

JOINT PUBLIC NOTICE

April 24, 2017

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch
7400 Leake Avenue
New Orleans, Louisiana 70118

State of Louisiana
Department of Environmental Quality
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(504) 862-1217
Project Manager
Kenny Blanke
Kenneth.G.Blanke@usace.army.mil
MVN 2015-0895-CQ

(225) 219-3225
Project Manager
Ms. Elizabeth Hill
WQC Application Number
WQC 170410-04

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Office of Environmental Services, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

EAST TIMBALIER ISLAND AND WEST BELLE HEADLAND RESTORATION PROJECT IN LAFOURCHE PARISH

NAME OF APPLICANT: Coastal Protection and Restoration Authority of Louisiana (CPRA), Attn: Justin Merrifield, Post Office Box 44027, Baton Rouge, Louisiana 70804.

LOCATION OF WORK: Located in Timbalier Bay, near Port Fourchon, Louisiana, located in Lafourche Parish, as shown on the enclosed drawings (Latitude 29.06717 N Longitude -90.32224 W). This project is located in Barataria Basin (East Central Louisiana Coastal HUC 08090301).

CHARACTER OF WORK: The applicant is requesting a Department of the Army permit authorization for the Restoration of East Timbalier Island and West Belle Headland Project (CPRA project TE-118) through beach and dune fill placement utilizing offshore sand material located in federal waters. The project also entails the construction of back-barrier marsh habitat utilizing mixed sediment from state waters. The project also proposes to create a feeder beach along West Belle Headland to help provide sediment to nourish the shoreline and re-nourishment of the previously constructed West Belle Pass Project (CPRA Project TE-52). The project is located southwest of Port Fourchon, Louisiana, in Lafourche Parish. The project has been designed to restore the geomorphic form and function of the barrier island features at East Timbalier Island and West Belle Pass Headland to provide and protect critical habitats. Approximately 28,861,042 cubic yards of native waterbottom material would be dredged (hydraulic cutterhead dredge and hopper dredge) and placed as fill for barrier island, dune, and marsh platform restoration/creation activities. Approximately 1,613 acres of beach, dune, and marsh habitat are proposed to be created as a result of the fill placement. Approximately 1,583 acres of waterbottoms would be impacted through dredging activities at the borrow sites. The applicant has claimed that the project has been designed to avoid and minimize direct and

secondary adverse wetland impacts to the maximum extent practicable. The applicant is proposing that the project derived benefits and habitat creation would outweigh any detrimental impacts to wetland areas as a result of project implementation. Compensatory mitigation requirements are not anticipated.

The comment period for the Department of Army Permit and the Louisiana Department of Environmental Quality will close in **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC application number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Bureau of Ocean Energy Management (BOEM): A lease for use of Federal sand resources from South Pelto Area Lease Blocks 12 and 13 is required from BOEM. If you have any questions concerning the lease application, you may contact Michael Miner at Michael.Miner@boem.gov (504)736-2700. Please furnish BOEM a copy of all public notice comments. Copies can be mailed to Greg Kozlowski, Deputy Regional Supervisor, Office of Environment, Bureau of Ocean Energy Management, 1202 Elmwood Park Blvd., New Orleans, LA 70123.

Note: The Bureau of Ocean Energy Management (BOEM) has sole regulatory authority over the use of Outer Continental Shelf (OCS) sand resources and conveyance on the OCS under the OCS Lands Act. The U.S. Army Corps of Engineers (Corps) requires a permit for all other aspects of the project, including dredging of any state water bottom areas, as well as conveyance and placement of sand resources. BOEM and the Corps are working collaboratively to ensure effective implementation of the required National Environment Policy Act (NEPA) process, the required Endangered Species Act (ESA) Section 7 consultations, the Magnuson-Stevens Fishery and Conservation Management Act Essential Fish Habitat consultation (Section 305), the National Historic Preservation Act Section 106 process, and the Coastal Zone Management Act Section 307 consistency determination.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation,

shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The US Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the US Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and State Historic Preservation Officer.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

The New Orleans District has determined that the proposed activity is located in areas known to be utilized by the West Indian manatee (*Trichechus manatus*), the piping plover (*Charadrius melodus*), and the red knot (*Caladris canutus rufa*) and determined that the proposed activity is not likely to adversely affect this species based on the Standard Local Operating Procedure for Endangered Species in Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of 4,075 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Office of Environmental Services, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

JOHN M. HERMAN
Chief, Central Evaluation Section
Regulatory Branch

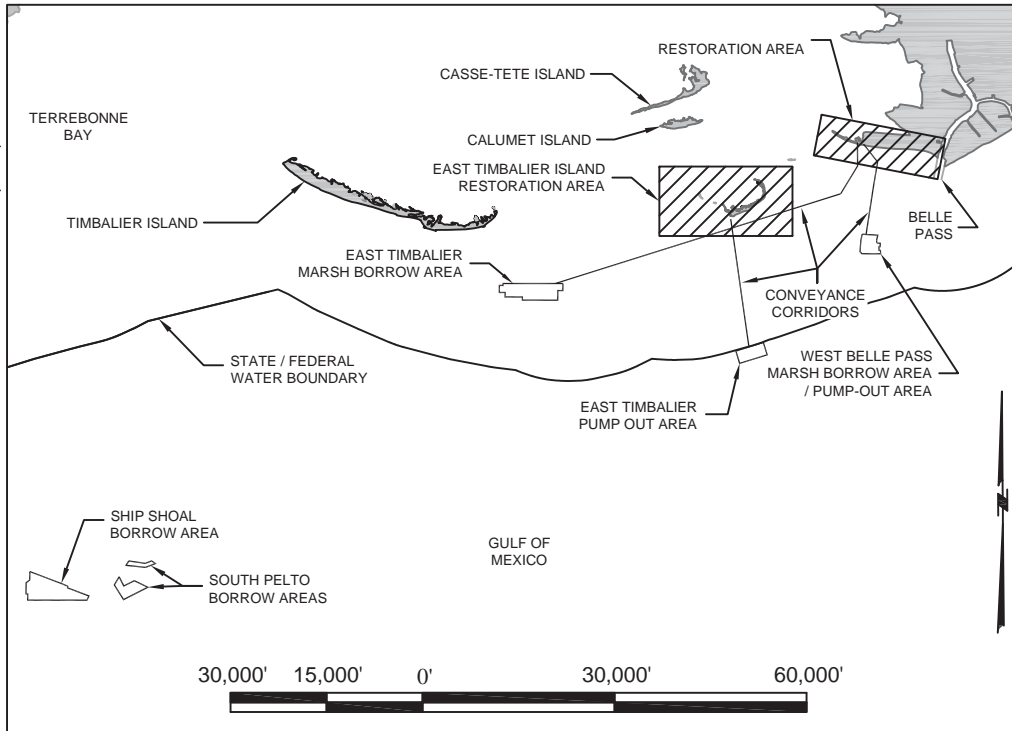
Enclosure

INDEX TO SHEETS

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

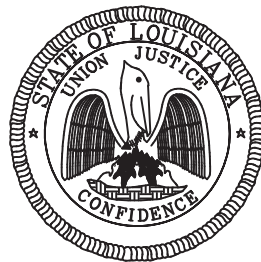
EAST TIMBALIER ISLAND RESTORATION
STATE PROJECT NO. TE-118
LAFOURCHE PARISH, LOUISIANA
PRELIMINARY


SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT OVERVIEW MAP
3	GENERAL NOTES
4	EAST TIMBALIER ISLAND RESTORATION AREA MAP
5	EAST TIMBALIER ISLAND TYPICAL SECTIONS
6	EAST TIMBALIER ISLAND ACCESS CHANNEL
7	WEST BELLE HEADLAND OVERVIEW MAP
8	WEST BELLE HEADLAND RESTORATION AREA MAP
9	WEST BELLE HEADLAND RESTORATION TYPICAL SECTIONS
10	WEST BELLE HEADLAND RESTORATION ACCESS CHANNEL
11	WEST BELLE HEADLAND RENOURISHMENT AREA MAP
12	WEST BELLE HEADLAND RENOURISHMENT TYPICAL SECTIONS
13	WEST BELLE HEADLAND FEEDER BEACH TYPICAL SECTION
14	SHIP SHOAL BORROW AREA PLAN VIEW
15 - 16	SHIP SHOAL BORROW AREA TYPICAL SECTIONS
17	SOUTH PELTO BORROW AREA PLAN VIEW
18 - 19	SOUTH PELTO BORROW AREA TYPICAL SECTIONS
20	EAST TIMBALIER MARSH BORROW AREA PLAN VIEW
21	EAST TIMBALIER MARSH BORROW AREA TYPICAL SECTIONS
22	WEST BELLE MARSH BORROW AREA PLAN VIEW
23 - 24	WEST BELLE MARSH BORROW AREA TYPICAL SECTIONS
25	EAST TIMBALIER PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW
26	EAST TIMBALIER PUMP-OUT AREA & CONVEYANCE CORRIDOR TYPICAL SECTIONS
27	WEST BELLE PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW
28	EAST TIMBALIER MARSH CONVEYANCE CORRIDOR PLAN VIEW
29	OPTIONAL SEDIMENT PIPELINE CROSSING TYPICAL DETAILS
30	SETTLEMENT AND OVERWASH MONITORING DETAILS
31	SAND FENCING DETAILS
32	EAST TIMBALIER VEGETATIVE PLANTING DETAILS
33	WEST BELLE HEADLAND VEGETATIVE PLANTING DETAILS
34 - 37	ALIGNMENT AND COORDINATE TABLES

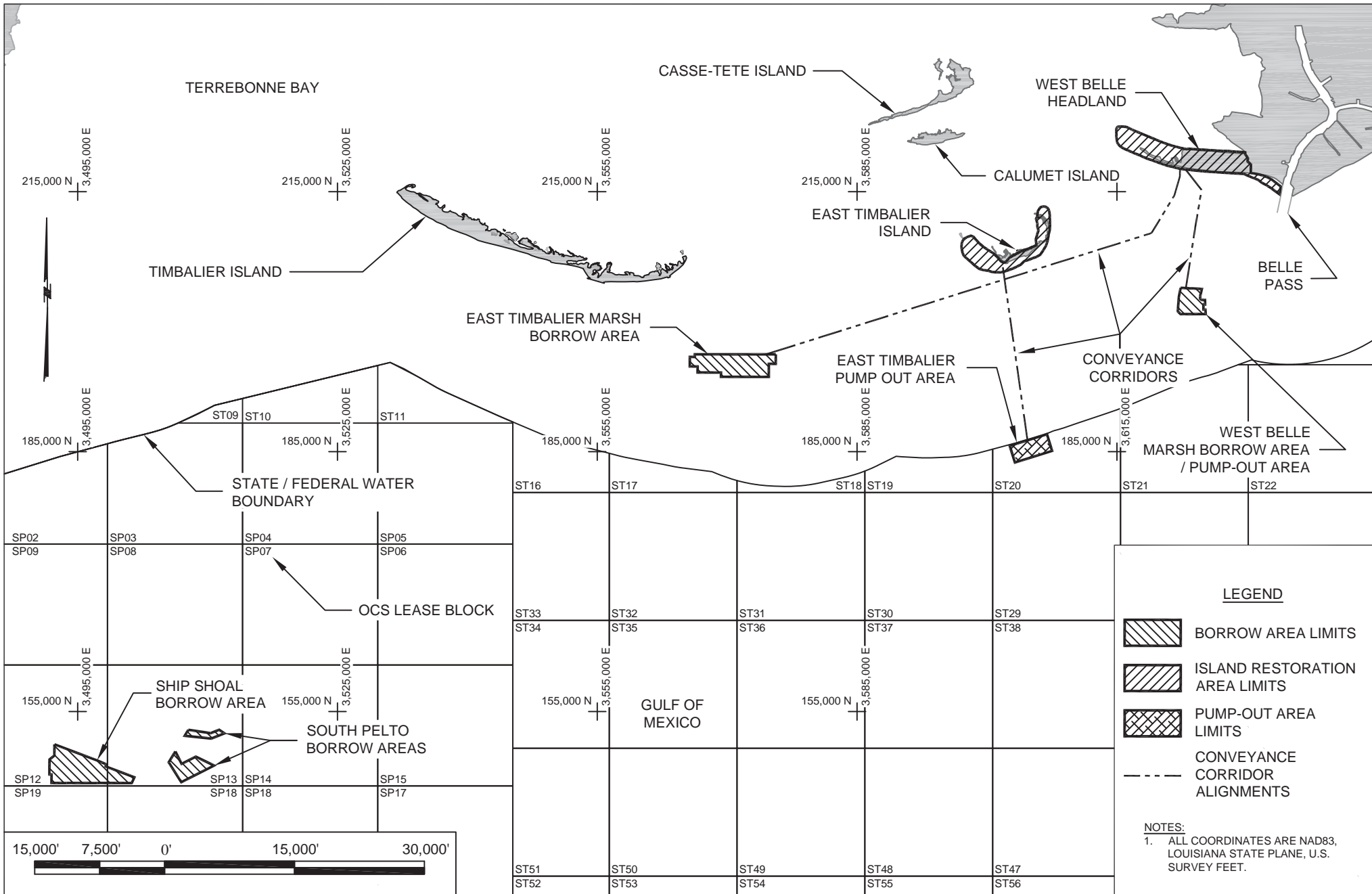


NOTES:

- FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION.
- RETAIN ENTIRE SET AS ONE, INDIVIDUAL SHEETS SHOULD NOT BE REMOVED.



BY	DESCRIPTION	DATE				
			 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	TITLE SHEET
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.		FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 1 OF 37	



BY	DESCRIPTION	DATE



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

EAST TIMBALIER ISLAND RESTORATION

PROJECT OVERVIEW MAP

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.

STATE PROJECT NUMBER: TE-118
 FEDERAL PROJECT NUMBER: NFWF 43353


DATE: JANUARY 2017
 SHEET 2 OF 37

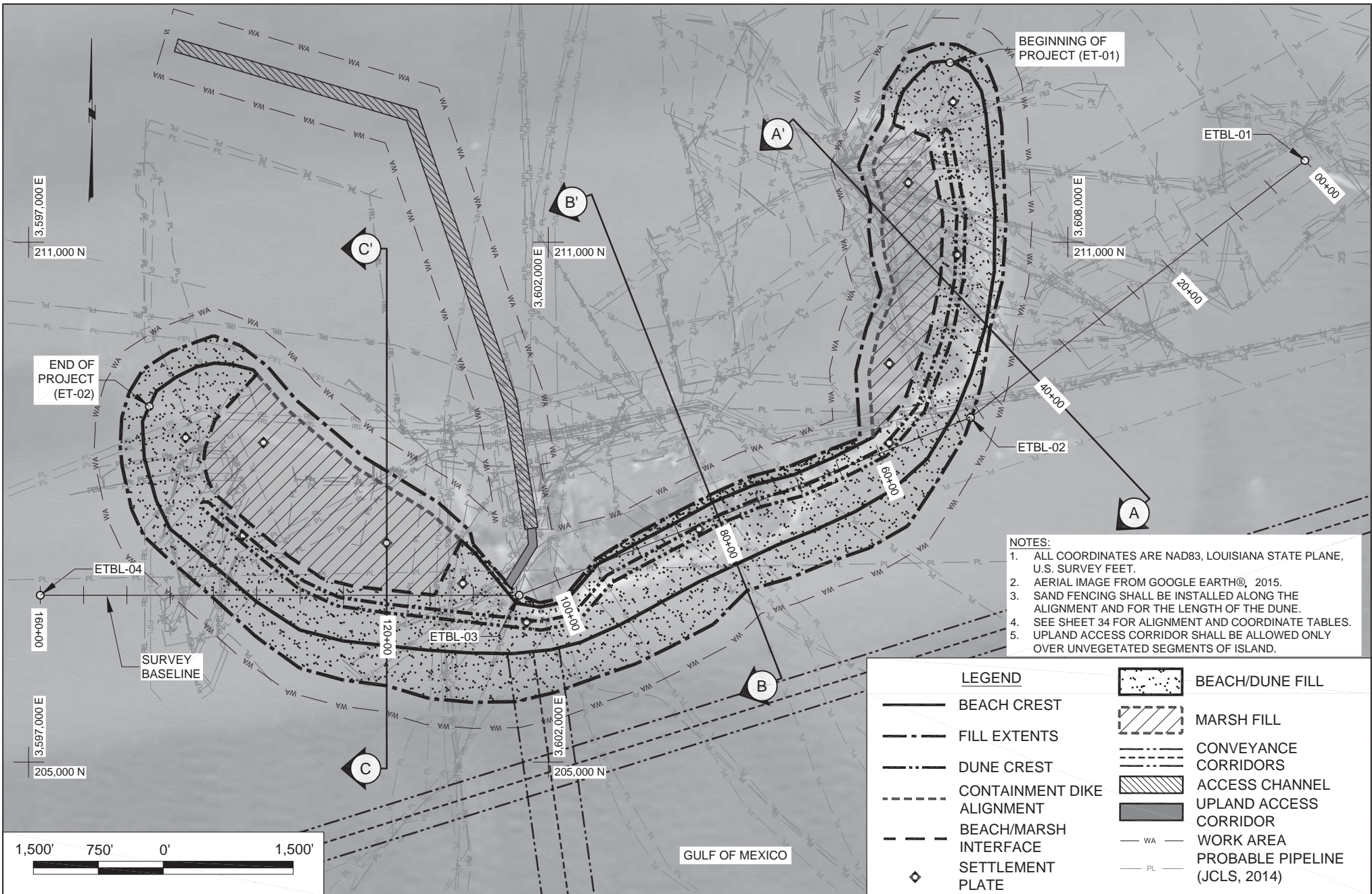
GENERAL NOTES:

1. ANY EXCAVATED MATERIAL WILL BE, TO THE BEST OF KNOWLEDGE, FREE OF CONTAMINANTS AND/OR WILL BE DISPOSED OF IN AN APPROVED LANDFILL.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE, CONSTRUCTION PLANS, AND CONTRACT DOCUMENTS AND SHALL CONDUCT WORK IN STRICT ACCORDANCE WITH ALL PERMITS AND APPROVALS OBTAINED FOR THIS PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES IN THE PLANS PRIOR TO BIDDING.
3. ALL AERIAL IMAGERY FROM GOOGLE EARTH®. 2015 AND MAY NOT BE INDICATIVE OF CURRENT CONDITIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY. THE CONTRACTOR SHALL ALSO NOTIFY PIPELINE AND UTILITY OPERATORS 72 HOURS PRIOR TO ANY EXCAVATION.
6. THE WATER BOTTOM SHALL NOT BE DISTURBED DURING ACCESS TO THE PROPOSED WORK LOCATION, OR BY THE AUTHORIZED ACTIVITIES WHETHER IT BE BY DREDGING, WHEEL WASHING , PROPWASHING, JETTING, MUCKING, PLOWING, BULL DOZING OR ANY MEANS OF MOVING BOTTOM MATERIAL, EXCEPT AS DEPICTED ON THE PERMIT SHEETS. POWERED VESSELS SHALL BE OPERATED SO AS NOT TO DISTURB THE WATER BOTTOM BY PROPELLER OR JET ACTION.
7. ALL LOGS, STUMPS, AND OTHER DEBRIS UNEARTHED DURING DREDGING SHALL BE REMOVED TO AN APPROVED OFFSITE DISPOSAL AREA.
8. THE CONTRACTOR MUST INSTALL AND MAINTAIN ANY SAFETY LIGHTS, SIGNS, AND SIGNALS PRESCRIBED BY THE U.S. COAST GUARD, THROUGH REGULATIONS OR OTHERWISE ON THE AUTHORIZED FACILITIES.
9. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
10. PIPELINES IN OPEN WATER AND/OR NAVIGABLE WATERS SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS.
11. THE PROPOSED PROJECT AND ANY FUTURE MAINTENANCE WORK INVOLVING THE USE OF FLOATING CONSTRUCTION EQUIPMENT (BARGE MOUNTED CRANES, BARGE MOUNTED PILE DRIVING EQUIPMENT, FLOATING DREDGE EQUIPMENT, DREDGE DISCHARGE PIPELINES, ETC.) IN FEDERAL WATERS, SHALL NOTIFY THE U.S. COAST GUARD SO THAT A NOTICE TO MARINERS, IF REQUIRED, MAY BE PREPARED. NOTIFICATION, WITH A COPY OF THE PERMIT APPROVAL AND DRAWINGS, SHALL BE MAILED TO THE U.S. COAST GUARD, SECTOR NEW ORLEANS COMMAND CENTER, 201 HAMMOND HIGHWAY, METAIRIE, LOUISIANA 70005, 30 DAYS BEFORE COMMENCEMENT OF WORK.
12. THE OFFSHORE WORK AREAS SHALL CONSIST OF THE BORROW AREAS AND CONVEYANCE CORRIDORS. THE INSHORE WORK AREA IS DEFINED BY A 150' OFFSET FROM THE OUTER LIMITS OF THE ACCESS CHANNELS, TEMPORARY SIDECAST DISPOSAL AREAS, SECONDARY BORROW CHANNEL, AND THE GULF TOE OF THE BEACH FILL TEMPLATE. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS/HER PLANT, EQUIPMENT, AND OPERATIONS OF PERSONNEL WITHIN THE LIMITS OF THE WORK AREA, AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH PLANT OR EQUIPMENT.
13. THE CONTRACTOR SHALL FOLLOW CONVEYANCE CORRIDORS, ACCESS CHANNELS, AND / OR FILL TEMPLATES, AND SHALL NOT, AT ANY TIME, TRAVEL ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS SPECIFIED IN THE PERMIT OR THROUGH WRITTEN DIRECTION FROM ENGINEER.
14. THE CONTRACTOR SHALL WORK COOPERATIVELY WITH THE OWNER TO ADDRESS THE NOTIFICATION AND COORDINATION REQUIREMENTS WITH THE LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES.
15. AS-BUILT DRAWINGS AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P.O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
16. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.
17. FULLY LOADED DRAFT OF VESSELS ARE AS FOLLOWS: BUCKET DREDGE 8', CUTTERHEAD DREDGE 13', SCOW BARGE 26', HOPPER 32'.

SURVEY NOTES:

1. ALL COORDINATES ARE NORTH AMERICAN DATUM OF 1983 (NAD 83 - GEOID 12A), LOUISIANA STATE PLANE, SOUTHERN ZONE, U.S. SURVEY FEET. ALL RESTORATION AREA ELEVATIONS ARE BASED ON NATIONAL GEODETIC SURVEY AND LOUISIANA DEPARTMENT OF NATURAL RESOURCES MONUMENTS.
- | MONUMENTS | ELEVATION | NORTHING | EASTING |
|-------------|-----------|------------|--------------|
| TE23-SM-01 | 7.30' | 224,296.33 | 3,645,688.77 |
| TE118-SM-01 | 2.16' | 207,570.44 | 3,601,096.02 |
| TE118-SM-02 | 3.06' | 207,952.34 | 3,604,313.92 |
| TE118-SM-03 | 1.56' | 228,233.63 | 3,597,696.59 |
2. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - 2004.65), U.S. SURVEY FEET UNLESS OTHERWISE SPECIFIED.
 3. SHIP SHOAL AND EAST TIMBALIER MARSH BORROW AREAS, EAST TIMBALIER PUMP-OUT AREA, AND EAST TIMBALIER CONVEYANCE CORRIDOR SURVEYS PERFORMED BY OCEAN SURVEYS, INC., 2015-16. SOUTH PELTO BORROW AREA SURVEY PERFORMED BY OCEAN SURVEYS, INC. 2011. WEST BELLE MARSH BORROW AREA AND WEST BELLE PUMP-OUT AREA SURVEYS PERFORMED BY WEEKS MARINE, INC., 2012.
 4. ALL ISLAND AND HEADLAND SURVEYS PERFORMED BY JOHN CHANCE LAND SURVEYS, INC., 2014-15 AND BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2006.
 5. INFORMATION SHOWN HERE IN REFLECTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.

BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	GENERAL NOTES
						STATE PROJECT NUMBER: TE-118
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 3 OF 37



BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

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

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

STATE PROJECT NUMBER: TE-118

FEDERAL PROJECT NUMBER: NFWF 43353

EAST TIMBALIER ISLAND RESTORATION AREA MAP


DATE: JANUARY 2017

SHEET 4 OF 37

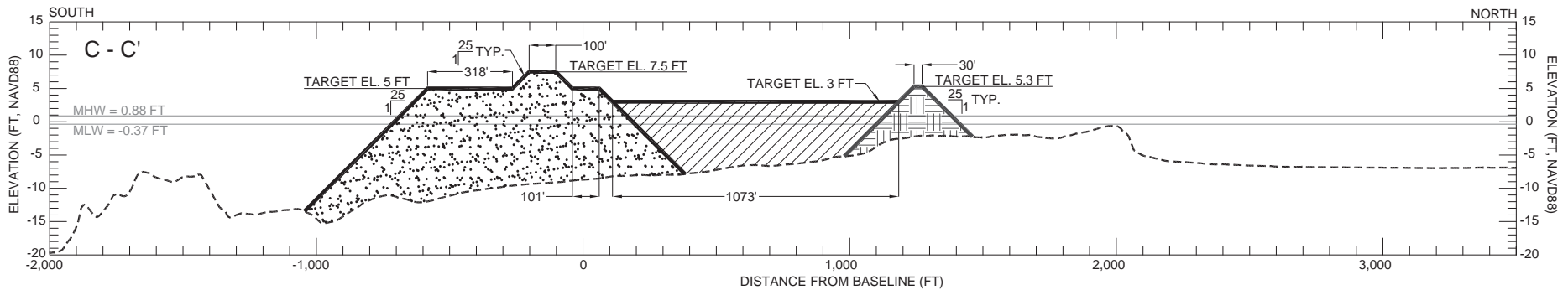
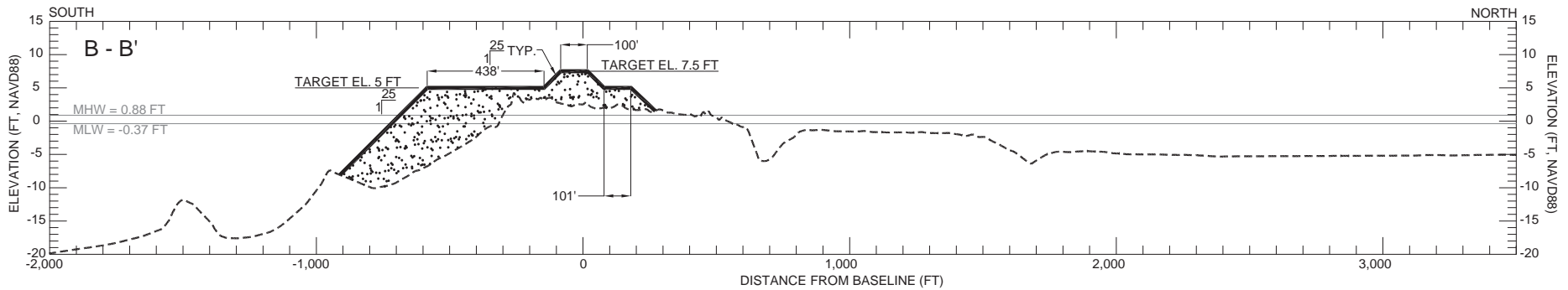
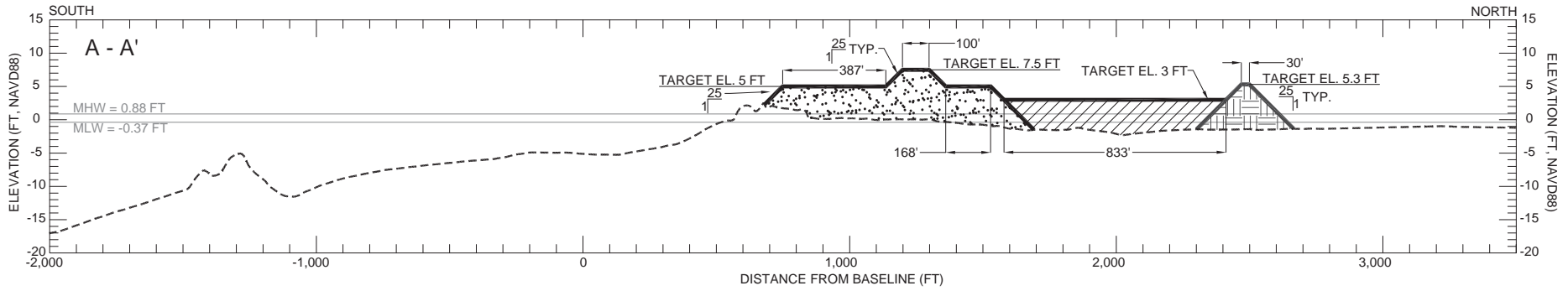
NOTES:


1. SECTIONS ARE VIEWED AS LOOKING WEST.
2. EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2014.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND DO NOT MEASURE ALONG THE SURVEY BASELINE.
4. CONTAINMENT DIKE CONSTRUCTED FROM TRANSPORTED SAND FILL.
5. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.

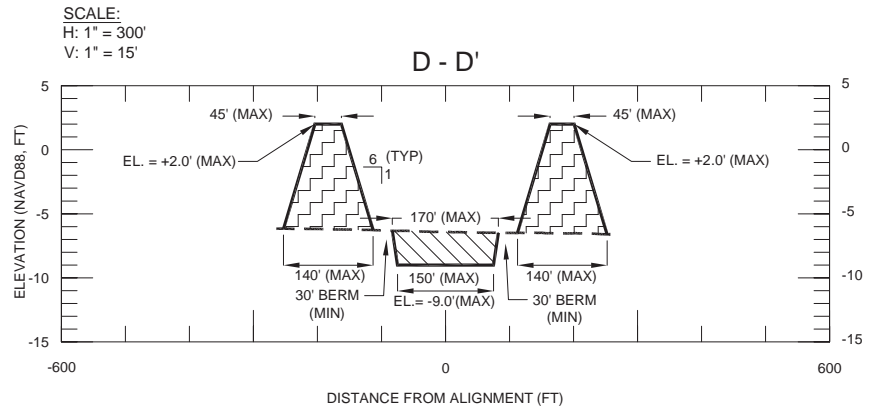
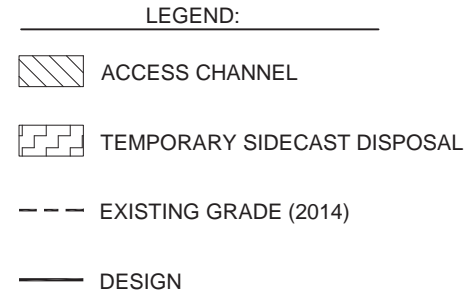
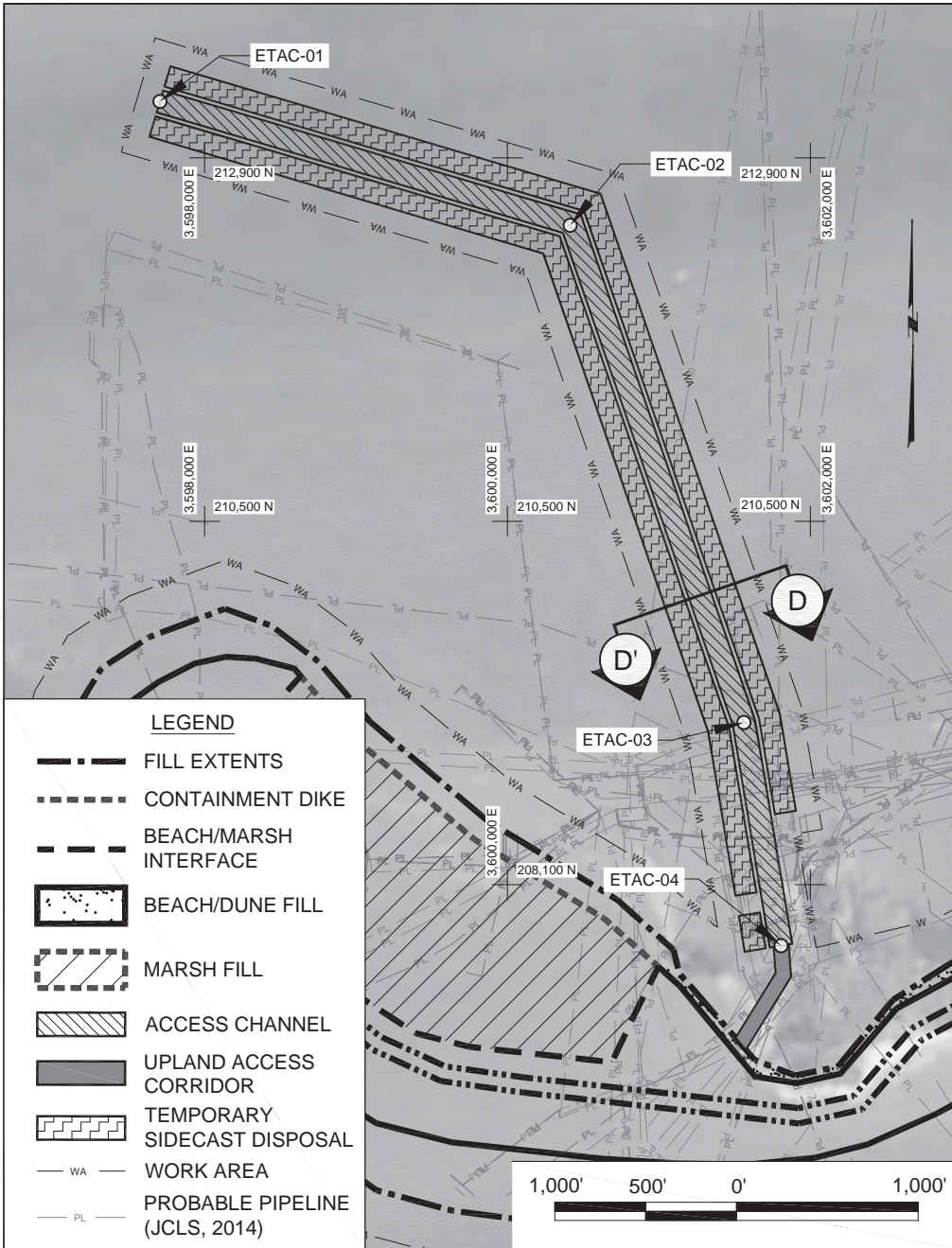
LEGEND

 EXISTING GRADE (2014)	 BEACH & DUNE FILL	 CONTAINMENT DIKE FILL
 DESIGN	 MARSH FILL	

SCALE:
H: 1" = 600'
V: 1" = 30'



BY	DESCRIPTION	DATE	 <p>COASTAL ENGINEERING CONSULTANTS, INC</p>	<p>LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY</p> <p>150 TERRACE AVENUE BATON ROUGE, LA 70802</p>	<p>EAST TIMBALIER ISLAND RESTORATION</p>	<p>EAST TIMBALIER ISLAND TYPICAL SECTIONS</p>
					<p>STATE PROJECT NUMBER: TE-118</p>	<p>DATE: JANUARY 2017</p>
DRAWN BY: STEVE DARTEZ			<p>DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048</p>	<p>APPROVED BY: TRAVIS BYLAND, P.E.</p>	<p>FEDERAL PROJECT NUMBER: NFWF 43353</p>	<p>SHEET 5 OF 37</p>



- NOTES:**
- CROSSING OF OIL & GAS PIPELINES SHALL BE IN ACCORDANCE WITH PIPELINE OWNER AND CONSTRUCTION CONTRACTOR CROSSING AGREEMENTS.
 - MATERIAL REMAINING IN THE TEMPORARY SIDECAST DISPOSAL AREAS SHALL BE REWORKED TO ±0.5 FEET OF THE PRE-CONSTRUCTION ELEVATIONS PRIOR TO DEMOBILIZATION.
 - ELEVATIONS IN THE ACCESS CHANNEL RESULTING FROM BACKFILLING OPERATIONS SHALL BE NO HIGHER THAN +0.5 FEET OF THE PRE-CONSTRUCTION ELEVATION.
 - EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2014.
 - ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 - AERIAL IMAGE FROM GOOGLE EARTH®, 2015.
 - SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.
 - UPLAND ACCESS CORRIDOR SHALL BE ALLOWED ONLY OVER UNVEGETATED SEGMENTS OF ISLAND.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LA 70802

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

STATE PROJECT NUMBER: TE-118

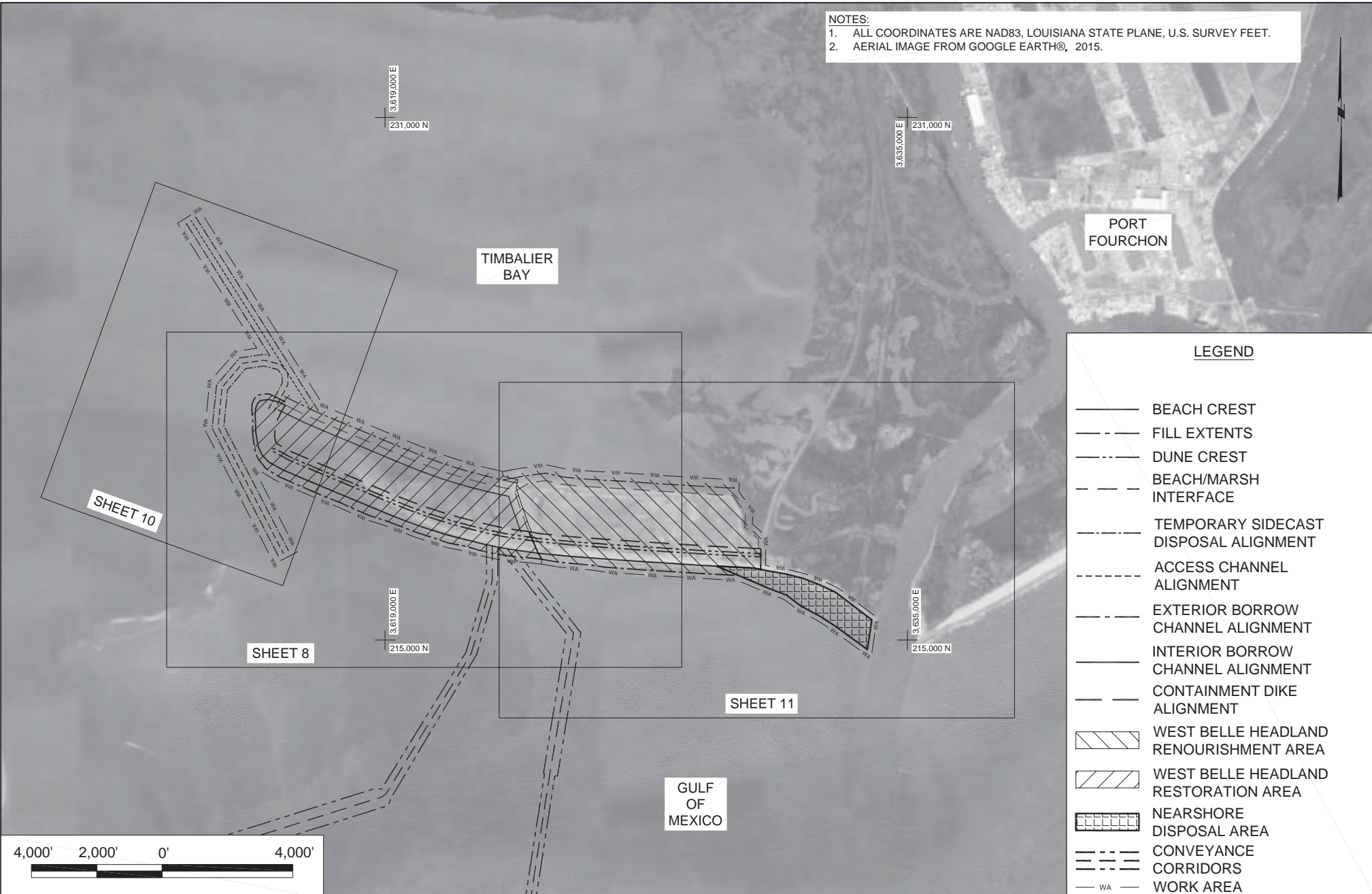
FEDERAL PROJECT NUMBER: NFWF 43353

EAST TIMBALIER ISLAND ACCESS CHANNEL

DATE: JANUARY 2017

SHEET 6 OF 37

NOTES:
 1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 2. AERIAL IMAGE FROM GOOGLE EARTH®, 2015.



LEGEND	
	BEACH CREST
	FILL EXTENTS
	DUNE CREST
	BEACH/MARSH INTERFACE
	TEMPORARY SIDECAST DISPOSAL ALIGNMENT
	ACCESS CHANNEL ALIGNMENT
	EXTERIOR BORROW CHANNEL ALIGNMENT
	INTERIOR BORROW CHANNEL ALIGNMENT
	CONTAINMENT DIKE ALIGNMENT
	WEST BELLE HEADLAND RENOURISHMENT AREA
	WEST BELLE HEADLAND RESTORATION AREA
	NEARSHORE DISPOSAL AREA
	CONVEYANCE CORRIDORS
	WORK AREA

BY	DESCRIPTION	DATE

DRAWN BY: BRETT BORNE, E.I.

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

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

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

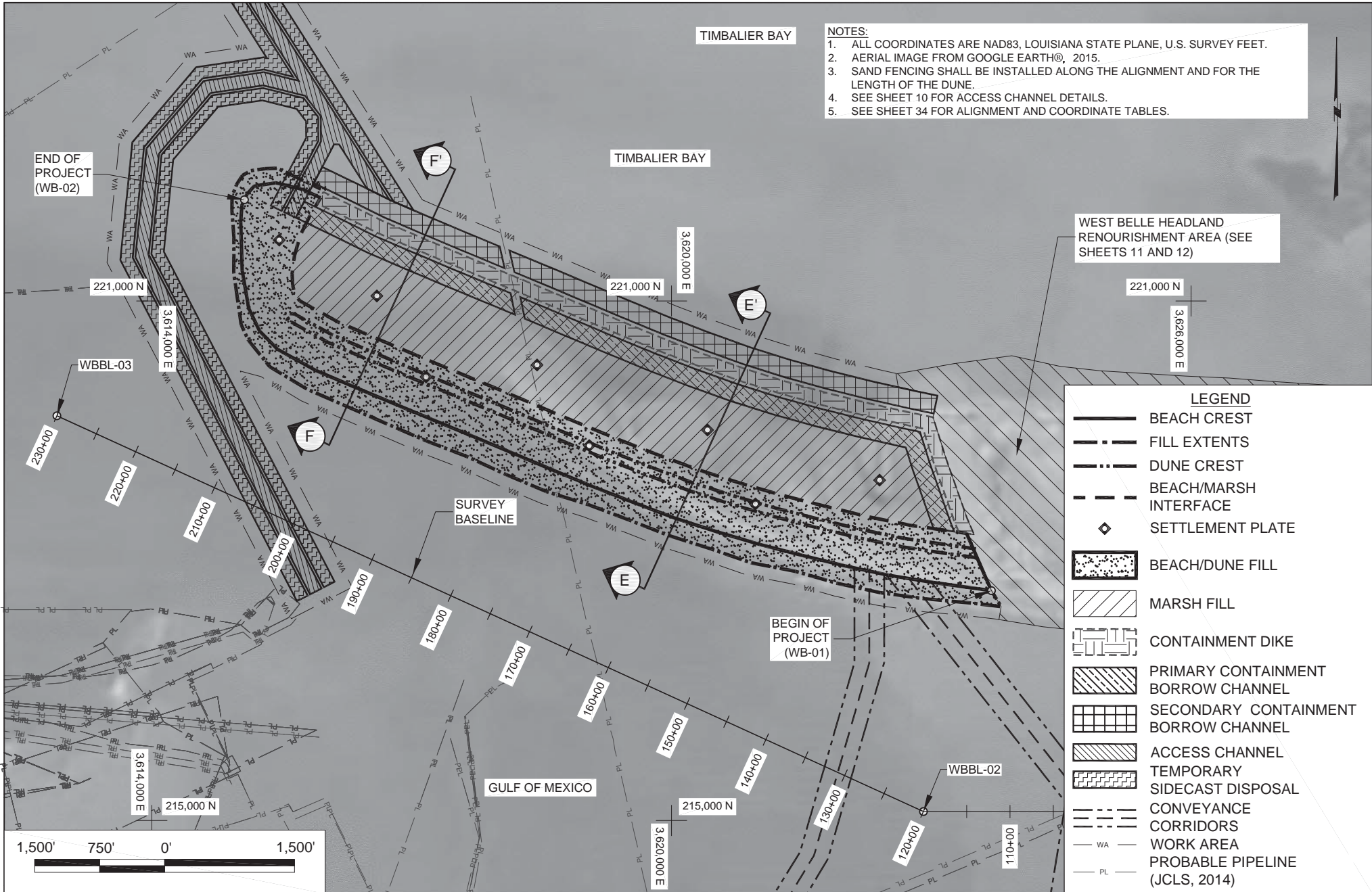
STATE PROJECT NUMBER: TE-118

FEDERAL PROJECT NUMBER: NFWF 43353

WEST BELLE HEADLAND OVERVIEW MAP

DATE: JANUARY 2017

SHEET 7 OF 37



BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

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

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

STATE PROJECT NUMBER: TE-118

FEDERAL PROJECT NUMBER: NFWF 43353

WEST BELLE HEADLAND RESTORATION AREA MAP

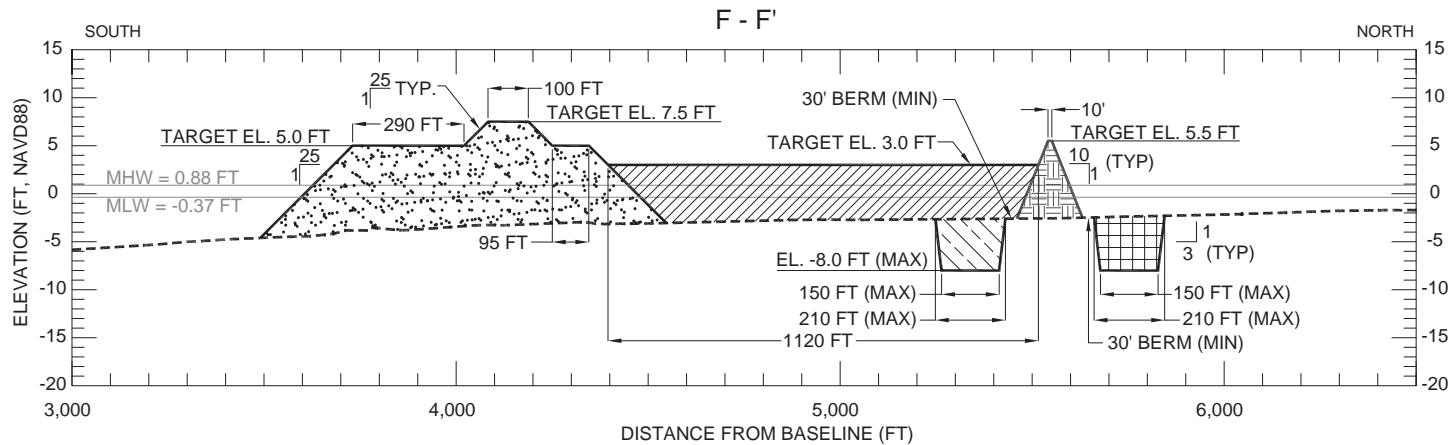
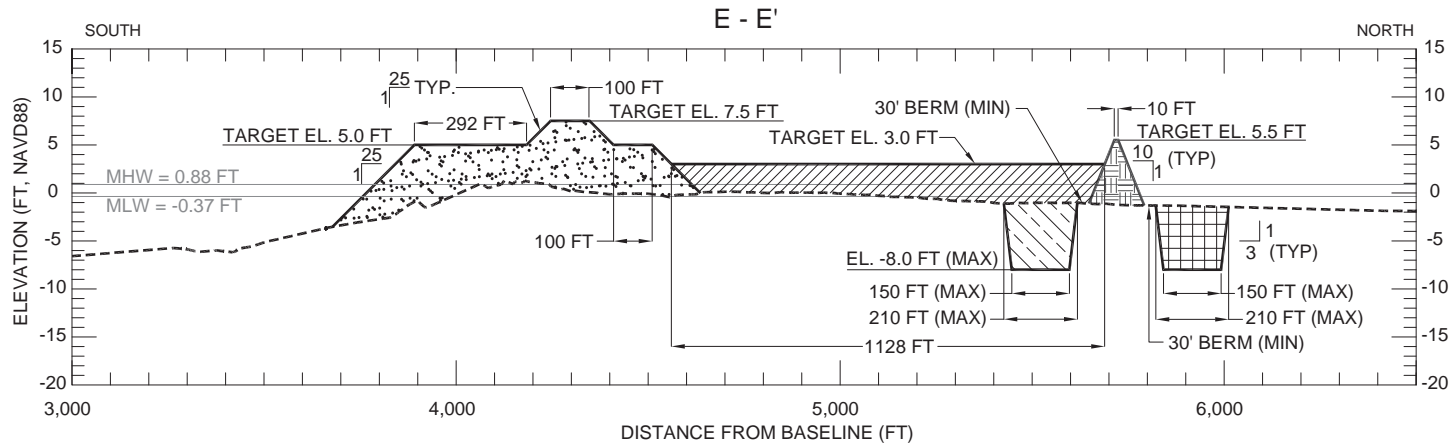
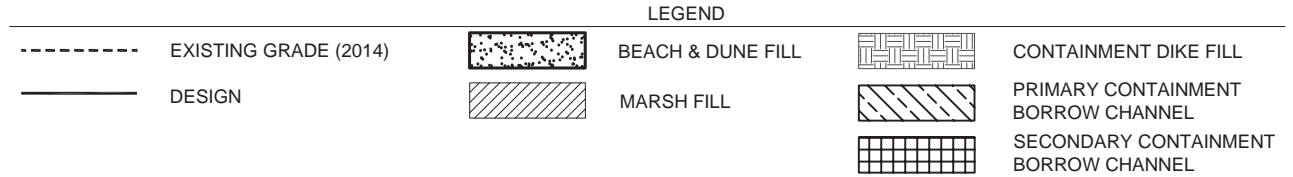
DATE: JANUARY 2017

SHEET 8 OF 37

NOTES:

1. SECTIONS ARE VIEWED AS LOOKING NORTHWEST.
2. EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2014.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND DO NOT MEASURE ALONG THE SURVEY BASELINE.
4. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.

SCALE:
H: 1" = 500'
V: 1" = 25'

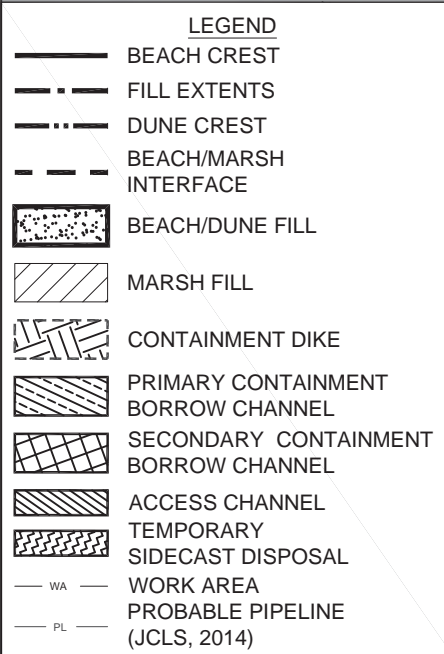
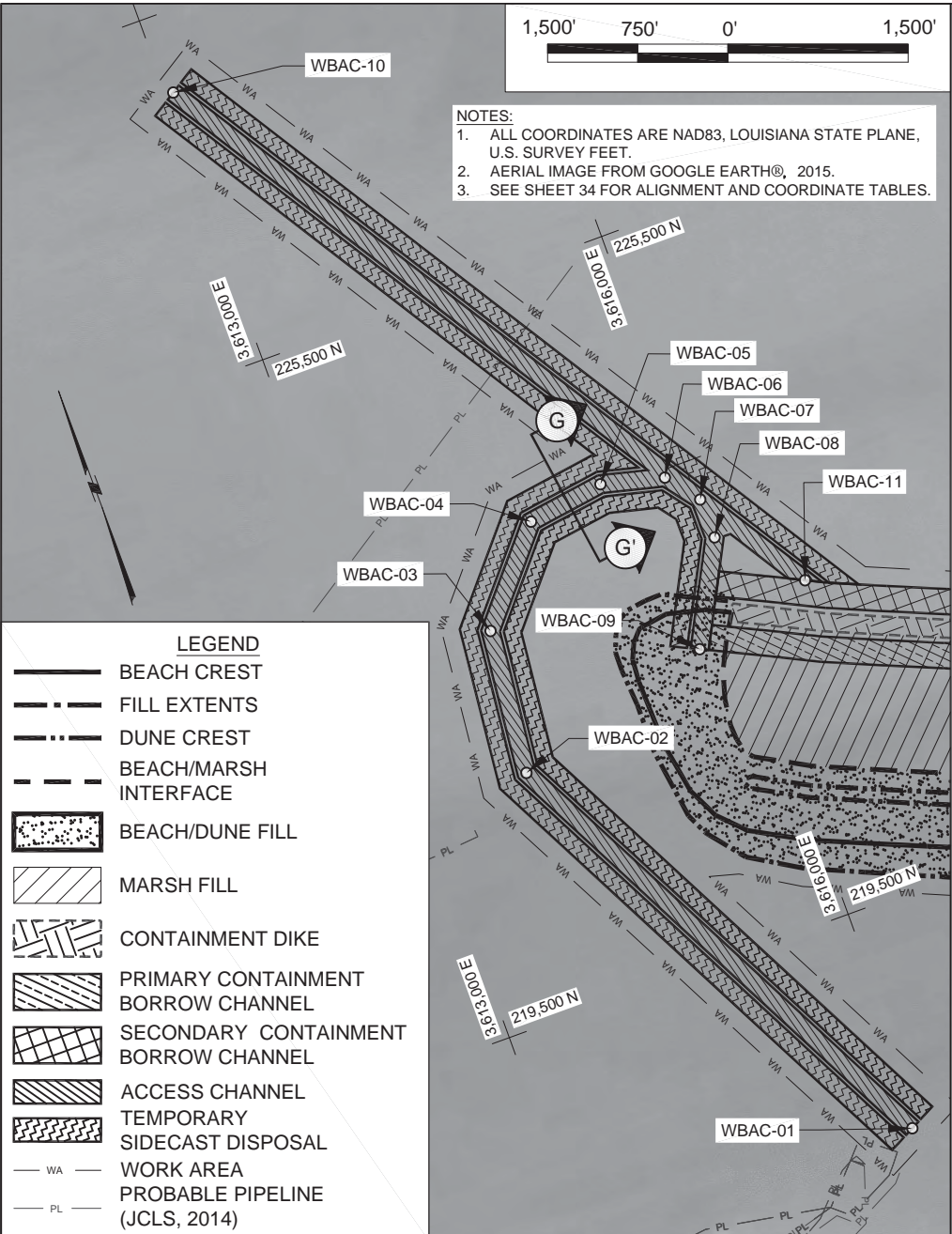


BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	WEST BELLE HEADLAND TYPICAL SECTIONS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 9 OF 37

1,500' 750' 0' 1,500'

NOTES:

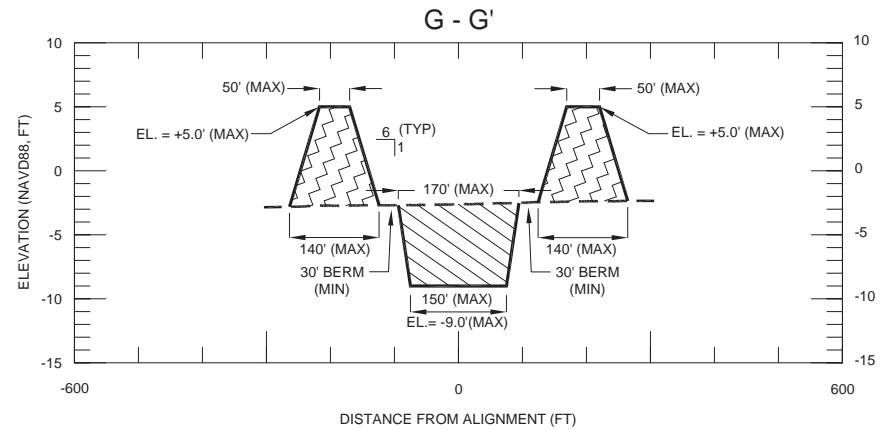
1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
2. AERIAL IMAGE FROM GOOGLE EARTH®, 2015.
3. SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.



LEGEND:

- ACCESS CHANNEL
- TEMPORARY SIDECAST DISPOSAL
- EXISTING GRADE (2014)
- DESIGN

SCALE:
H: 1" = 300'
V: 1" = 15'



NOTES:

1. MATERIAL REMAINING IN THE TEMPORARY SIDECAST DISPOSAL AREAS SHALL BE REWORKED TO ±0.5 FEET OF THE PRE-CONSTRUCTION ELEVATIONS PRIOR TO DEMOBILIZATION.
2. ELEVATIONS IN THE ACCESS CHANNEL RESULTING FROM BACKFILLING OPERATIONS SHALL BE NO HIGHER THAN +0.5 FEET OF THE PRE-CONSTRUCTION ELEVATION.
3. EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2014.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

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

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

STATE PROJECT NUMBER: TE-118

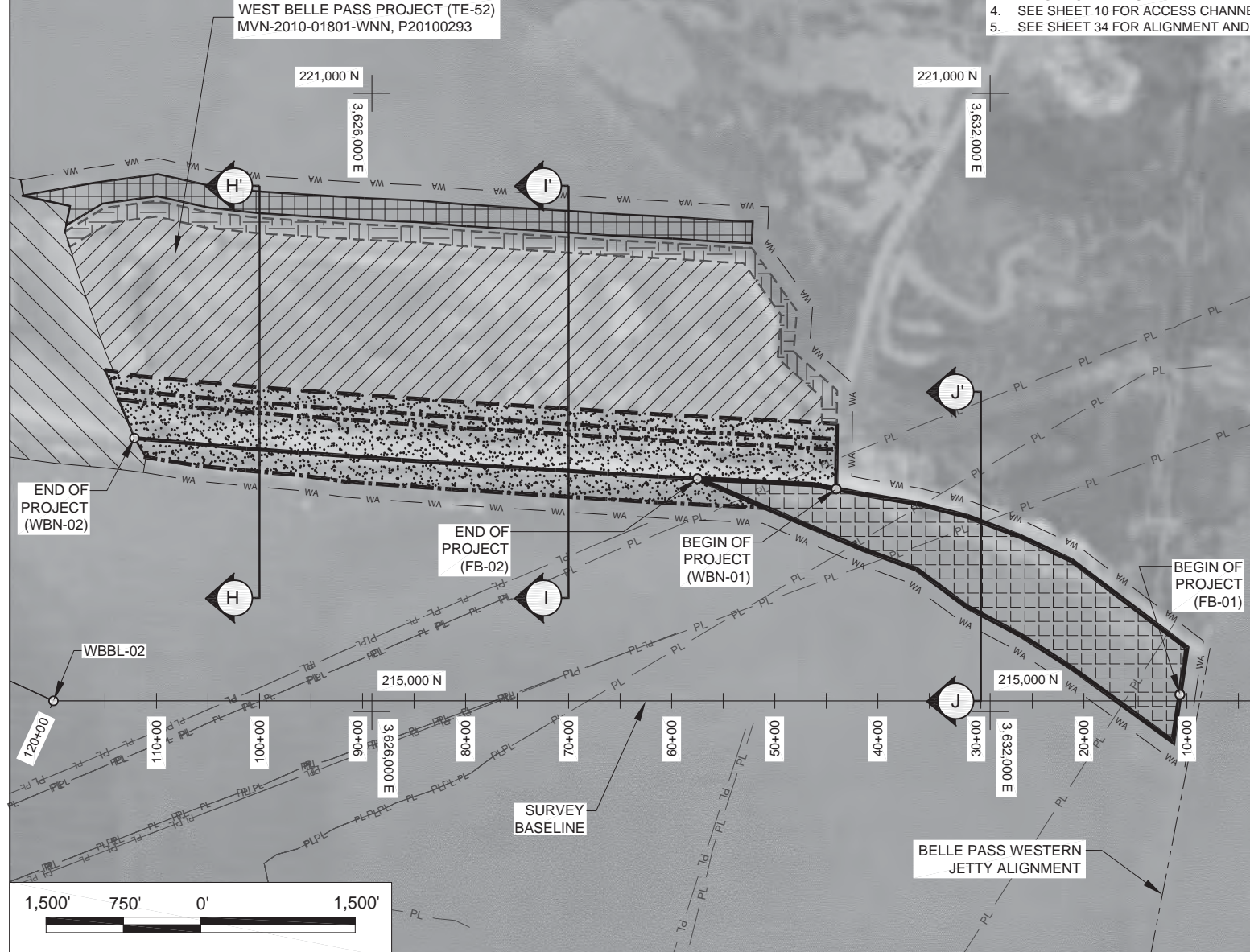
FEDERAL PROJECT NUMBER: NFWF 43353

WEST BELLE HEADLAND ACCESS CHANNEL

DATE: JANUARY 2017

SHEET 10 OF 37

- NOTES:**
1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 2. AERIAL IMAGE FROM GOOGLE EARTH®, 2015.
 3. SAND FENCING SHALL BE INSTALLED ALONG THE ALIGNMENT AND FOR THE LENGTH OF THE DUNE.
 4. SEE SHEET 10 FOR ACCESS CHANNEL DETAILS.
 5. SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.



LEGEND

- BEACH CREST
- FILL EXTENTS
- DUNE CREST
- BEACH/MARSH INTERFACE
- BEACH/DUNE FILL
- MARSH FILL
- CONTAINMENT DIKE
- EXTERIOR CONTAINMENT BORROW CHANNEL
- NEARSHORE DISPOSAL AREA FILL EXTENTS
- WEST BELLE HEADLAND RESTORATION AREA
- WORK AREA
- PROBABLE PIPELINE (JCLS, 2014)

BY	DESCRIPTION	DATE



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

EAST TIMBALIER ISLAND RESTORATION

WEST BELLE HEADLAND RENOURISHMENT AREA MAF

DRAWN BY: BRETT BORNE, E.I.

DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.




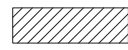

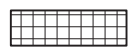
STATE PROJECT NUMBER: TE-118
 FEDERAL PROJECT NUMBER: NFWF 43353

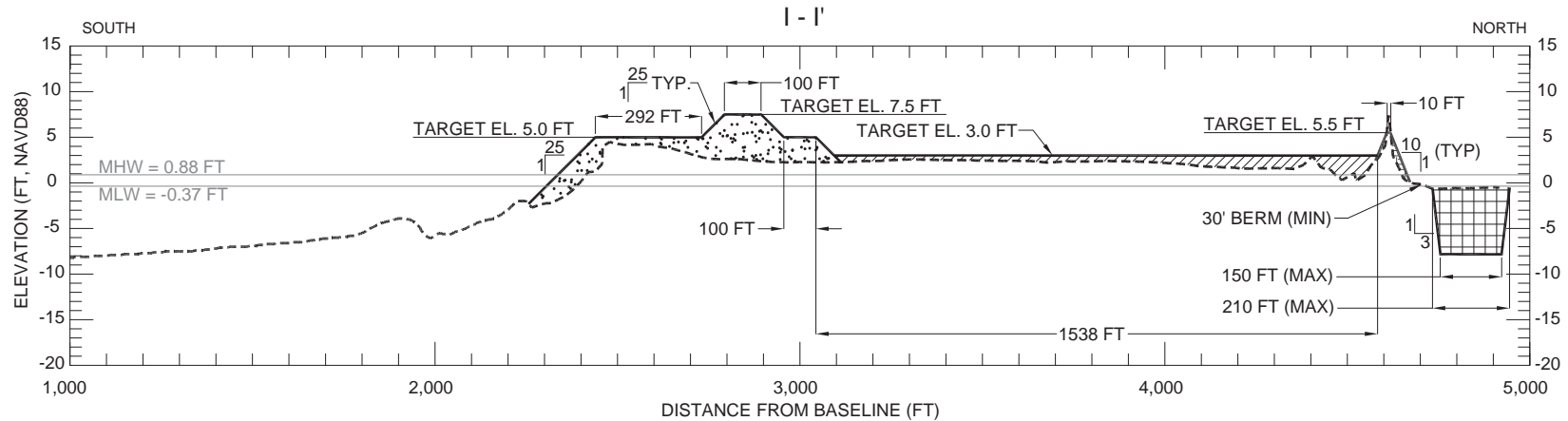
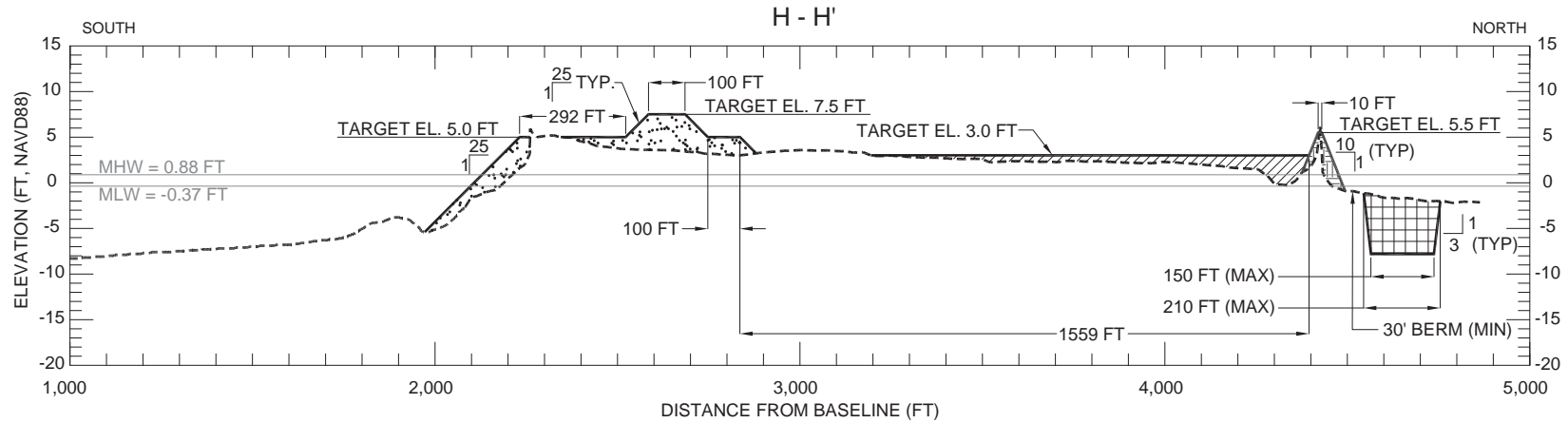
DATE: JANUARY 2017
 SHEET 11 OF 37


NOTES:

1. SECTIONS ARE VIEWED AS LOOKING NORTHWEST.
2. EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2015.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND DO NOT MEASURE ALONG THE SURVEY BASELINE.
4. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.

SCALE:
H: 1" = 500'
V: 1" = 25'

LEGEND	
	EXISTING GRADE (2015)
	DESIGN
	BEACH & DUNE FILL
	MARSH FILL
	CONTAINMENT DIKE FILL
	EXTERIOR CONTAINMENT BORROW CHANNEL



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	WEST BELLE HEADLAND RENOURISHMENT TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: BRETT BORNE, E.I.			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 12 OF 37

NOTES:

1. SECTIONS ARE VIEWED AS LOOKING WEST.
2. EXISTING GRADE SURVEY PERFORMED BY JOHN CHANCE LAND SURVEYS, INC. IN 2015.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND DO NOT MEASURE ALONG THE SURVEY BASELINE.
4. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.

SCALE:

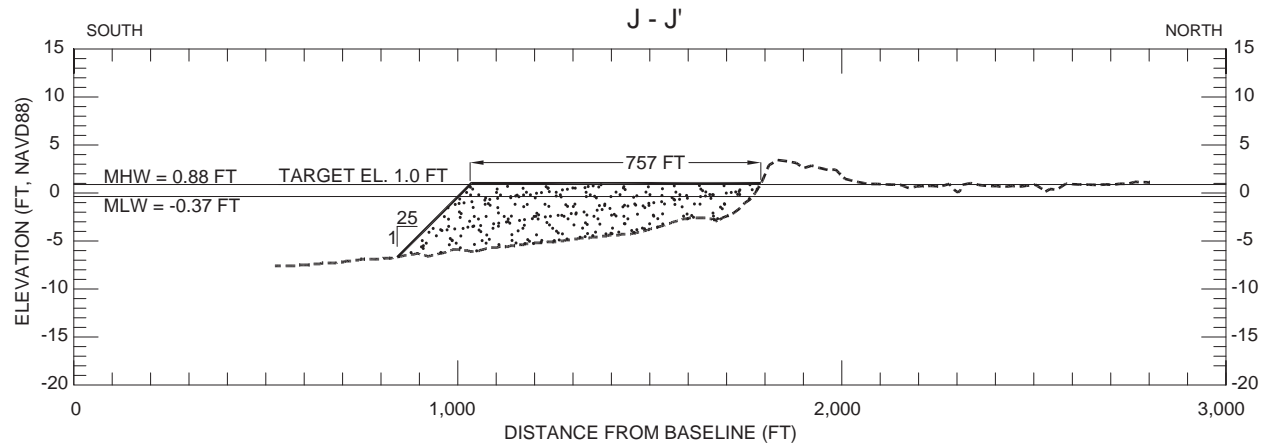
H: 1" = 500'
V: 1" = 25'


LEGEND

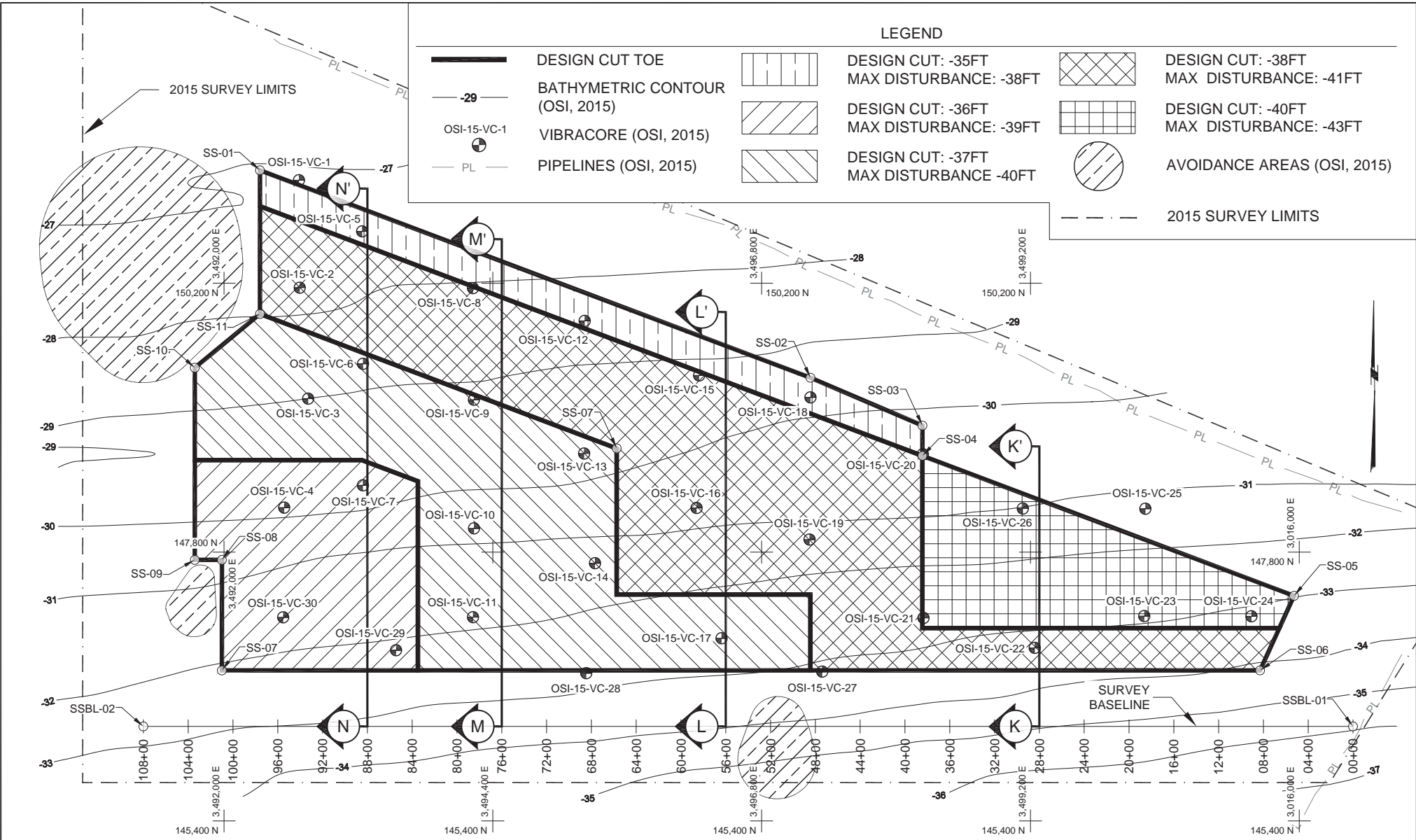
- EXISTING GRADE (2015)
- DESIGN



FEEDER BEACH FILL



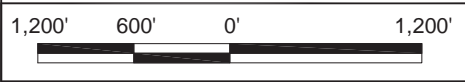
BY	DESCRIPTION	DATE	 <p>COASTAL ENGINEERING CONSULTANTS, INC</p>	<p>LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802</p>	<p>EAST TIMBALIER ISLAND RESTORATION</p>	<p>WEST BELLE HEADLAND FEEDER BEACH</p>
					<p>STATE PROJECT NUMBER: TE-118</p>	<p>DATE: JANUARY 2017</p>
<p>DRAWN BY: BRETT BORNE, E.I.</p>					<p>DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048</p>	<p>APPROVED BY: TRAVIS BYLAND, P.E.</p>



LEGEND

- DESIGN CUT TOE
- BATHYMETRIC CONTOUR (OSI, 2015)
- OSI-15-VC-1 VIBRACORE (OSI, 2015)
- PIPELINES (OSI, 2015)
- DESIGN CUT: -35FT
MAX DISTURBANCE: -38FT
- DESIGN CUT: -36FT
MAX DISTURBANCE: -39FT
- DESIGN CUT: -37FT
MAX DISTURBANCE: -40FT
- DESIGN CUT: -38FT
MAX DISTURBANCE: -41FT
- DESIGN CUT: -40FT
MAX DISTURBANCE: -43FT
- AVOIDANCE AREAS (OSI, 2015)
- 2015 SURVEY LIMITS

- NOTES:**
1. GEOPHYSICAL, GEOTECHNICAL, AND PIPELINE DATA FROM OSI, 2015.
 2. ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
 3. COORDINATES ARE NAD83, LA STATE PLANE, U.S. SURVEY FEET.
 4. SEE SHEET 35 FOR ALIGNMENT AND COORDINATE TABLES.



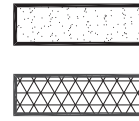
BY	DESCRIPTION	DATE	<p>COASTAL ENGINEERING CONSULTANTS, INC</p>	<p>LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY</p> <p>150 TERRACE AVENUE BATON ROUGE, LA 70802</p>	<p>EAST TIMBALIER ISLAND RESTORATION</p>	<p>SHIP SHOAL BORROW AREA PLAN VIEW</p>
					<p>STATE PROJECT NUMBER: TE-118</p>	<p>DATE: JANUARY 2017</p>
DRAWN BY:	STEVE DARTEZ		<p>DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048</p>	<p>APPROVED BY: TRAVIS BYLAND, P.E.</p>	<p>FEDERAL PROJECT NUMBER: NFWF 43353</p>	<p>SHEET 14 OF 37</p>

NOTES:

1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, INC., 2015.
2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

LEGEND:

- EXISTING GRADE (2015)
- - - 100H:1V PIPELINE SLOPE OFFSET

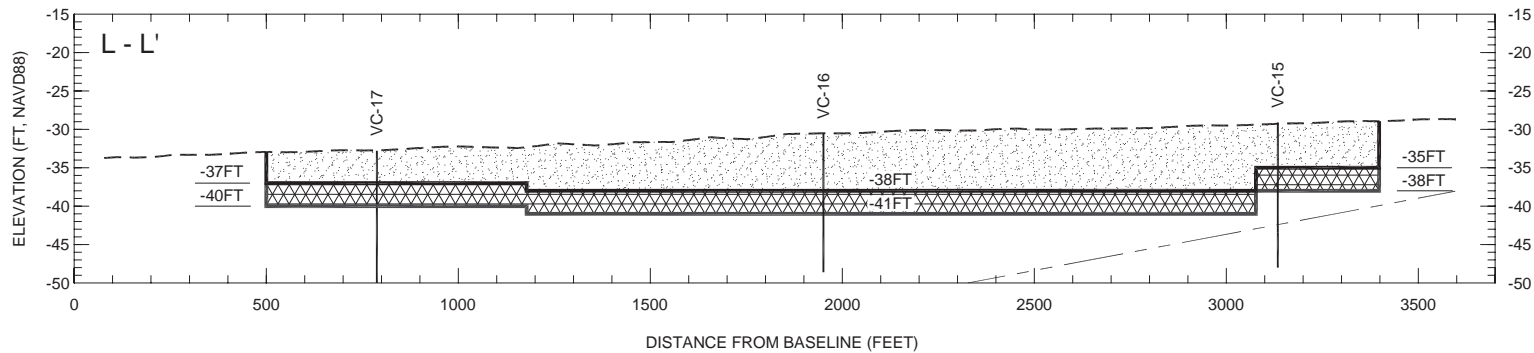
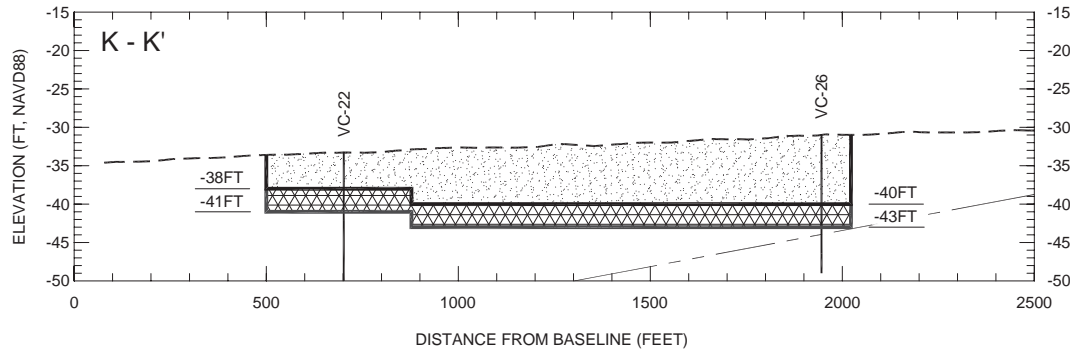



- DESIGN DREDGE CUT
- DESIGN LIMIT OF DISTURBANCE



VIBRACORE (2015)

SCALE:
H: 1" = 500'
V: 1" = 25'

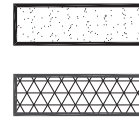


BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SHIP SHOAL BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 15 OF 37

- NOTES:
1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, INC., 2015.
 2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

LEGEND:

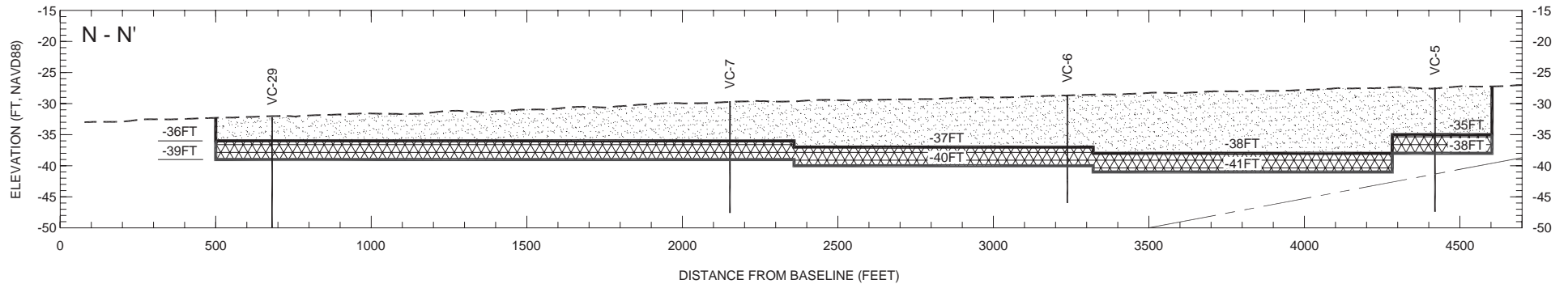
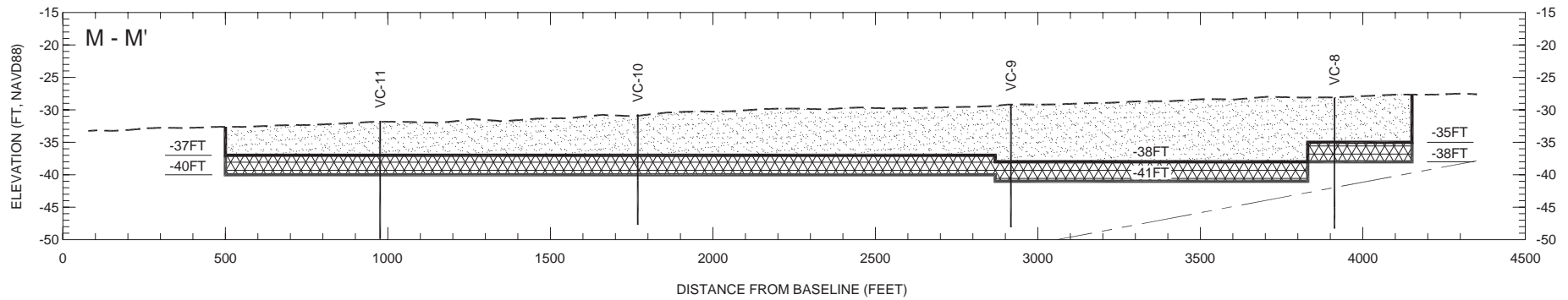
- EXISTING GRADE (2015)
- - - 100H:1V PIPELINE SLOPE OFFSET




- DESIGN DREDGE CUT
- DESIGN LIMIT OF DISTURBANCE

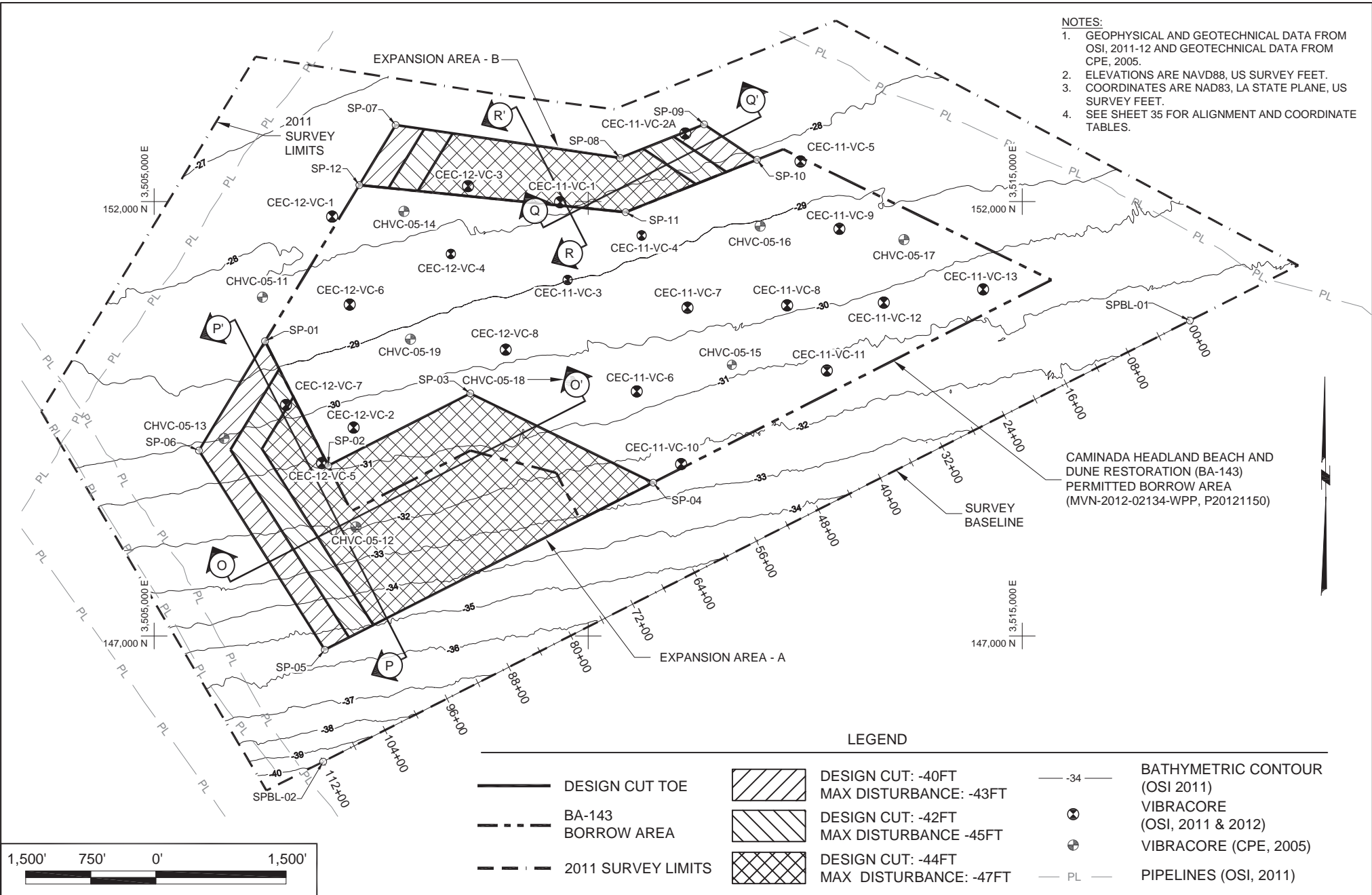


SCALE:
H: 1" = 500'
V: 1" = 25'



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SHIP SHOAL BORROW AREA TYPICAL SECTIONS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 16 OF 37

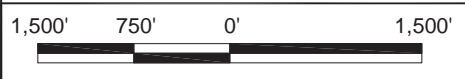
- NOTES:**
1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, 2011-12 AND GEOTECHNICAL DATA FROM CPE, 2005.
 2. ELEVATIONS ARE NAVD88, US SURVEY FEET.
 3. COORDINATES ARE NAD83, LA STATE PLANE, US SURVEY FEET.
 4. SEE SHEET 35 FOR ALIGNMENT AND COORDINATE TABLES.



CAMINADA HEADLAND BEACH AND DUNE RESTORATION (BA-143)
 PERMITTED BORROW AREA
 (MVN-2012-02134-WPP, P20121150)

LEGEND

- | | | | |
|--------------------------|--|---|--|
| — DESIGN CUT TOE | | DESIGN CUT: -40FT
MAX DISTURBANCE: -43FT | — -34 — BATHYMETRIC CONTOUR (OSI 2011) |
| - - - BA-143 BORROW AREA | | DESIGN CUT: -42FT
MAX DISTURBANCE: -45FT | ⊗ VIBROCORE (OSI, 2011 & 2012) |
| - - - 2011 SURVEY LIMITS | | DESIGN CUT: -44FT
MAX DISTURBANCE: -47FT | ⊕ VIBROCORE (CPE, 2005) |
| | | | — PL — PIPELINES (OSI, 2011) |



BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SOUTH PELTO BORROW AREA PLAN VIEW
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353

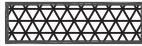
LEGEND:

SCALE:
 H: 1" = 500'
 V: 1" = 25'

--- EXISTING GRADE (2011)



DESIGN DREDGE CUT

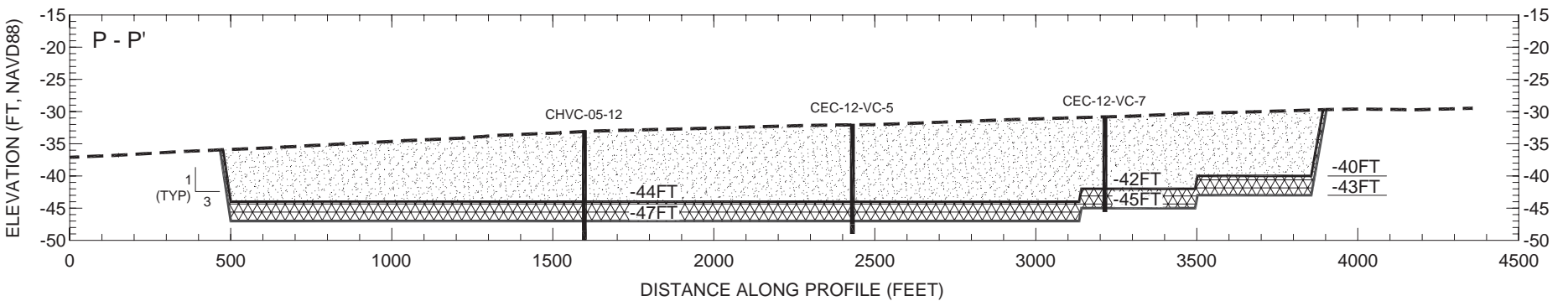
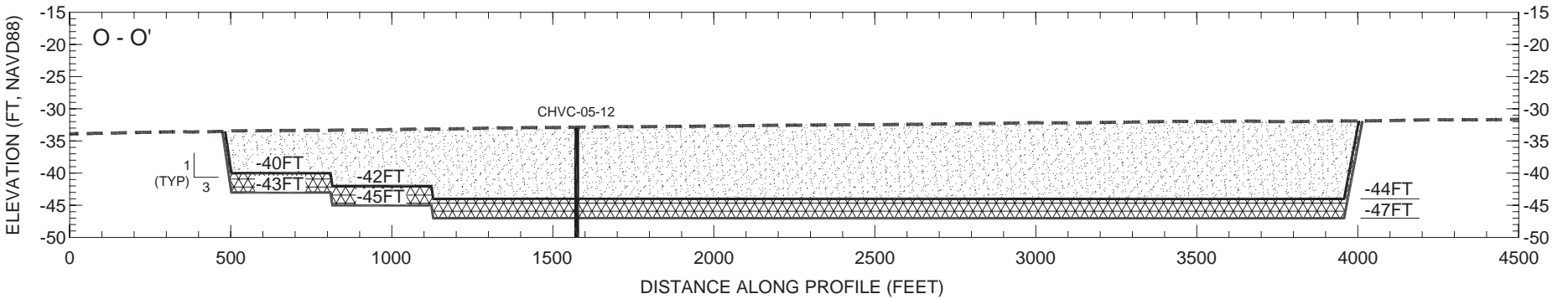



DESIGN LIMIT OF DISTURBANCE

VIBRACORE
 (CEC-12-VC-1, OSI 2012)
 (CHVC-05-12, CPE 2005)

NOTES:

1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, 2011.
2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.



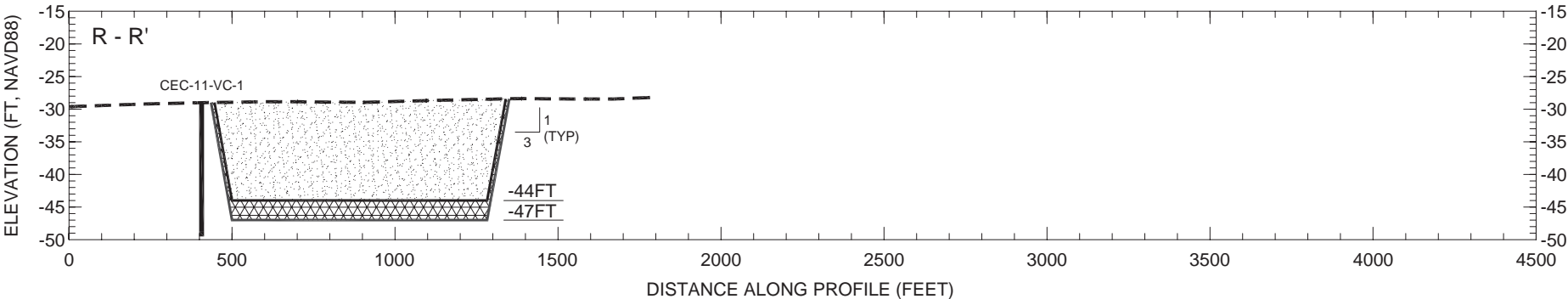
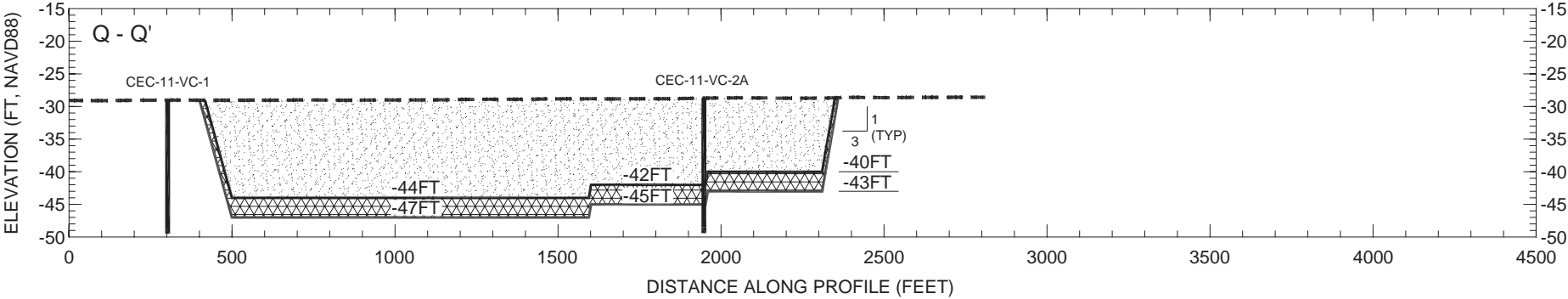
BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SOUTH PELTO BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 18 OF 37


LEGEND:

SCALE:
 H: 1" = 500'
 V: 1" = 25'

EXISTING GRADE (2011)
 DESIGN DREDGE CUT
 DESIGN LIMIT OF DISTURBANCE
 VIBRACORE
 (CEC-11-VC-1, OSI 2011)

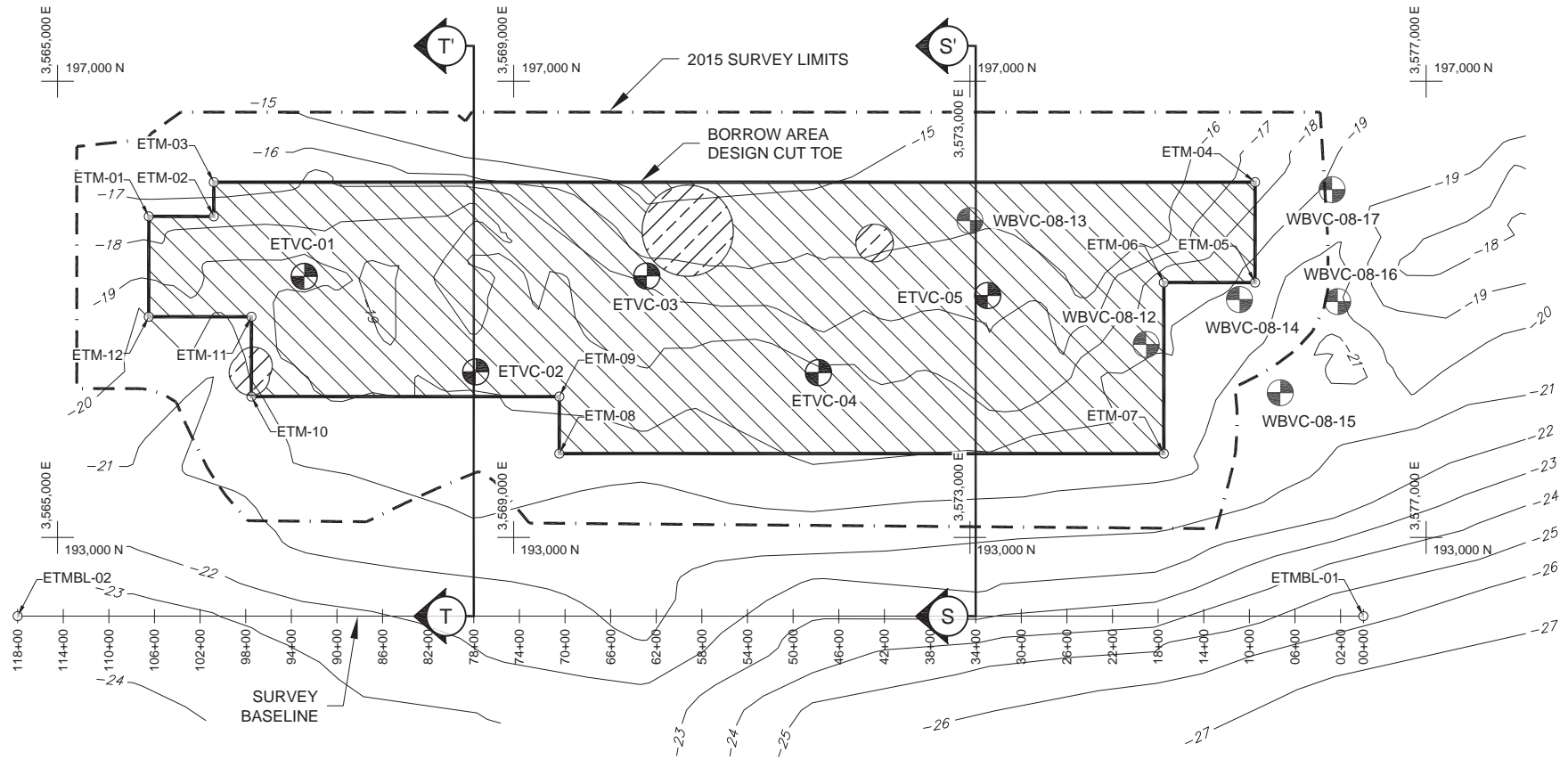
- NOTES:
 1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, 2011.
 2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.



BY	DESCRIPTION	DATE	 <p>COASTAL ENGINEERING CONSULTANTS, INC</p>	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SOUTH PELTO BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 19 OF 37

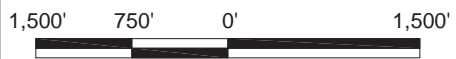
LEGEND:

- 2015 SURVEY LIMITS
- DESIGN CUT: -27FT
MAX DISTURBANCE: -30FT
- BATHYMETRIC CONTOUR (OSI, 2015)
- VIBRACORE (CPE, 2008)
- VIBRACORE (OSI, 2015)
- AVOIDANCE AREA (OSI, 2015)



NOTES:

1. GEOPHYSICAL DATA FROM OSI, 2015.
2. GEOTECHNICAL DATA FROM CPE, 2008 AND OSI, 2015.
3. ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
4. COORDINATES ARE NAD83, LA STATE PLANE, U.S. SURVEY FEET.
5. SEE SHEET 35 FOR ALIGNMENT AND COORDINATE TABLES.



BY	DESCRIPTION	DATE



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

EAST TIMBALIER ISLAND
RESTORATION

EAST TIMBALIER MARSH
BORROW AREA PLAN VIEW

STATE PROJECT NUMBER: TE-118

DATE: JANUARY 2017

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.

FEDERAL PROJECT NUMBER:
NFWF 43353





SHEET 20 OF 37

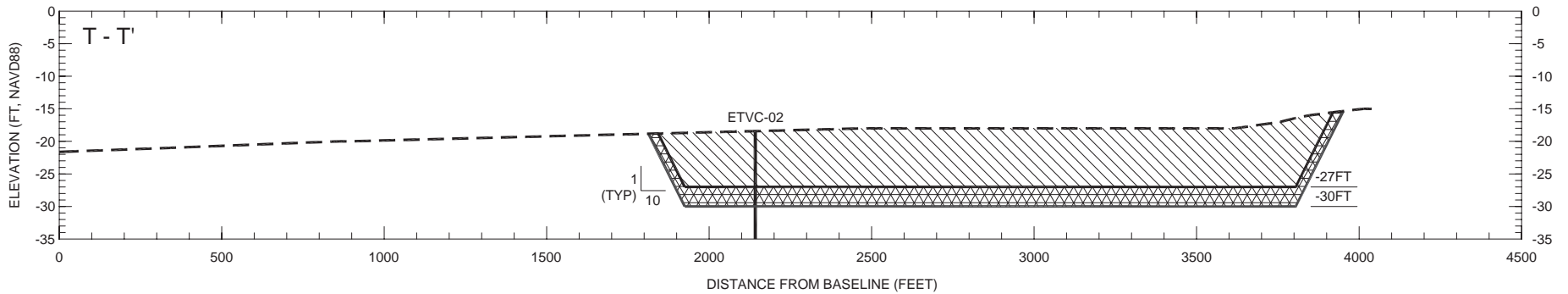
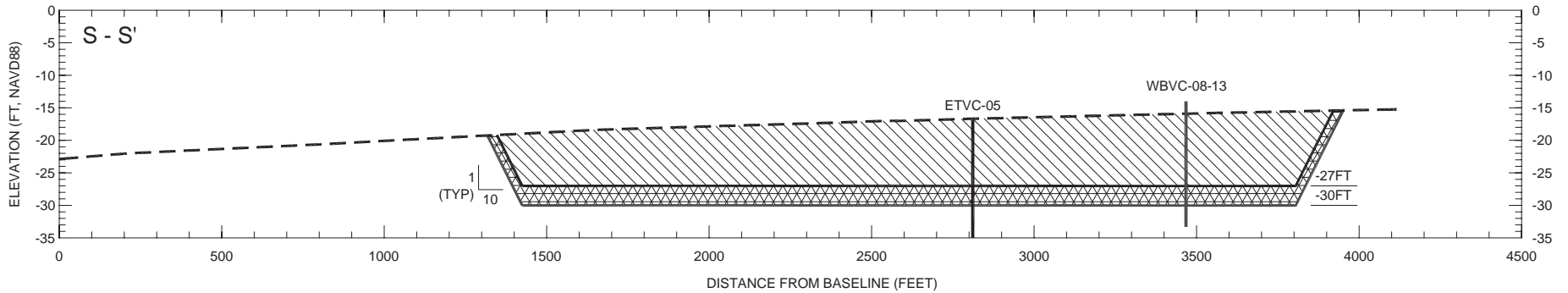
NOTES:


1. GEOPHYSICAL DATA FROM OSI, 2015.
2. GEOTECHNICAL DATA FROM CPE, 2008.
3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

SCALE:
 H: 1" = 500'
 V: 1" = 25'

LEGEND:

-  EXISTING GRADE (2015)
 -  DESIGN DREDGE CUT
 -  DESIGN LIMIT OF DISTURBANCE
- WBVC-08-13
 VIBRACORE (CPE, 2008)



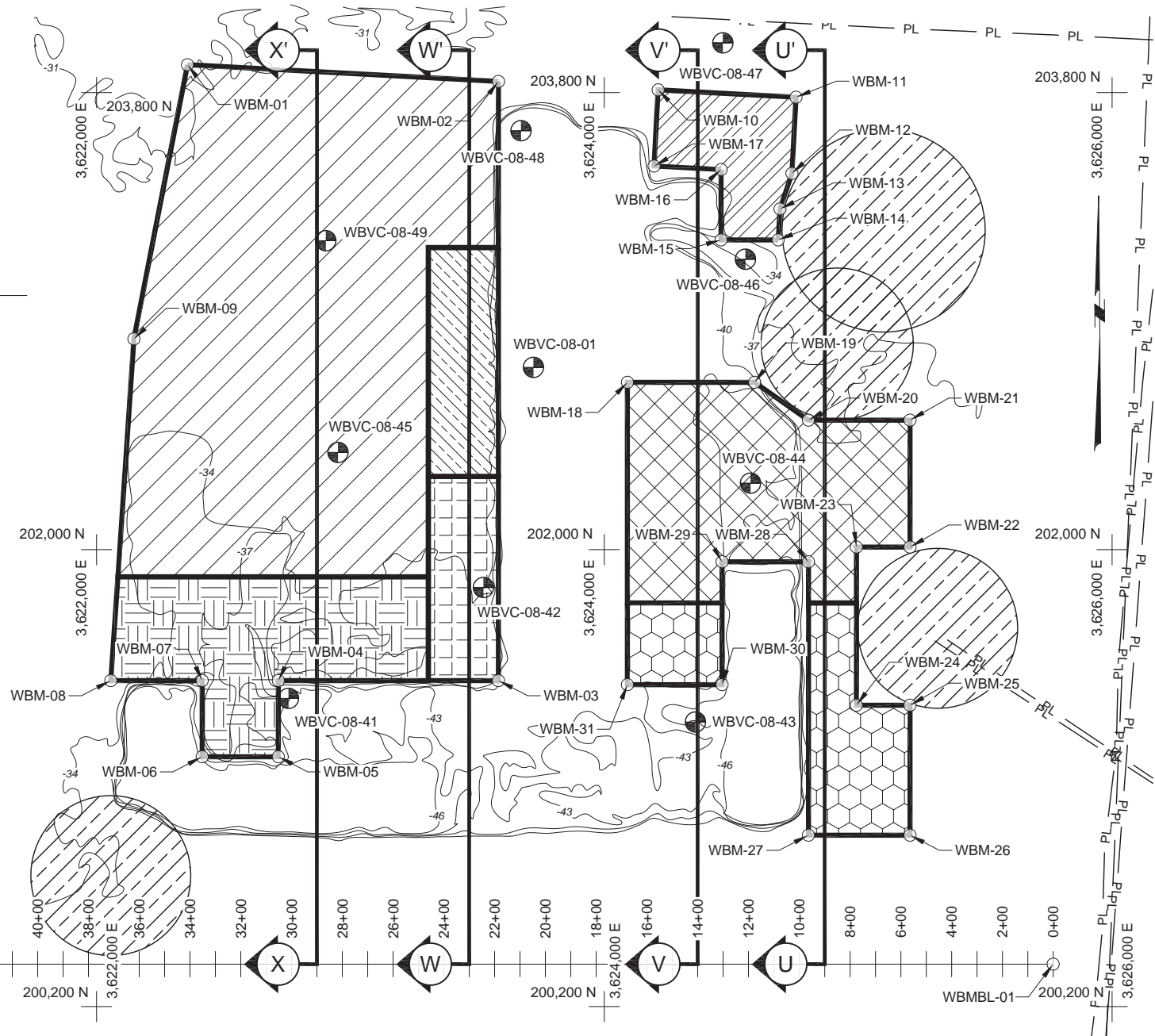
BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	EAST TIMBALIER MARSH BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 21 OF 37

NOTES:

- BORROW AREA DESIGN ADAPTED FROM WEST BELLE PASS BARRIER HEADLAND RESTORATION PROJECT (TE-52), MVN-2010-01801-WNN, P20100293.
- GEOTECHNICAL DATA FROM CPE, 2008.
- BATHYMETRIC SURVEYS FROM WMI, 2012.
- ELEVATIONS ARE NAVD88, U.S. SURVEY FEET.
- COORDINATES ARE NAD83, LA STATE PLANE, U.S. SURVEY FEET.
- PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT, LA DEPT. OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.
- SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

LEGEND

- DESIGN CUT TOE
- DESIGN CUT: -41.0 FT
MAX DISTURBANCE -44.0FT
- DESIGN CUT: -41.5 FT
MAX DISTURBANCE -44.5 FT
- DESIGN CUT: -43.5 FT
MAX DISTURBANCE -46.5 FT
- DESIGN CUT: -44.5 FT
MAX DISTURBANCE -47.5 FT
- DESIGN CUT: -47.0 FT
MAX DISTURBANCE -50.0 FT
- DESIGN CUT: -48.5 FT
MAX DISTURBANCE -51.5 FT
- DESIGN CUT: -50.0 FT
MAX DISTURBANCE: -53.0 FT
- BATHYMETRIC CONTOUR (WMI, 2012)
- VIBRACORE (CPE, 2008)
- POTENTIAL PIPELINES
- AVOIDANCE AREA (CPE, 2009)



BY	DESCRIPTION	DATE



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

EAST TIMBALIER ISLAND RESTORATION

WEST BELLE MARSH BORROW AREA PLAN VIEW

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.

STATE PROJECT NUMBER: TE-118

DATE: JANUARY 2017


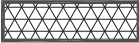
FEDERAL PROJECT NUMBER:
 NFWF 43353

SHEET 22 OF 37

- NOTES:
1. GEOPHYSICAL DATA FROM WMI, 2012.
 2. GEOTECHNICAL DATA FROM CPE, 2008.
 3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

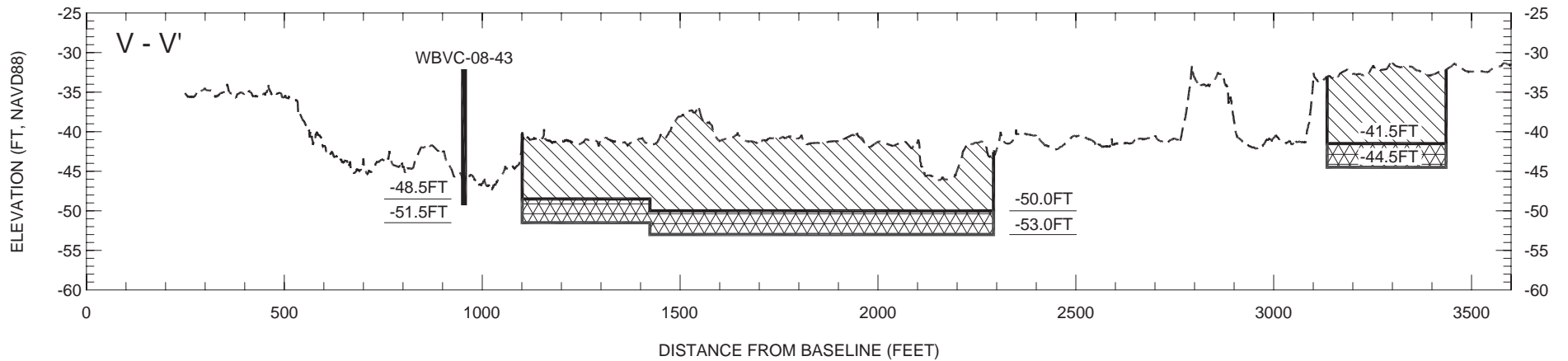
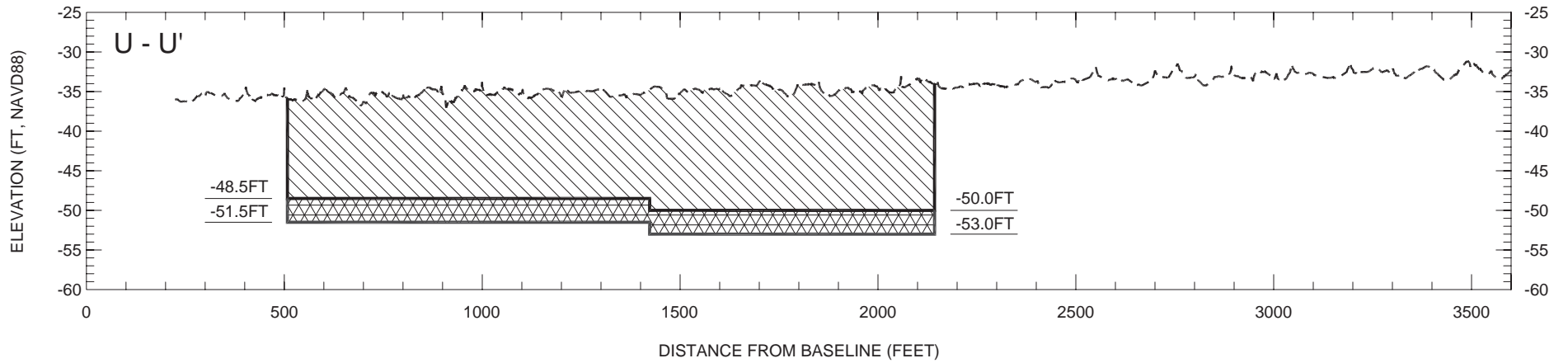
SCALE:
H: 1" = 400'
V: 1" = 20'


LEGEND:

- EXISTING GRADE (2012)
-  DESIGN DREDGE CUT
-  DESIGN LIMIT OF DISTURBANCE

WBVC-08-13

VIBRACORE
(CPE, 2008)



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	WEST BELLE MARSH BORROW AREA TYPICAL SECTIONS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 23 OF 37

- NOTES:
1. GEOPHYSICAL DATA FROM WMI, 2012.
 2. GEOTECHNICAL DATA FROM CPE, 2008.
 3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

SCALE:
H: 1" = 400'
V: 1" = 20'

LEGEND:

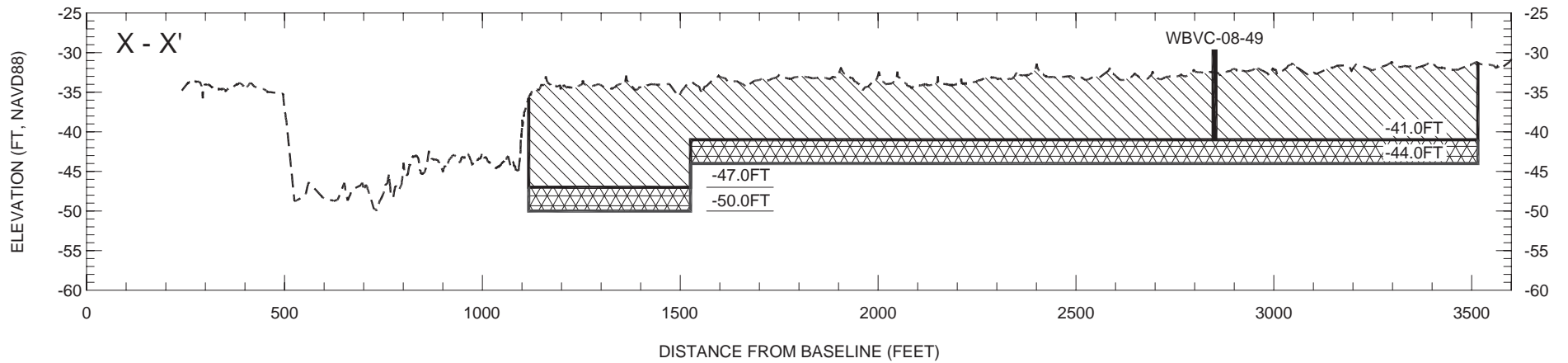
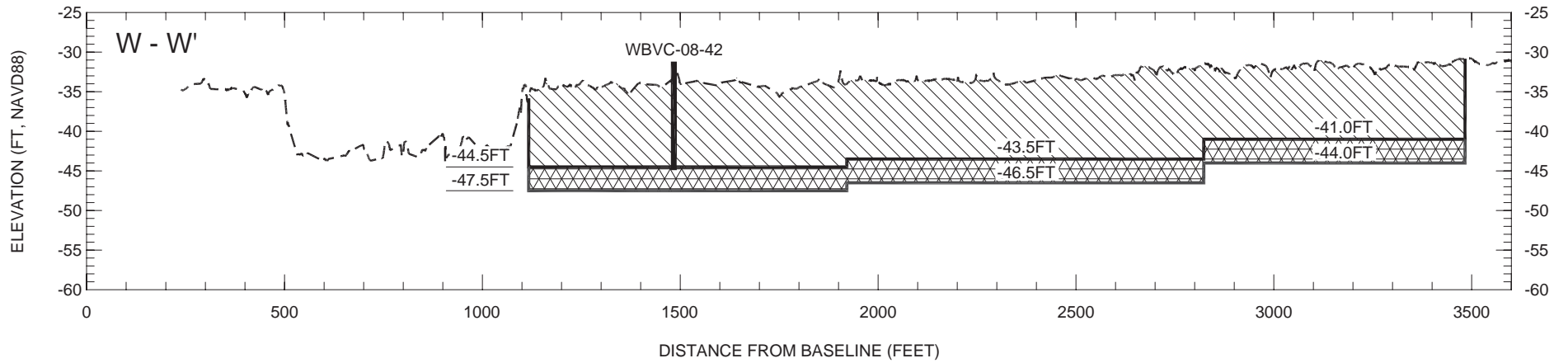
--- EXISTING GRADE (2012)


 DESIGN DREDGE CUT

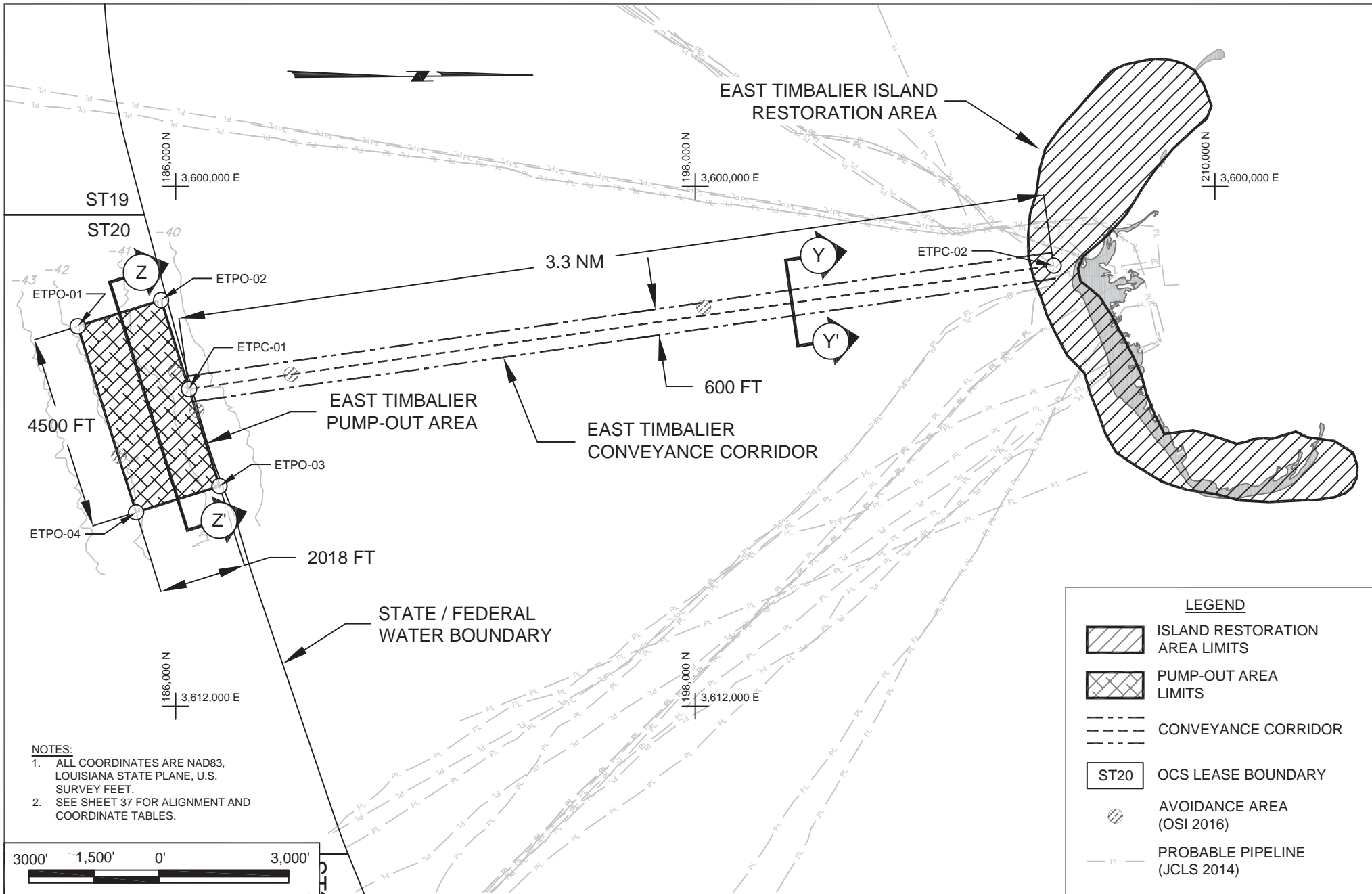
 DESIGN LIMIT OF DISTURBANCE

WBVC-08-13

VIBRACORE
(CPE, 2008)



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION STATE PROJECT NUMBER: TE-118	WEST BELLE MARSH BORROW AREA TYPICAL SECTIONS DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ						



BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

DESIGNED BY: MICHAEL T. POFF, P.E.
LICENSE NUMBER: 30048

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

APPROVED BY: TRAVIS BYLAND, P.E.

EAST TIMBALIER ISLAND RESTORATION

STATE PROJECT NUMBER: TE-118


FEDERAL PROJECT NUMBER: NFWF 43353

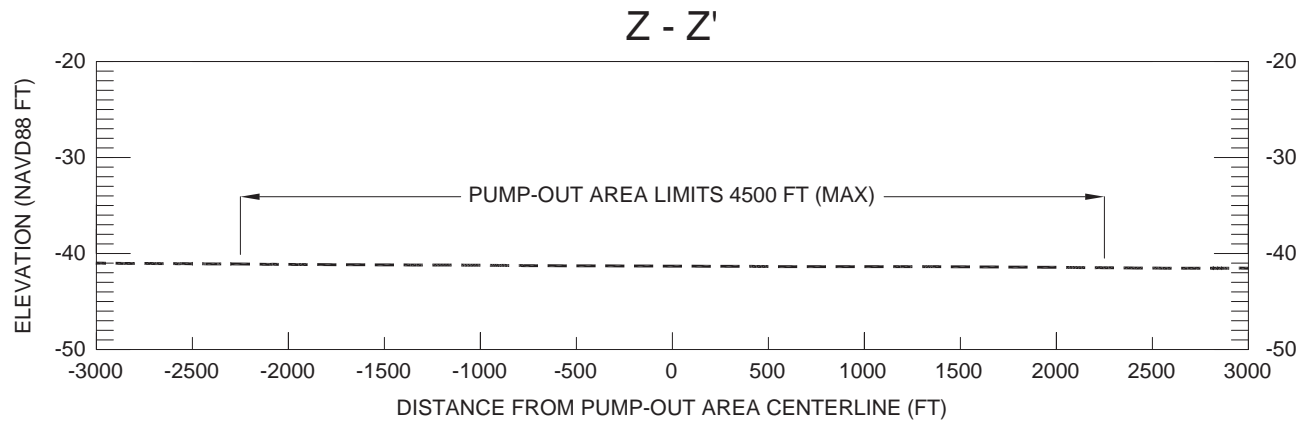
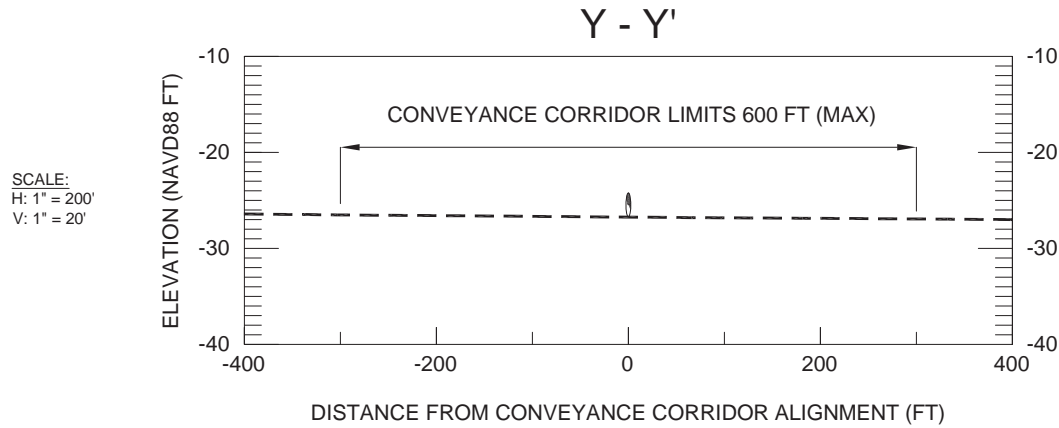
EAST TIMBALIER PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

DATE: JANUARY 2017

SHEET 25 OF 37


LEGEND

- EXISTING GRADE (OSI, 2016)
-  SUBMERGED SEDIMENT PIPELINE



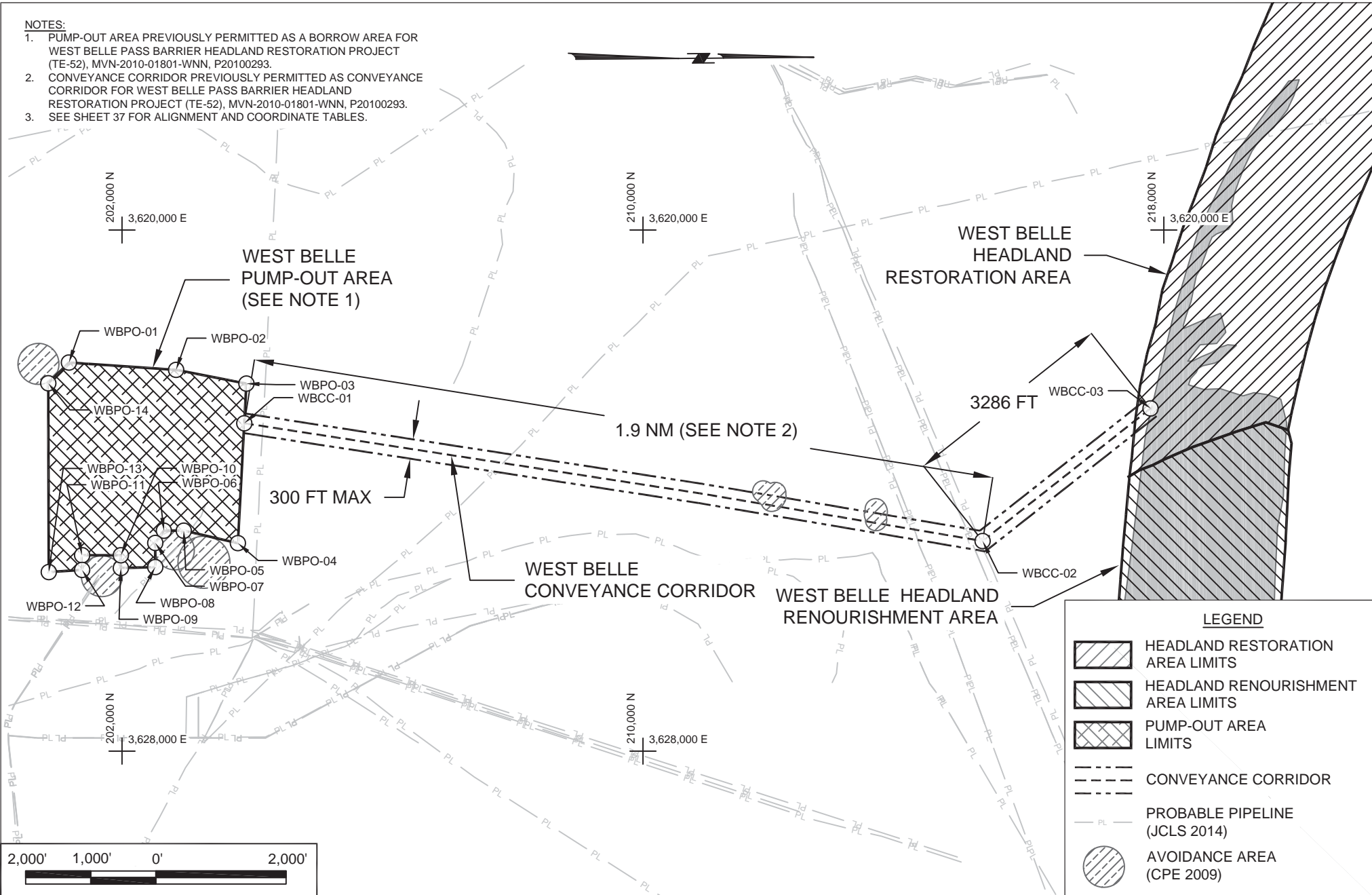
NOTES:

1. SURVEY PERFORMED BY OSI, 2016.
2. NO EXCAVATIONS OR FILLS ARE REQUIRED FOR THE CONVEYANCE CORRIDOR.
3. SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	EAST TIMBALIER PUMP-OUT & CONVEYANCE CORRIDOR TYPICAL SECTIONS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 26 OF 37

NOTES:

1. PUMP-OUT AREA PREVIOUSLY PERMITTED AS A BORROW AREA FOR WEST BELLE PASS BARRIER HEADLAND RESTORATION PROJECT (TE-52), MVN-2010-01801-WNN, P20100293.
2. CONVEYANCE CORRIDOR PREVIOUSLY PERMITTED AS CONVEYANCE CORRIDOR FOR WEST BELLE PASS BARRIER HEADLAND RESTORATION PROJECT (TE-52), MVN-2010-01801-WNN, P20100293.
3. SEE SHEET 37 FOR ALIGNMENT AND COORDINATE TABLES.



BY	DESCRIPTION	DATE



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

EAST TIMBALIER ISLAND RESTORATION

WEST BELLE PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

DRAWN BY: STEVE DARTEZ

DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.

STATE PROJECT NUMBER: TE-118

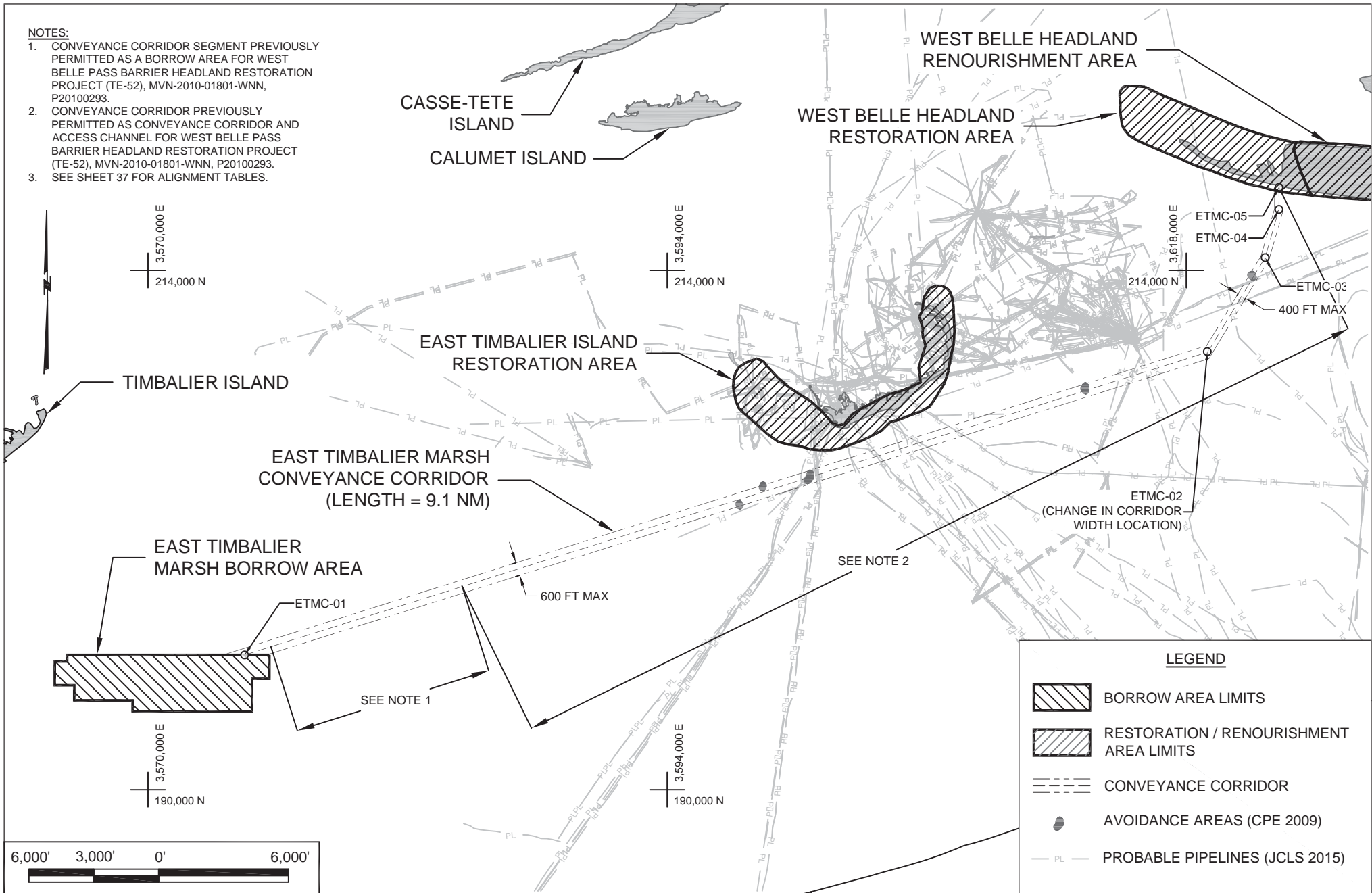
DATE: JANUARY 2017

FEDERAL PROJECT NUMBER:
 NFWF 43353

SHEET 27 OF 37

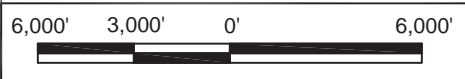
NOTES:

1. CONVEYANCE CORRIDOR SEGMENT PREVIOUSLY PERMITTED AS A BORROW AREA FOR WEST BELLE PASS BARRIER HEADLAND RESTORATION PROJECT (TE-52), MVN-2010-01801-WNN, P20100293.
2. CONVEYANCE CORRIDOR PREVIOUSLY PERMITTED AS CONVEYANCE CORRIDOR AND ACCESS CHANNEL FOR WEST BELLE PASS BARRIER HEADLAND RESTORATION PROJECT (TE-52), MVN-2010-01801-WNN, P20100293.
3. SEE SHEET 37 FOR ALIGNMENT TABLES.

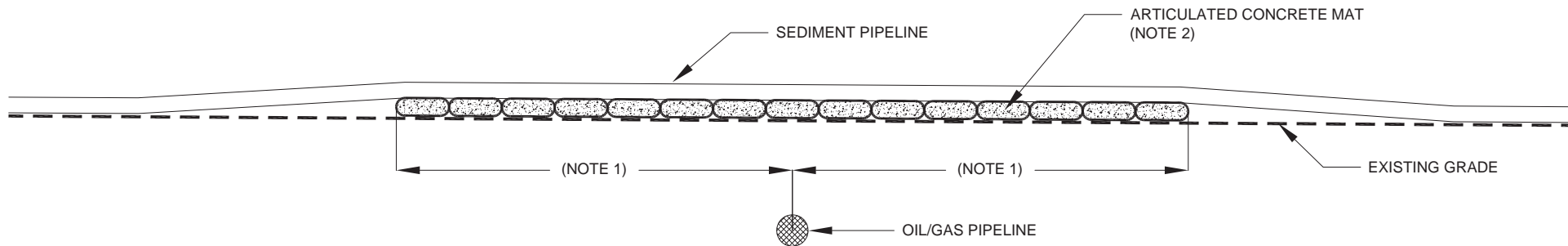


LEGEND

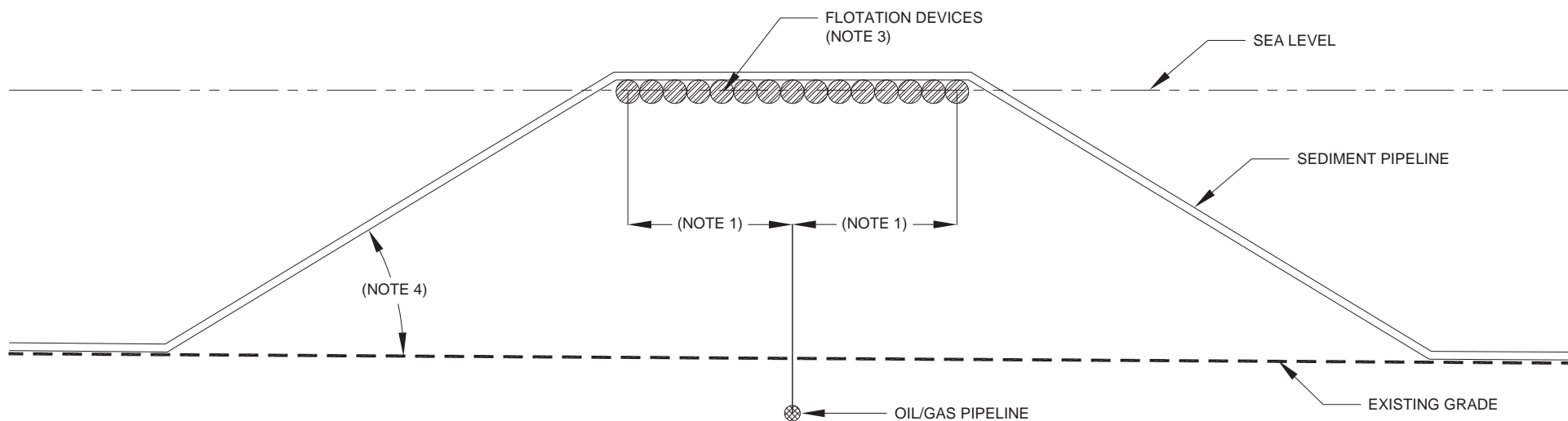
- BORROW AREA LIMITS
- RESTORATION / RENOURISHMENT AREA LIMITS
- CONVEYANCE CORRIDOR
- AVOIDANCE AREAS (CPE 2009)
- PROBABLE PIPELINES (JCLS 2015)



BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	EAST TIMBALIER MARSH CONVEYANCE CORRIDOR PLAN VIEW
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 28 OF 37




**OPTIONAL ARTICULATED CONCRETE MAT PROTECTION CROSSING
(NOT TO SCALE)**

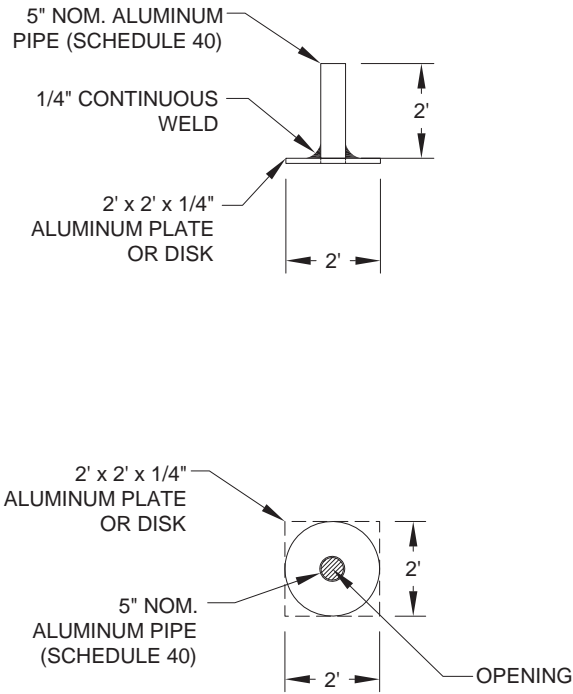


**OPTIONAL FLOTATION CROSSING
(NOT TO SCALE)**

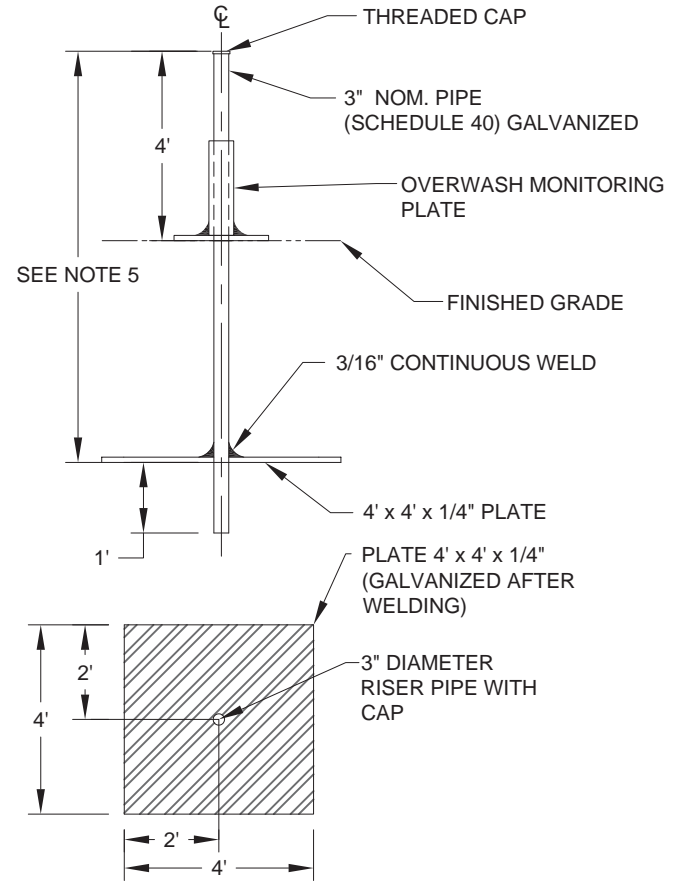
NOTES:

1. MEANS AND METHODS OF SEDIMENT PIPELINE CROSSING OF AN OIL/GAS PIPELINE SHALL BE COORDINATED BY THE CONSTRUCTION CONTRACTOR WITH THE OIL/GAS PIPELINE OPERATOR.
2. ARTICULATED CONCRETE MAT CONSTRUCTION AND COVERAGE AREA SHALL BE COORDINATED BY THE CONSTRUCTION CONTRACTOR WITH THE OIL/GAS PIPELINE OPERATOR
3. FLOTATION DEVICE CONSTRUCTION AND PLACEMENT SHALL BE DETERMINED BY INDUSTRY STANDARDS FOR SEDIMENT PIPELINE SUPPORT AND CONSTRUCTION CONTRACTOR STANDARD EQUIPMENT.
4. ANGLE OF SEDIMENT PIPELINE DEPARTURE FROM EXISTING GRADE SHALL BE DETERMINED BY INDUSTRY STANDARDS FOR SEDIMENT PIPELINE SUPPORT AND CONSTRUCTION CONTRACTOR EQUIPMENT.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	OPTIONAL SEDIMENT PIPELINE CROSSING TYPICAL DETAILS
						STATE PROJECT NUMBER: TE-118
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 29 OF 37




OVERWASH MONITORING PLATE
(NOT TO SCALE)

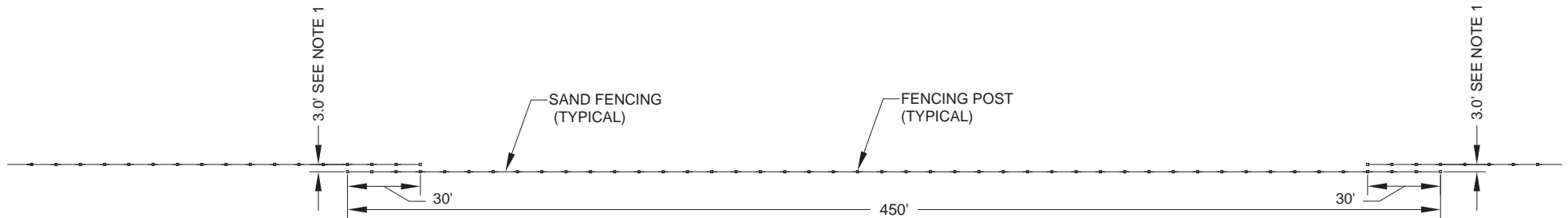


SETTLEMENT PLATE
(NOT TO SCALE)

SETTLEMENT AND OVERWASH MONITORING SYSTEM NOTES:

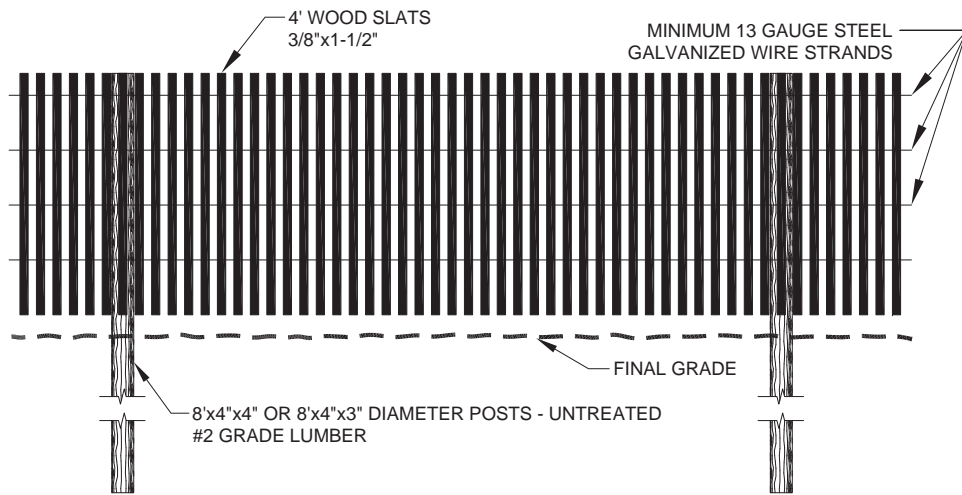
1. SETTLEMENT PLATES SHALL BE CONSTRUCTED USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. ALL SETTLEMENT PLATES SHALL BE SURVEYED WITHIN A DAY OF INSTALLATION AND WEEKLY THROUGHOUT THE DURATION OF THE PROJECT.
3. ALL SETTLEMENT PLATES MUST BE INSTALLED AND MAINTAINED WITHIN 10.5 DEGREES OF VERTICAL.
4. ALL SETTLEMENT PLATES SHALL BE MARKED WITH SURVEY FLAGGING.
5. LENGTH OF THE SETTLEMENT PLATE RISER PIPE SHALL BE SUCH THAT THE ELEVATION OF THE TOP CAP BE NO LESS THAN 4 FEET ABOVE MAXIMUM FINAL DESIGN GRADE FOR ITS LOCATION.
6. OVERWASH MONITORING PLATES SHALL BE FABRICATED USING 6061-TS GRADE ALUMINUM PER SPECIFICATION TS-16.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SETTLEMENT AND OVERWASH MONITORING DETAILS
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 30 OF 37

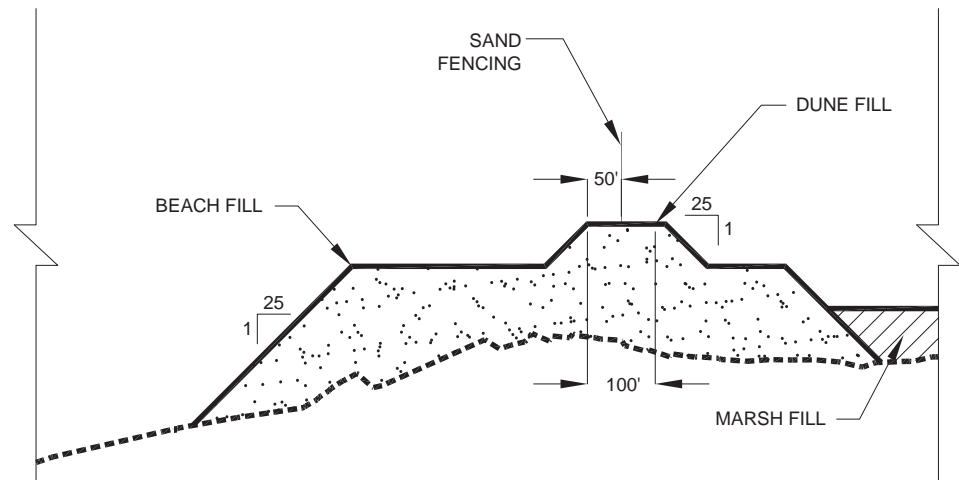


NOTES:
 1. THE DISTANCE BETWEEN FENCES SHALL BE INCREASED FROM 3.0' TO 8.0' AT EVERY FIFTH GAP TO ALLOW ALL-TERRAIN VEHICLE ACCESS.


FENCING GAPPING DIMENSIONS
 NOT TO SCALE



FENCING DETAIL
 NOT TO SCALE



FENCING SECTION TYPICAL
 NOT TO SCALE

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	SAND FENCING DETAILS
					DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.
DRAWN BY: STEVE DARTEZ					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 31 OF 37

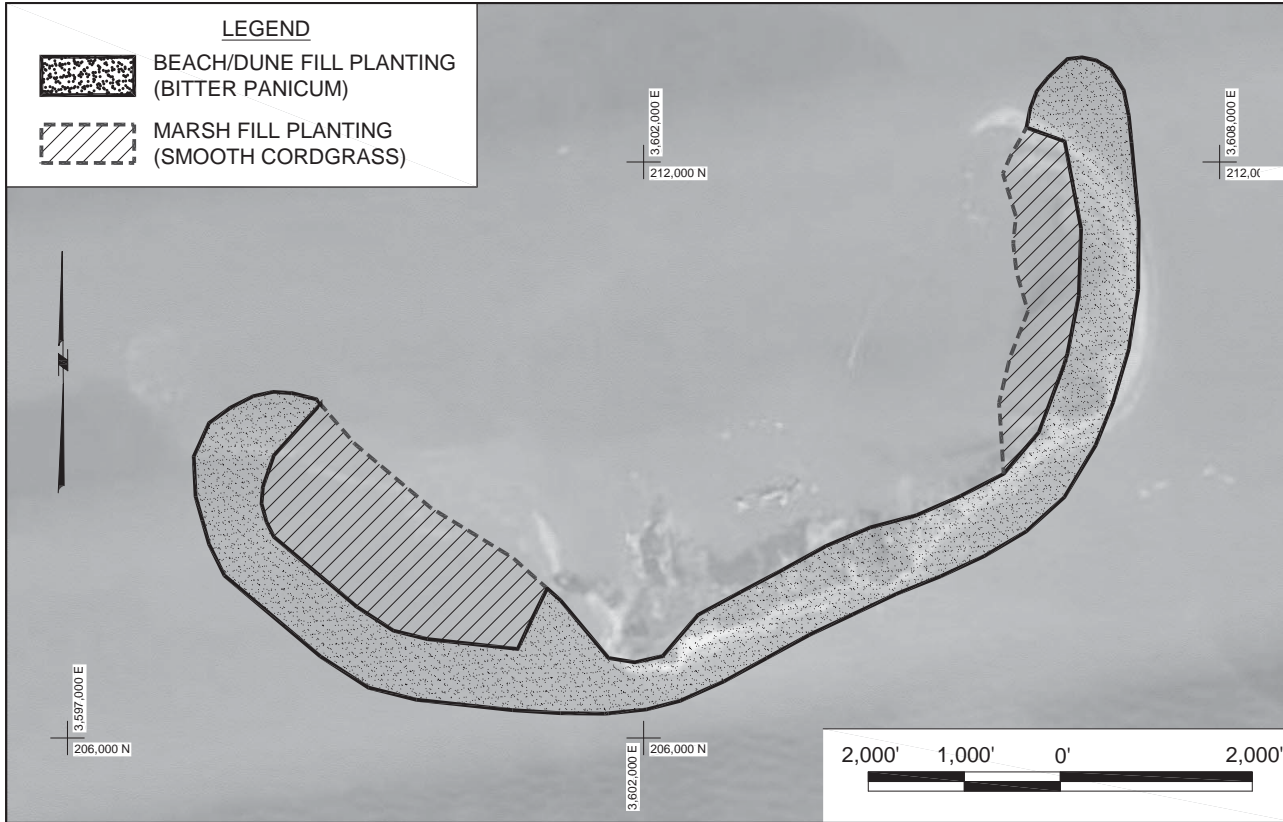
LEGEND



BEACH/DUNE FILL PLANTING
(BITTER PANICUM)

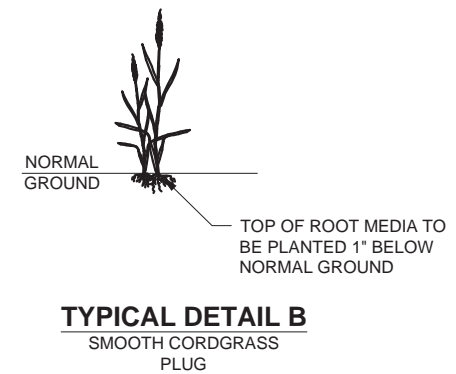
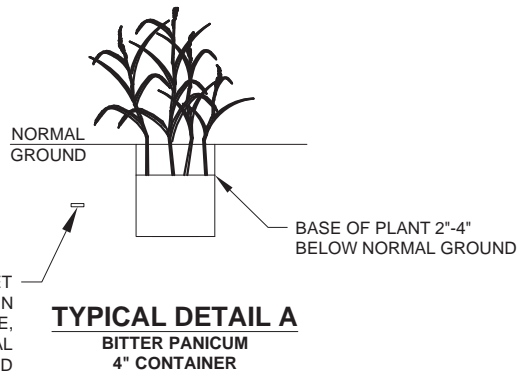



MARSH FILL PLANTING
(SMOOTH CORDGRASS)





NOTES:

1. BITTER PANICUM PLANTS SHALL BE PLANTED ON SEVEN (7) FOOT CENTERS WITH ROWS TEN (10) FOOT APART.
2. SMOOTH CORDGRASS PLANTS SHALL BE PLANTED ON THREE (3) FOOT CENTERS WITH ROWS THREE (3) FOOT APART.
3. SPECIES OF PLANTS ARE SUBJECT TO CHANGE DUE TO SITE CONDITIONS AND / OR CONSTRUCTION VARIABLES.

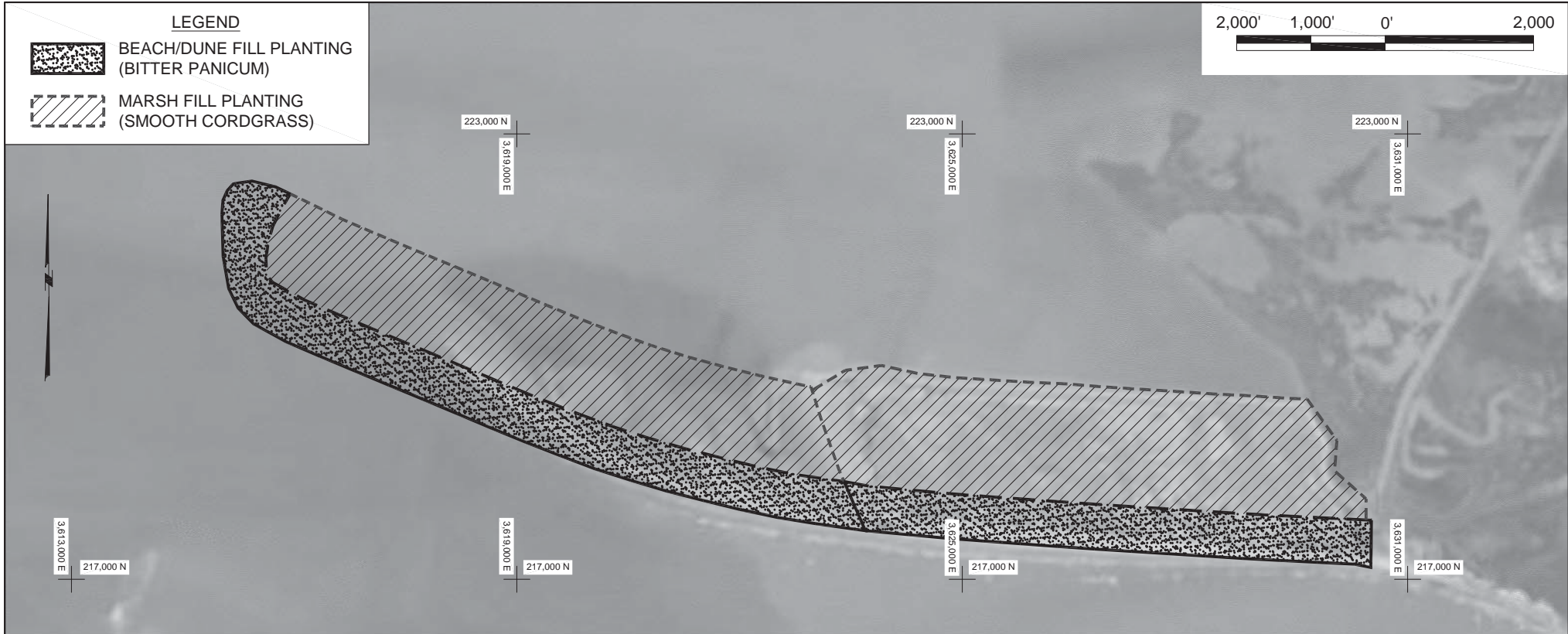


BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	EAST TIMBALIER ISLAND VEGETATIVE PLANTING DETAILS
					DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.
DRAWN BY: STEVE DARTEZ					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 32 OF 37

LEGEND

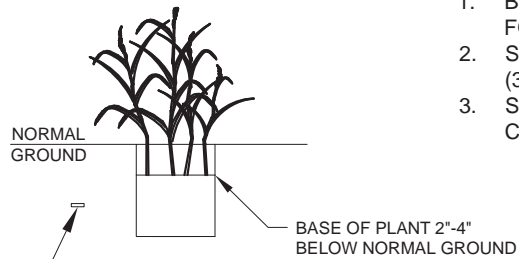
-  BEACH/DUNE FILL PLANTING (BITTER PANICUM)
-  MARSH FILL PLANTING (SMOOTH CORDGRASS)

2,000' 1,000' 0' 2,000'

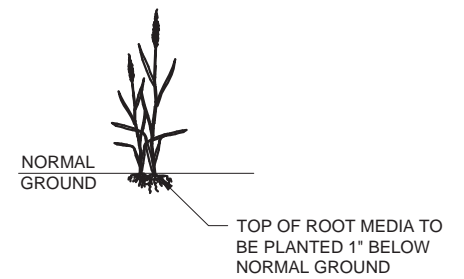



NOTES:


1. BITTER PANICUM PLANTS SHALL BE PLANTED ON SEVEN (7) FOOT CENTERS WITH ROWS TEN (10) FOOT APART.
2. SMOOTH CORDGRASS PLANTS SHALL BE PLANTED ON THREE (3) FOOT CENTERS WITH ROWS THREE (3) FOOT APART.
3. SPECIES OF PLANTS ARE SUBJECT TO CHANGE DUE TO SITE CONDITIONS AND / OR CONSTRUCTION VARIABLES.



TYPICAL DETAIL A
BITTER PANICUM
4" CONTAINER



TYPICAL DETAIL B
SMOOTH CORDGRASS
PLUG

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	WEST BELLE HEADLAND VEGETATIVE PLANTING DETAILS
					STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 33 OF 37
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.		

EAST TIMBALIER ISLAND RESTORATION AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ET-01	213,074.02	3,606,638.98	29° 04' 54.84" N	90° 18' 48.28" W
ET-02	209,106.04	3,597,394.27	29° 04' 16.37" N	90° 20' 32.84" W

WEST BELLE HEADLAND FEEDER BEACH AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
FB-01	215,165.12	3,633,841.53	29° 05' 13.05" N	90° 13' 41.50" W
FB-02	217,260.14	3,629,160.80	29° 05' 34.23" N	90° 14' 34.03" W

EAST TIMBALIER ISLAND ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETAC-01	213,272.58	3,597,705.51	29° 04' 57.58" N	90° 20' 28.93" W
ETAC-02	212,454.63	3,600,414.11	29° 04' 49.25" N	90° 19' 58.49" W
ETAC-03	209,171.00	3,601,561.00	29° 04' 16.65" N	90° 19' 45.89" W
ETAC-04	207,697.13	3,601,806.43	29° 04' 02.04" N	90° 19' 43.27" W


WEST BELLE HEADLAND BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBBL-01	215,103.43	3,634,909.20	29° 05' 12.33" N	90° 13' 29.48" W
WBBL-02	215,103.43	3,622,909.20	29° 05' 13.46" N	90° 15' 44.71" W
WBBL-03	219,673.64	3,612,904.60	29° 05' 59.61" N	90° 17' 36.99" W

EAST TIMBALIER ISLAND RESTORATION AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETBL-01	211,944.28	3,610,737.03	29° 04' 43.30" N	90° 18' 2.21" W
ETBL-02	208,976.10	3,606,876.38	29° 04' 14.26" N	90° 18' 46.01" W
ETBL-03	206,926.66	3,601,664.87	29° 03' 54.42" N	90° 19' 44.94" W
ETBL-04	206,926.66	3,596,134.95	29° 03' 54.90" N	90° 20' 47.24" W

WEST BELLE HEADLAND ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBAC-01	217,645.16	3,615,892.83	29° 05' 39.27" N	90° 17' 03.52" W
WBAC-02	221,521.00	3,613,887.17	29° 06' 17.81" N	90° 17' 25.73" W
WBAC-03	222,731.99	3,614,010.76	29° 06' 29.79" N	90° 17' 24.21" W
WBAC-04	223,471.55	3,614,638.16	29° 06' 37.05" N	90° 17' 17.06" W
WBAC-05	223,566.68	3,615,287.22	29° 06' 37.94" N	90° 17' 09.74" W
WBAC-06	223,435.44	3,615,809.60	29° 06' 36.59" N	90° 17' 03.86" W
WBAC-07	223,163.53	3,616,023.79	29° 06' 33.88" N	90° 17' 01.48" W
WBAC-08	222,826.76	3,616,028.28	29° 06' 30.55" N	90° 17' 01.46" W
WBAC-09	221,994.96	2,615,593.91	29° 05' 37.66" N	93° 24' 58.23" W
WBAC-10	227,843.89	3,613,062.13	29° 07' 20.48" N	90° 17' 34.38" W
WBAC-11	222,234.16	3,616,613.81	29° 06' 24.63" N	90° 16' 54.92" W

WEST BELLE HEADLAND RESTORATION AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WB-01	217,653.90	3,623,694.60	29° 05' 38.64" N	90° 15' 35.59" W
WB-02	222,169.29	3,615,069.37	29° 06' 24.12" N	90° 17' 12.34" W

WEST BELLE HEADLAND RENOURISHMENT AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBN-01	217,159.66	3,630,505.30	29° 05' 33.11" N	90° 14' 18.89" W
WBN-02	217,653.90	3,623,694.60	29° 05' 38.64" N	90° 15' 35.59" W

BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	ALIGNMENT AND COORDINATE TABLES		
							STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 34 OF 37

SHIP SHOAL BORROW AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
SS-01	151,207.85	3,492,320.75	28° 54' 50.73" N	90° 40' 20.59" W
SS-02	149,356.59	3,497,235.39	28° 54' 32.12" N	90° 39' 25.42" W
SS-03	148,929.76	3,498,235.39	28° 54' 27.83" N	90° 39' 14.20" W
SS-04	148,659.33	3,498,235.39	28° 54' 25.16" N	90° 39' 14.22" W
SS-05	147,409.44	3,501,553.54	28° 54' 12.59" N	90° 38' 36.97" W
SS-06	146,743.44	3,501,249.85	28° 54' 06.01" N	90° 38' 40.43" W
SS-07	146,743.44	3,491,980.64	28° 54' 06.55" N	90° 40' 24.71" W
SS-08	147,730.12	3,491,980.64	28° 54' 16.32" N	90° 40' 24.64" W
SS-09	147,730.12	3,491,738.73	28° 54' 16.33" N	90° 40' 27.36" W
SS-10	149,445.75	3,491,738.73	28° 54' 33.32" N	90° 40' 27.25" W
SS-11	149,925.54	3,492,320.75	28° 54' 38.03" N	90° 40' 20.67" W


SHIP SHOAL BORROW AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
SSBL-01	146,243.44	3,502,079.82	28° 54' 01.01" N	90° 38' 31.13" W
SSBL-02	146,243.44	3,491,279.82	28° 54' 01.64" N	90° 40' 32.62" W

SOUTH PEL TO BORROW AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
SP-01	150,392.85	3,506,277.54	28° 54' 41.84" N	90° 37' 43.63" W
SP-02	148,960.81	3,507,005.98	28° 54' 27.62" N	90° 37' 35.53" W
SP-03	149,791.57	3,508,641.67	28° 54' 35.74" N	90° 37' 17.07" W
SP-04	148,764.58	3,510,748.41	28° 54' 25.44" N	90° 36' 53.44" W
SP-05	146,840.74	3,506,965.98	28° 54' 06.63" N	90° 37' 36.13" W
SP-06	149,134.09	3,505,516.48	28° 54' 29.42" N	90° 37' 52.27" W
SP-07	152,880.88	3,507,781.83	28° 55' 06.37" N	90° 37' 26.53" W
SP-08	152,502.45	3,510,367.52	28° 55' 02.47" N	90° 36' 57.46" W
SP-09	152,888.79	3,511,334.60	28° 55' 06.23" N	90° 36' 46.56" W
SP-10	152,481.63	3,511,944.52	28° 55' 02.16" N	90° 36' 39.72" W
SP-11	151,877.90	3,510,430.43	28° 54' 56.28" N	90° 36' 56.80" W
SP-12	152,190.12	3,507,364.19	28° 54' 59.56" N	90° 37' 31.28" W

SOUTH PEL TO BORROW AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
SPBL-01	150,630.66	3,516,930.09	28° 54' 43.53" N	90° 35' 43.76" W
SPBL-02	145,552.75	3,506,947.36	28° 53' 53.88" N	90° 37' 36.43" W

EAST TIMBALIER MARSH BORROW AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETM-01	195,815.00	3,565,800.00	29° 02' 07.37" N	90° 26' 30.01" W
ETM-02	195,815.00	3,566,370.00	29° 02' 07.32" N	90° 26' 23.59" W
ETM-03	196,115.00	3,566,370.00	29° 02' 10.29" N	90° 26' 23.56" W
ETM-04	196,115.00	3,575,500.00	29° 02' 09.58" N	90° 24' 40.72" W
ETM-05	195,235.00	3,575,500.00	29° 02' 00.87" N	90° 24' 40.80" W
ETM-06	195,235.00	3,574,700.00	29° 02' 00.93" N	90° 24' 49.81" W
ETM-07	193,735.00	3,574,700.00	29° 01' 46.08" N	90° 24' 49.95" W
ETM-08	193,735.00	3,569,400.00	29° 01' 46.50" N	90° 25' 49.65" W
ETM-09	194,235.00	3,569,400.00	29° 01' 51.45" N	90° 25' 49.60" W
ETM-10	194,235.00	3,566,700.00	29° 01' 51.66" N	90° 26' 20.01" W
ETM-11	194,935.00	3,566,700.00	29° 01' 58.59" N	90° 26' 19.95" W
ETM-12	194,935.00	3,565,800.00	29° 01' 58.66" N	90° 26' 30.09" W

EAST TIMBALIER MARSH BORROW AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETMBL-01	192,310.00	3,576,450.00	29° 01' 31.83" N	90° 24' 30.37" W
ETMBL-02	192,310.00	3,564,650.00	29° 01' 32.76" N	90° 26' 43.27" W


BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	ALIGNMENT AND COORDINATE TABLES			
								STATE PROJECT NUMBER: TE-118	DATE: JANUARY 2017
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.					FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 35 OF 37	

WEST BELLE MARSH BORROW AREA BOUNDARY

PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE	PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBM-01	203,910.00	3,622,358.00	29° 03' 22.71" N	90° 15' 52.10" W	WBM-17	203,511.00	3,624,196.00	29° 03' 18.59" N	90° 15' 31.44" W
WBM-02	203,844.00	3,623,583.00	29° 03' 21.94" N	90° 15' 38.31" W	WBM-18	202,659.00	3,624,091.00	29° 03' 10.17" N	90° 15' 32.71" W
WBM-03	201,484.00	3,623,583.00	29° 02' 58.58" N	90° 15' 38.56" W	WBM-19	202,659.00	3,624,592.00	29° 03' 10.12" N	90° 15' 27.06" W
WBM-04	201,484.00	3,622,716.00	29° 02' 58.66" N	90° 15' 48.32" W	WBM-20	202,510.00	3,624,804.00	29° 03' 08.62" N	90° 15' 24.69" W
WBM-05	201,184.00	3,622,716.00	29° 02' 55.69" N	90° 15' 48.35" W	WBM-21	202,510.00	3,625,204.00	29° 03' 08.59" N	90° 15' 20.19" W
WBM-06	201,184.00	3,622,416.00	29° 02' 55.72" N	90° 15' 51.73" W	WBM-22	202,010.00	3,625,204.00	29° 03' 03.64" N	90° 15' 20.24" W
WBM-07	201,484.00	3,622,416.00	29° 02' 58.69" N	90° 15' 51.70" W	WBM-23	202,010.00	3,624,993.00	29° 03' 03.66" N	90° 15' 22.62" W
WBM-08	201,484.00	3,622,056.00	29° 02' 58.72" N	90° 15' 55.76" W	WBM-24	201,387.00	3,624,993.00	29° 02' 57.49" N	90° 15' 22.68" W
WBM-09	202,830.00	3,622,147.00	29° 03' 12.04" N	90° 15' 54.59" W	WBM-25	201,387.00	3,625,204.00	29° 02' 57.47" N	90° 15' 20.30" W
WBM-10	203,811.00	3,624,212.00	29° 03' 21.56" N	90° 15' 31.22" W	WBM-26	200,875.00	3,625,204.00	29° 02' 52.40" N	90° 15' 20.36" W
WBM-11	203,782.00	3,624,755.00	29° 03' 21.22" N	90° 15' 25.11" W	WBM-27	200,875.00	3,624,804.00	29° 02' 52.44" N	90° 15' 24.87" W
WBM-12	203,482.00	3,624,739.00	29° 03' 18.25" N	90° 15' 25.32" W	WBM-28	201,952.00	3,624,804.00	29° 03' 03.10" N	90° 15' 24.75" W
WBM-13	203,342.00	3,624,692.00	29° 03' 16.87" N	90° 15' 25.87" W	WBM-29	201,952.00	3,624,464.00	29° 03' 3.13" N	90° 15' 28.58" W
WBM-14	203,220.00	3,624,685.00	29° 03' 15.66" N	90° 15' 25.96" W	WBM-30	201,468.00	3,624,464.00	29° 02' 58.34" N	90° 15' 28.63" W
WBM-15	203,220.00	3,624,460.00	29° 03' 15.68" N	90° 15' 28.49" W	WBM-31	201,468.00	3,624,091.00	29° 02' 58.38" N	90° 15' 32.83" W
WBM-16	203,497.00	3,624,460.00	29° 03' 18.43" N	90° 15' 28.46" W					

WEST BELLE MARSH BORROW AREA BASELINE ALIGNMENT

PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBMBL-01	200,367.00	3,625,768.00	29° 02' 47.32" N	90° 15' 14.06" W
WBMBL-02	200,367.00	3,621,568.00	29° 02' 47.71" N	90° 16' 01.37" W

BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION STATE PROJECT NUMBER: TE-118	ALIGNMENT AND COORDINATE TABLES DATE: JANUARY 2017


EAST TIMBALIER PUMP-OUT AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETPO-01	183,739.63	3,603,228.67	29° 00' 04.76" N	90° 19' 29.62" W
ETPO-02	185,665.03	3,602,624.37	29° 00' 23.87" N	90° 19' 36.23" W
ETPO-03	187,012.58	3,606,917.87	29° 00' 36.84" N	90° 18' 47.75" W
ETPO-04	185,087.12	3,607,522.19	29° 00' 17.72" N	90° 18' 41.14" W

EAST TIMBALIER CONVEYANCE CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETPC-01	186,309.31	3,604,677.11	29° 00' 30.07" N	90° 19' 13.05" W
ETPC-02	206,276.49	3,601,826.91	29° 03' 47.97" N	90° 19' 43.18" W

EAST TIMBALIER MARSH CONVEYANCE CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
ETMC-01	196,225.00	3,574,463.78	29° 02' 10.75" N	90° 24' 52.39" W
ETMC-02	210,247.23	3,618,974.15	29° 04' 25.75" N	90° 16' 29.56" W
ETMC-03	214,597.00	3,621,645.99	29° 05' 08.57" N	90° 15' 59.00" W
ETMC-04	216,823.30	3,622,284.40	29° 05' 30.54" N	90° 15' 51.57" W
ETMC-05	217,843.52	3,622,284.43	29° 05' 40.64" N	90° 15' 51.47" W

WEST BELLE PUMP-OUT AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBPO-01	201,184.00	3,622,035.00	29° 02' 55.75" N	90° 15' 56.03" W
WBPO-02	202,830.00	3,622,147.00	29° 03' 12.04" N	90° 15' 54.59" W
WBPO-03	203,910.00	3,622,358.00	29° 03' 22.71" N	90° 15' 52.10" W
WBPO-04	203,779.00	3,624,807.00	29° 03' 21.19" N	90° 15' 24.52" W
WBPO-05	202,948.00	3,624,616.00	29° 03' 12.98" N	90° 15' 26.76" W
WBPO-06	202,642.13	3,624,616.00	29° 03' 09.95" N	90° 15' 26.80" W
WBPO-07	202,510.00	3,624,804.00	29° 03' 08.62" N	90° 15' 24.69" W
WBPO-08	202,510.00	3,625,174.00	29° 03' 08.59" N	90° 15' 20.52" W
WBPO-09	201,982.00	3,625,189.00	29° 03' 03.36" N	90° 15' 20.41" W
WBPO-10	201,982.00	3,624,993.00	29° 03' 03.38" N	90° 15' 22.62" W
WBPO-11	201,387.00	3,624,993.00	29° 02' 57.49" N	90° 15' 22.68" W
WBPO-12	201,387.00	3,625,218.00	29° 02' 57.47" N	90° 15' 20.15" W
WBPO-13	200,875.00	3,625,251.00	29° 02' 52.40" N	90° 15' 19.83" W
WBPO-14	200,867.00	3,622,353.00	29° 02' 52.59" N	90° 15' 52.48" W

WEST BELLE CONVEYANCE CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATTITUDE	LONGITUDE
WBCC-01	203,877.18	3,622,967.24	29° 03' 22.33" N	90° 15' 45.24" W
WBCC-02	215,215.95	3,624,775.01	29° 05' 14.40" N	90° 15' 23.67" W
WBCC-03	217,795.08	3,622,738.98	29° 05' 40.12" N	90° 15' 46.35" W

BY	DESCRIPTION	DATE		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	EAST TIMBALIER ISLAND RESTORATION	ALIGNMENT AND COORDINATE TABLES
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER: NFWF 43353	SHEET 37 OF 37