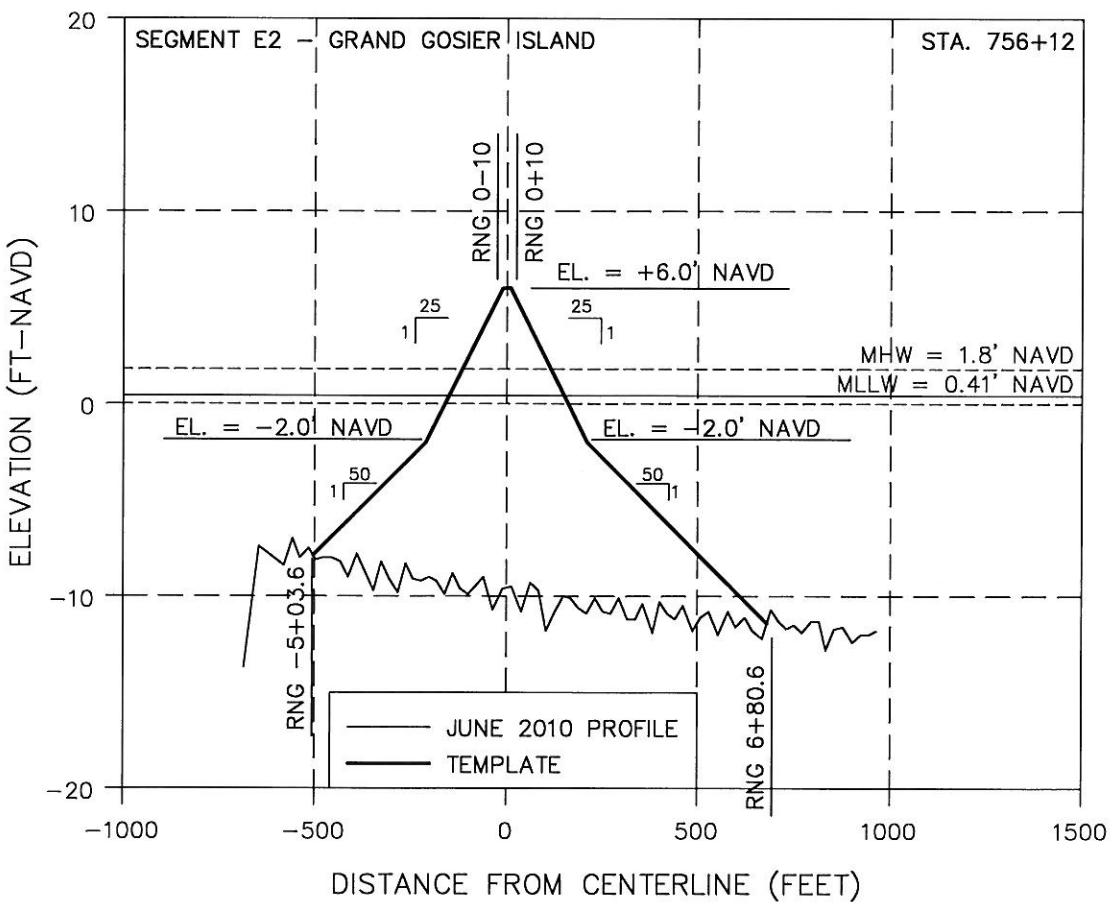
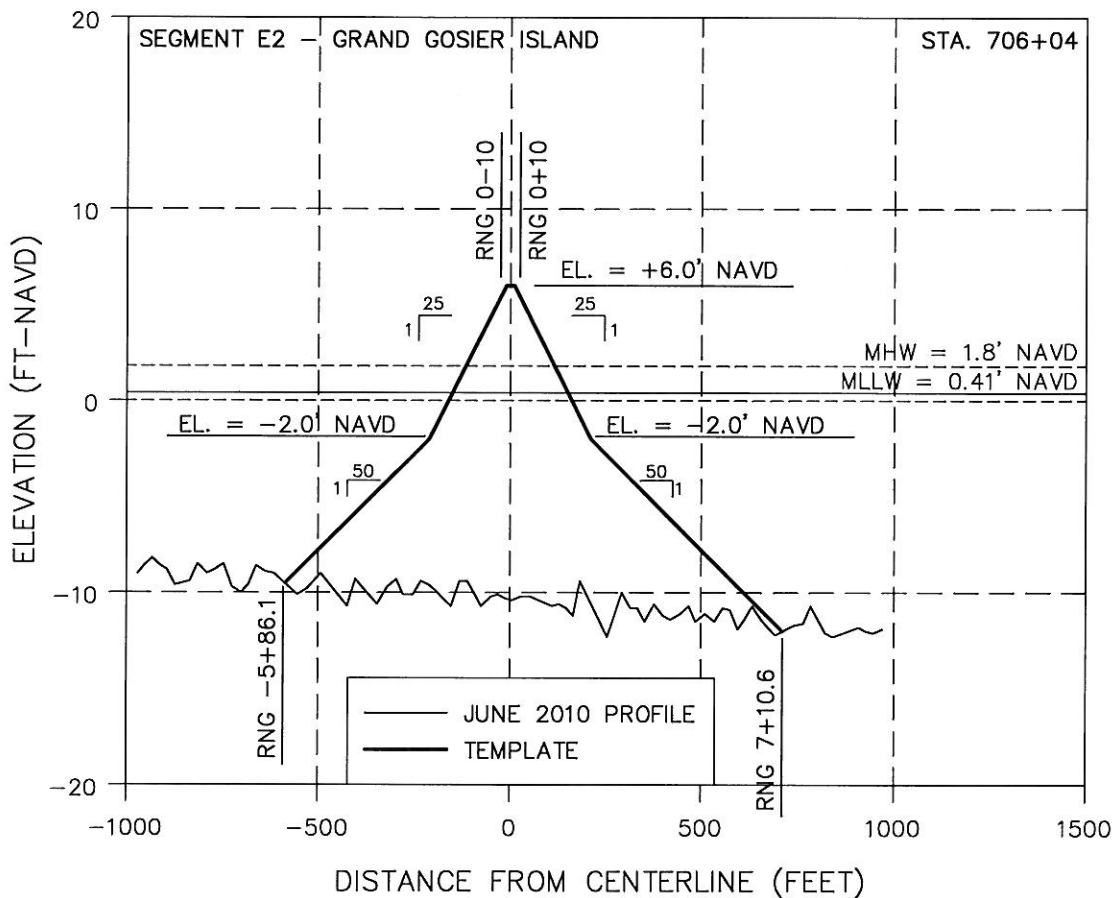
OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:

DRAWN BY:



SEGMENT E2  
PROFILES

DATE:

SHEET 16 OF 17

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:

DRAWN BY:

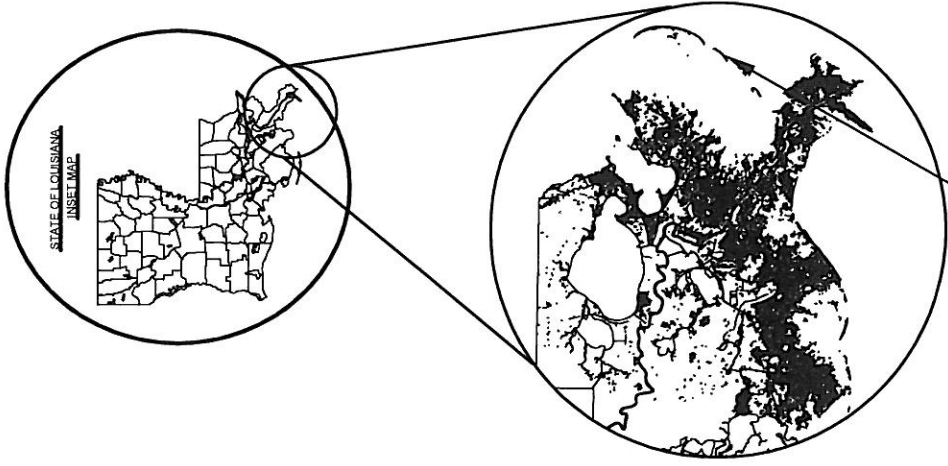
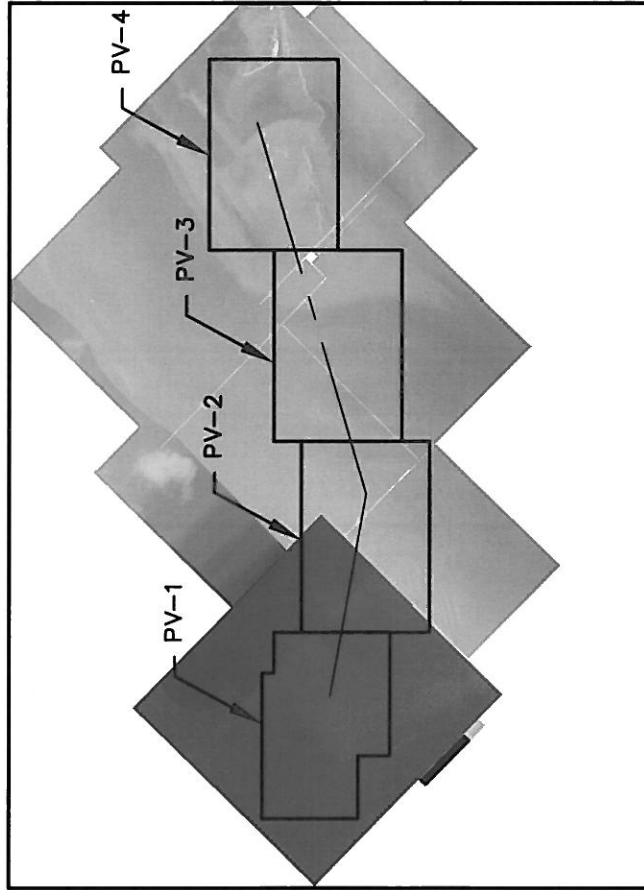


STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT E3  
 CURLEW ISLAND

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	PLAN VIEWS
6-9	PROFILES



PROJECT LOCATION

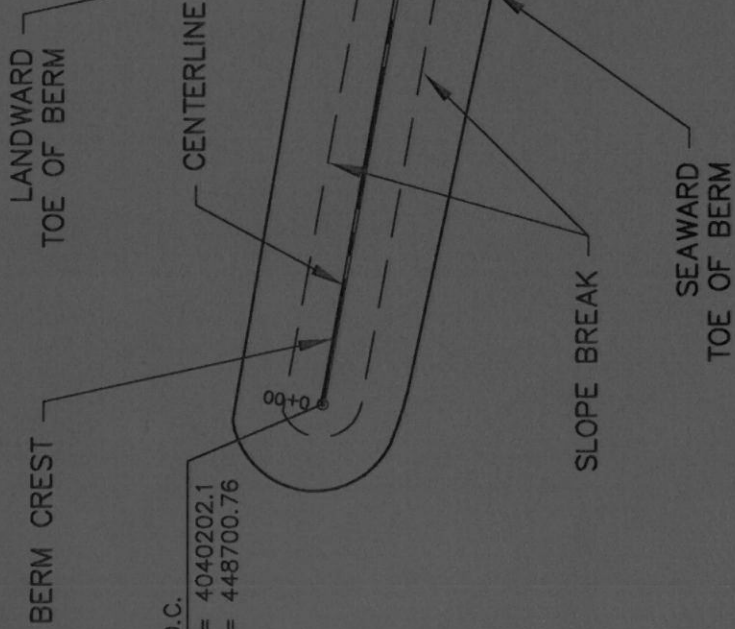
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 TITLE SHEET
	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:

VOLUME = 5.18 M CY  
 AREA = 645.3 ACRES  
 BERM LENGTH = 30,800 FT.

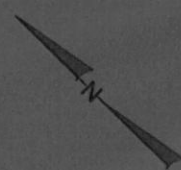
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

P.O.C.  
 X = 4040202.1  
 Y = 448700.76



GULF OF MEXICO

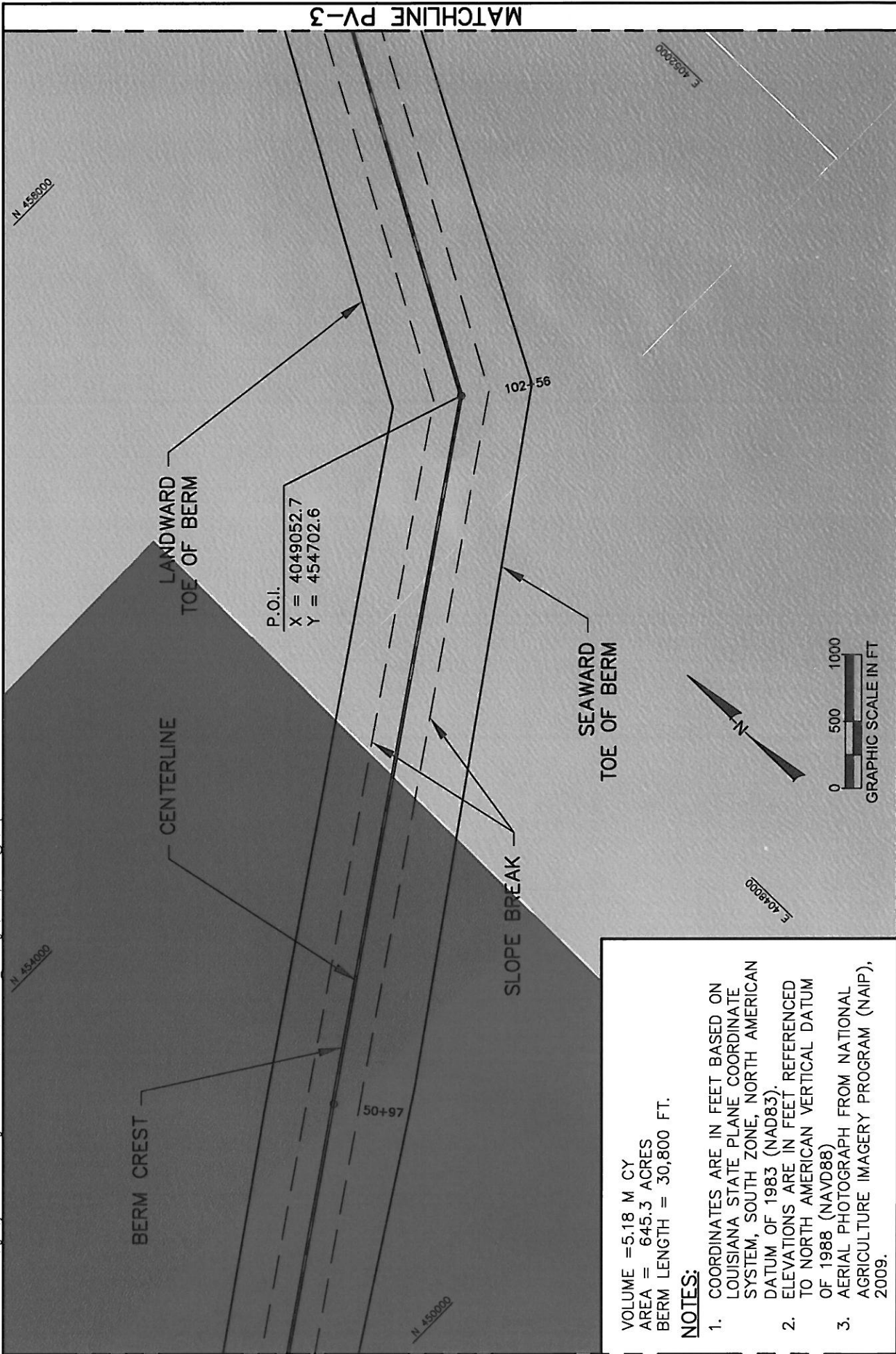


GRAPHIC SCALE IN FT

MATCHLINE PV-2

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/28/10 SHEET 2 OF 9





VOLUME = 5.18 M CY  
 AREA = 645.3 ACRES  
 BERM LENGTH = 30,800 FT.

**NOTES:**

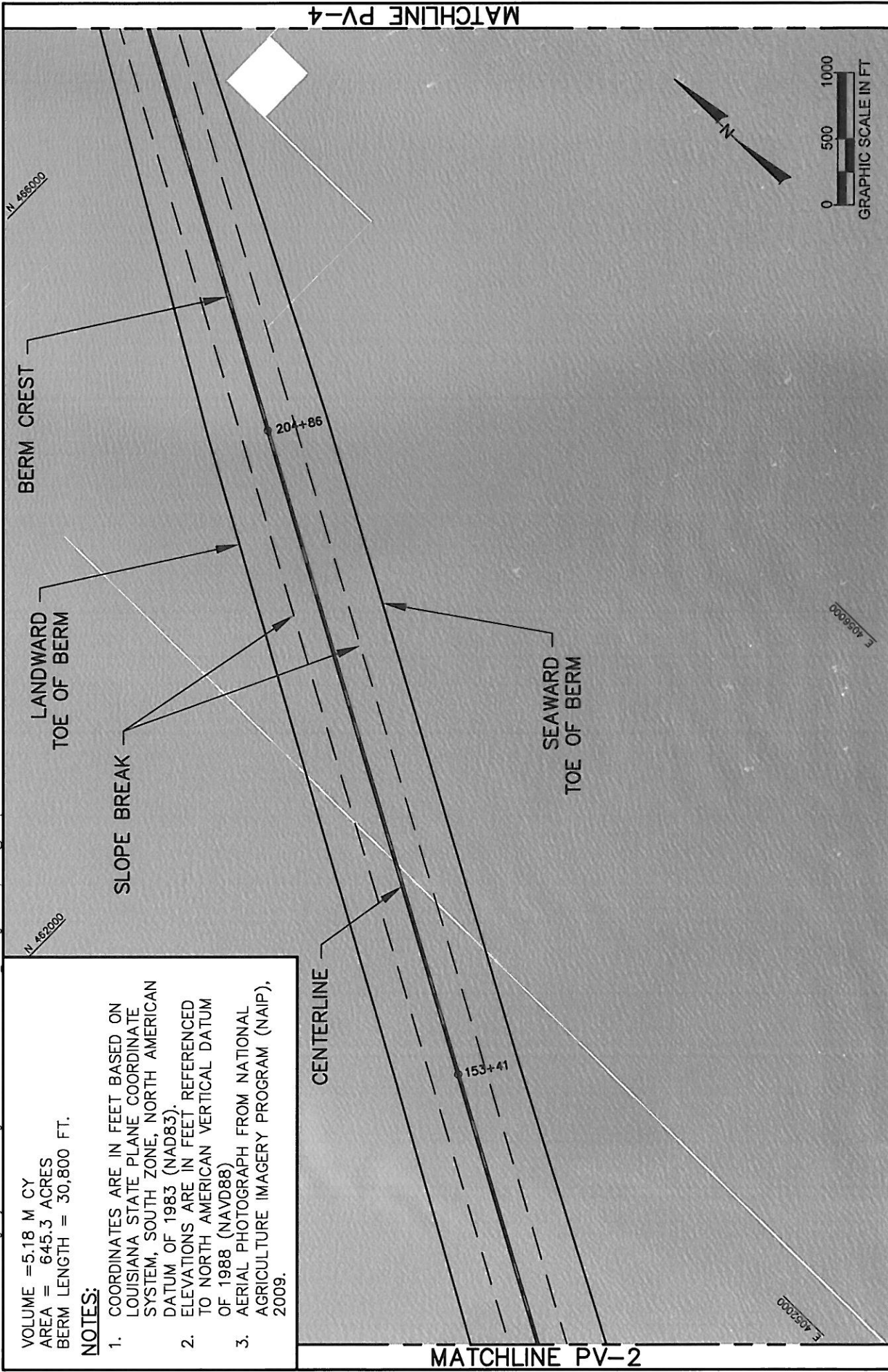
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- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE  SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:
DATE: 6/28/10	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
SHEET 3 OF 9		

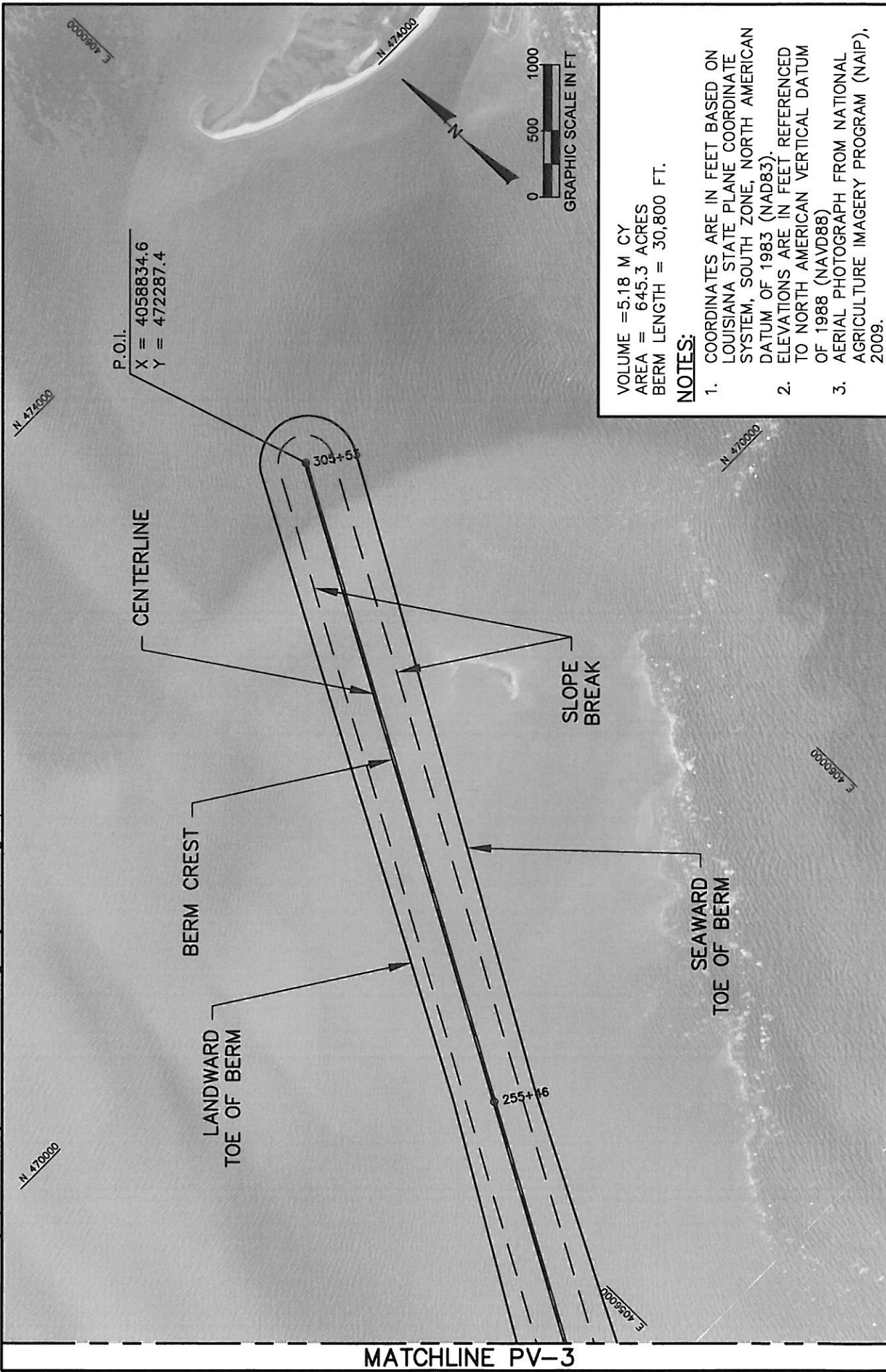
VOLUME = 5.18 M CY  
 AREA = 645.3 ACRES  
 BERM LENGTH = 30,800 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	DATE: 6/28/10  SHEET 4 OF 9

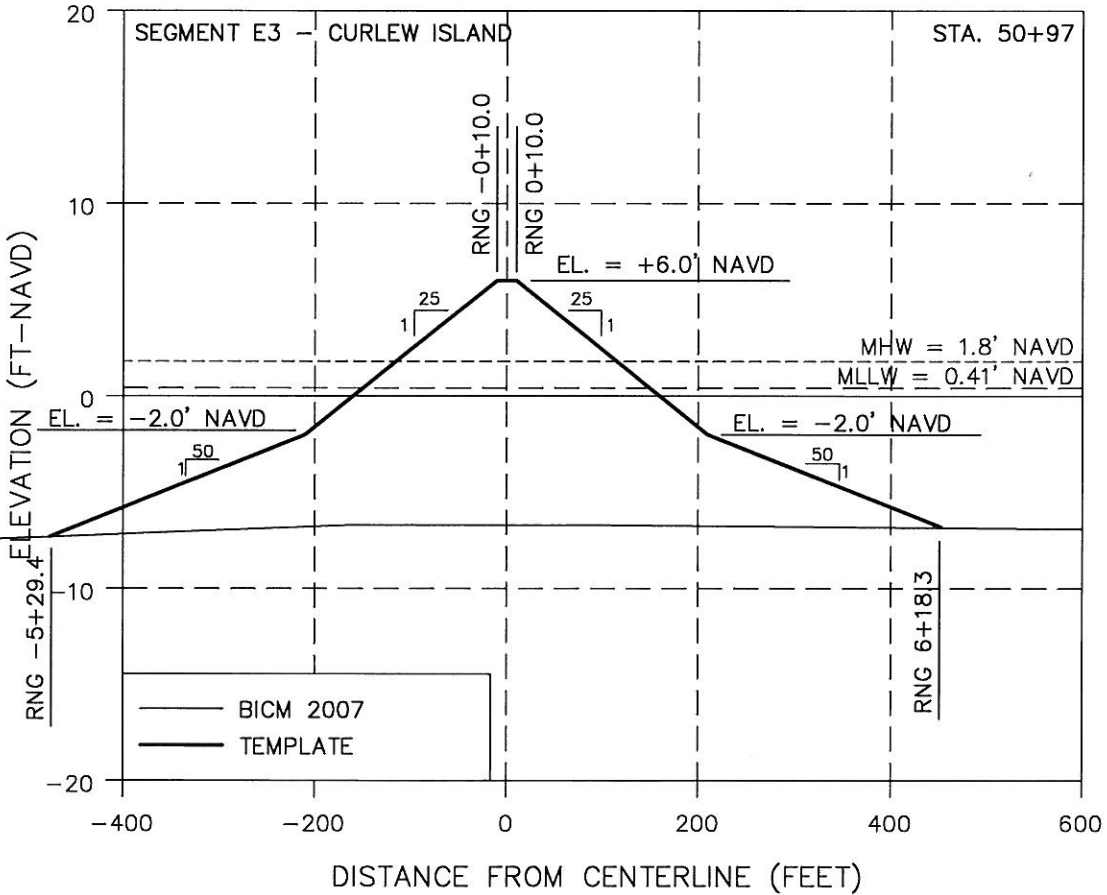
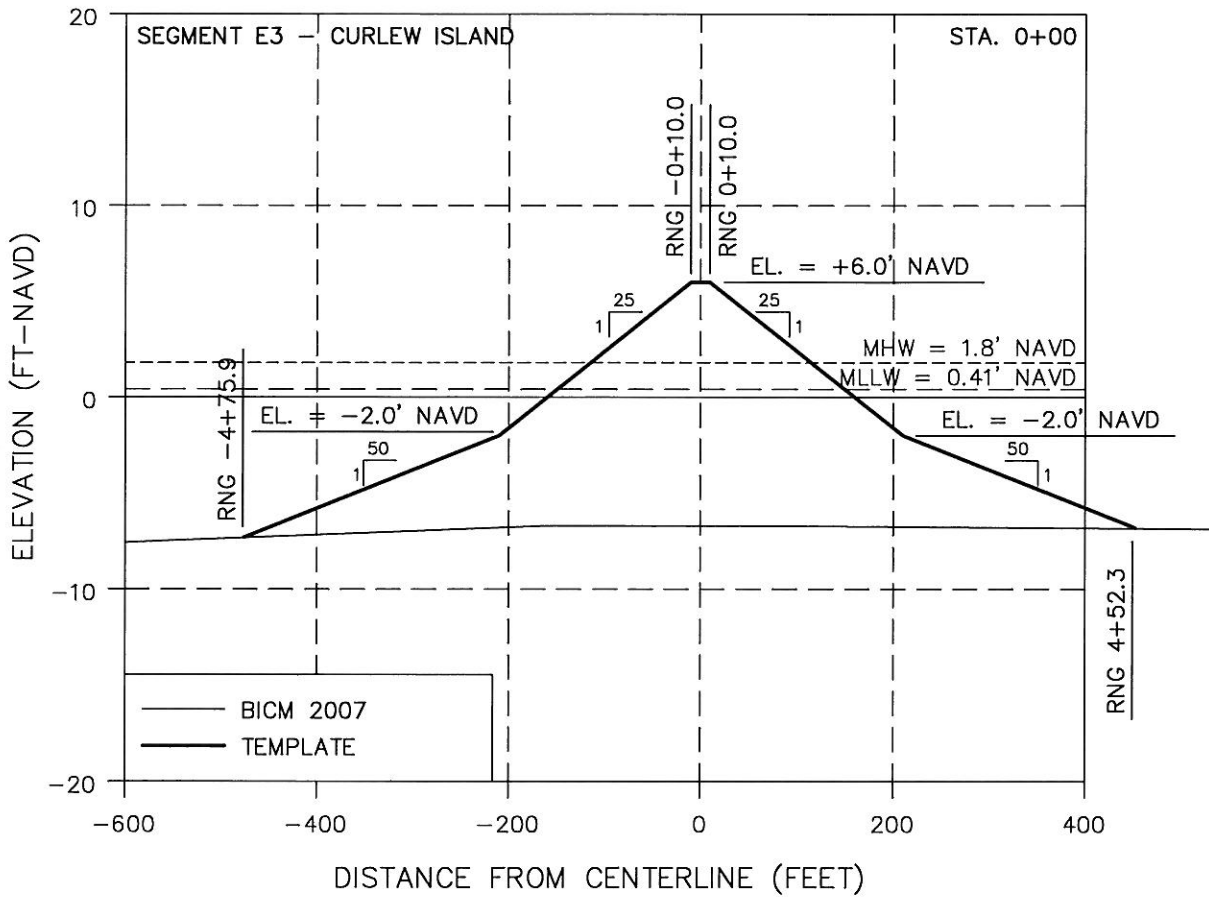


VOLUME = 5.18 M CY  
 AREA = 645.3 ACRES  
 BERM LENGTH = 30,800 FT.

**NOTES:**

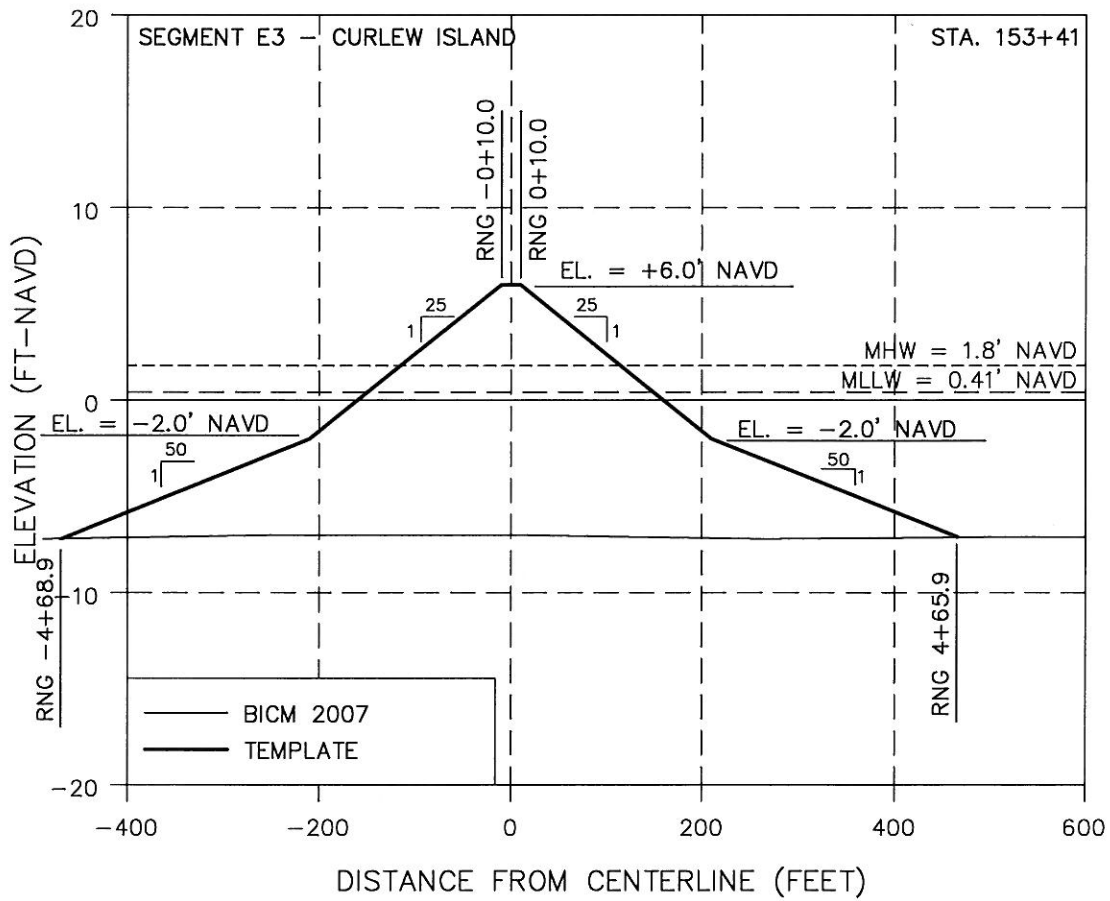
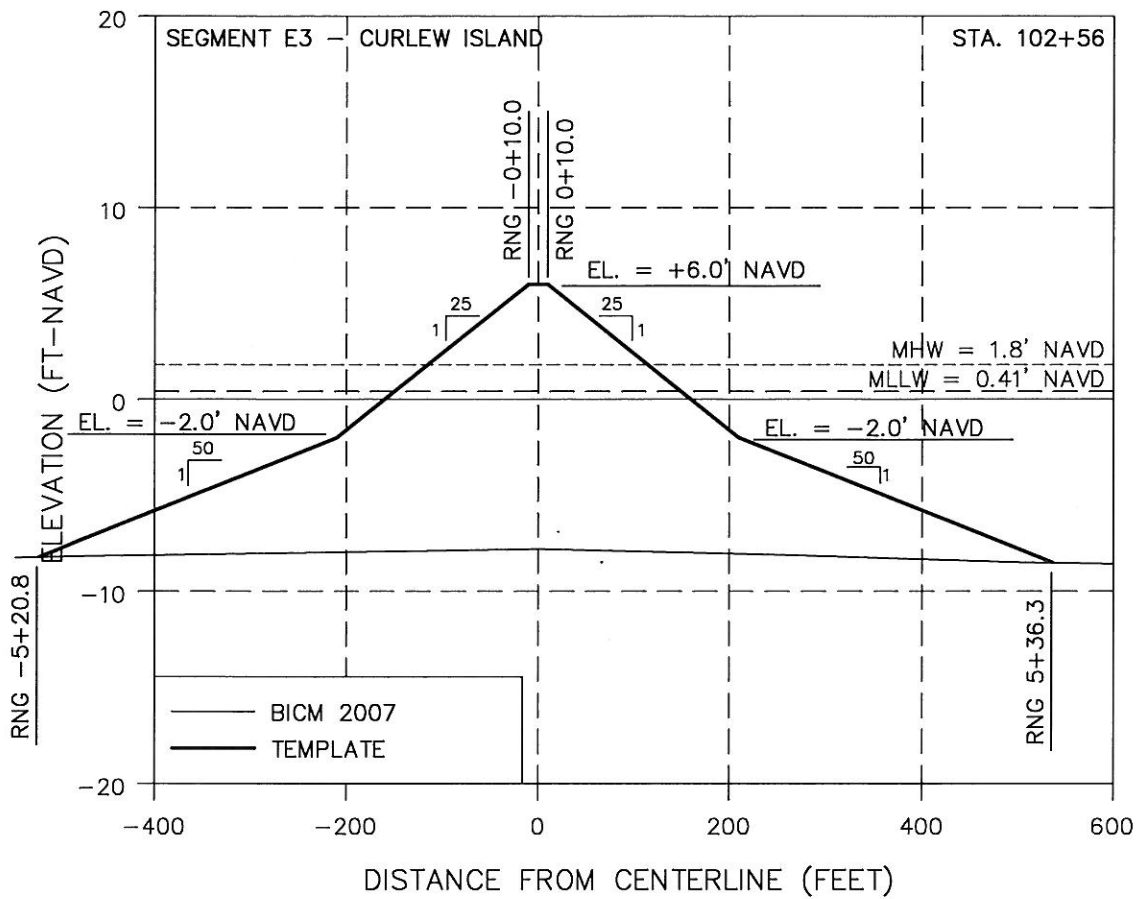
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- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/28/10
STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	SHEET 5 OF 9	DATE: 6/28/10



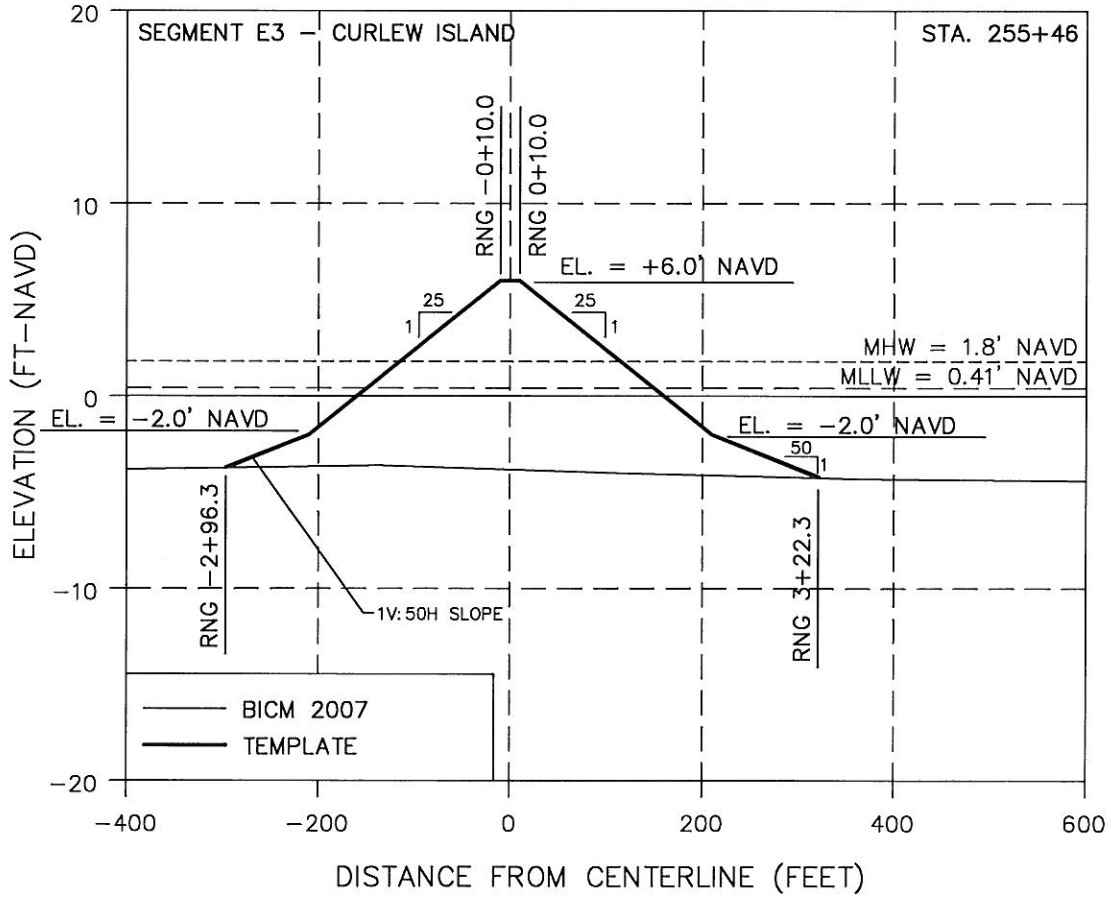
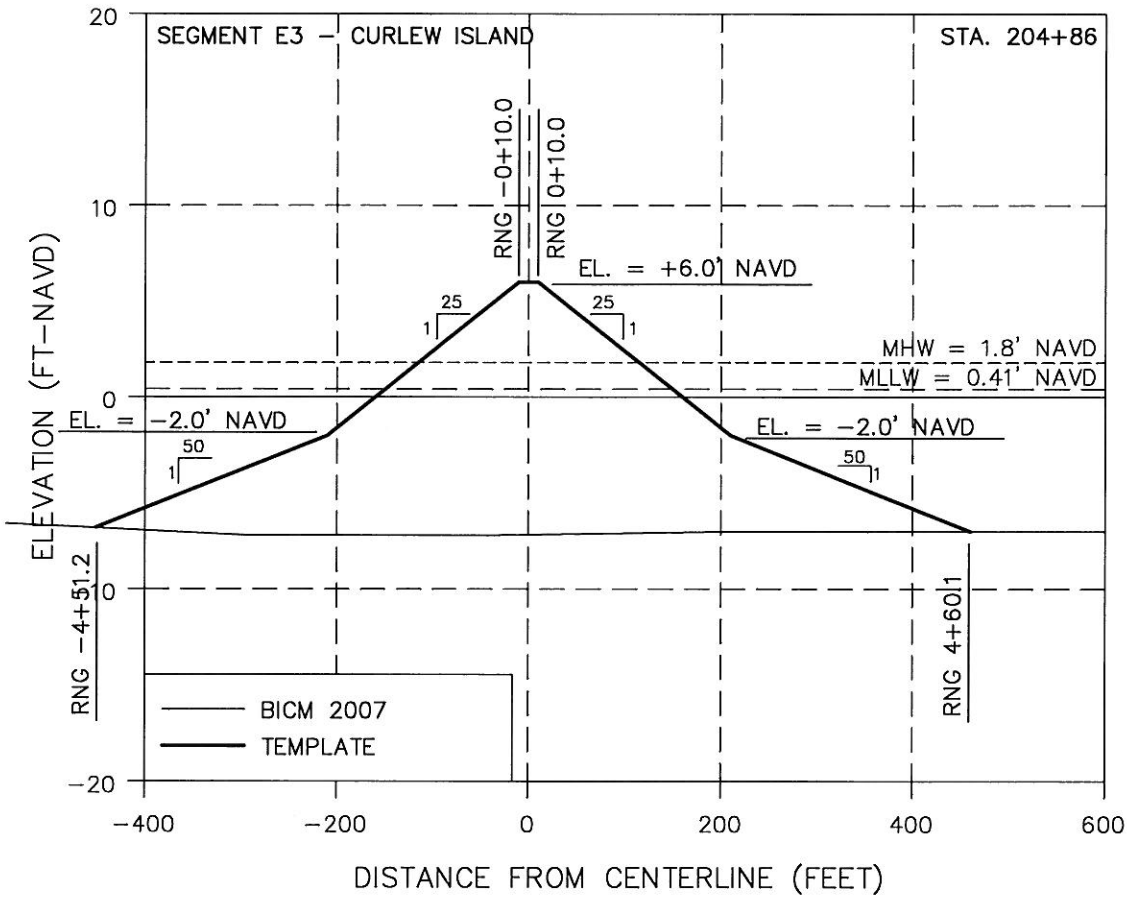
SEGMENT E3 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 6/22/2010	STATE PROJECT NUMBER:		DESIGNED BY:
SHEET 6 OF 9	FEDERAL PROJECT NUMBER:	APPROVED BY:	

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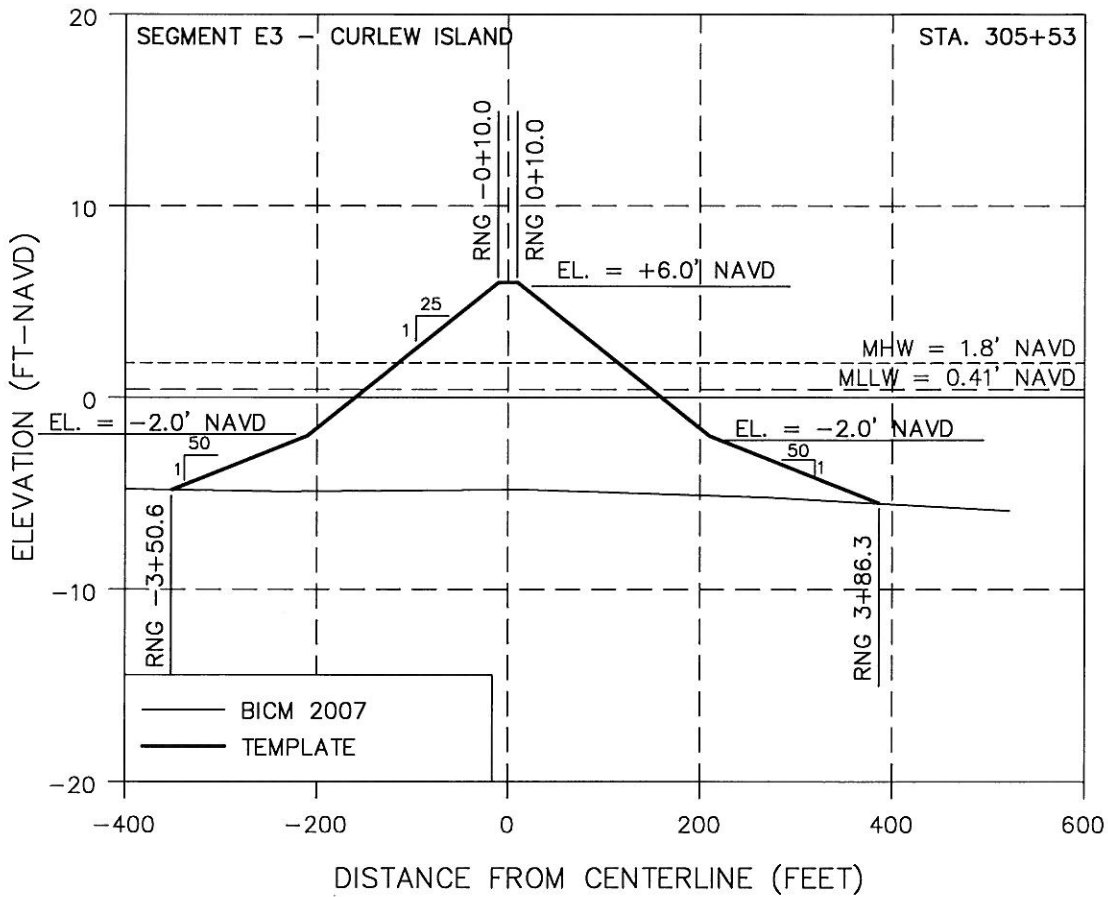


	<b>SEGMENT E3 PROFILES</b>	
<b>BARRIER ISLAND DEFENSE</b>	DATE: 6/22/10 SHEET 7 OF 9	
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	
<b>APPLICATION BY:</b> OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>DESIGNED BY:</b>	<b>APPROVED BY:</b>
<b>DRAWN BY:</b>		

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<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>SEGMENT E3</b> <b>PROFILES</b>
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	BARRIER ISLAND DEFENSE
DRAWN BY:	APPROVED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
		DATE: 6/22/10 SHEET 8 OF 9



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT E3  
 PROFILES

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

DESIGNED BY:  
 APPROVED BY:

DATE: 6/22/10

SHEET 9 OF 9

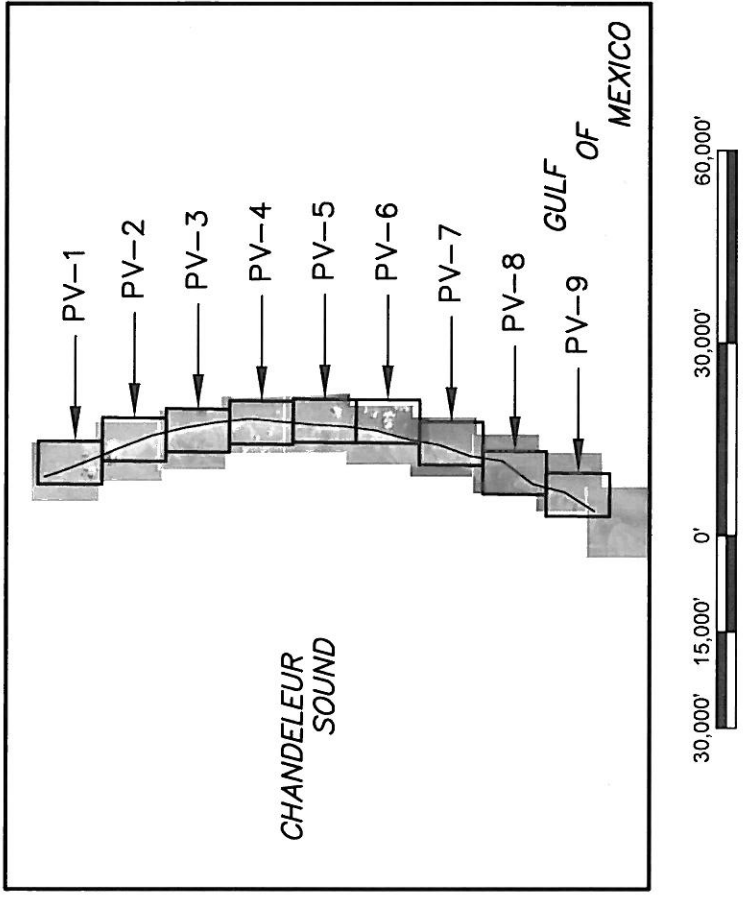
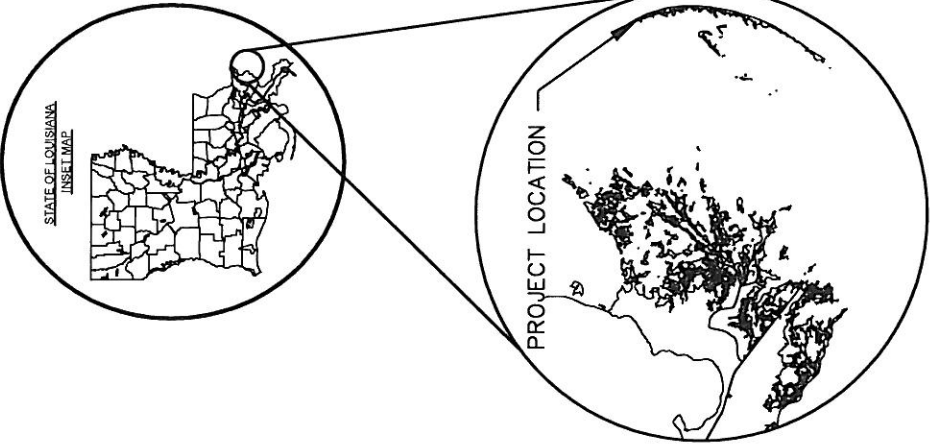
DRAWN BY:

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT E4  
 NORTHERN CHANDELEUR ISLANDS

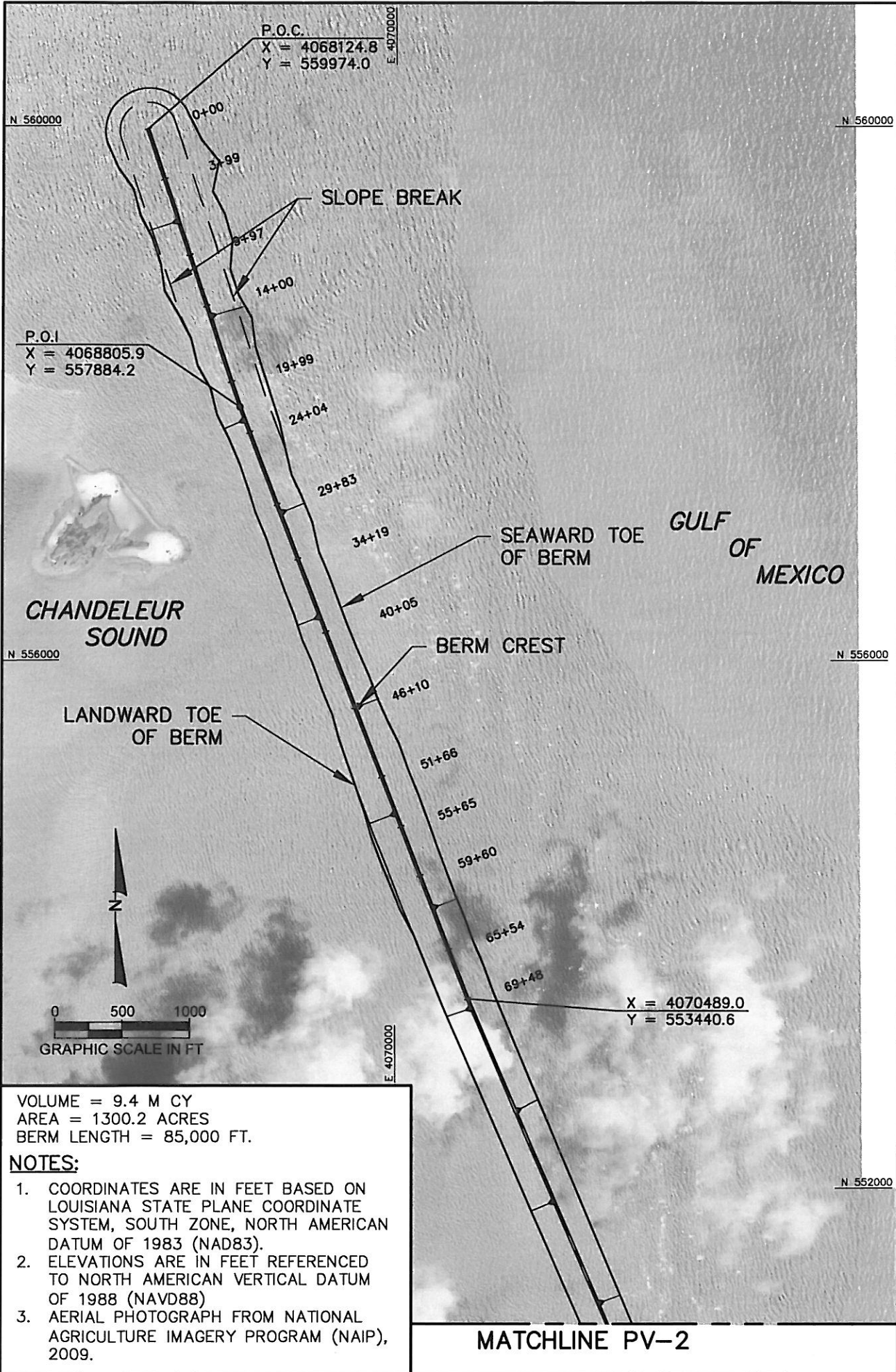
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-10	PLAN VIEW
11-26	PROFILES



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E4 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: SHEET 1 OF 26
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	





VOLUME = 9.4 M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

**MATCHLINE PV-2**

SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

N 552000

SHEET 2 OF 26

FEDERAL PROJECT NUMBER:

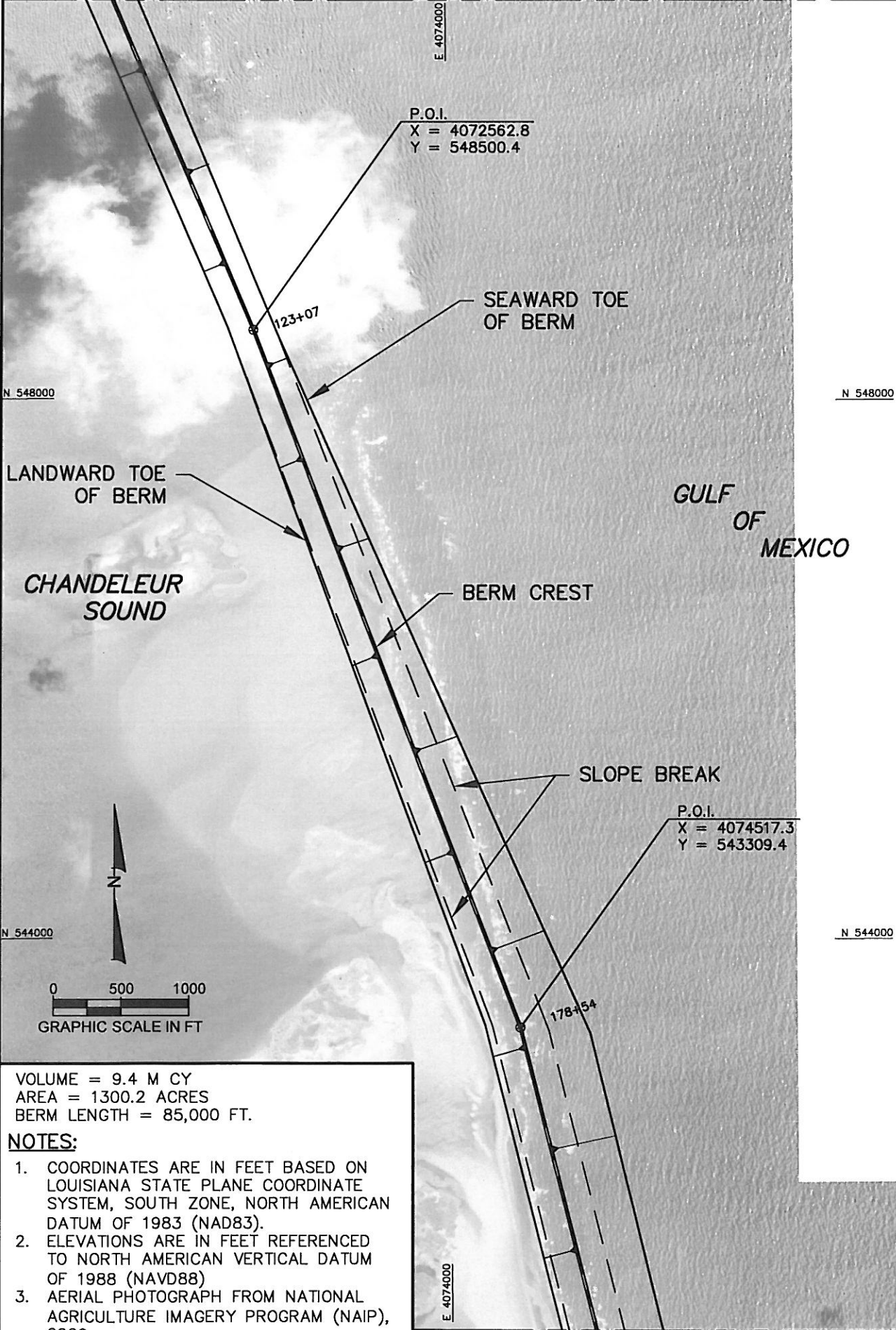
APPROVED BY:

DESIGNED BY:

DRAWN BY:

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MATCHLINE PV-1



VOLUME = 9.4 M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-3

SEGMENT E4  
PLAN VIEW

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

SHEET 3 OF 26

STATE PROJECT NUMBER:

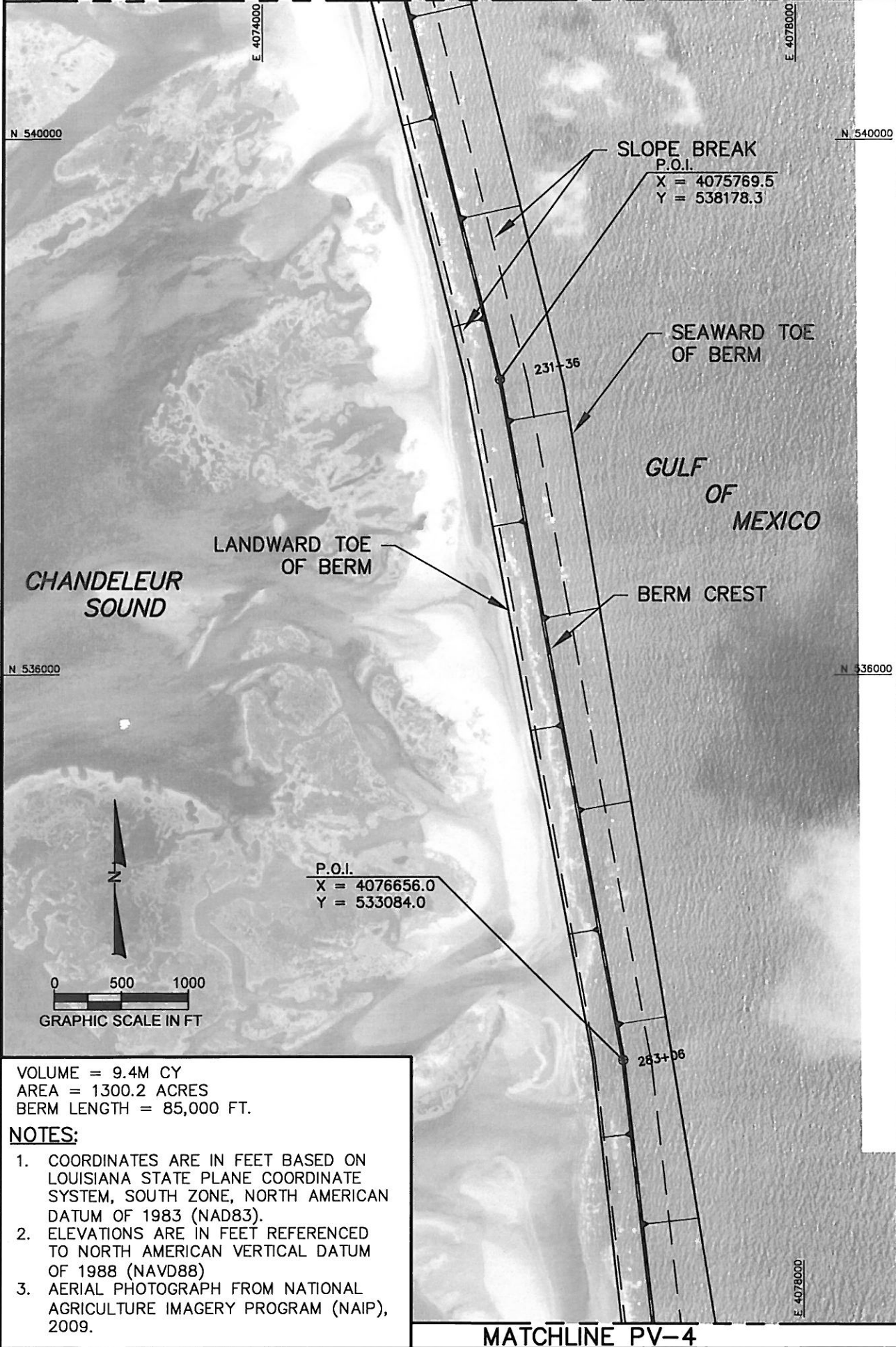
FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

MATCHLINE PV-2



SEGMENT E4  
PLAN VIEW

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

SHEET 4 OF 26

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

MATCHLINE PV-4

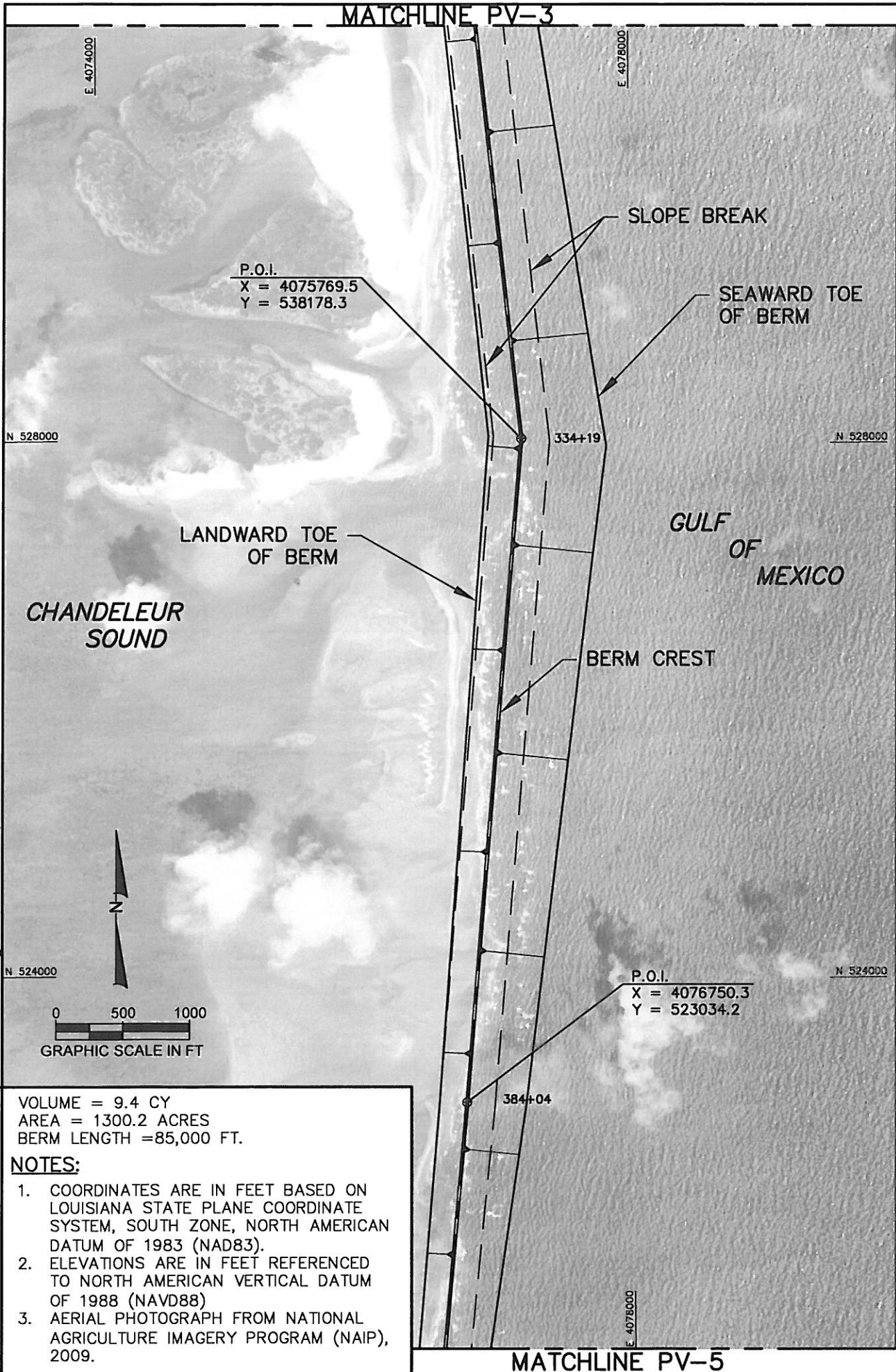
VOLUME = 9.4M CY  
AREA = 1300.2 ACRES  
BERM LENGTH = 85,000 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

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MATCHLINE PV-3



P.O.I.  
X = 4075769.5  
Y = 538178.3

SLOPE BREAK

SEAWARD TOE OF BERM

LANDWARD TOE OF BERM

GULF OF MEXICO

BERM CREST

P.O.I.  
X = 4076750.3  
Y = 523034.2

384+04

334+19

CHANDELEUR SOUND

E 4074000

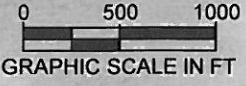
E 4078000

N 528000

N 528000

N 524000

N 524000



VOLUME = 9.4 CY  
AREA = 1300.2 ACRES  
BERM LENGTH = 85,000 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-5

SEGMENT E4  
PLAN VIEW

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

SHEET 5 OF 26

STATE PROJECT NUMBER:

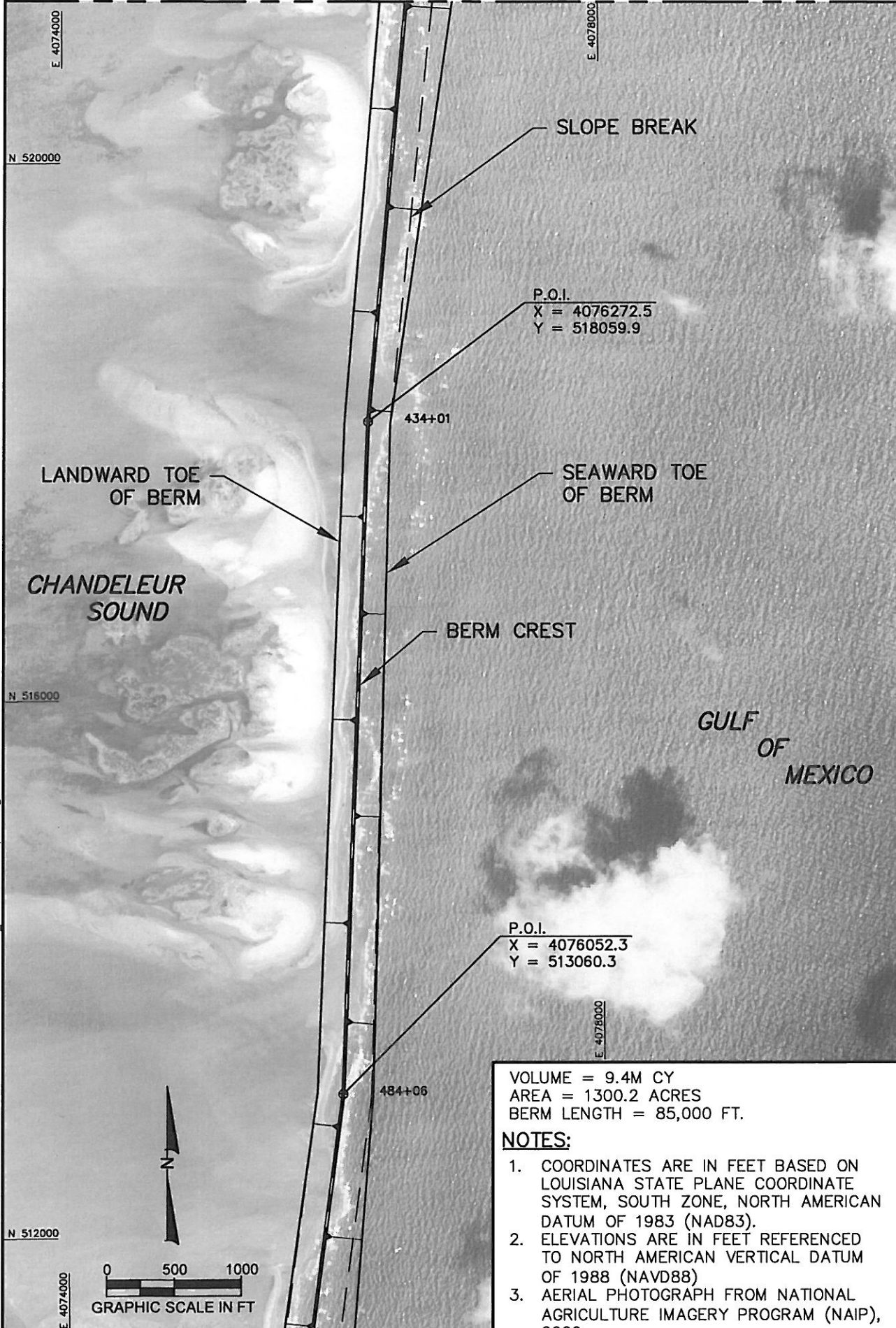
FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

MATCHLINE PV-4



VOLUME = 9.4M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

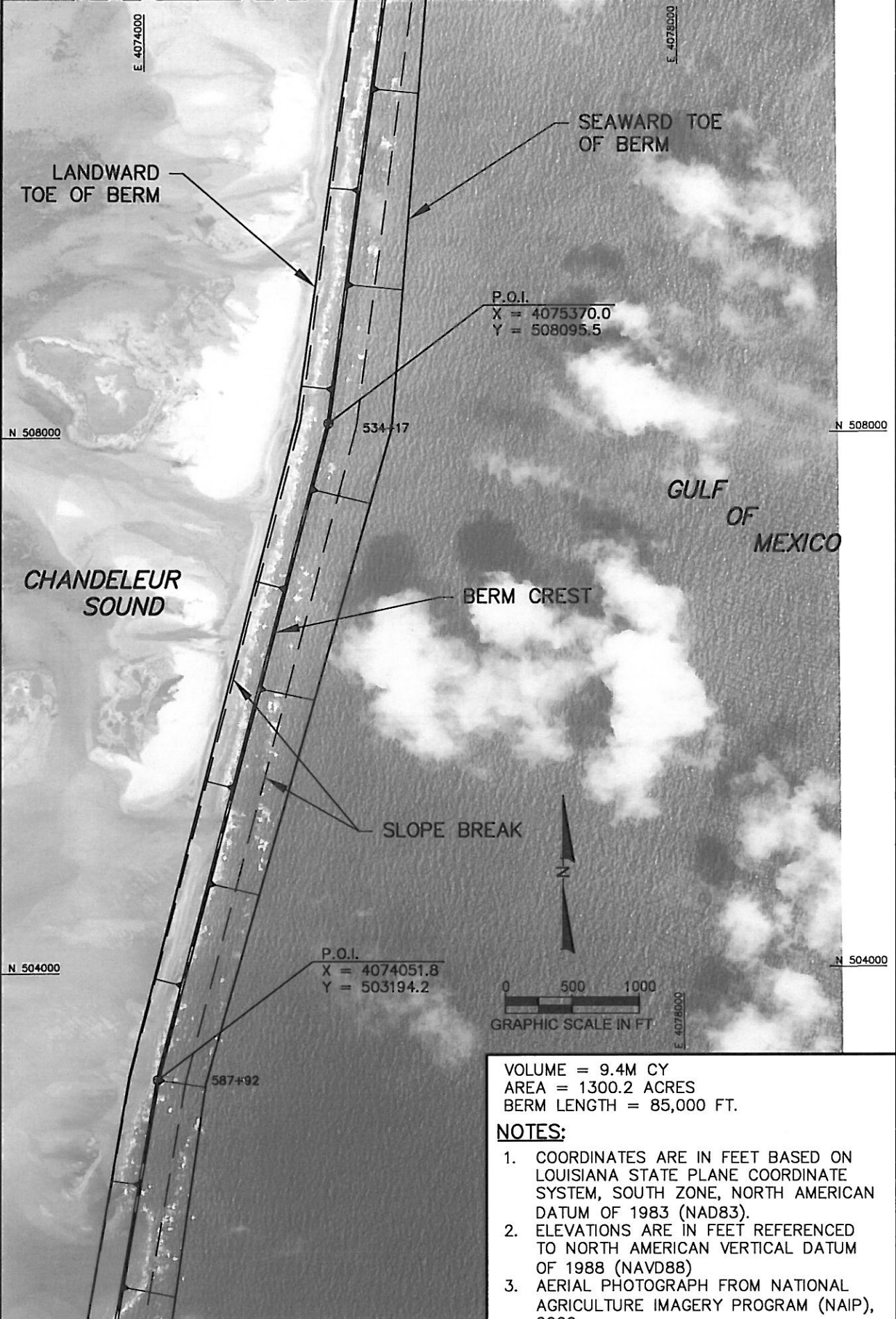
SHEET 6 OF 26

FEDERAL PROJECT NUMBER:

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MATCHLINE PV-6

MATCHLINE PV-5



VOLUME = 9.4M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

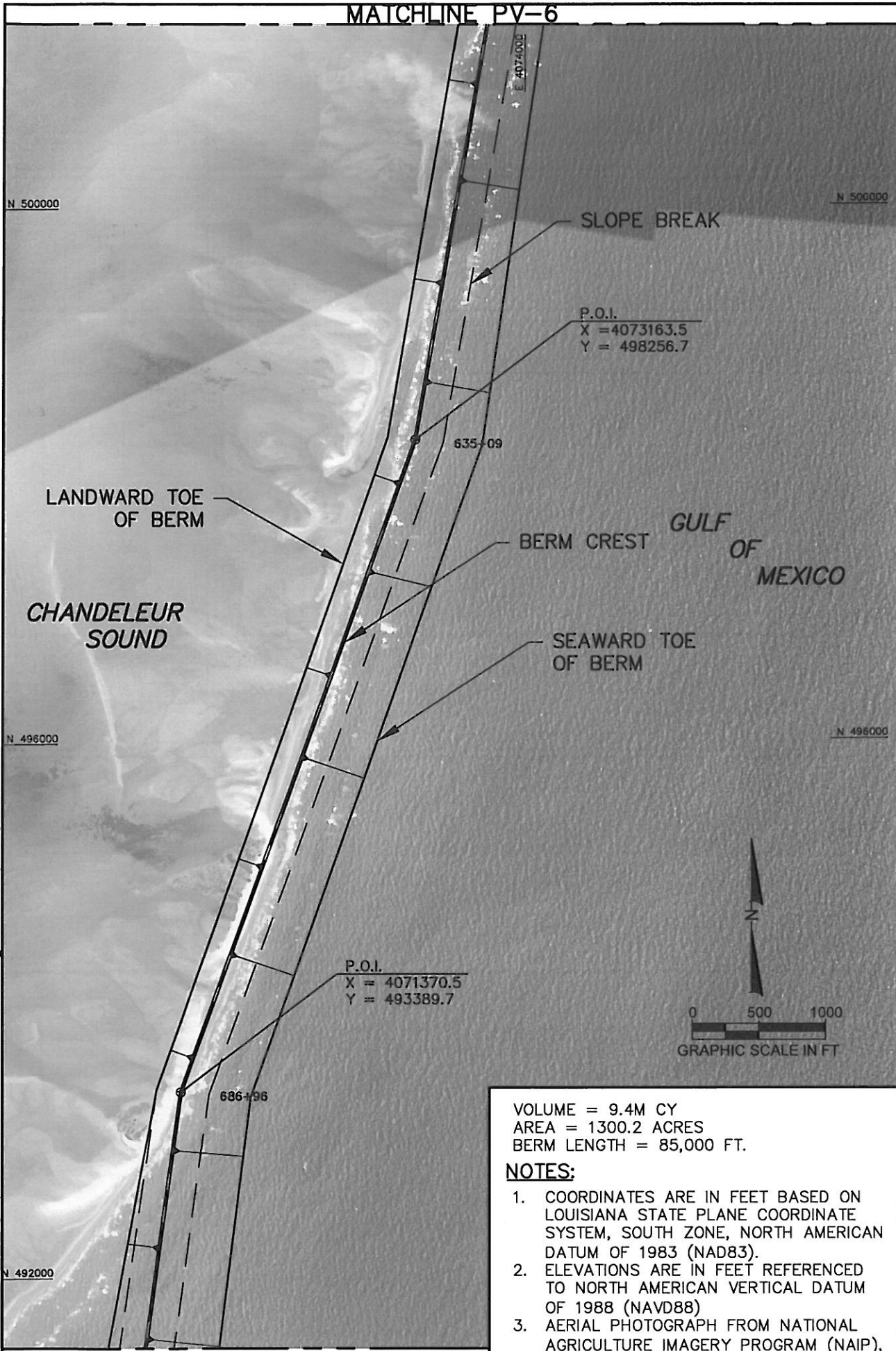
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1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

<p>SEGMENT E4 PLAN VIEW</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 7 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>

MATCHLINE PV-7

MATCHLINE PV-6



MATCHLINE PV-8

VOLUME = 9.4M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

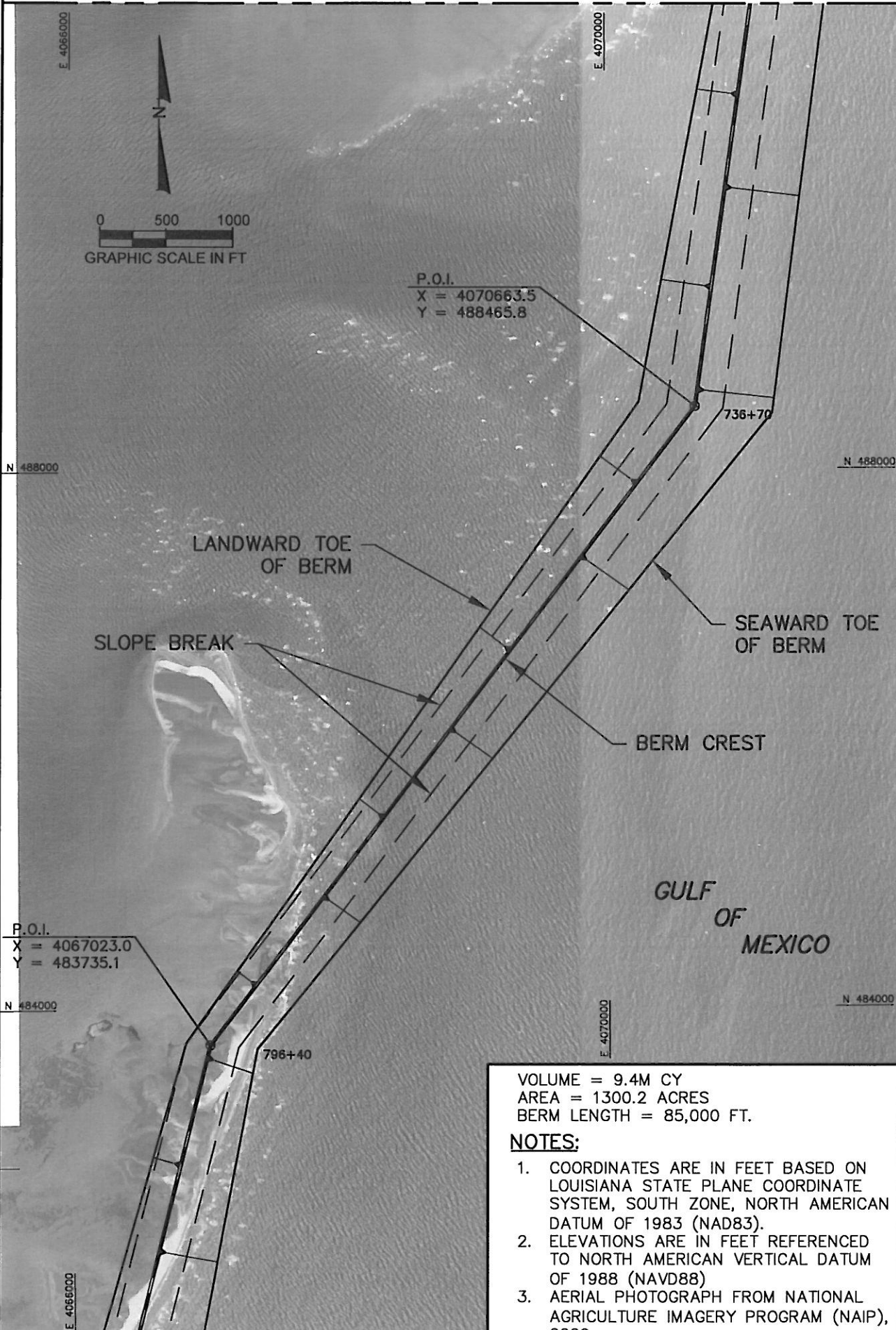
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SHEET 8 OF 26

FEDERAL PROJECT NUMBER:

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MATCHLINE PV-7



VOLUME = 9.4M CY  
 AREA = 1300.2 ACRES  
 BERM LENGTH = 85,000 FT.

**NOTES:**

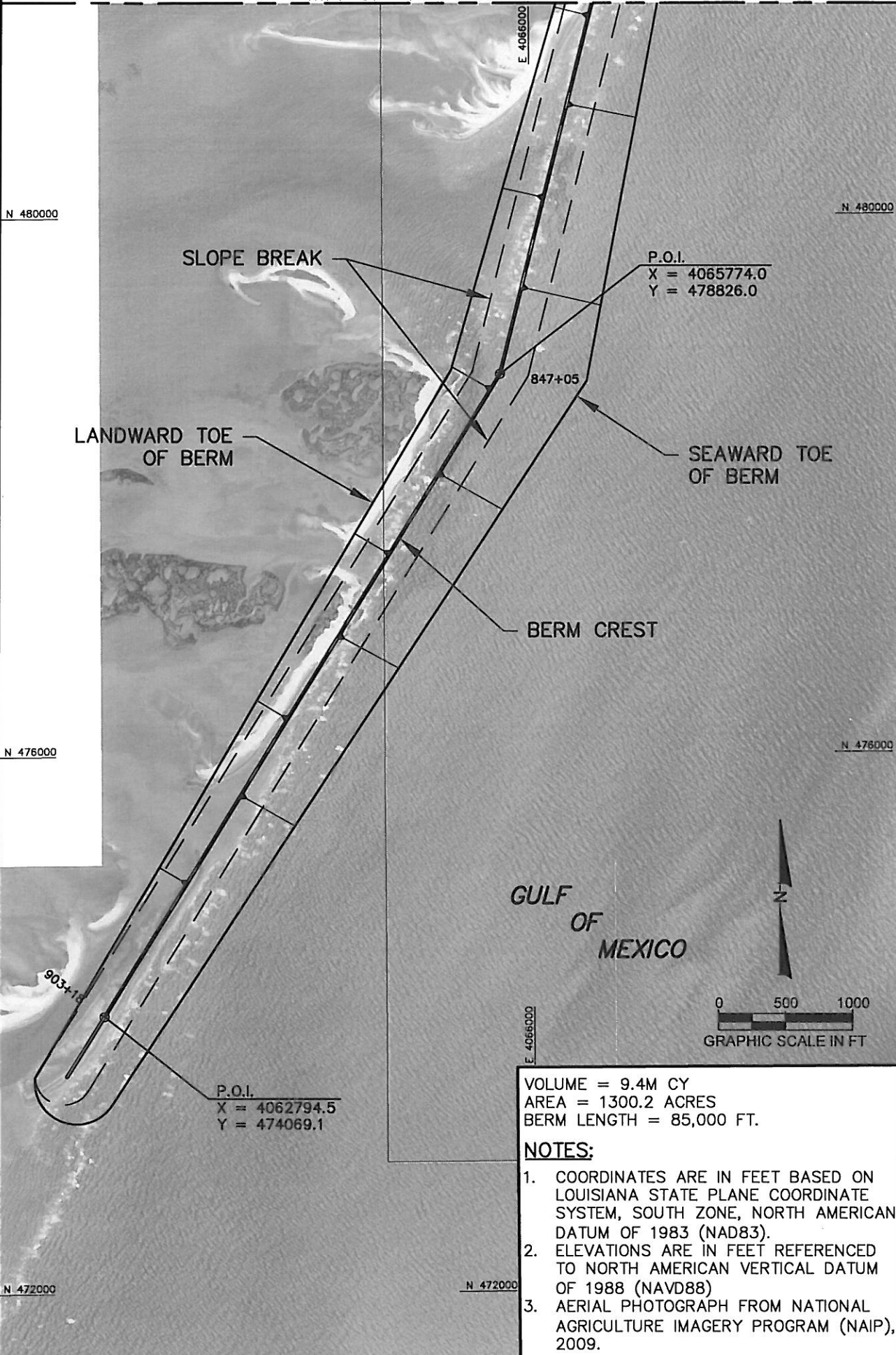
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2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

<p><b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH</b>                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>		<p>SEGMENT E4                  PLAN VIEW</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY:</p>	<p>DATE: 6/19/10</p>
<p>APPROVED BY:</p>	<p>STATE PROJECT NUMBER:</p>	<p>SHEET 9 OF 26</p>

MATCHLINE PV-9



MATCHLINE PV-8



SEGMENT E4  
PLAN VIEW

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

SHEET 10 OF 26

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

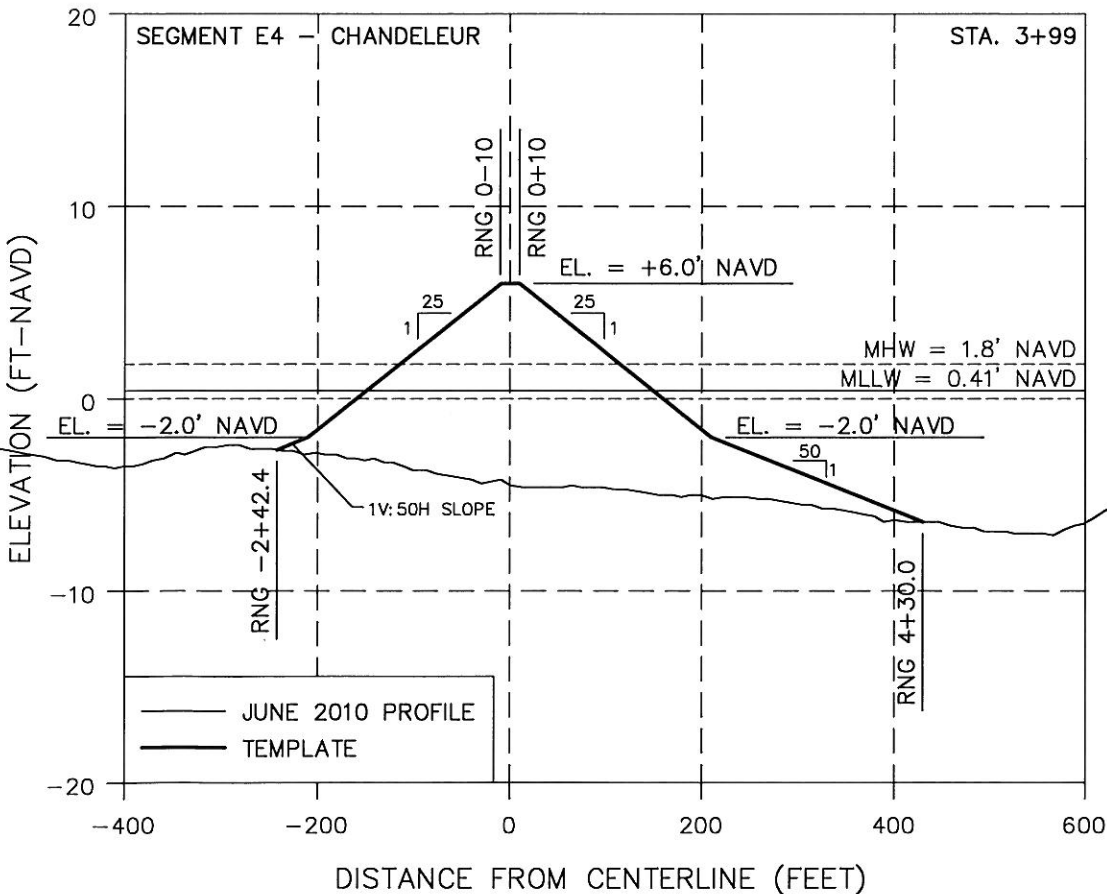
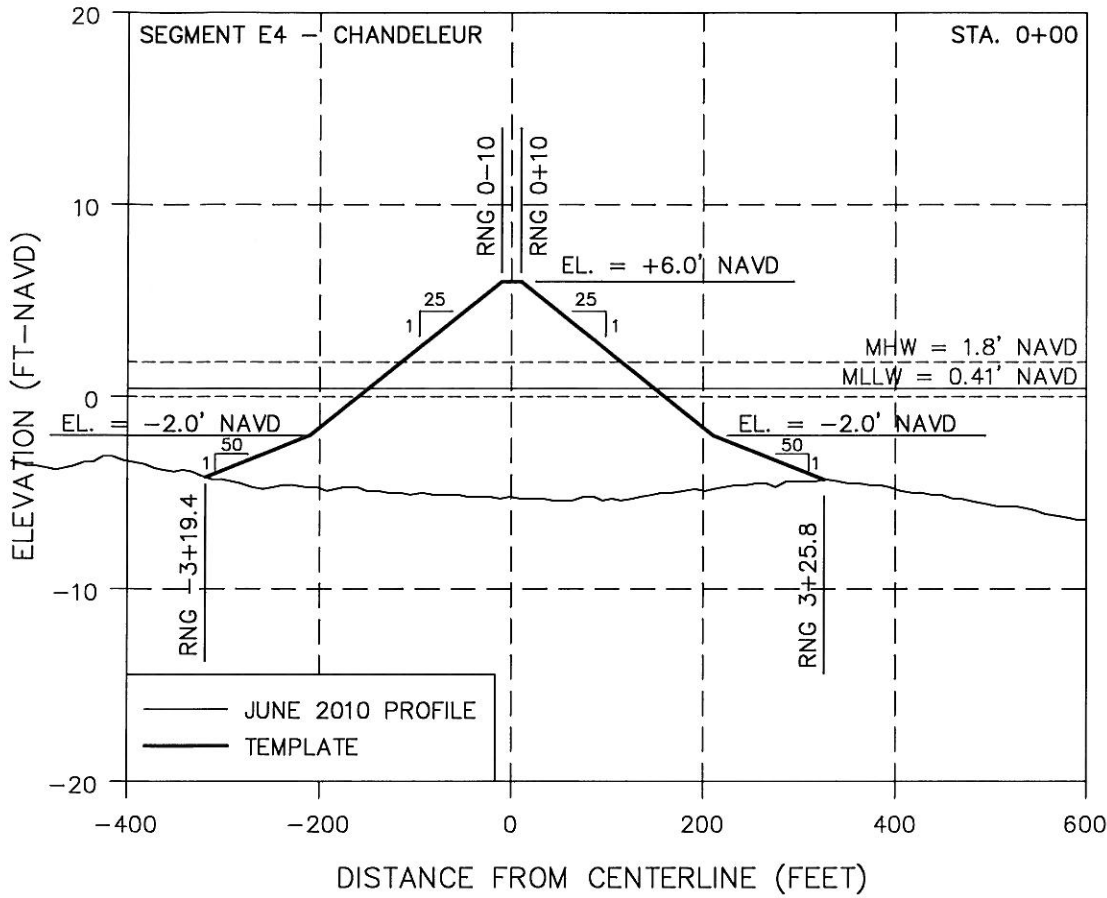
VOLUME = 9.4M CY  
AREA = 1300.2 ACRES  
BERM LENGTH = 85,000 FT.

**NOTES:**

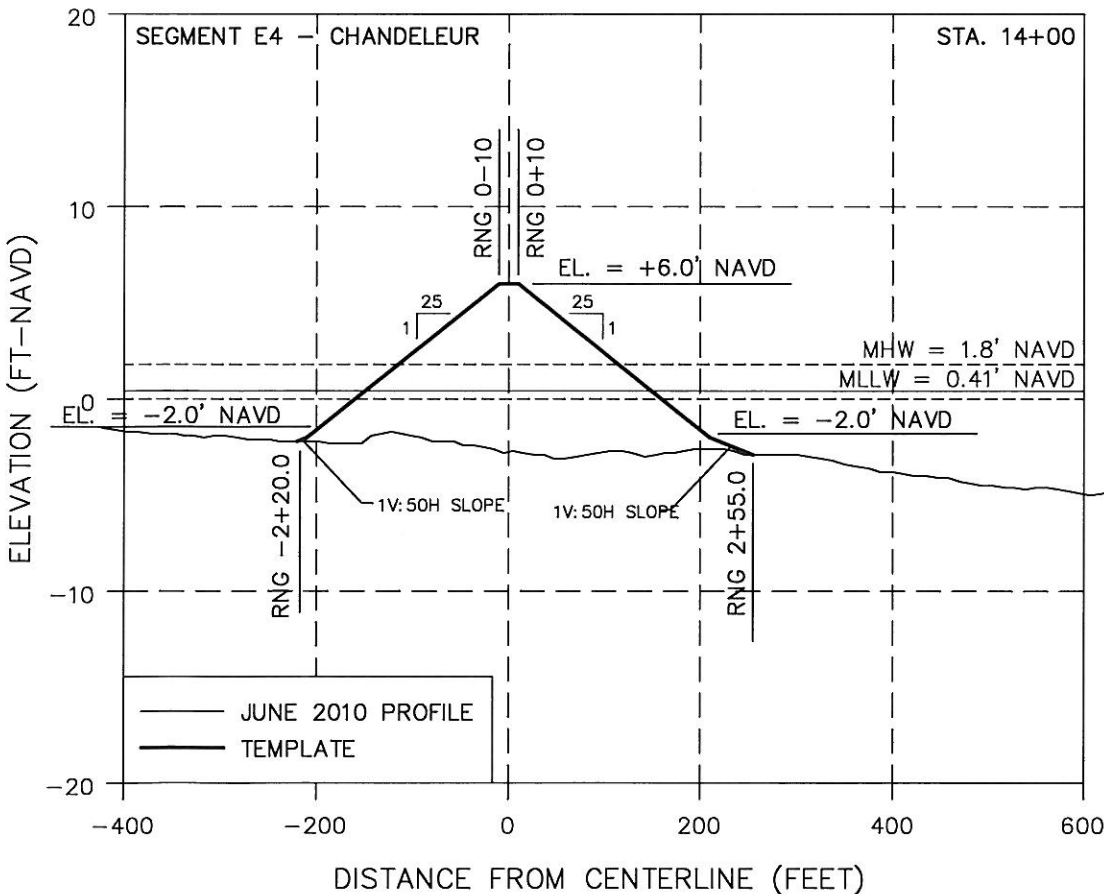
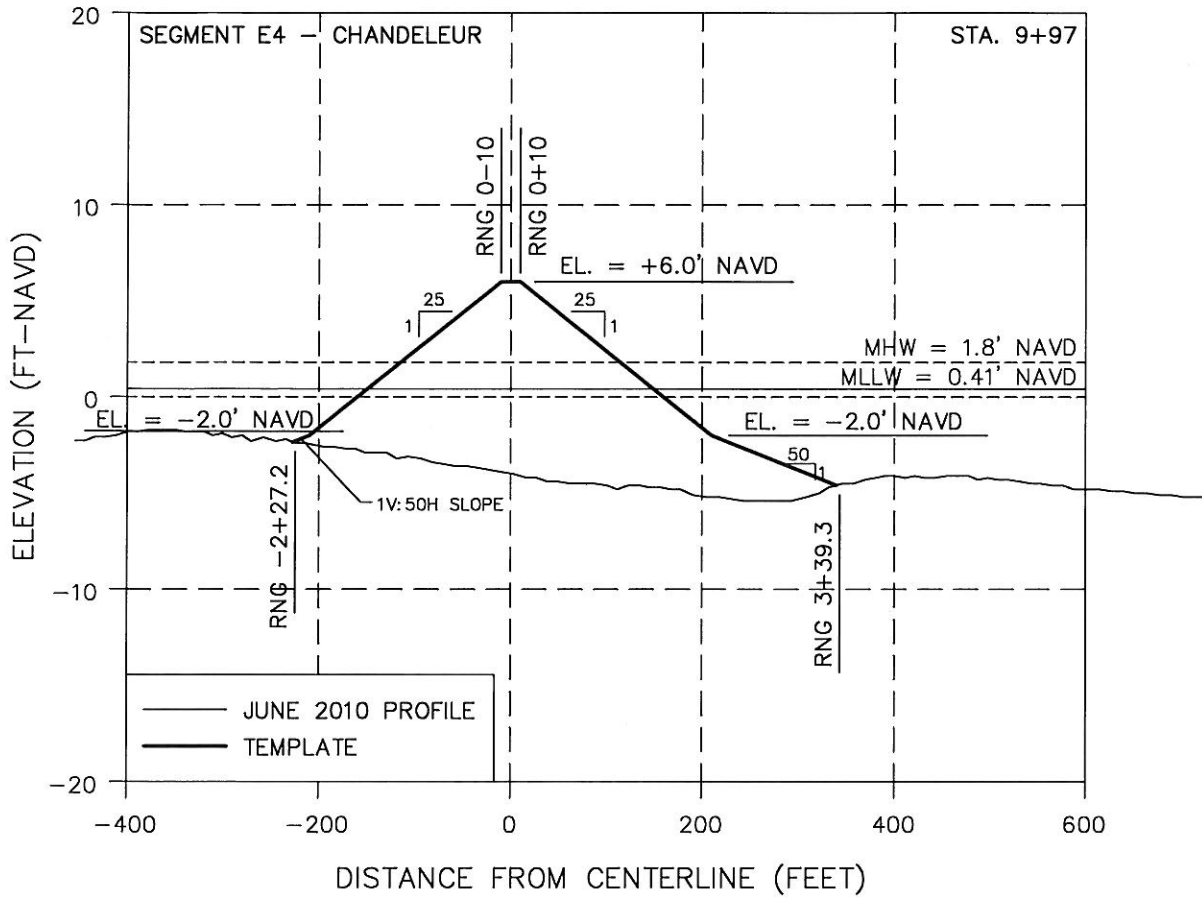
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

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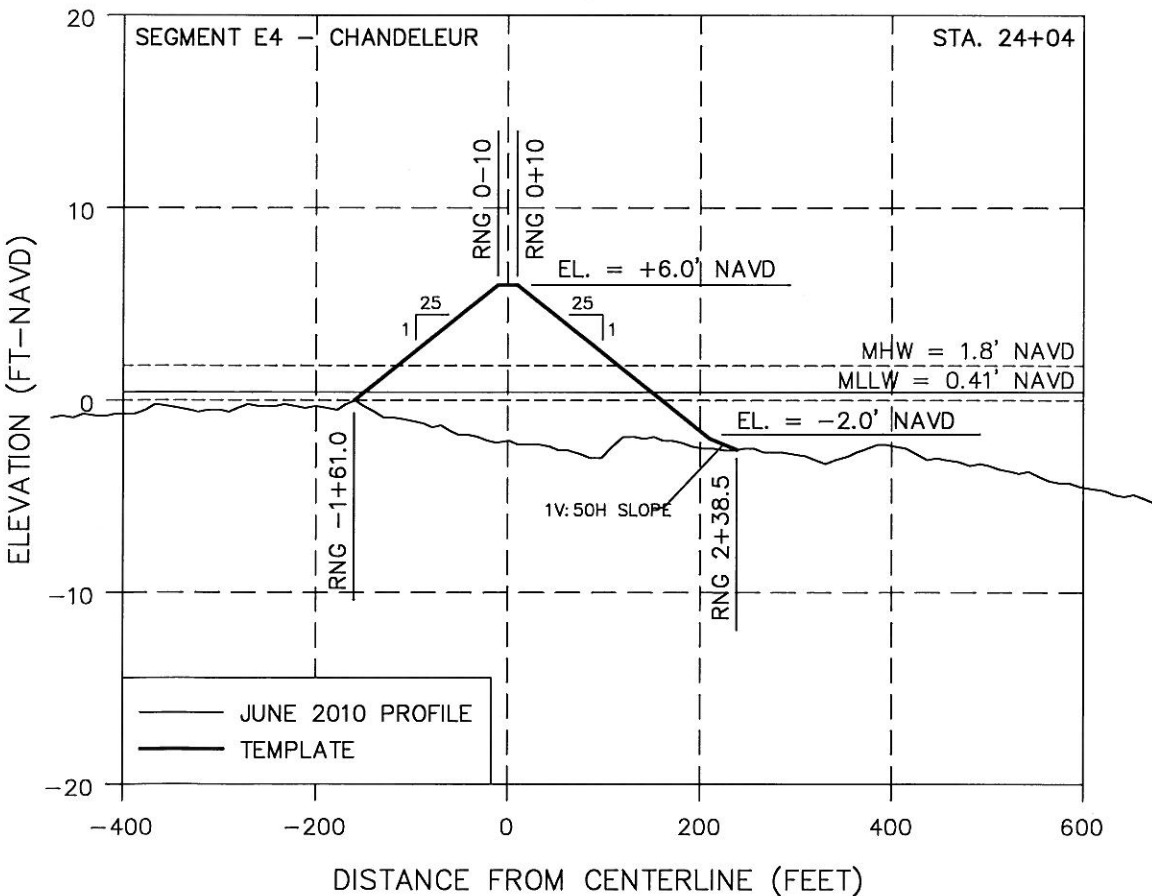
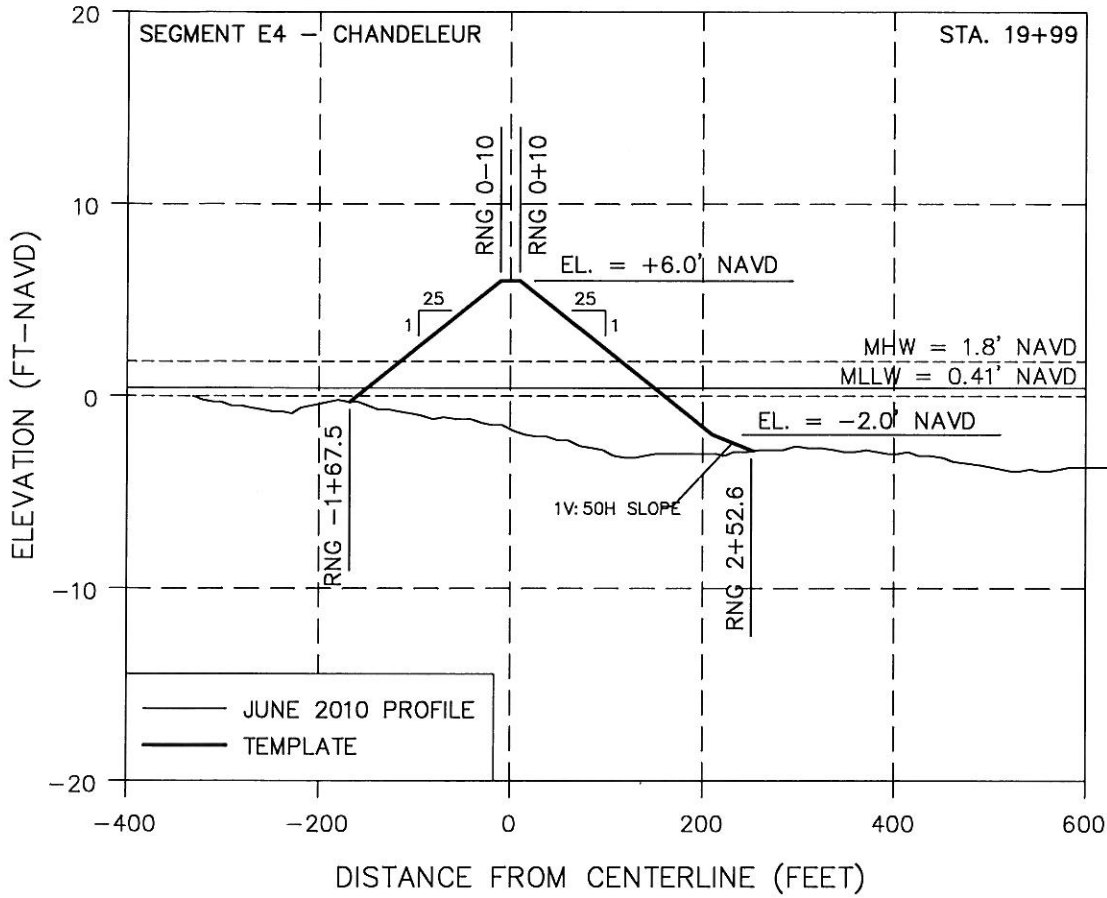
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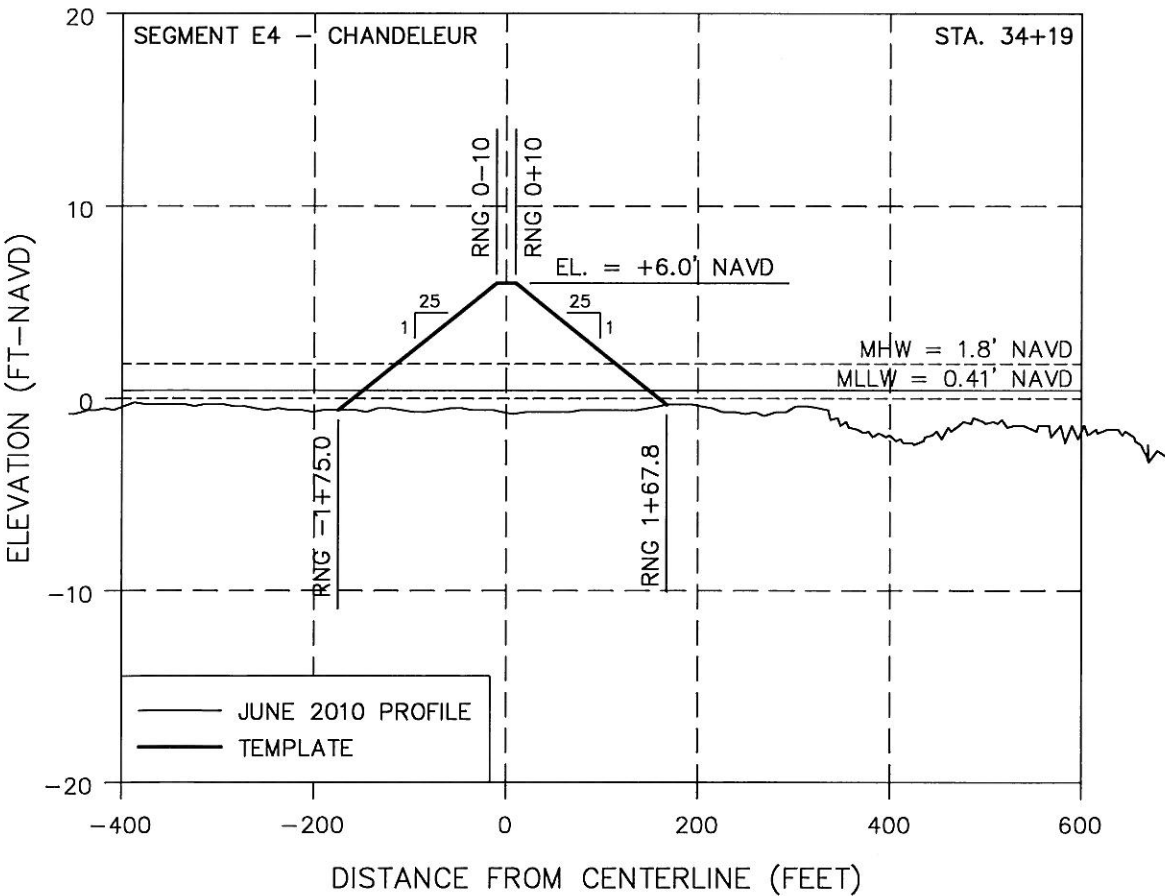
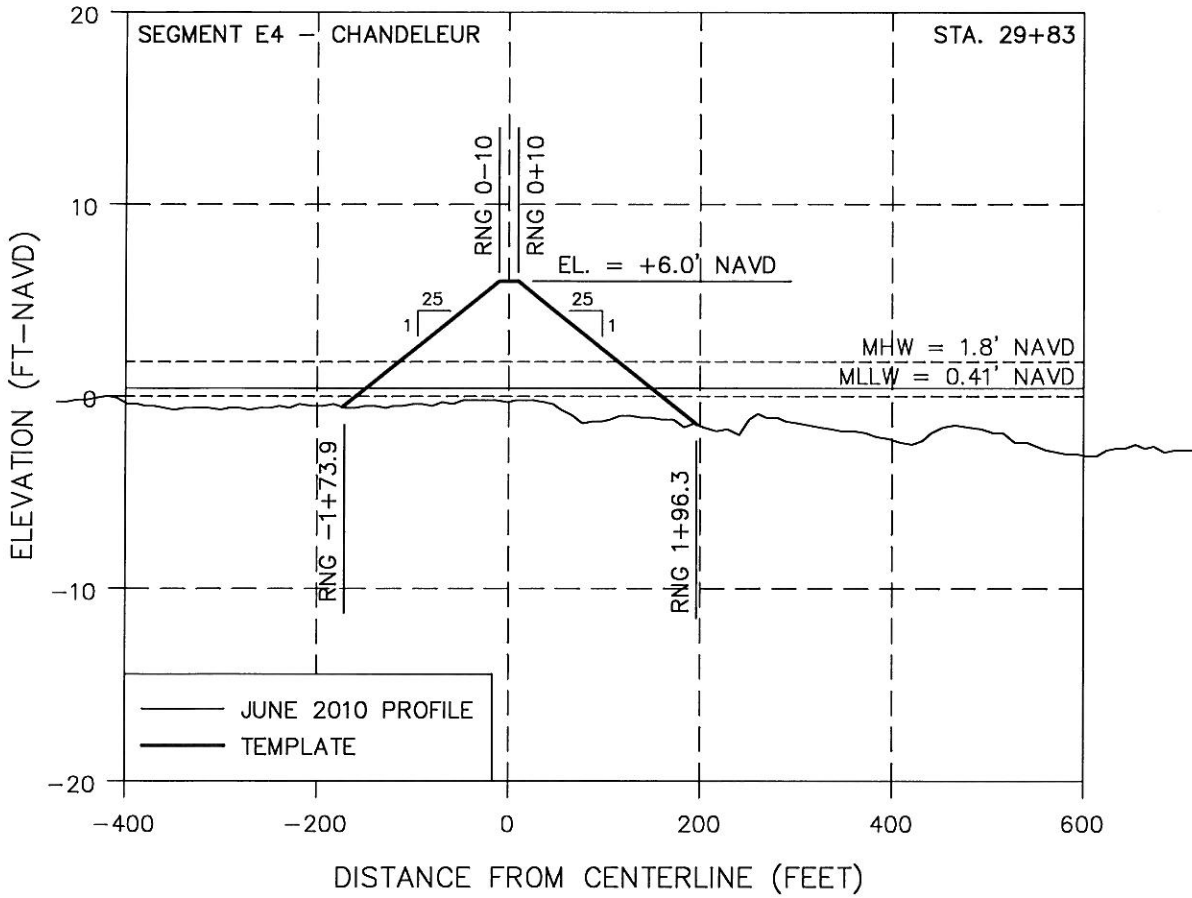
<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/2010</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 11 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		<b>SEGMENT E4</b> <b>PROFILES</b>
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		<b>BARRIER ISLAND</b> <b>DEFENSE</b>
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:
DRAWN BY:		DATE:  SHEET 12 OF 26

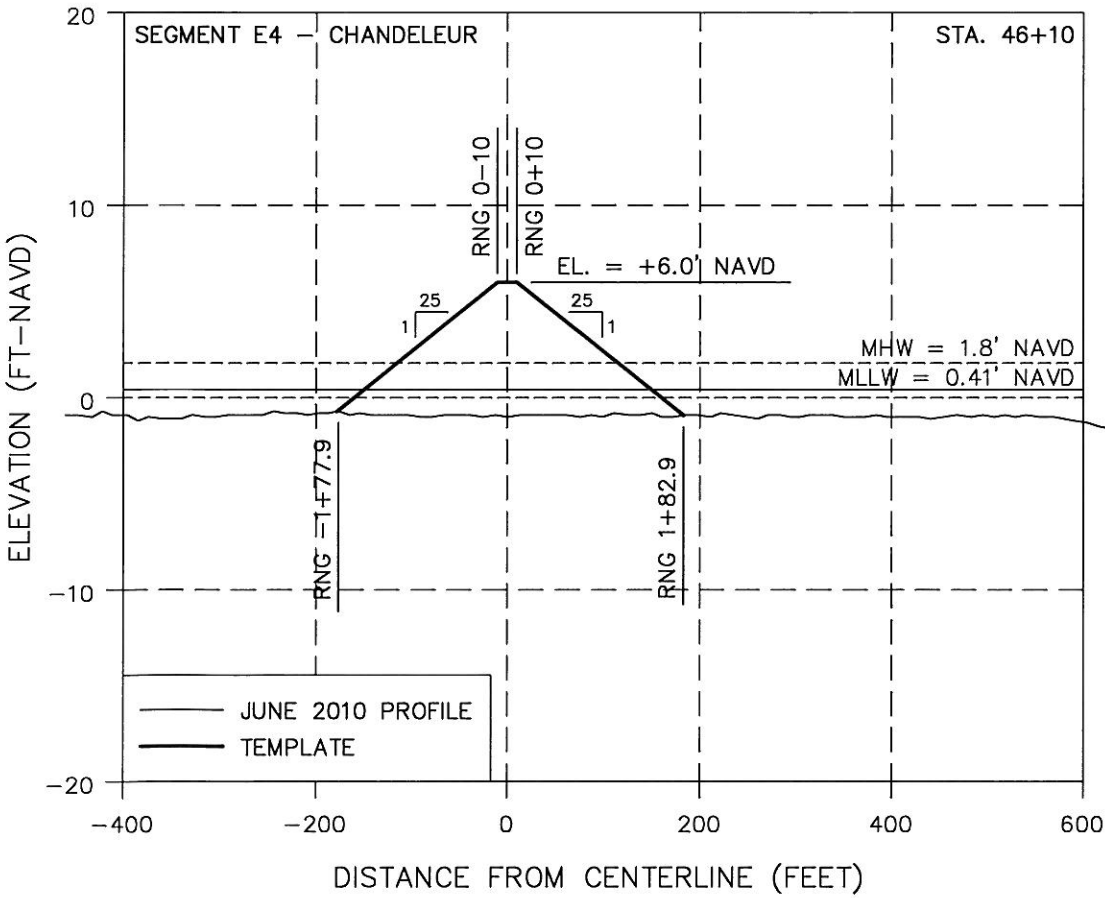
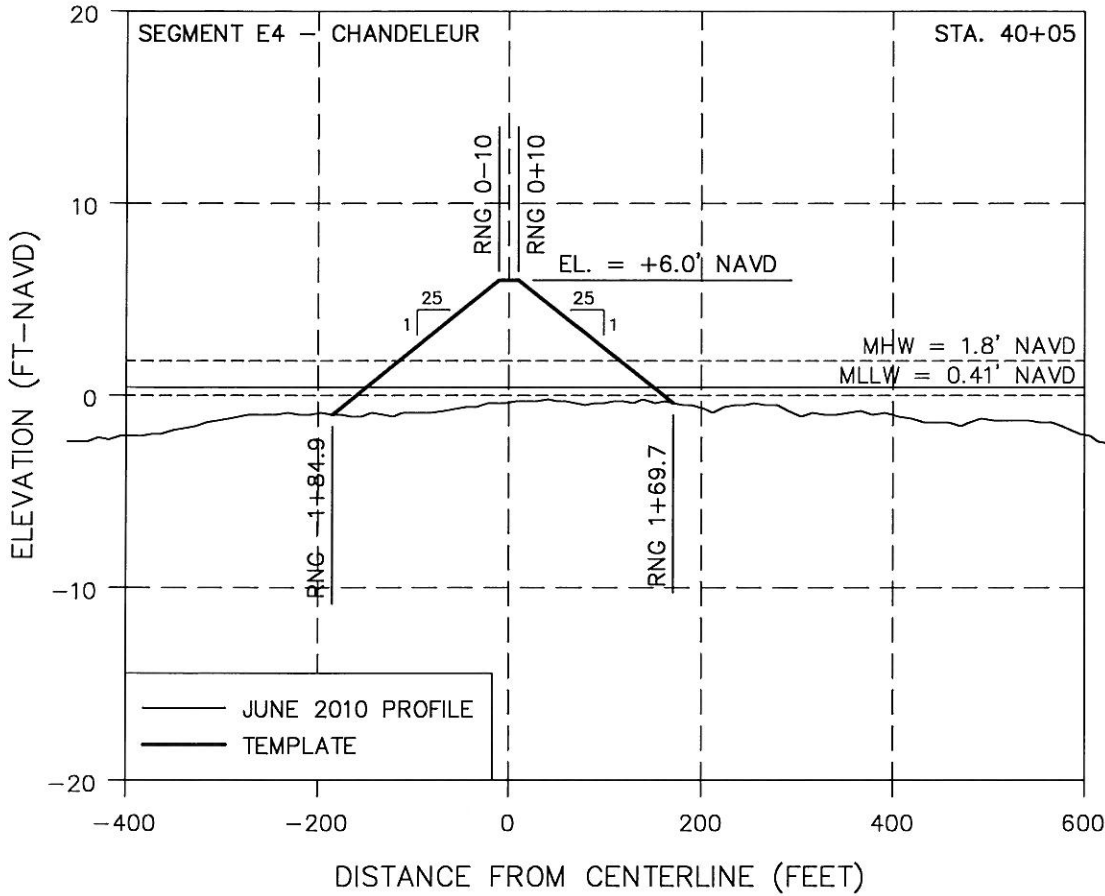


<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 13 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>

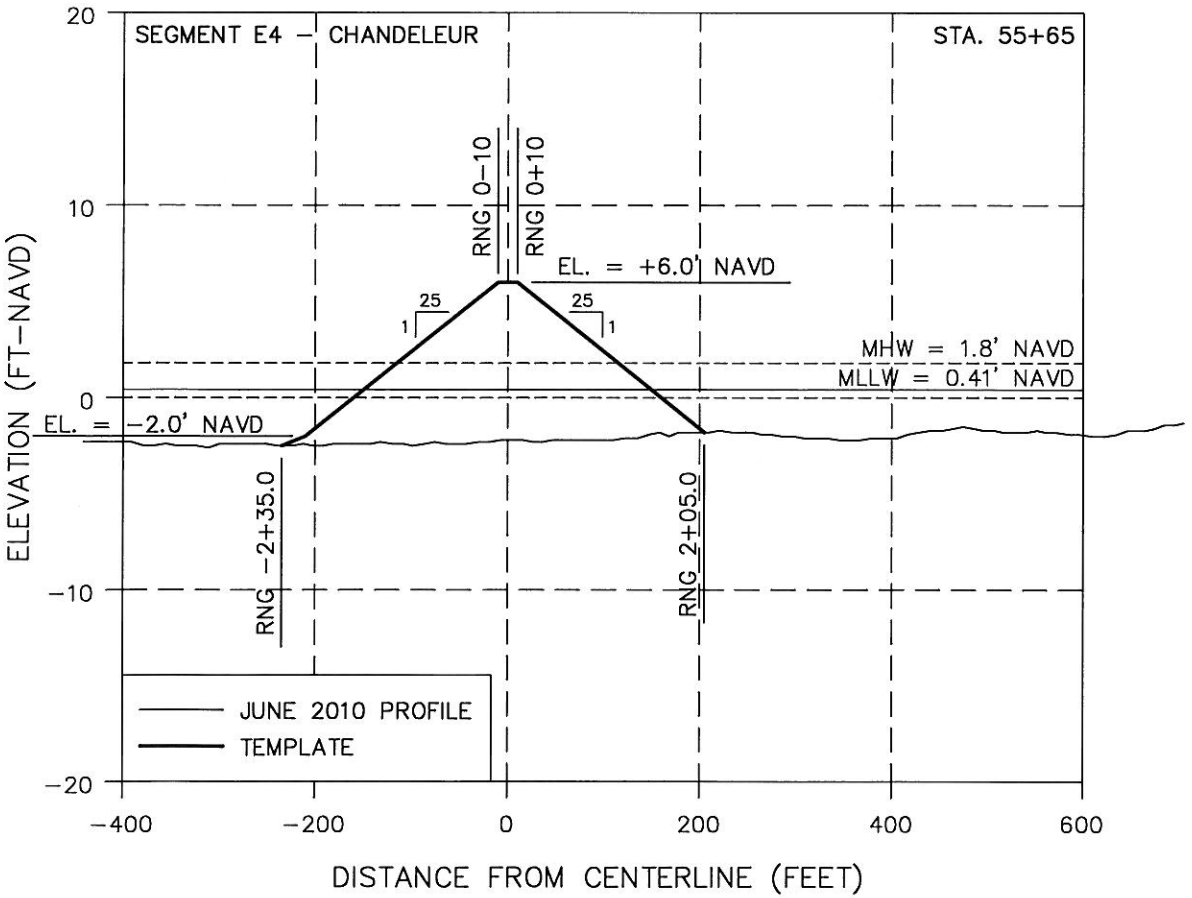
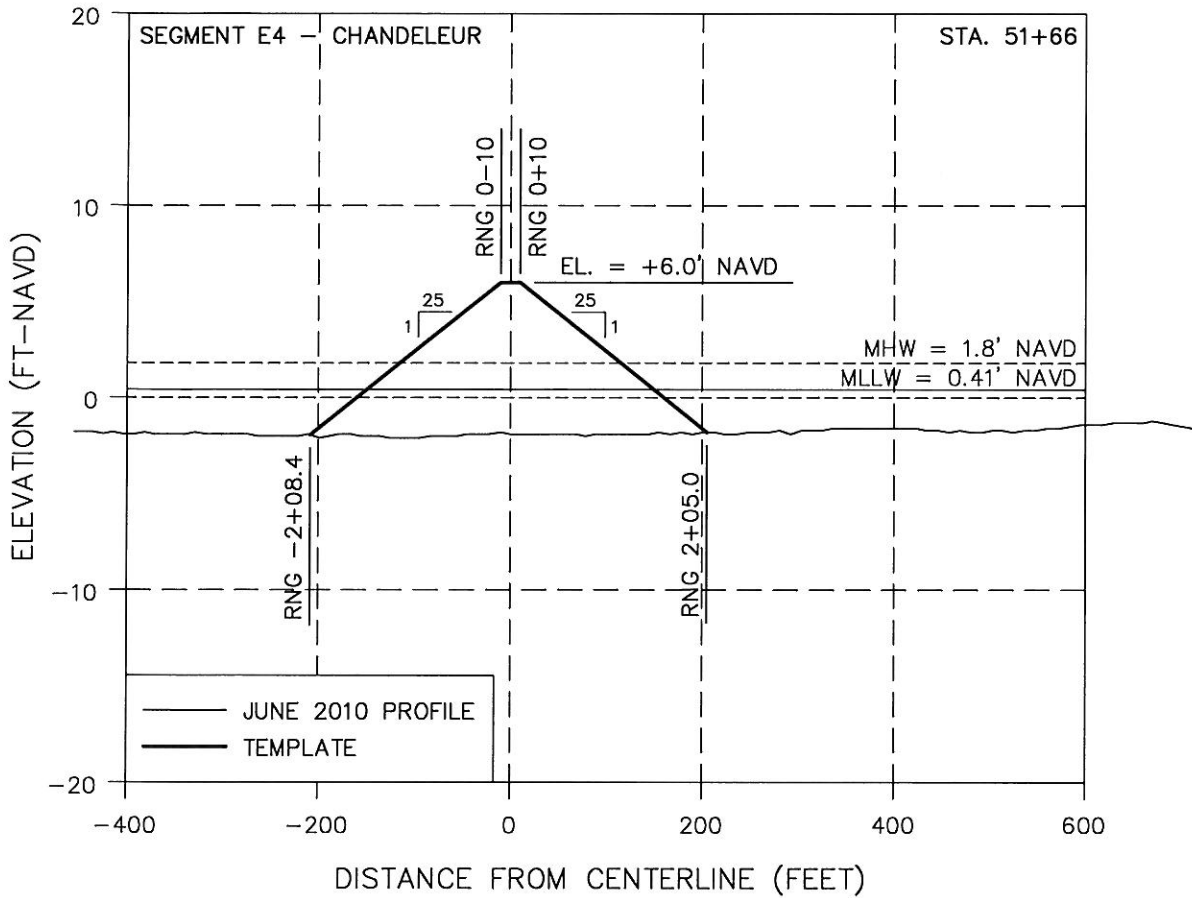


<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
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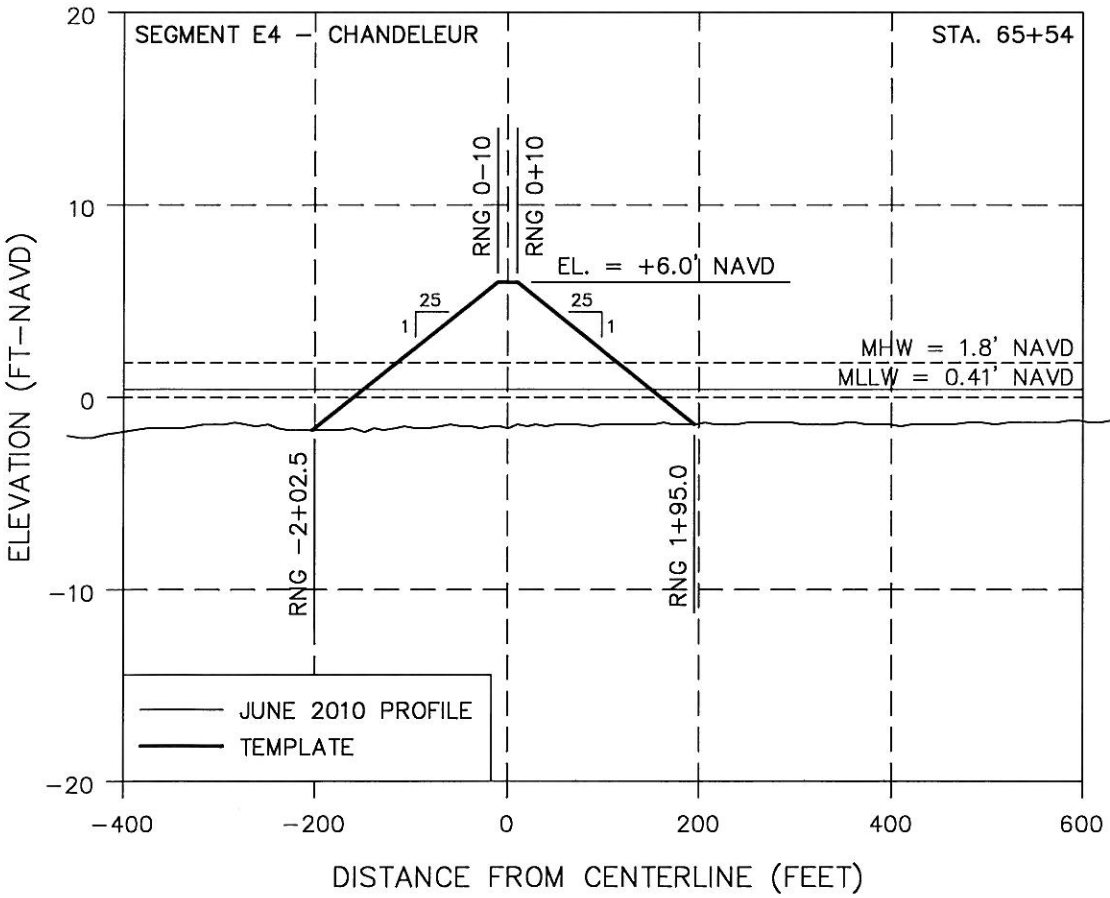
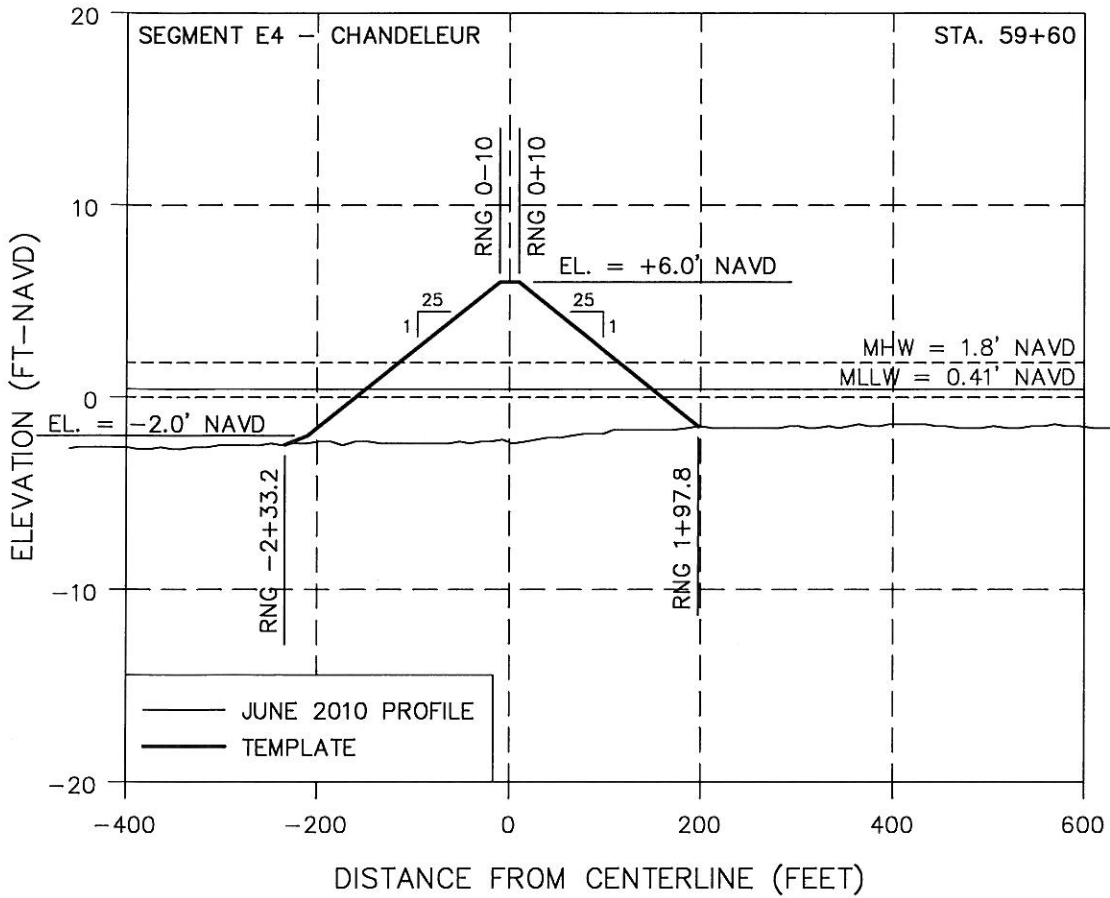
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<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION  <b>ENGINEERING BRANCH</b>          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>		<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION  <b>ENGINEERING BRANCH</b>          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>		<p>SEGMENT E4          PROFILES</p>
<p>APPLICATION BY:          OFFICE OF COASTAL PROTECTION &amp; RESTORATION          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>		<p>DESIGNED BY:</p>		<p>BARRIER ISLAND          DEFENSE</p>
<p>DRAWN BY:</p>		<p>APPROVED BY:</p>		<p>STATE PROJECT NUMBER:</p>
<p>DATE:</p>		<p>FEDERAL PROJECT NUMBER:</p>		<p>DATE:</p>
<p>SHEET 15 OF 26</p>		<p>SHEET 15 OF 26</p>		<p>SHEET 15 OF 26</p>

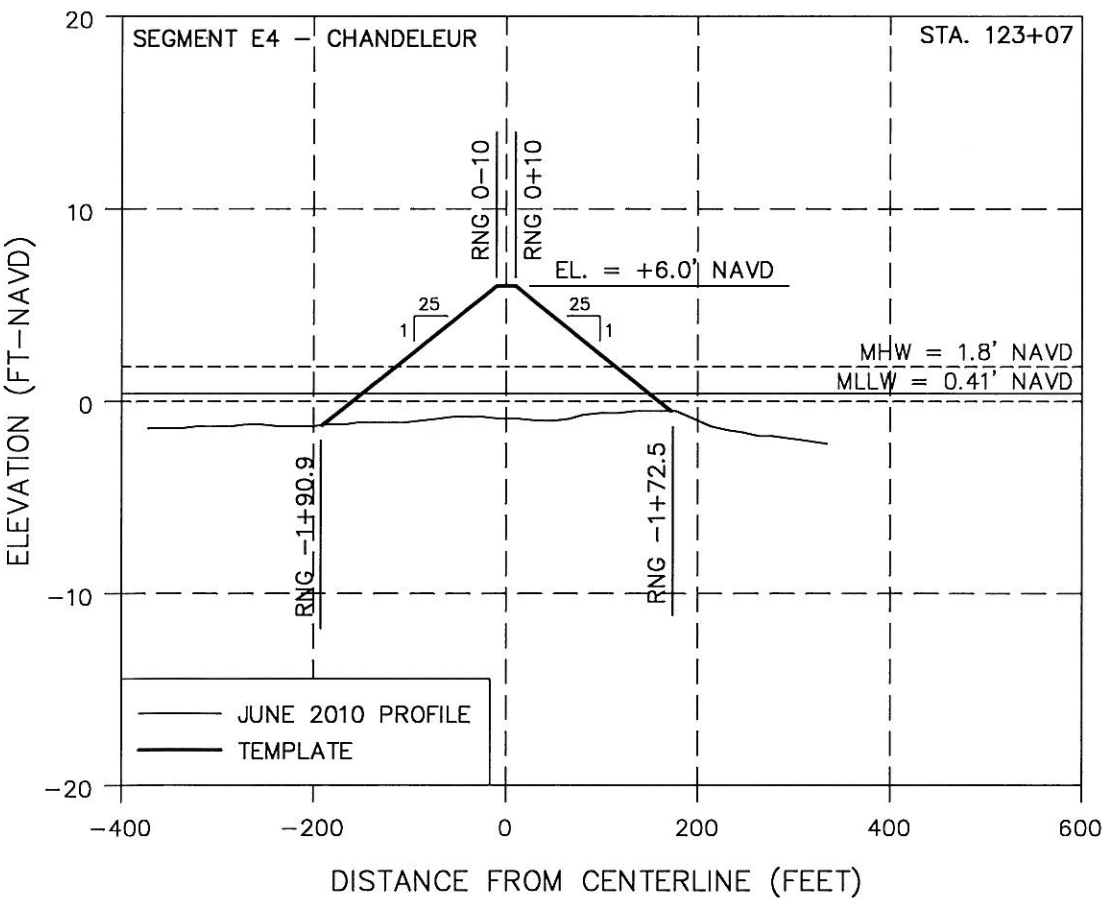
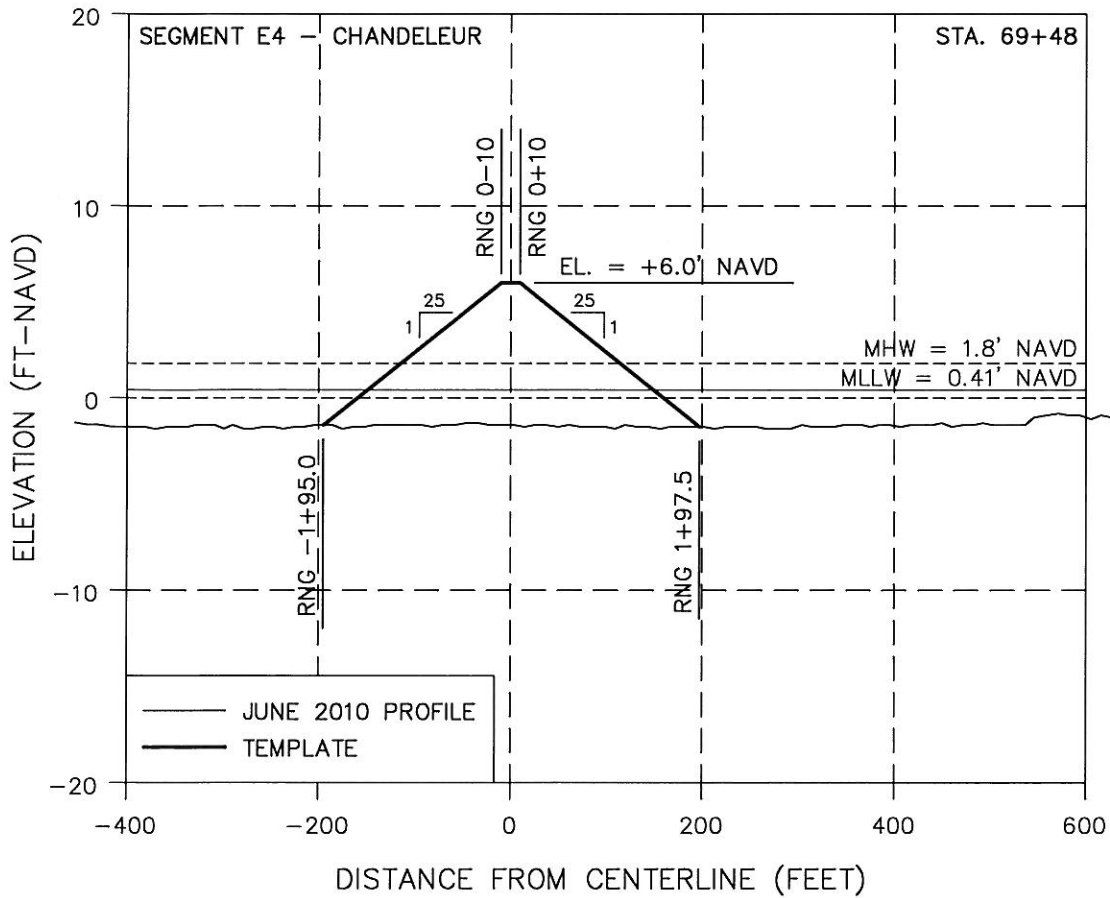


<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 16 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>

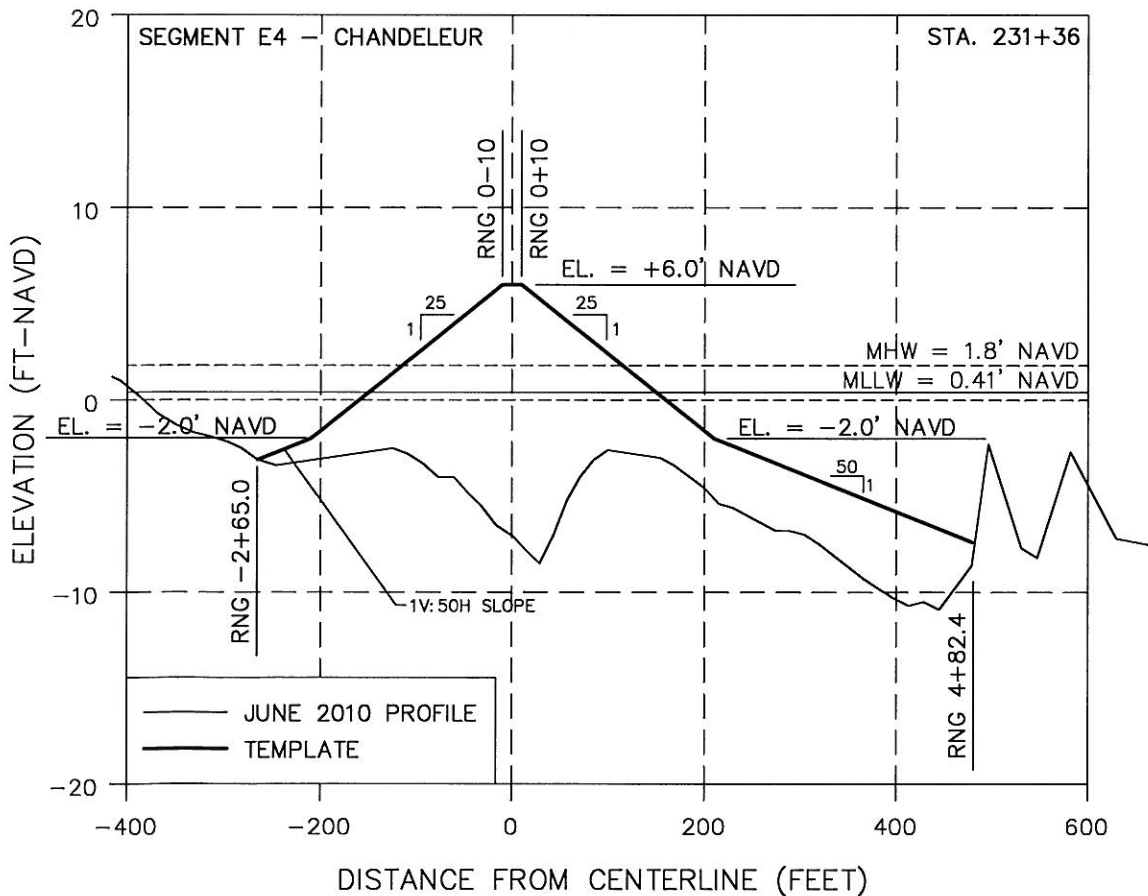
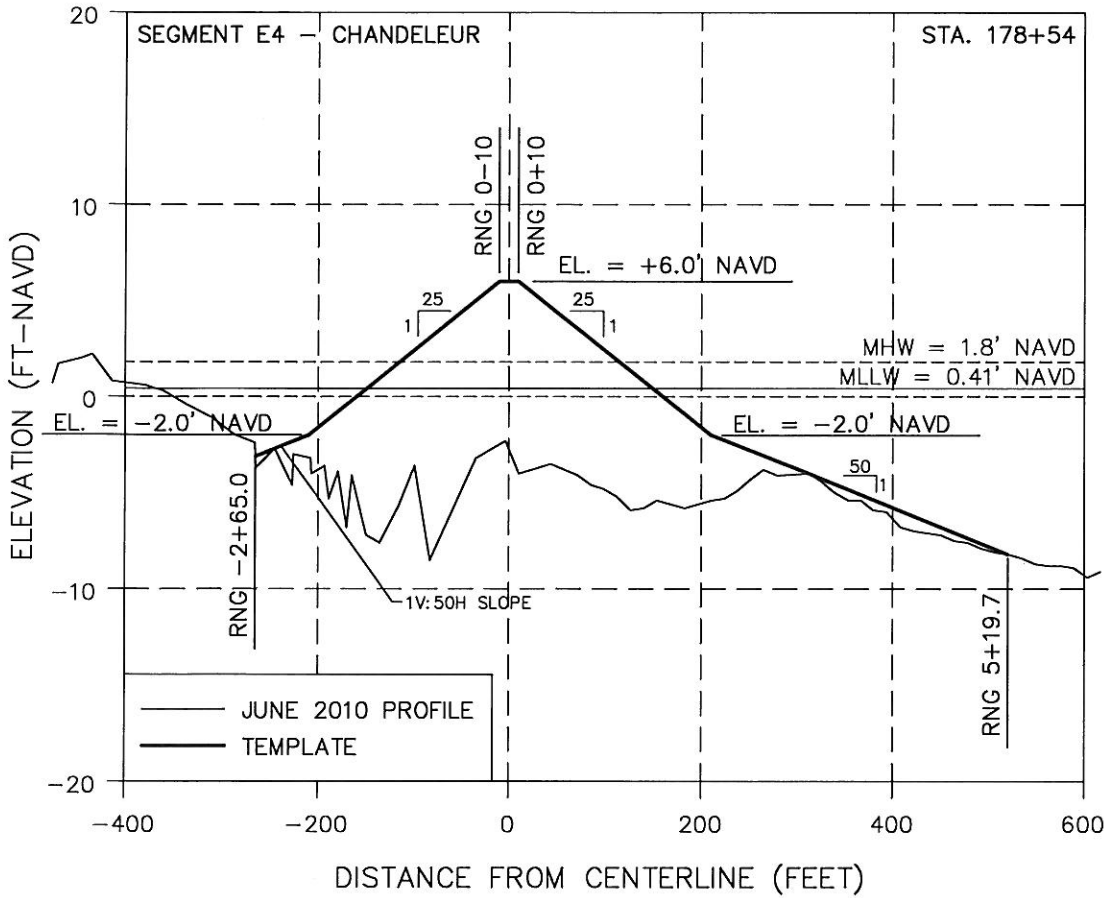


SEGMENT E4 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE:	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 17 OF 26	FEDERAL PROJECT NUMBER:	APPROVED BY:	DATE:



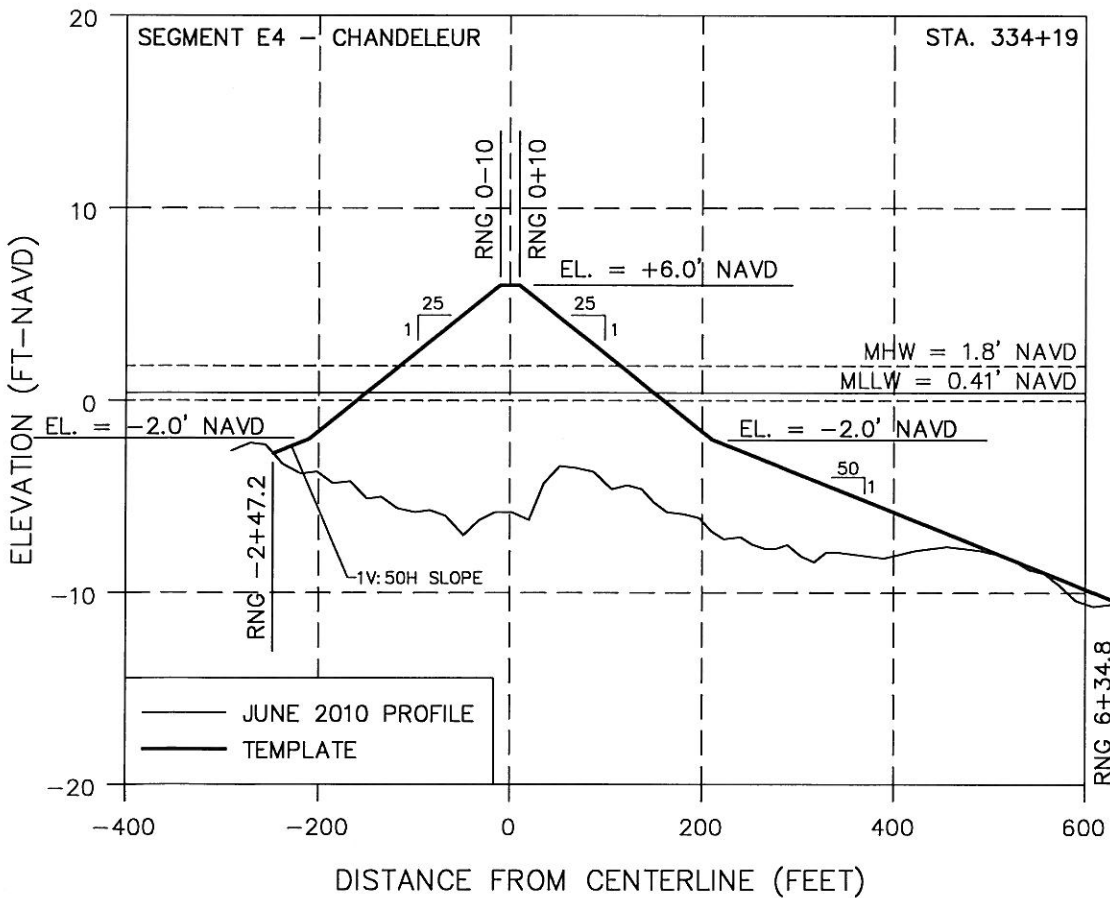
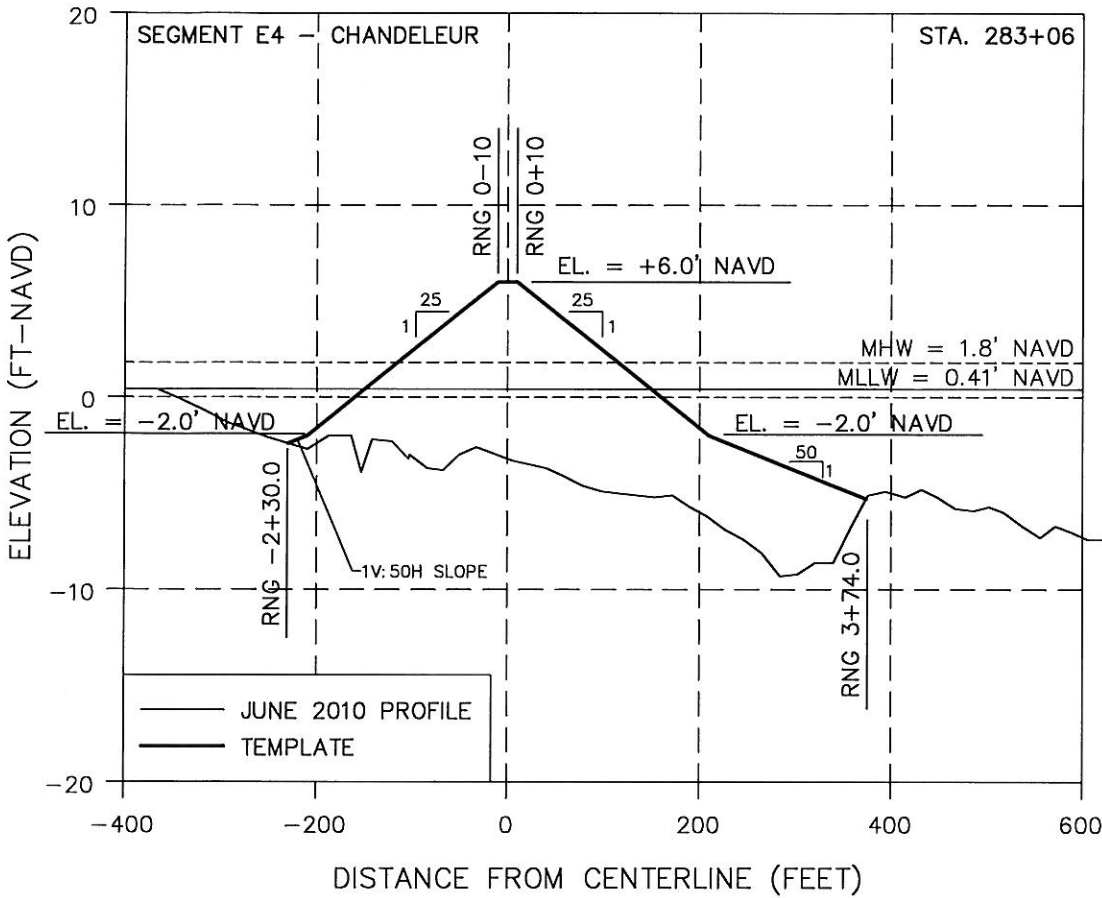


<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>		<p>DESIGNED BY:</p>
<p>SHEET 18 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p>DRAWN BY:</p>

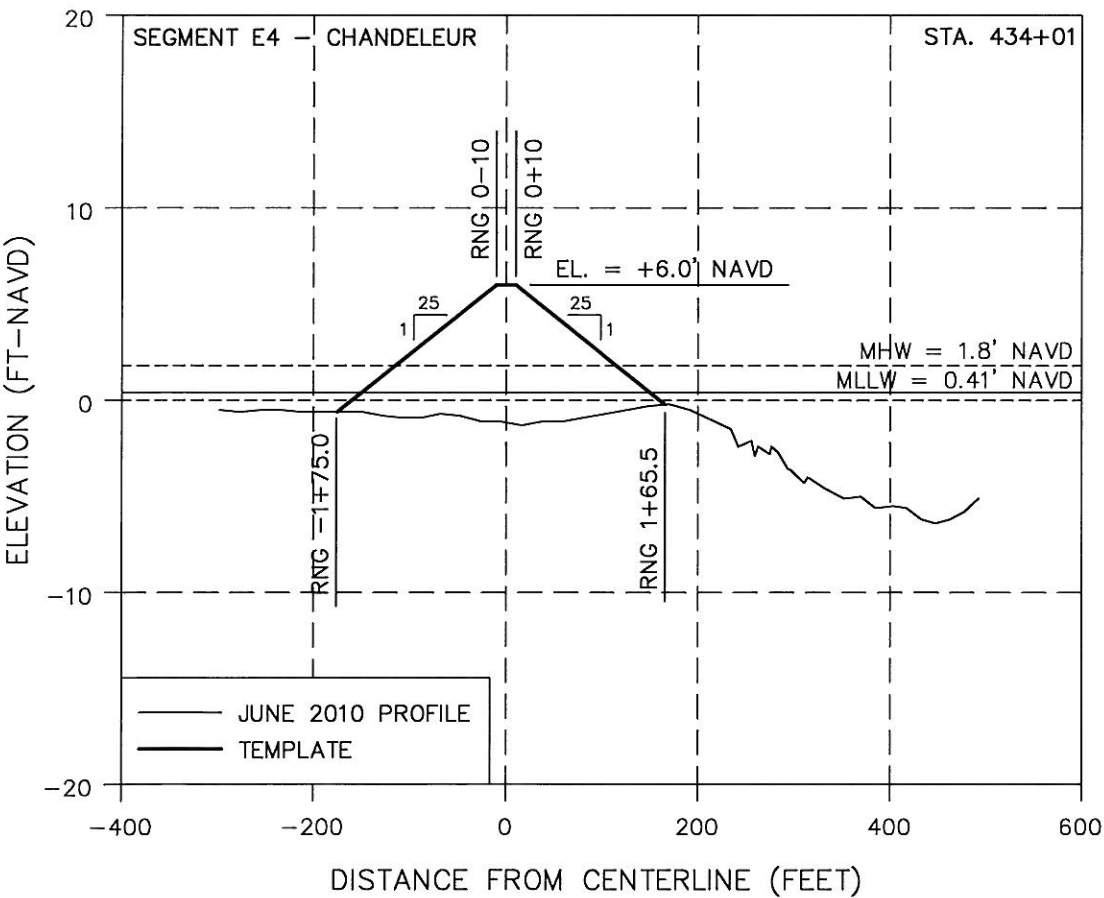
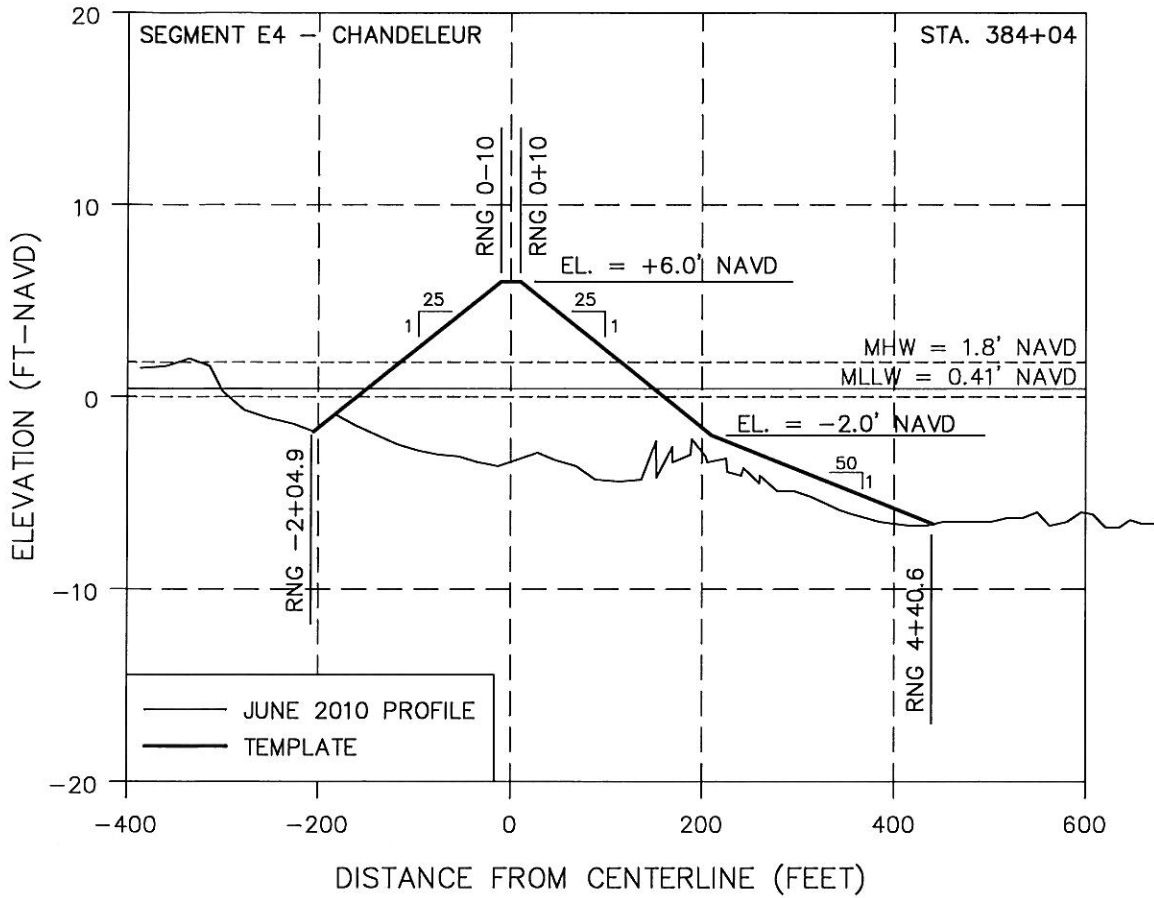


<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		<b>SEGMENT E4</b> <b>PROFILES</b>
<b>APPLICATION BY:</b> OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>DESIGNED BY:</b>	<b>BARRIER ISLAND</b> <b>DEFENSE</b>
<b>APPROVED BY:</b>	<b>STATE PROJECT NUMBER:</b>	<b>DATE:</b>
<b>DRAWN BY:</b>	<b>FEDERAL PROJECT NUMBER:</b>	<b>SHEET 19 OF 26</b>

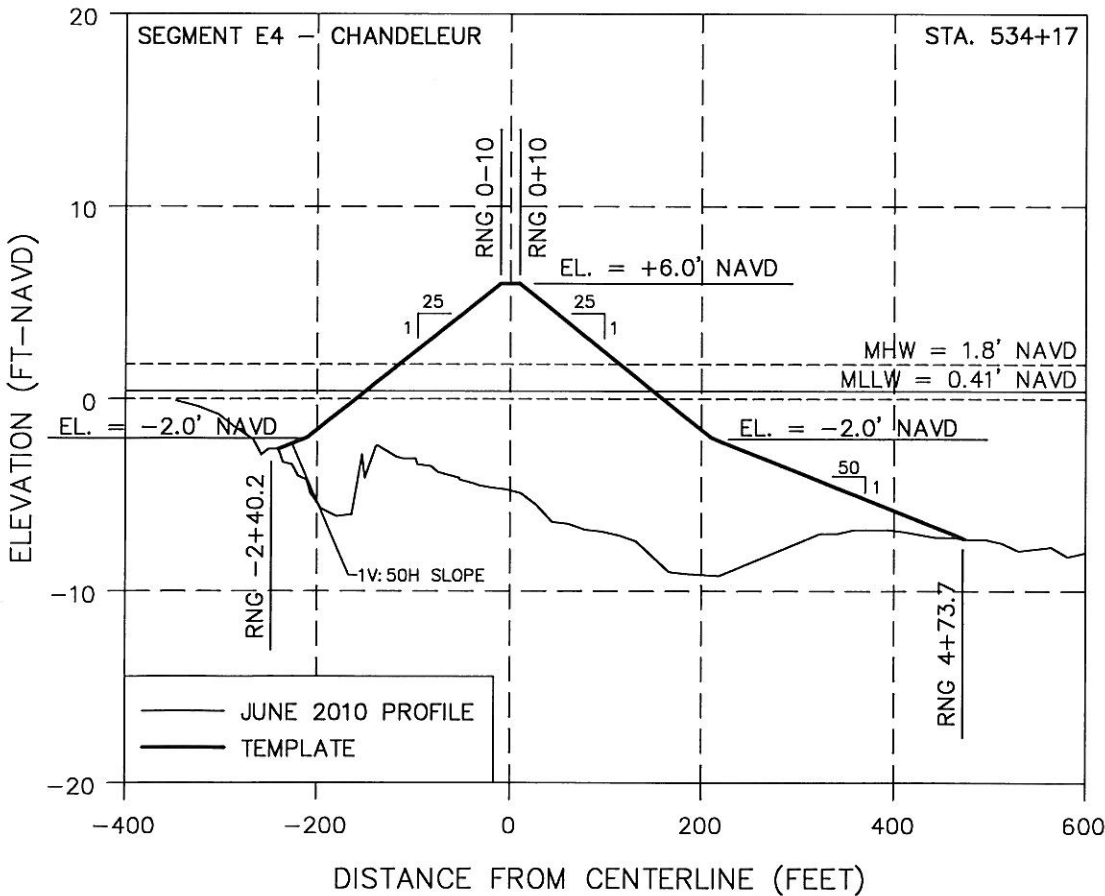
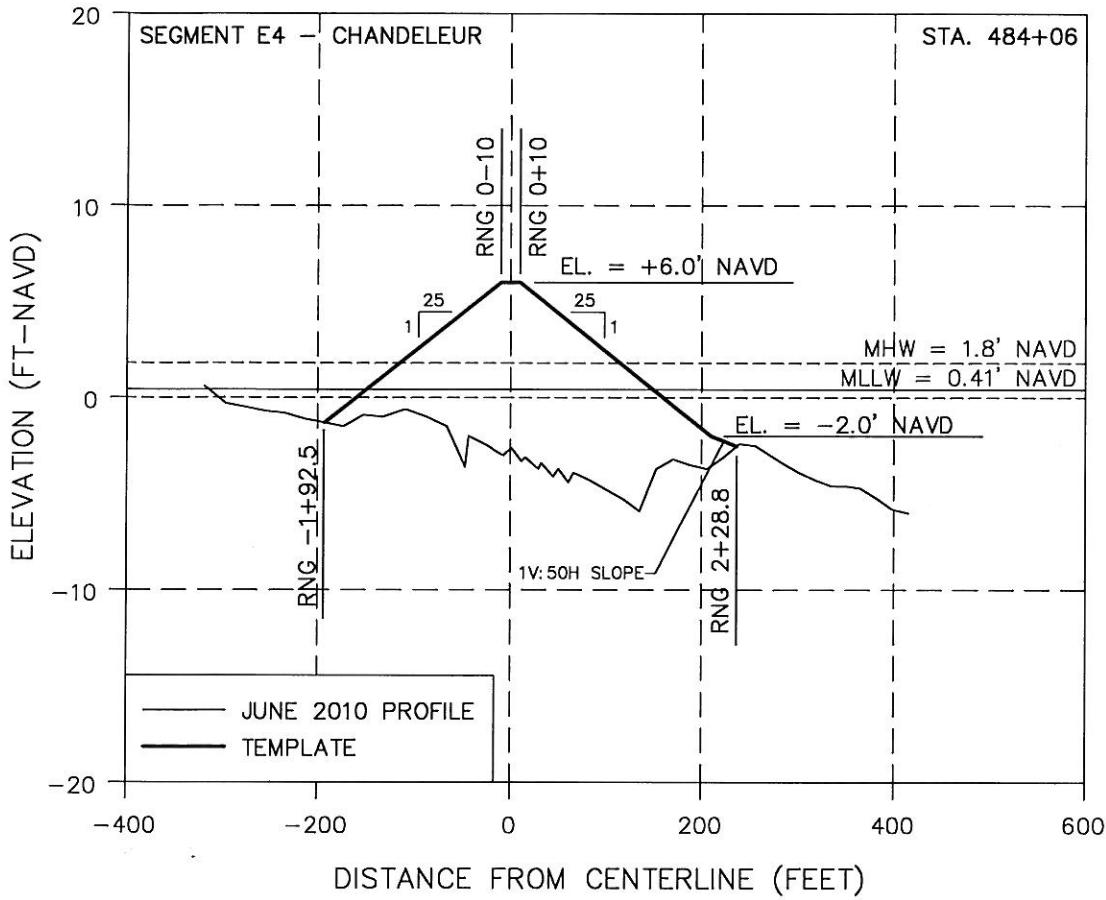
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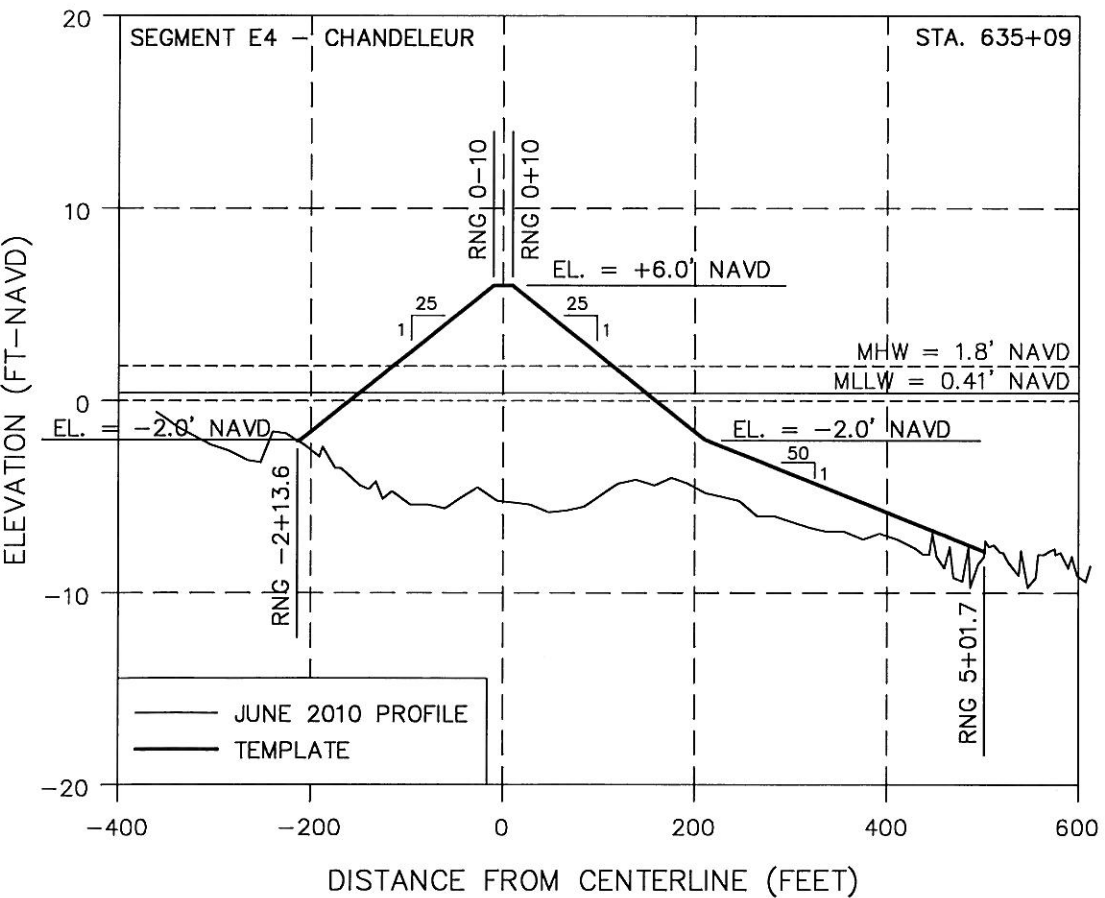
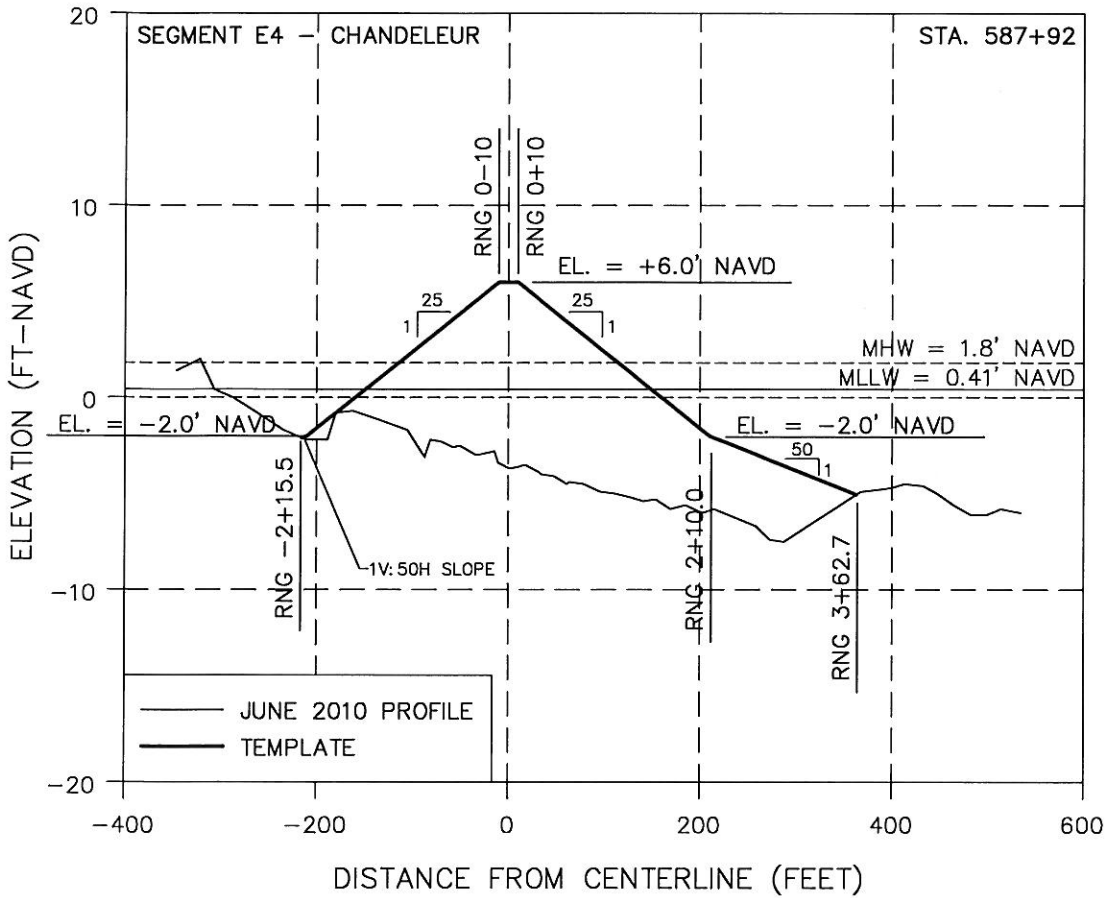
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BARRIER ISLAND DEFENSE		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DESIGNED BY:	APPROVED BY:
		APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY:			



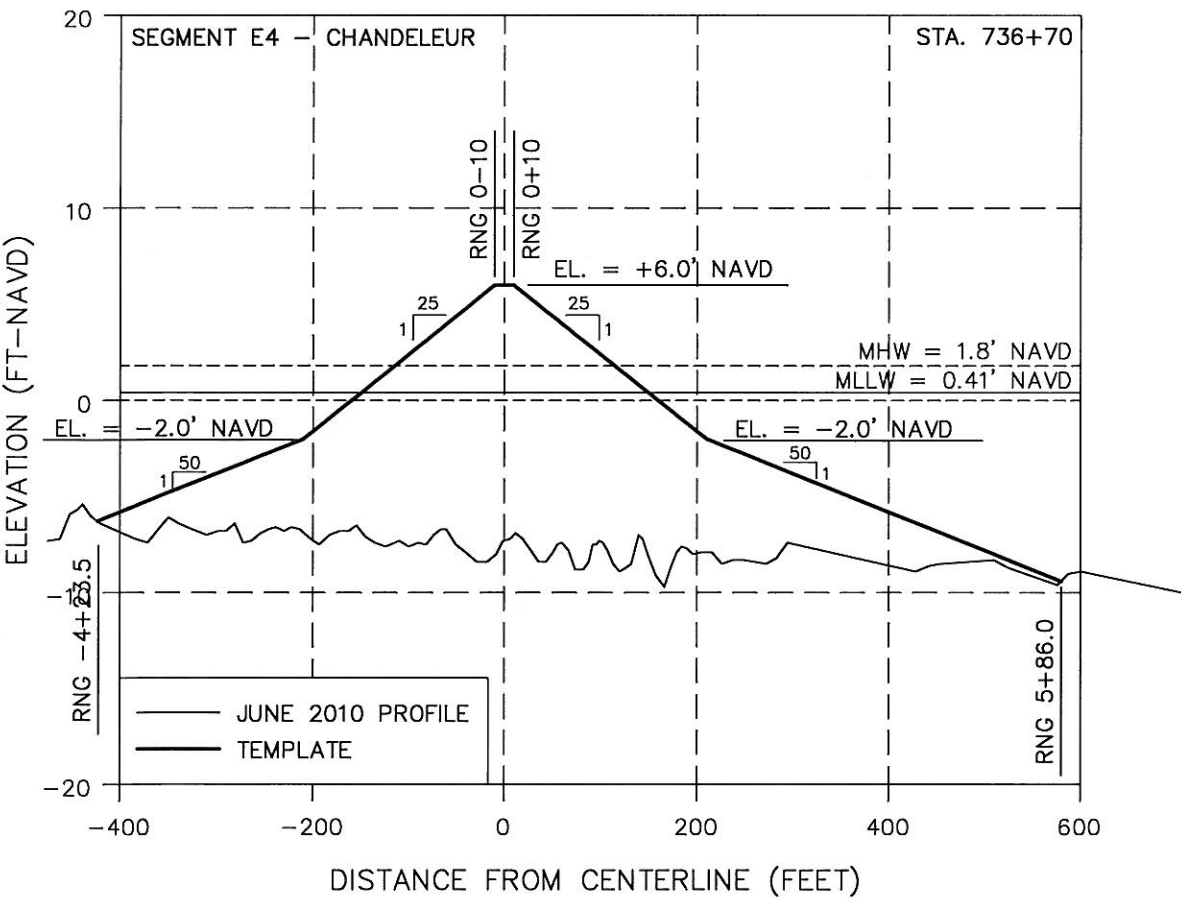
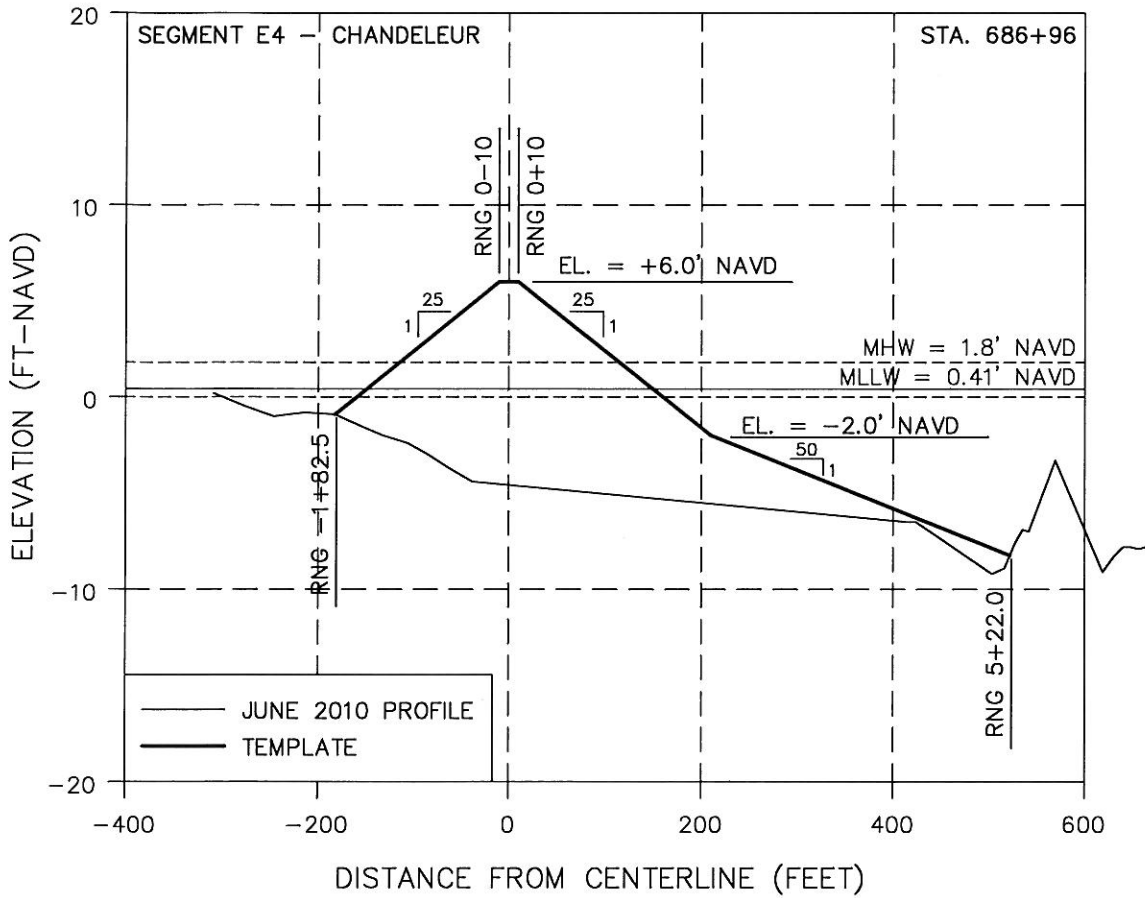
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		SEGMENT E4 PROFILES
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	BARRIER ISLAND DEFENSE
DRAWN BY:	APPROVED BY:	STATE PROJECT NUMBER:
		DATE:
		FEDERAL PROJECT NUMBER:
		SHEET 21 OF 26



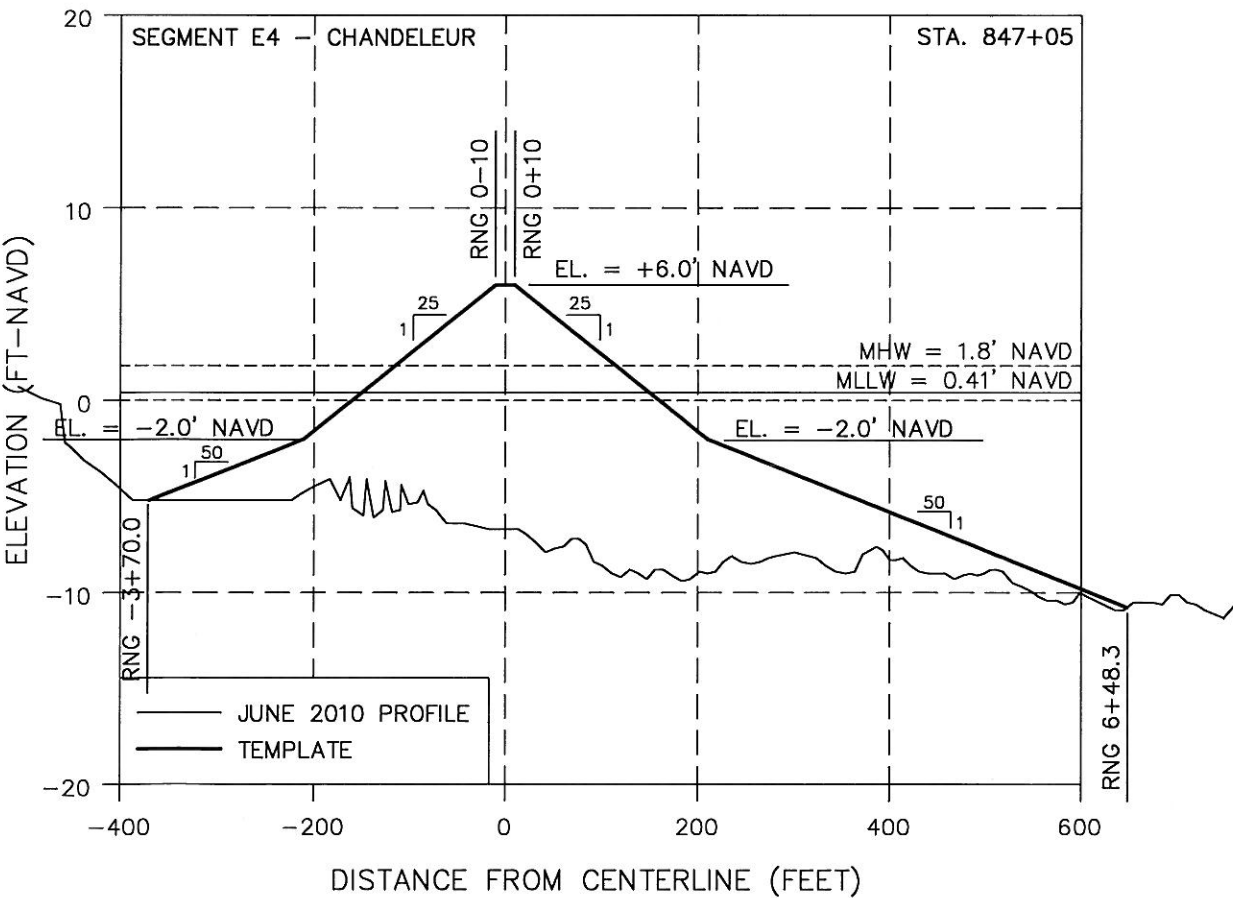
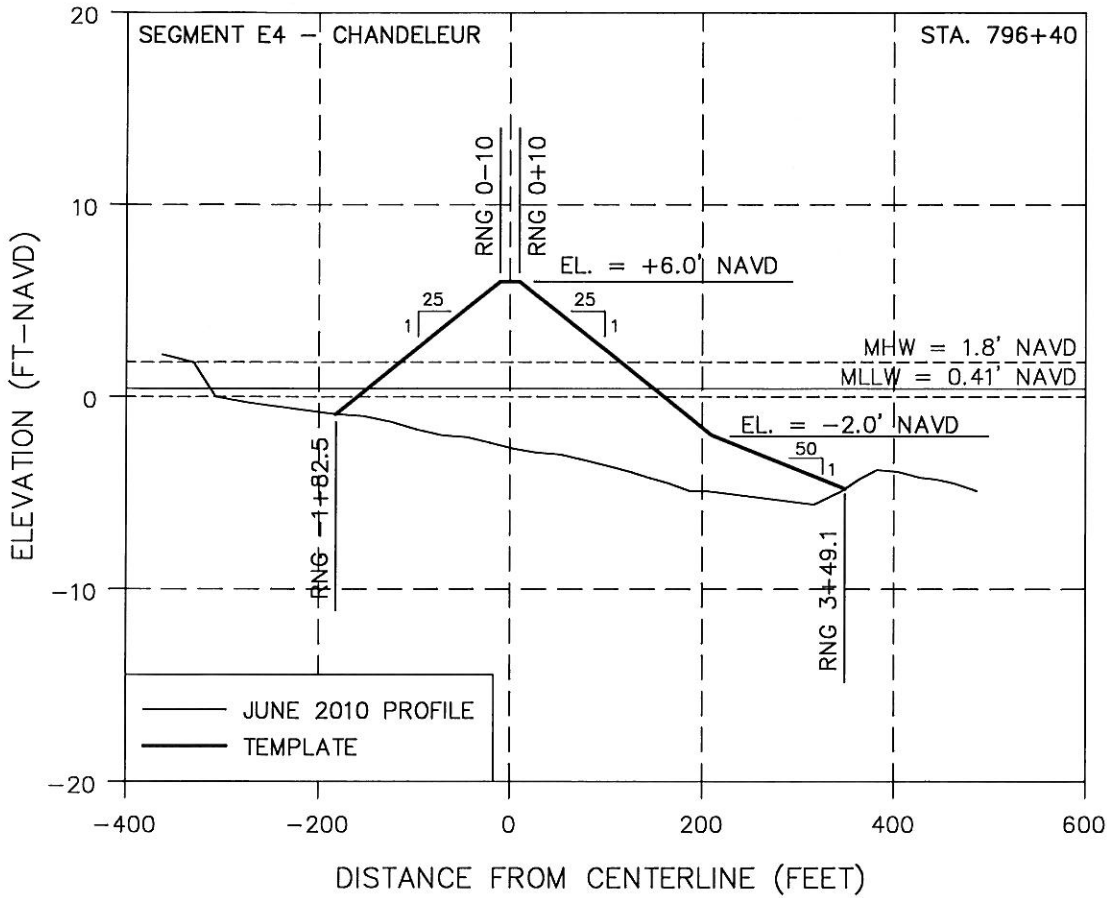
<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 22 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 23 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	

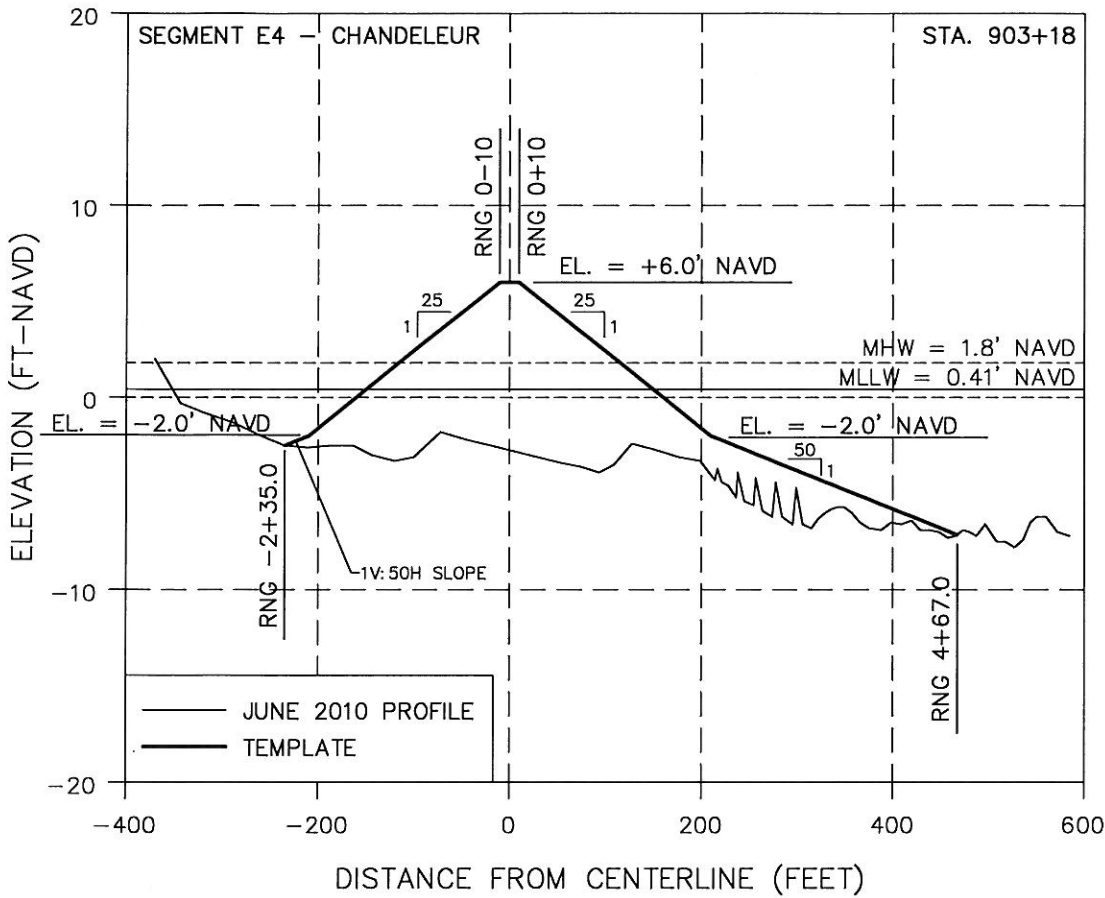


OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		SEGMENT E4 PROFILES
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	DATE: SHEET 24 OF 26
DESIGNED BY:	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
DRAWN BY:	APPROVED BY:	DATE:



SEGMENT E4 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE:	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 25 OF 26	FEDERAL PROJECT NUMBER:	APPROVED BY:	DATE:





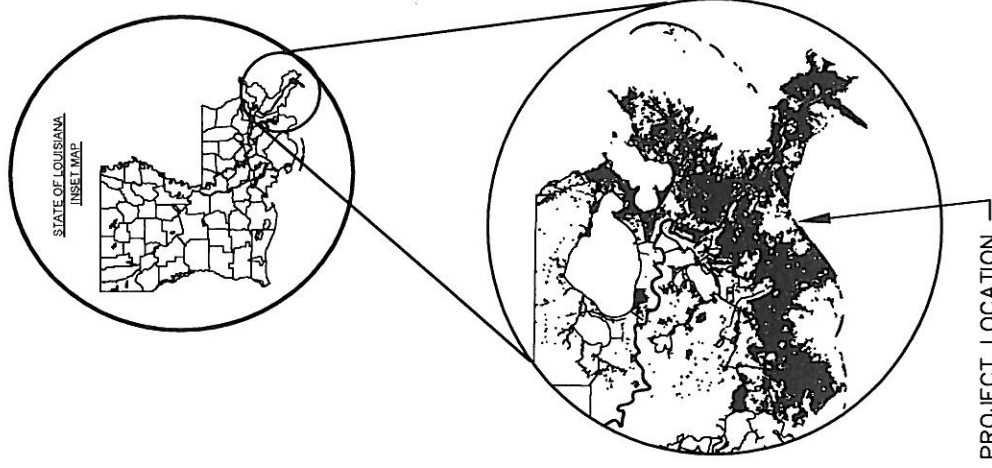
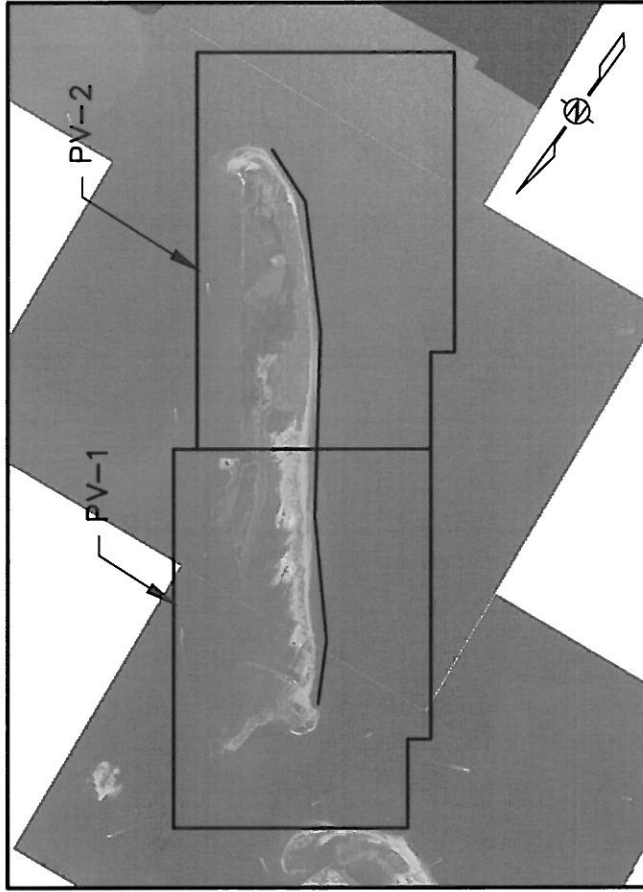
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>SEGMENT E4 PROFILES</p>
<p>DRAWN BY:</p>	<p>DESIGNED BY:</p>	<p>BARRIER ISLAND DEFENSE</p>
<p>DATE:</p>	<p>STATE PROJECT NUMBER:</p>	<p>STA. 903+18</p>
<p>SHEET 26 OF 26</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>MHW = 1.8' NAVD MLLW = 0.41' NAVD</p>

**STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH**

**SEGMENT W1  
WEST GRAND TERRE**

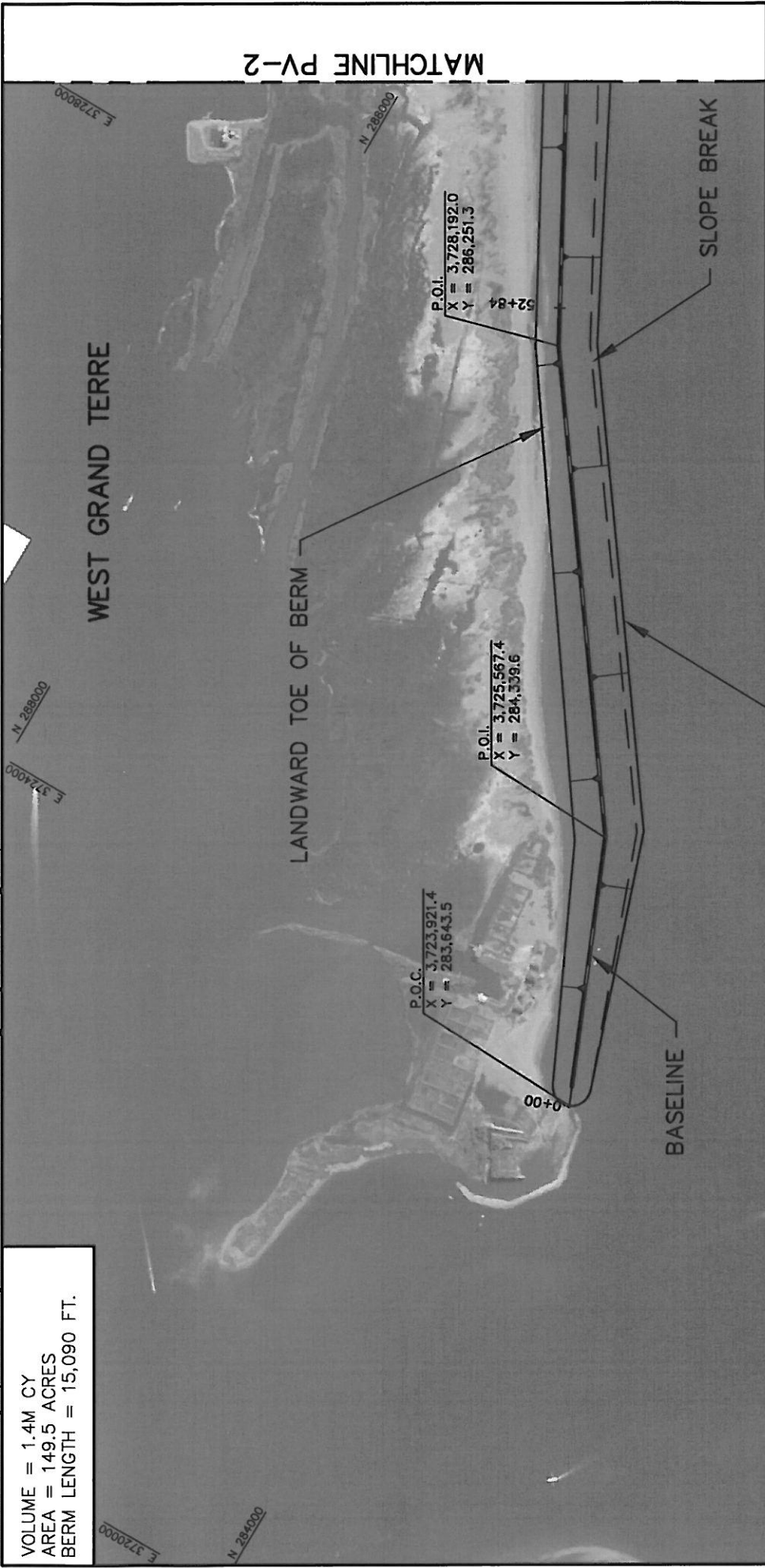
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4-5	PROFILES



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W1 TITLE SHEET
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 6/22/10
APPROVED BY:		FEDERAL PROJECT NUMBER:	SHEET 1 OF 5

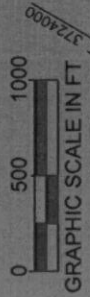
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 AREA = 149.5 ACRES  
 BERM LENGTH = 15,090 FT.



**NOTES:**

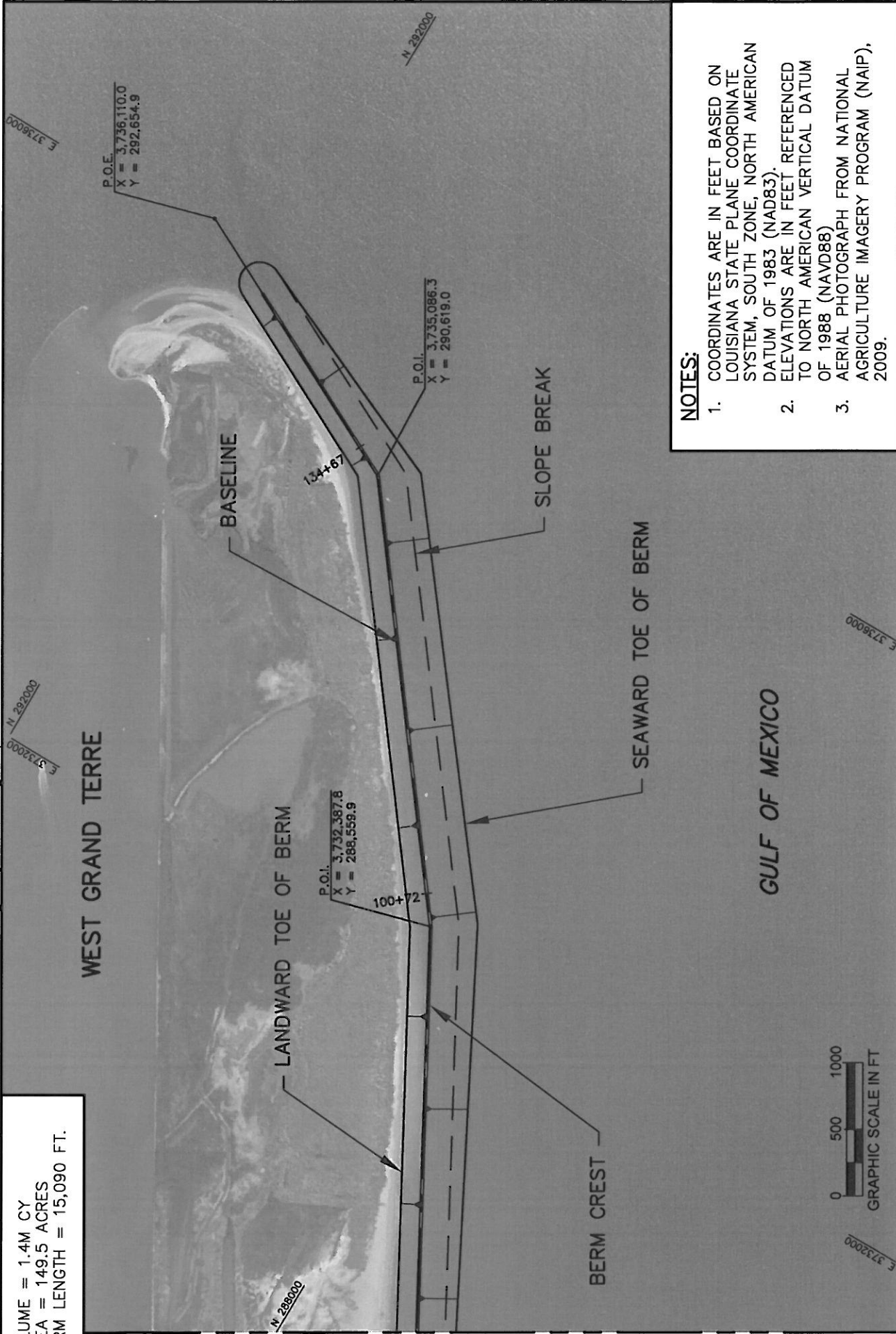
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- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W1 PLAN VIEW
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER:	DATE: 6/19/10
DESIGNED BY:	FEDERAL PROJECT NUMBER:	SHEET 2 OF 5
DRAWN BY:	APPROVED BY:	



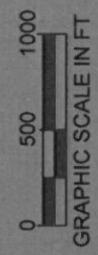
MATCHLINE PV-2

VOLUME = 1.4M CY  
 AREA = 149.5 ACRES  
 BERM LENGTH = 15,090 FT.

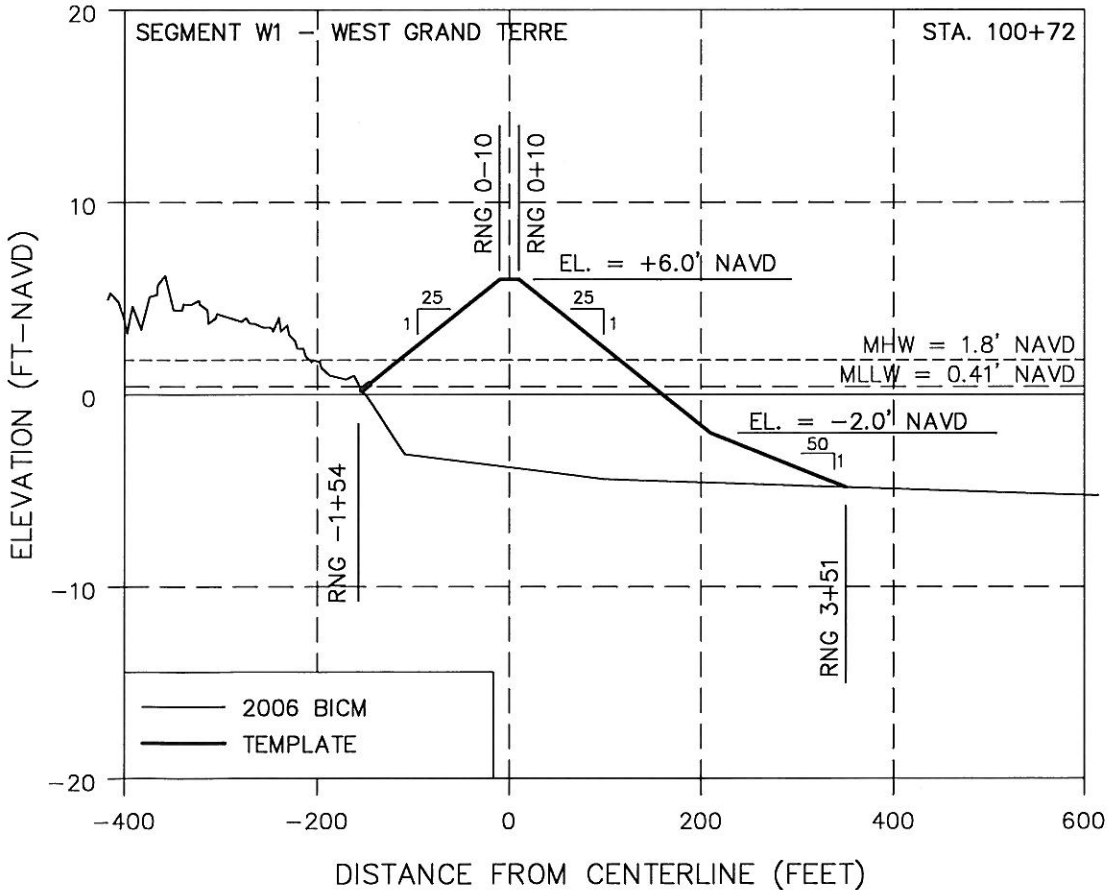
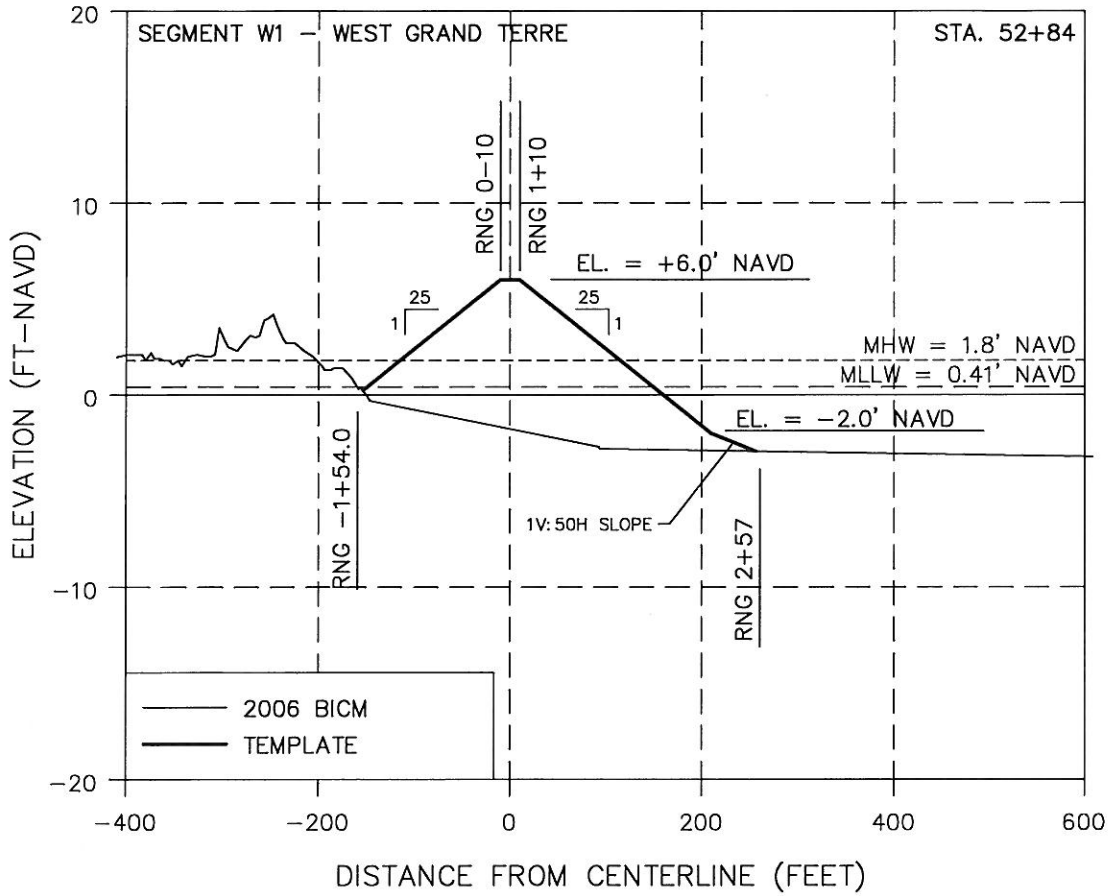


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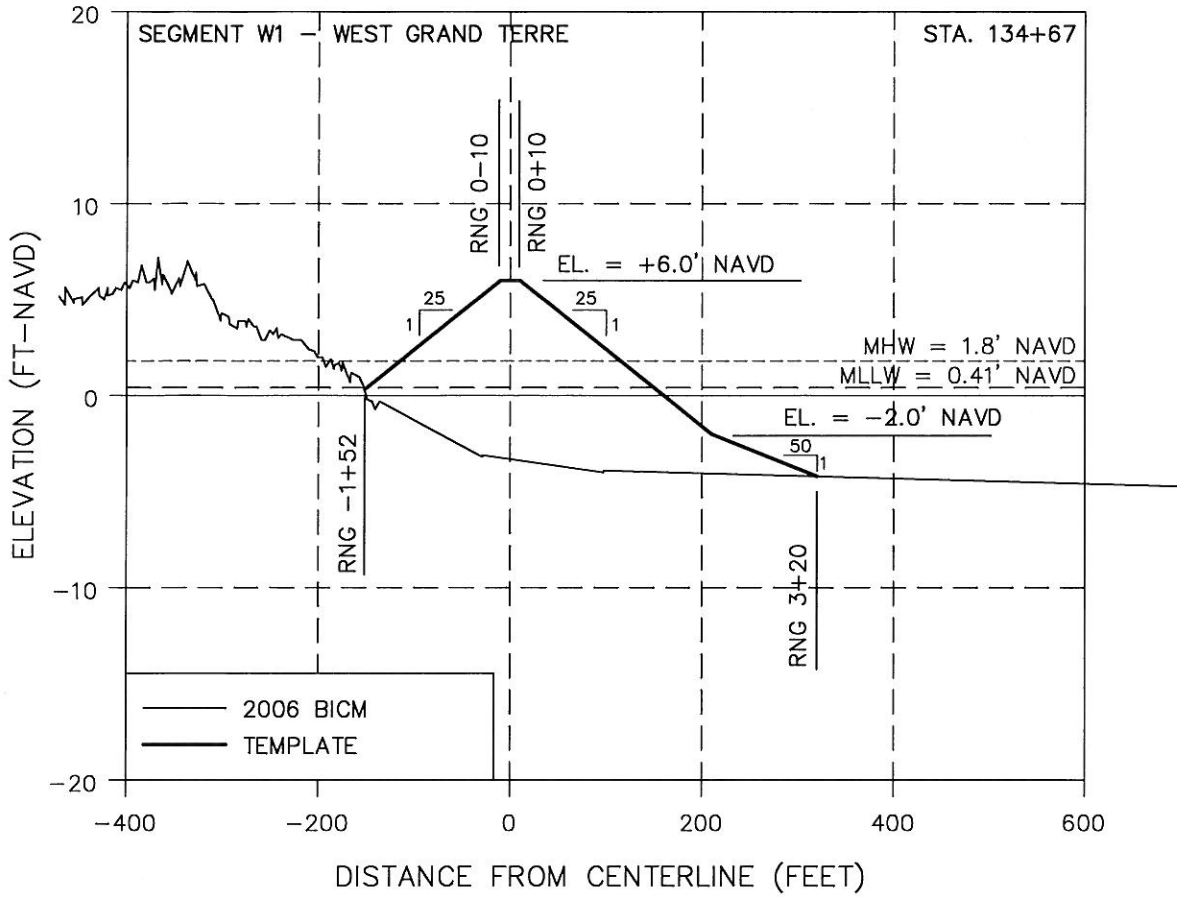
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W1 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 5



SEGMENT W1 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 6/22/2010 SHEET 4 OF 5	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:		DESIGNED BY:



<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY:</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>DRAWN BY:</p>	<p>STATE PROJECT NUMBER:</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>DATE: 6/22/10</p>
<p>SEGMENT W1 PROFILES</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>SHEET 5 OF 5</p>	<p></p>

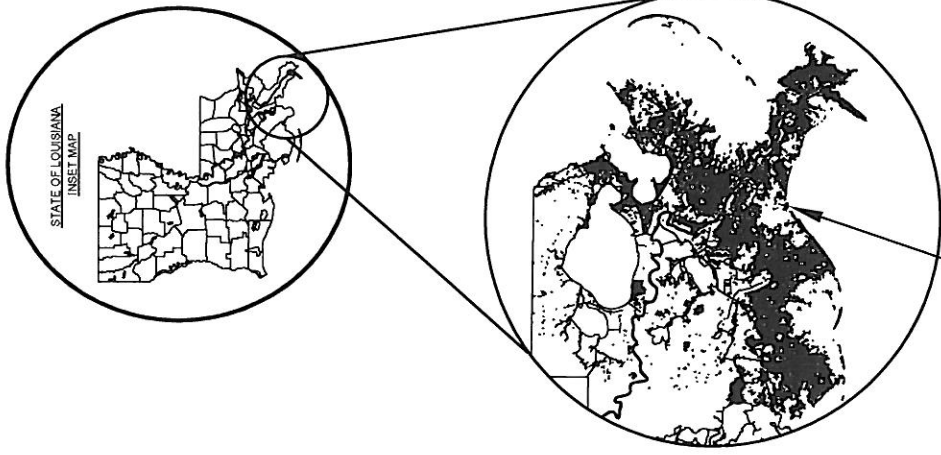
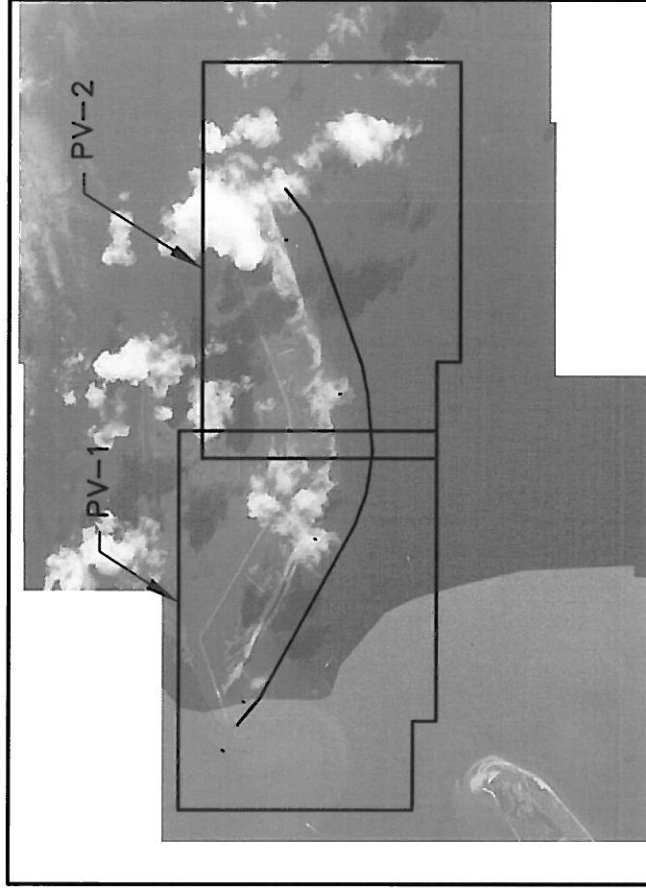
**STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH**

**SEGMENT W2  
EAST GRAND TERRE**

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SHEET NO.    DESCRIPTION

- 1    TITLE SHEET
- 2-3    PLAN VIEWS
- 4-5    PROFILES



PROJECT LOCATION

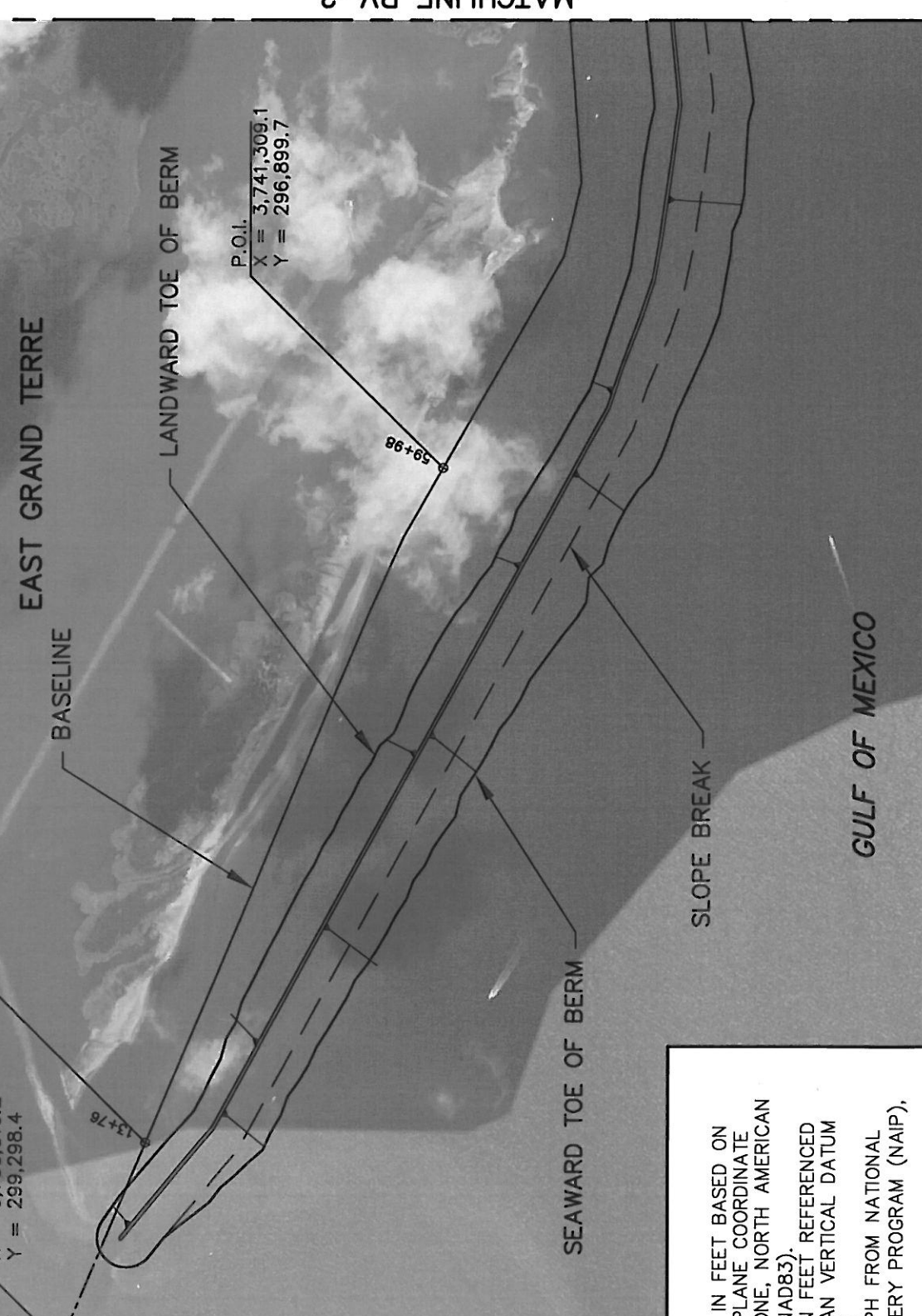
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W2 TITLE SHEET
DRAWN BY:	DESIGNED BY:	FEDERAL PROJECT NUMBER:	STATE PROJECT NUMBER:  DATE: 6/22/10  SHEET 1 OF 5

VOLUME = 1.48M CY  
 AREA = 203.4 ACRES  
 BERM LENGTH = 15340 FT.

P.O.C.  
 X = 3,735,815.2  
 Y = 299,298.4

P.O.I.  
 X = 3,737,083.3  
 Y = 298,764.7

P.O.I.  
 X = 3,741,309.1  
 Y = 296,899.7



MATCHLINE PV-2

- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

SEGMENT W2  
 PLAN VIEW

DATE: 6/19/10  
 SHEET 2 OF 5

DRAWN BY:

DESIGNED BY:

APPROVED BY:



VOLUME = 1.48M CY  
 AREA = 203.4 ACRES  
 BERM LENGTH = 15340 FT.

EAST GRANDE TERRE

P.O.I.  
 X = 3,749,082.9  
 Y = 297,673.1

BASELINE

LANDWARD TOE OF BERM

P.O.I.  
 X = 3,745,075.6  
 Y = 296,257.1

142+44

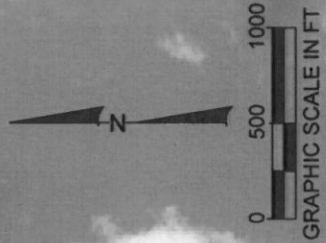
BERM CREST

99+94

SLOPE BREAK

SEAWARD TOE OF BERM

GULF OF MEXICO



MATCHLINE PV-1

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE

SEGMENT W2  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

APPROVED BY:

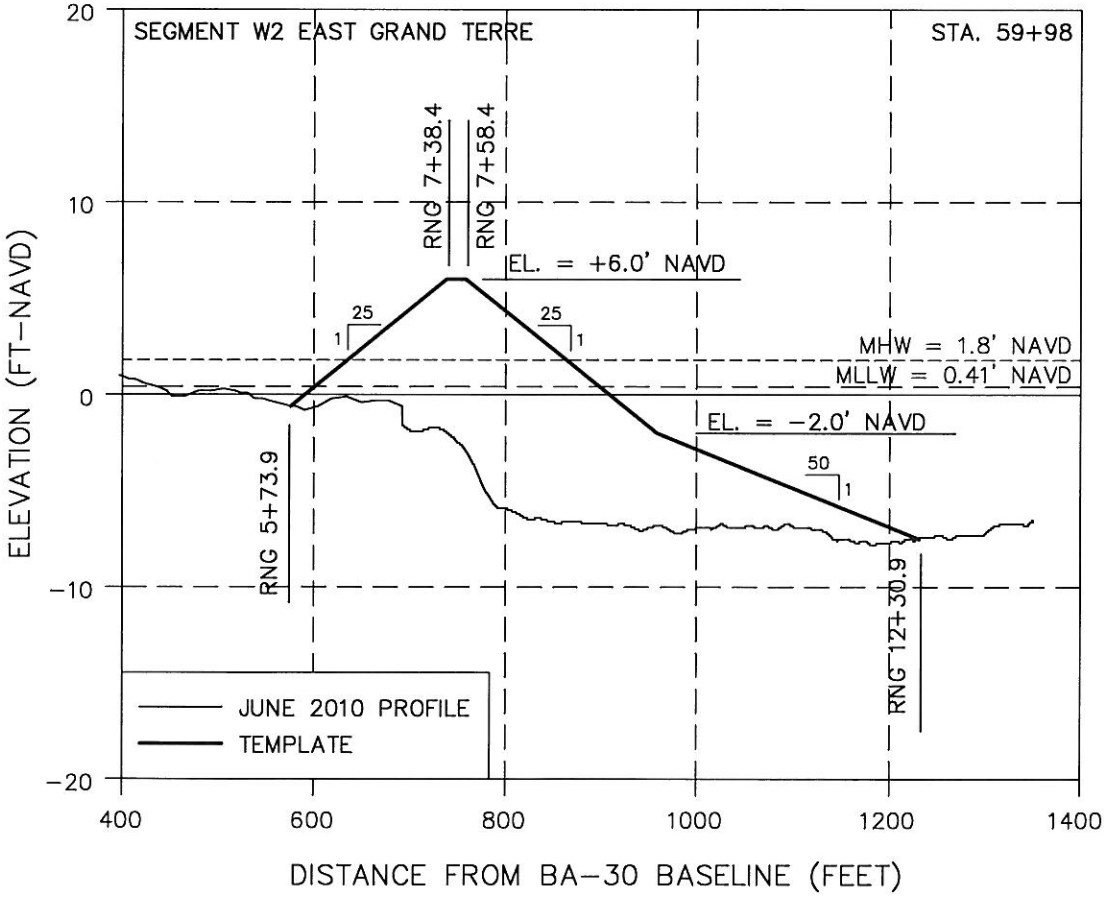
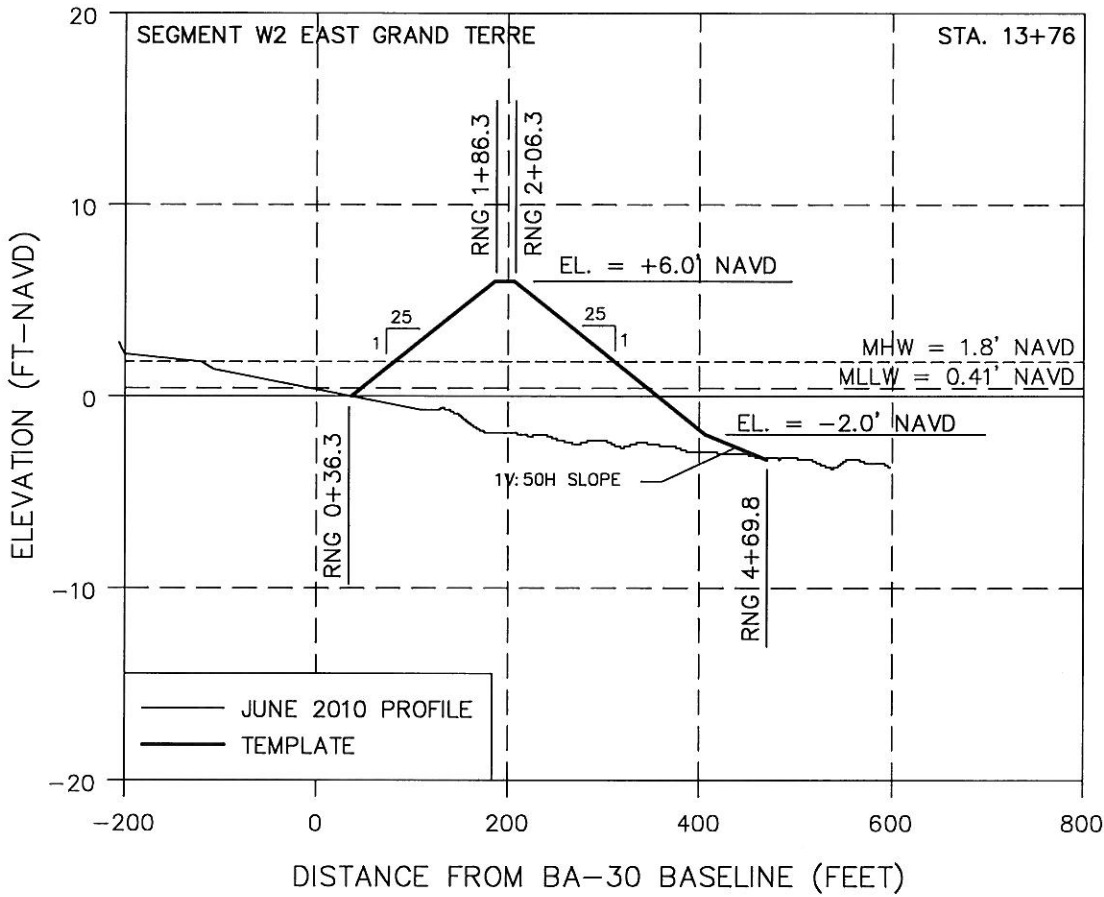
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DATE: 6/19/10

FEDERAL PROJECT NUMBER:

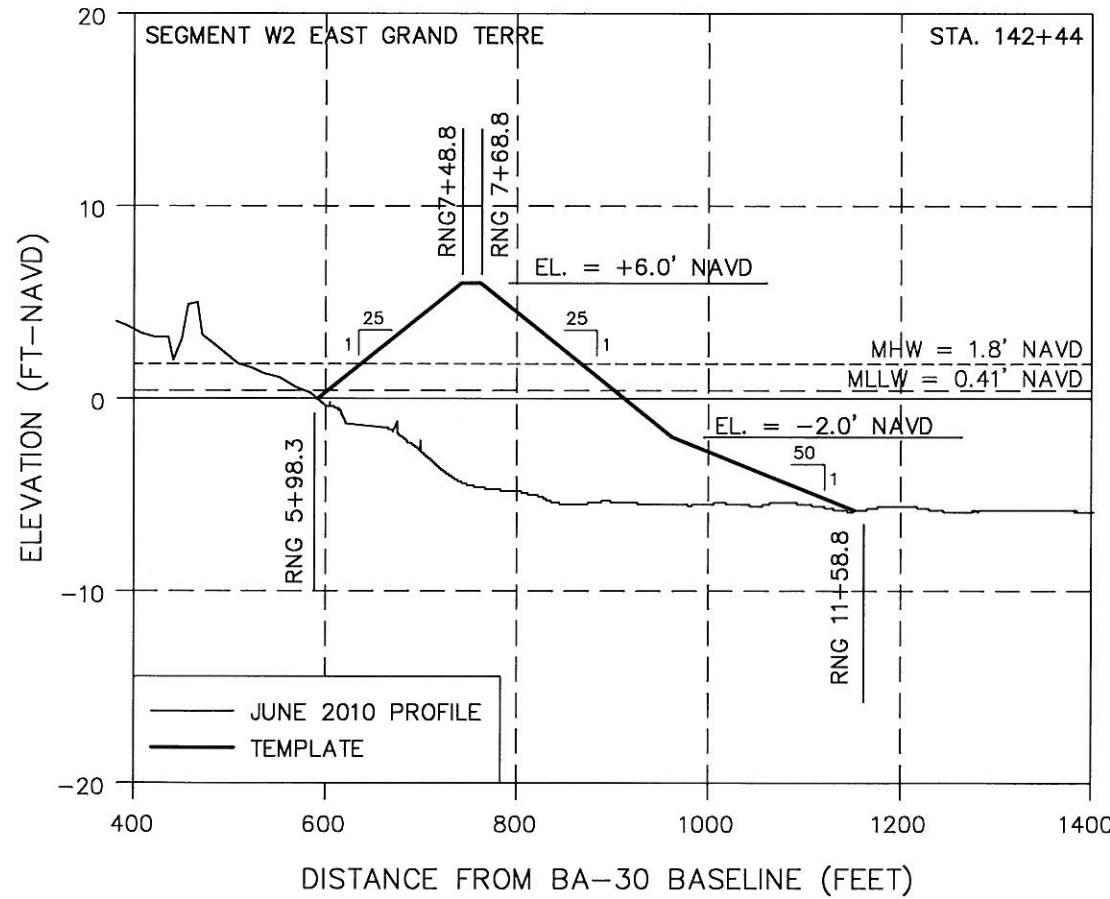
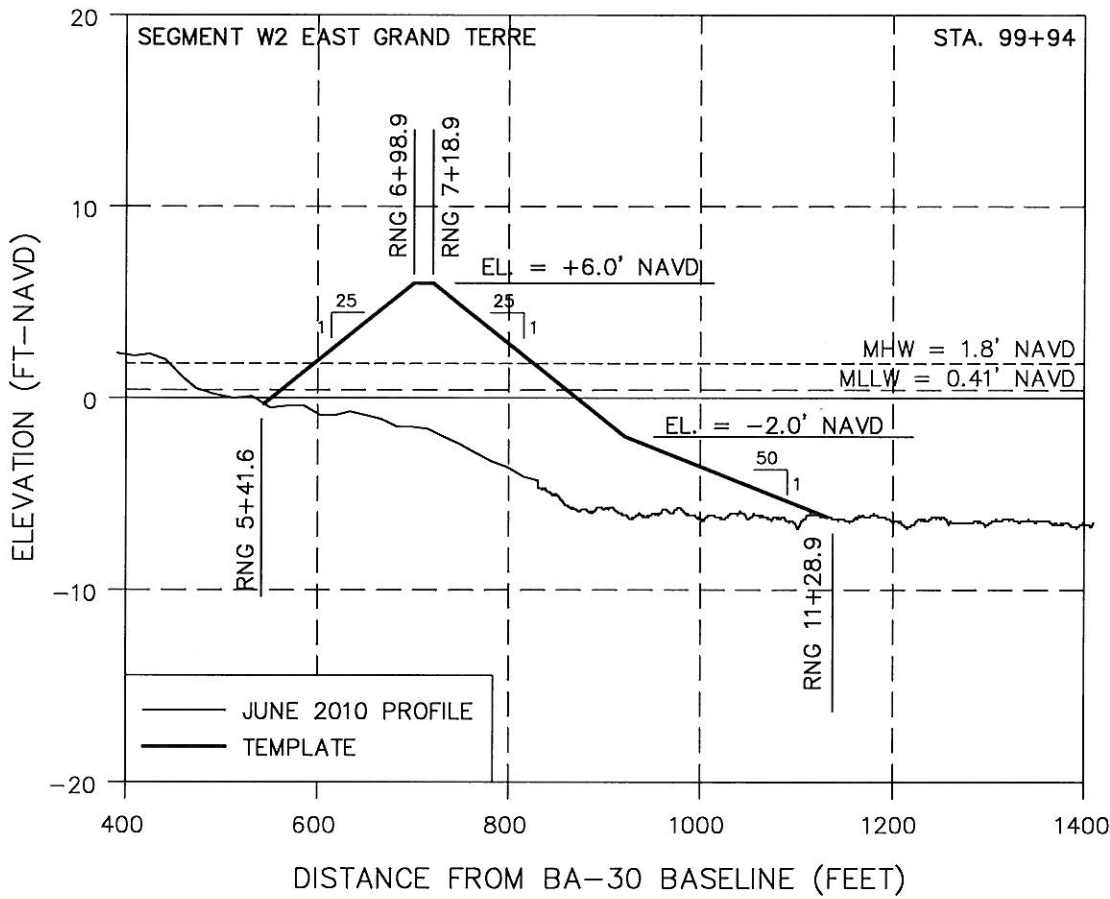
SHEET 3 OF 5

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SEGMENT W2 PROFILES	BARRIER ISLAND DEFENSE	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 6/19/2010	STATE PROJECT NUMBER:		DESIGNED BY:
SHEET 4 OF 5	FEDERAL PROJECT NUMBER:	APPROVED BY:	DRAWN BY:

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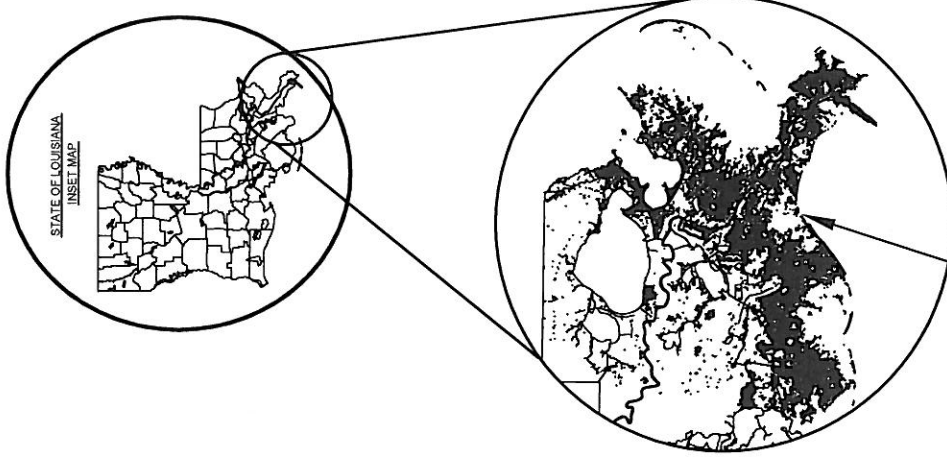
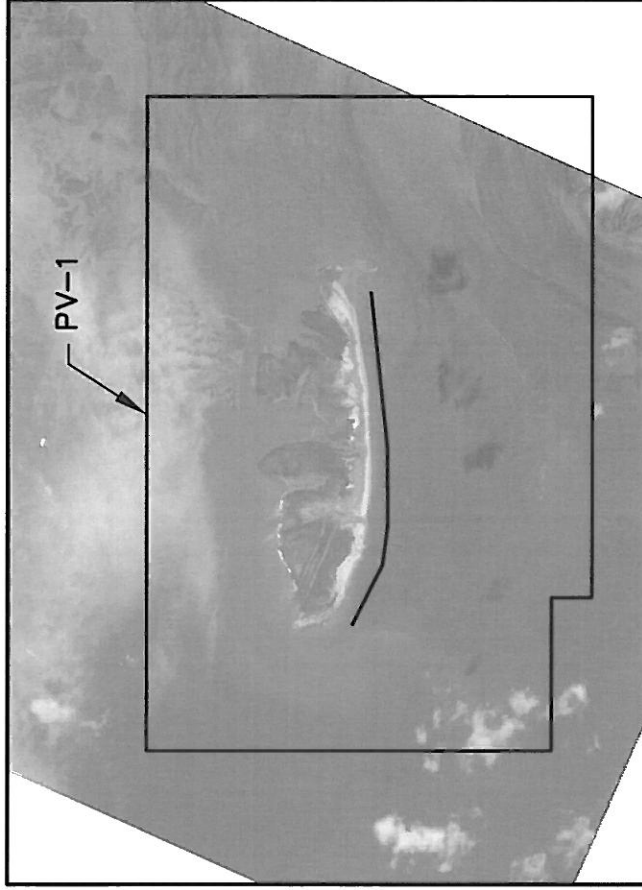
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W2 PROFILES
DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:	DATE: 6/19/10
DRAWN BY:	FEDERAL PROJECT NUMBER:	SHEET 5 OF 5	

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W3  
 GRAND PIERRE

INDEX TO SHEETS

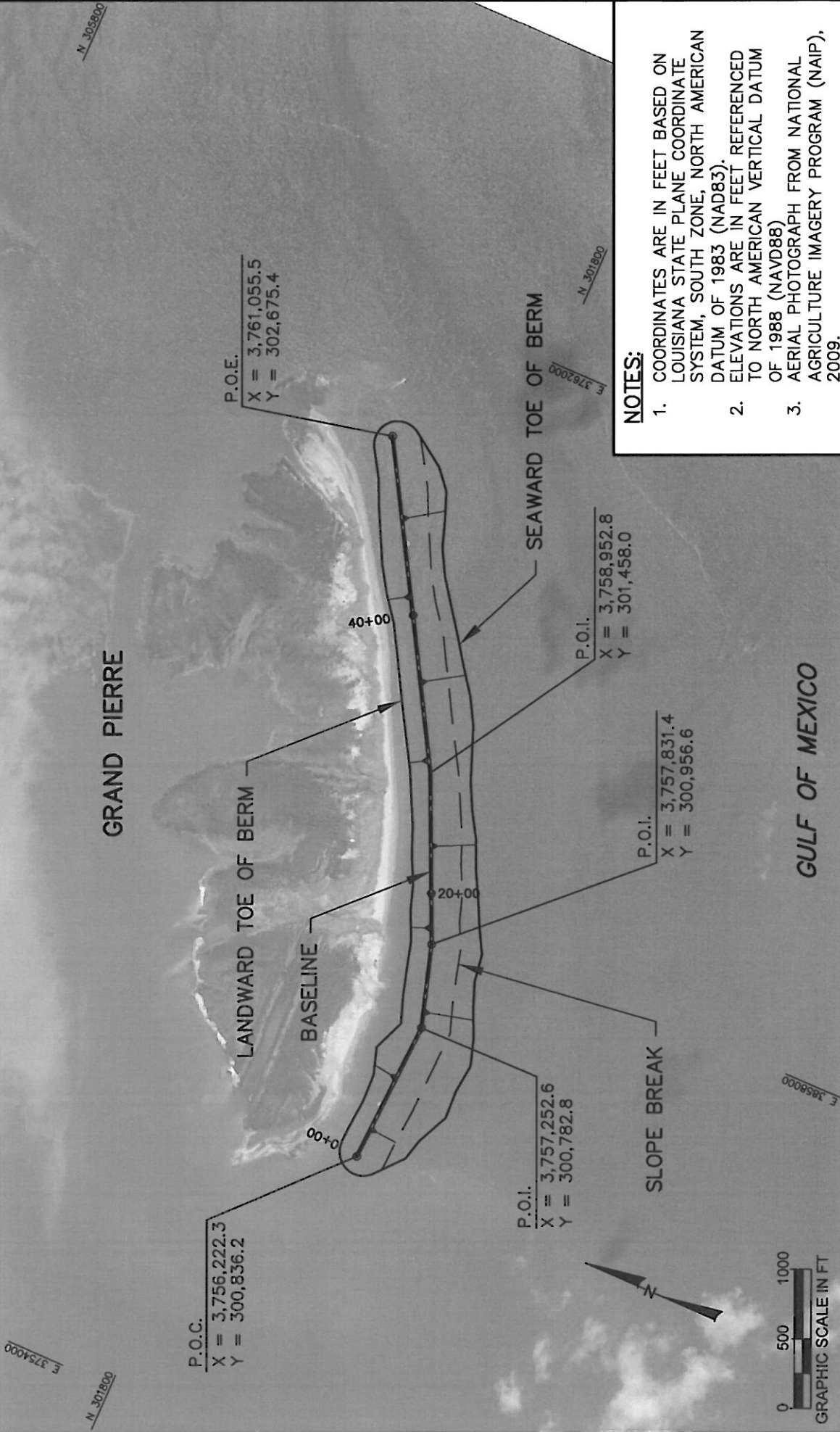
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN VIEW
3	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W3 TITLE SHEET
DRAWN BY:	DESIGNED BY:	FEDERAL PROJECT NUMBER:	STATE PROJECT NUMBER: DATE: 6/22/10 SHEET 1 OF 3

VOLUME = 433,000 CY  
 AREA = 59.5 ACRES  
 BERM LENGTH = 5,300 FT.

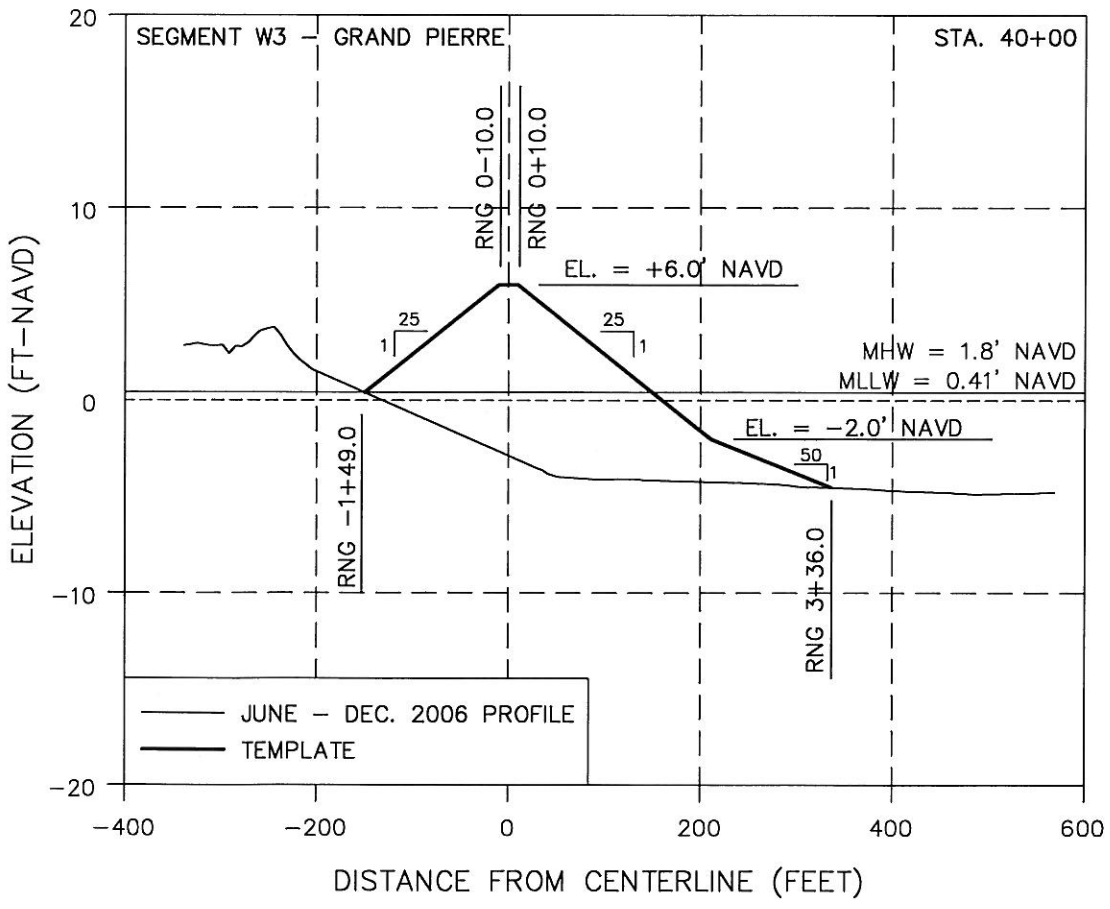
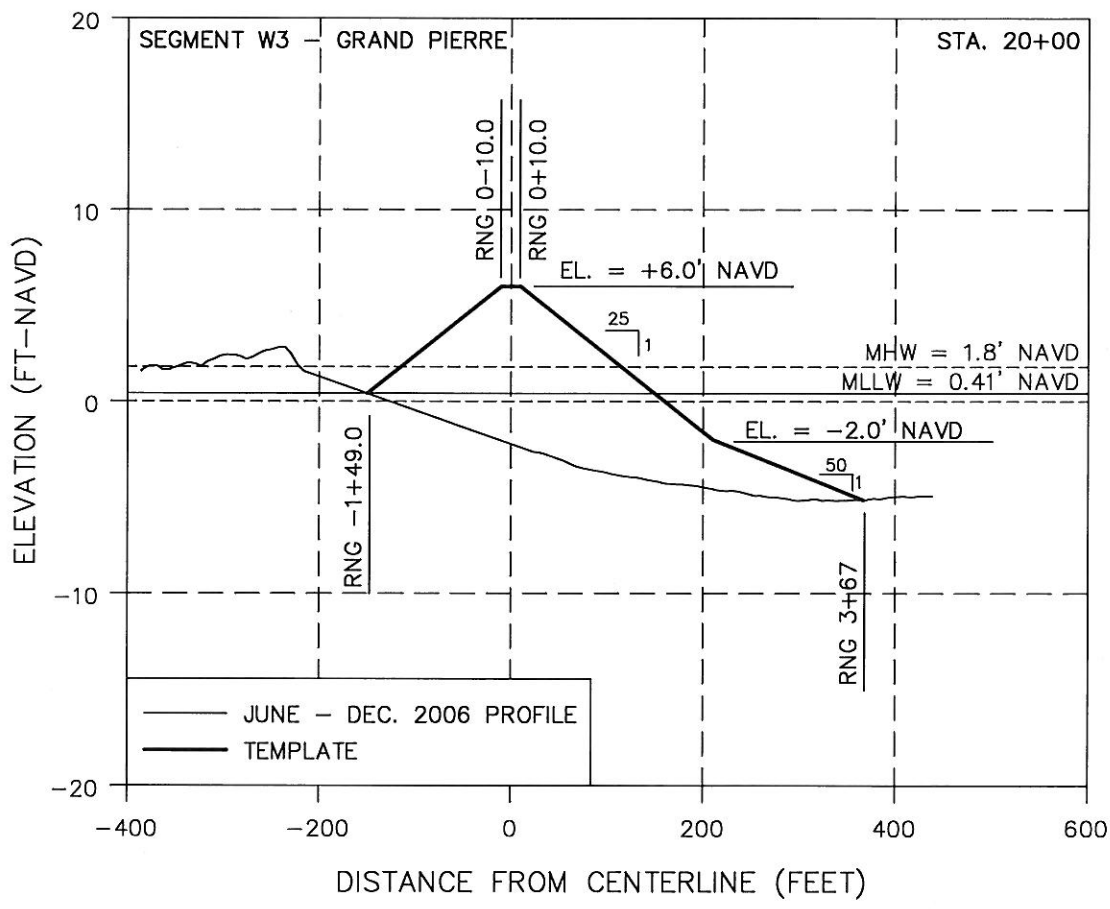


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 3

P:\Louisiana\00007 - Emergency Detention Facility\00007 - Grand Pierres\AS\DWG - June 2010 - STA 20+00 - 11000111.dwg



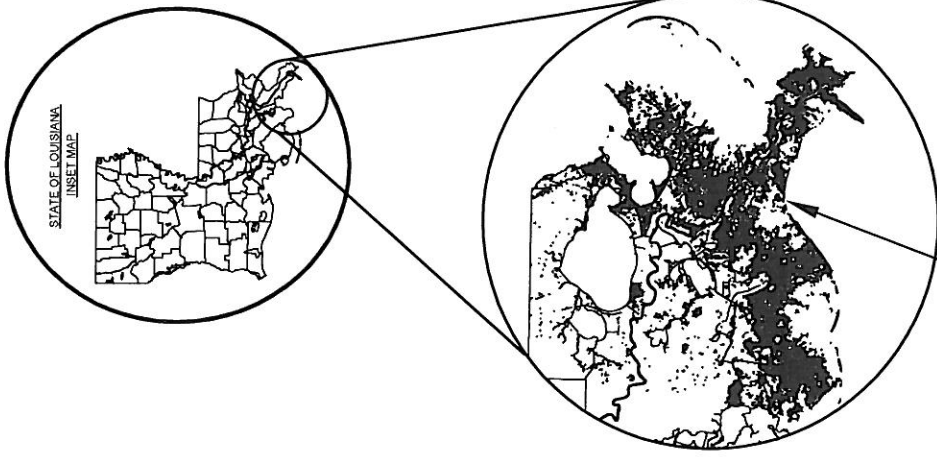
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BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: DRAWN BY:

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

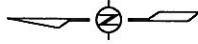
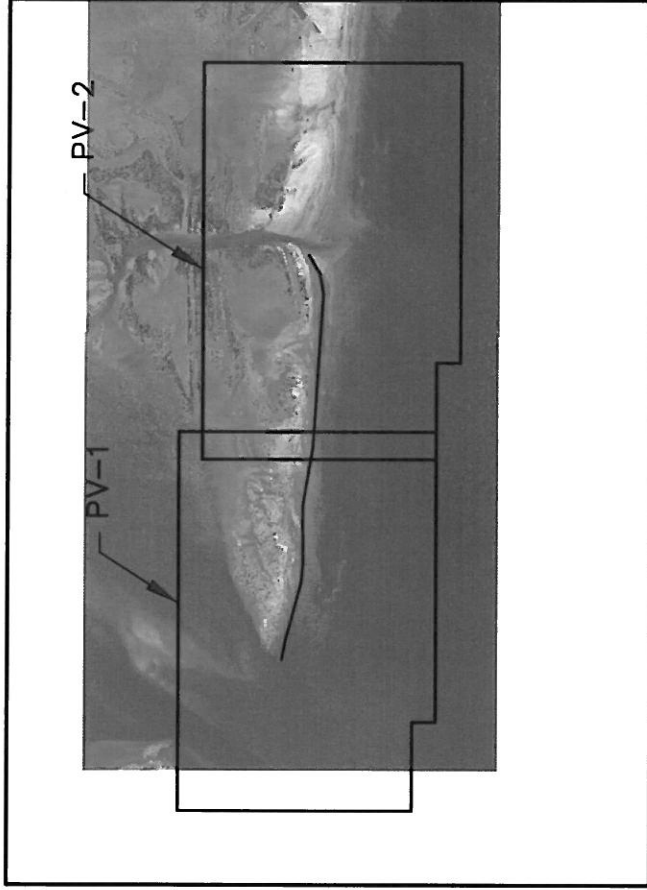
SEGMENT W4  
 CHENIER RONQUILLE

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SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4	PROFILES



PROJECT LOCATION



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W4 TITLE SHEET
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/22/10 SHEET 1 OF 4

VOLUME = 232,000 CY  
 AREA = 139.1 ACRES  
 BERM LENGTH = 10,715 FT.

N 302000

PPL-19 BASELINE

P.O.I.  
 X = 3,764,007.8  
 Y = 300,188.4

P.O.I.  
 X = 3,769,007.8  
 Y = 300,188.4

LANDWARD TOE OF BERM

70+00

20+00

90+00

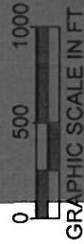
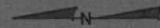
P.O.B.  
 X = 3,762,007.8  
 Y = 300,188.4

SEAWARD TOE OF BERM

SLOPE BREAK

N 298000

GULF OF MEXICO



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W4  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

APPROVED BY:

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

DATE: 6/19/10

SHEET 2 OF 4

**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

MATCHLINE PV-2

E 3766000

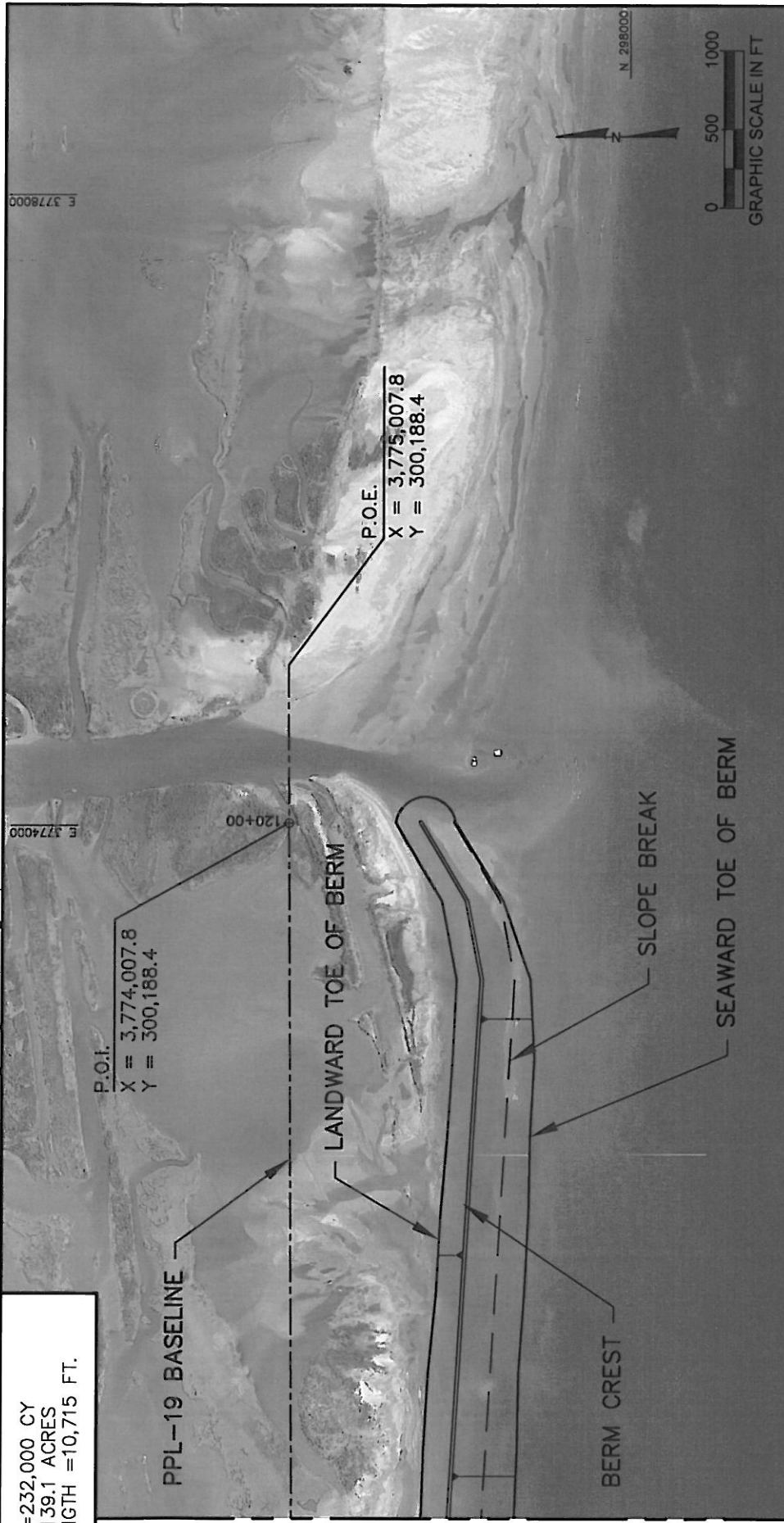
E 3769000

N 298000

E 3762000



VOLUME = 232,000 CY  
 AREA = 139.1 ACRES  
 BERM LENGTH = 10,715 FT.



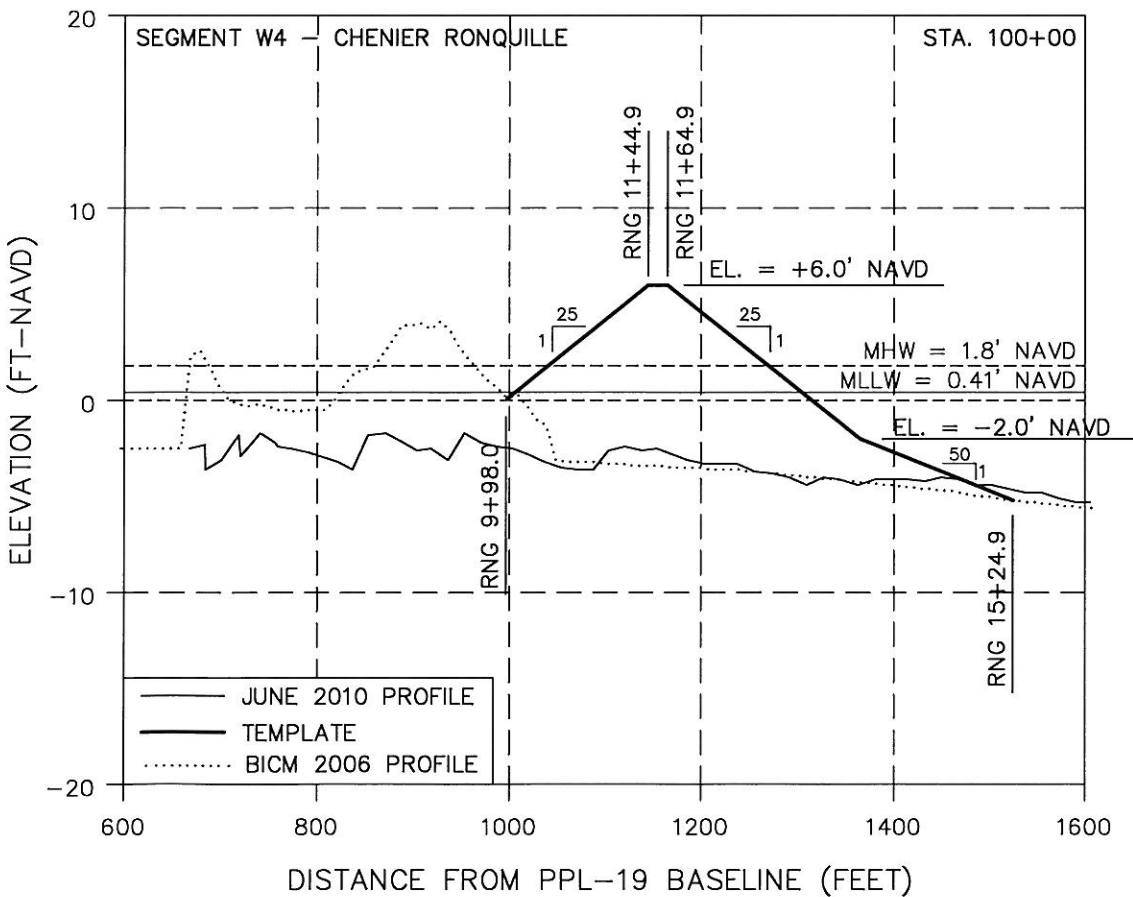
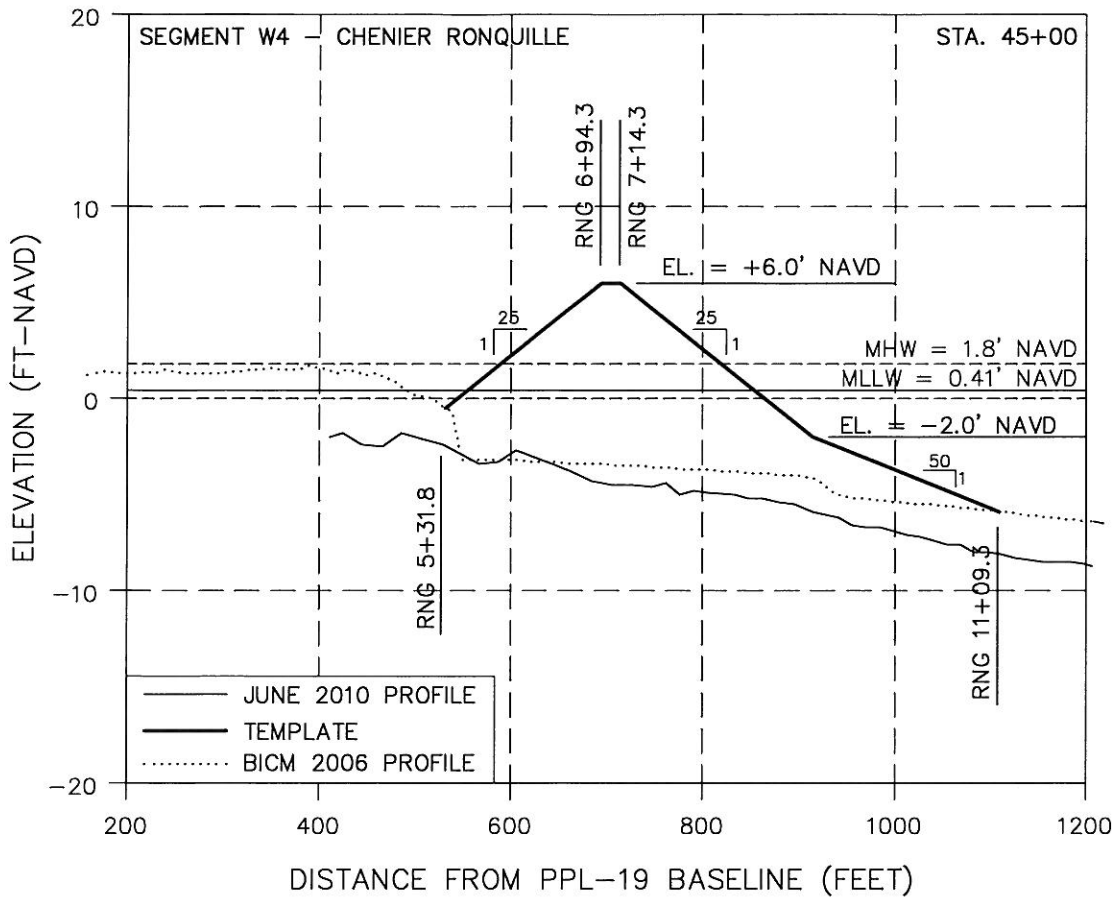
MATCHLINE PV-1

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W4 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 4

P:\Louisiana\790037 Emergency Berm Permitting\CAD\PERMIT\SIW4 - Chenier Ronquille\W4\_XS.dwg - Jun 27, 2010 @ 9:23pm - abelden



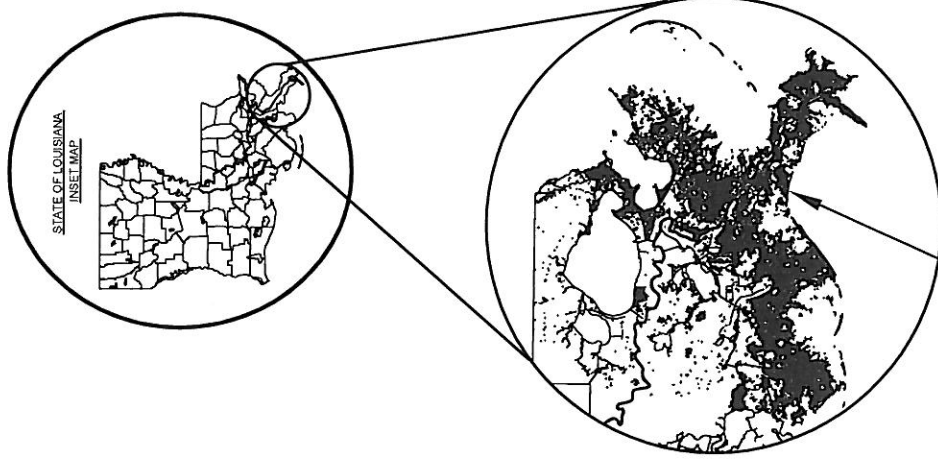
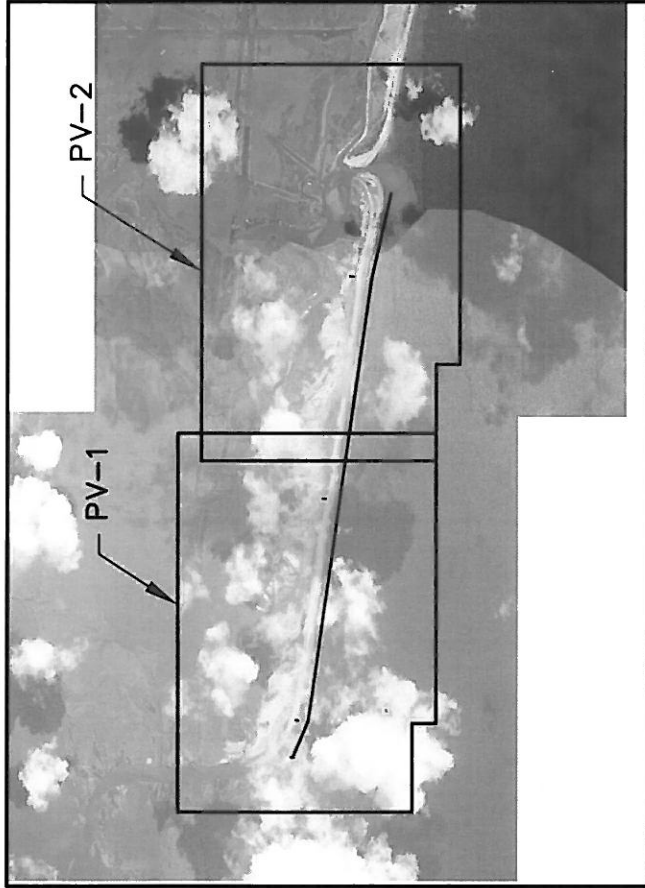
<p>SEGMENT W4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/2010</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 4 OF 4</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>

**STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH**

**SEGMENT W5  
CHALAND HEADLAND**

**INDEX TO SHEETS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4-5	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W5 TITLE SHEET
			DATE: 6/22/10 SHEET 1 OF 5
DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
DRAWN BY:	DATE:	SHEET 1 OF 5	SHEET 1 OF 5

VOLUME = 819,000 CY  
 AREA = 150.8 ACRES  
 BERM LENGTH = 11,618 FT.

CHALAND HEADLAND

LANDWARD TOE OF BERM

BASELINE BA-38-2

SLOPE BREAK

SEAWARD TOE OF BERM

GULF OF MEXICO

P.O.C.  
 BASELINE BA-38-2  
 STA. 5+00  
 X = 3,774,831.3  
 Y = 299,096.3



GRAPHIC SCALE IN FT

MATCHLINE PV-2

NOTES:

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W5  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

APPROVED BY:

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

DATE: 6/19/10

SHEET 2 OF 5

VOLUME = 819,000 CY  
 AREA = 150.8 ACRES  
 BERM LENGTH = 11,618 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

P.O.E.  
 X = 3,789,567  
 Y = 297,283.3

CHALAND HEADLAND

LANDWARD TOE OF BERM

BASELINE BA-38-2

130+84

BERM CREST

SLOPE BREAK

SEAWARD TOE OF BERM

GULF OF MEXICO

MATCHLINE PV-1

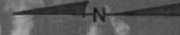
N. 3000000

E. 3786000

E. 3790000

N. 2500000

E. 3790000



APPLICATION BY:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W5  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

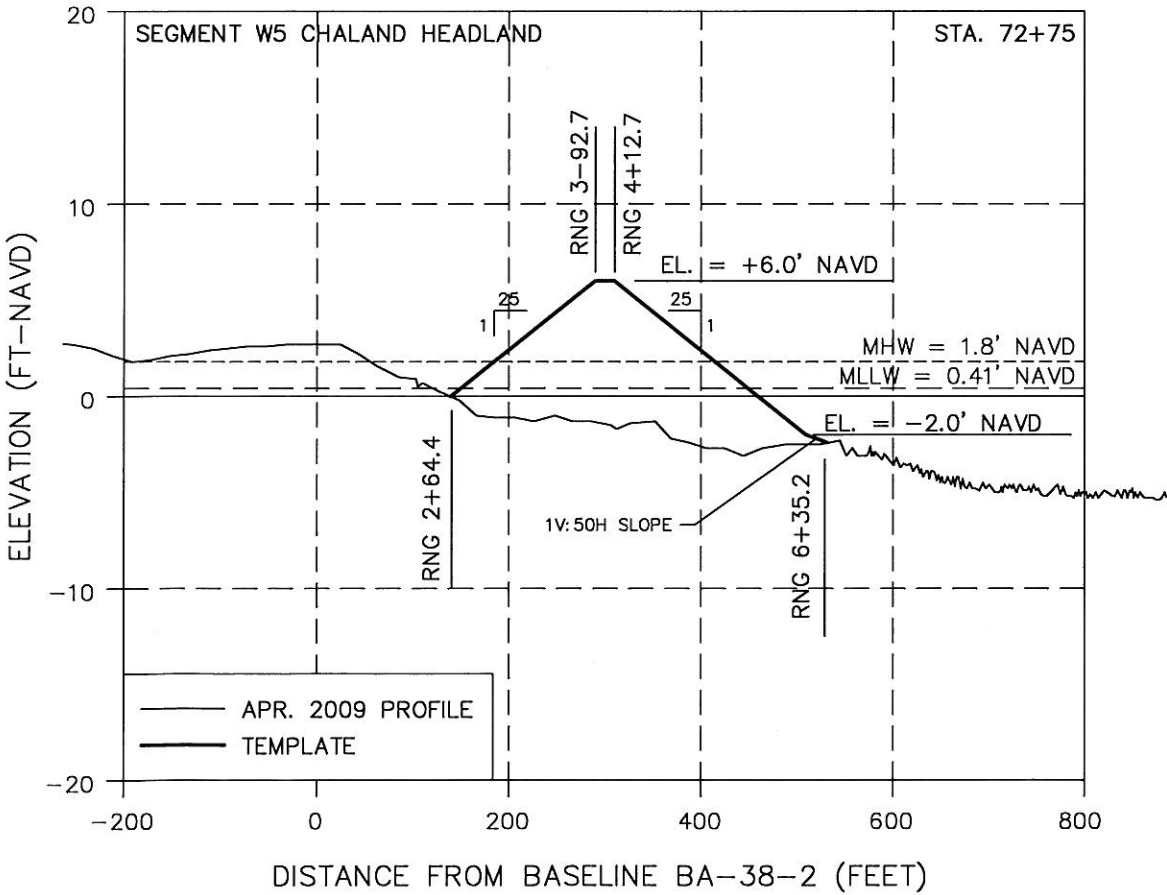
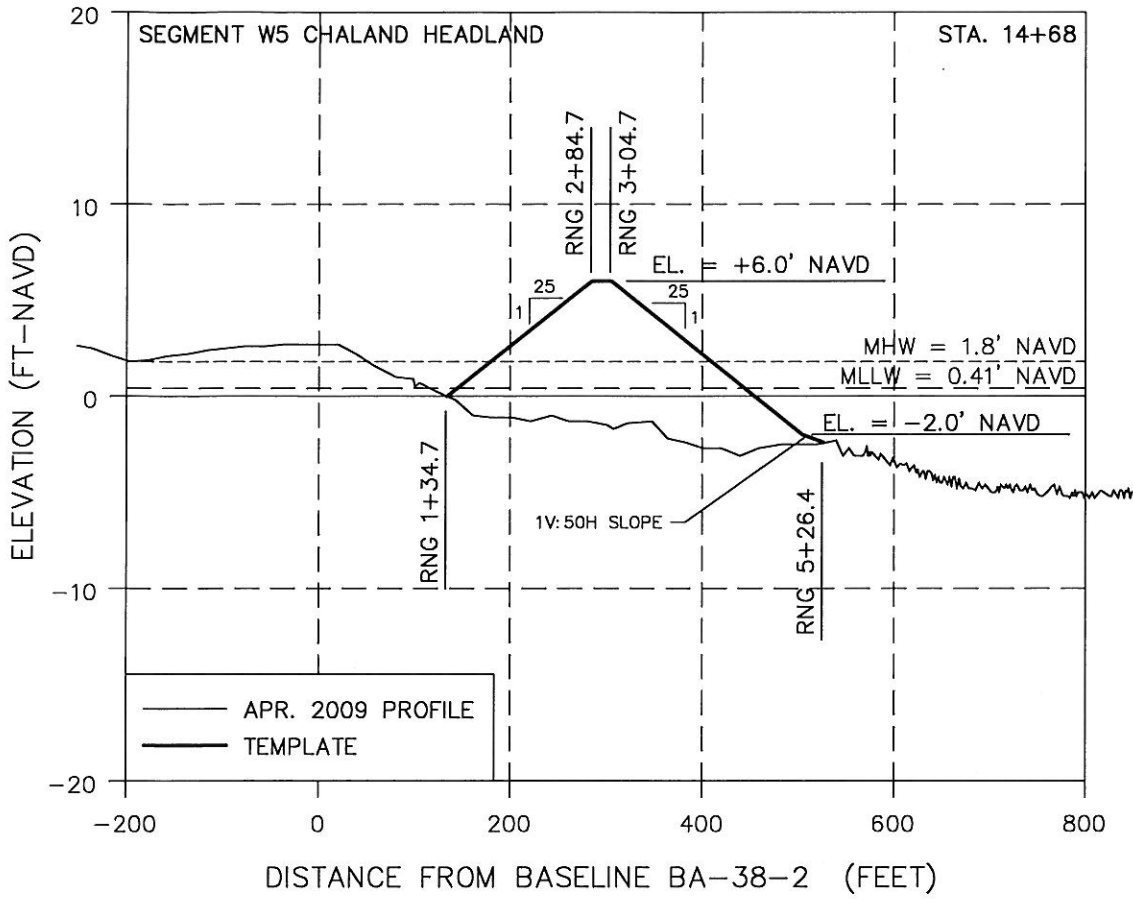
APPROVED BY:

STATE PROJECT NUMBER:

DATE: 6/19/10

FEDERAL PROJECT NUMBER:

SHEET 3 OF 5



SEGMENT W5  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/2010

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

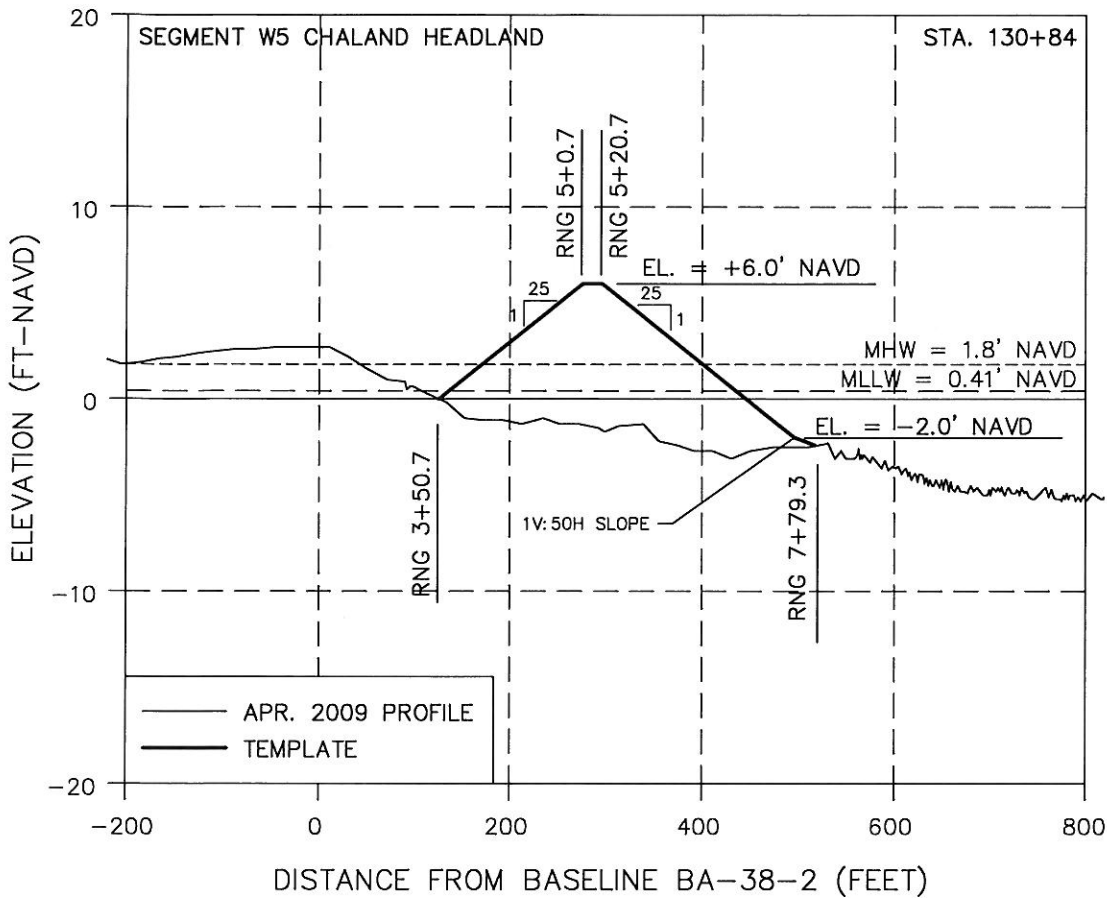
SHEET 4 OF 5

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W5  
PROFILES

BARRIER ISLAND  
DEFENSE

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

SHEET 5 OF 5

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

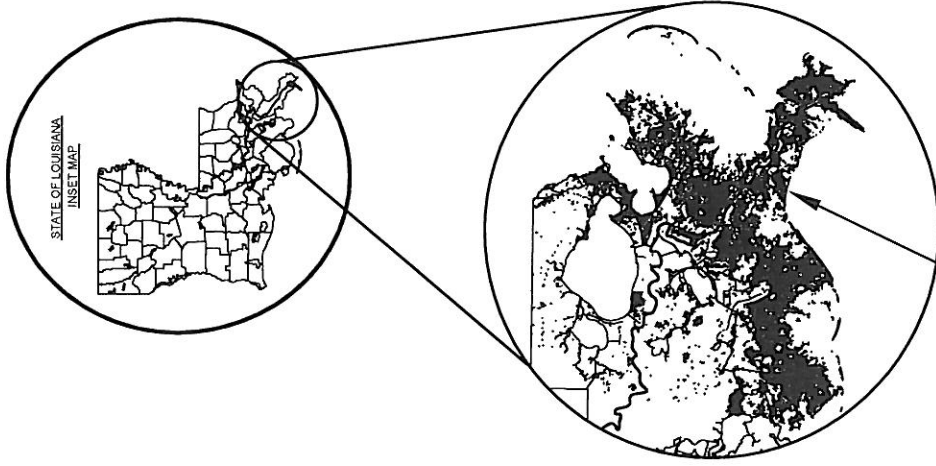
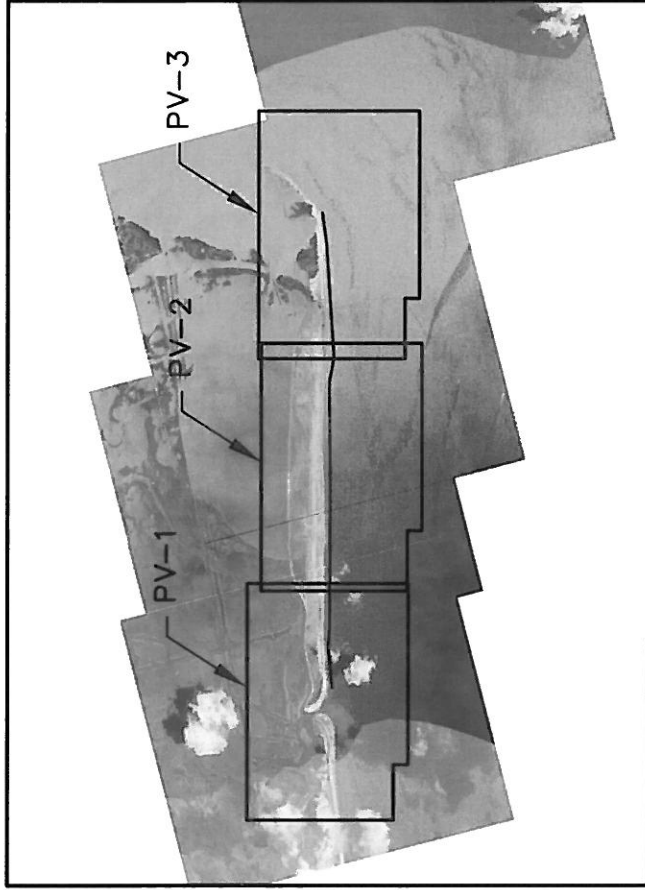
DRAWN BY:

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W6 & W7  
 PASS CHALAND TO COUPE BOB

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	PLAN VIEWS
5-6	PROFILES



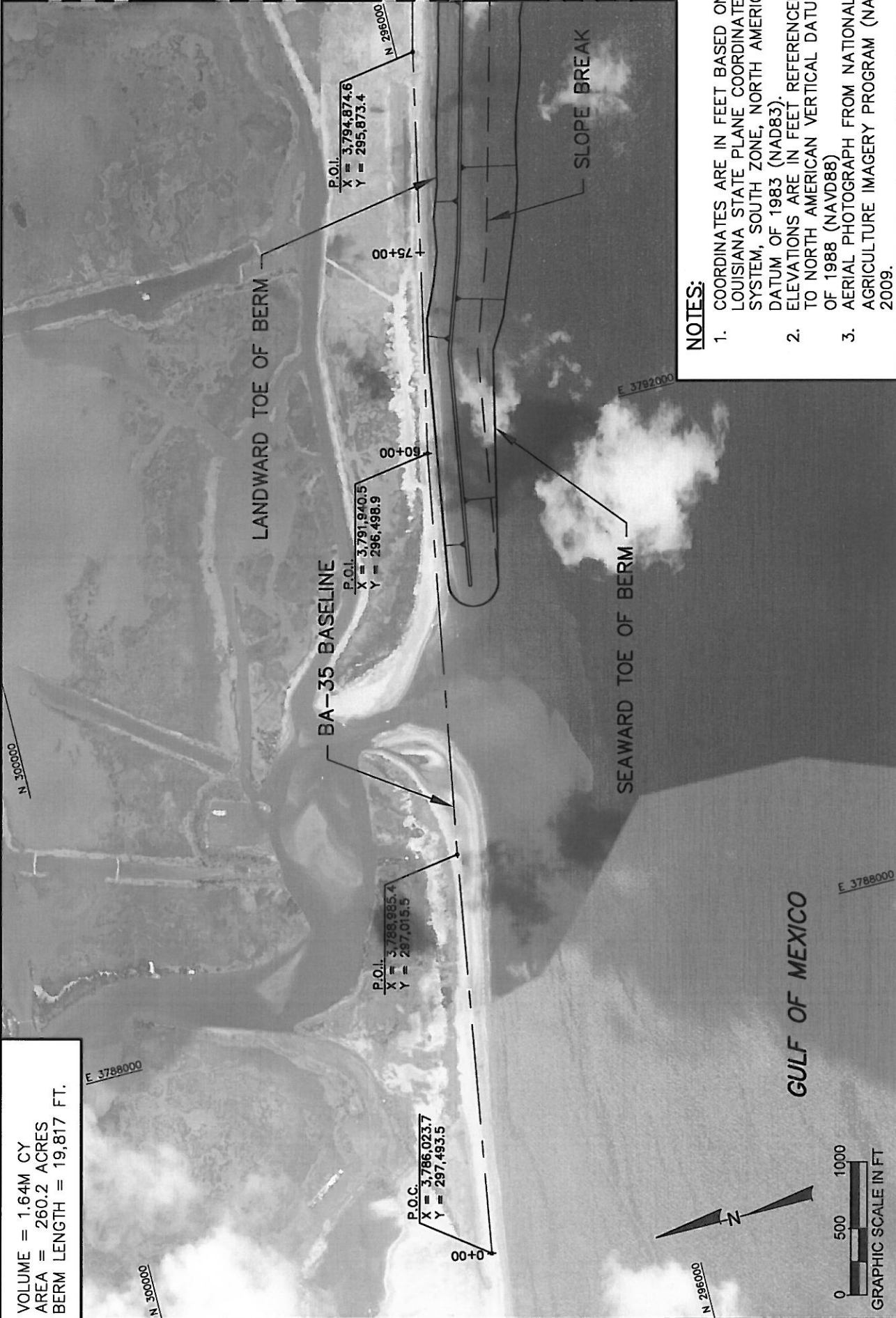
PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W6 & W7 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/22/10 SHEET 1 OF 6



VOLUME = 1.64M CY  
 AREA = 260.2 ACRES  
 BERM LENGTH = 19,817 FT.

MATCHLINE PV-2

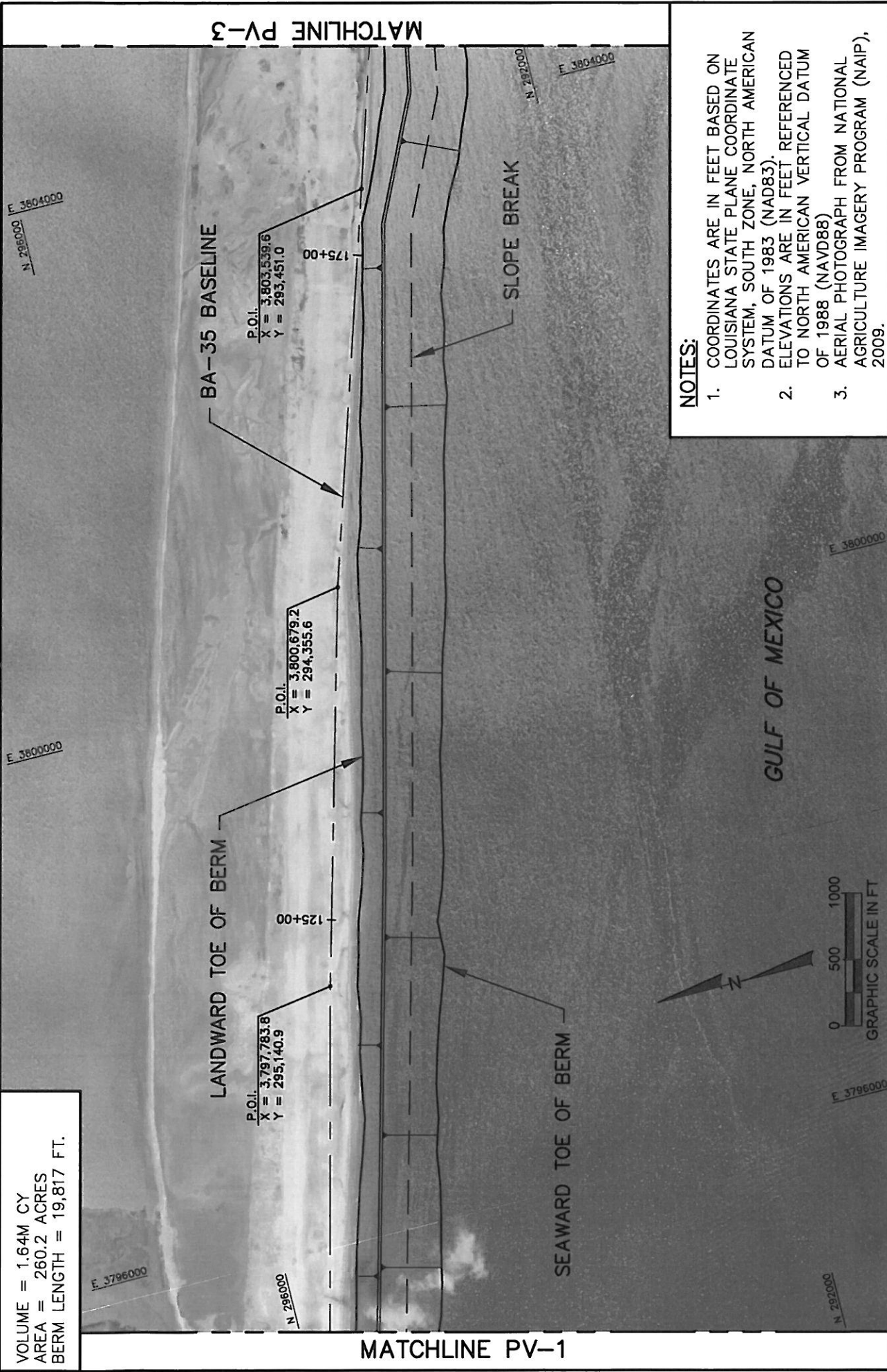


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
2. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY:                  OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>
<p>BARRIER ISLAND DEFENSE</p>	<p>DESIGNED BY:</p>	<p>APPROVED BY:</p>
<p>SEGMENT W6 &amp; W7                  PLAN VIEW</p>	<p>DATE: 6/19/10</p>	<p>SHEET 2 OF 6</p>
<p>STATE PROJECT NUMBER:</p>		<p>FEDERAL PROJECT NUMBER:</p>

VOLUME = 1.64M CY  
 AREA = 260.2 ACRES  
 BERM LENGTH = 19,817 FT.

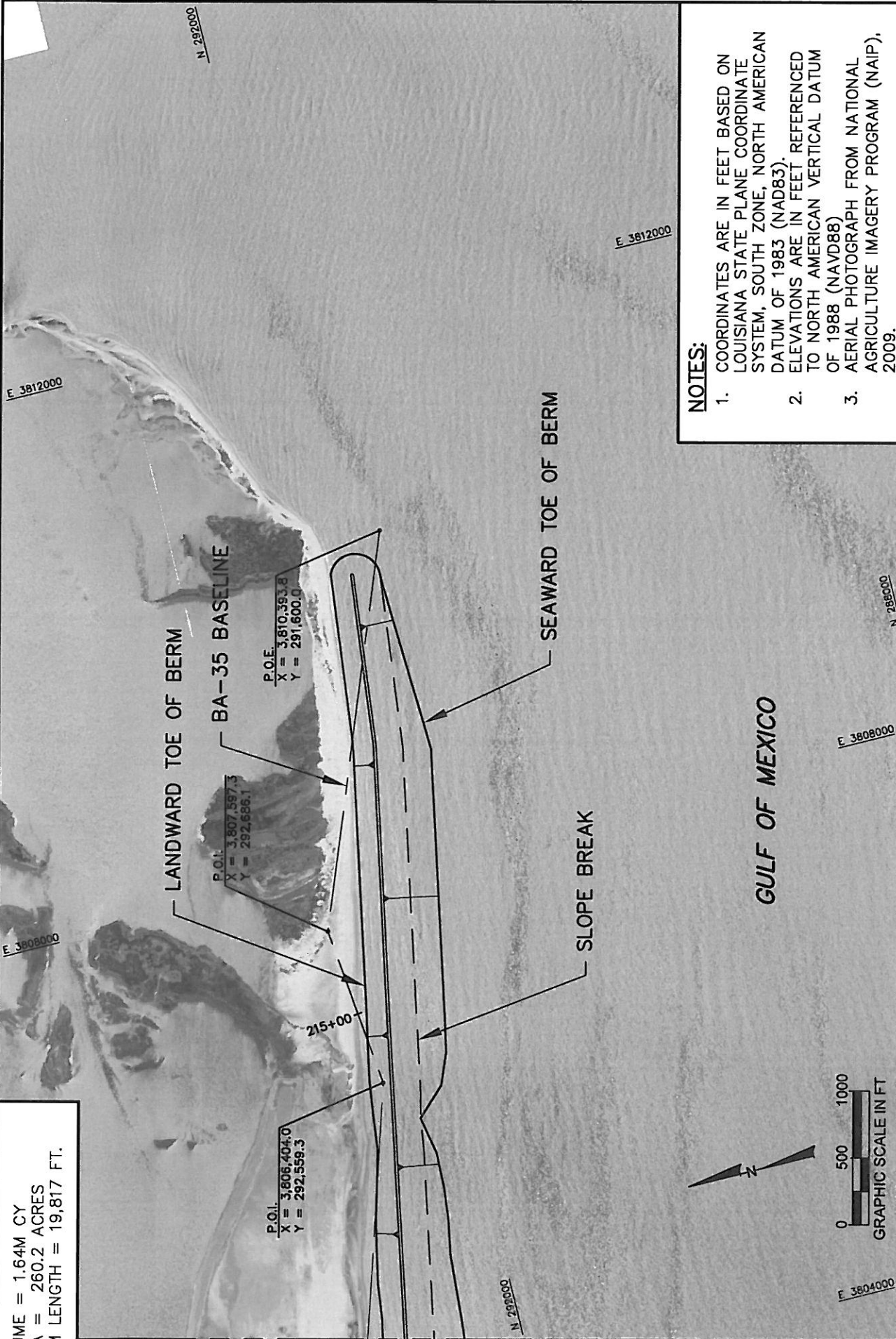


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W6 & W7 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 6

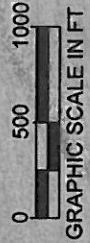
VOLUME = 1.64M CY  
 AREA = 260.2 ACRES  
 BERM LENGTH = 19,817 FT.



MATCHLINE PV-2

**NOTES:**

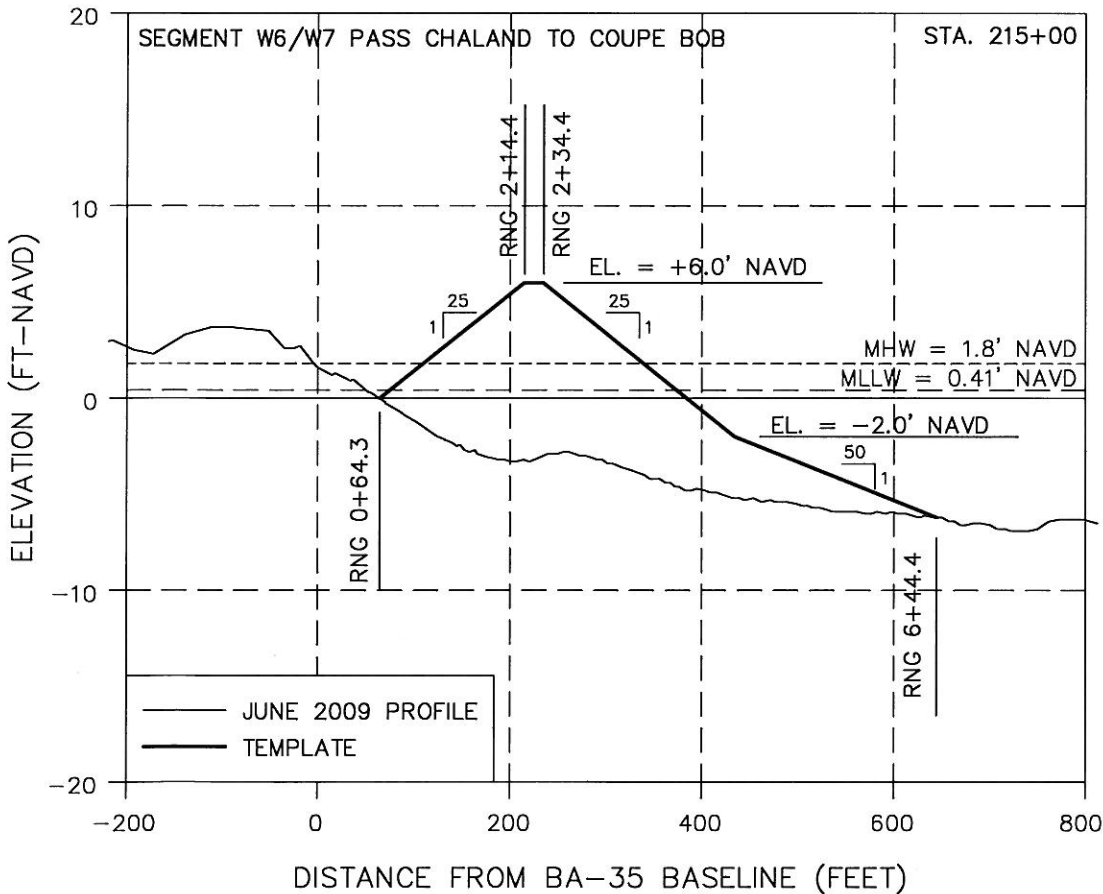
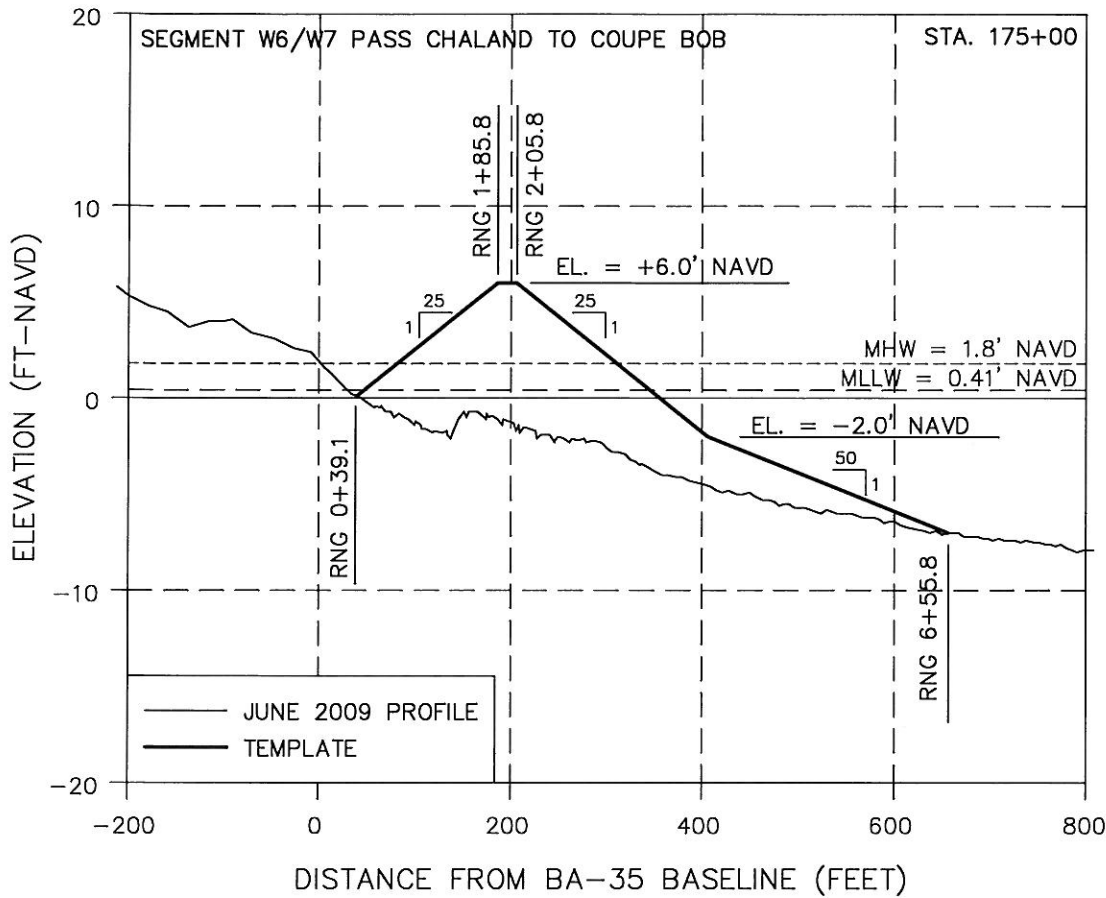
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
2. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	APPROVED BY:	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W6 & W7 PLAN VIEW
DRAWN BY:	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	DATE: 6/19/10	SHEET 4 OF 6	DATE: 6/19/10 SHEET 4 OF 6



F:\Louisiana\2009\Emergency\Barr\Profile\W6\W7 - Pass Chaland to Coupe Bob\W6\W7 - Pass Chaland to Coupe Bob.dwg - Jun 10, 2010 10:12:11 AM - 11/11/10



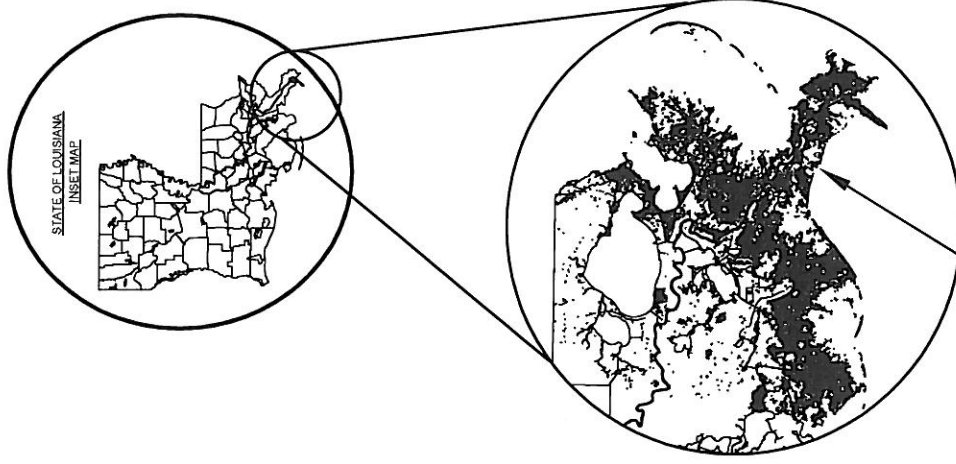
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>SEGMENT W6 &amp; W7 PROFILES</b>	<b>BARRIER ISLAND DEFENSE</b>	DATE: 6/19/10 SHEET 6 OF 6
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:		
DRAWN BY:	DESIGNED BY:		
APPROVED BY:			

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

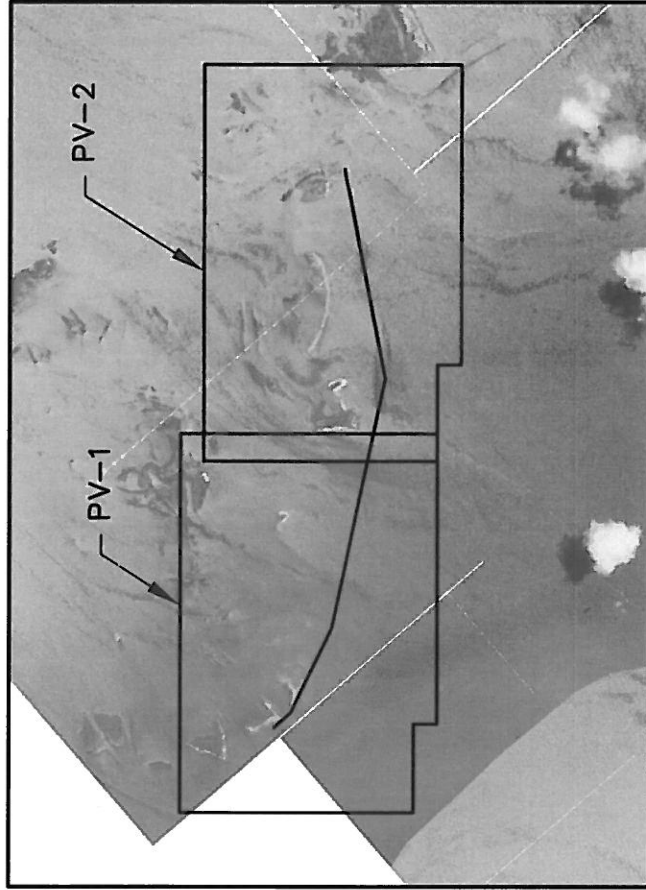
SEGMENT W8  
 SHELL ISLAND

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4	PROFILES



PROJECT LOCATION



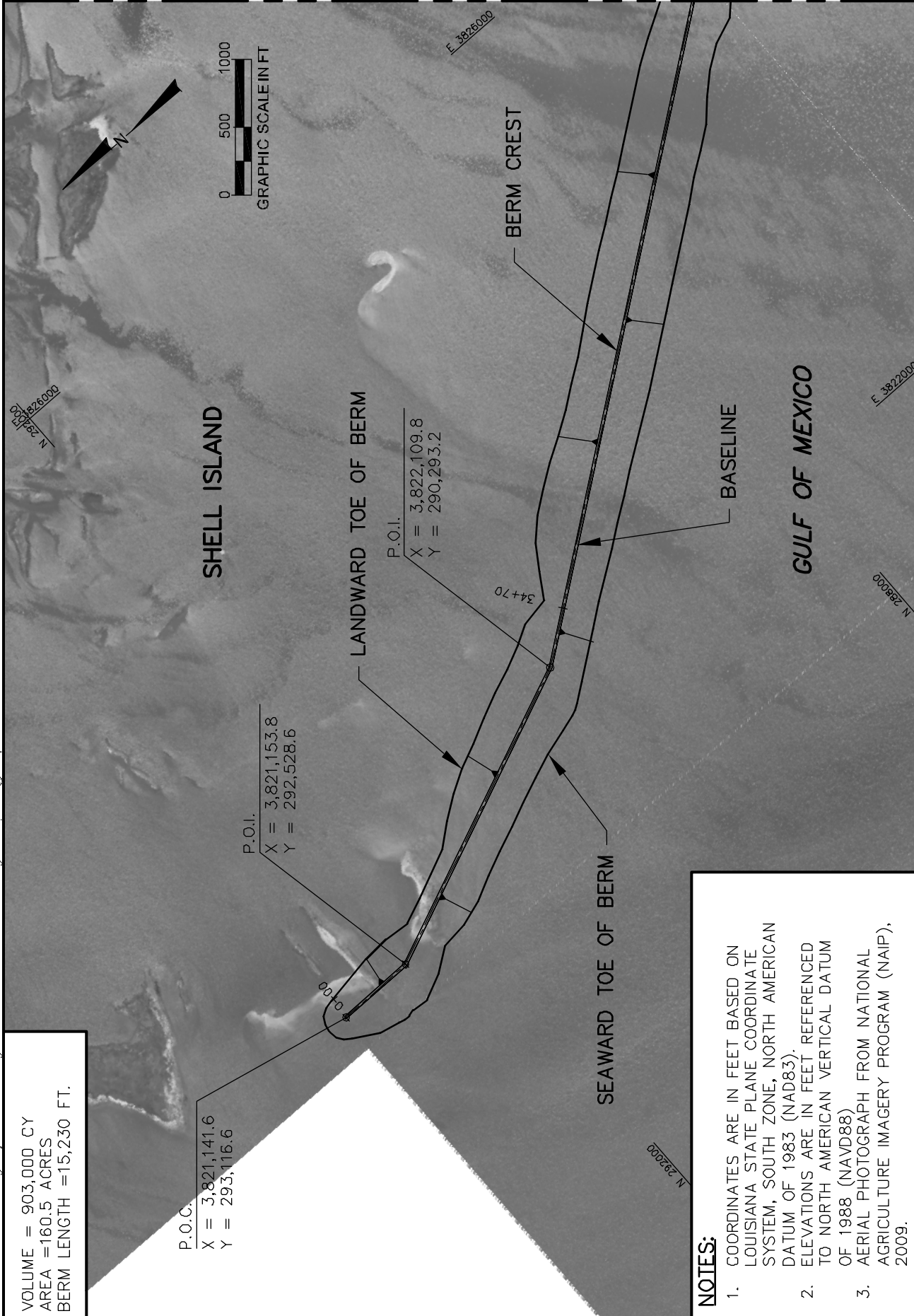
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W8 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/22/10 SHEET 1 OF 4
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	

VOLUME = 903,000 CY  
 AREA = 160.5 ACRES  
 BERM LENGTH = 15,230 FT.

P.O.C.  
 X = 3,821,141.6  
 Y = 293,116.6

P.O.I.  
 X = 3,821,153.8  
 Y = 292,528.6

P.O.I.  
 X = 3,822,109.8  
 Y = 290,293.2



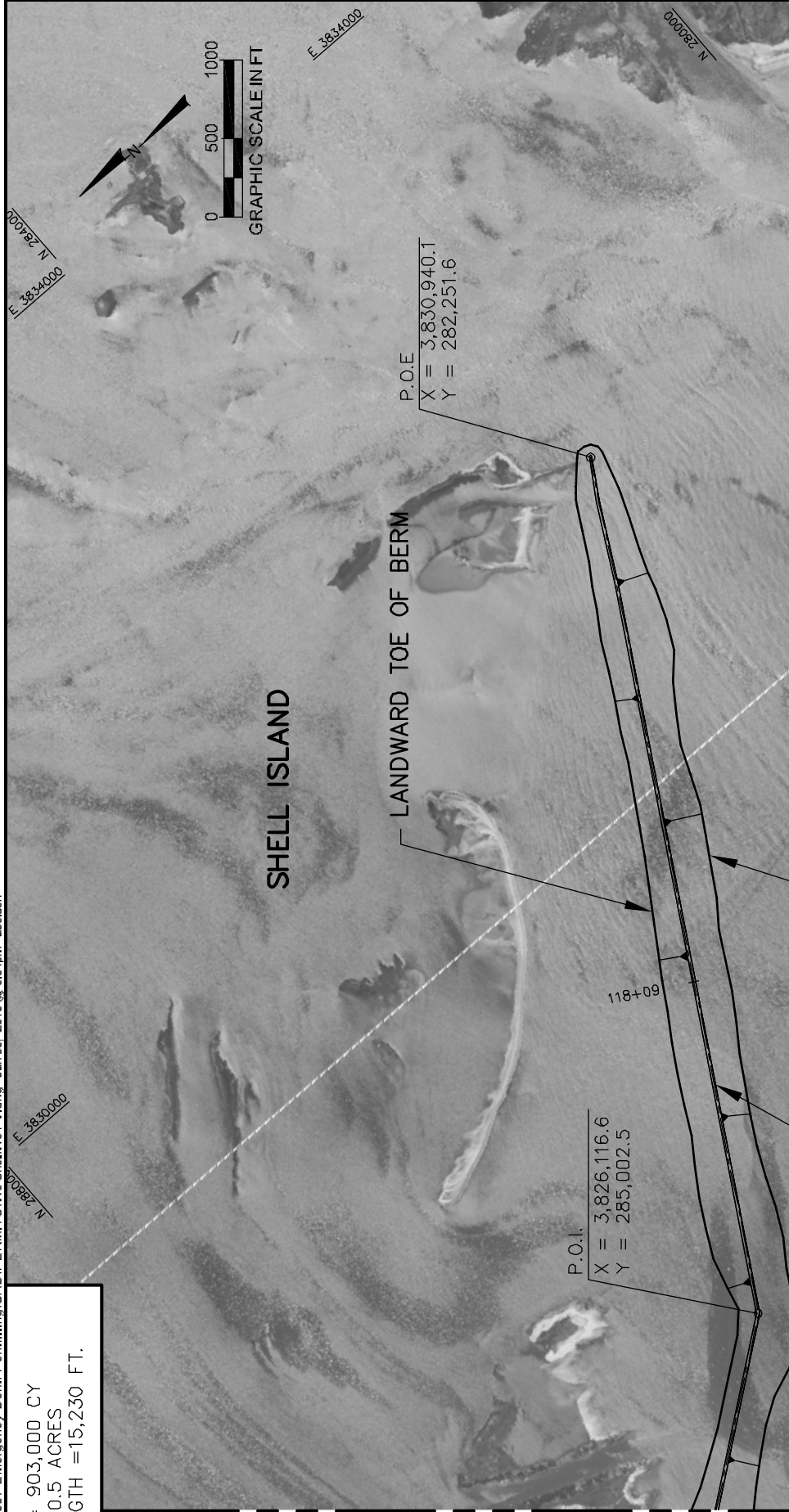
MATCHLINE PV-2

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W8 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 4

VOLUME = 903,000 CY  
 AREA = 160.5 ACRES  
 BERM LENGTH = 15,230 FT.



MATCHLINE PV-1

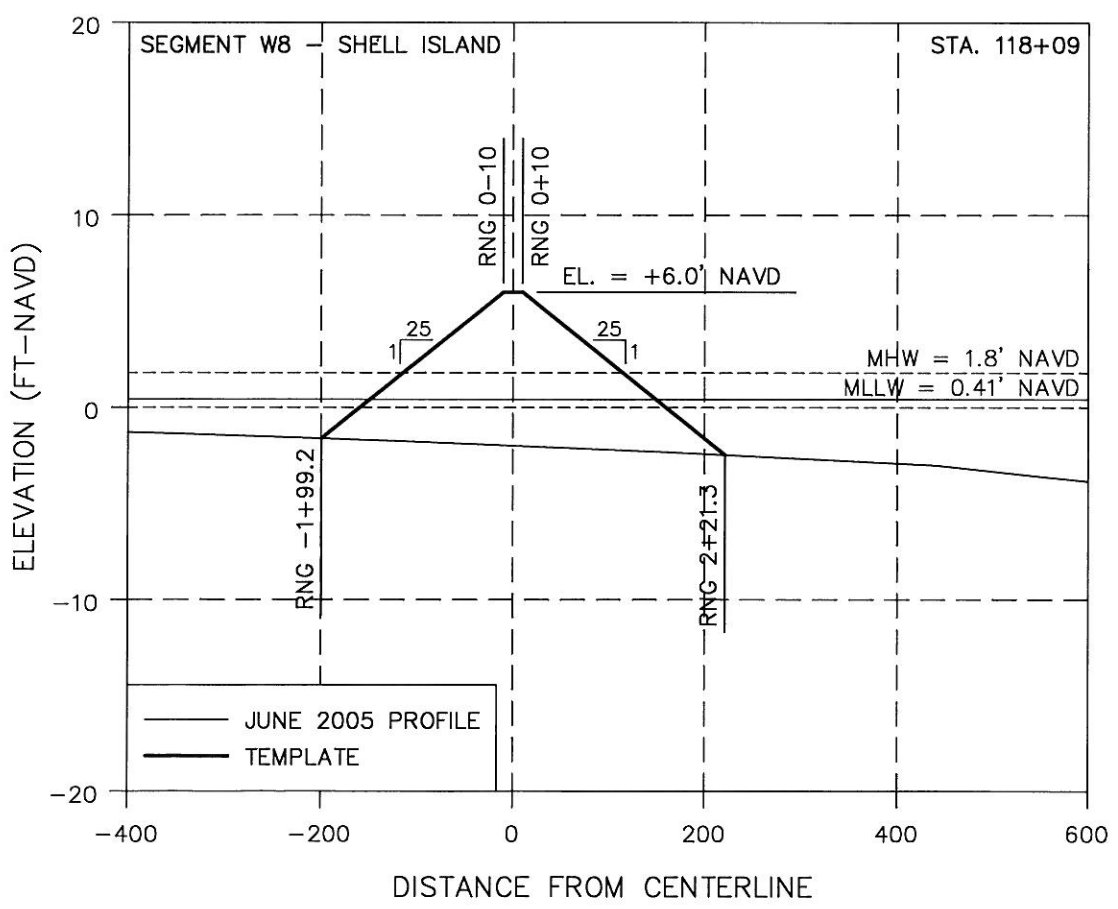
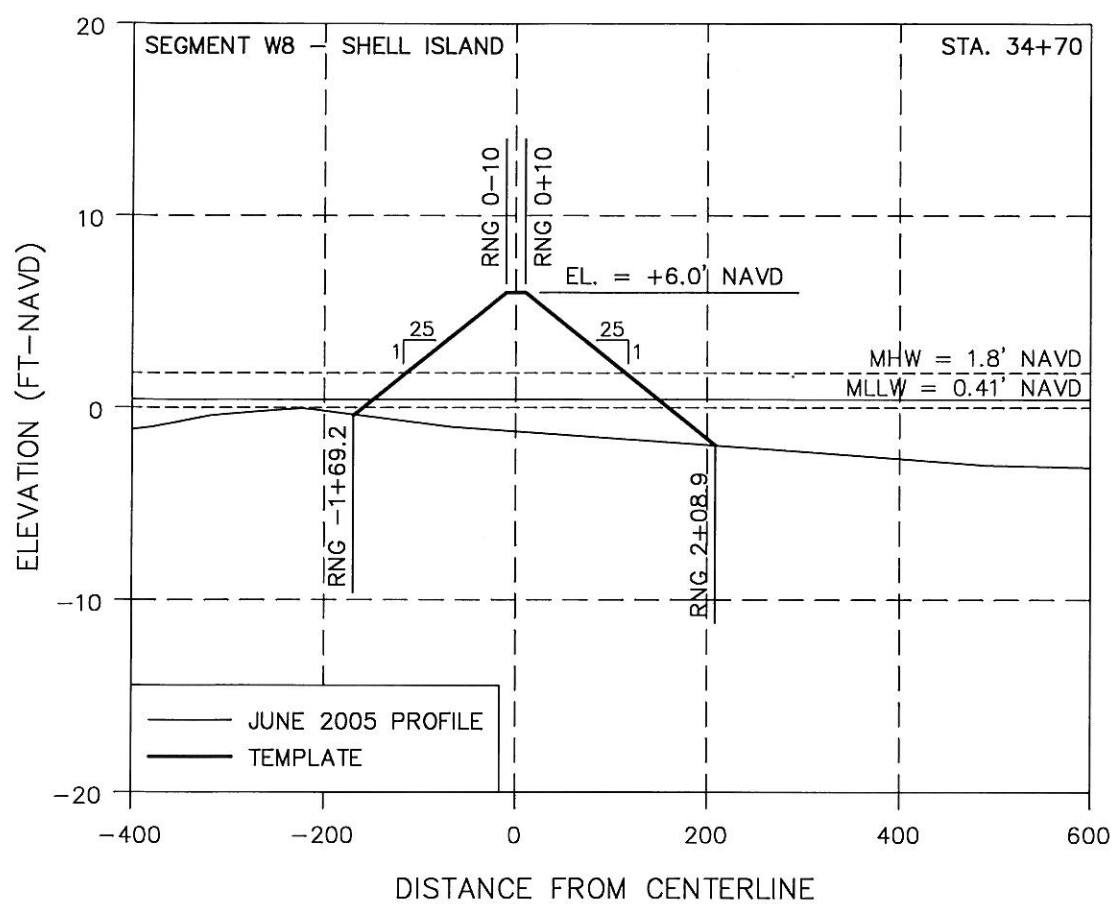
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W8 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 4



P:\Louisiana\790037 Emergency Berm Permitting\CAD\PERMIT\W8-Shell\W8 Shell\_XS.dwg - Jun 27, 2010 @ 8:24pm - abelden



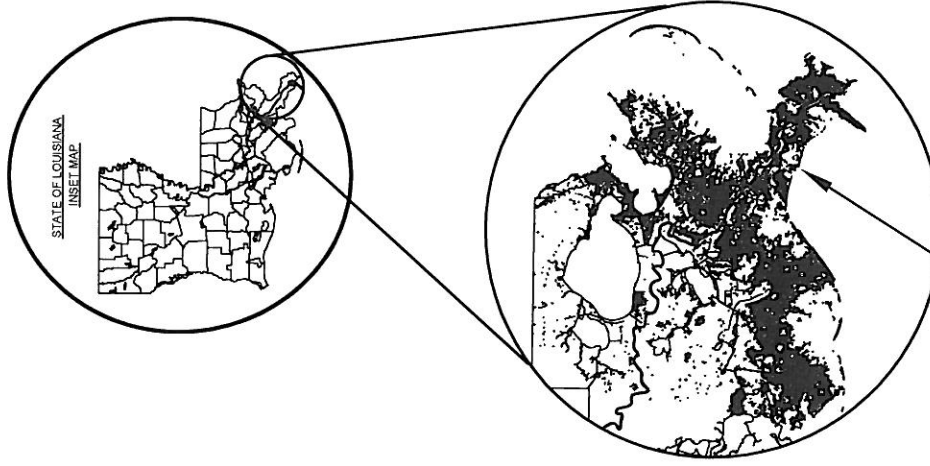
<p>SEGMENT W8 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION  <b>ENGINEERING BRANCH</b>          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY:          OFFICE OF COASTAL PROTECTION &amp; RESTORATION          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/2010</p>	<p>STATE PROJECT NUMBER:          FEDERAL PROJECT NUMBER:</p>		<p>DESIGNED BY:</p>

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

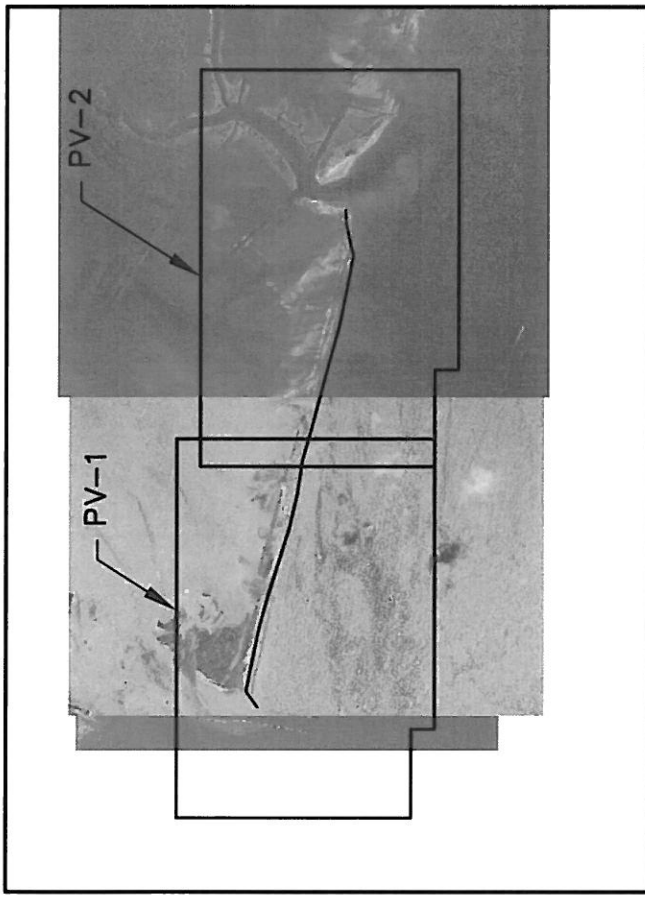
SEGMENT W9  
 PELICAN ISLAND

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4-5	PROFILES



PROJECT LOCATION



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W9 TITLE SHEET
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/22/10 SHEET 1 OF 5

VOLUME = 770,000 CY  
 AREA = 130.3 ACRES  
 BERM LENGTH = 13,030 FT.

E 38330000

N 2800000

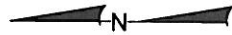
P.O.C.  
 X = 3,830,711.9  
 Y = 2,795,028.8

90+00

11+51

48+29

N 2760000



0 500 1000  
 GRAPHIC SCALE IN FT

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY:

DESIGNED BY:

APPROVED BY:

E 3834000

E 3834000

N 2800000

N 2760000

PELICAN ISLAND

LANDWARD TOE OF BERM

BASELINE

SEAWARD TOE OF BERM

SLOPE BREAK

MATCHLINE PV-2

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH ON THIS SHEET FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

BARRIER ISLAND  
 DEFENSE

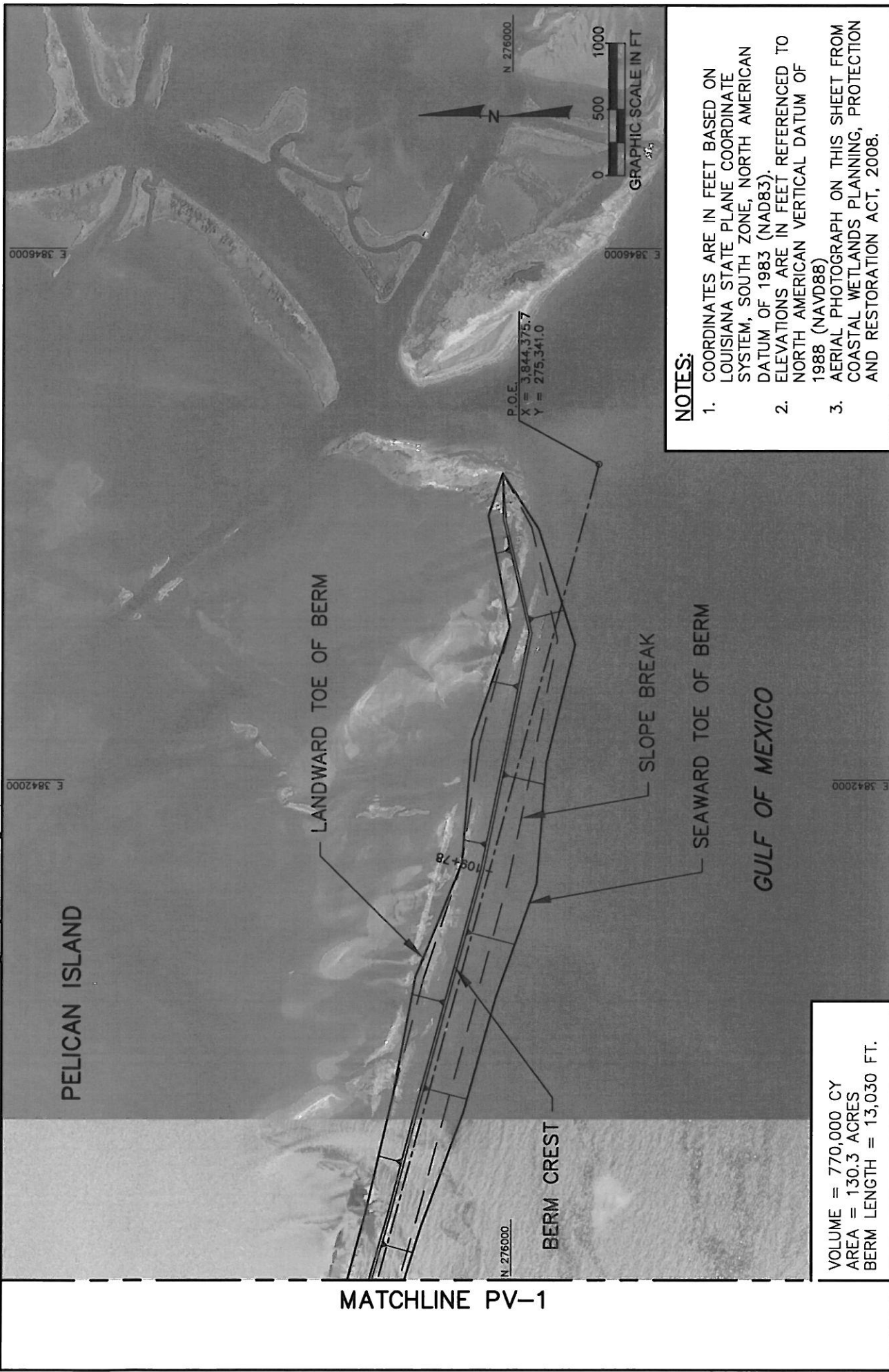
SEGMENT W9  
 PLAN VIEW

STATE PROJECT NUMBER:

DATE: 6/19/10

FEDERAL PROJECT NUMBER:

SHEET 2 OF 5



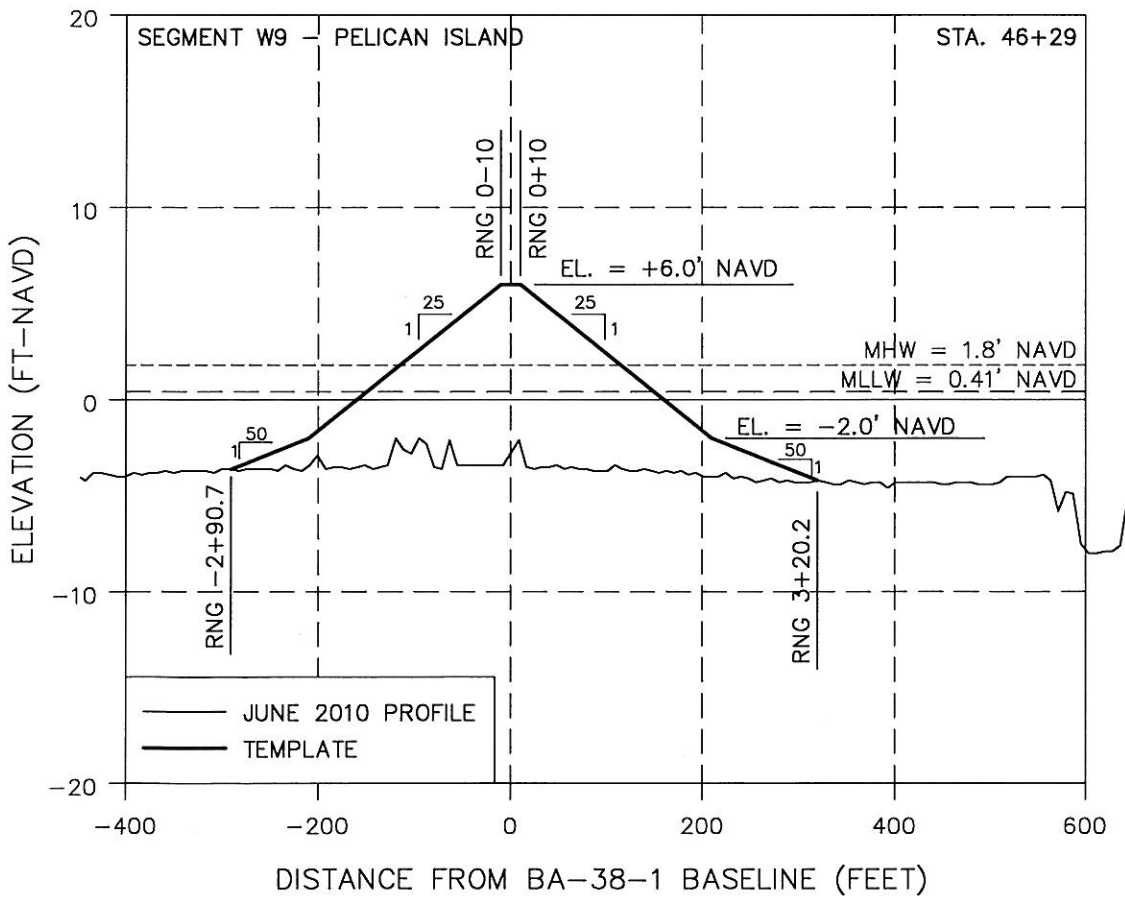
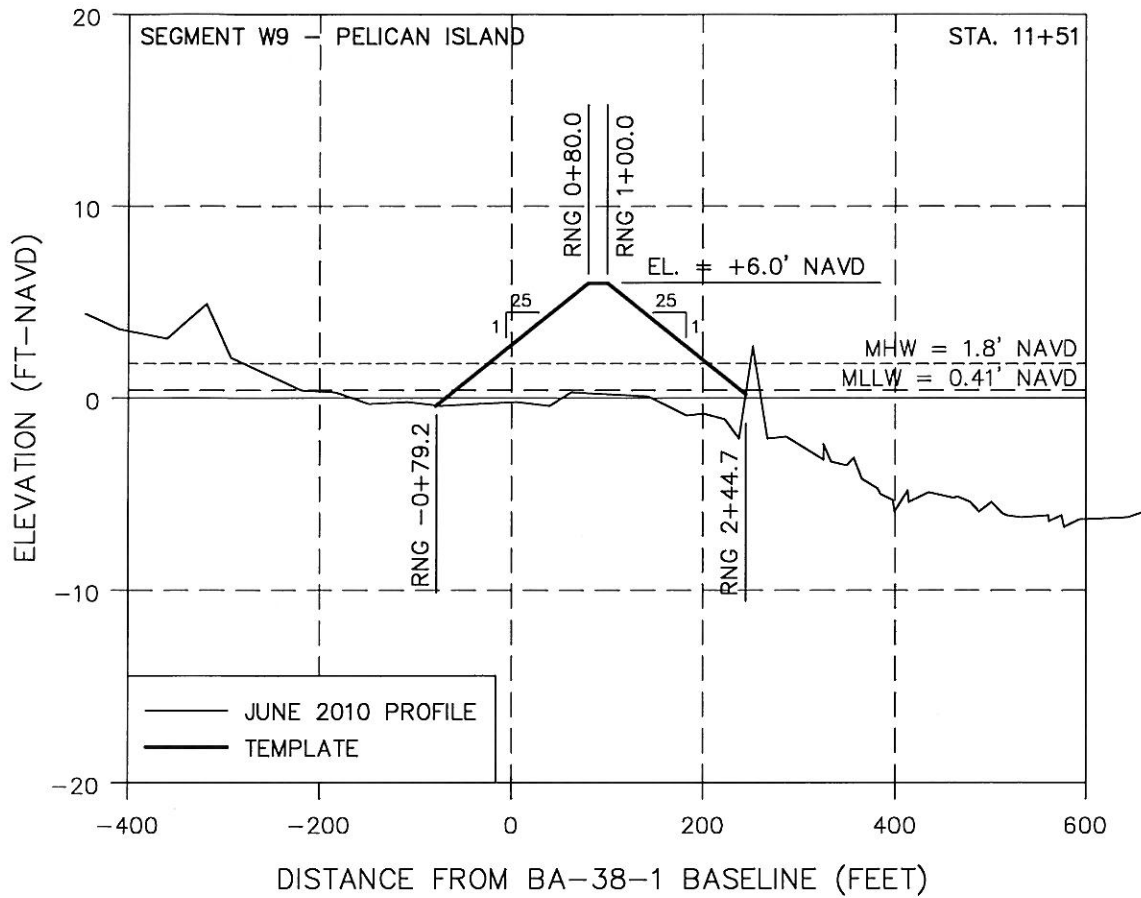
MATCHLINE PV-1

VOLUME = 770,000 CY  
 AREA = 130.3 ACRES  
 BERM LENGTH = 13,030 FT.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH ON THIS SHEET FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W9 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 5



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/22/2010

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

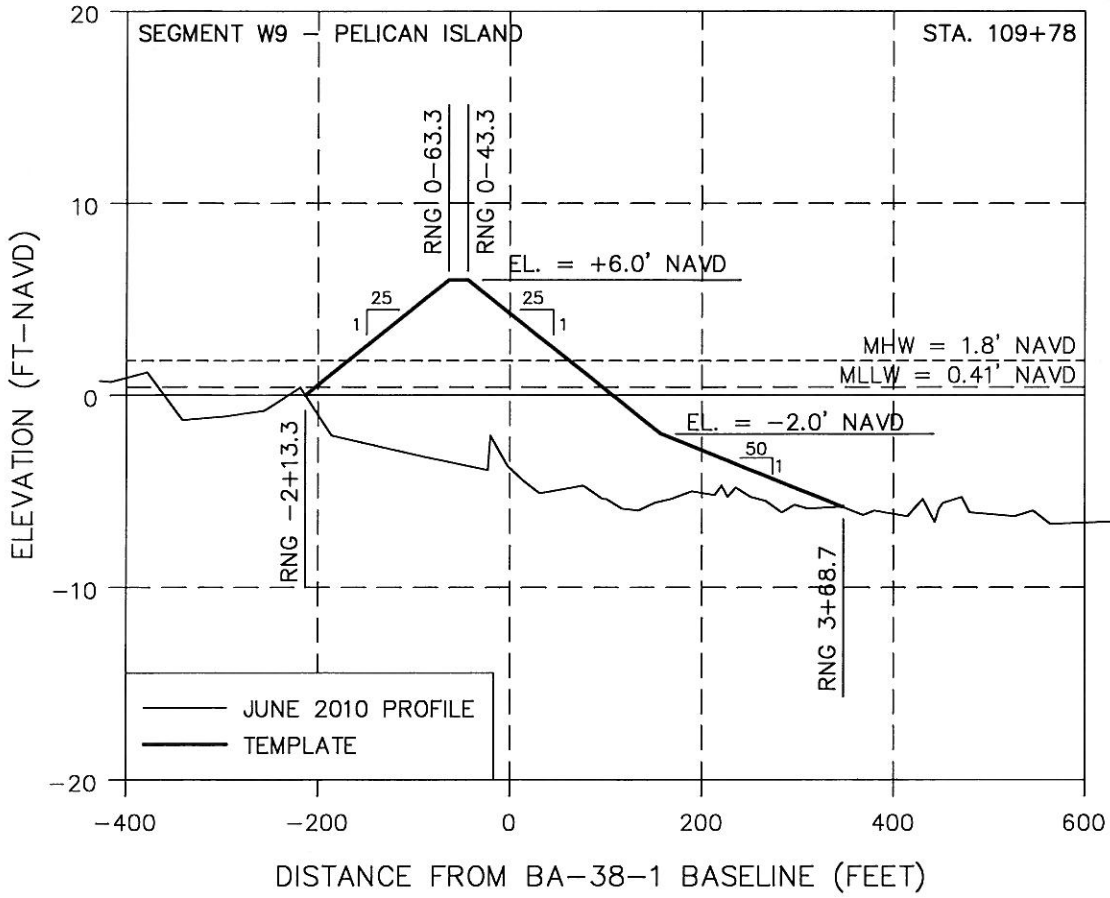
SHEET 4 OF 5

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



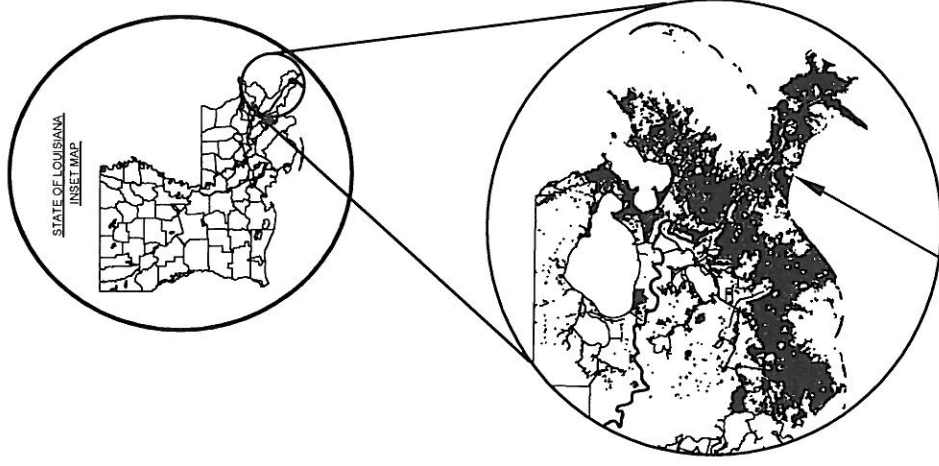
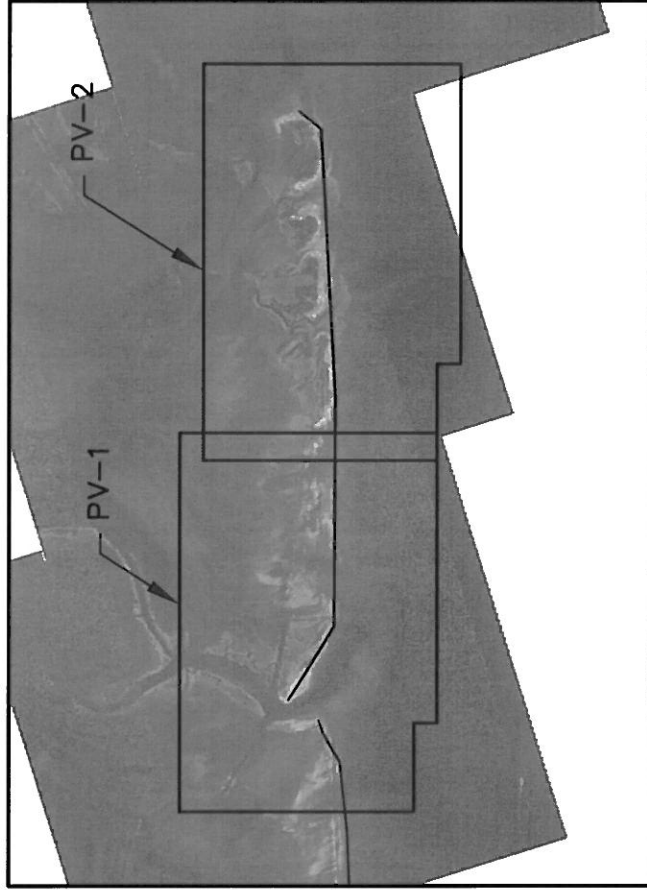
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY:</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>SEGMENT W9 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>STATE PROJECT NUMBER:</p>	<p>DATE: 6/22/10</p>
<p>DRAWN BY:</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>SHEET 5 OF 5</p>	<p></p>

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W10  
 SCOFIELD ISLAND

INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2-3	PLAN VIEWS
4-5	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 TITLE SHEET
DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 6/22/10
APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 1 OF 5

P:\Louisiana\9000\Emergency\_berm\_permitting\Aerial\SW\11U-SCOFIELD\_PV.dwg - JUN 23, 2010 @ 4:11pm - abedent

VOLUME = 1.05M CY  
 AREA = 194.6 ACRES  
 BERM LENGTH = 15,930 FT.

**SCOFIELD ISLAND**

LANDWARD TOE OF BERM

PELICAN BERM CONSTRUCTION

MATCHLINE PV-2

70+00

15+00

00+00

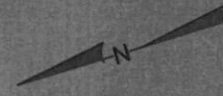
P.O.C.  
 X = 3843545.1  
 Y = 275598.2

SLOPE BREAK  
 SEAWARD TOE OF BERM

X = 3847729.3  
 Y = 273942.3

BASELINE

GULF OF MEXICO

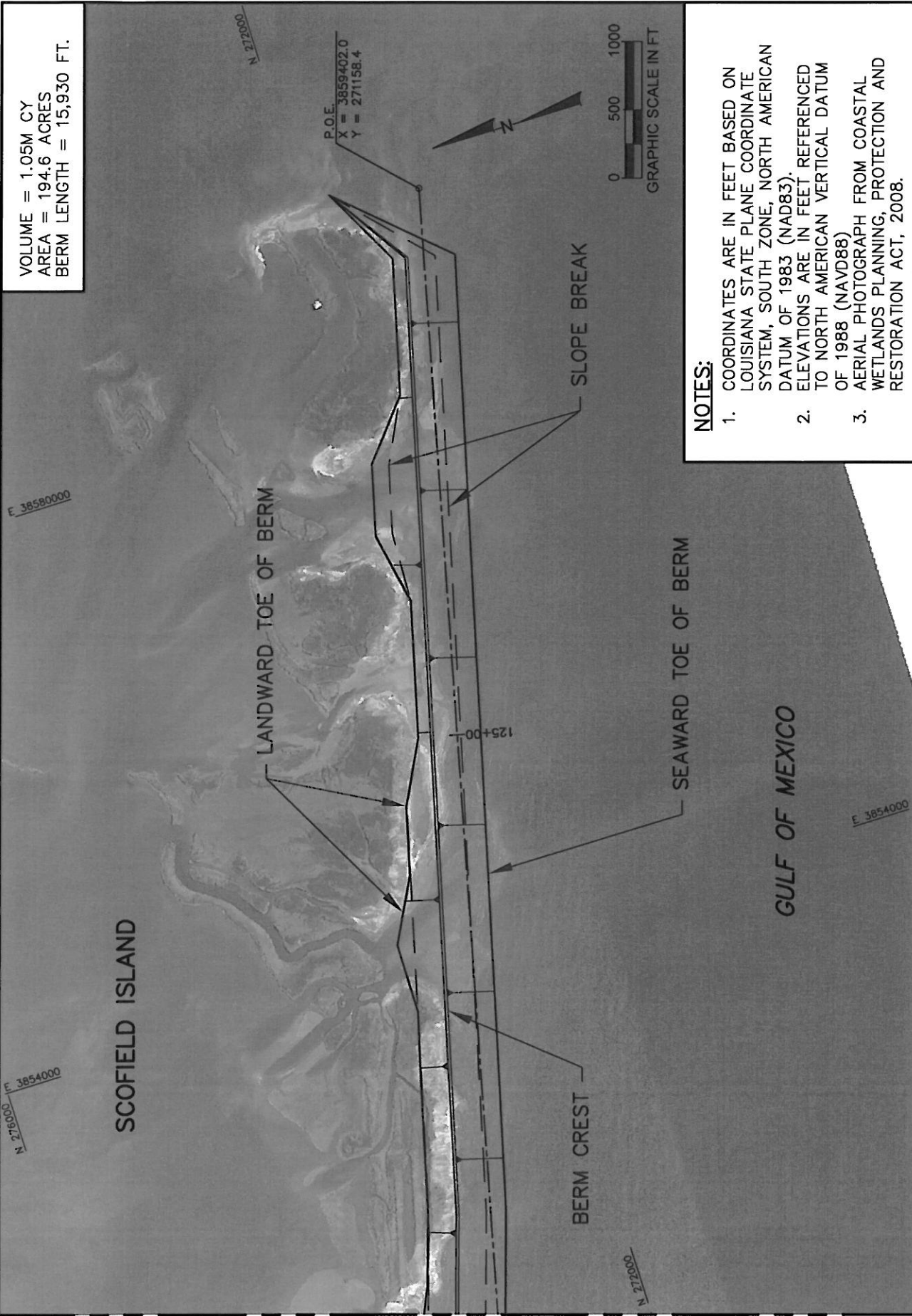


- NOTES:**
- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  - ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  - AERIAL PHOTOGRAPH FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 5



VOLUME = 1.05M CY  
 AREA = 194.6 ACRES  
 BERM LENGTH = 15,930 FT.

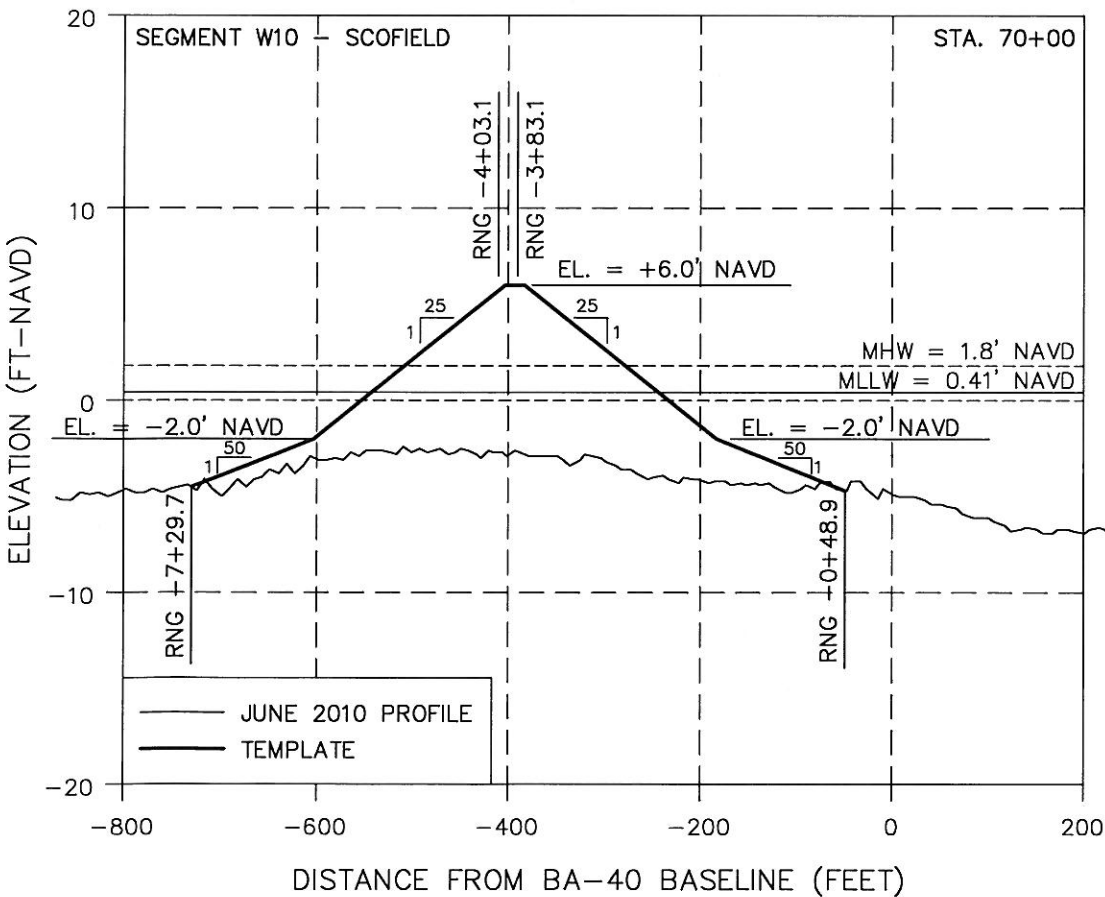
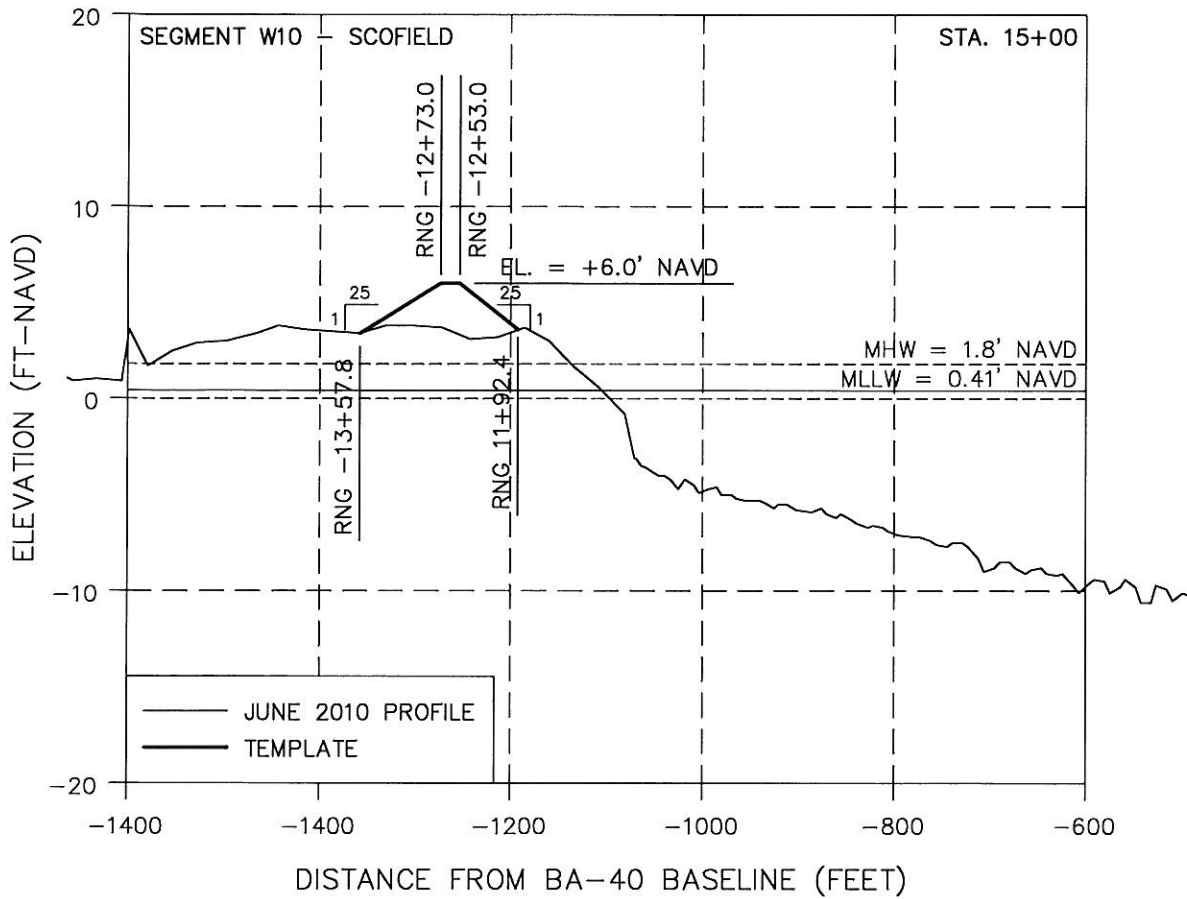


**NOTES:**

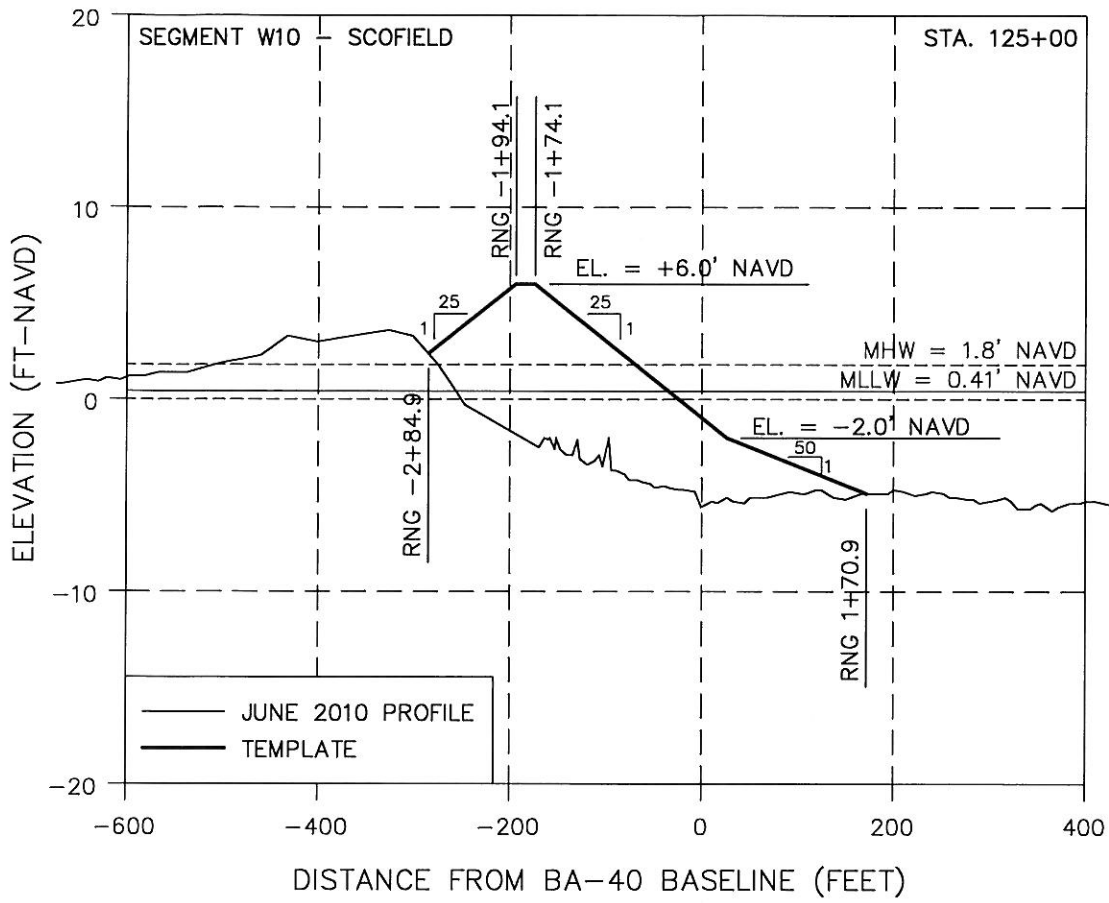
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

MATCHLINE PV-1

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 5



<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		<b>SEGMENT W10</b> <b>PROFILES</b>
<b>APPLICATION BY:</b> OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>DESIGNED BY:</b> A. BELDEN	<b>BARRIER ISLAND</b> <b>DEFENSE</b>
		STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
		DATE: 6/19/2010 SHEET 4 OF 5



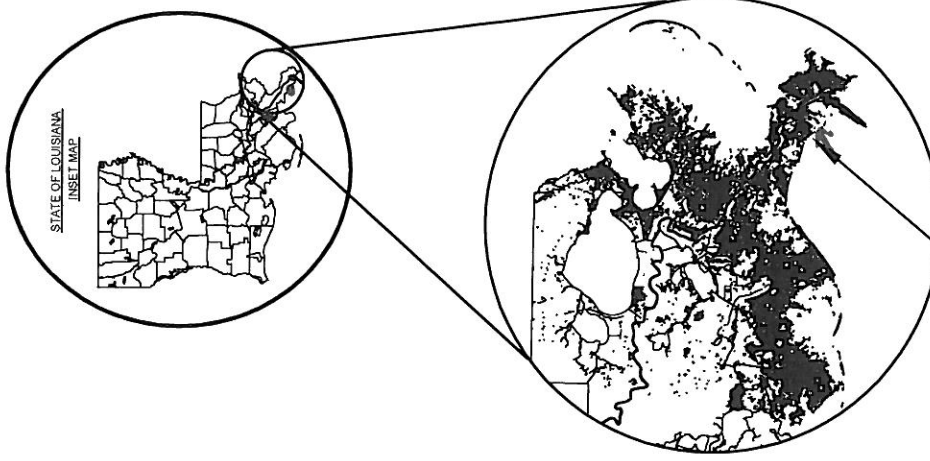
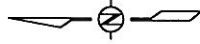
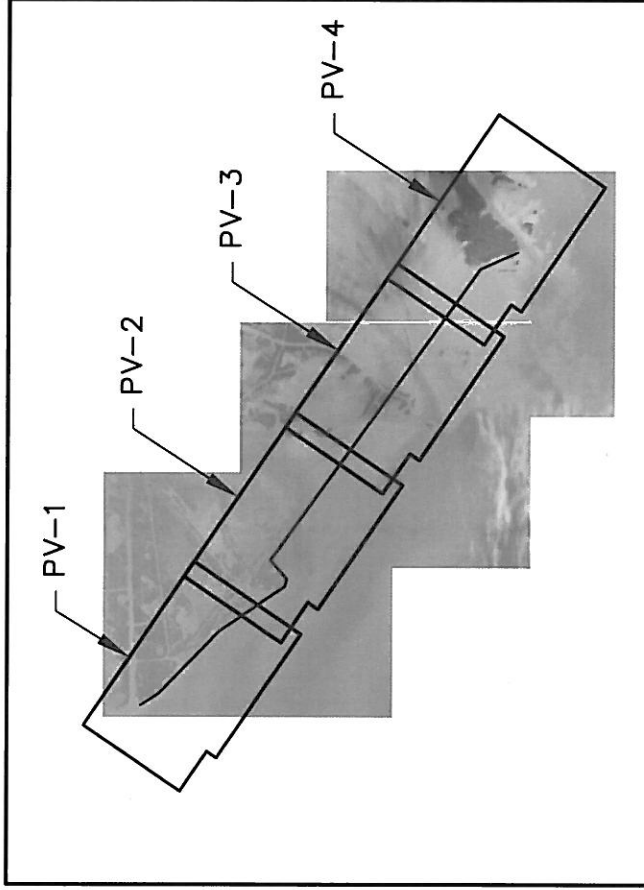
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PROFILES
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:	DATE:
APPROVED BY:	FEDERAL PROJECT NUMBER:		
SHEET 5 OF 5			DATE:

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W11  
 SANDY POINT

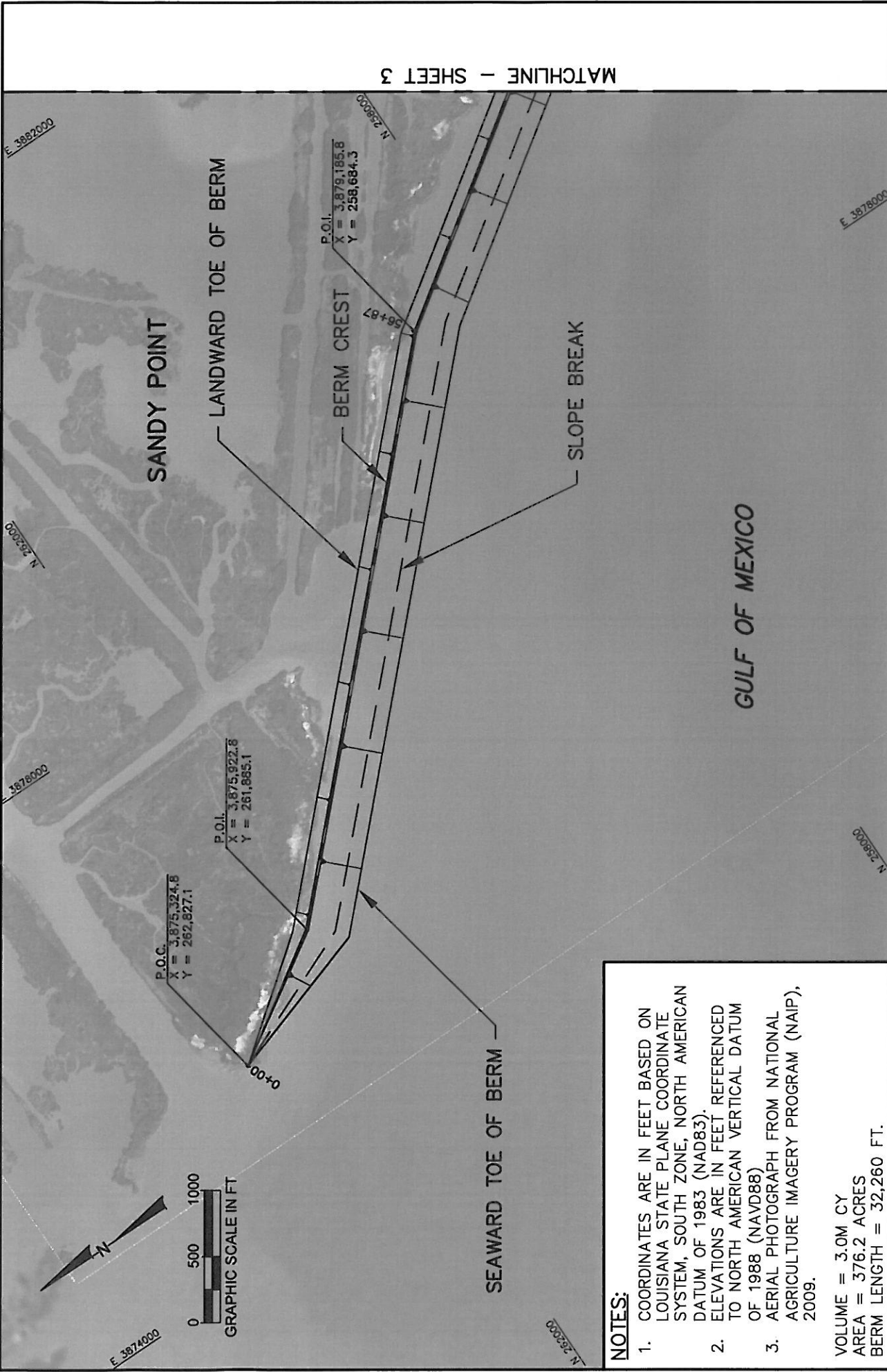
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SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	PLAN VIEWS
5-8	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 TITLE SHEET
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 1 OF 8



MATCHLINE - SHEET 3

GULF OF MEXICO

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

VOLUME = 3.0M CY  
 AREA = 376.2 ACRES  
 BERM LENGTH = 32,260 FT.

<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH                  450 LAUREL STREET                  BATON ROUGE, LOUISIANA 70801</p>	<p>SEGMENT W11                  PLAN VIEW</p>
<p>DESIGNED BY:</p>	<p>APPROVED BY:</p>	<p>DATE: 6/19/10                  SHEET 2 OF 8</p>
<p>STATE PROJECT NUMBER:</p>		<p>FEDERAL PROJECT NUMBER:</p>

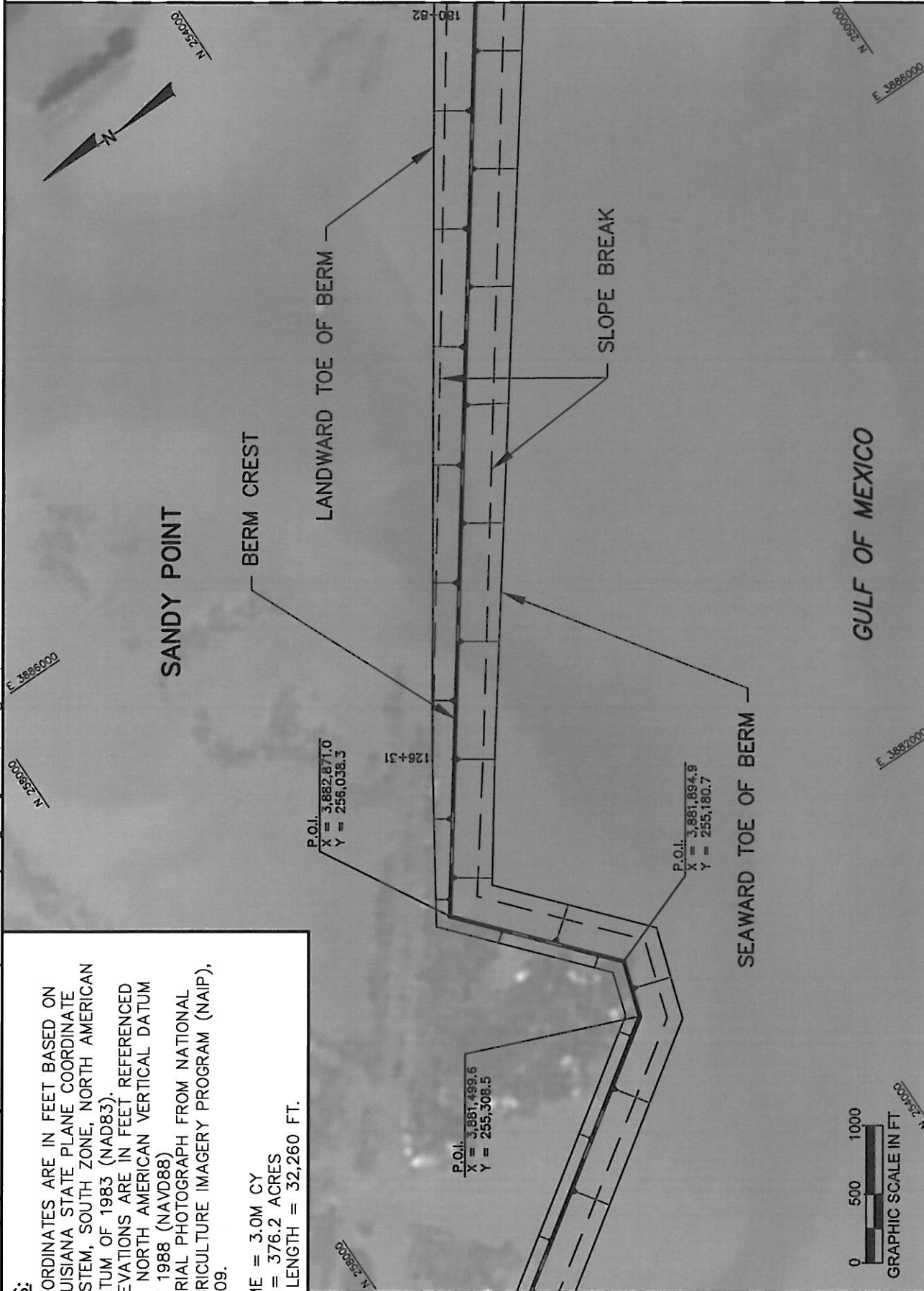
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
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VOLUME = 3.0M CY  
 AREA = 376.2 ACRES  
 BERM LENGTH = 32,260 FT.

MATCHLINE - SHEET 2

MATCHLINE - SHEET 4



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 8

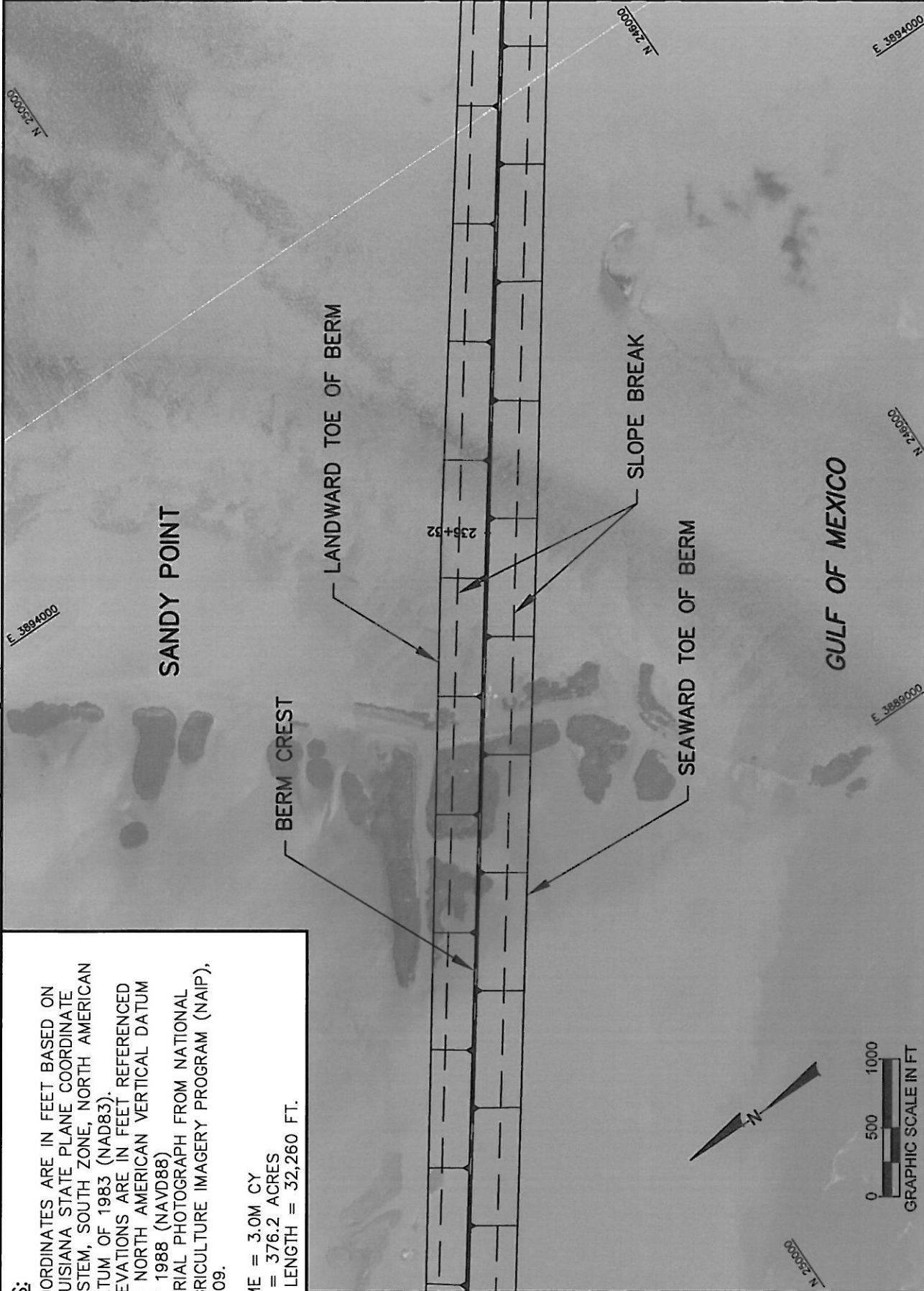
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

VOLUME = 3.0M CY  
 AREA = 376.2 ACRES  
 BERM LENGTH = 32,260 FT.

MATCHLINE - SHEET 3

MATCHLINE - SHEET 5



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

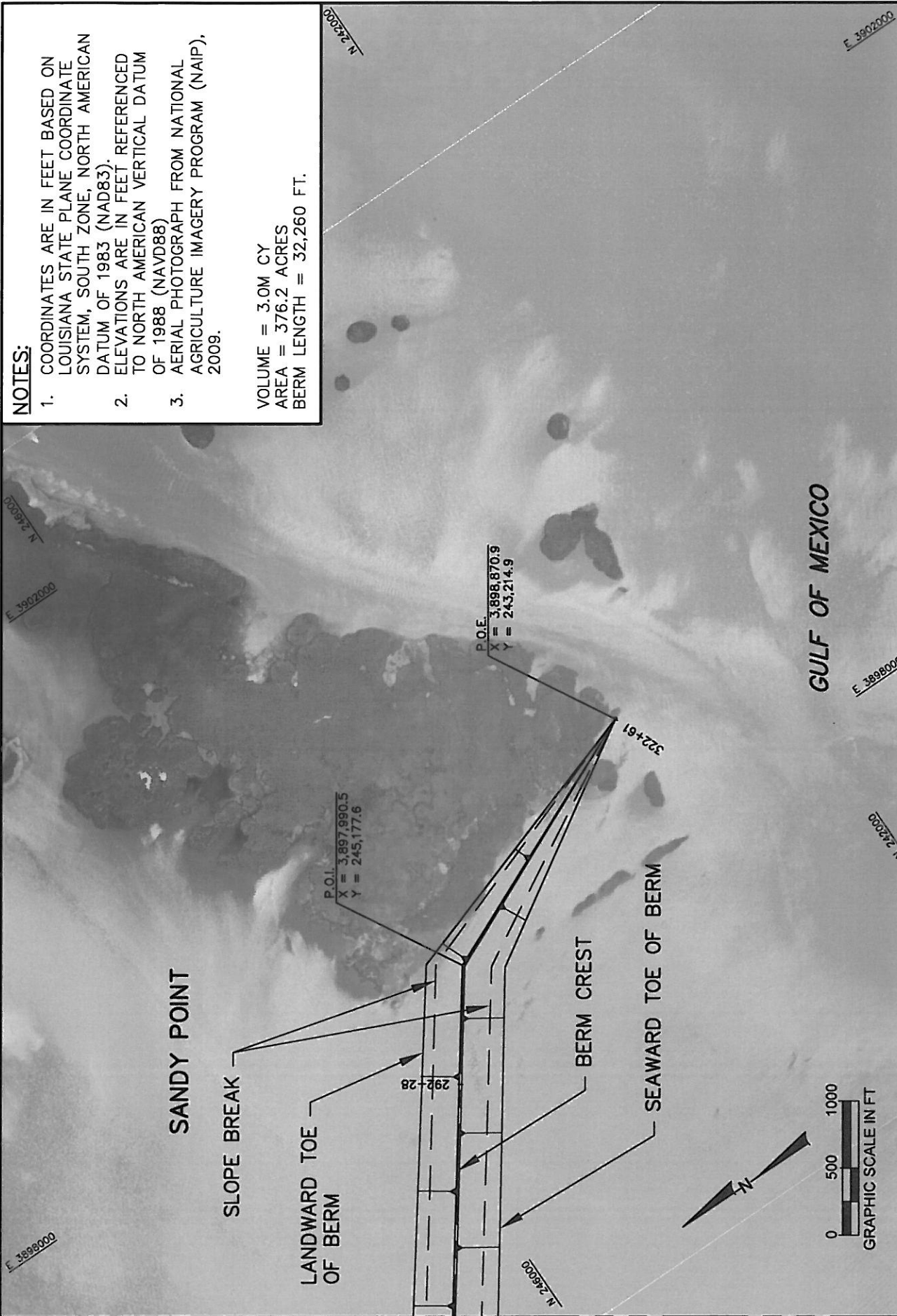
DESIGNED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE

STATE PROJECT NUMBER: \_\_\_\_\_  
 FEDERAL PROJECT NUMBER: \_\_\_\_\_

SEGMENT W11  
 PLAN VIEW

DATE: 6/19/10  
 SHEET 4 OF 8



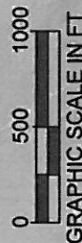
MATCHLINE - SHEET 5

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

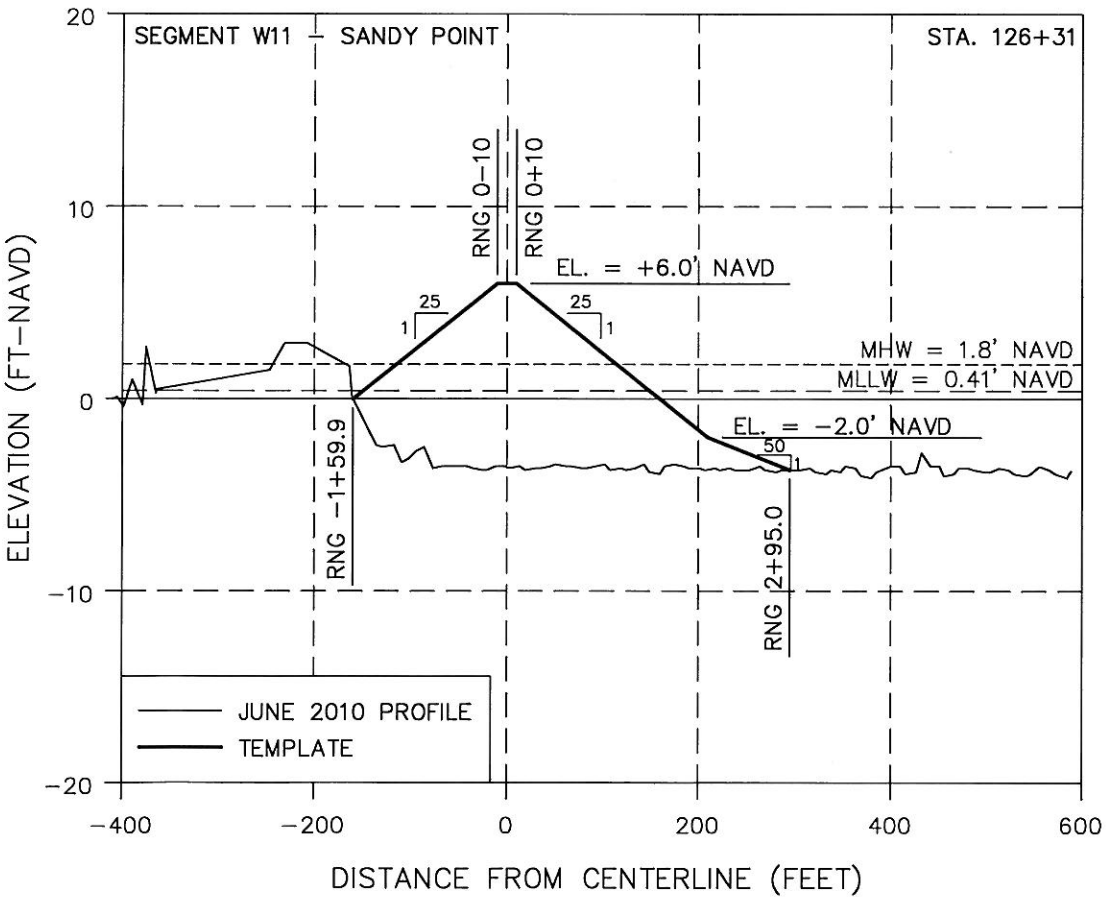
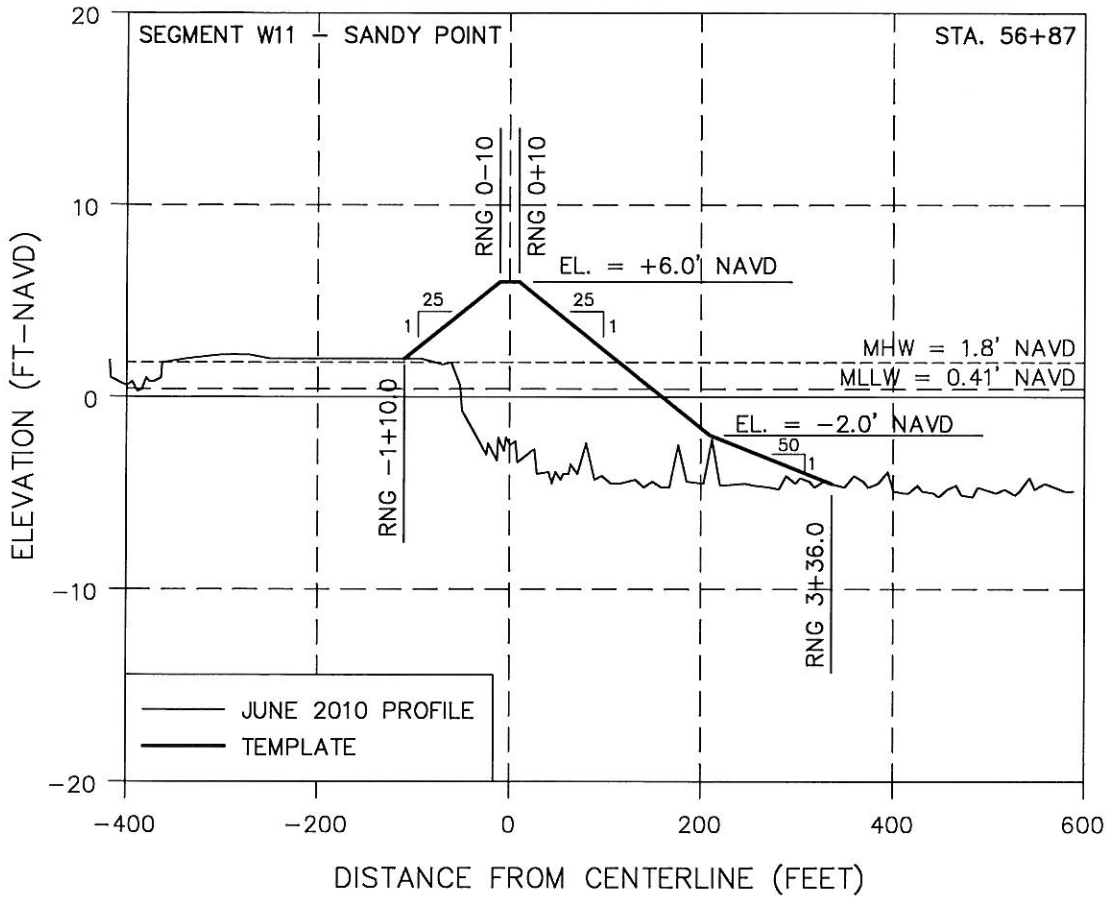
VOLUME = 3.0M CY  
 AREA = 376.2 ACRES  
 BERM LENGTH = 32,260 FT.

GULF OF MEXICO



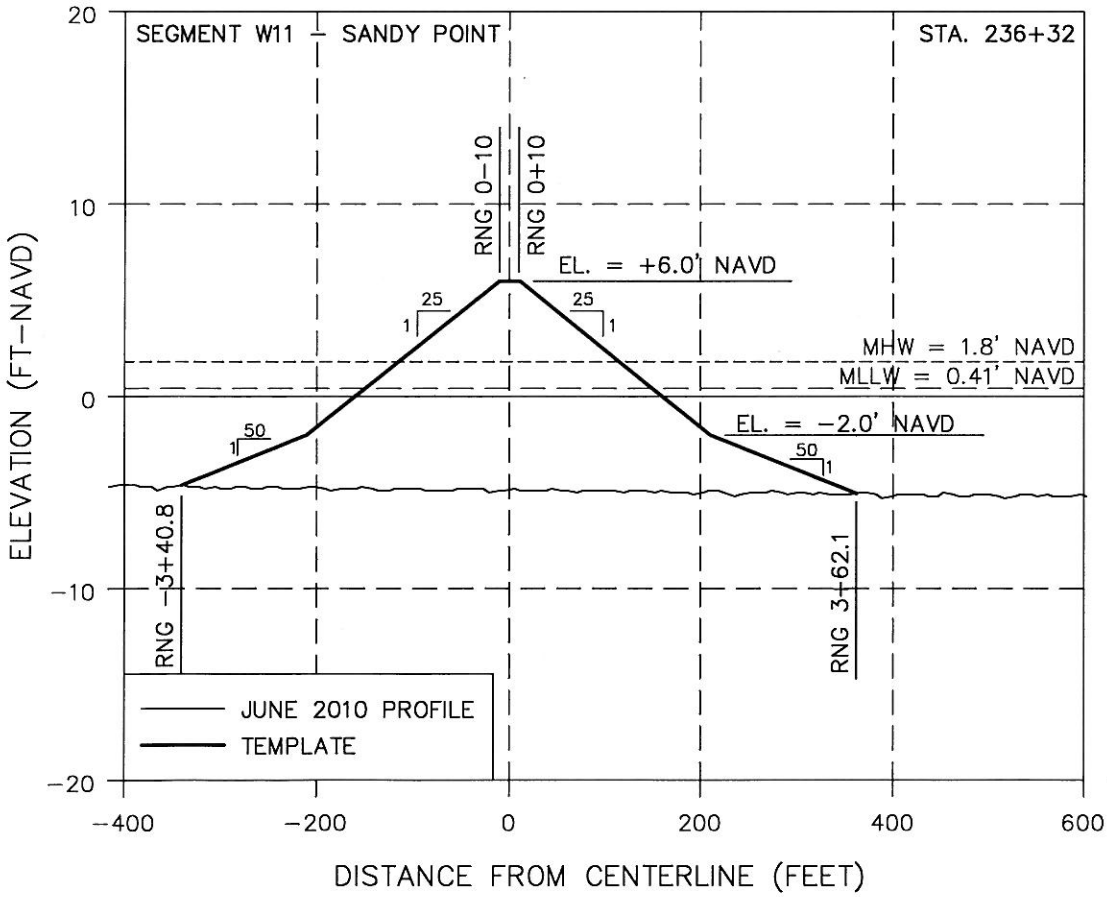
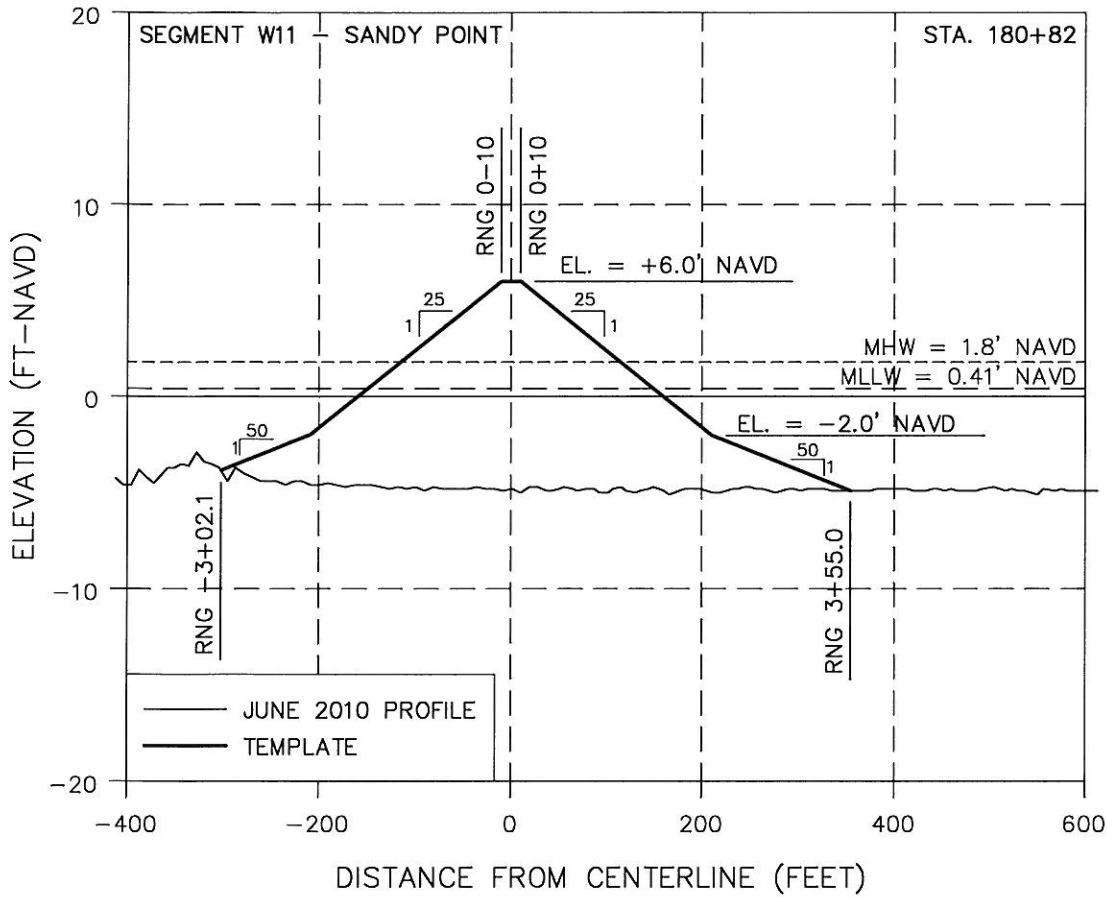
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	DATE: 6/19/10  SHEET 5 OF 8



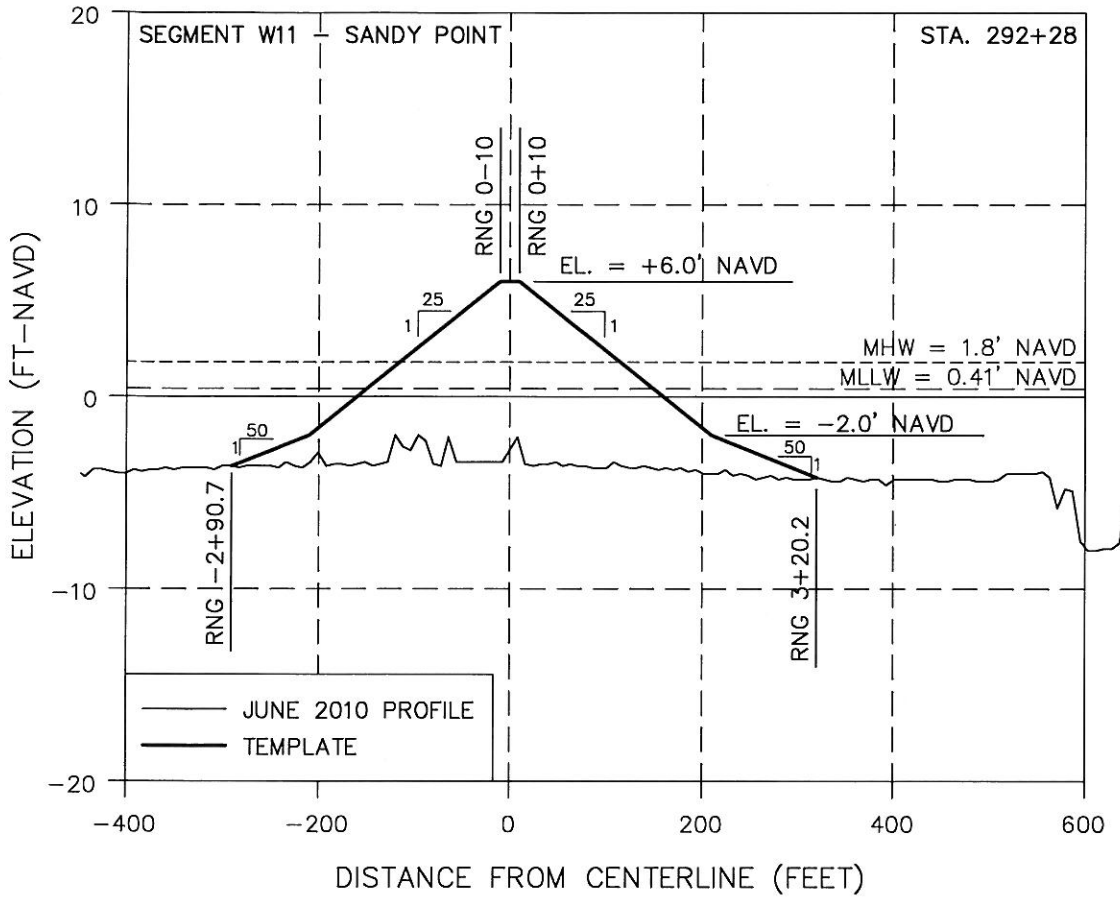


<p>SEGMENT W11 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/2010</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 6 OF 8</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>

P:\Louisiana\790037\_Emergency Barr. Permitting\CAD\PERMITS\W11-Sandy Point\XS.dwg - Jun.25. 2010 @ 11:00pm - abelden



<p>SEGMENT W11 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/19/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>FEDERAL PROJECT NUMBER:</p>		<p>APPROVED BY:</p>	
<p>SHEET 7 OF 8</p>			



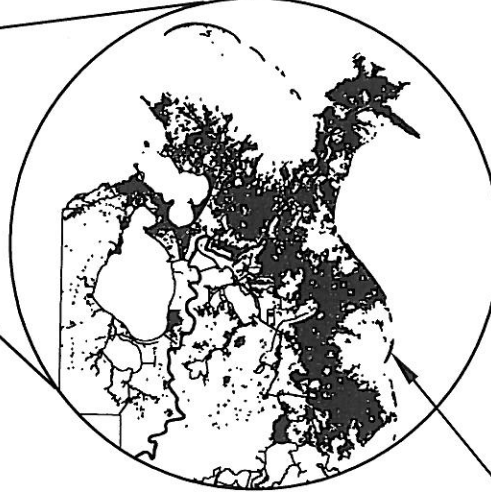
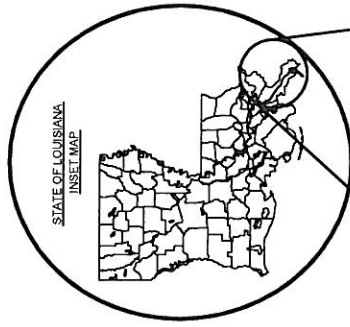
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>SEGMENT W11 PROFILES</p>
<p>DRAWN BY:</p>	<p>DESIGNED BY:</p>	<p>BARRIER ISLAND DEFENSE</p>
<p>DATE: 6/19/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DATE: 6/19/10</p>
<p>SHEET 8 OF 8</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>SHEET 8 OF 8</p>

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

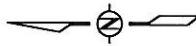
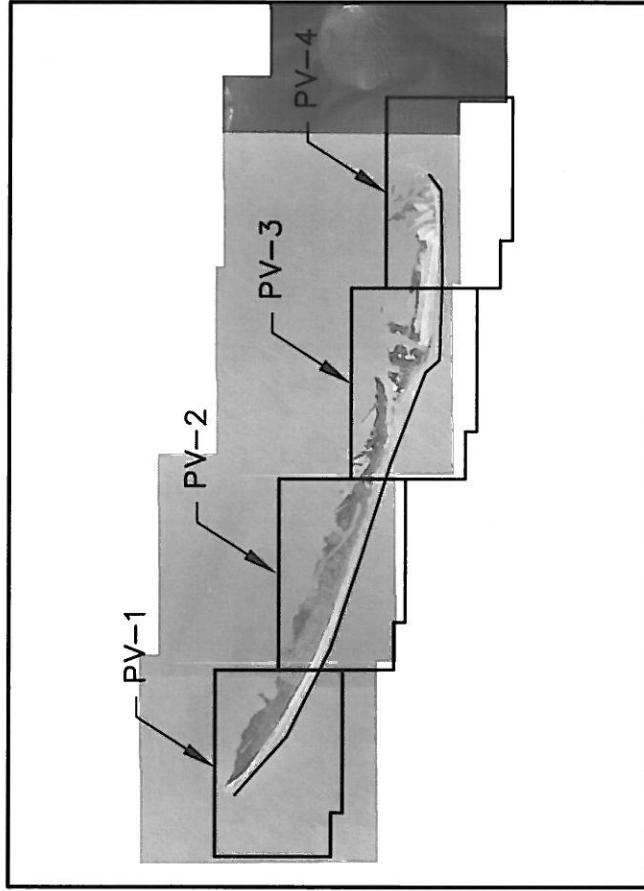
SEGMENT W12  
 TIMBALIER ISLAND

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	PLAN VIEWS
6-9	PROFILES



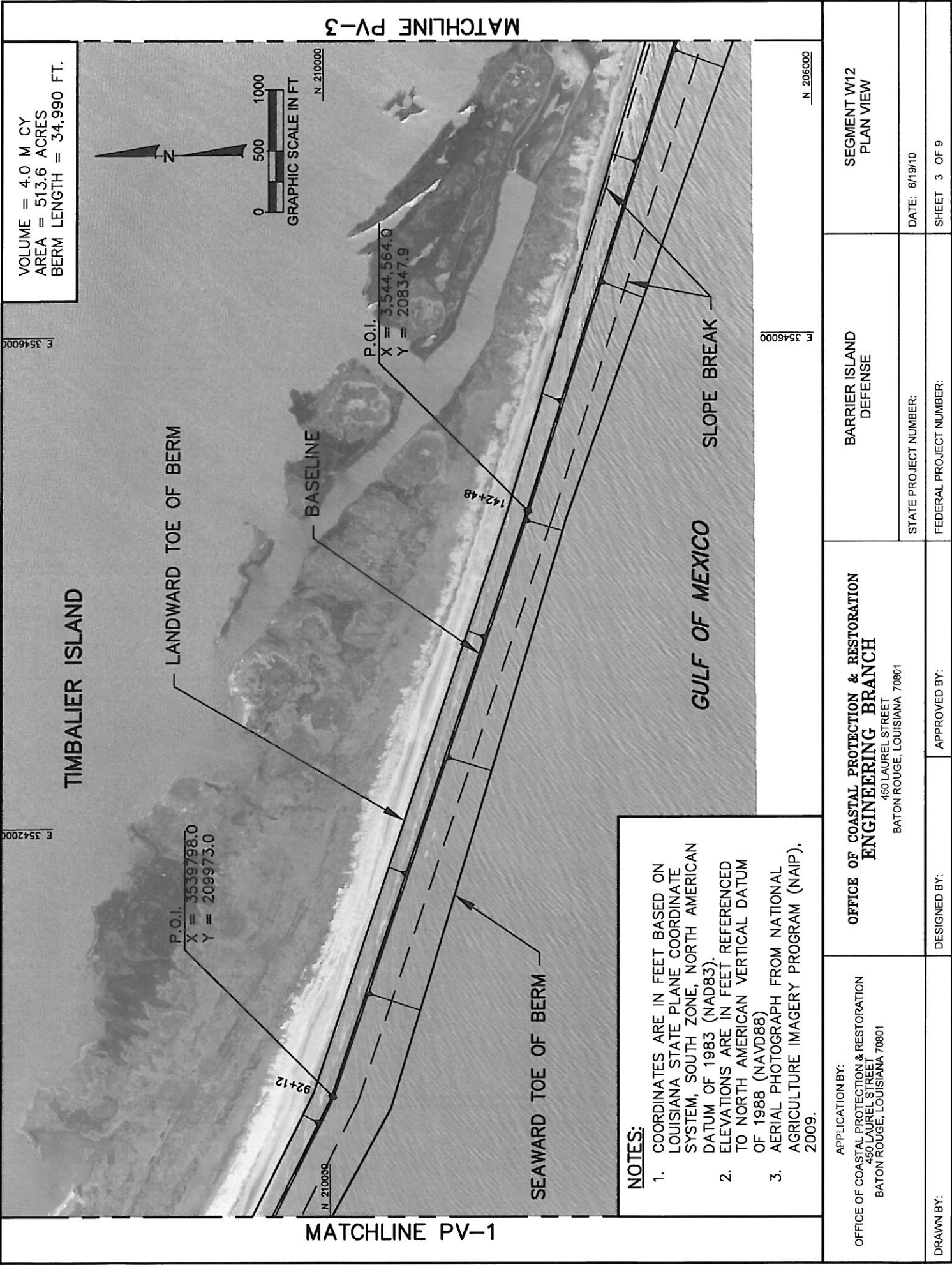
PROJECT LOCATION



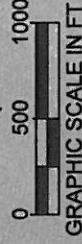
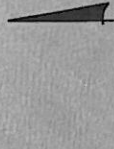
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W12 TITLE SHEET
			DATE: 6/22/10
DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:	SHEET 1 OF 9
DRAWN BY:	FEDERAL PROJECT NUMBER:		



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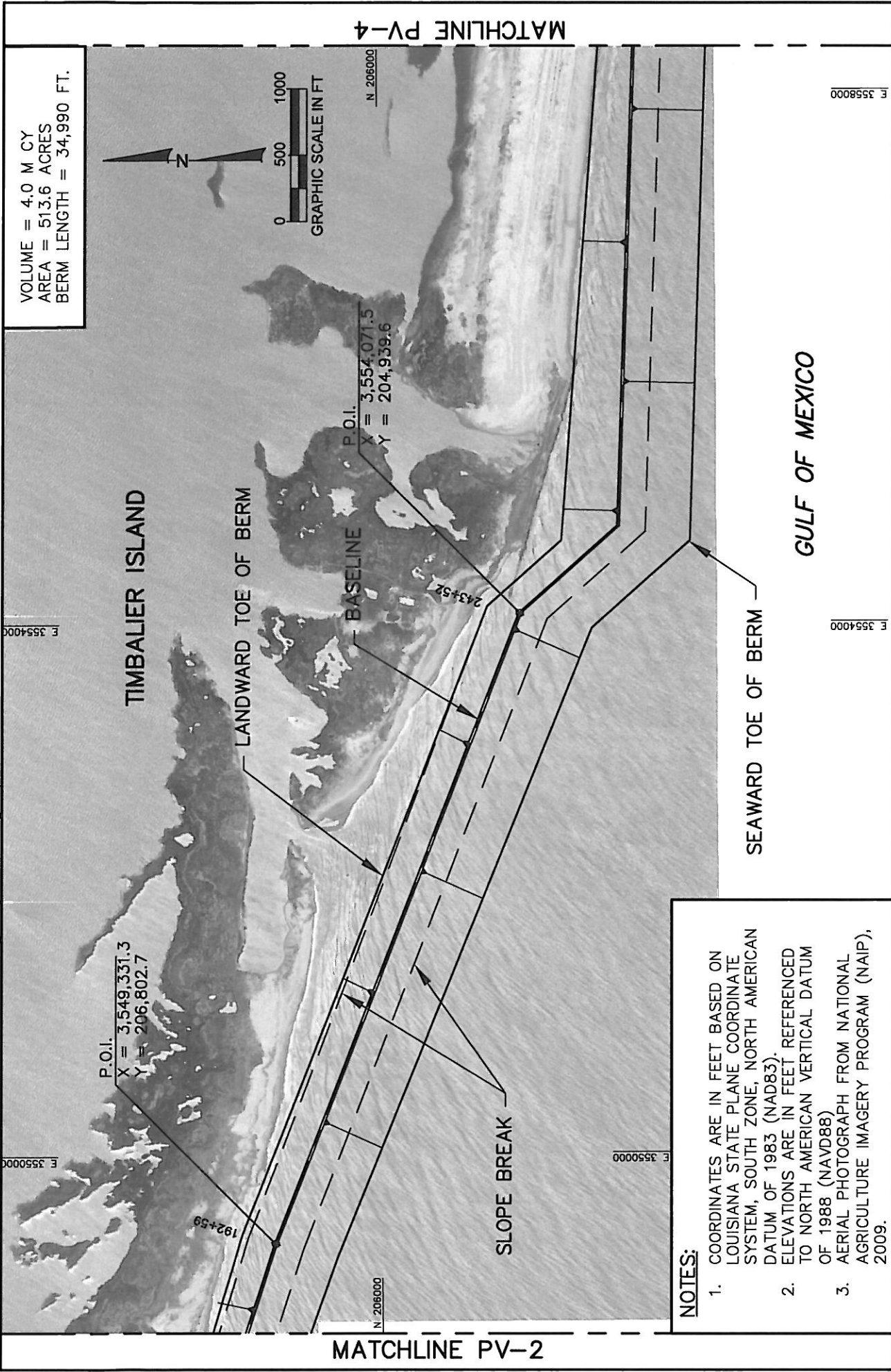
VOLUME = 4.0 M CY  
 AREA = 513.6 ACRES  
 BERM LENGTH = 34,990 FT.



**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
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- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W12 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10 SHEET 3 OF 9



VOLUME = 4.0 M CY  
 AREA = 513.6 ACRES  
 BERM LENGTH = 34,990 FT.

P.O.I.  
 X = 3,549,337.3  
 Y = 206,802.7

P.O.I.  
 X = 3,554,071.5  
 Y = 204,939.6

- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  2. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W12 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10 SHEET 4 OF 9
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	

VOLUME = 4.0 M CY  
 AREA = 513.6 ACRES  
 BERM LENGTH = 34,990 FT.

N 2060000

N 2060000

TIMBALIER ISLAND

P.O.E.  
 X = 3,564,191.3  
 Y = 204,588.2

LANDWARD TOE OF BERM

P.O.I.  
 X = 3,558,955.3  
 Y = 204,038.4

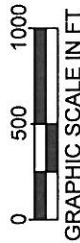
BASELINE

345+83

293+19

SLOPE BREAK

SEAWARD TOE OF BERM



GULF OF MEXICO

N 2060000

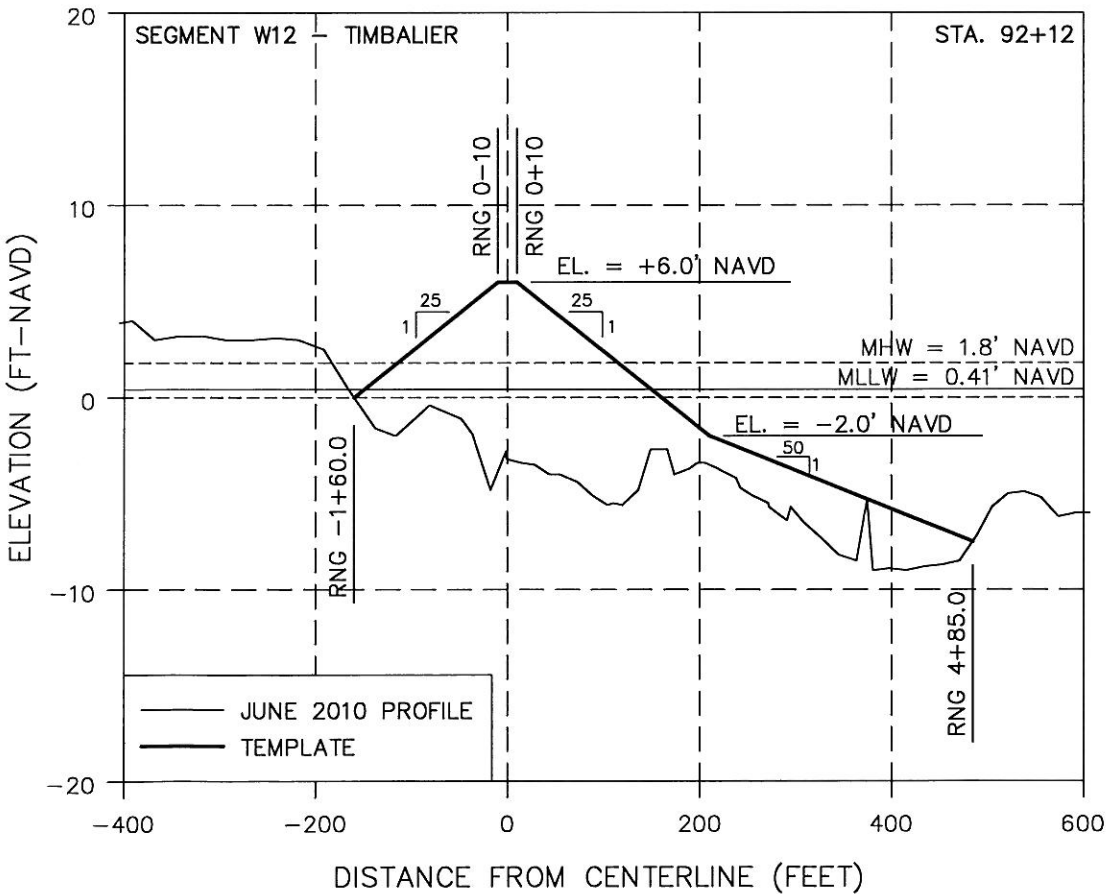
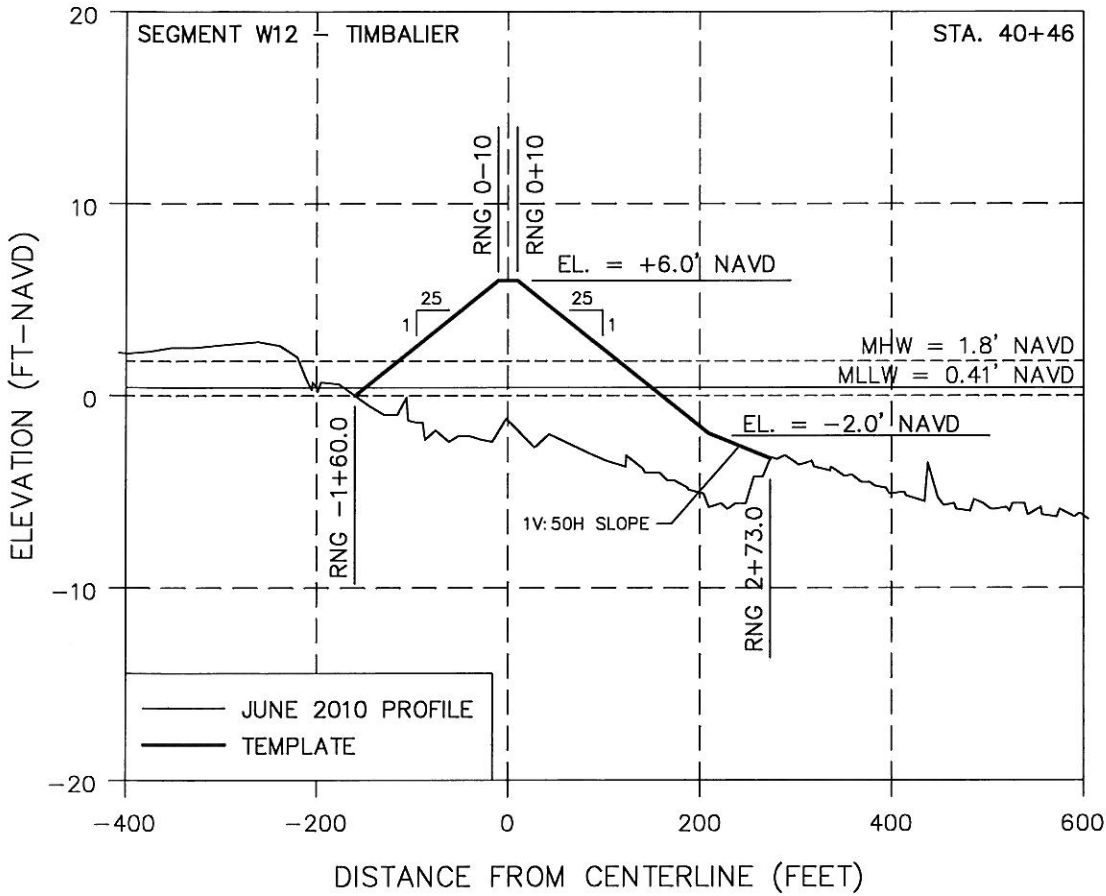
N 2020000

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W12 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 5 OF 9





SEGMENT W12  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/19/2010

SHEET 6 OF 9

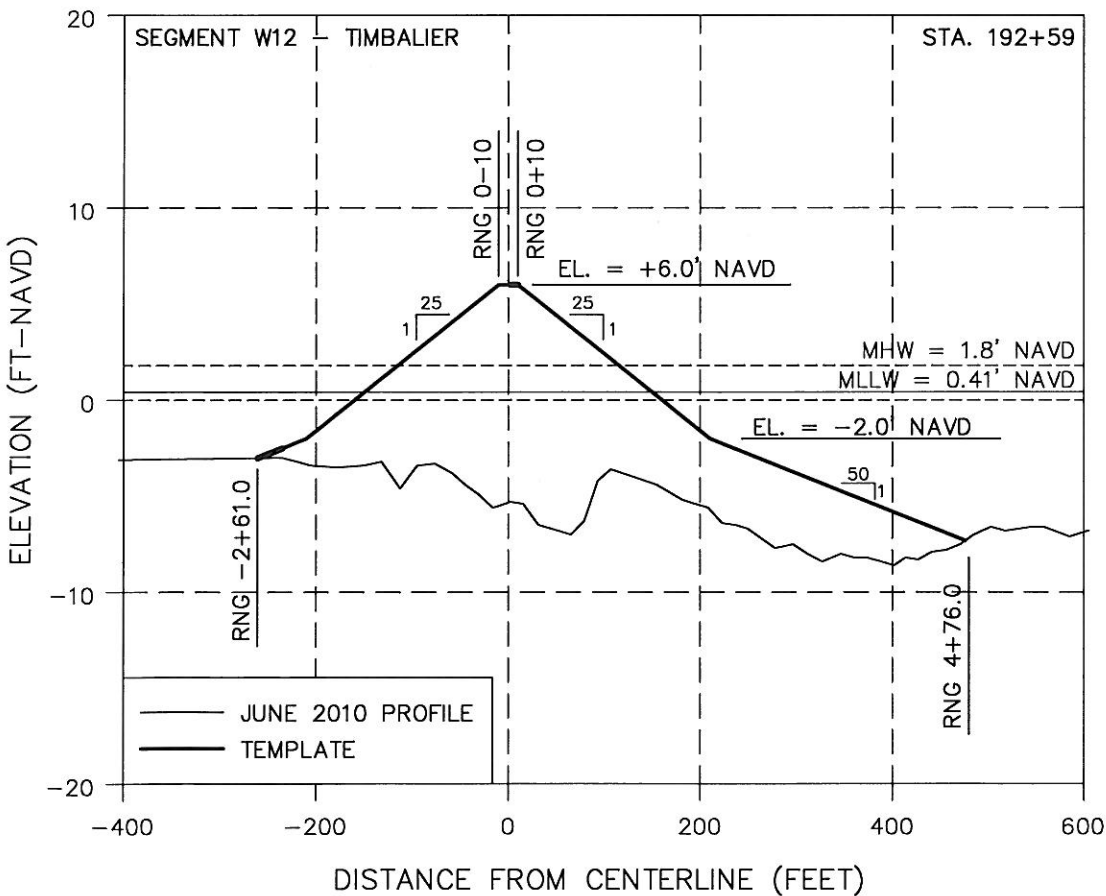
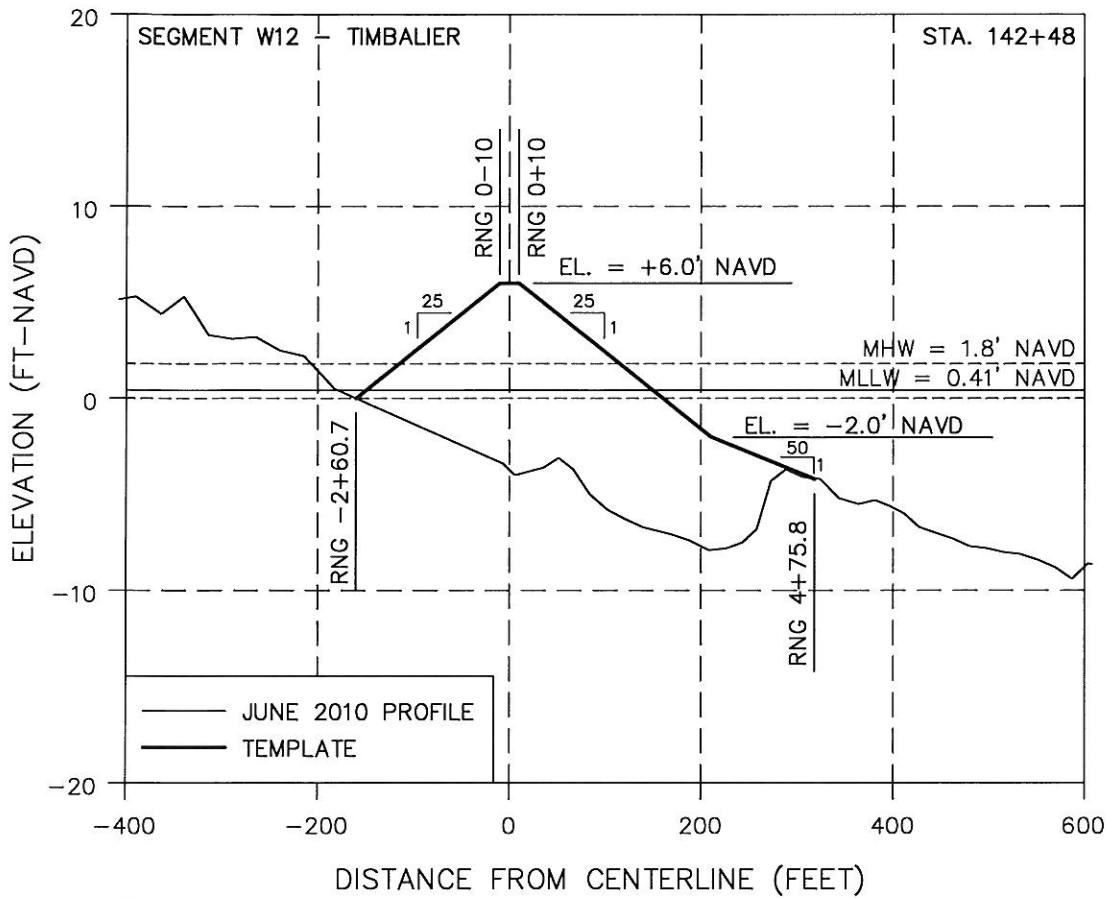
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W12  
PROFILES

DATE:

SHEET 7 OF 9

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:

APPROVED BY:

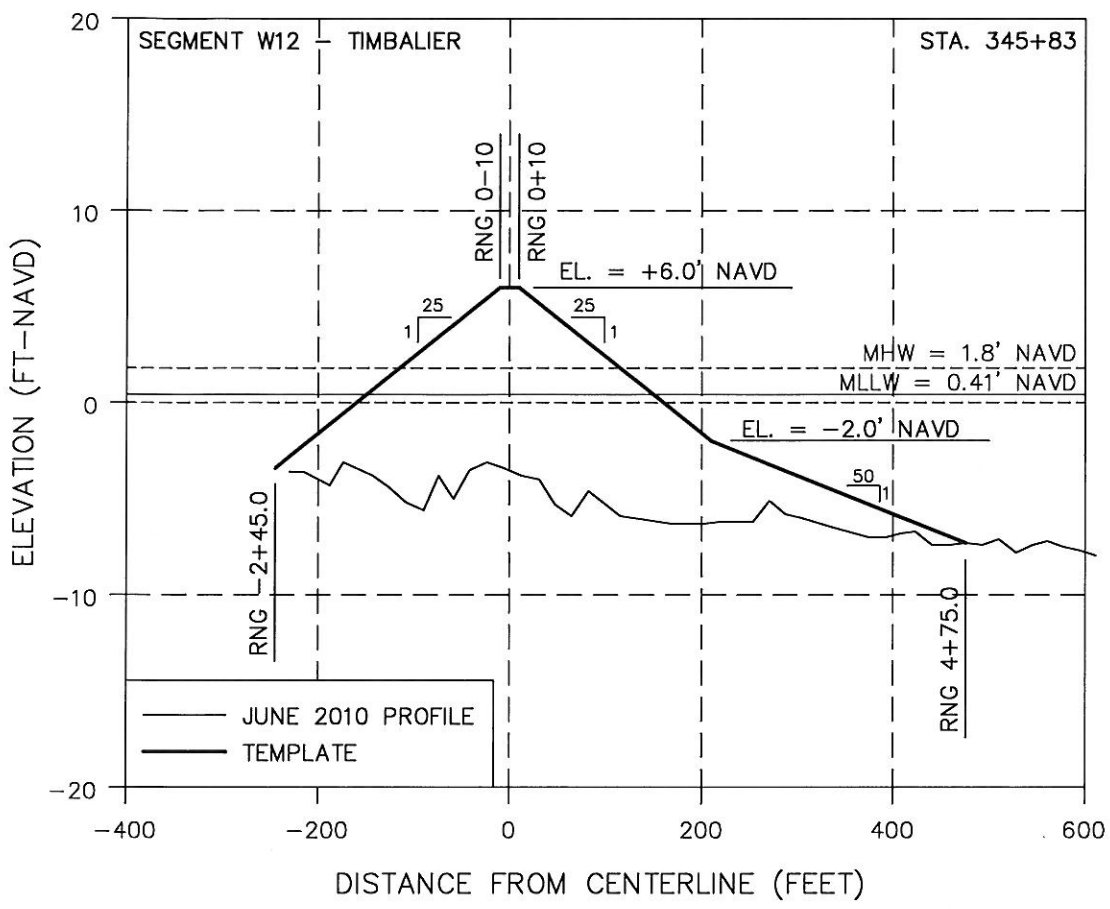
DESIGNED BY:

DRAWN BY:

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APPLICATION BY:	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	SEGMENT W12 PROFILES
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
DATE:	APPROVED BY:	SHEET 9 OF 9

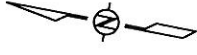
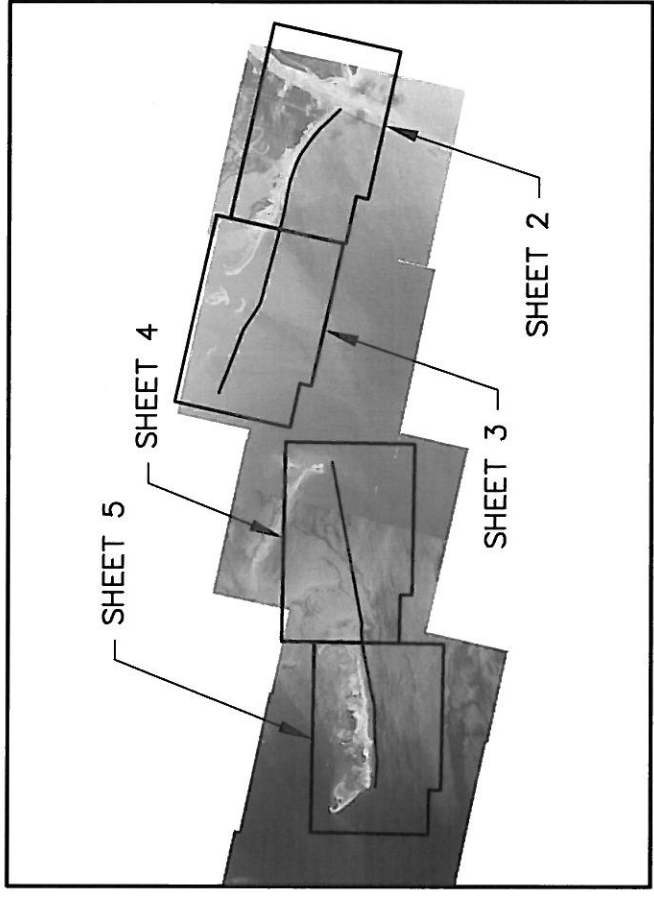
**STATE OF LOUISIANA**  
**OFFICE OF COASTAL PROTECTION AND RESTORATION**  
**ENGINEERING BRANCH**

---

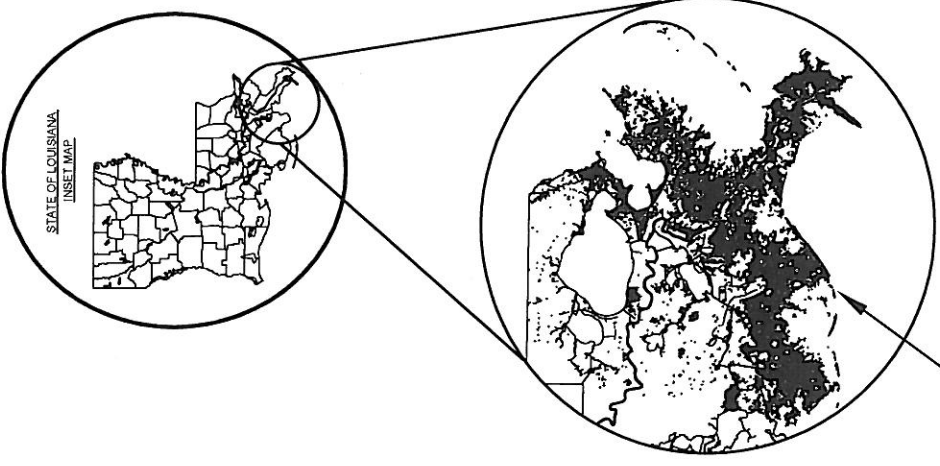
**SEGMENT W13 - EAST TIMBALIER & WEST BELLE PASS BARRIER HEADLAND**

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	PLAN VIEWS
6-9	PROFILES



PROJECT LOCATION



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W13 TITLE SHEET
DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:	DATE: 6/22/10
DRAWN BY:	FEDERAL PROJECT NUMBER:	SHEET 1 OF 9	

VOLUME = 1.37 M CY  
 AREA = 195 ACRES  
 BERM LENGTH = 16,330 FT.

P.O.C.  
 X = 3618284.5  
 Y = 218273.4

P.O.I.  
 X = 3621784.4  
 Y = 217730.6

P.O.I.  
 X = 3623284.5  
 Y = 217151.3

WEST BELLE PASS  
 BARRIER HEADLAND

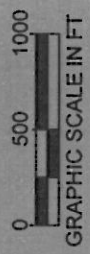
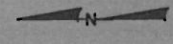
LANDWARD TOE OF BERM

BASELINE

SEAWARD TOE OF BERM

SLOPE BREAK

51+50



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W13  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

APPROVED BY:

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

DATE: 6/19/10

SHEET 2 OF 9

**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE SHEET 3

E 3624000

E 3620000

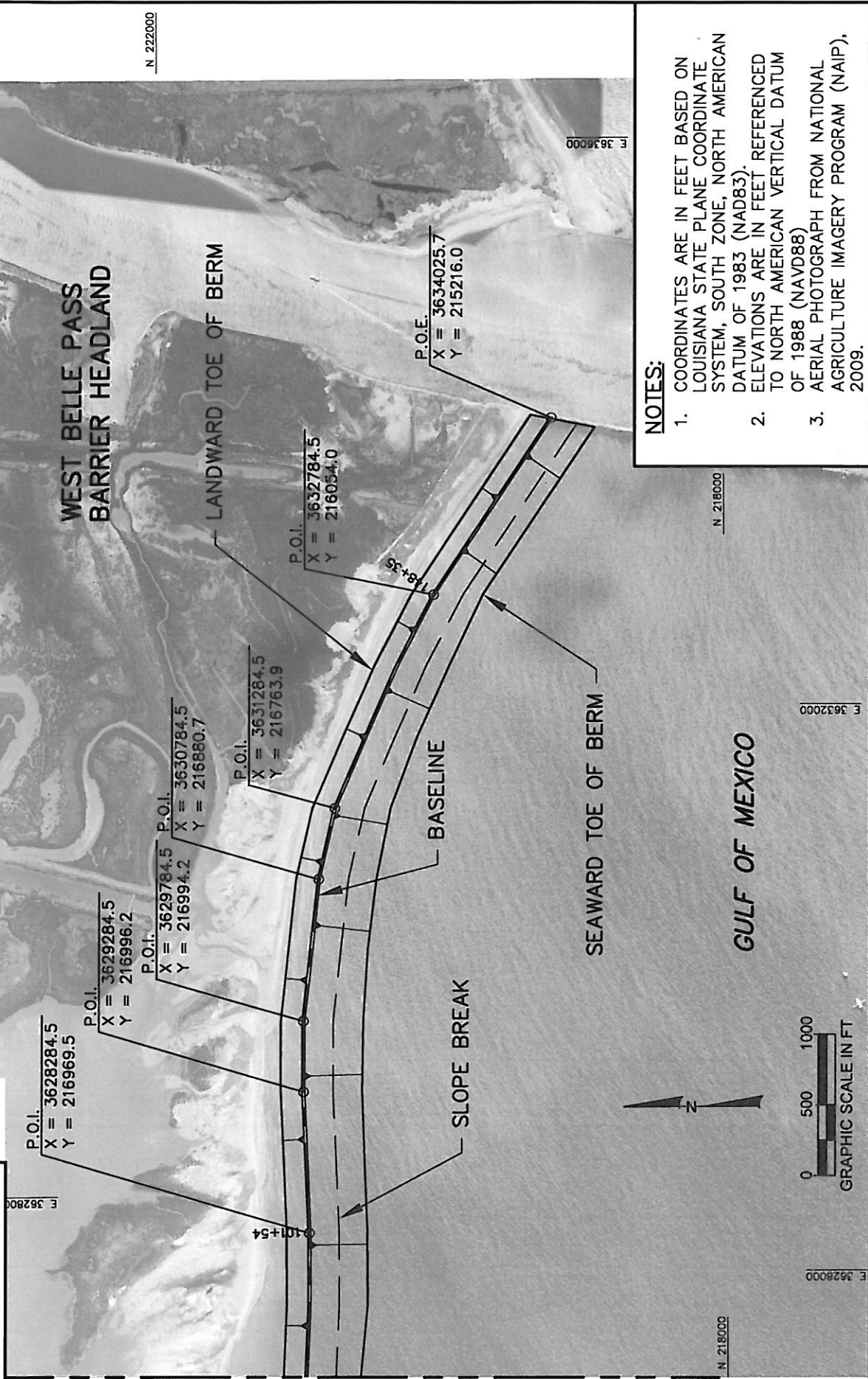
E 3624000

N 222000

N 222000

N 218000

VOLUME = 1.37 M CY  
 AREA = 195 ACRES  
 BERM LENGTH = 16,330 FT.



MATCHLINE SHEET 2

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W13 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10
STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	DATE: 6/19/10	SHEET 3 OF 9

VOLUME = 3.10 M CY  
 AREA = 371 ACRES  
 BERM LENGTH = 17,120 FT.

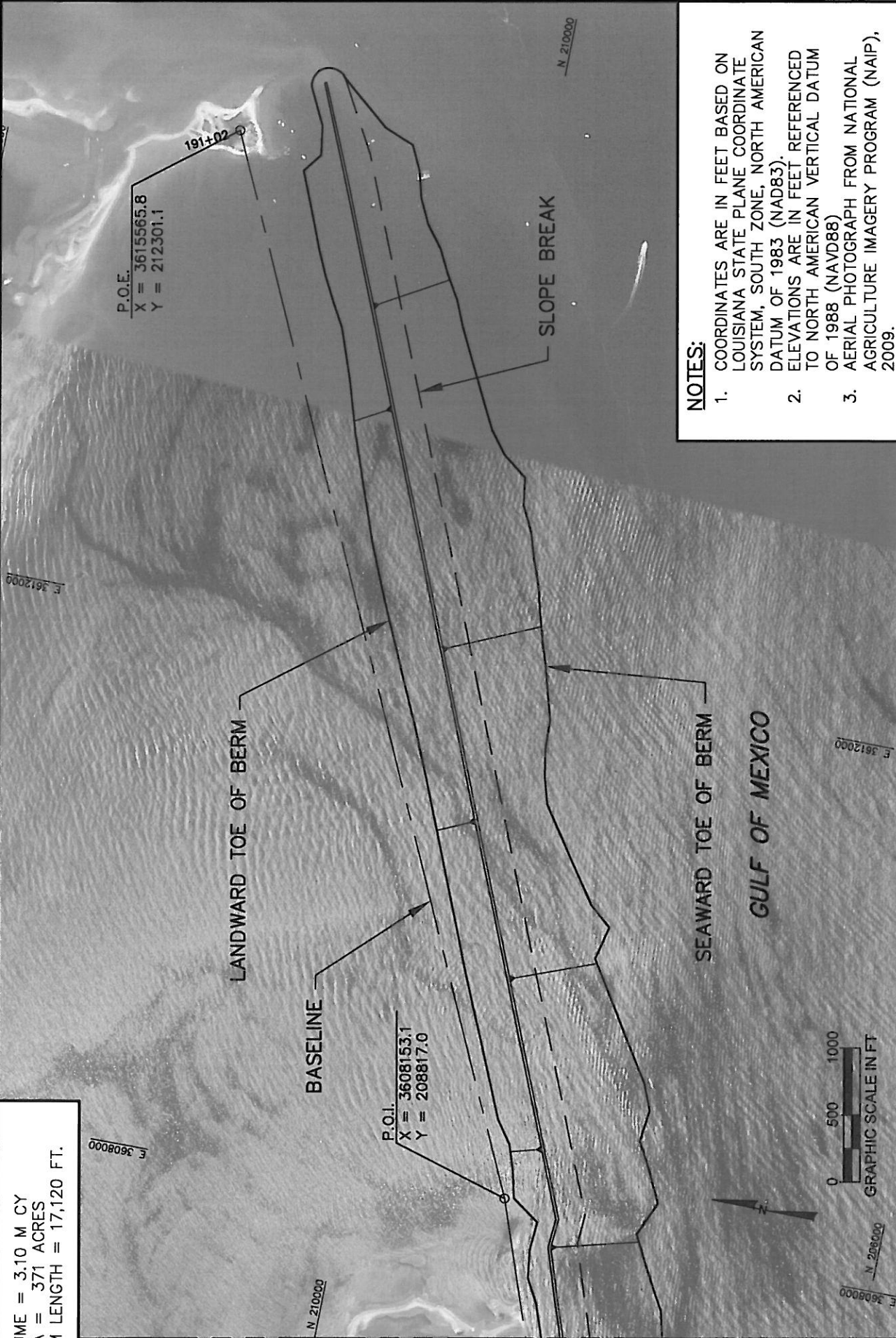


- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W13 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10 SHEET 4 OF 9
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	



VOLUME = 3,110 M CY  
 AREA = 371 ACRES  
 BERM LENGTH = 17,120 FT.

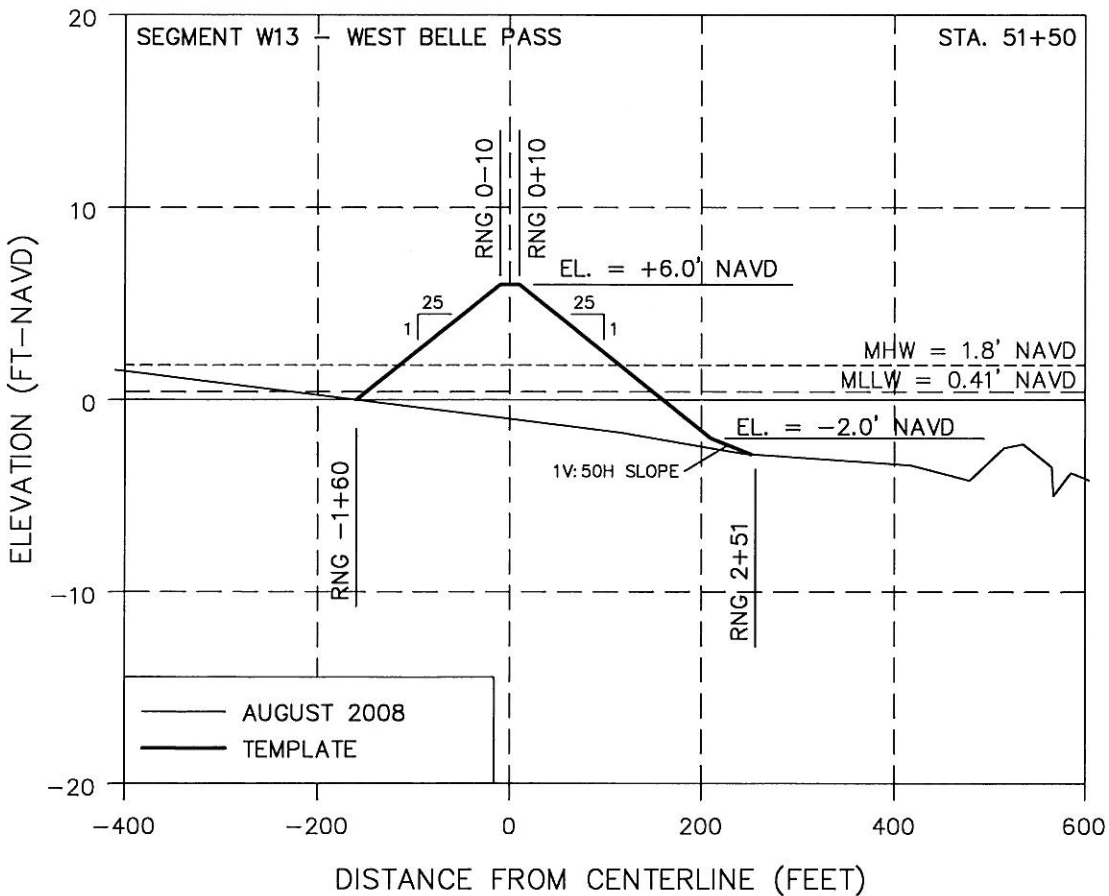
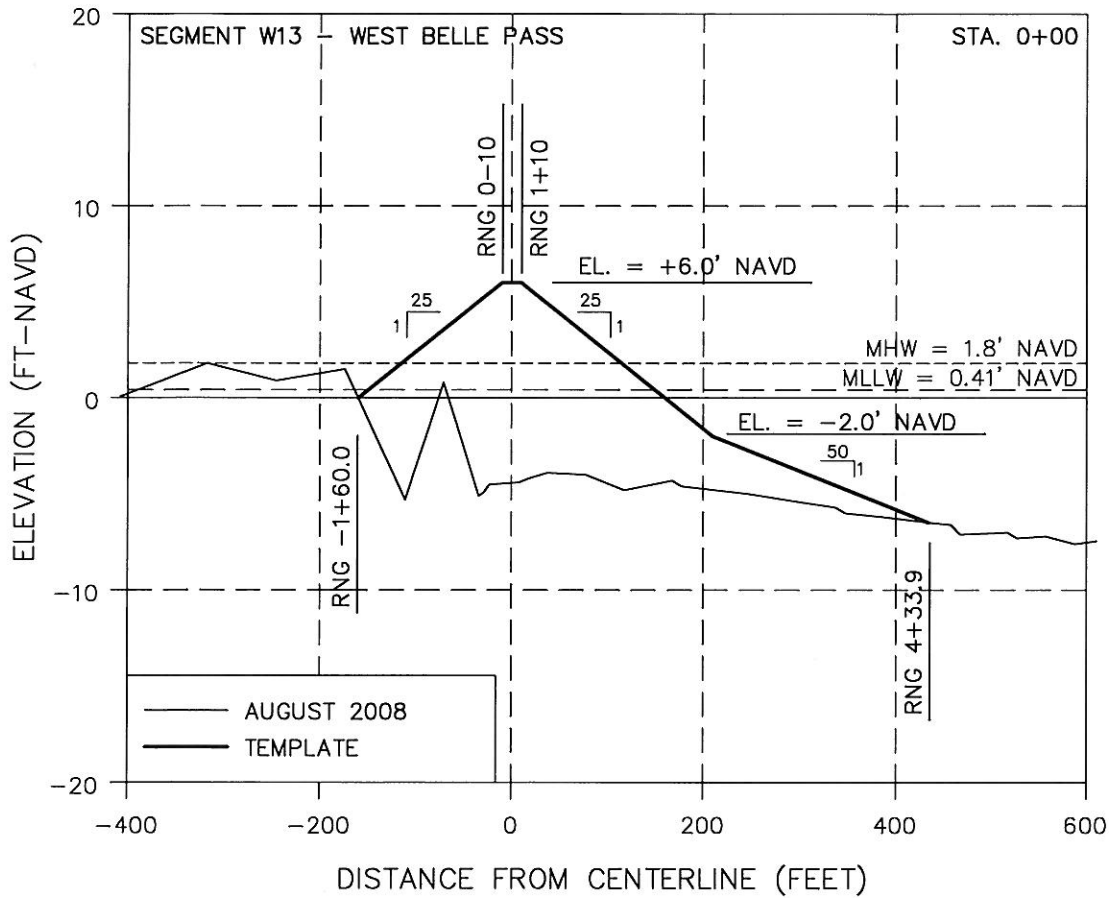


MATCHLINE SHEET 4

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
2. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W13 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10 SHEET 5 OF 9
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	



SEGMENT W13  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/22/2010

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

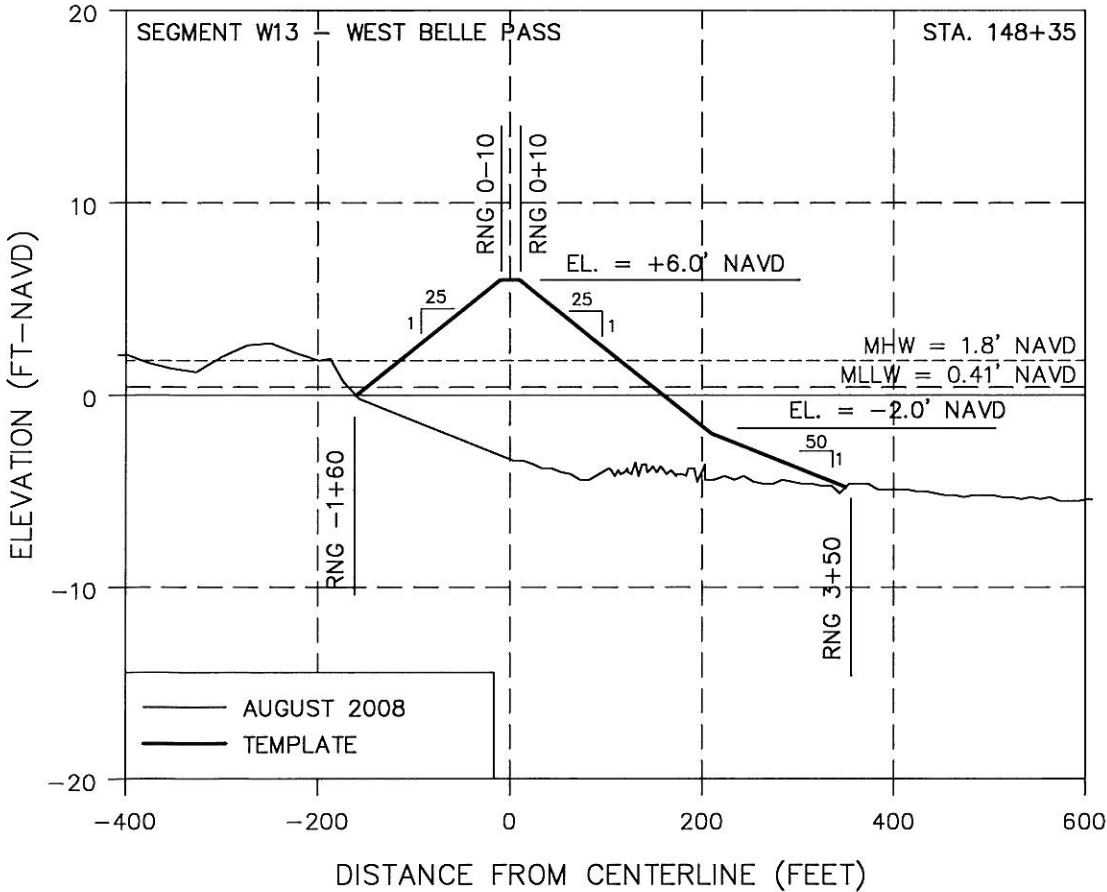
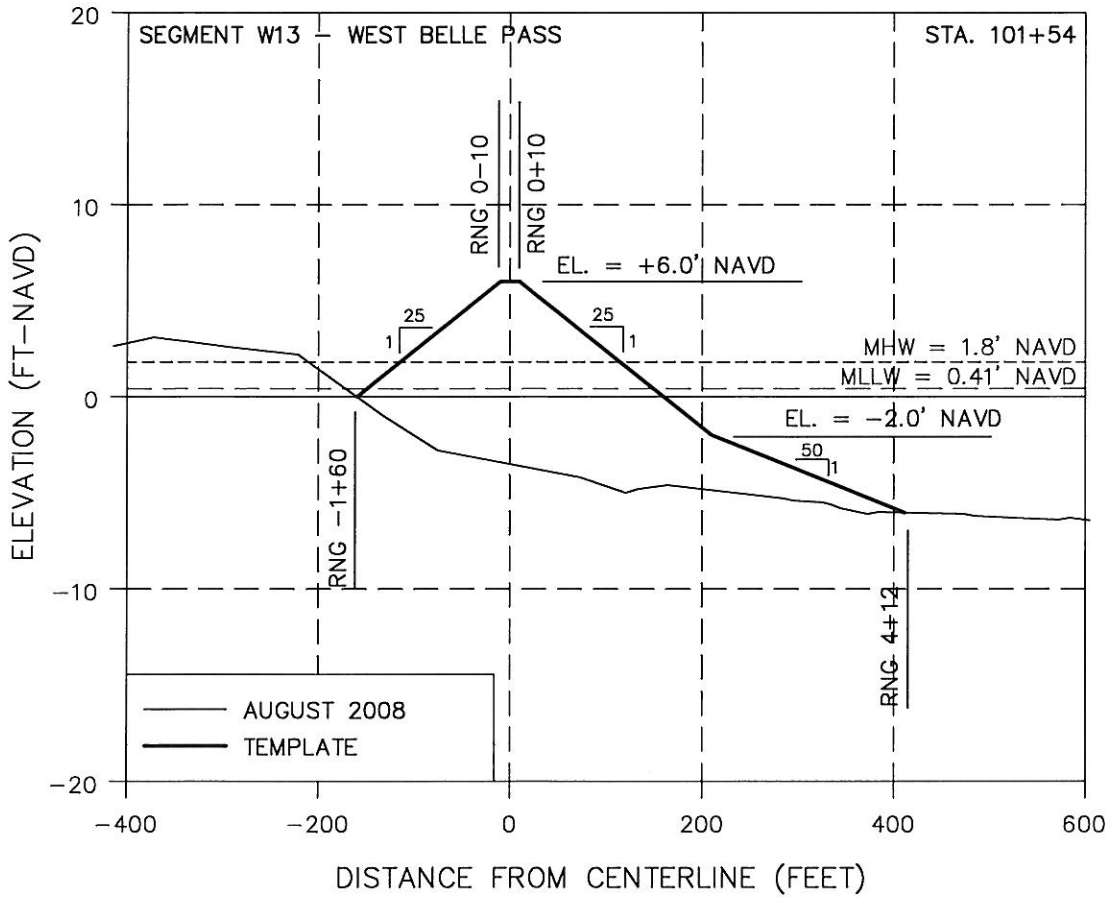
SHEET 6 OF 9

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W13  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/22/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

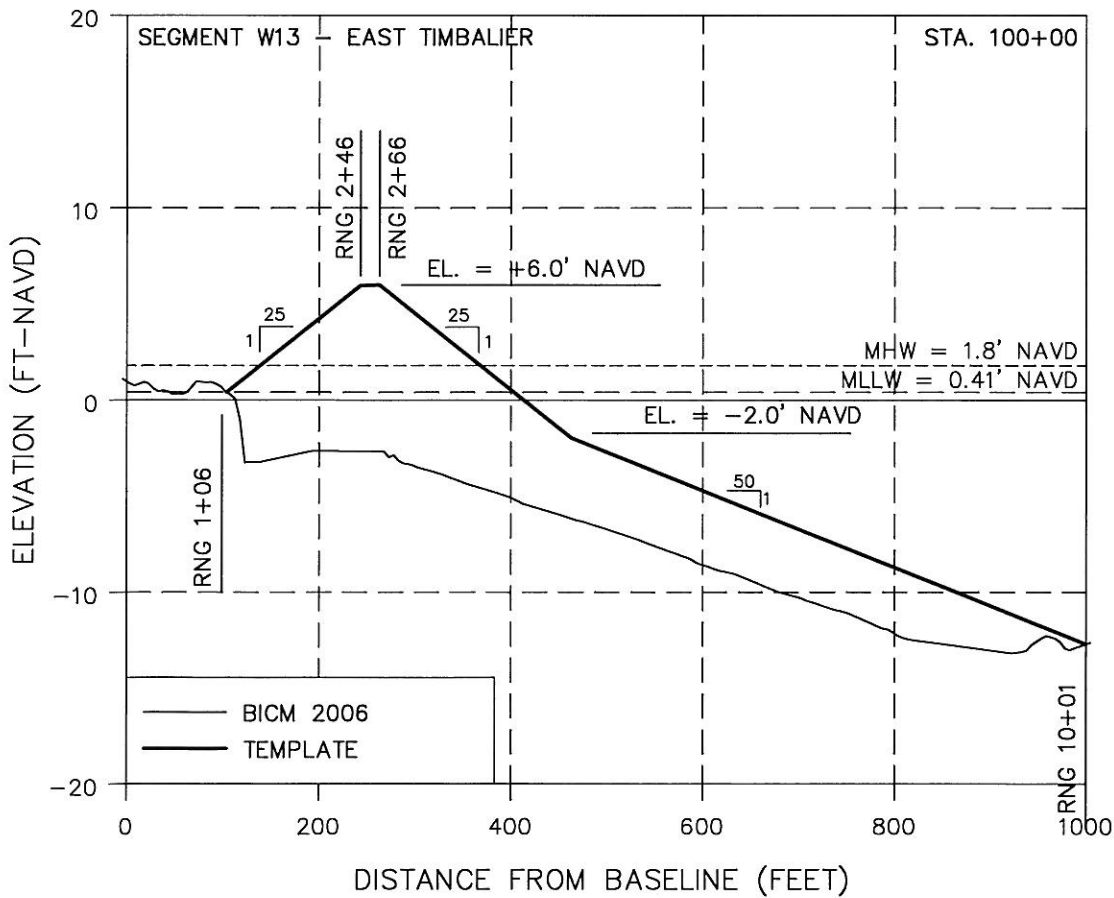
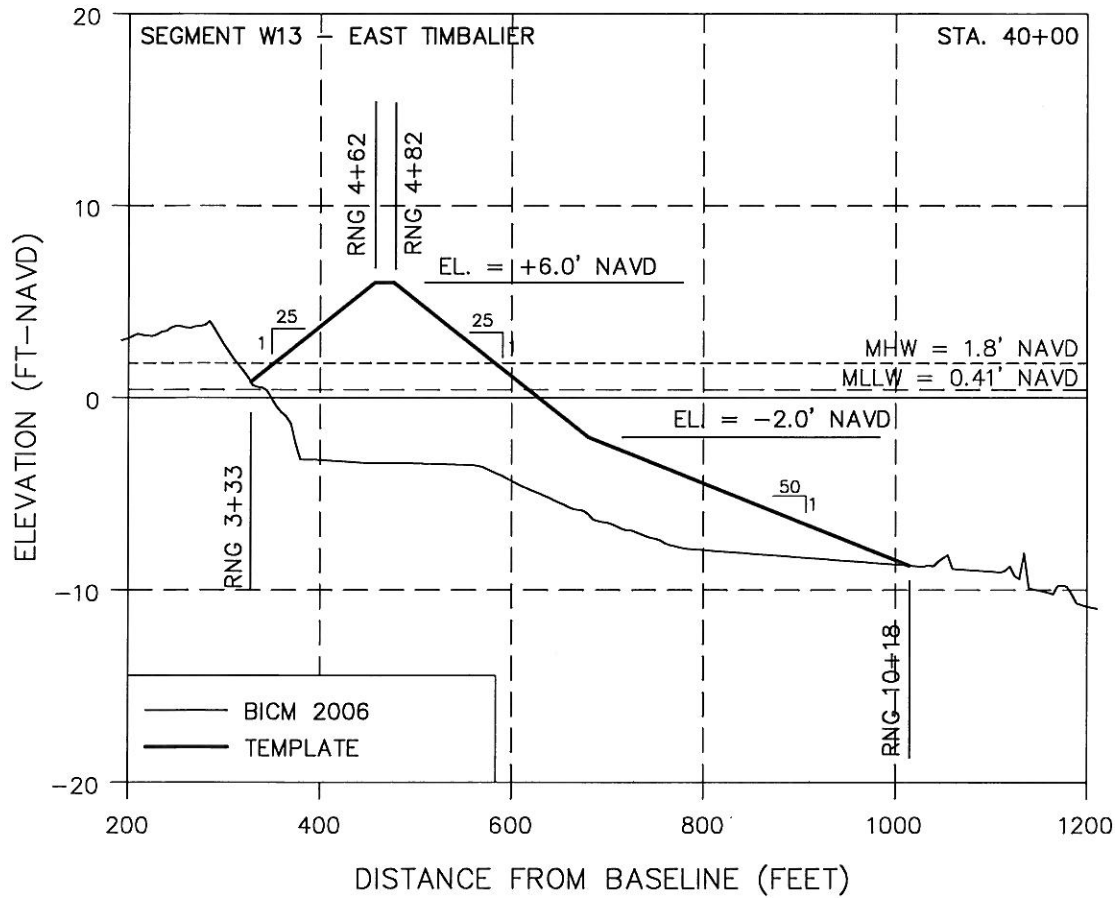
SHEET 7 OF 9

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W13  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/22/10

SHEET 8 OF 9

STATE PROJECT NUMBER:

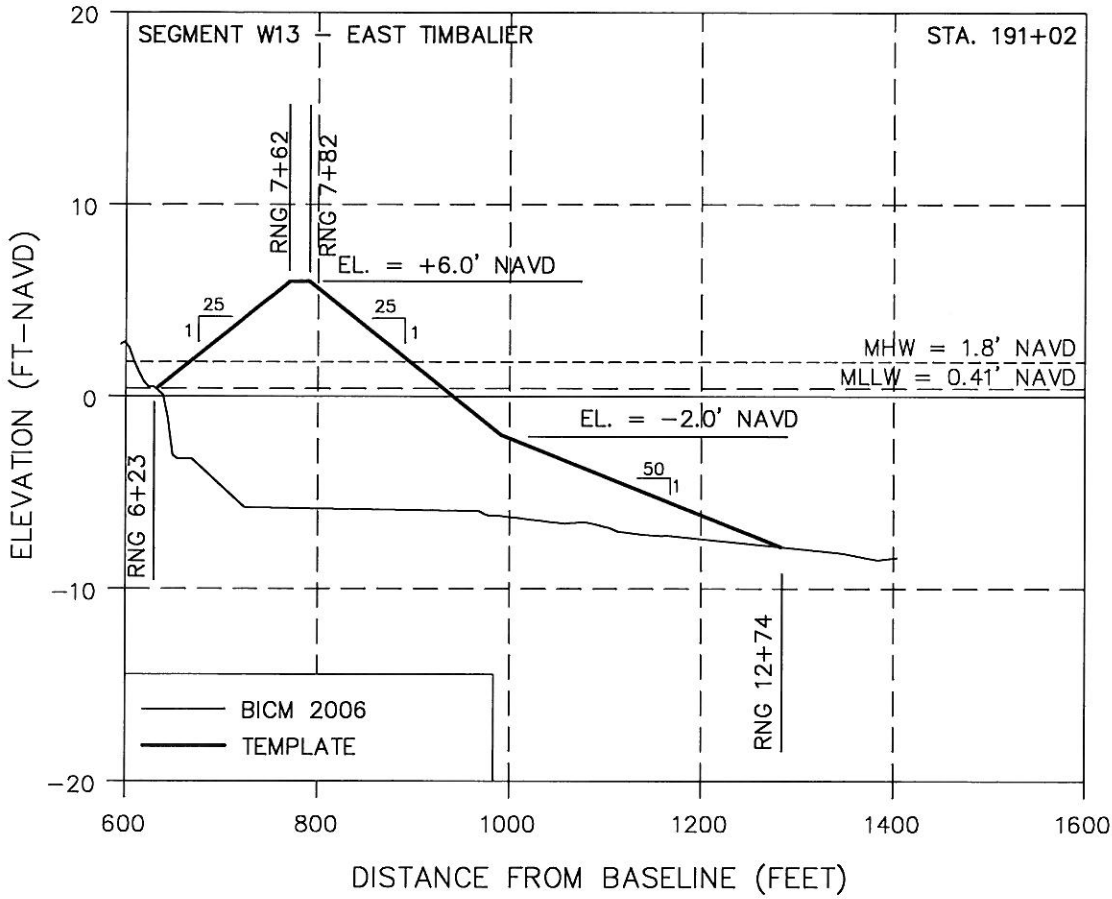
FEDERAL PROJECT NUMBER:

DESIGNED BY:

APPROVED BY:

DRAWN BY:

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SEGMENT W13 PROFILES	BARRIER ISLAND DEFENSE	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 6/22/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 9 OF 9	FEDERAL PROJECT NUMBER:	APPROVED BY:	APPROVED BY:

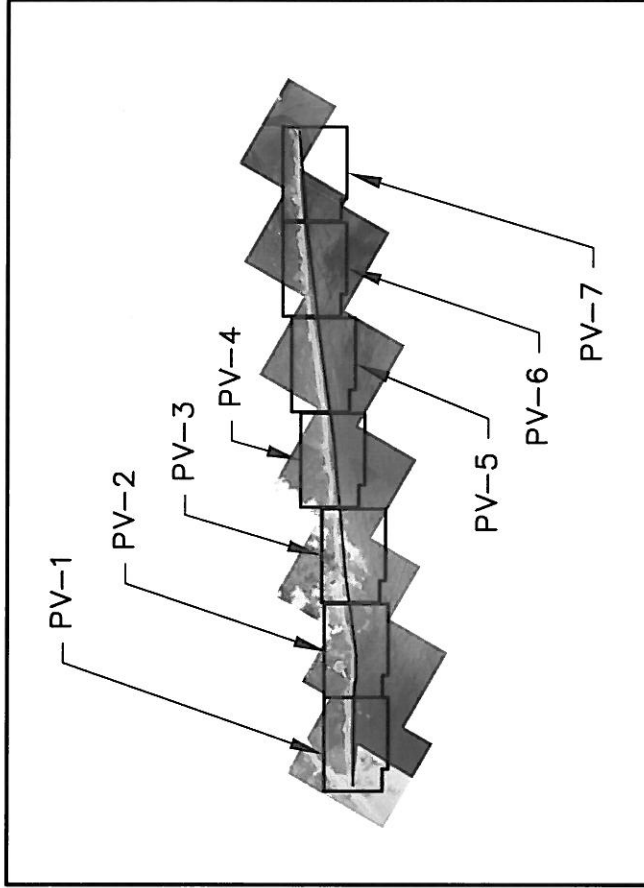
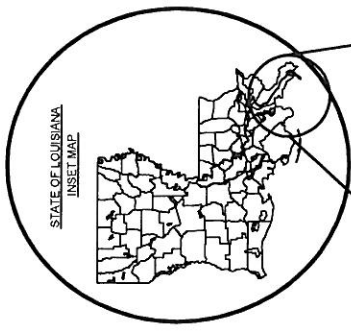
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STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W14  
 CAMINADA HEADLAND

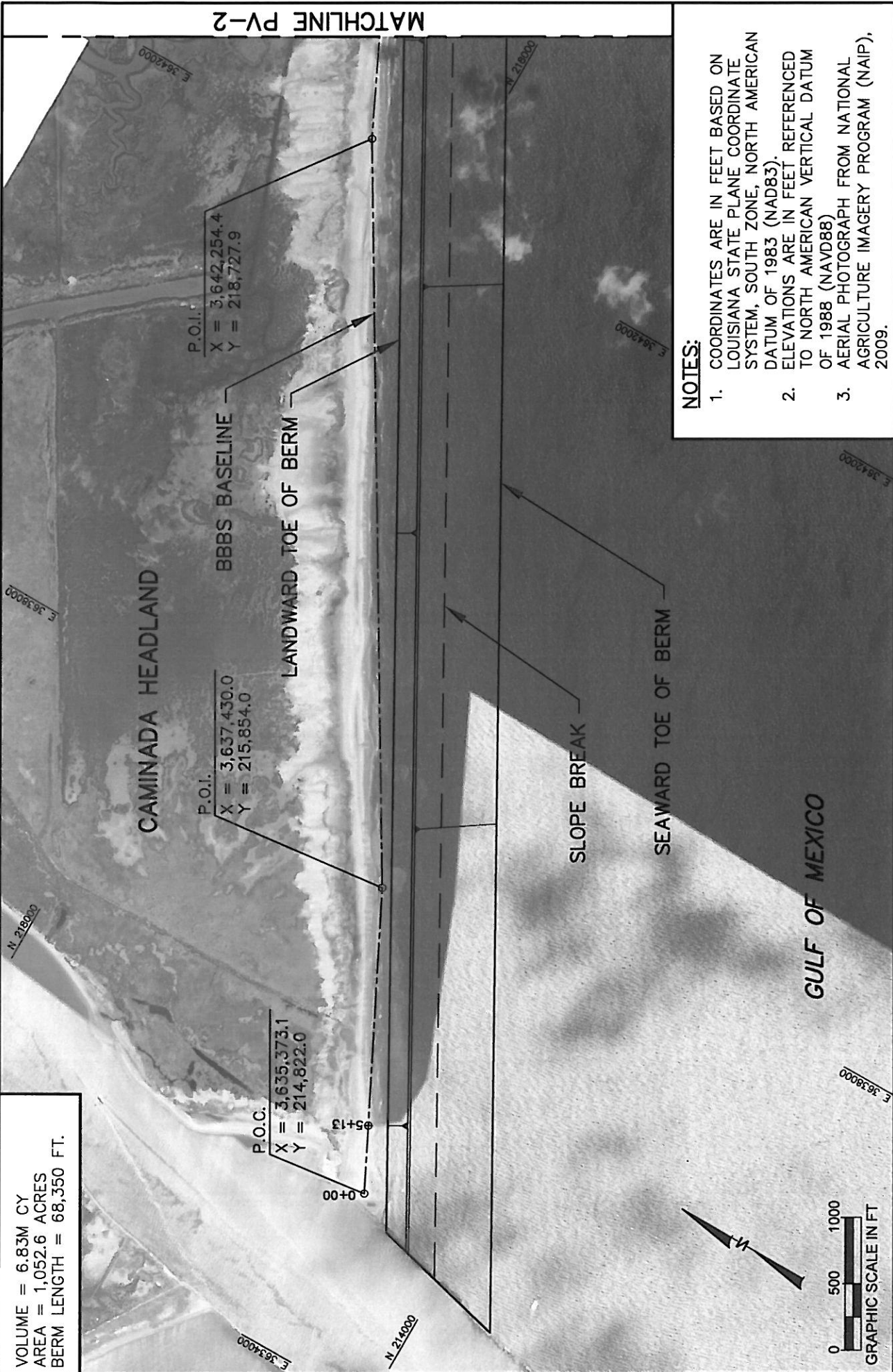
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-8	PLAN VIEWS
9-12	PROFILES



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	SEGMENT W14 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/22/10
FEDERAL PROJECT NUMBER:			SHEET 1 OF 12

VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.



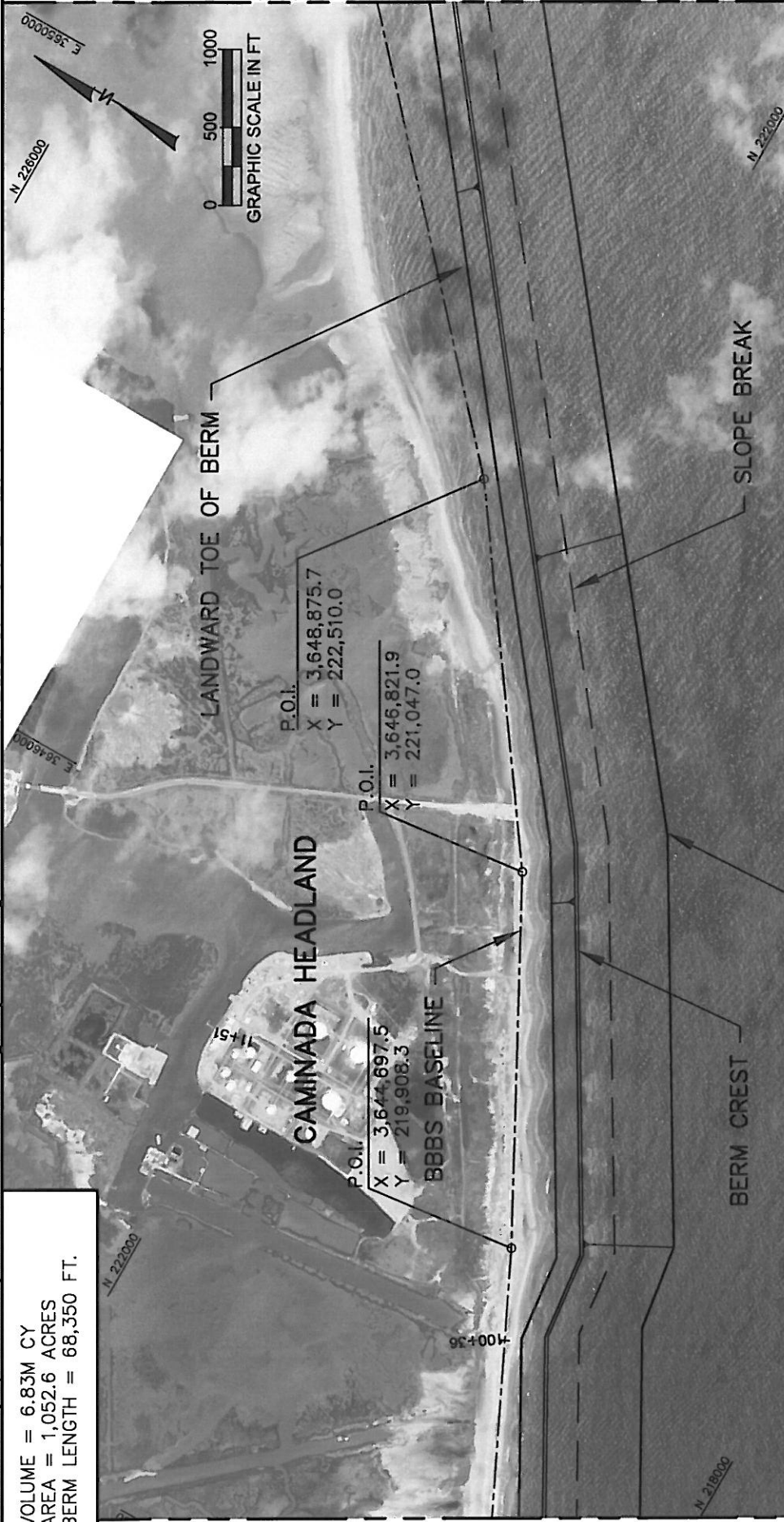
MATCHLINE PV-2

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 12

VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.



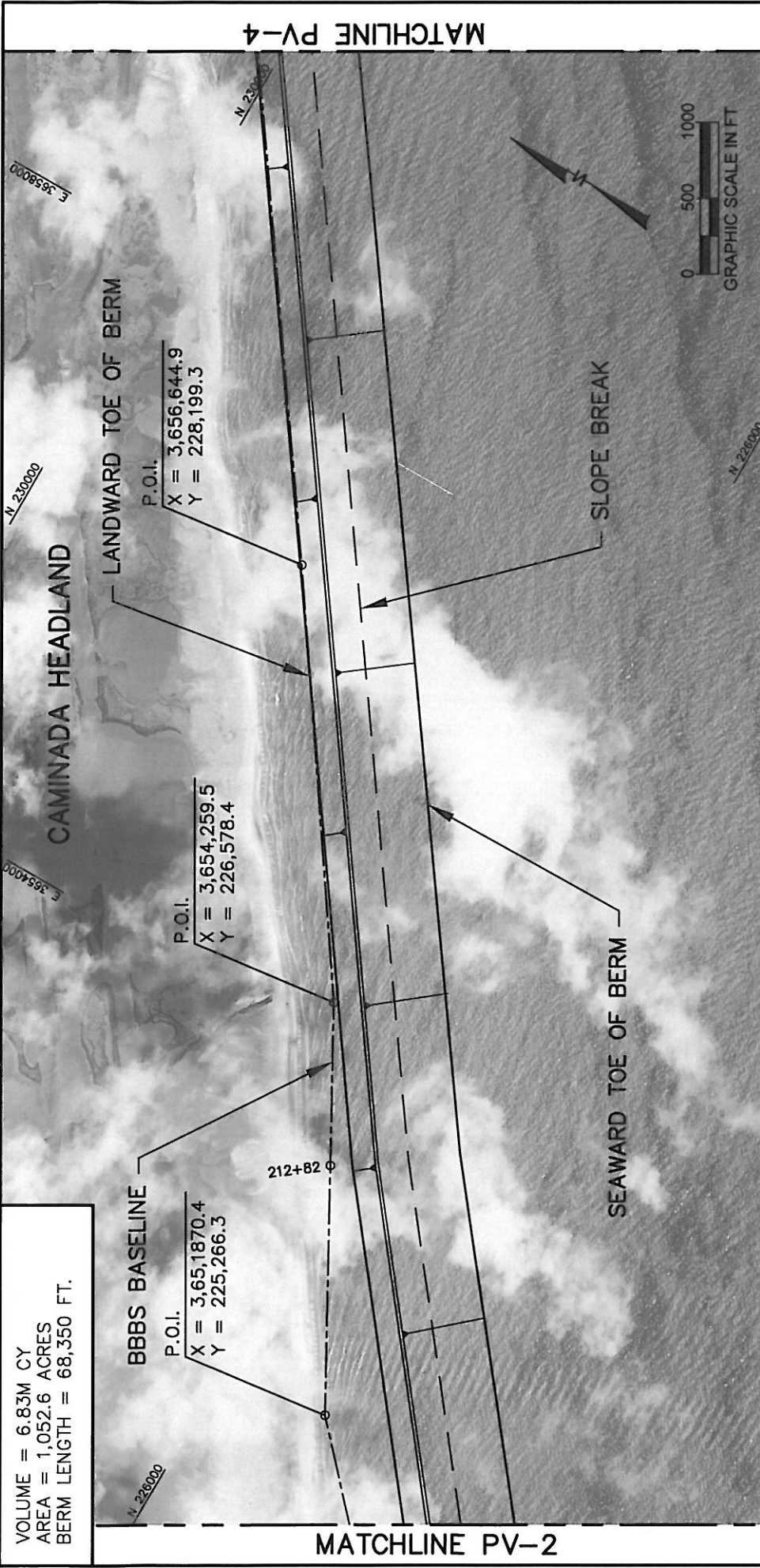
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE PLAN VIEW	SEGMENT W14 DATE: 6/19/10 SHEET 3 OF 12
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:



VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.

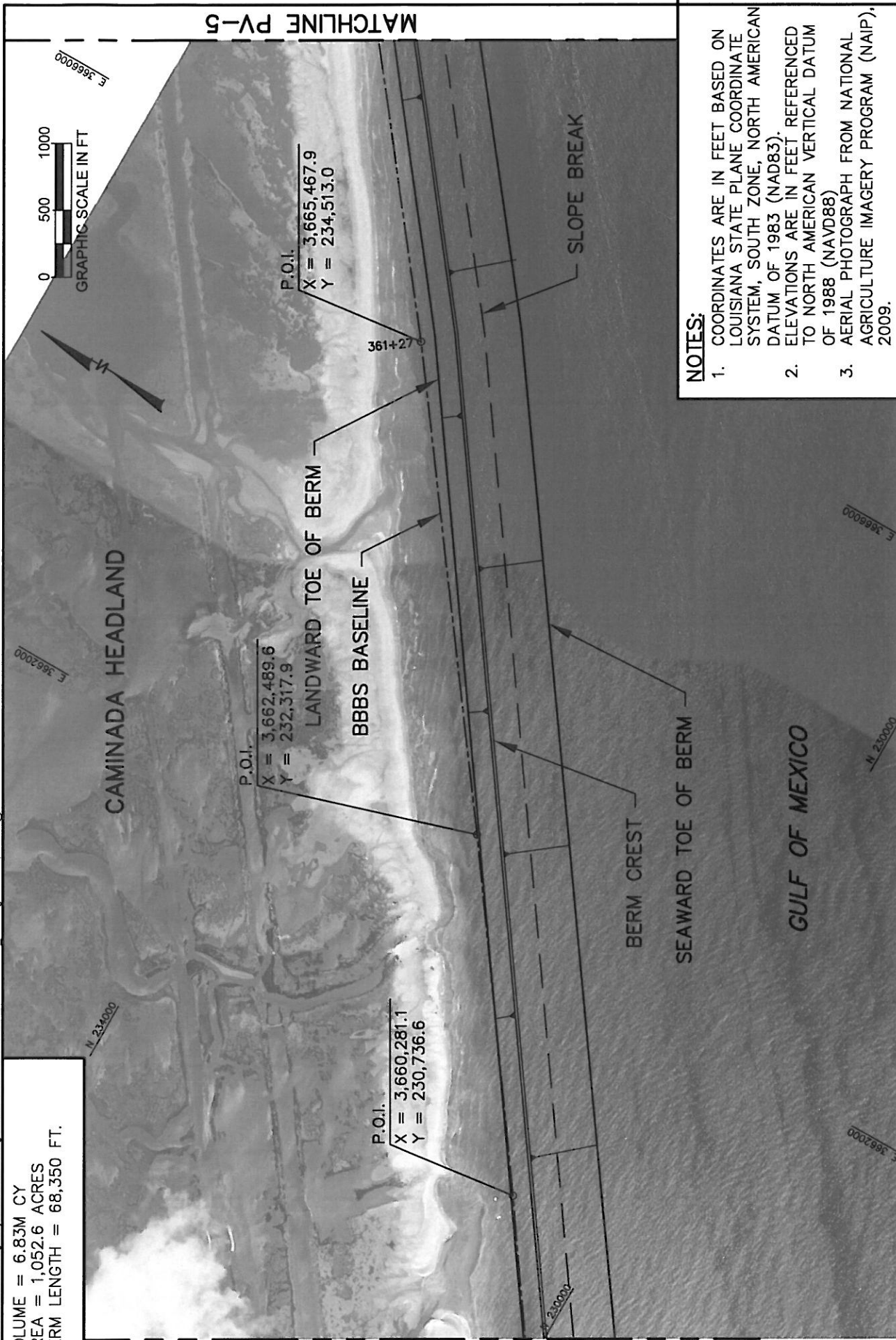


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 6/19/10
APPROVED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 4 OF 12

VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.



**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-3

MATCHLINE PV-5

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 5 OF 12

VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.

MATCHLINE PV-4

N 238000

P.O.I.

X = 3,669,539.8  
 Y = 237,692.8

LANDWARD TOE OF BERM

CAMINADA HEADLAND

P.O.I.

X = 3,673,605.0  
 Y = 240,709.8

BBBS BASELINE

467+370

SLOPE BREAK

SEAWARD TOE OF BERM

GULF OF MEXICO



GRAPHIC SCALE IN FT.  
 0 500 1000

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

MATCHLINE PV-6

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W14  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

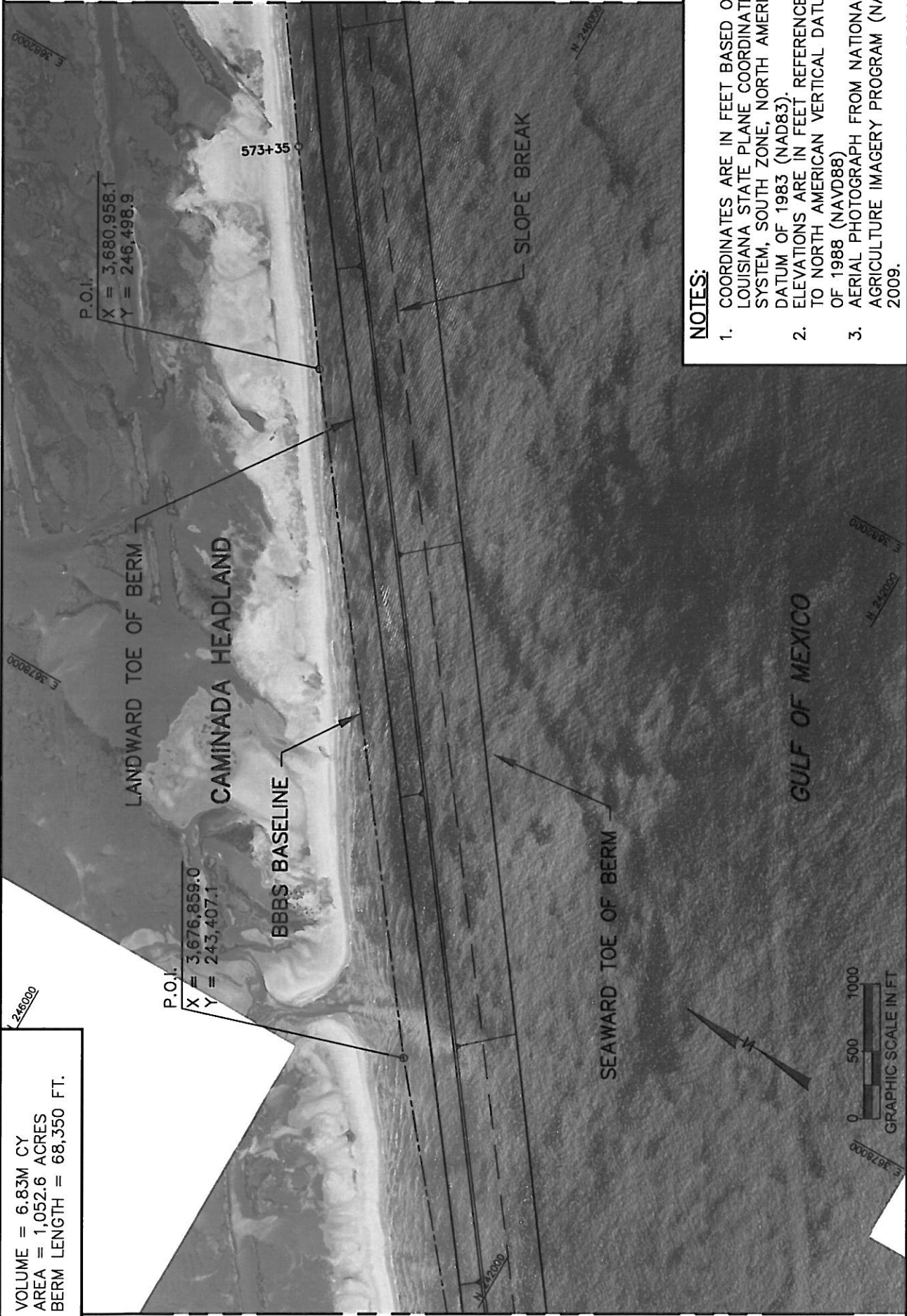
APPROVED BY:

STATE PROJECT NUMBER:

DATE: 6/19/10

FEDERAL PROJECT NUMBER:  
 SHEET 6 OF 12

VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.

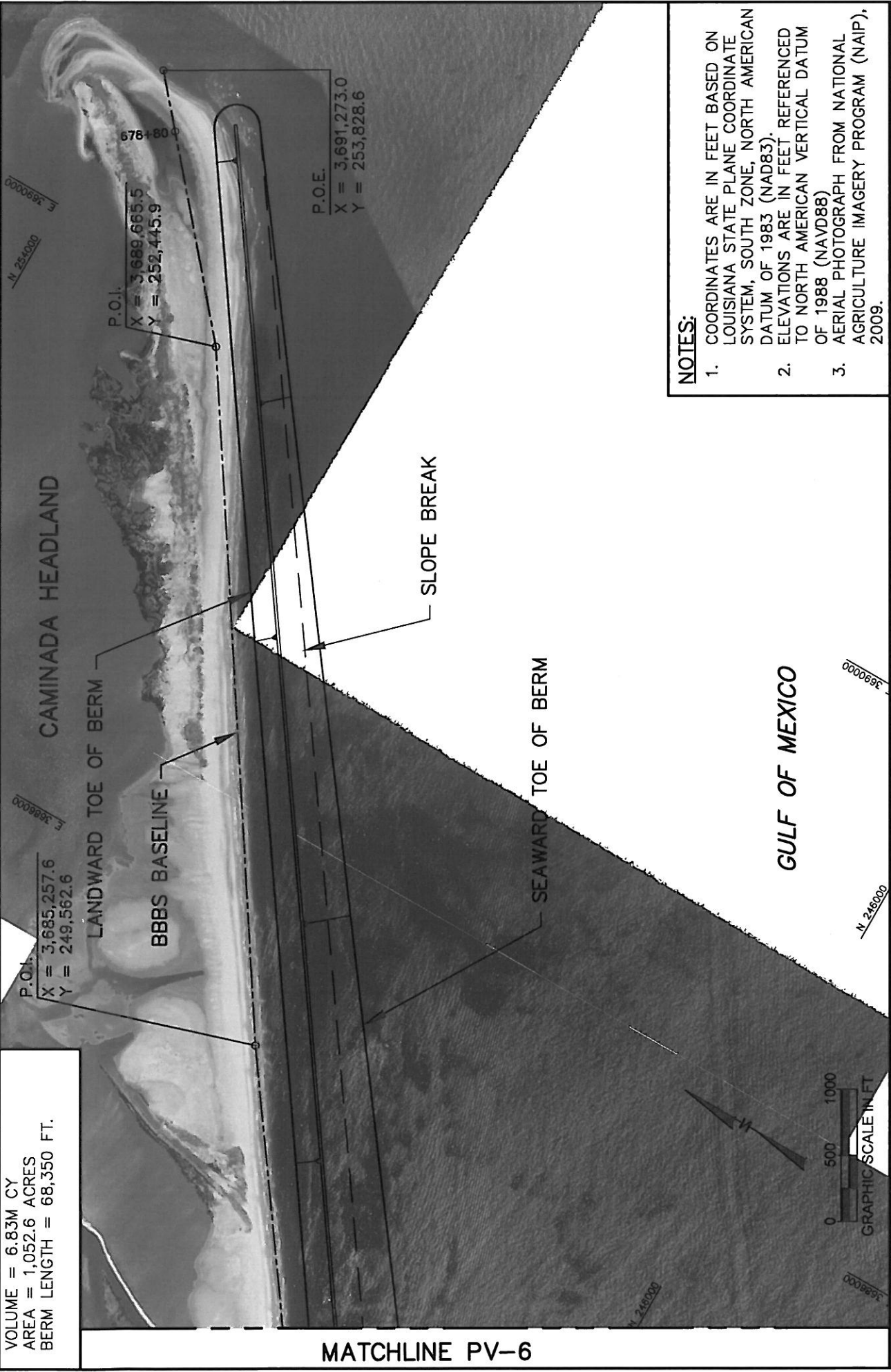


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
DATE: 6/19/10			SHEET 7 OF 12

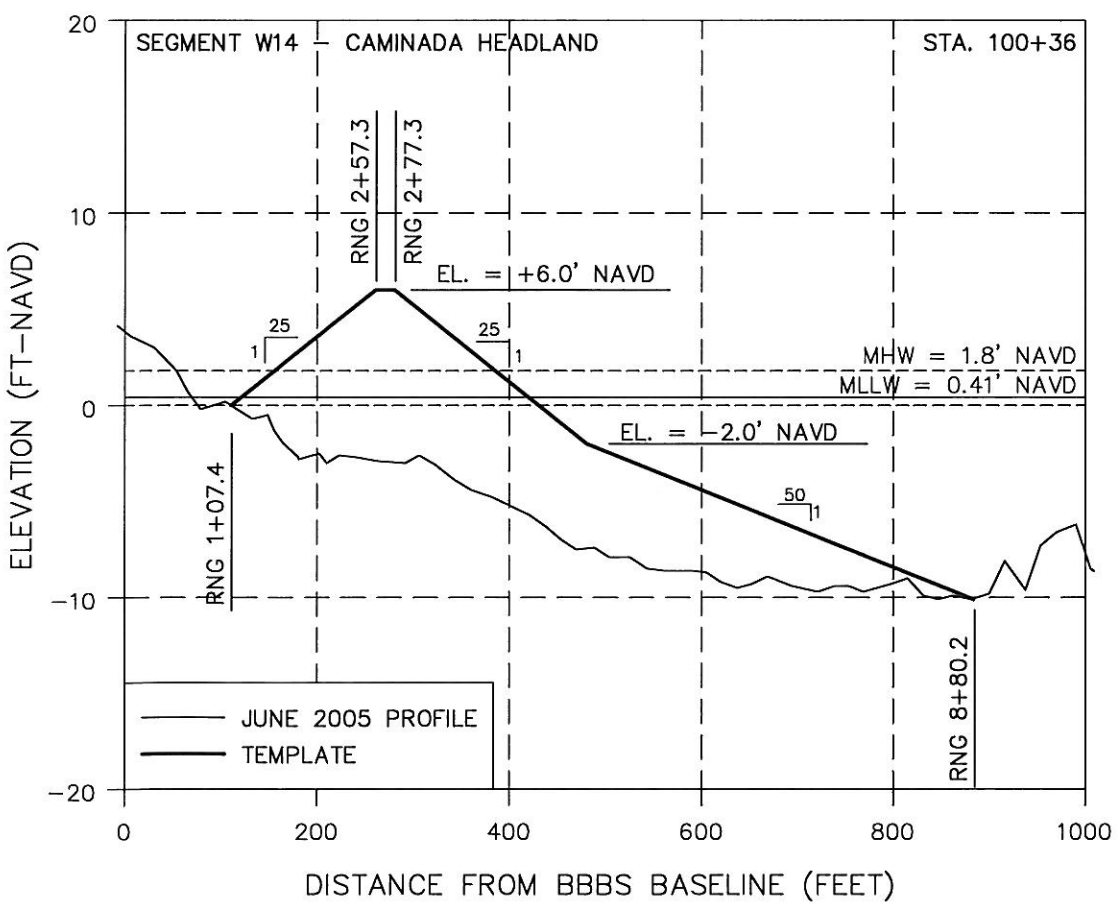
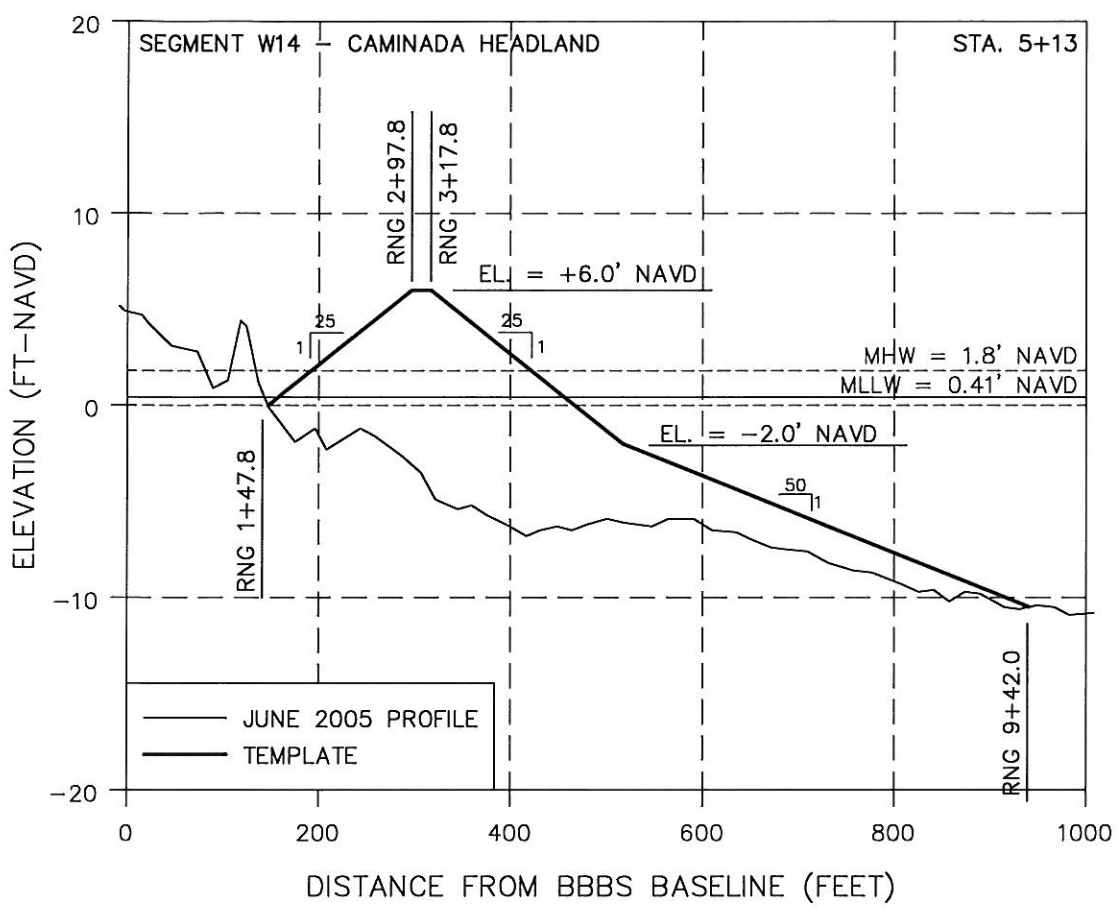
VOLUME = 6.83M CY  
 AREA = 1,052.6 ACRES  
 BERM LENGTH = 68,350 FT.



- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/19/10 SHEET 8 OF 12

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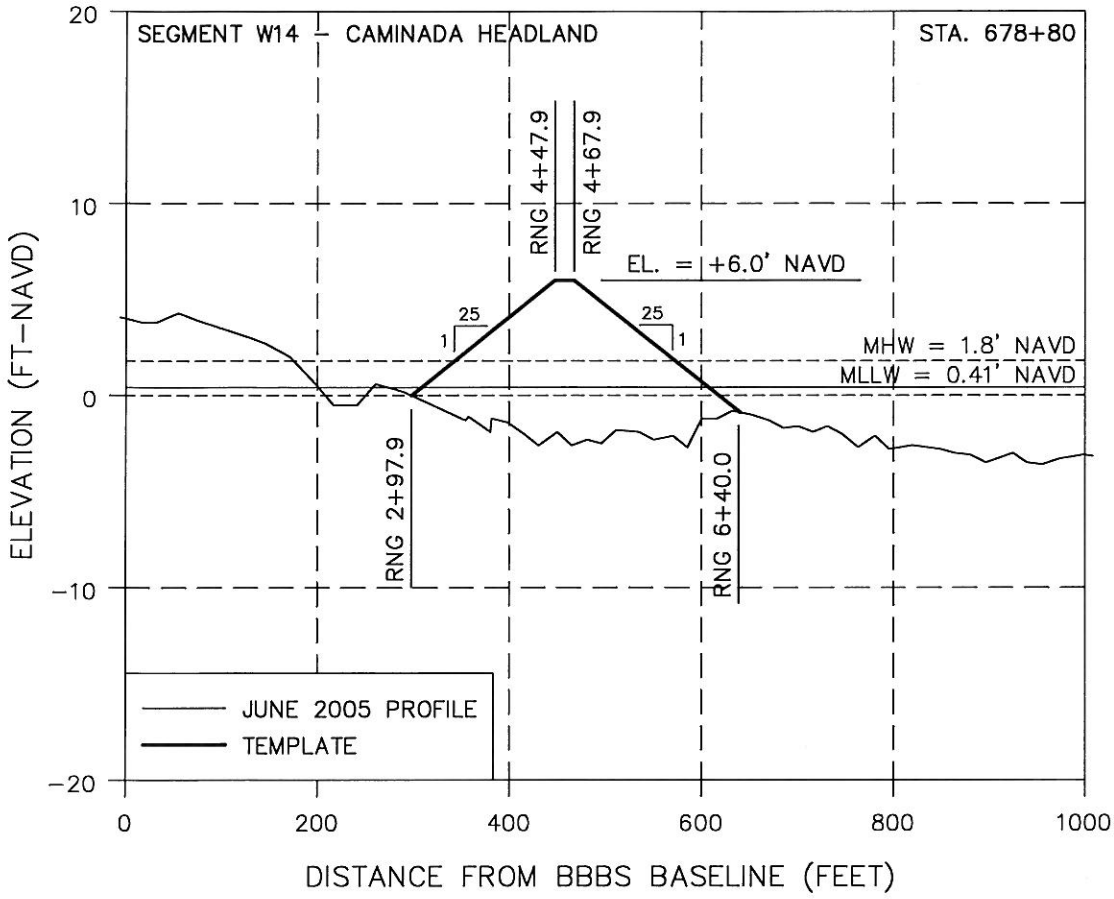
SEGMENT W14 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 6/19/2010	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 9 OF 12	FEDERAL PROJECT NUMBER:	APPROVED BY:	APPROVED BY:







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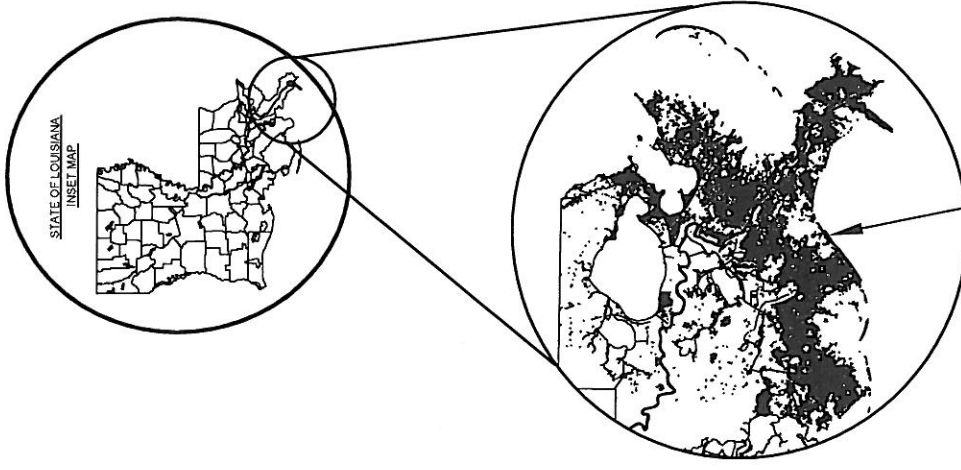
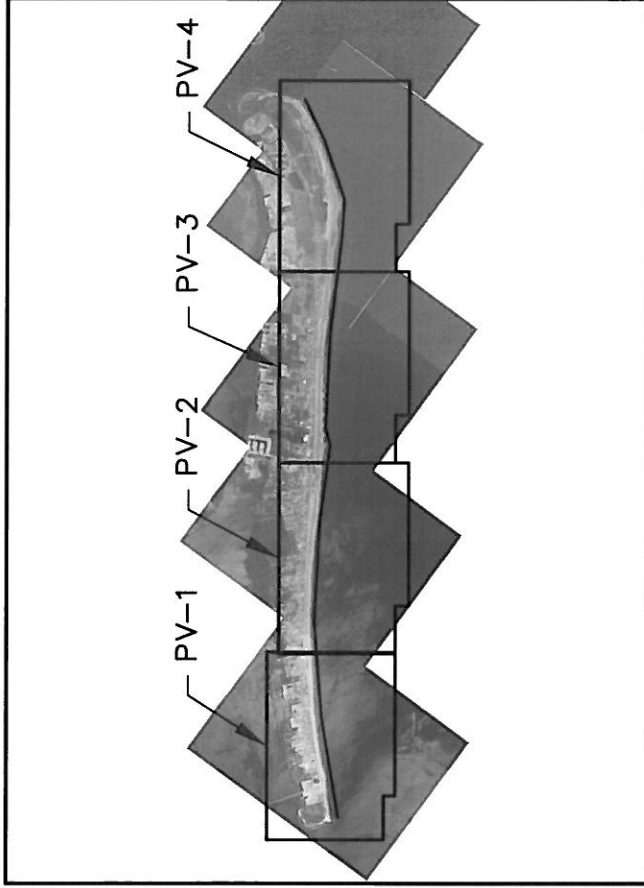
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W14 PROFILES
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: SHEET 12 OF 12

**STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH**

**SEGMENT W15  
GRAND ISLE**

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	PLAN VIEWS
6-10	PROFILES



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W15 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 6/22/10
		STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	SHEET 1 OF 10

VOLUME = 2.33M CY  
 AREA = 388.4 ACRES  
 BERM LENGTH = 37,690 FT.



MATCHLINE PV-2

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE SEGMENT W15 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:
STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 2 OF 10

VOLUME = 2,33M CY  
 AREA = 388.4 ACRES  
 BERM LENGTH = 37,690 FT.

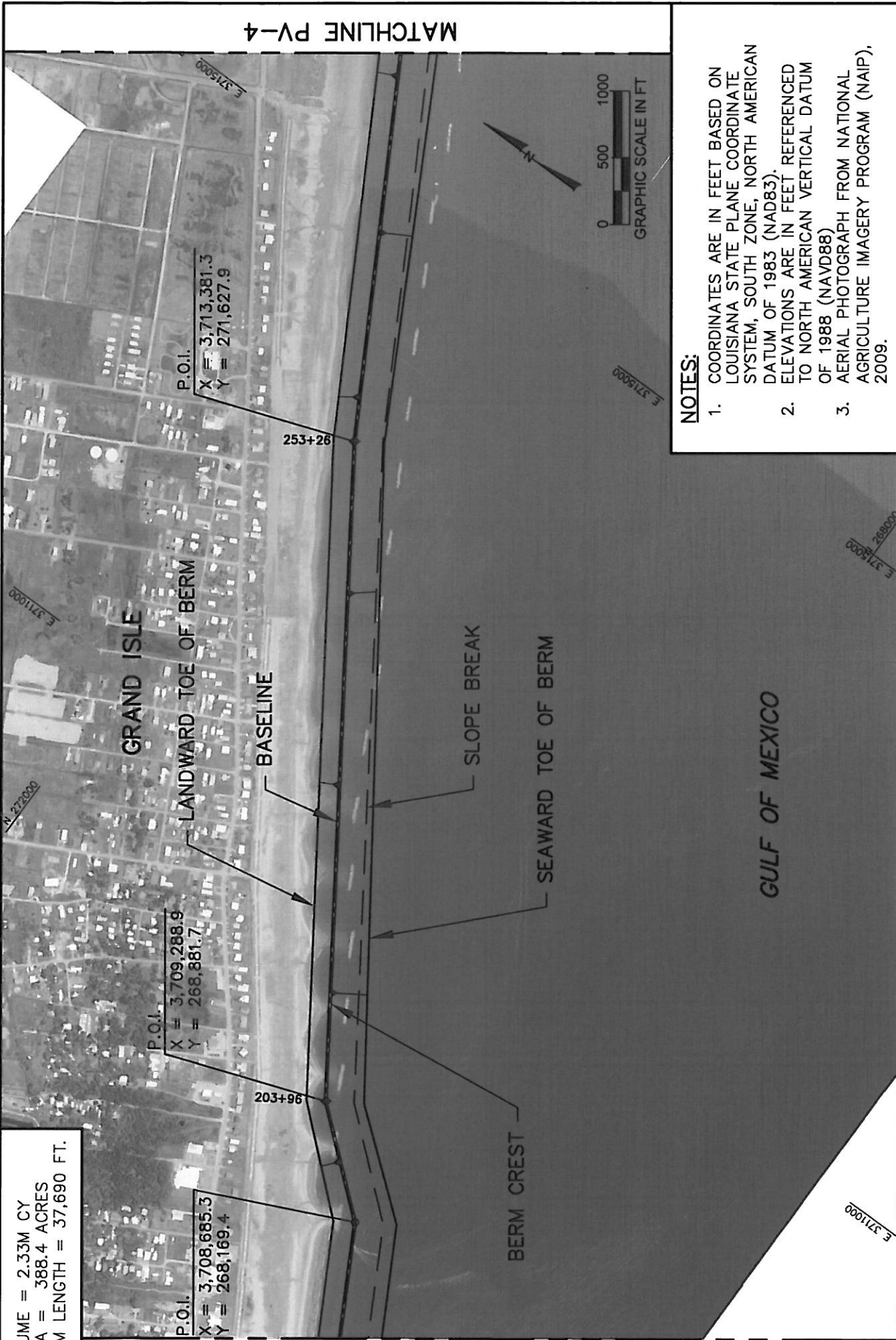


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W15 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 3 OF 10

VOLUME = 2.33M CY  
 AREA = 388.4 ACRES  
 BERM LENGTH = 37,690 FT.

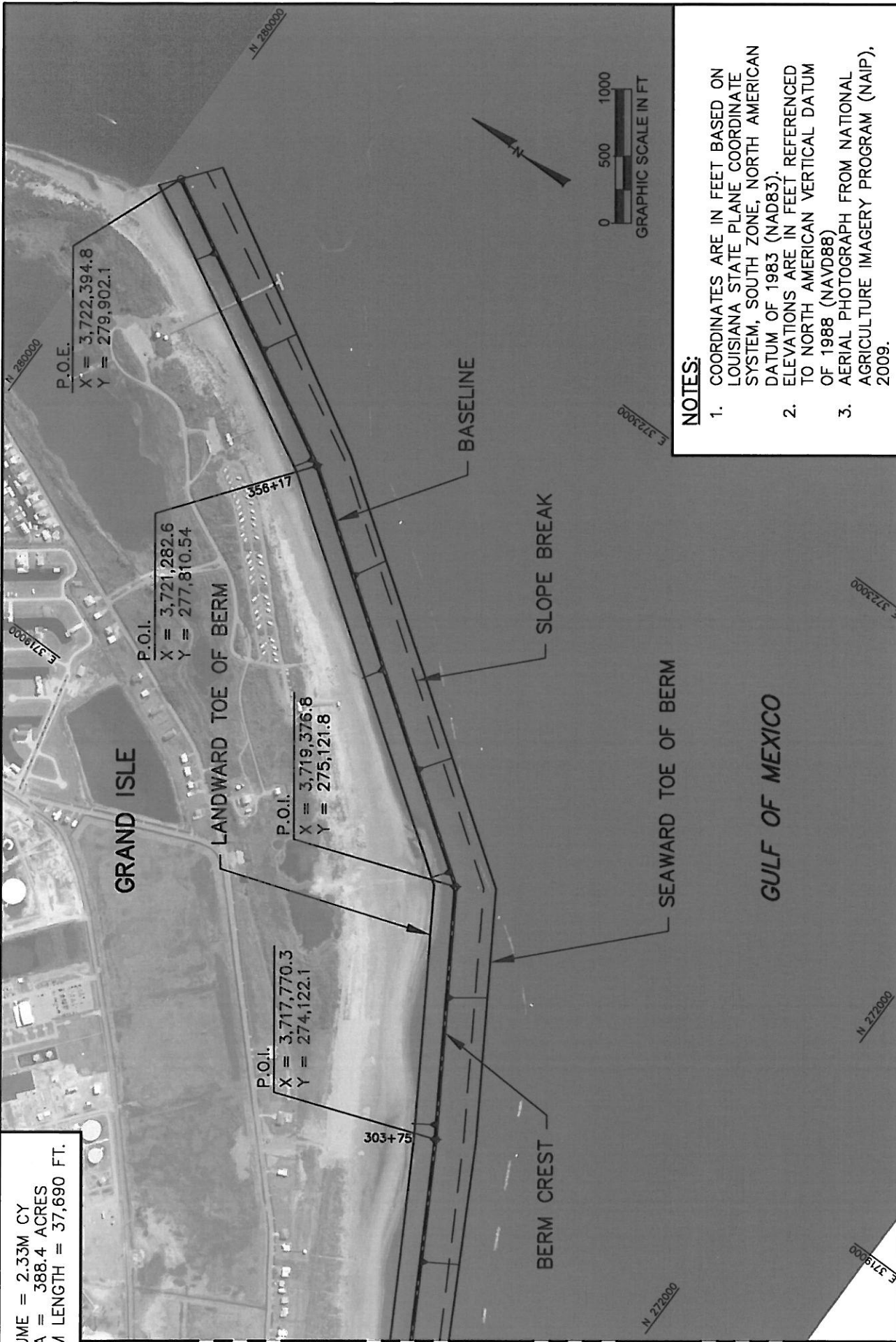


**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W15 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 6/19/10
APPROVED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 4 OF 10

VOLUME = 2.33M CY  
 AREA = 388.4 ACRES  
 BERM LENGTH = 37,690 FT.



MATCHLINE PV-3

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

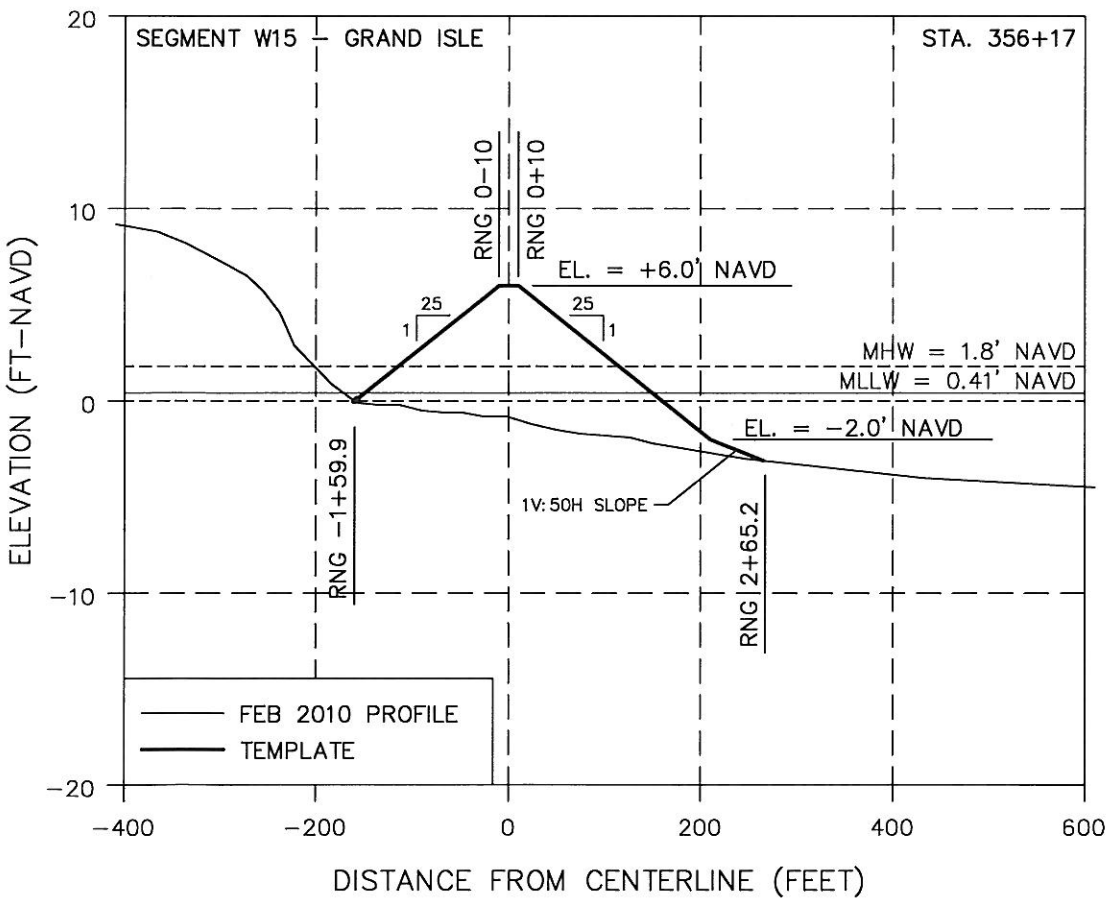
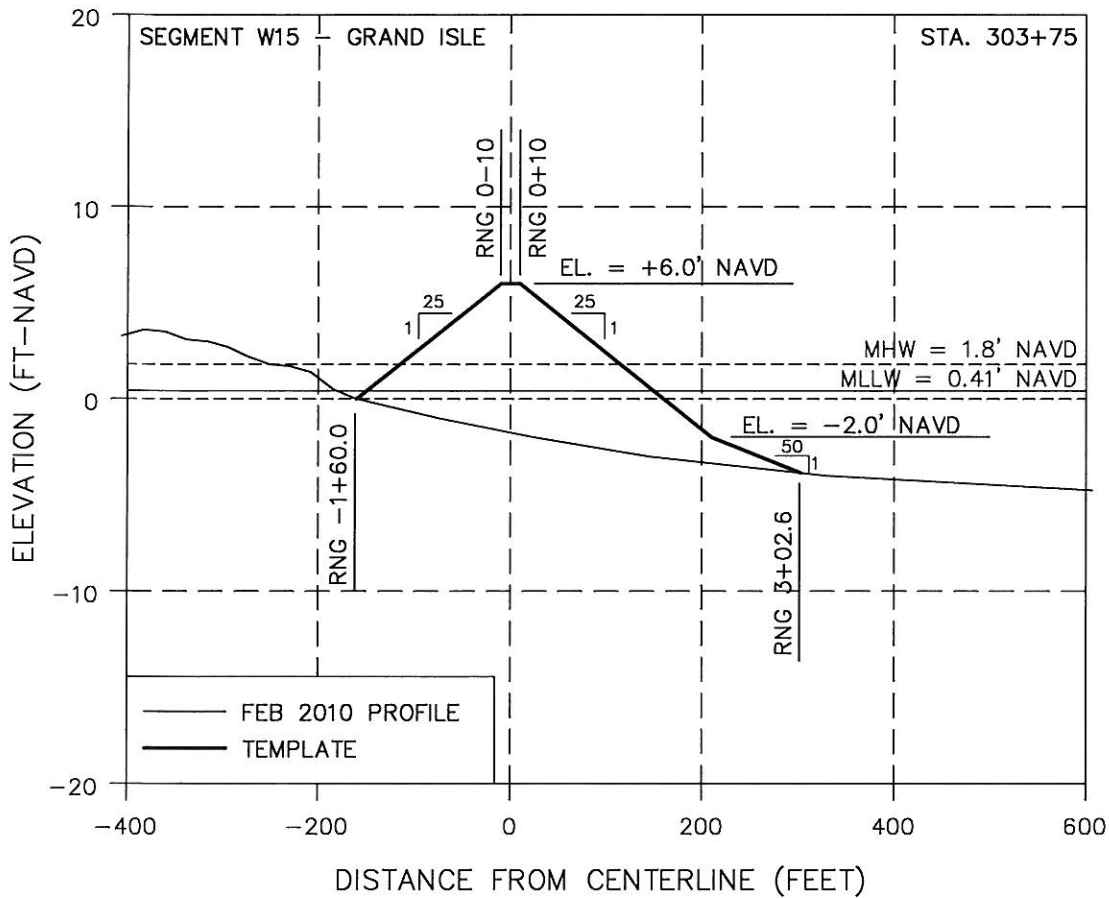
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE SEGMENT W15 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:
STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	DATE: 6/19/10 SHEET 5 OF 10











OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

SEGMENT W15  
 PROFILES

BARRIER ISLAND  
 DEFENSE

DATE:

SHEET 9 OF 10

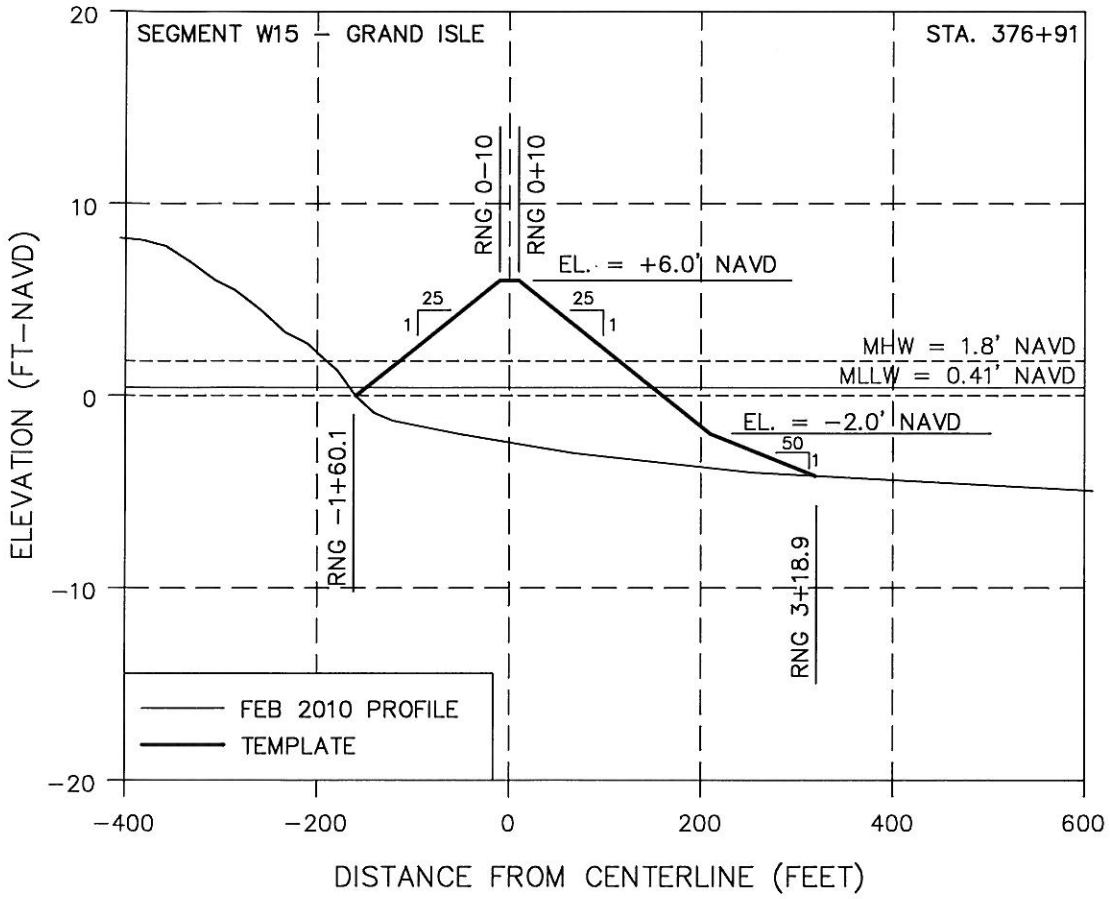
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W15 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE:	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 10 OF 10	FEDERAL PROJECT NUMBER:	APPROVED BY:	

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