

JOINT PUBLIC NOTICE

May 21, 2018

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
Water Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(504) 862-1217
Project Manager
Kenny Blanke
Kenneth.G.Blanke@usace.army.mil
MVN 2018-0532-CQ

(225) 219-3225
Project Manager
Ms. Elizabeth Hill
WQC Application Number
WQC 180517-03

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).

TIMBALIER ISLAND AND TRINITY EAST ISLANDS RESTORATION PROJECT IN TERREBONNE 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 Lake Pelto and Terrebonne Bay, south of Cocodrie, Louisiana, located in Terrebonne Parish, as shown on the enclosed drawings (Latitude 29.06678 N Longitude -90.48855 W). This project is located in Terrebonne Basin (West Central Louisiana Coastal HUC 08090302).

CHARACTER OF WORK: The applicant is requesting a Department of the Army permit authorization for the Restoration of Timbalier Island and Trinity East Islands through beach and dune fill placement utilizing offshore sand material located in federal waters. The project is a part of the Terrebonne Basin Barrier Island and Beach Nourishment Restoration Project (TE-143) located south of Cocodrie, Louisiana, in Terrebonne Parish. The project has been designed to restore the geomorphic and ecologic form and function of the barrier island features at Timbalier Island and Trinity East Island to provide and protect critical habitats. The project proposes to add sand material in areas most susceptible to breaching and provide benefits through the restoration and sustaining of important coastal habitats such as nesting habitat for numerous shorebird species. The applicant has stated that they have designed this project to be synergistic with currently implemented and future restoration projects. Approximately 16,130,359 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 981 acres of beach, dune, and marsh habitat are proposed to be created as a result of the fill placement. Approximately 921 acres of

waterbottoms would be impacted through dredging activities at the borrow sites. Approximately 91 acres of wetlands would be impacted as a result of the fill placement. Created beach and dune habitat and marsh platform habitat are proposed to be replanted with appropriate native ecospecies. 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 neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Utilizing 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, the Corps has determined that with the inclusion of special conditions, the proposed activity is not likely adversely affect the West Indian manatee (*Trichechus manatus*).

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 1,902 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.

for JOHN M. HERMAN
Chief, Central Evaluation Section
Regulatory Branch

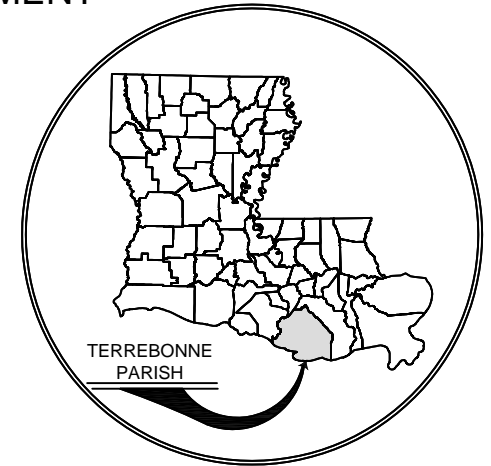
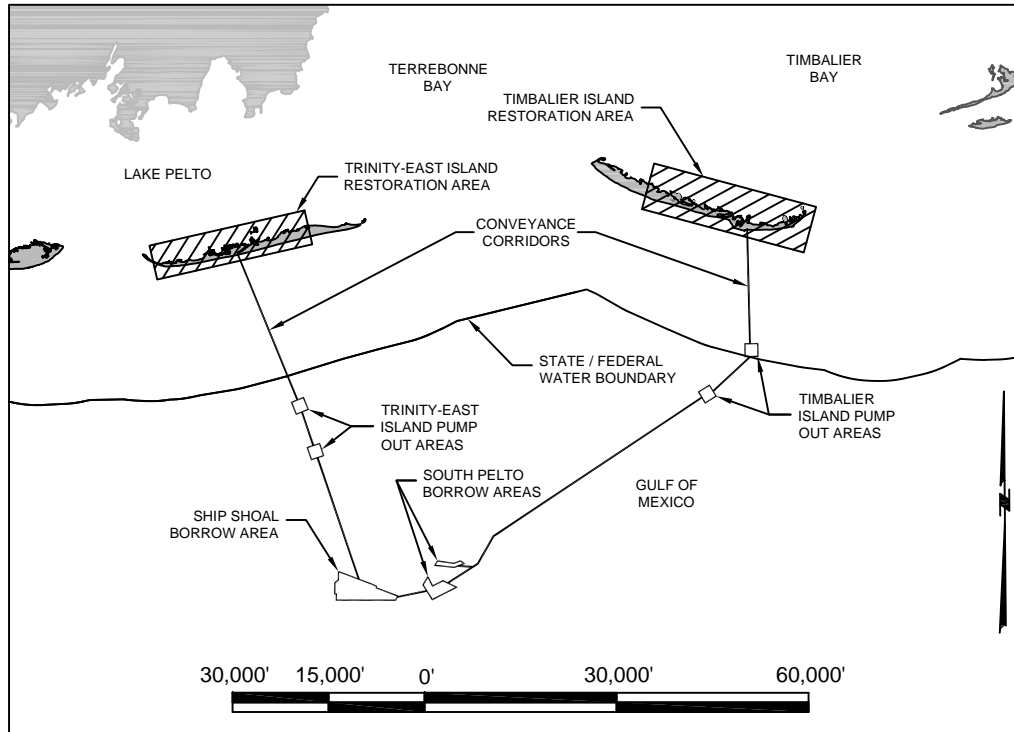
Enclosure

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT
STATE PROJECT NO. TE-143
TERREBONNE PARISH, LOUISIANA
PRELIMINARY

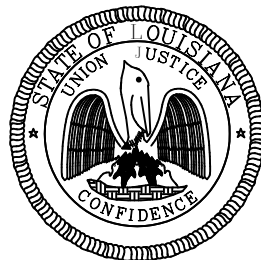
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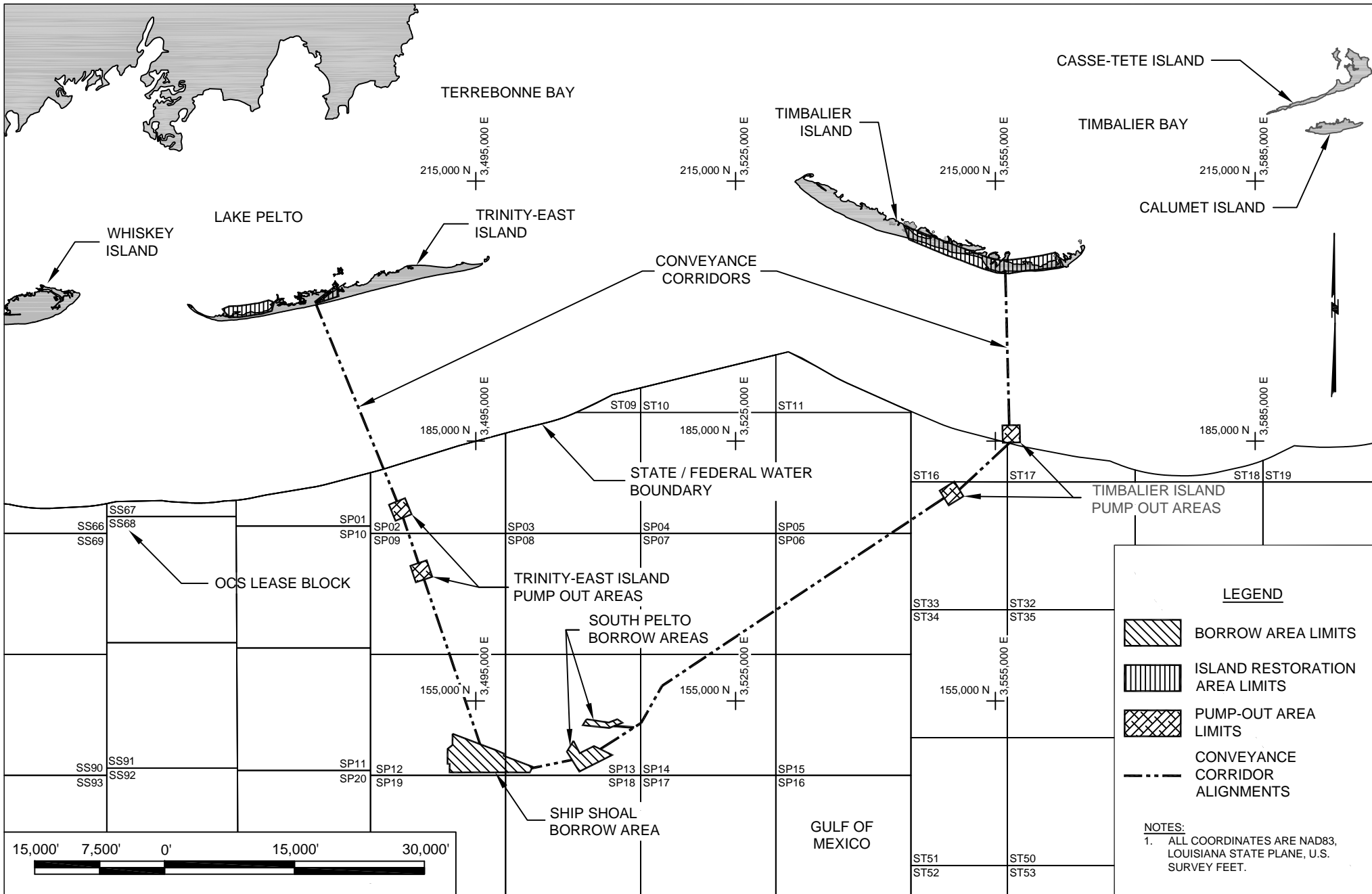


NOTES:





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



BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC.	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TITLE SHEET
			PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	150 TERRACE AVENUE BATON ROUGE, LA 70802	STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 1 OF 36



LEGEND

-  BORROW AREA LIMITS
-  ISLAND RESTORATION AREA LIMITS
-  PUMP-OUT AREA LIMITS
-  CONVEYANCE CORRIDOR ALIGNMENTS

NOTES:
 1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.

BY	DESCRIPTION	DATE

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT
 STATE PROJECT NUMBER: TE-143

PROJECT OVERVIEW MAP
 DATE: APRIL 2018

DRAWN BY: STEVE DARTEZ

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

APPROVED BY: TRAVIS BYLAND, P.E.

FEDERAL PROJECT NUMBER:

SHEET 2 OF 36

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. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITAL GLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
4. PROBABLE PIPELINES SHOWN ARE FROM LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT - 2010, BUREAU OF OCEAN ENERGY MANAGEMENT - 2007, AND OCEAN SURVEYS, INC. - 2011 & 2015.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT THE TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
6. 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.
7. 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.
8. ALL LOGS, STUMPS, AND OTHER DEBRIS UNEARTHED DURING DREDGING SHALL BE REMOVED TO AN APPROVED OFFSITE DISPOSAL AREA.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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, 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.
14. THE CONTRACTOR SHALL FOLLOW CONVEYANCE CORRIDORS, ACCESS CHANNELS, UPLAND ACCESS CORRIDORS, 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.
15. THE CONTRACTOR SHALL WORK COOPERATIVELY WITH THE OWNER TO ADDRESS THE NOTIFICATION AND COORDINATION REQUIREMENTS WITH THE LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES.
16. 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.
17. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

SURVEY NOTES:

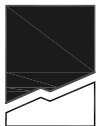
1. ALL COORDINATES ARE NORTH AMERICAN DATUM OF 1983 (NAD 83 - GEOID 12B), LOUISIANA STATE PLANE, SOUTHERN ZONE, U.S. SURVEY FEET. ALL RESTORATION AREA ELEVATIONS ARE BASED ON NATIONAL GEODETIC SURVEY AND LOUISIANA DEPARTMENT OF NATURAL RESOURCES MONUMENTS.

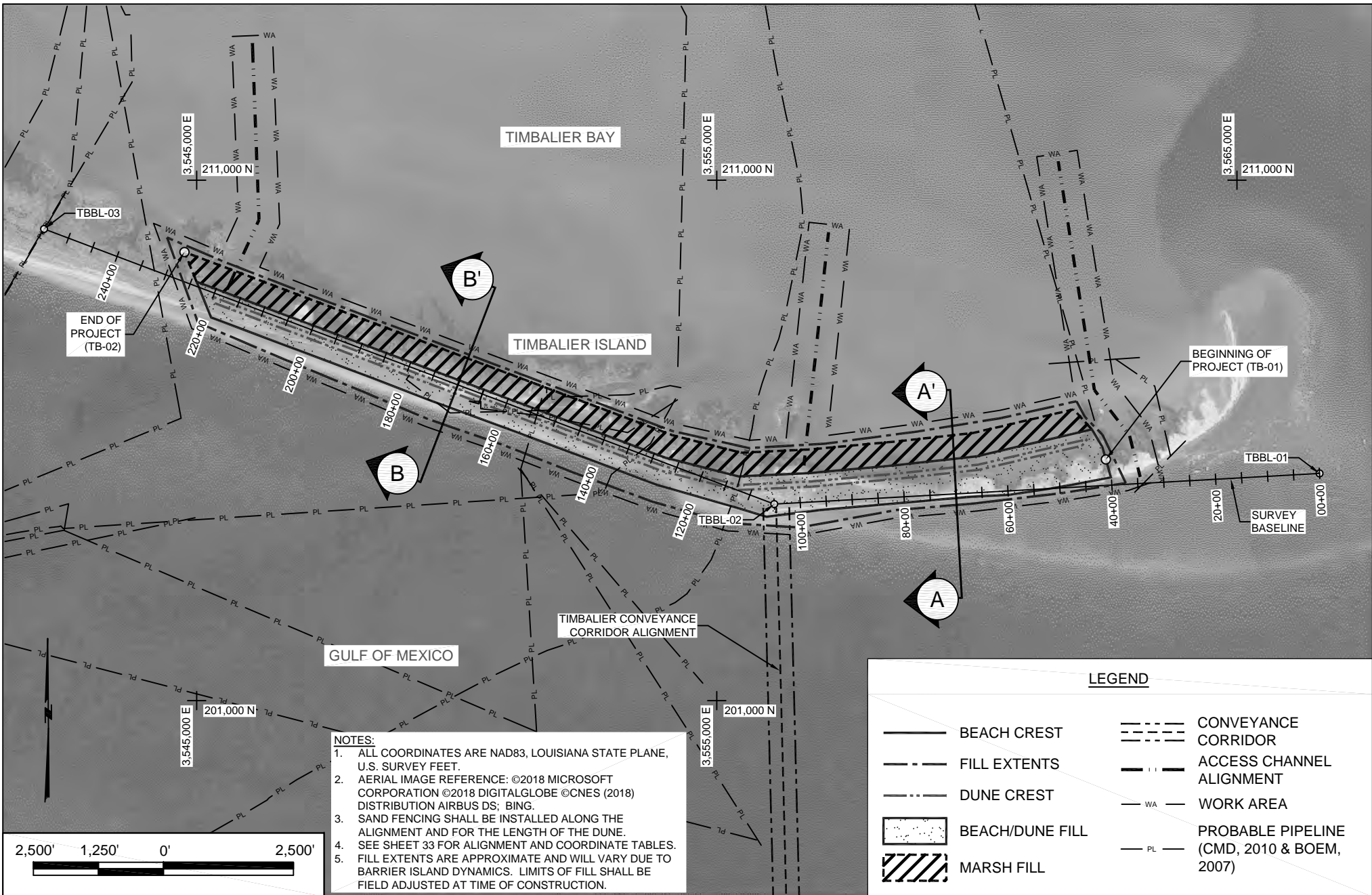
MONUMENTS	ELEVATION	NORTHING	EASTING
TE23-SM-01	7.30'	224,296.33	3,645,688.77
TE118-SM-01	2.16'	207,570.44	3,601,096.02
TE118-SM-02	3.06'	207,952.34	3,604,313.92
TE118-SM-03	1.56'	228,233.63	3,597,696.59

2. OTHER LOCAL AREA SECONDARY MONUMENTS REQUIRING UPDATES.

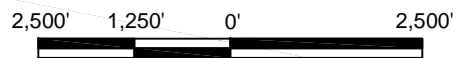
MONUMENTS	ELEVATION	NORTHING	EASTING	LAST UPDATE
TE40-SM-01	5.00'	206,444.36	3,554,437.49	SEPT. 2003
TRINITY	4.67'	200,955.97	3,476,498.85	APR. 2002

3. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - 2004.65), U.S. SURVEY FEET UNLESS OTHERWISE SPECIFIED.
4. SHIP SHOAL BORROW AREA PERFORMED BY OCEAN SURVEYS, INC., 2015-16. SOUTH PELTO BORROW AREA SURVEY PERFORMED BY OCEAN SURVEYS, INC. 2011. TRINITY-EAST PUMP-OUT AREAS, TRINITY-EAST CONVEYANCE CORRIDOR, TIMBALIER PUMP-OUT AREAS, TIMBALIER CONVEYANCE CORRIDOR ELEVATIONS REFERENCED TO MLLW OBTAINED FROM NOAA NAUTICAL CHART 11357 "TIMBALIER AND TERREBONNE BAYS", 42nd EDITION, MAY 2012, NOS SURVEYS 1990-2011.
5. ALL ISLAND SURVEYS PROVIDED BY CPRA AS PART OF THE BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2016.
6. 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	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	GENERAL NOTES
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 3 OF 36



- NOTES:**
1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 2. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
 3. SAND FENCING SHALL BE INSTALLED ALONG THE ALIGNMENT AND FOR THE LENGTH OF THE DUNE.
 4. SEE SHEET 33 FOR ALIGNMENT AND COORDINATE TABLES.
 5. FILL EXTENTS ARE APPROXIMATE AND WILL VARY DUE TO BARRIER ISLAND DYNAMICS. LIMITS OF FILL SHALL BE FIELD ADJUSTED AT TIME OF CONSTRUCTION.



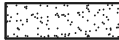

LEGEND	
	BEACH CREST
	FILL EXTENTS
	DUNE CREST
	BEACH/DUNE FILL
	MARSH FILL
	CONVEYANCE CORRIDOR
	ACCESS CHANNEL ALIGNMENT
	WORK AREA
	PROBABLE PIPELINE (CMD, 2010 & BOEM, 2007)

BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC.	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TIMBALIER ISLAND NOURISHMENT AREA PLAN VIEW
			PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	150 TERRACE AVENUE BATON ROUGE, LA 70802	STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: BRETT BORNE, P.E.			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 4 OF 36

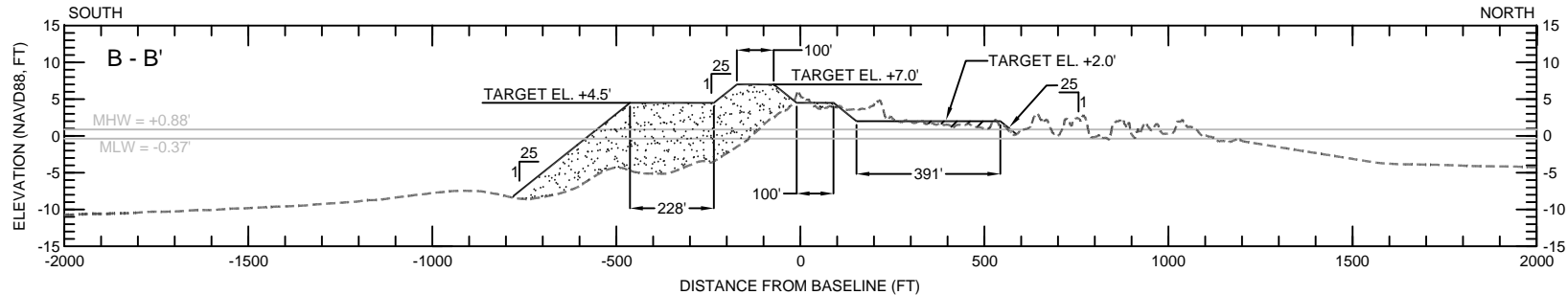
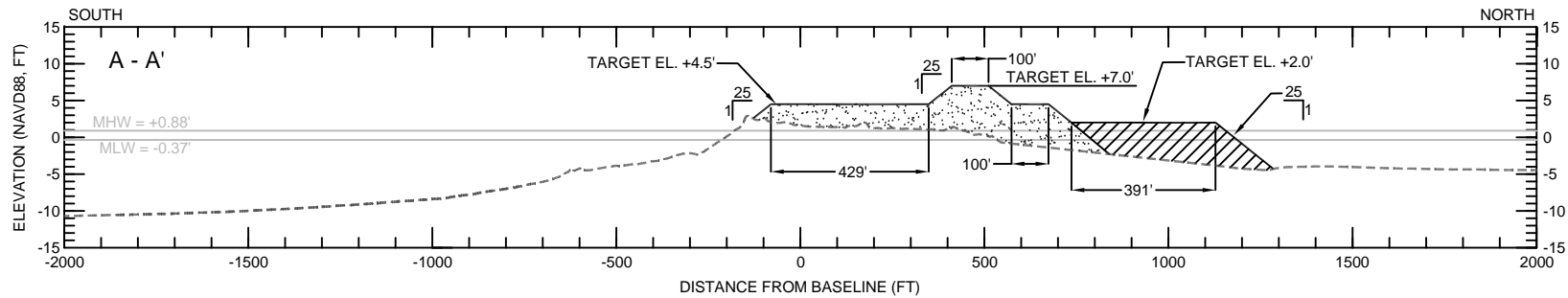
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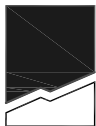
1. SECTIONS ARE VIEWED AS LOOKING WEST.
2. EXISTING GRADE SURVEY PROVIDED BY CPRA AS PART OF THE BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2016.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND MAY NOT MEASURE ALONG THE SURVEY BASELINE.
4. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.
5. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) DATA DERIVED FROM THE EAST TIMBALIER ISLAND RESTORATION PROJECT (TE-118).

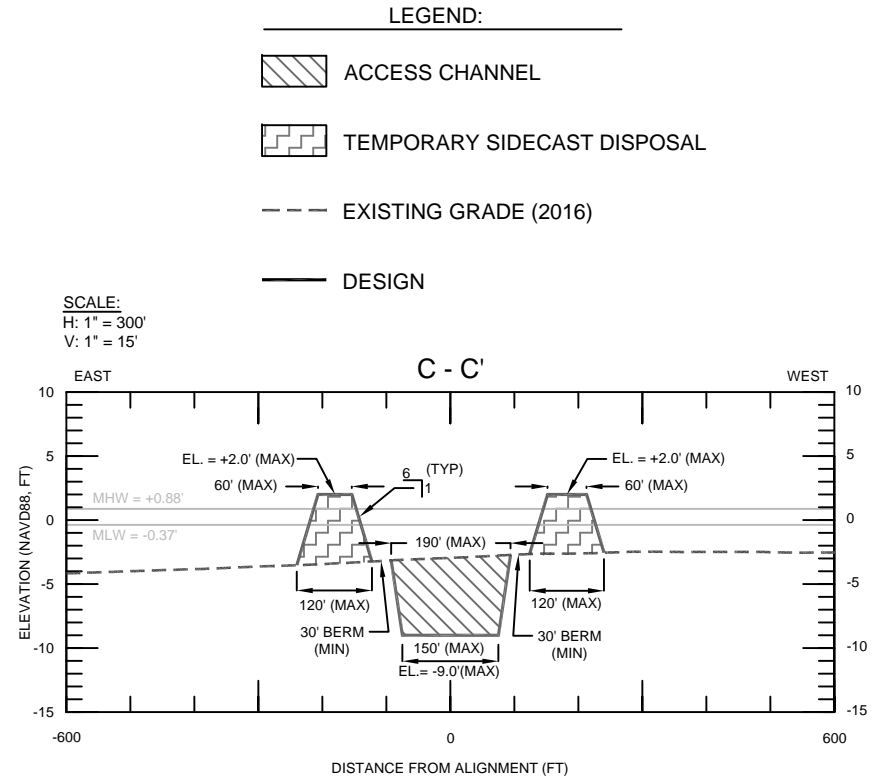
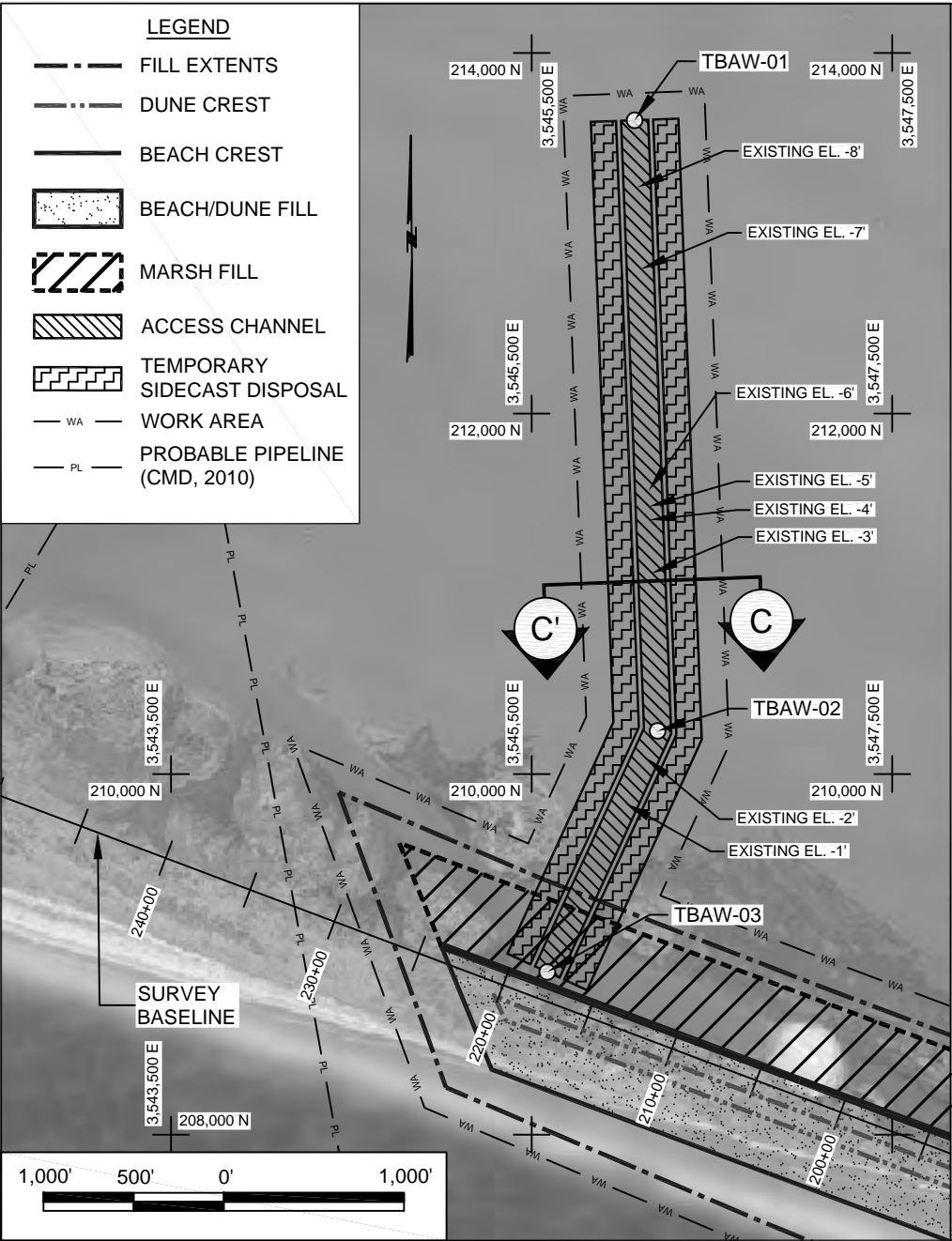
LEGEND

- EXISTING GRADE (2016)
- _____ CONSTRUCTION TOLERANCE
-  BEACH & DUNE FILL
-  MARSH FILL

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



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802		TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT		TIMBALIER ISLAND NOURISHMENT TYPICAL SECTIONS	
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DRAWN BY: BRETT BORNE, P.E.			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048		APPROVED BY: TRAVIS BYLAND, P.E.		FEDERAL PROJECT NUMBER:		SHEET 5 OF 32	



- 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 PROVIDED BY CPRA AS PART OF THE BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2016.
 - ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 - AERIAL IMAGE FROM ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
 - SEE SHEET 33 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

STATE PROJECT NUMBER: TE-143








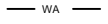
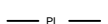
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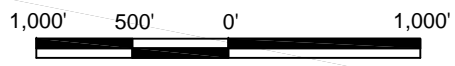
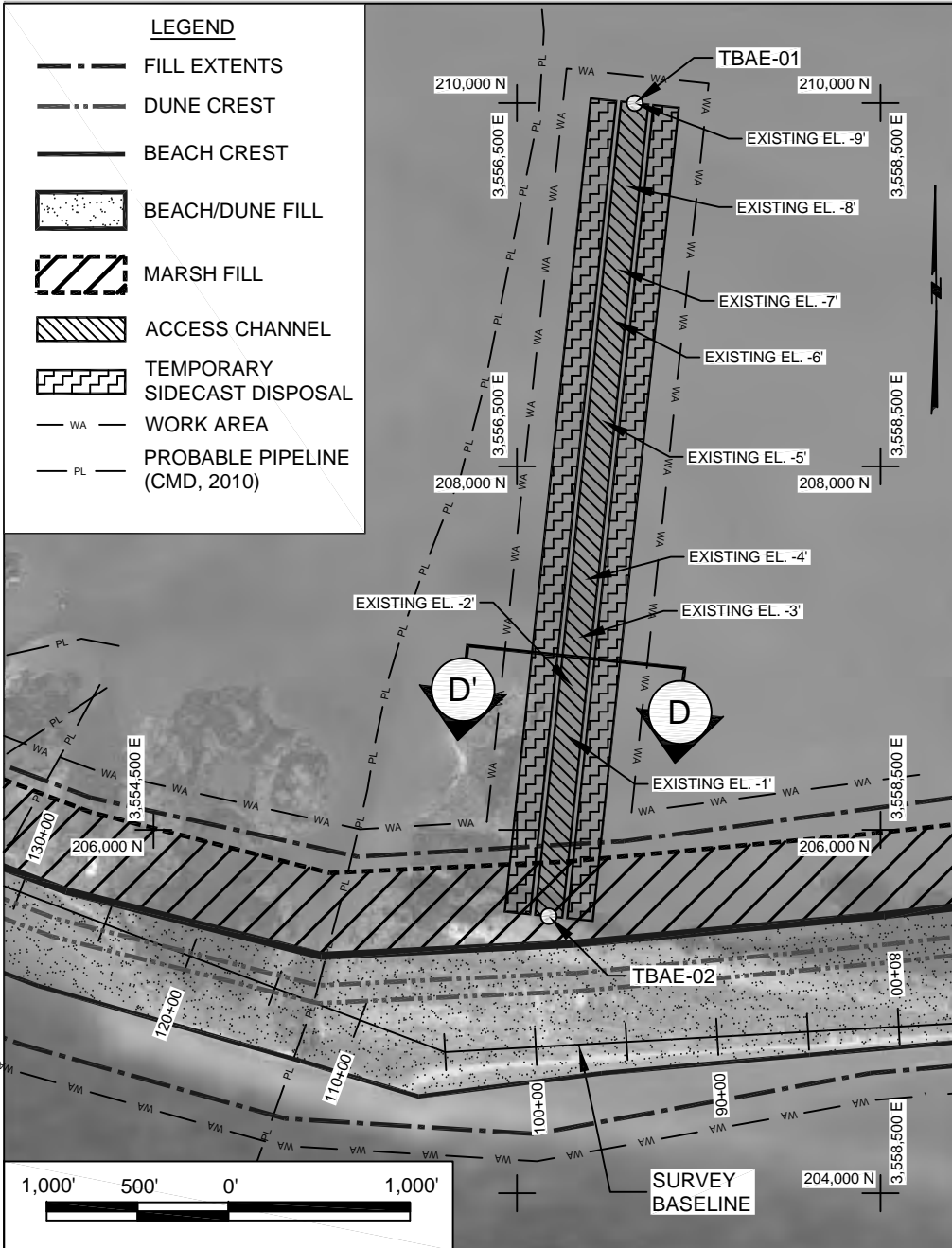
TIMBALIER ISLAND ACCESS CHANNEL - WEST

DATE: APRIL 2018

SHEET 6 OF 36





LEGEND

-  FILL EXTENTS
-  DUNE CREST
-  BEACH CREST
-  BEACH/DUNE FILL
-  MARSH FILL
-  ACCESS CHANNEL
-  TEMPORARY SIDECAST DISPOSAL
-  WORK AREA
-  PROBABLE PIPELINE (CMD, 2010)

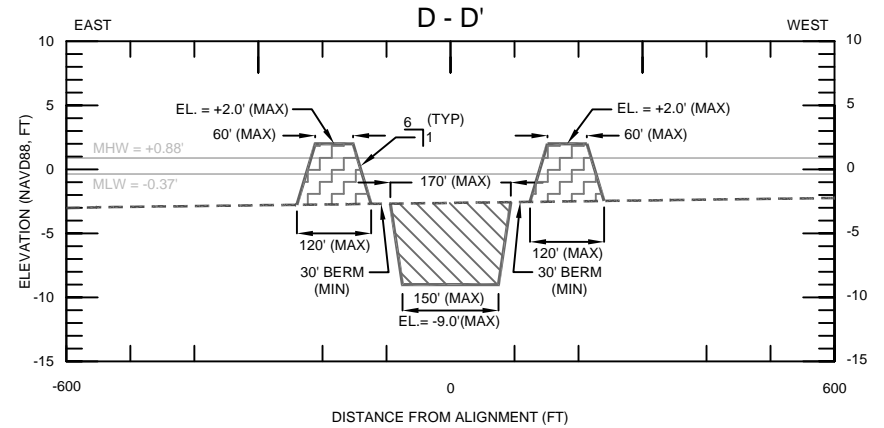


SURVEY BASELINE

LEGEND:

-  ACCESS CHANNEL
-  TEMPORARY SIDECAST DISPOSAL
-  EXISTING GRADE (2016)
-  DESIGN

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



NOTES:

1. CROSSING OF OIL & GAS PIPELINES SHALL BE IN ACCORDANCE WITH PIPELINE OWNER AND CONSTRUCTION CONTRACTOR CROSSING AGREEMENTS.
2. MATERIAL REMAINING IN THE TEMPORARY SIDECAST DISPOSAL AREAS SHALL BE REWORKED TO ±0.5 FEET OF THE PRE-CONSTRUCTION ELEVATIONS PRIOR TO DEMOBILIZATION.
3. ELEVATIONS IN THE ACCESS CHANNEL RESULTING FROM BACKFILLING OPERATIONS SHALL BE NO HIGHER THAN +0.5 FEET OF THE PRE-CONSTRUCTION ELEVATION.
4. EXISTING GRADE SURVEY PROVIDED BY CPRA AS PART OF THE BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2016.
5. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
6. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
7. SEE SHEET 33 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

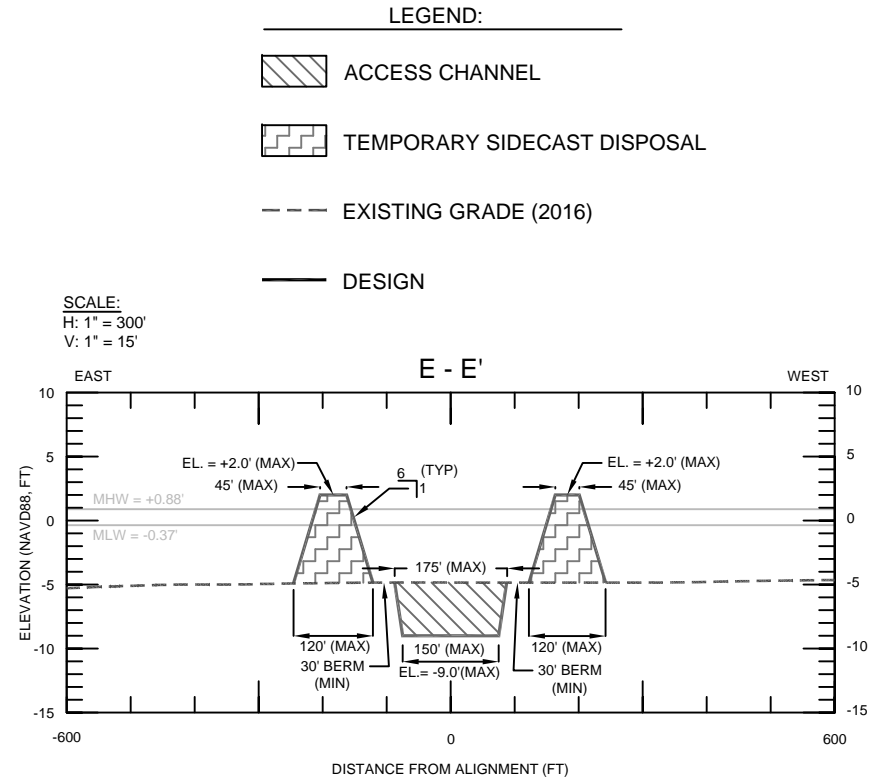
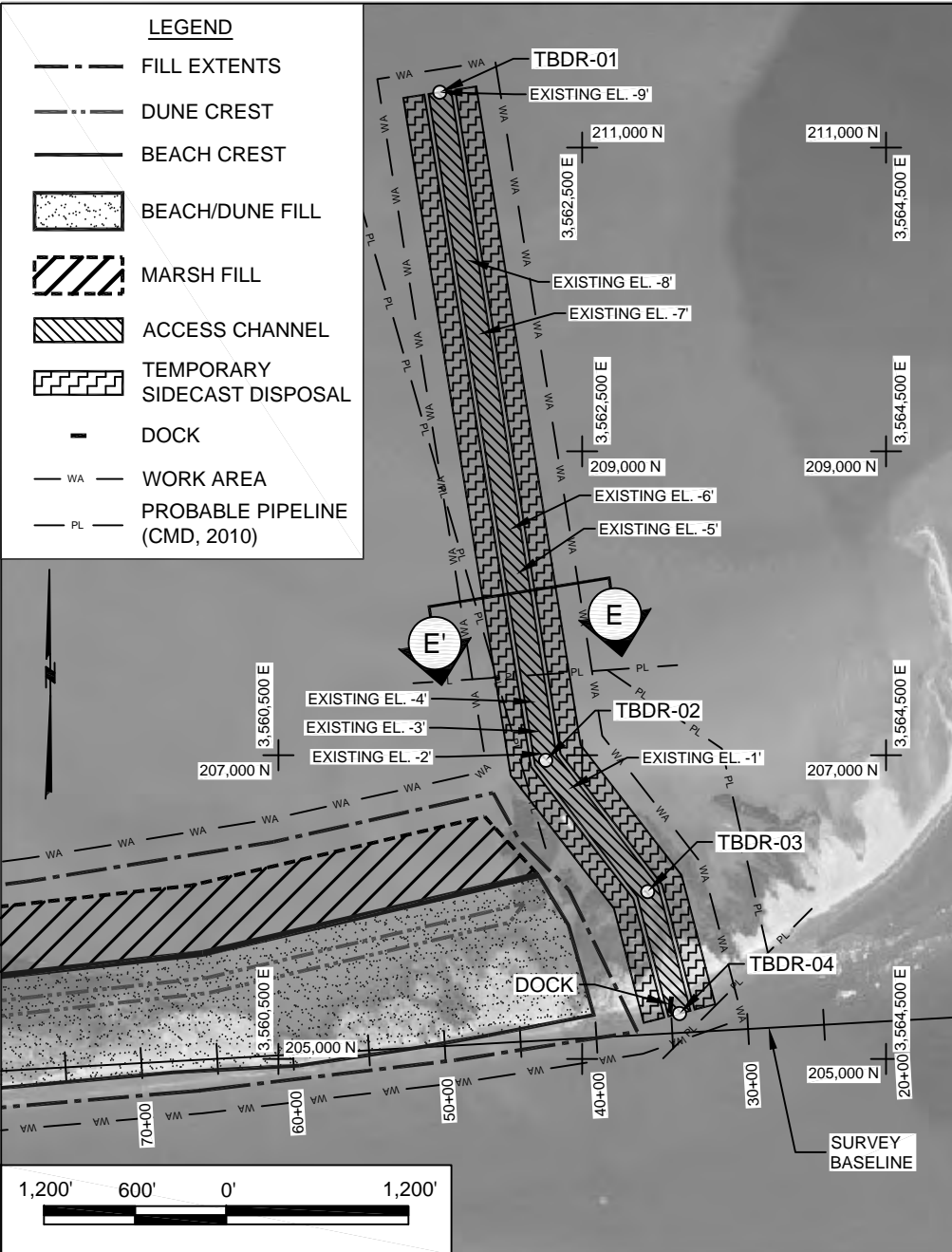
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TIMBALIER ISLAND ACCESS CHANNEL - EAST

DATE: APRIL 2018

SHEET 7 OF 36



- 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.
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 - AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
 - SEE SHEET 33 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

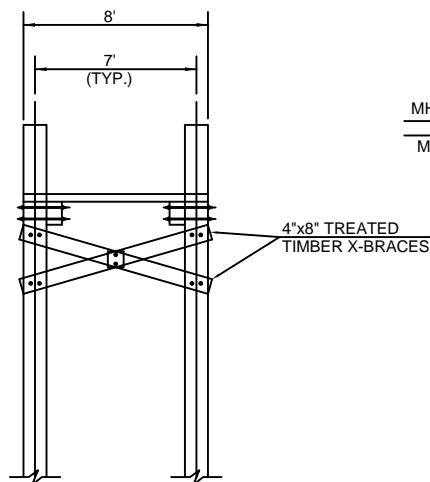
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

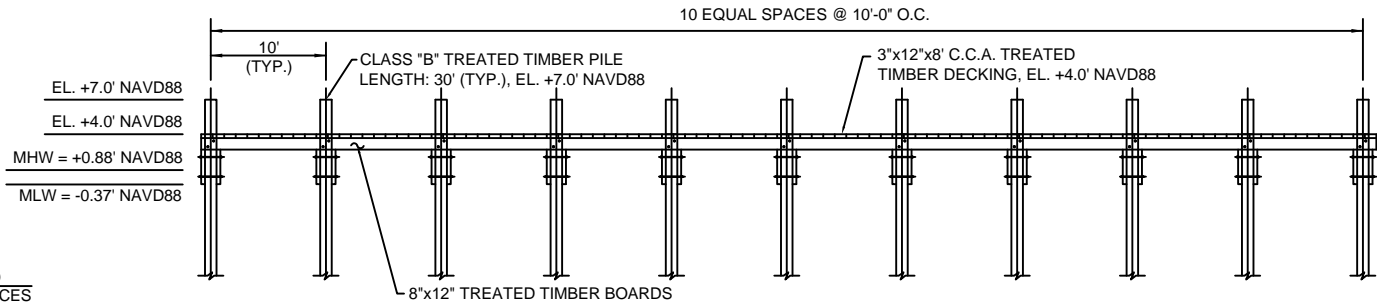
TIMBALIER ISLAND DOCK REMOVAL ACCESS CHANNEL

DATE: APRIL 2018

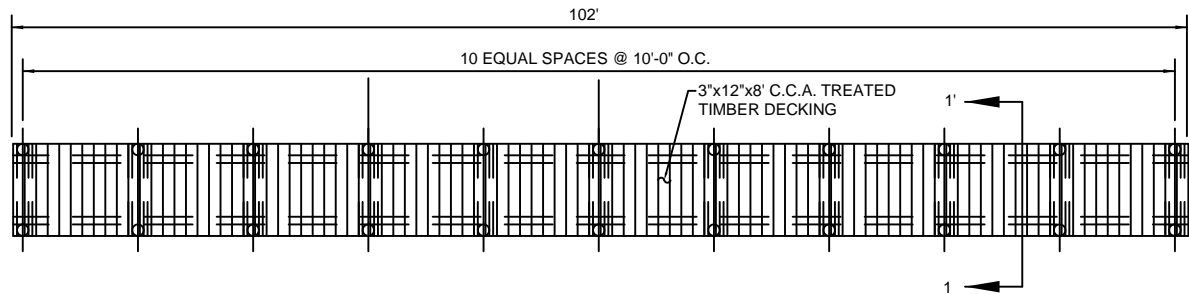
SHEET 8 OF 36



SECTION 1 - 1'
DOCK DETAIL (TIMBER)
NOT TO SCALE



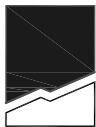
ELEVATION VIEW
TIMBALIER ISLAND DOCK FACILITY
NOT TO SCALE

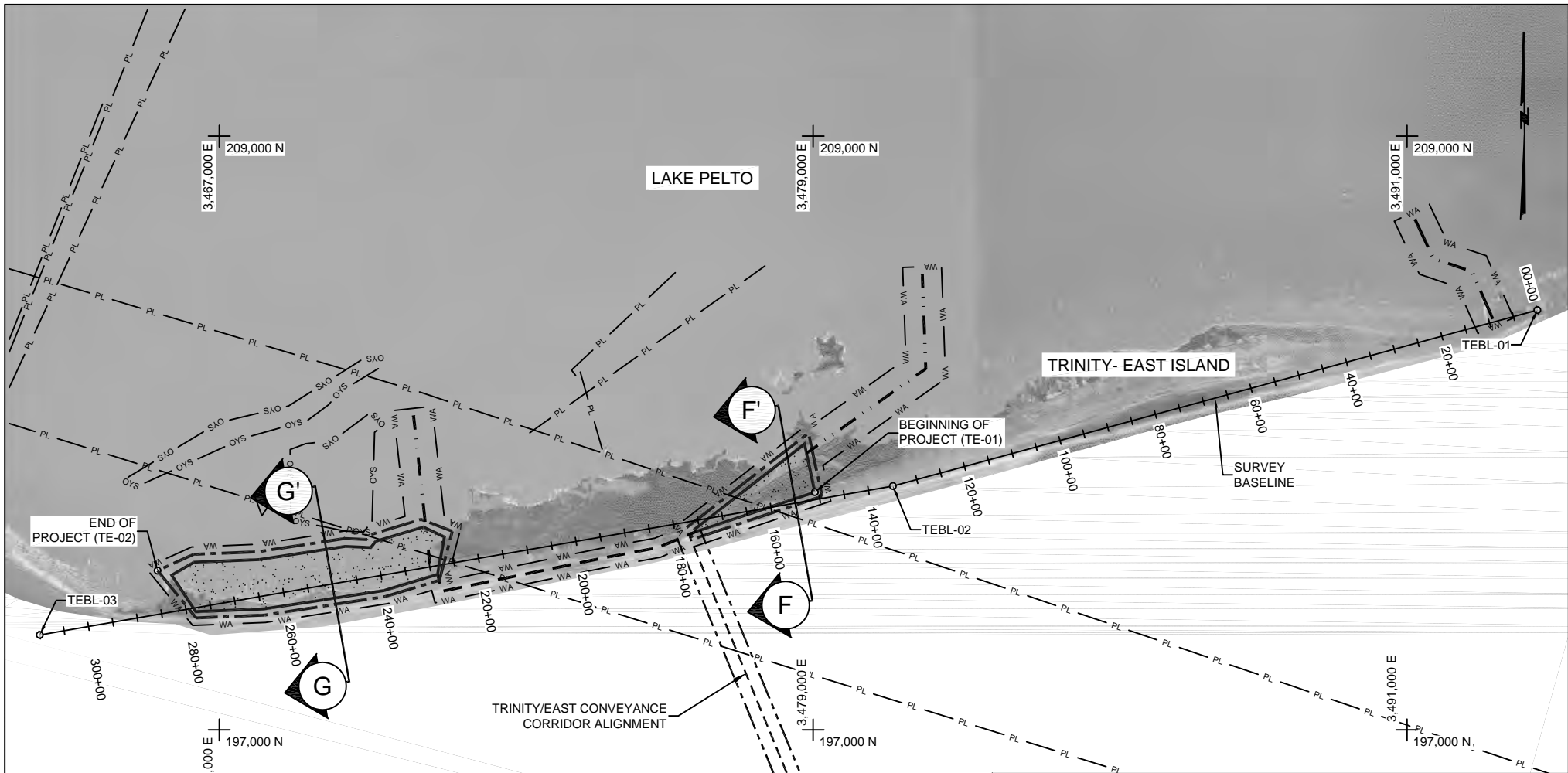


PLAN VIEW
NOT TO SCALE

NOTES:

1. DOCK INSTALLED AS PART OF TIMBALIER ISLAND DUNE/MARSH RESTORATION PROJECT (TE-40).
2. ALL MATERIALS REMAINING AS PART OF THE DOCK SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED DISPOSAL FACILITY IN ACCORDANCE WITH ALL FEDERAL AND STATE LAWS.
3. ALL PILING ASSOCIATED WITH THE DOCK STRUCTURE SHALL BE REMOVED TO A DEPTH OF AT LEAST TEN (10) FEET BELOW EXISTING GROUND.
4. DOCK FASTENING HARDWARE IS COMPRISED OF 7/8" GALVANIZED BOLTS WITH O.G. WASHERS AND NUTS.
5. ELEVATIONS OF CONSTRUCTION ARE ONLY RELEVANT TO THE TIME OF CONSTRUCTION AND MAY NOT REFLECT CURRENT CONDITIONS.
6. DOCK DRAWINGS OBTAINED FROM THE TIMBALIER ISLAND DUNE/MARSH RESTORATION PROJECT (TE-40) AS-BUILT DRAWINGS.

BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC.		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TIMBALIER ISLAND DOCK REMOVAL DETAIL
			 PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810		150 TERRACE AVENUE BATON ROUGE, LA 70802	STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048		APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 9 OF 32

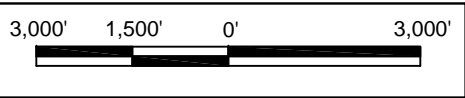


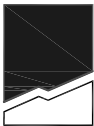
NOTES:

1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
2. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
3. SAND FENCING SHALL BE INSTALLED ALONG THE ALIGNMENT AND FOR THE LENGTH OF THE FILL. SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.
4. UPLAND ACCESS CORRIDOR SHALL BE ALLOWED ONLY OVER UNVEGETATED SEGMENTS OF ISLAND.
5. FILL EXTENTS ARE APPROXIMATE AND WILL VARY DUE TO BARRIER ISLAND DYNAMICS. LIMITS OF FILL SHALL BE FIELD ADJUSTED AT TIME OF CONSTRUCTION.

LEGEND

- ACCESS CHANNEL
- BEACH CREST
- FILL EXTENTS
- BEACH FILL
- CONVEYANCE CORRIDOR
- UPLAND ACCESS CORRIDOR
- WORK AREA
- OYSTER LEASE (LDWF, 2018)
- PROBABLE PIPELINE (CMD 2010, BOEM, 2007)



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TRINITY-EAST ISLAND NOURISHMENT AREA PLAN VIEW		
							STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: BRETT BORNE, P.E.	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.					FEDERAL PROJECT NUMBER:	SHEET 10 OF 36

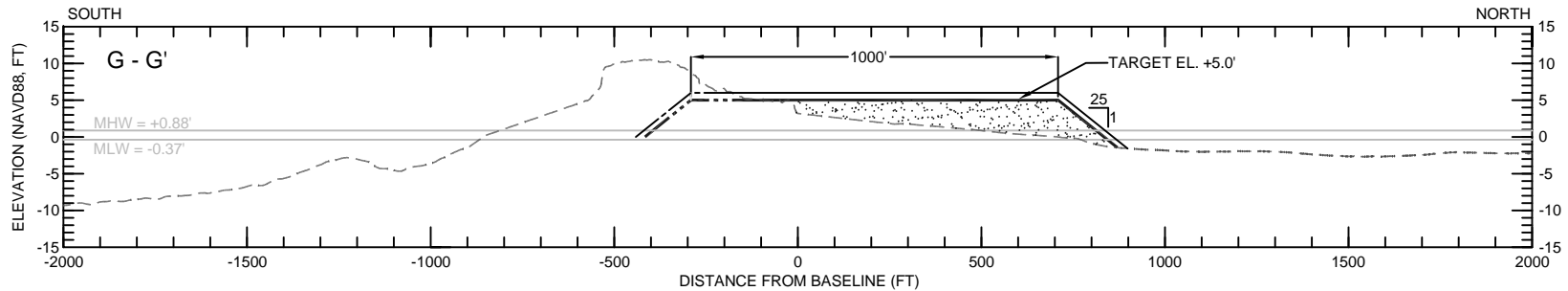
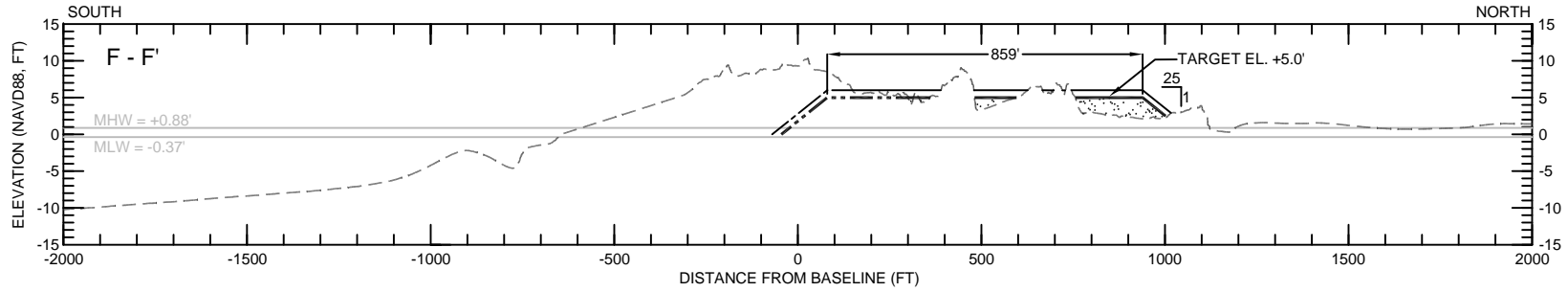
NOTES:

1. SECTIONS ARE VIEWED AS LOOKING WEST.
2. EXISTING GRADE SURVEY PROVIDED BY CPRA AS PART OF THE BARRIER ISLAND COMPREHENSIVE MONITORING PROGRAM, 2016.
3. DIMENSIONS ARE PROVIDED FOR DESIGN PURPOSES AND MAY NOT MEASURE ALONG THE SURVEY BASELINE.
4. A +1.0 FT ELEVATION CONSTRUCTION TOLERANCE SHALL BE ACCOMMODATED FOR CONSTRUCTION PURPOSES.
5. FULL POSSIBLE TEMPLATE EXTENTS SHOWN FOR CONSISTENCY WITH THE DESIGN PLAN VIEW AND TO ACCOUNT FOR POTENTIAL CHANGES IN THE EXISTING GRADE BETWEEN PERMITTING AND CONSTRUCTION. NO EXISTING TOPOGRAPHY WILL BE DEGRADED BELOW DESIGN TEMPLATE ELEVATIONS.
6. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) DATA DERIVED FROM THE EAST TIMBALIER ISLAND RESTORATION PROJECT (TE-118).

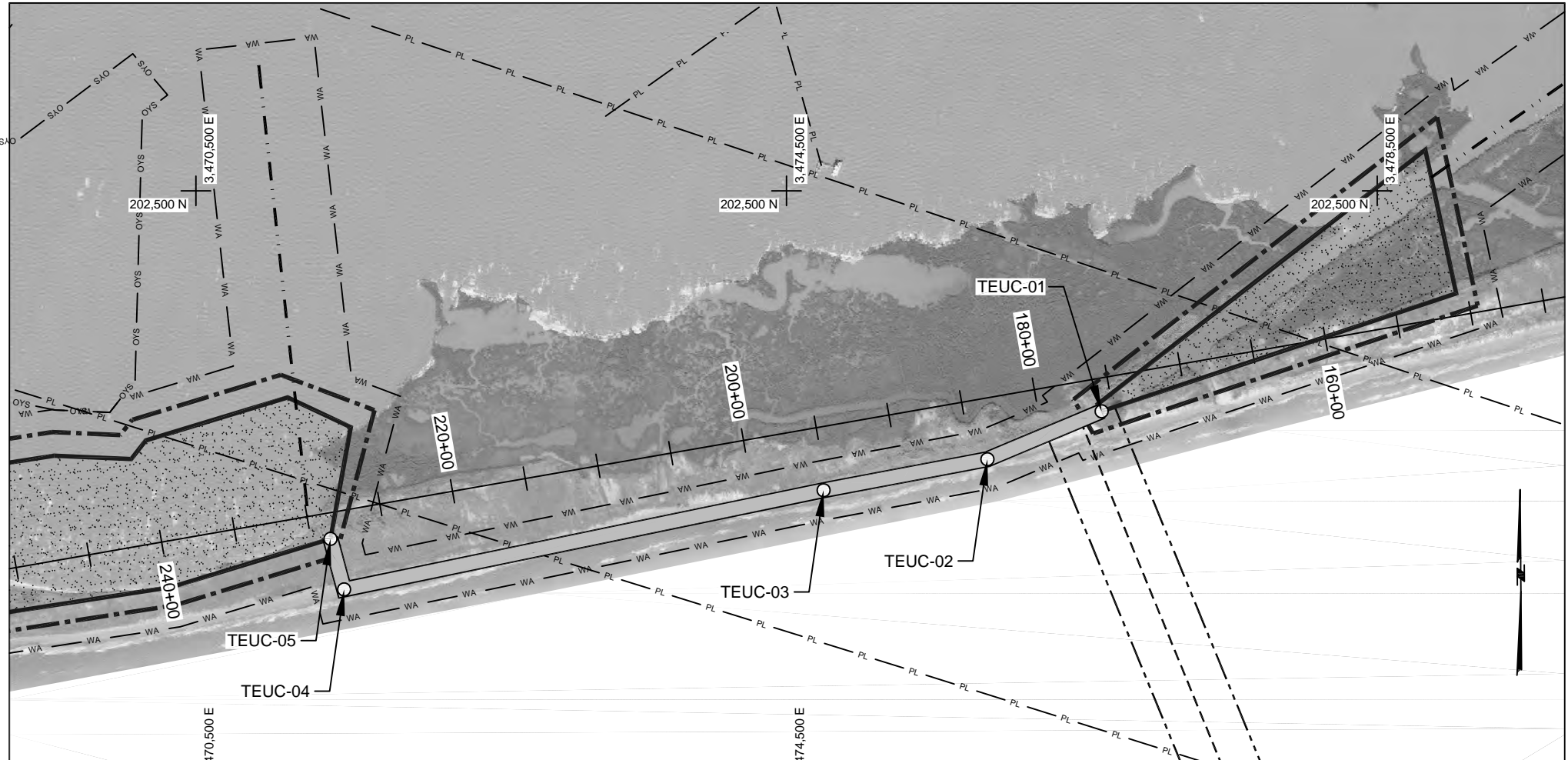
LEGEND

- EXISTING GRADE (2016)
- DESIGN
- POSSIBLE DESIGN EXTENTS
- BEACH FILL
- CONSTRUCTION TOLERANCE
- POSSIBLE TOLERANCE EXTENTS

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

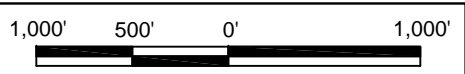


BY	DESCRIPTION	DATE	COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TRINITY-EAST ISLAND NOURISHMENT TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: BRETT BORNE, P.E.					DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.

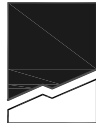


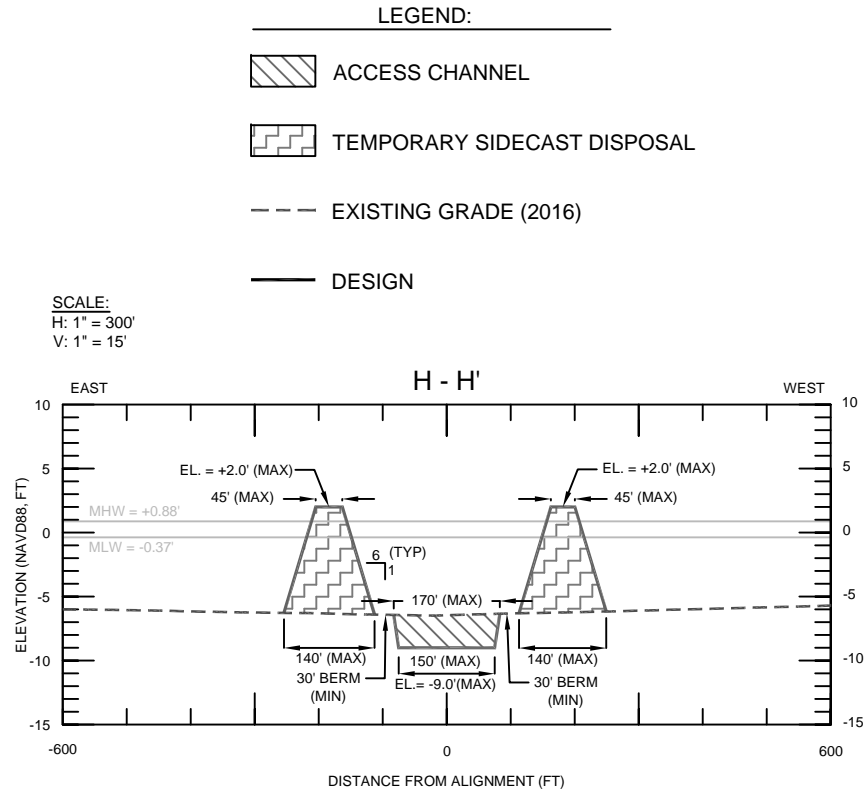
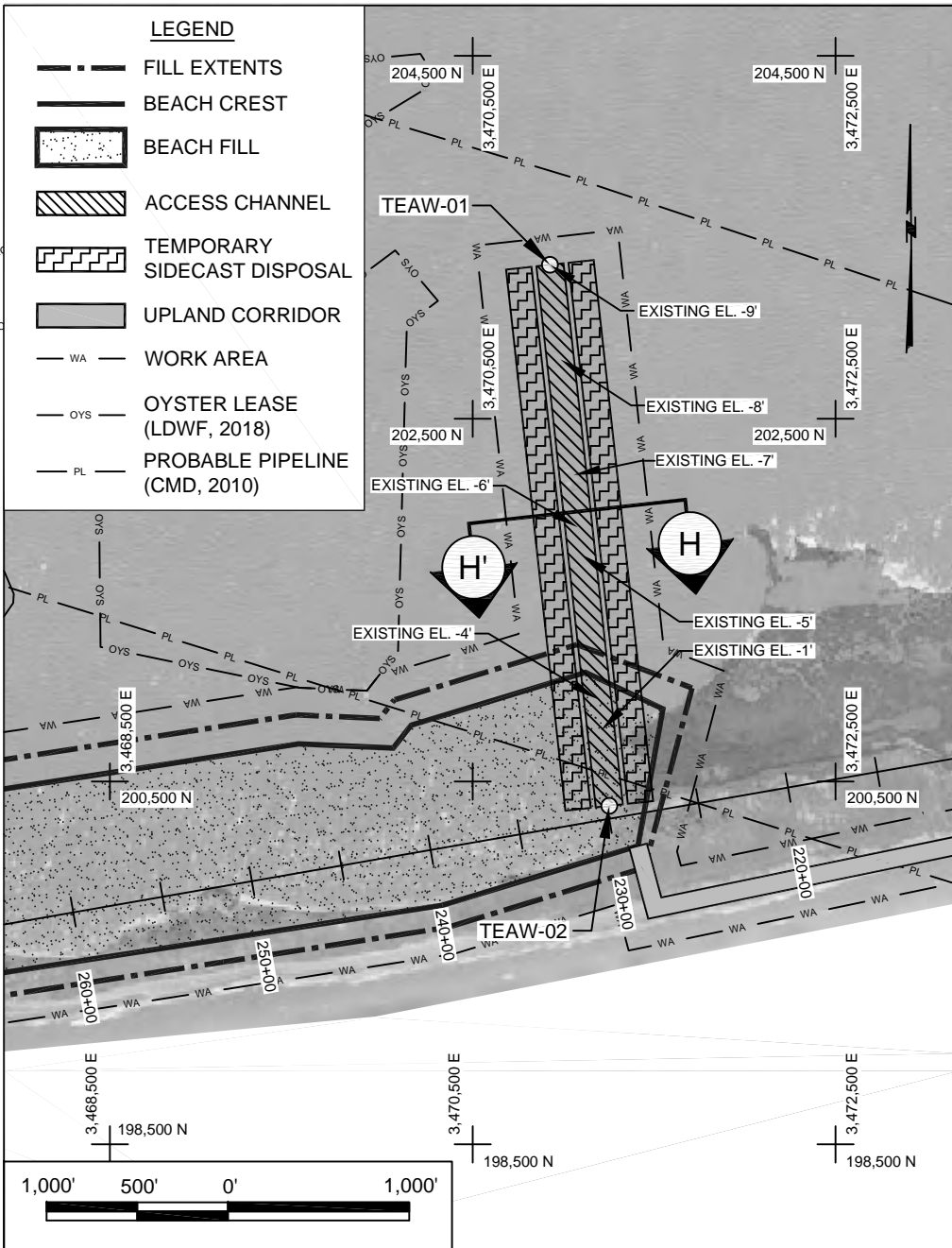
NOTES:

1. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
2. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
3. SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.
4. UPLAND ACCESS CORRIDOR SHALL BE ALLOWED ONLY OVER UNVEGETATED SEGMENTS OF ISLAND.



LEGEND	
	CONVEYANCE CORRIDORS
	BEACH CREST
	FILL EXTENTS
	BEACH/DUNE FILL
	ACCESS CHANNEL ALIGNMENT
	UPLAND ACCESS CORRIDOR
	WORK AREA
	OYSTER LEASE (LDWF, 2018)
	PROBABLE PIPELINE (CMD, 2010)

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TRINITY-EAST ISLAND UPLAND ACCESS CORRIDOR	
						STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.				FEDERAL PROJECT NUMBER:	SHEET 12 OF 36



- 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.
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 - ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
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 - 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.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

STATE PROJECT NUMBER: TE-143








FEDERAL PROJECT NUMBER:

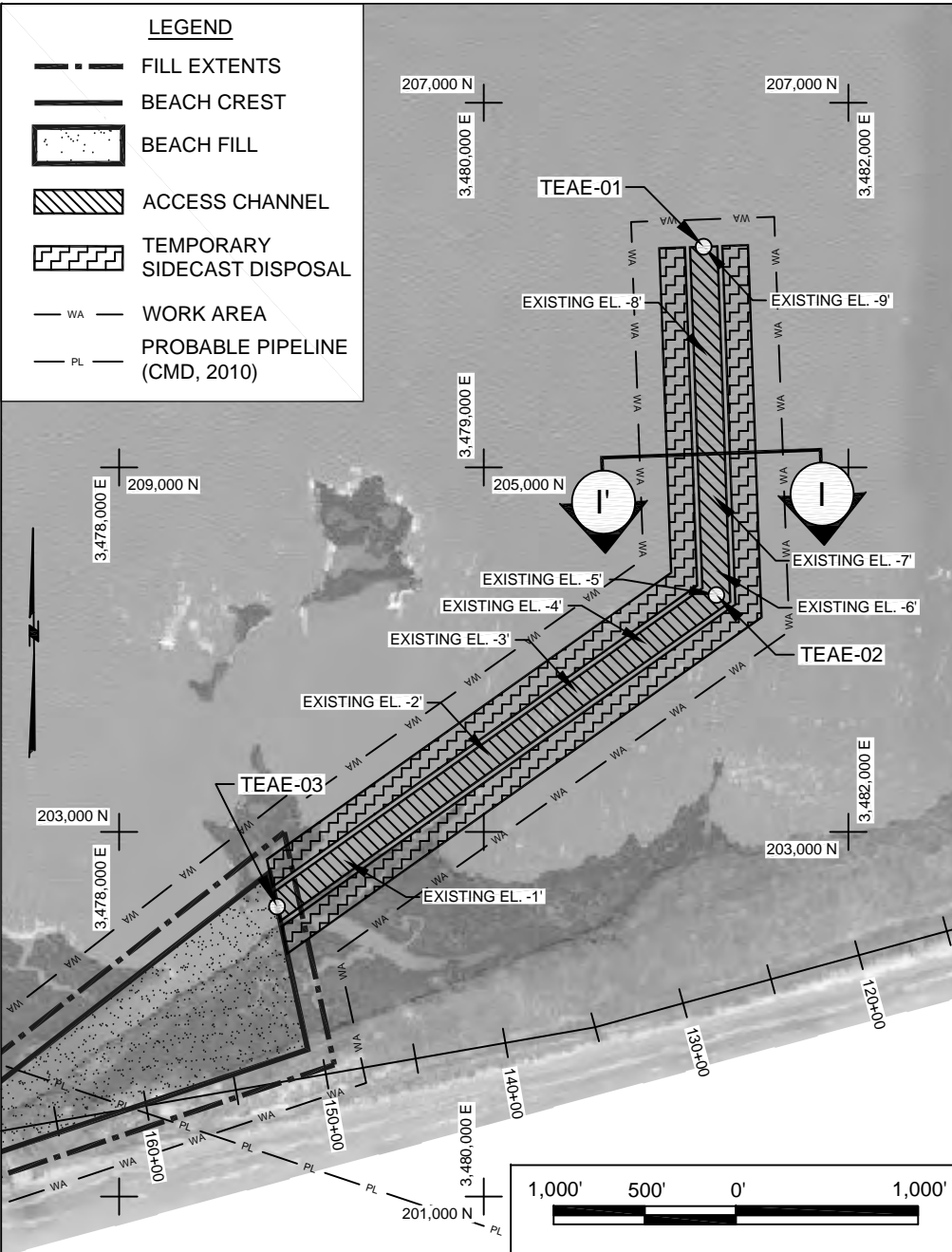
TRINITY-EAST ISLAND ACCESS CHANNEL - WEST

DATE: APRIL 2018





SHEET 13 OF 36

LEGEND

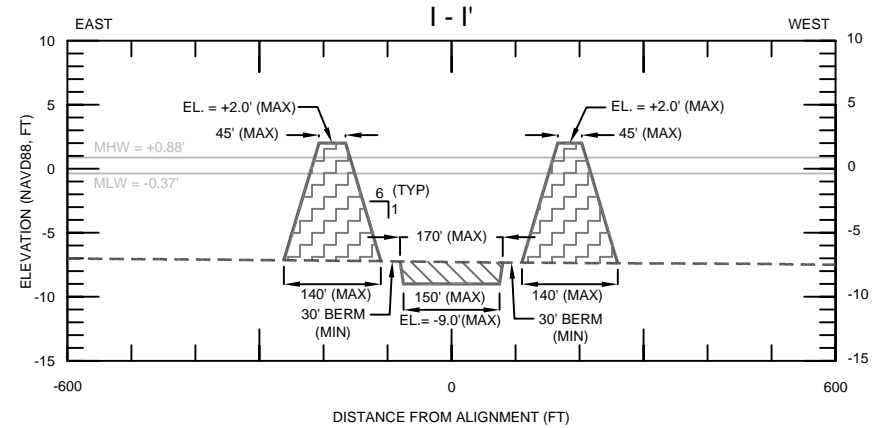
-  FILL EXTENTS
-  BEACH CREST
-  BEACH FILL
-  ACCESS CHANNEL
-  TEMPORARY SIDECAST DISPOSAL
-  WORK AREA
-  PROBABLE PIPELINE (CMD, 2010)



LEGEND:

-  ACCESS CHANNEL
-  TEMPORARY SIDECAST DISPOSAL
-  EXISTING GRADE (2016)
-  DESIGN

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



NOTES:

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BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

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PH: (225) 768-1982
8570 ANSELMO LANE
BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

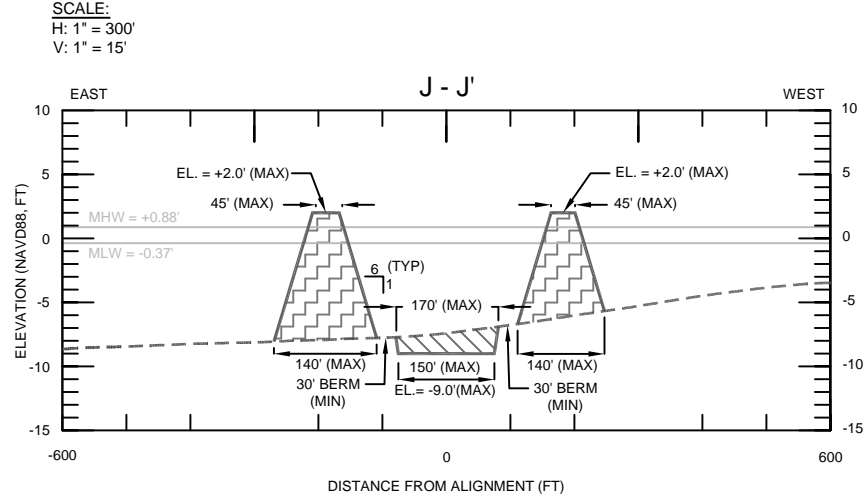
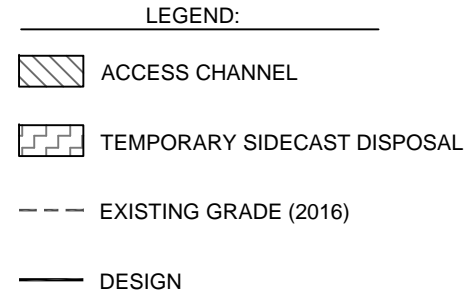
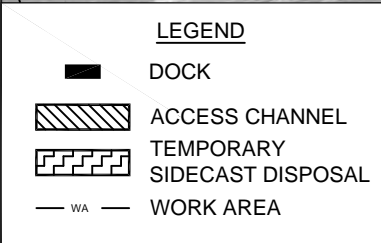
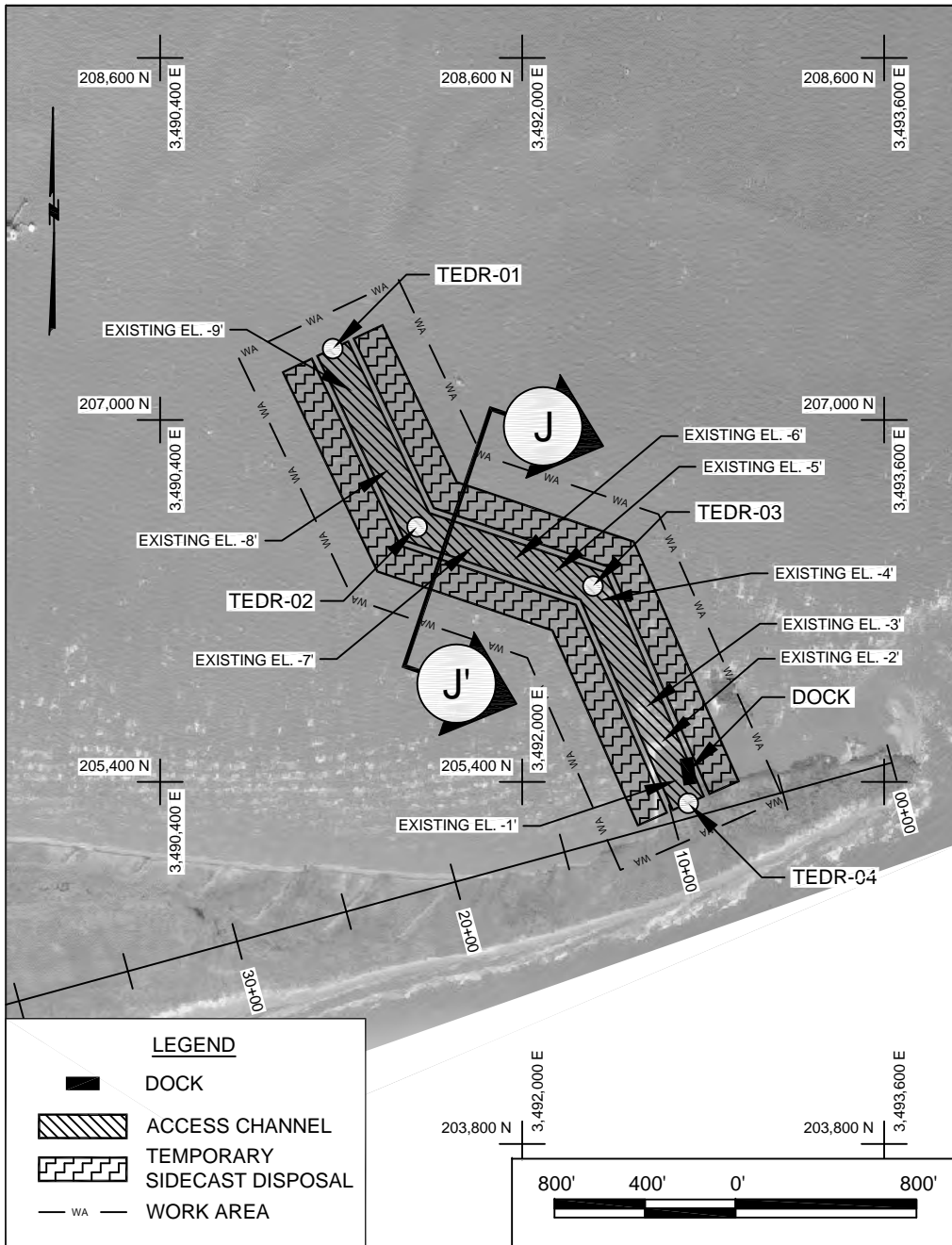
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TRINITY-EAST ISLAND ACCESS CHANNEL - EAST

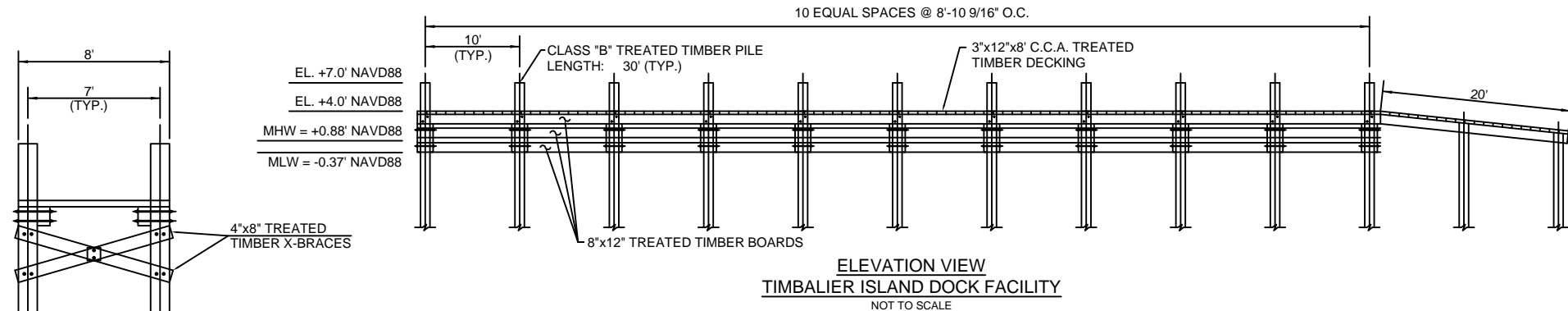
DATE: APRIL 2018

SHEET 14 OF 36

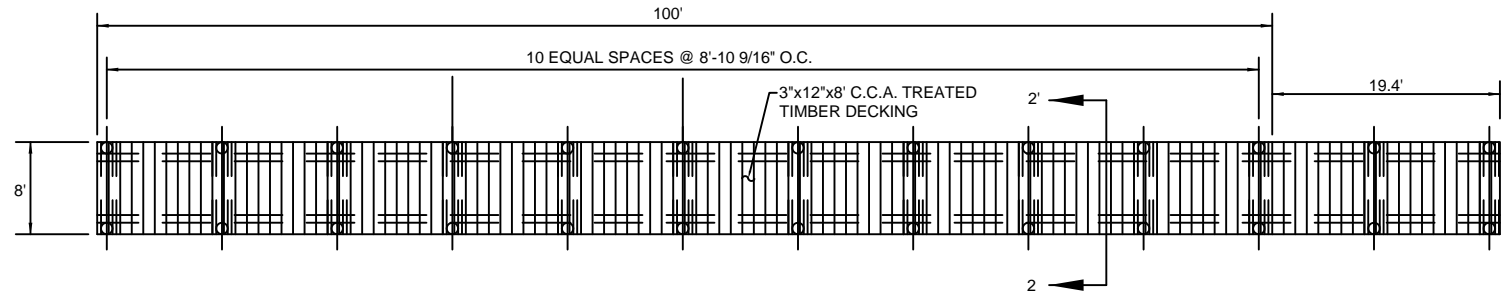


- NOTES:**
1. CROSSING OF OIL & GAS PIPELINES SHALL BE IN ACCORDANCE WITH PIPELINE OWNER AND CONSTRUCTION CONTRACTOR CROSSING AGREEMENTS.
 2. MATERIAL REMAINING IN THE TEMPORARY SIDECAST DISPOSAL AREAS SHALL BE REWORKED TO ±0.5 FEET OF THE PRE-CONSTRUCTION ELEVATIONS PRIOR TO DEMOBILIZATION.
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 5. ALL COORDINATES ARE NAD83, LOUISIANA STATE PLANE, U.S. SURVEY FEET.
 6. AERIAL IMAGE REFERENCE: ©2018 MICROSOFT CORPORATION ©2018 DIGITALGLOBE ©CNES (2018) DISTRIBUTION AIRBUS DS; BING.
 7. SEE SHEET 34 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TRINITY-EAST ISLAND DOCK REMOVAL ACCESS CHANNEL
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER:	SHEET 15 OF 36

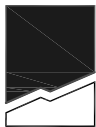


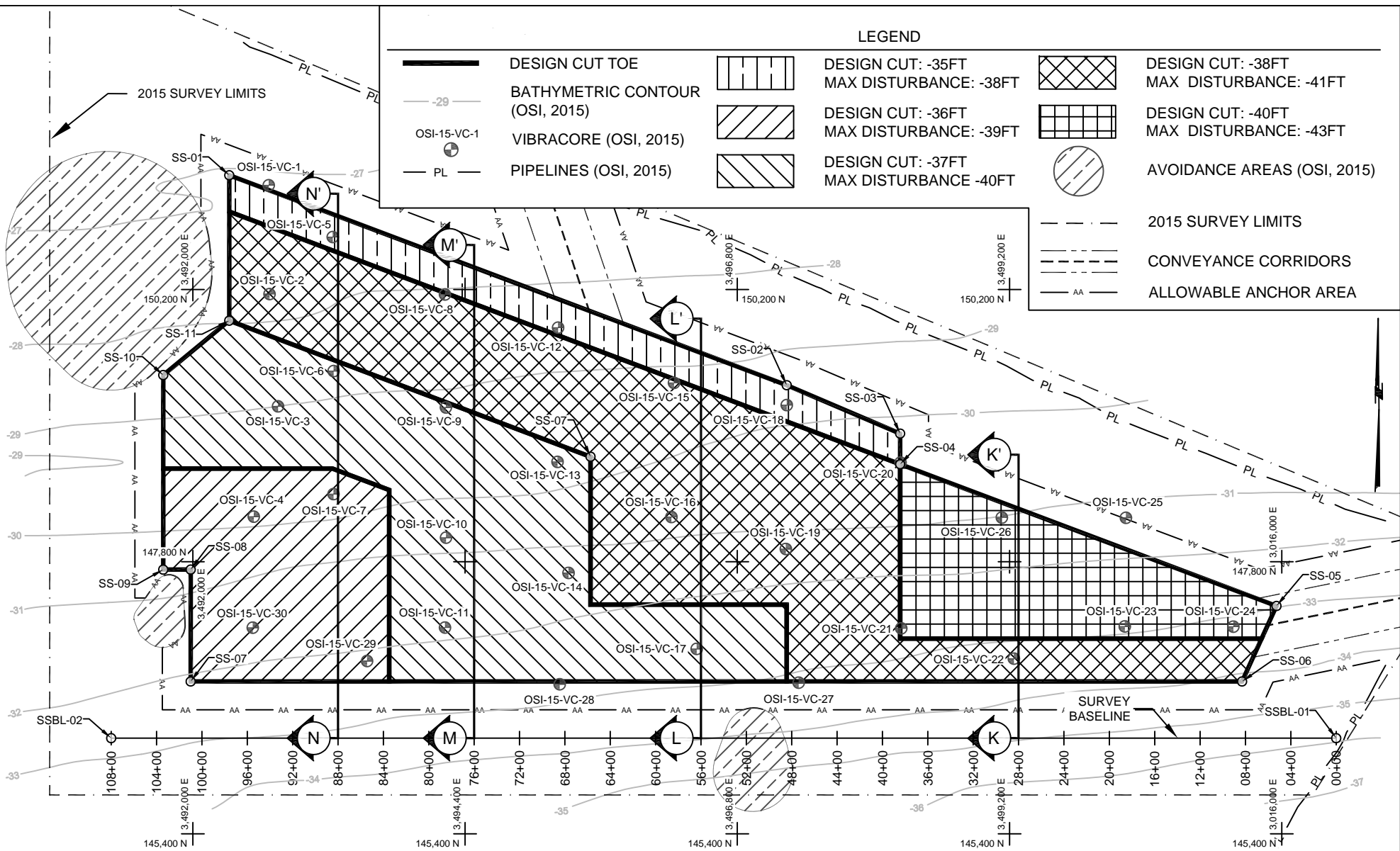
SECTION 2-2'
DOCK DETAIL (TIMBER)
NOT TO SCALE



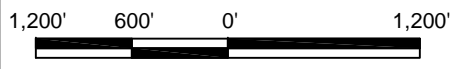
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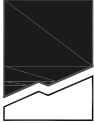
1. DOCK INSTALLED AS PART OF THE ISLE DERNIERES RESTORATION PROJECT - EAST ISLAND - PHASE 0.
2. ALL MATERIALS REMAINING AS PART OF THE DOCK SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED DISPOSAL FACILITY IN ACCORDANCE WITH ALL FEDERAL AND STATE LAWS.
3. ALL PILING ASSOCIATED WITH THE DOCK STRUCTURE SHALL BE REMOVED TO A DEPTH OF AT LEAST TEN (10) FEET BELOW EXISTING GROUND.
4. DOCK FASTENING HARDWARE IS COMPRISED OF 7/8" GALVANIZED BOLTS WITH O.G. WASHERS AND NUTS.
5. ELEVATIONS OF CONSTRUCTION ARE ONLY RELEVANT TO THE TIME OF CONSTRUCTION AND MAY NOT REFLECT CURRENT CONDITIONS.
6. DOCK DRAWINGS OBTAINED FROM THE ISLE DERNIERES RESTORATION PROJECT - EAST ISLAND PHASE 0 (TE-20) AS-BUILT DRAWINGS.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	TRINITY-EAST ISLAND DOCK REMOVAL DETAIL
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 16 OF 36



- 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.
 5. CURRENTLY PERMITTED UNDER C.U.P. NO. P20170043 AND C.O.E. NO. MVN 2015-0895-CQ.



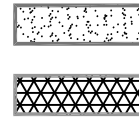
BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	SHIP SHOAL BORROW AREA PLAN VIEW
						STATE PROJECT NUMBER: TE-143
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 17 OF 36

NOTES:

1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, INC., 2015.
2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.
4. MEAN HIGH WATER = +0.88FT NAVD88, MEAN LOW WATER = -0.37 FT NAVD88.

LEGEND:

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

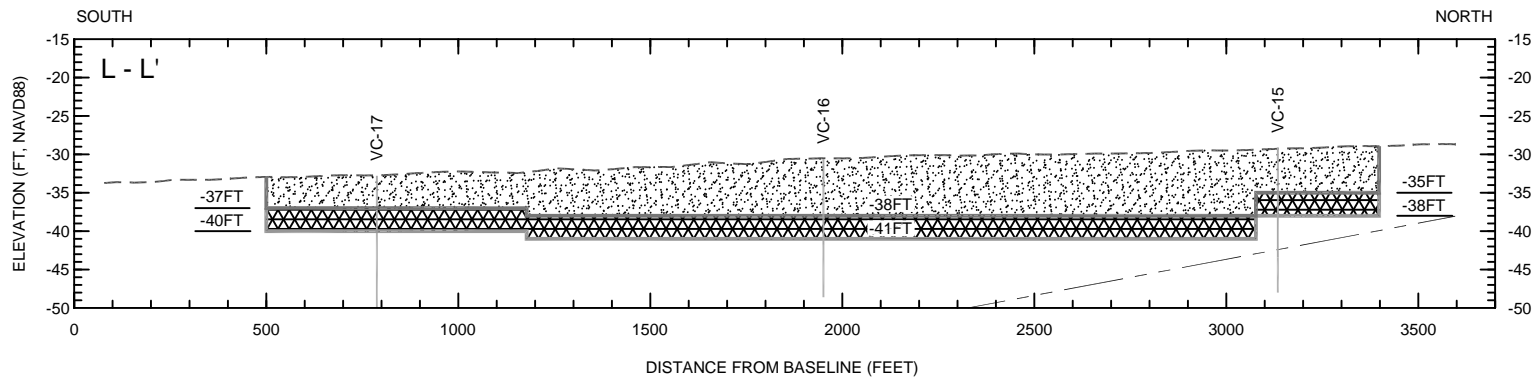
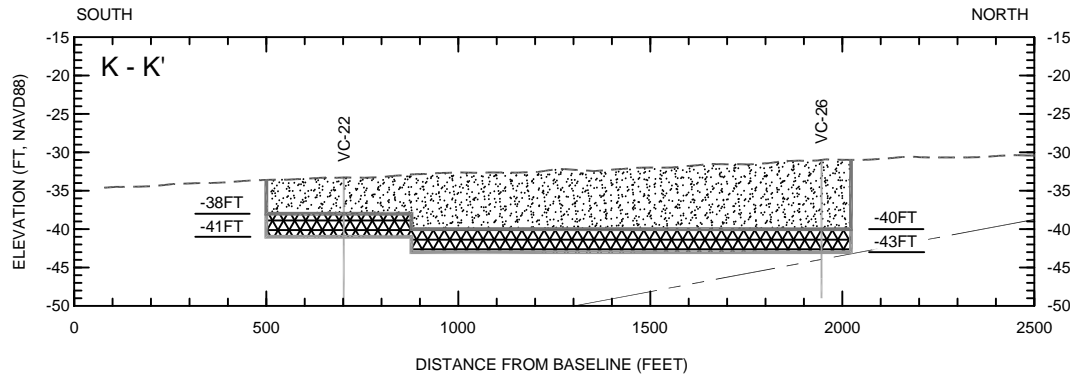


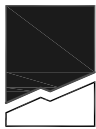
- DESIGN DREDGE CUT
- DESIGN LIMIT OF DISTURBANCE

VC-24

VIBRACORE (2015)

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



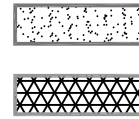
BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	SHIP SHOAL BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER:	SHEET 18 OF 36

NOTES:

1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, INC., 2015.
2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.
4. MEAN HIGH WATER = +0.88FT NAVD88, MEAN LOW WATER = -0.37 FT NAVD88.

LEGEND:

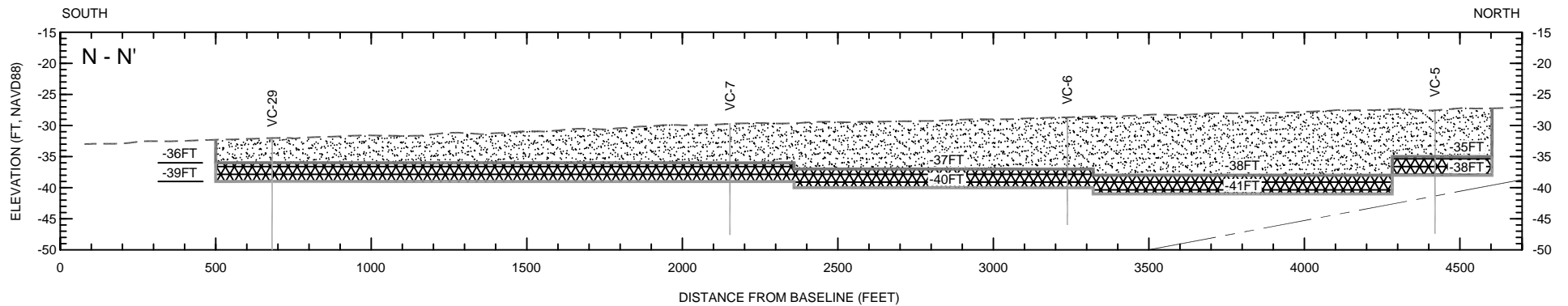
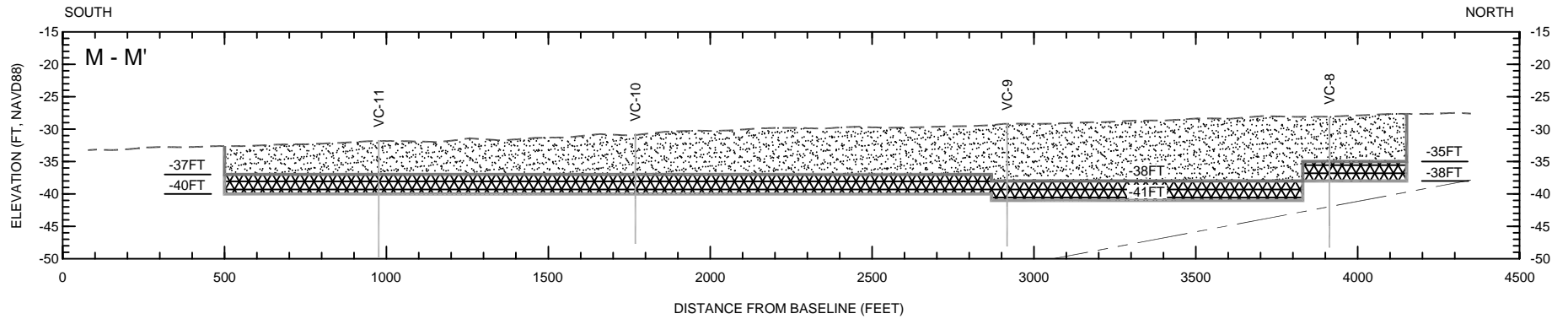
- EXISTING GRADE (2015)
- - - 100H:1V PIPELINE SLOPE OFFSET

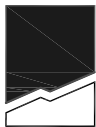


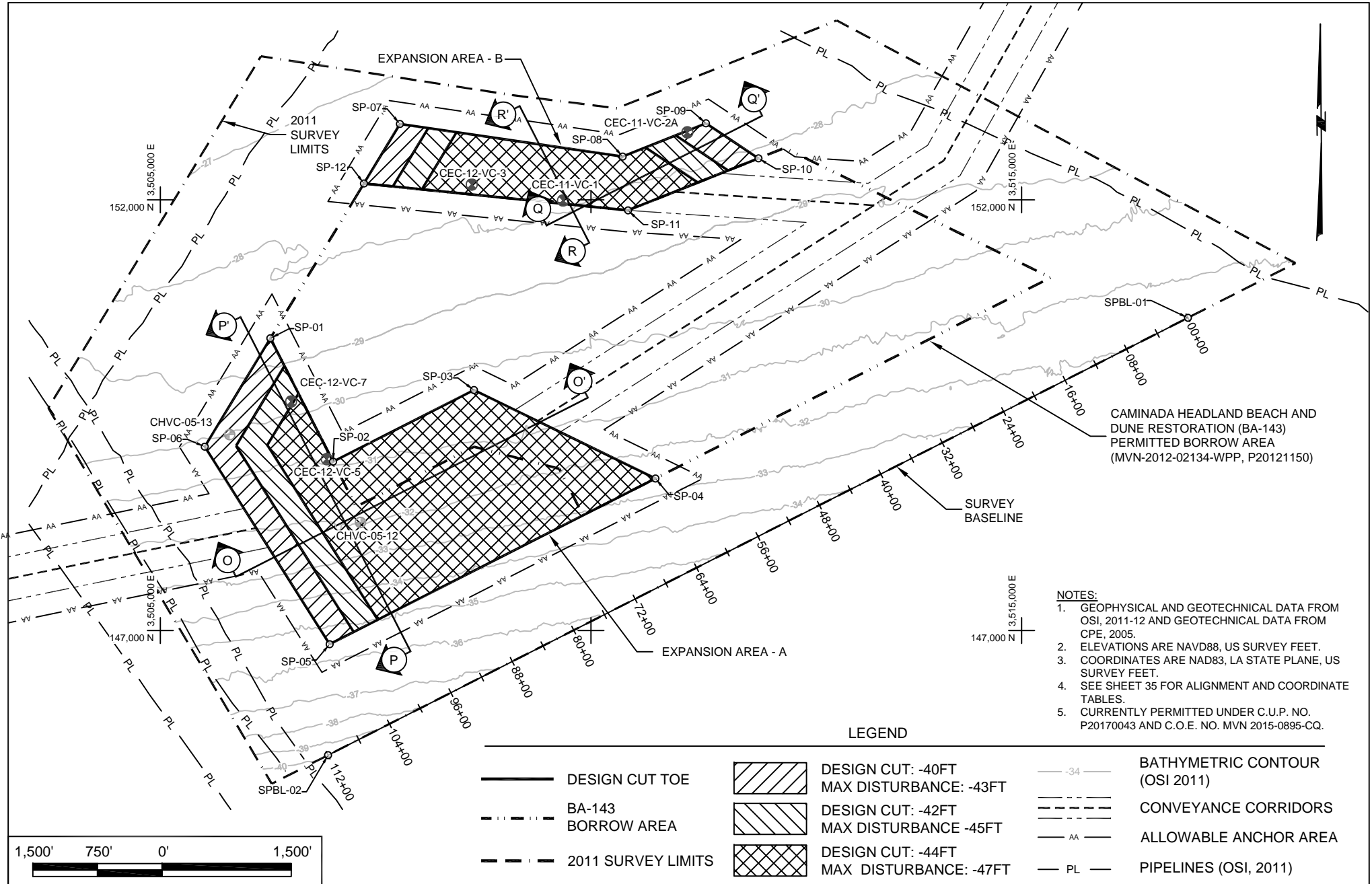
- DESIGN DREDGE CUT
- DESIGN LIMIT OF DISTURBANCE

VC-24
VIBRACORE (2015)

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



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	SHIP SHOAL BORROW AREA TYPICAL SECTIONS
					150 TERRACE AVENUE BATON ROUGE, LA 70802	STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048		APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 19 OF 36



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

- 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.
 5. CURRENTLY PERMITTED UNDER C.U.P. NO. P20170043 AND C.O.E. NO. MVN 2015-0895-CQ.

LEGEND

DESIGN CUT TOE	DESIGN CUT: -40FT MAX DISTURBANCE: -43FT	BATHYMETRIC CONTOUR (OSI 2011)
BA-143 BORROW AREA	DESIGN CUT: -42FT MAX DISTURBANCE -45FT	CONVEYANCE CORRIDORS
2011 SURVEY LIMITS	DESIGN CUT: -44FT MAX DISTURBANCE: -47FT	ALLOWABLE ANCHOR AREA
		PIPELINES (OSI, 2011)

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

SOUTH PELTO BORROW AREA PLAN VIEW

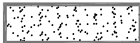
DATE: APRIL 2018

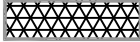
SHEET 20 OF 36

LEGEND:

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

--- EXISTING GRADE (2011)

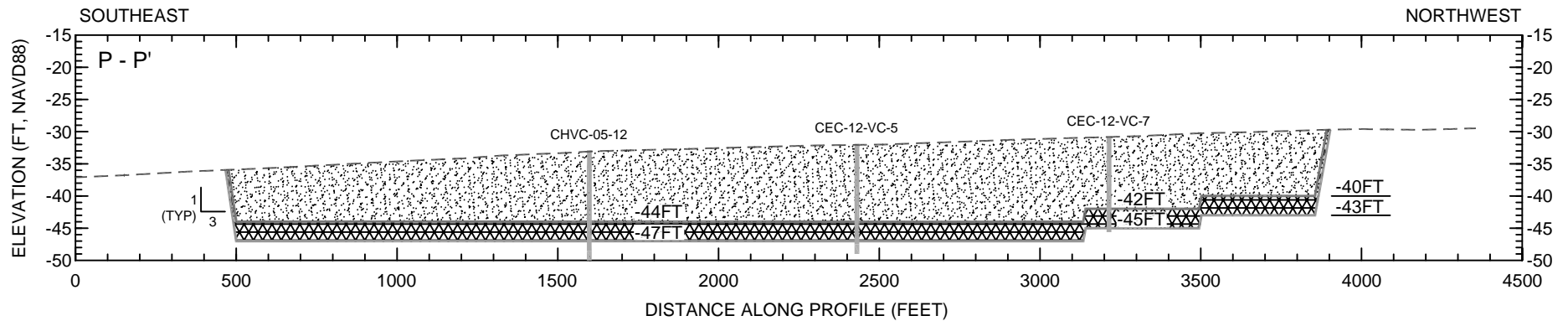
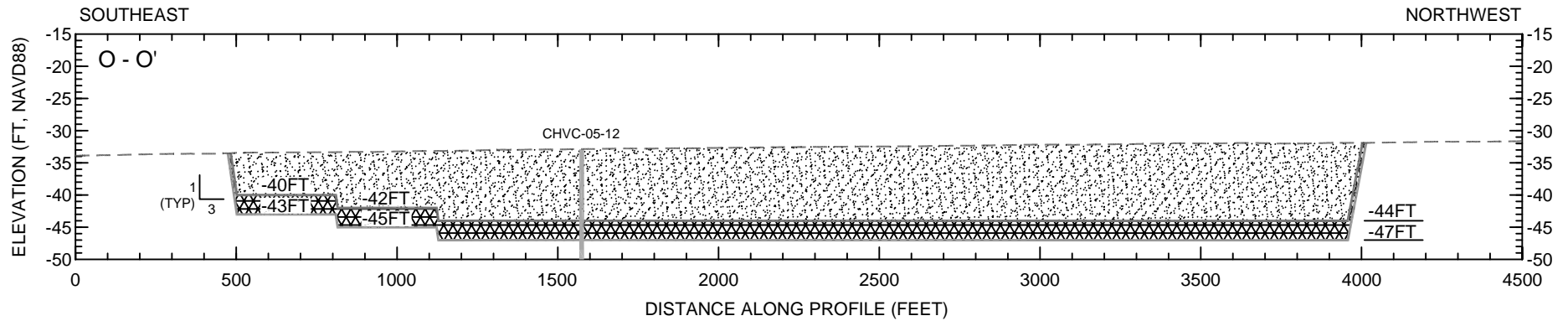
 DESIGN DREDGE CUT

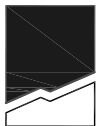
 DESIGN LIMIT OF DISTURBANCE

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.
3. MEAN HIGH WATER = +0.88FT NAVD88, MEAN LOW WATER = -0.37 FT NAVD88.

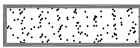
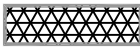



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802		TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT STATE PROJECT NUMBER: TE-143 DATE: APRIL 2018	
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048		APPROVED BY: TRAVIS BYLAND, P.E.		FEDERAL PROJECT NUMBER: SHEET 21 OF 36	

LEGEND:

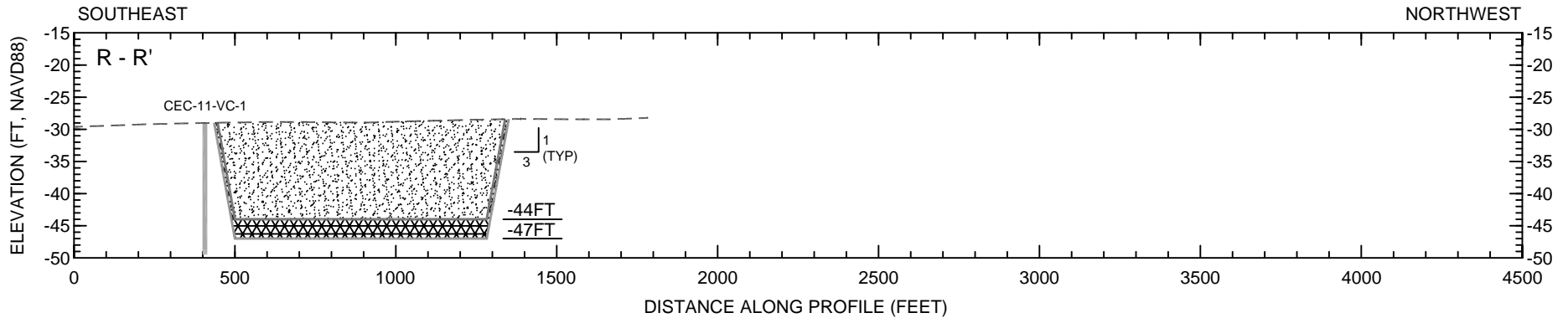
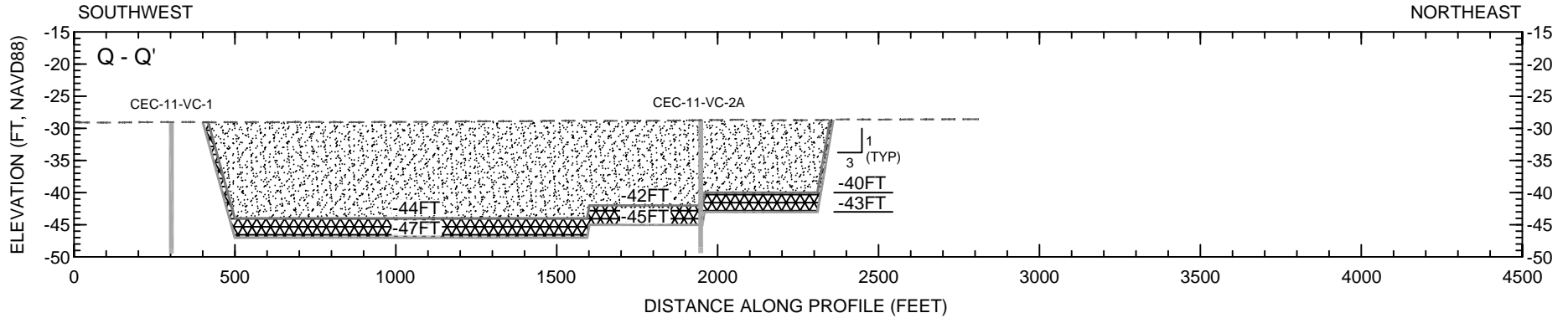
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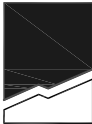
H: 1" = 500'
 V: 1" = 25'

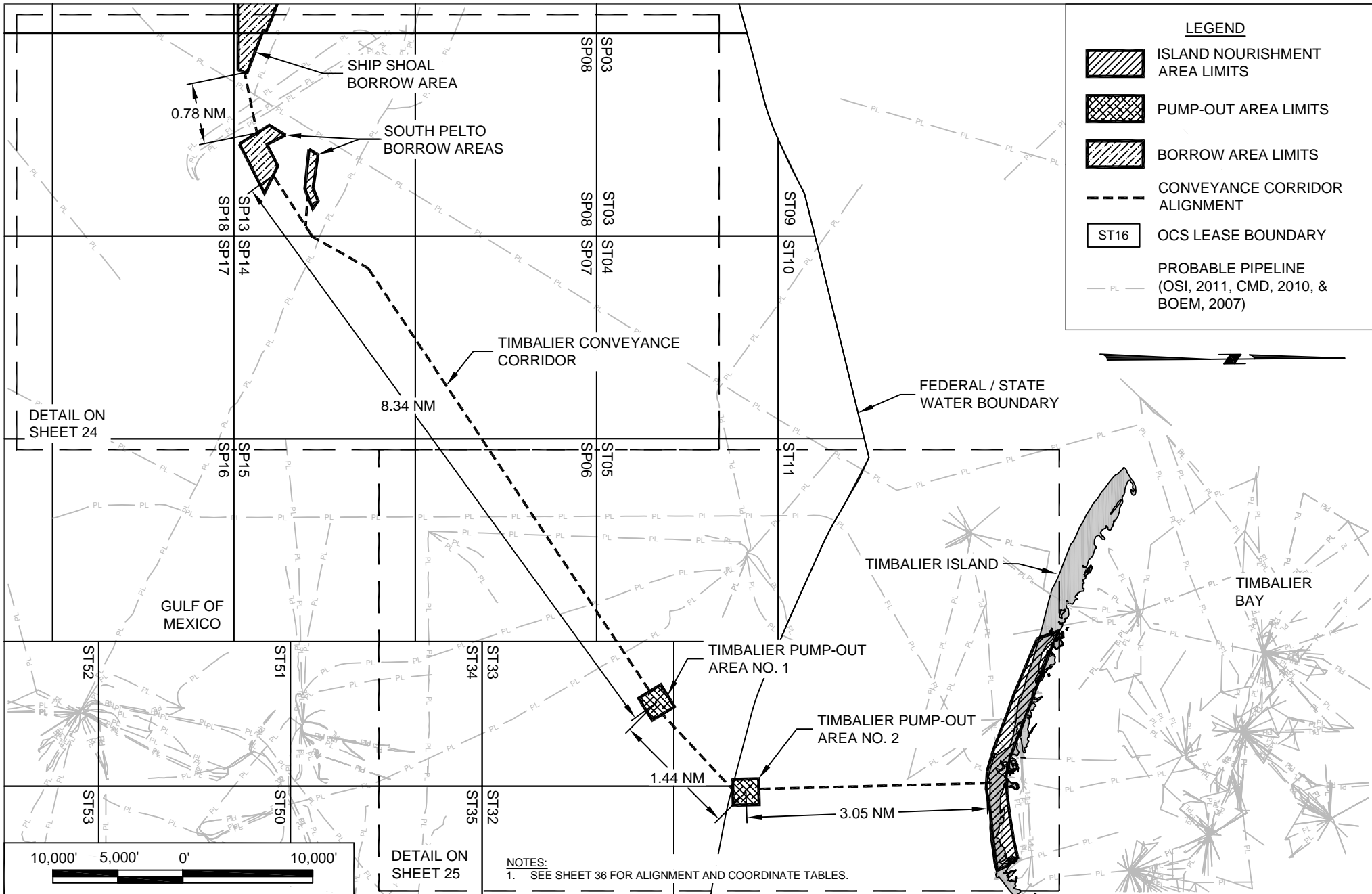
- - - - - EXISTING GRADE (2011)  DESIGN DREDGE CUT
 DESIGN LIMIT OF DISTURBANCE  VIBRACORE (CEC-11-VC-1, OSI 2011)

NOTES:

1. GEOPHYSICAL AND GEOTECHNICAL DATA FROM OSI, 2011.
2. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.
3. MEAN HIGH WATER = +0.88FT NAVD88, MEAN LOW WATER = -0.37 FT NAVD88.



BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	SOUTH PELTO BORROW AREA TYPICAL SECTIONS
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER:	SHEET 22 OF 36



BY	DESCRIPTION	DATE
DRAWN BY: STEVE DARTEZ		

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TIMBALIER PUMP-OUT AREAS & CONVEYANCE CORRIDORS OVERVIEW

DATE: APRIL 2018

SHEET 23 OF 36

TIMBALIER CONVEYANCE CORRIDOR




SHIP SHOAL BORROW AREA

SOUTH PELTO BORROW AREAS

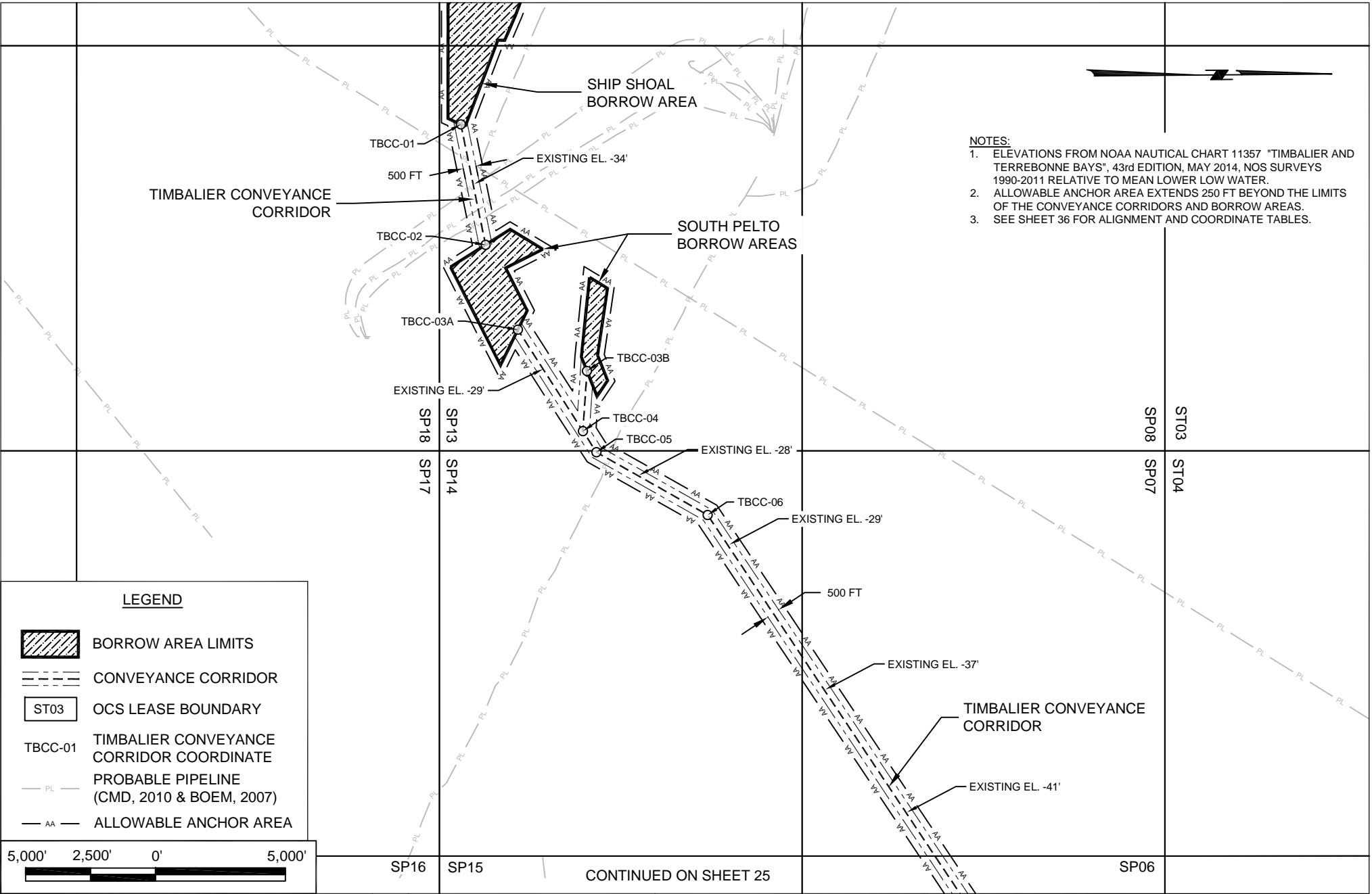
NOTES:

1. ELEVATIONS FROM NOAA NAUTICAL CHART 11357 "TIMBALIER AND TERREBONNE BAYS", 43rd EDITION, MAY 2014, NOS SURVEYS 1990-2011 RELATIVE TO MEAN LOWER LOW WATER.
2. ALLOWABLE ANCHOR AREA EXTENDS 250 FT BEYOND THE LIMITS OF THE CONVEYANCE CORRIDORS AND BORROW AREAS.
3. SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

LEGEND

-  BORROW AREA LIMITS
-  CONVEYANCE CORRIDOR
-  OCS LEASE BOUNDARY
- TBCC-01 TIMBALIER CONVEYANCE CORRIDOR COORDINATE
- PL — PROBABLE PIPELINE (CMD, 2010 & BOEM, 2007)
- AA — ALLOWABLE ANCHOR AREA

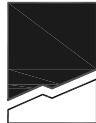
5,000' 2,500' 0' 5,000'



CONTINUED ON SHEET 25

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ



COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

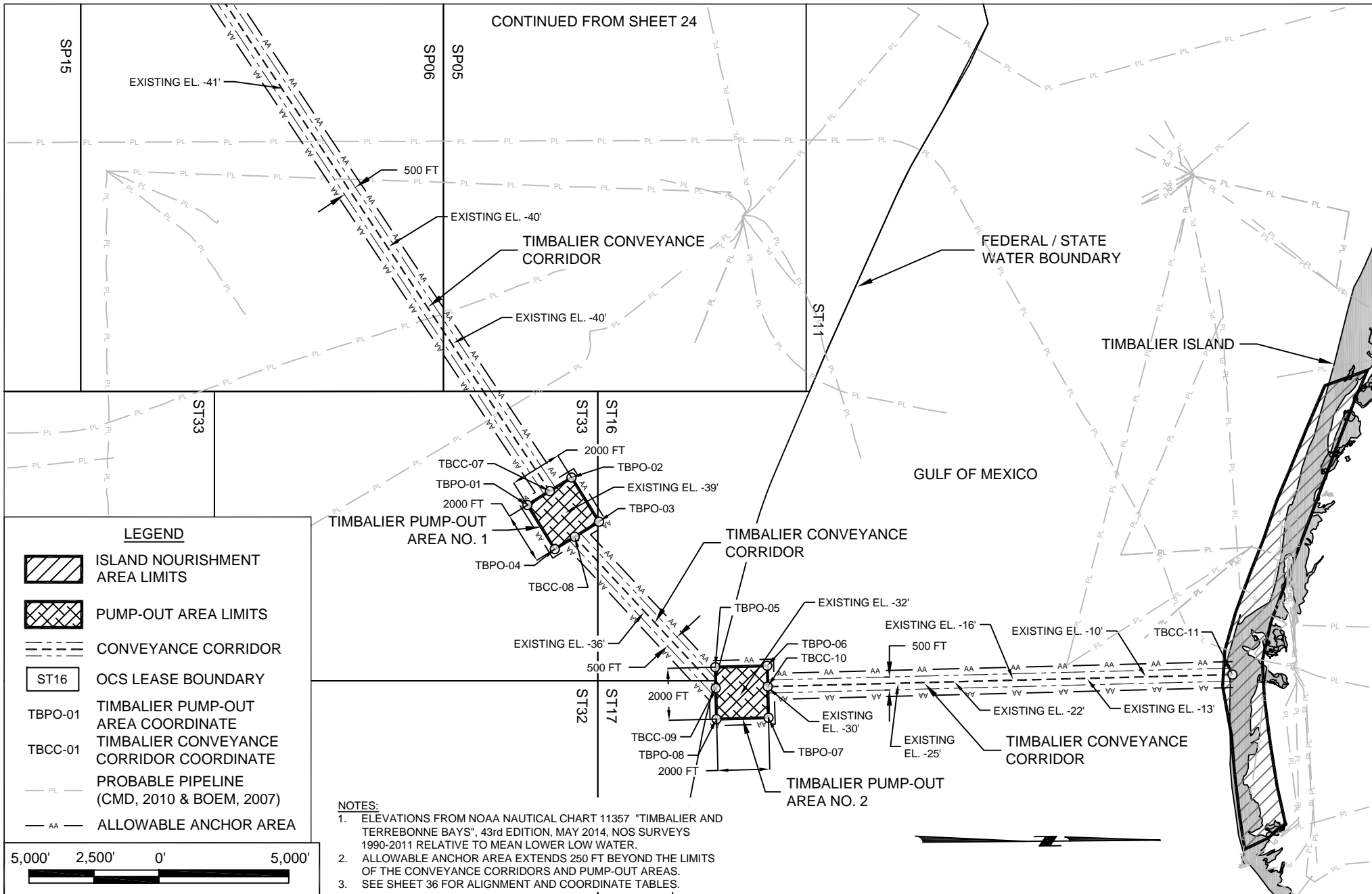
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TIMBALIER PUMP-OUT AREAS & CONVEYANCE CORRIDORS PLAN VIEW

DATE: APRIL 2018

SHEET 24 OF 36



LEGEND

- ISLAND NOURISHMENT AREA LIMITS
- PUMP-OUT AREA LIMITS
- CONVEYANCE CORRIDOR
- OCS LEASE BOUNDARY
- TBPO-01 TIMBALIER PUMP-OUT AREA COORDINATE
- TBCC-01 TIMBALIER CONVEYANCE CORRIDOR COORDINATE
- PL — PROBABLE PIPELINE (CMD, 2010 & BOEM, 2007)
- AA — ALLOWABLE ANCHOR AREA

NOTES:

1. ELEVATIONS FROM NOAA NAUTICAL CHART 11357 "TIMBALIER AND TERREBONNE BAYS", 43rd EDITION, MAY 2014, NOS SURVEYS 1990-2011 RELATIVE TO MEAN LOWER LOW WATER.
2. ALLOWABLE ANCHOR AREA EXTENDS 250 FT BEYOND THE LIMITS OF THE CONVEYANCE CORRIDORS AND PUMP-OUT AREAS.
3. SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

**COASTAL
ENGINEERING
CONSULTANTS, INC.**

PH: (225) 768-1982
8570 ANSELMO LANE
BATON ROUGE, LA 70810

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.

TERREBONNE BASIN
BARRIER ISLAND AND BEACH
NOURISHMENT

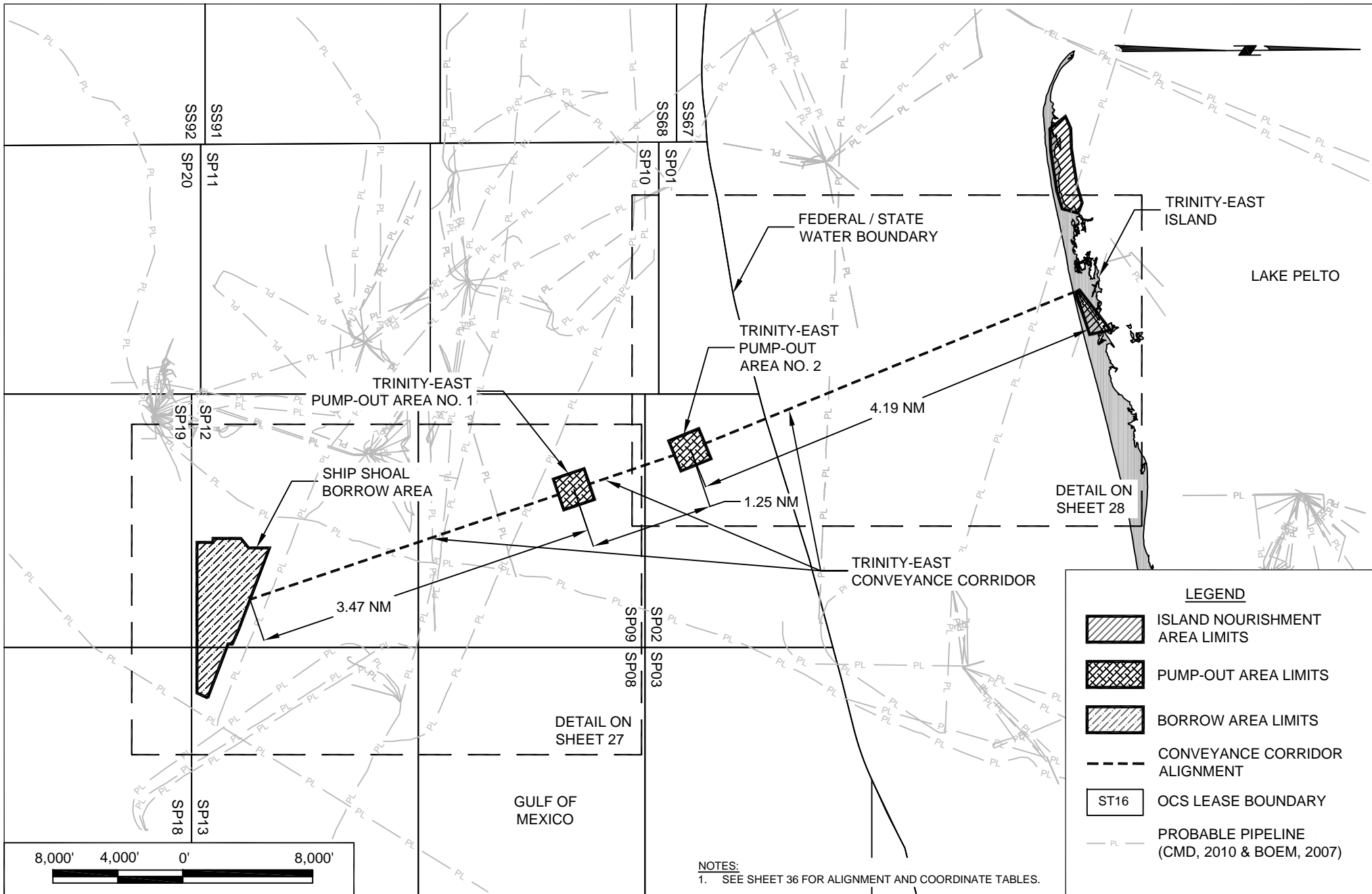
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TIMBALIER PUMP-OUT
AREAS & CONVEYANCE
CORRIDORS PLAN VIEW







DATE: APRIL 2018

SHEET 25 OF 36



NOTES:
1. SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

LEGEND

-  ISLAND NOURISHMENT AREA LIMITS
-  PUMP-OUT AREA LIMITS
-  BORROW AREA LIMITS
-  CONVEYANCE CORRIDOR ALIGNMENT
-  OCS LEASE BOUNDARY
-  PROBABLE PIPELINE (CMD, 2010 & BOEM, 2007)

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ



COASTAL ENGINEERING CONSULTANTS, INC.
PH: (225) 768-1982
8570 ANSELMO LANE
BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

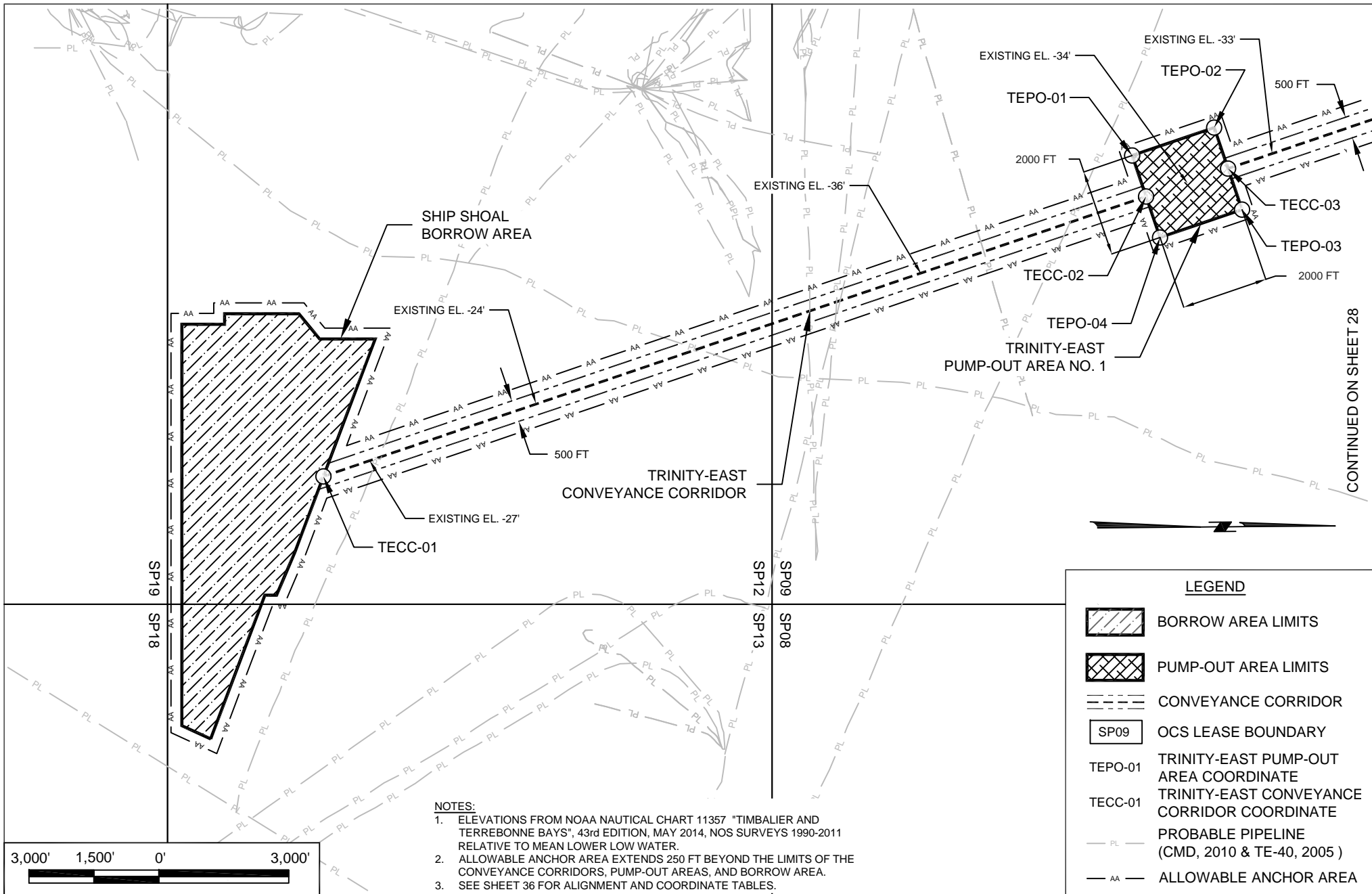
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TRINITY-EAST PUMP-OUT AREAS & CONVEYANCE CORRIDORS OVERVIEW

DATE: APRIL 2018

SHEET 26 OF 36



CONTINUED ON SHEET 28

LEGEND	
	BORROW AREA LIMITS
	PUMP-OUT AREA LIMITS
	CONVEYANCE CORRIDOR
	OCS LEASE BOUNDARY
TEPO-01	TRINITY-EAST PUMP-OUT AREA COORDINATE
TECC-01	TRINITY-EAST CONVEYANCE CORRIDOR COORDINATE
	PROBABLE PIPELINE (CMD, 2010 & TE-40, 2005)
	ALLOWABLE ANCHOR AREA

- NOTES:**
- ELEVATIONS FROM NOAA NAUTICAL CHART 11357 "TIMBALIER AND TERREBONNE BAYS", 43rd EDITION, MAY 2014, NOS SURVEYS 1990-2011 RELATIVE TO MEAN LOWER LOW WATER.
 - ALLOWABLE ANCHOR AREA EXTENDS 250 FT BEYOND THE LIMITS OF THE CONVEYANCE CORRIDORS, PUMP-OUT AREAS, AND BORROW AREA.
 - SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

BY	DESCRIPTION	DATE

DRAWN BY: STEVE DARTEZ

DATE



COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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.

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT

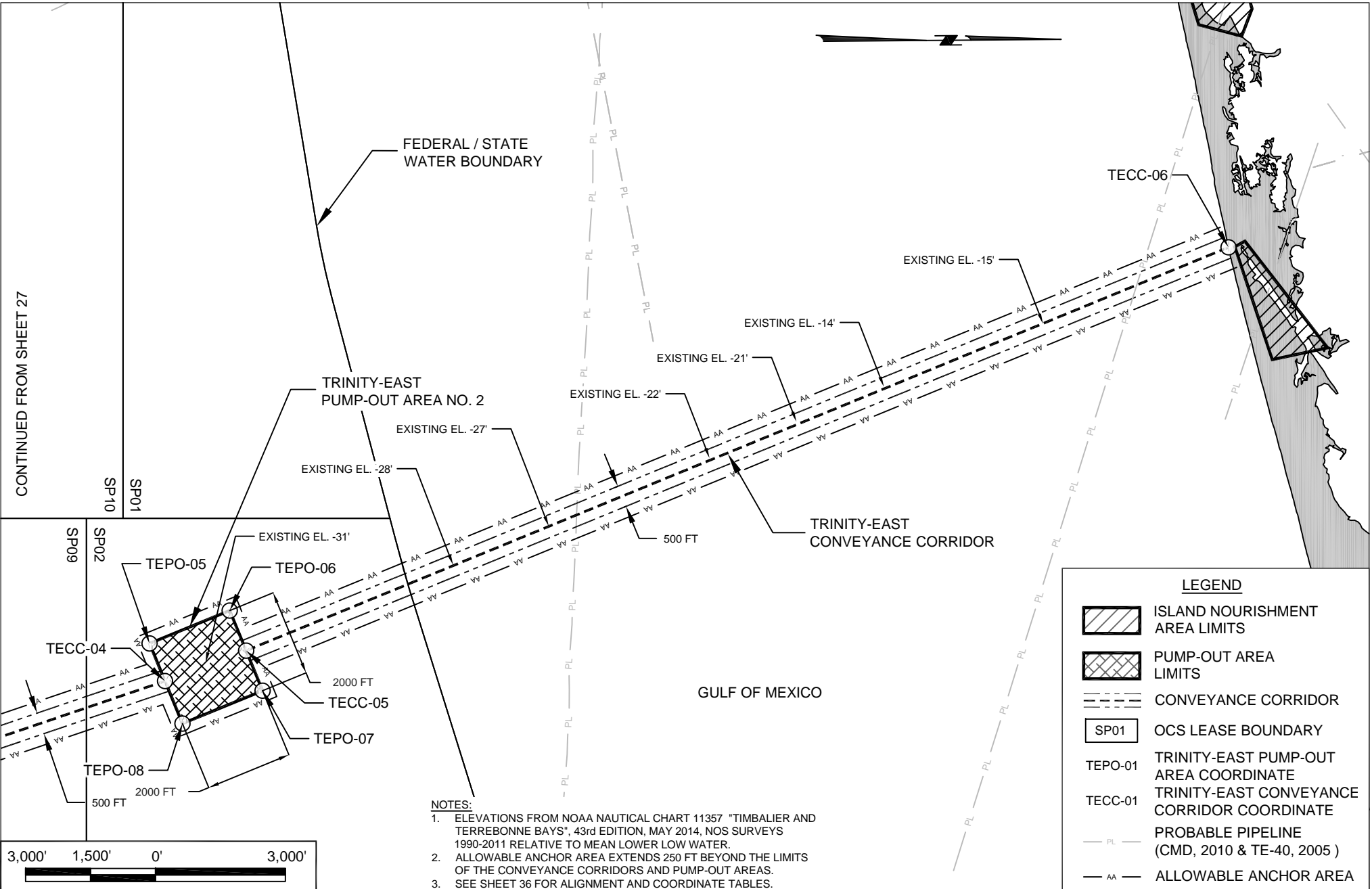
STATE PROJECT NUMBER: TE-143

FEDERAL PROJECT NUMBER:

TRINITY-EAST PUMP-OUT AREAS & CONVEYANCE CORRIDORS PLAN VIEW

DATE: APRIL 2018

SHEET 27 OF 36



- NOTES:**
1. ELEVATIONS FROM NOAA NAUTICAL CHART 11357 "TIMBALIER AND TERREBONNE BAYS", 43rd EDITION, MAY 2014, NOS SURVEYS 1990-2011 RELATIVE TO MEAN LOWER LOW WATER.
 2. ALLOWABLE ANCHOR AREA EXTENDS 250 FT BEYOND THE LIMITS OF THE CONVEYANCE CORRIDORS AND PUMP-OUT AREAS.
 3. SEE SHEET 36 FOR ALIGNMENT AND COORDINATE TABLES.

LEGEND	
	ISLAND NOURISHMENT AREA LIMITS
	PUMP-OUT AREA LIMITS
	CONVEYANCE CORRIDOR
	OCS LEASE BOUNDARY
TEPO-01	TRINITY-EAST PUMP-OUT AREA COORDINATE
TECC-01	TRINITY-EAST CONVEYANCE CORRIDOR COORDINATE
	PROBABLE PIPELINE (CMD, 2010 & TE-40, 2005)
	ALLOWABLE ANCHOR AREA

BY	DESCRIPTION	DATE

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT
 STATE PROJECT NUMBER: TE-143

TRINITY-EAST PUMP-OUT AREAS & CONVEYANCE CORRIDORS PLAN VIEW
 DATE: APRIL 2018

DRAWN BY: STEVE DARTEZ

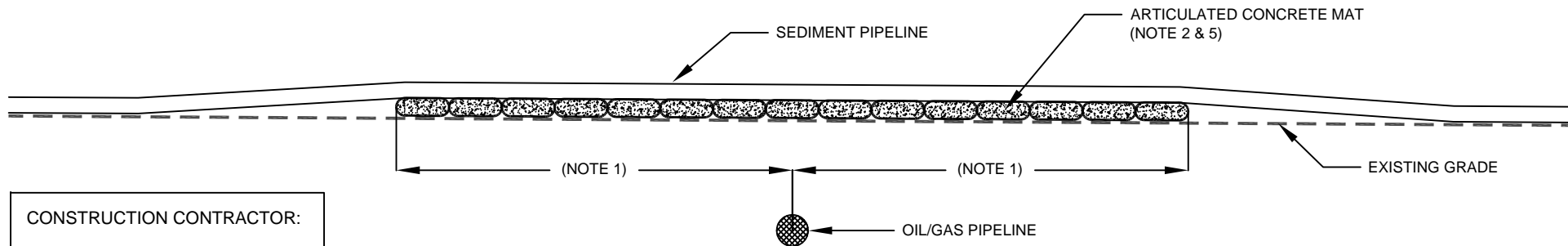
DESIGNED BY: MICHAEL T. POFF, P.E.
 LICENSE NUMBER: 30048

APPROVED BY: TRAVIS BYLAND, P.E.

FEDERAL PROJECT NUMBER:

SHEET 28 OF 36

CONTINUED FROM SHEET 27

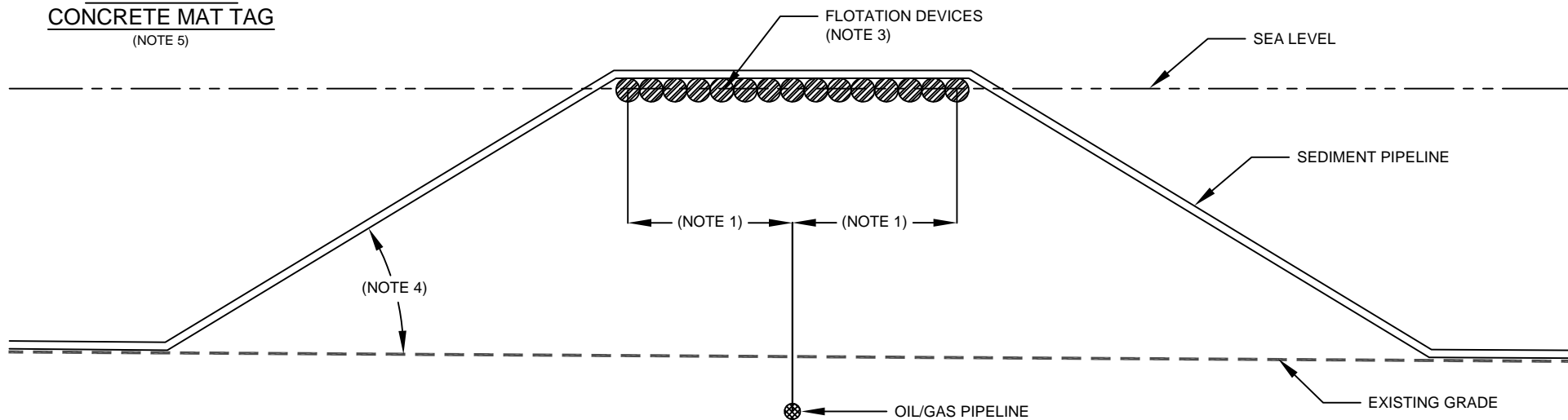


**OPTIONAL TEMPORARY ARTICULATED
CONCRETE MAT PROTECTION CROSSING**
NOT TO SCALE

CONSTRUCTION CONTRACTOR:

PHONE NUMBER:
PROJECT NAME:
PERMIT NUMBER:

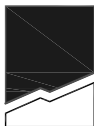
**ARTICULATED
CONCRETE MAT TAG**
(NOTE 5)

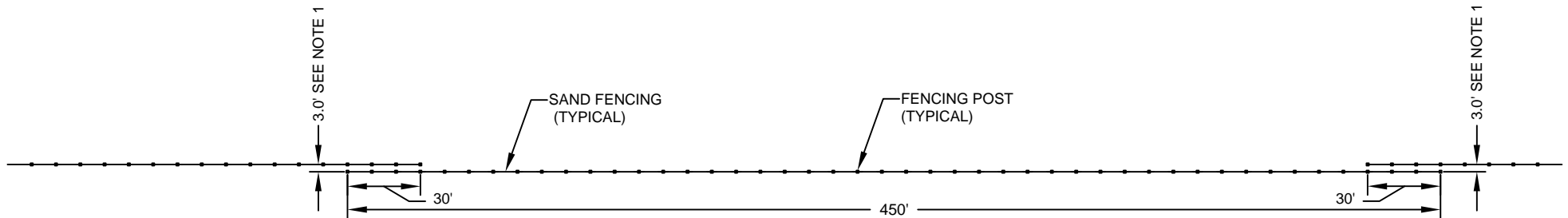


OPTIONAL TEMPORARY FLotation CROSSING
NOT TO SCALE

NOTES:

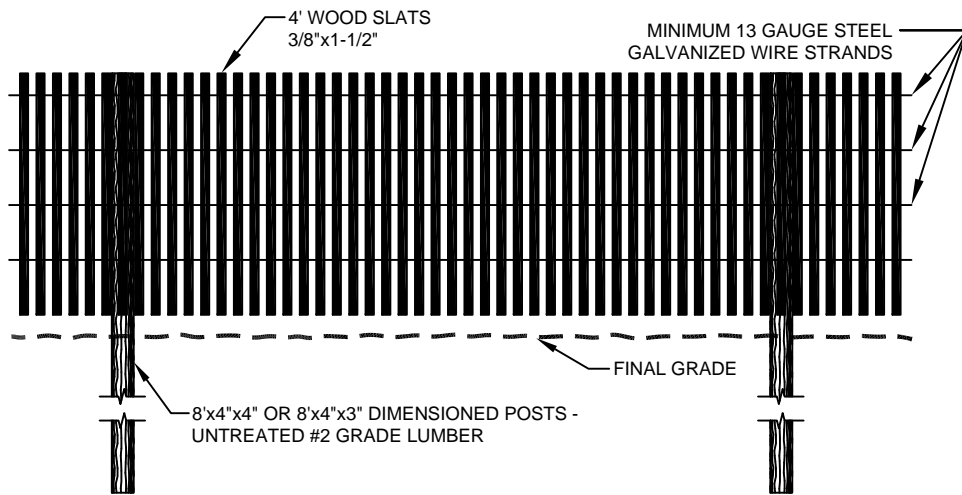
1. MEANS AND METHODS OF SEDIMENT PIPELINE CROSSING OF AN OIL/GAS PIPELINE SHALL BE COORDINATED BY THE CONSTRUCTION CONTRACTOR WITH THE OIL/GAS PIPELINE OPERATOR.
2. ARTICULATED CONCRETE MAT CONSTRUCTION AND COVERAGE AREA SHALL BE COORDINATED BY THE CONSTRUCTION CONTRACTOR WITH THE OIL/GAS PIPELINE OPERATOR
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.
5. INDIVIDUAL MAT SEGMENTS SHALL BE IDENTIFIED WITH THE ATTACHMENT OF A 2 INCH X 4 INCH TAG. TAGS SHALL BE MADE OF A NON-CORROSIVE MATERIAL AND ATTACHED IN A MANNER AS TO PREVENT GALVANIC CORROSION WITH THE LONGITUDINAL CABLES OF THE MATS. THE TAGS SHALL BE STAMPED OR ENGRAVED IN ACCORDANCE WITH THE ARTICULATED CONCRETE MAT TAG DETAIL ABOVE AND THE CONTRACT SPECIFICATIONS.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	OPTIONAL SEDIMENT PIPELINE CROSSING TYPICAL DETAILS
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 29 OF 36		

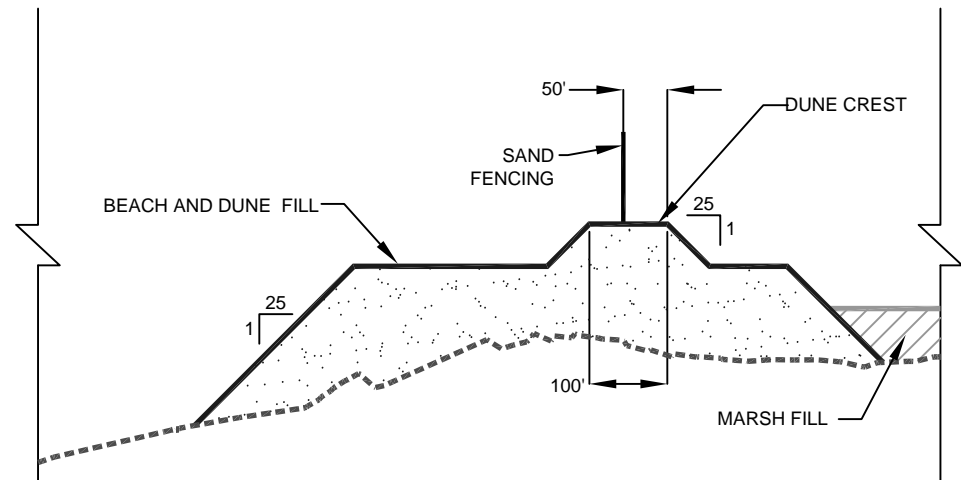


NOTES:
 1. THE DISTANCE BETWEEN FENCES SHALL BE INCREASED FROM 3.0' TO 8.0' AT EVERY FIFTH GAP TO ALLOW ALL-TERRAIN VEHICLE ACCESS.

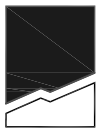
FENCING GAPPING DIMENSIONS
 NOT TO SCALE





FENCING DETAIL
 NOT TO SCALE

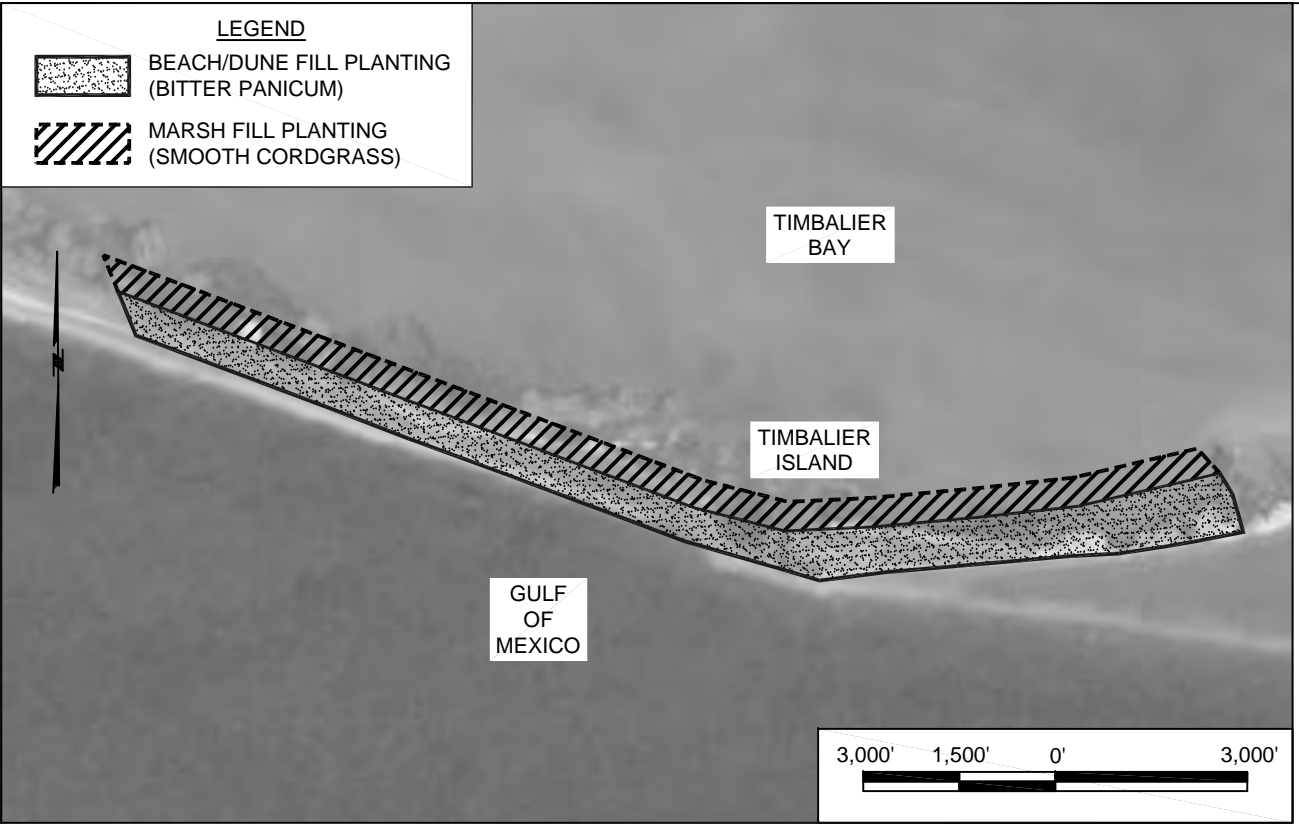


FENCING SECTION TYPICAL
 NOT TO SCALE

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	SAND FENCING DETAILS
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.			FEDERAL PROJECT NUMBER:	SHEET 30 OF 36

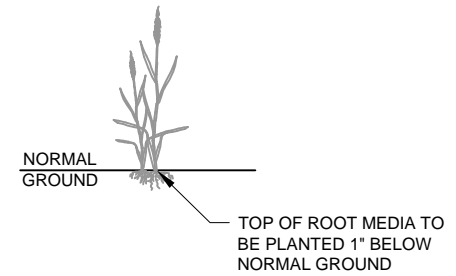
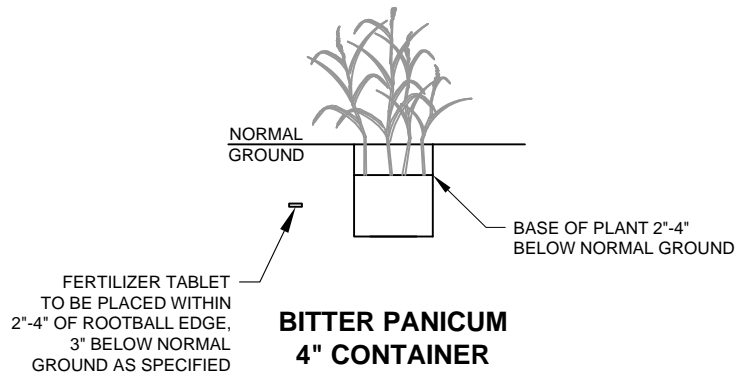
LEGEND

-  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) FEET APART.
2. SMOOTH CORDGRASS PLANTS SHALL BE PLANTED ON THREE (3) FOOT CENTERS WITH ROWS THREE (3) FEET APART.
3. SPECIES OF PLANTS ARE SUBJECT TO CHANGE DUE TO SITE CONDITIONS AND / OR CONSTRUCTION VARIABLES.



BY	DESCRIPTION	DATE

COASTAL ENGINEERING CONSULTANTS, INC.
 PH: (225) 768-1982
 8570 ANSELMO LANE
 BATON ROUGE, LA 70810

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

TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT
 STATE PROJECT NUMBER: TE-143

TIMBALIER ISLAND VEGETATIVE PLANTING DETAILS
 DATE: APRIL 2018

DRAWN BY: STEVE DARTEZ

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

APPROVED BY: TRAVIS BYLAND, P.E.

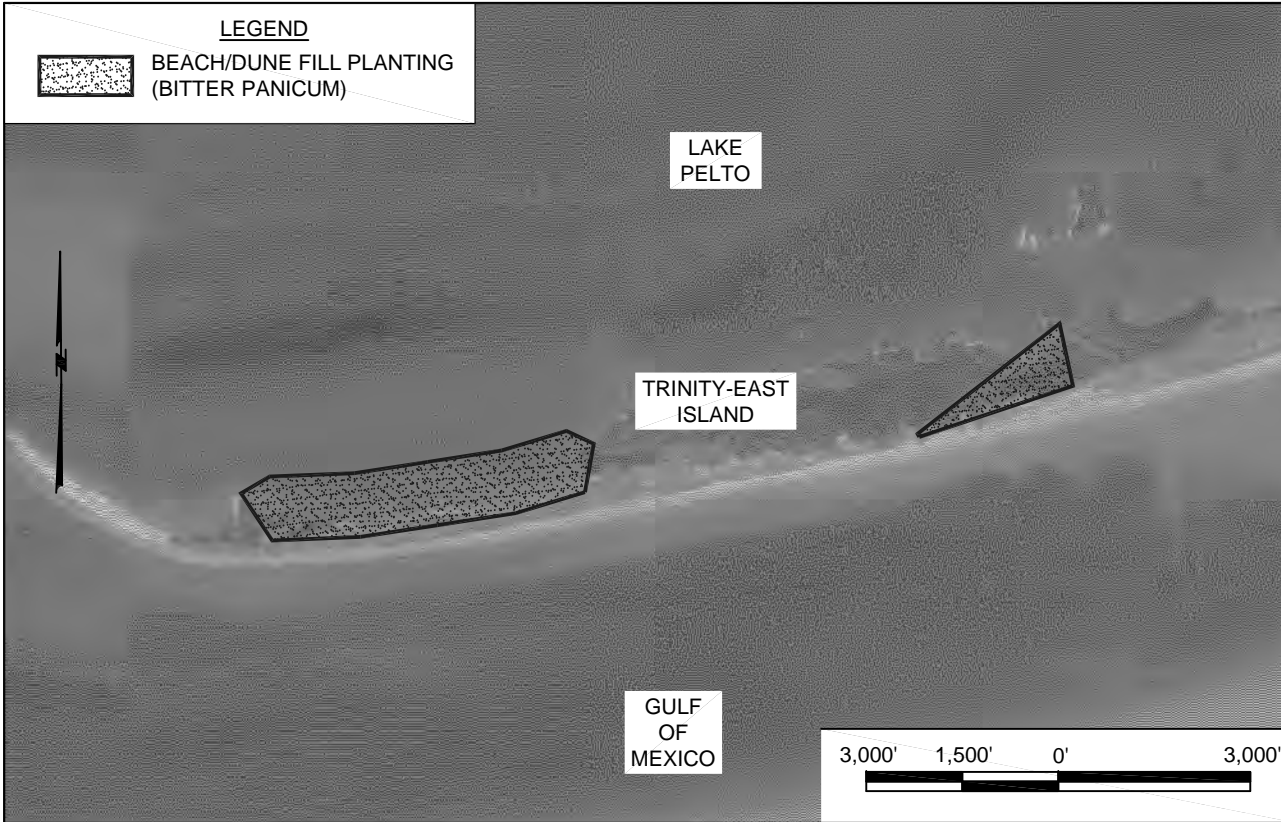
FEDERAL PROJECT NUMBER:

SHEET 21 OF 36

LEGEND

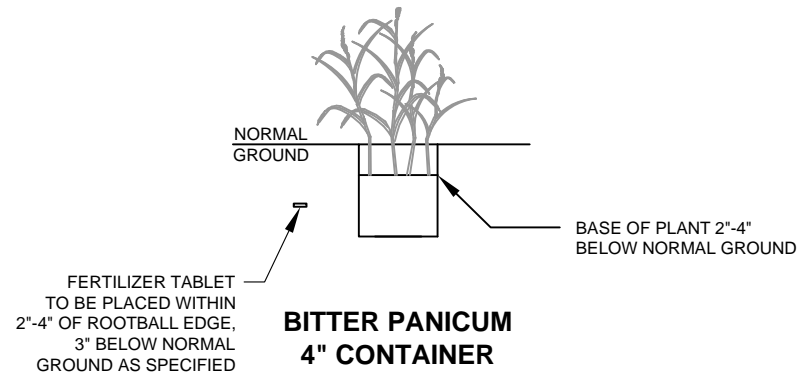


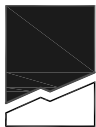
BEACH/DUNE FILL PLANTING
(BITTER PANICUM)



NOTES:

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



BY	DESCRIPTION	DATE	 <p>COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810</p>	<p>LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802</p>	<p>TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT</p>	<p>TRINITY-EAST ISLAND VEGETATIVE PLANTING DETAILS</p>
					<p>STATE PROJECT NUMBER: TE-143</p>	<p>DATE: APRIL 2018</p>
<p>DRAWN BY: STEVE DARTEZ</p>	<p>DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048</p>	<p>APPROVED BY: TRAVIS BYLAND, P.E.</p>			<p>FEDERAL PROJECT NUMBER:</p>	<p>SHEET 32 OF 36</p>

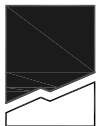
TIMBALIER ISLAND NOURISHMENT AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TB-01	205,634.86	3,562,480.22	29° 03' 44.8286"N	90° 27' 06.5546"W
TB-02	209,618.33	3,544,765.59	29° 04' 25.5681"N	90° 30' 25.8228"W

TIMBALIER ISLAND NOURISHMENT AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBBL-01	205,365.44	3,566,587.67	29° 03' 41.8465"N	90° 26' 20.2997"W
TBBL-02	204,776.76	3,556,104.18	29° 03' 36.8142"N	90° 28' 18.4663"W
TBBL-03	210,062.44	3,542,066.32	29° 04' 30.1561"N	90° 30' 56.2033"W

TIMBALIER ISLAND ACCESS CHANNEL - WEST ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBAW-01	213,627.14	3,546,071.09	29° 05' 05.1586"N	90° 30' 10.7846"W
TBAW-02	210,239.76	3,546,198.54	29° 04' 31.6172"N	90° 30' 09.6251"W
TBAW-03	208,902.63	3,545,586.79	29° 04' 18.4246"N	90° 30' 16.6276"W

TIMBALIER ISLAND ACCESS CHANNEL - EAST ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBAE-01	209,999.64	3,557,147.93	29° 04' 28.4383"N	90° 28' 06.2625"W
TBAE-02	205,524.63	3,556,674.32	29° 03' 44.1749"N	90° 28' 11.9792"W

TIMBALIER ISLAND DOCK REMOVAL ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBDR-01	211,364.05	3,561,562.64	29° 04' 41.6123"N	90° 27' 16.3979"W
TBDR-02	206,966.36	3,562,259.93	29° 03' 58.0260"N	90° 27' 08.9213"W
TBDR-03	206,101.59	3,562,931.06	29° 03' 49.4144"N	90° 27' 01.4345"W
TBDR-04	205,299.01	3,563,140.64	29° 03' 41.4536"N	90° 26' 59.1428"W

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810		LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802		TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT STATE PROJECT NUMBER: TE-143		ALIGNMENT AND COORDINATE TABLES DATE: APRIL 2018	
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048		APPROVED BY: TRAVIS BYLAND, P.E.		FEDERAL PROJECT NUMBER:		SHEET 33 OF 36	

TRINITY-EAST ISLAND NOURISHMENT AREA EXTENTS				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TE-01	201,806.15	3,479,034.66	29° 03' 12.3405"N	90° 42' 46.9855"W
TE-02	200,219.74	3,465,752.40	29° 02' 57.3242"N	90° 45' 16.7164"W

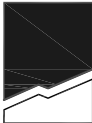
TRINITY-EAST ISLAND DOCK REMOVAL ACCESS CHANNEL ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEDR-01	207,315.10	3,491,162.86	29° 04' 06.2052"N	90° 40' 29.9907"W
TEDR-02	206,527.52	3,491,535.91	29° 03' 58.3875"N	90° 40' 25.8383"W
TEDR-03	206,266.15	3,492,312.98	29° 03' 55.7557"N	90° 40' 17.0996"W
TEDR-04	205,305.85	3,492,733.91	29° 03' 46.2254"N	90° 40' 12.4195"W

TRINITY-EAST ISLAND NOURISHMENT AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEBL-01	205,485.64	3,493,634.28	29° 03' 47.9535"N	90° 40' 02.2631"W
TEBL-02	201,928.61	3,480,611.32	29° 03' 13.4680"N	90° 42' 29.2151"W
TEBL-03	198,918.72	3,463,372.10	29° 02' 44.5633"N	90° 45' 43.6052 "W

TRINITY-EAST ISLAND UPLAND CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEUC-01	201,007.94	3,476,633.81	29° 03' 04.5667"N	90° 43' 14.0820"W
TEUC-02	200,683.61	3,475,860.37	29° 03' 01.3969"N	90° 43' 22.8150"W
TEUC-03	200,473.79	3,474,750.80	29° 02' 59.3783"N	90° 43' 35.3277"W
TEUC-04	199,802.36	3,471,503.83	29° 02' 52.9004"N	90° 44' 11.9468"W
TEUC-05	200,144.76	3,471,411.47	29° 02' 56.2947"N	90° 44' 12.9672"W

TRINITY-EAST ISLAND ACCESS CHANNEL - WEST ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEAW-01	203,348.14	3,470,925.68	29° 03' 28.0307"N	90° 44' 18.2526"W
TEAW-02	200,366.05	3,471,253.02	29° 02' 58.4935"N	90° 44' 14.7394"W

TRINITY-EAST ISLAND ACCESS CHANNEL - EAST ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEAE-01	206,210.44	3,481,206.26	29° 03' 55.8227"N	90° 42' 22.2483"W
TEAE-02	204,299.75	3,481,275.87	29° 03' 36.9046"N	90° 42' 21.5819"W
TEAE-03	202,590.52	3,478,865.98	29° 03' 20.1143"N	90° 42' 48.8381"W

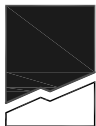
BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	ALIGNMENT AND COORDINATE TABLES
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ		DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048			APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:

SHIP SHOAL BORROW AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SS-01	151,207.85	3,492,320.75	28° 54' 50.7262"N	90° 40' 20.5904"W
SS-02	149,356.59	3,497,235.39	28° 54' 32.1167"N	90° 39' 25.4208"W
SS-03	148,929.76	3,498,235.39	28° 54' 27.8330"N	90° 39' 14.1993"W
SS-04	148,659.33	3,498,235.39	28° 54' 25.1560"N	90° 39' 14.2174"W
SS-05	147,409.44	3,501,553.54	28° 54' 12.5871"N	90° 38' 36.9736"W
SS-06	146,743.44	3,501,249.85	28° 54' 06.0125"N	90° 38' 40.4350"W
SS-07	146,743.44	3,491,980.64	28° 54' 06.5524"N	90° 40' 24.7061"W
SS-08	147,730.12	3,491,980.64	28° 54' 16.3195"N	90° 40' 24.6422"W
SS-09	147,730.12	3,491,738.73	28° 54' 16.3333"N	90° 40' 27.3636"W
SS-10	149,445.75	3,491,738.73	28° 54' 33.3164"N	90° 40' 27.2526"W
SS-11	149,925.54	3,492,320.75	28° 54' 38.0326"N	90° 40' 20.6736"W

SOUTH PEL TO BORROW AREA BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SP-01	150,392.85	3,506,277.54	28° 54' 41.8353"N	90° 37' 43.6252"W
SP-02	148,960.81	3,507,005.98	28° 54' 27.6151"N	90° 37' 35.5293"W
SP-03	149,791.57	3,508,641.67	28° 54' 35.7387"N	90° 37' 17.0700"W
SP-04	148,764.58	3,510,748.41	28° 54' 25.4423"N	90° 36' 53.4415"W
SP-05	146,840.74	3,506,965.98	28° 54' 06.6311"N	90° 37' 36.1264"W
SP-06	149,134.09	3,505,516.48	28° 54' 29.4211"N	90° 37' 52.2741"W
SP-07	152,880.88	3,507,781.83	28° 55' 06.3724"N	90° 37' 26.5282"W
SP-08	152,502.45	3,510,367.52	28° 55' 02.4670"N	90° 36' 57.4632"W
SP-09	152,888.79	3,511,334.60	28° 55' 06.2314"N	90° 36' 46.5553"W
SP-10	152,481.63	3,511,944.52	28° 55' 02.1628"N	90° 36' 39.7220"W
SP-11	151,877.90	3,510,430.43	28° 54' 56.2807"N	90° 36' 56.7994"W
SP-12	152,190.12	3,507,364.19	28° 54' 59.5602"N	90° 37' 31.2751"W

SHIP SHOAL BORROW AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SSBL-01	146,243.44	3,502,079.82	28° 54' 01.0135"N	90° 38' 31.1323"W
SSBL-02	146,243.44	3,491,279.82	28° 54' 01.6428"N	90° 40' 32.6220"W

SHIP SHOAL BORROW AREA BASELINE ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
SPBL-01	150,630.66	3,516,930.09	28° 54' 43.5257"N	90° 35' 43.7640"W
SPBL-02	145,552.75	3,506,947.36	28° 53' 53.8825"N	90° 37' 36.4253"W

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	ALIGNMENT AND COORDINATE TABLES
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ		DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048			APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:

TIMBALIER PUMP-OUT AREA NO. 1 BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBPO-01	177,568.19	3,549,616.27	28° 59' 07.9517"N	90° 29' 33.8132"W
TBPO-02	179,266.53	3,548,560.02	28° 59' 24.8401"N	90° 29' 45.5652"W
TBPO-03	180,322.78	3,550,258.36	28° 59' 35.1727"N	90° 29' 26.3562"W
TBPO-04	178,624.44	3,551,314.61	28° 59' 18.2838"N	90° 29' 14.6048"W

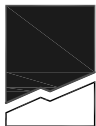
TRINITY-EAST PUMP-OUT AREA NO. 1 BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEPO-01	168,688.89	3,488,084.72	28° 57' 44.0114"N	90° 41' 07.1361"W
TEPO-02	170,582.34	3,487,440.65	28° 58' 02.7909"N	90° 41' 14.2656"W
TEPO-03	171,226.41	3,489,334.10	28° 58' 09.0604"N	90° 40' 52.9105"W
TEPO-04	169,332.96	3,489,978.17	28° 57' 50.2806"N	90° 40' 45.7821"W

TIMBALIER PUMP-OUT AREA NO. 2 BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBPO-05	184,797.61	3,555,854.06	29° 00' 19.0576"N	90° 28' 22.9744"W
TBPO-06	186,796.95	3,555,802.57	29° 00' 38.8530"N	90° 28' 23.3852"W
TBPO-07	186,848.44	3,557,801.91	29° 00' 39.2136"N	90° 28' 00.8658"W
TBPO-08	184,849.10	3,557,853.40	29° 00' 19.4182"N	90° 28' 00.4562"W

TRINITY-EAST PUMP-OUT AREA NO. 2 BOUNDARY				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TEPO-05	175,794.61	3,485,734.80	28° 58' 54.4825"N	90° 41' 33.1394"W
TEPO-06	177,644.76	3,484,975.22	28° 59' 12.8393"N	90° 41' 41.5748"W
TEPO-07	178,404.34	3,486,825.31	28° 59' 20.2560"N	90° 41' 20.6972"W
TEPO-08	176,554.19	3,487,584.89	28° 59' 01.8988"N	90° 41' 12.2626"W

TIMBALIER CONVEYANCE CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TBCC-01	147,239.60	3,501,472.88	28° 54' 10.9107"N	90° 38' 37.8924"W
TBCC-02	148,191.03	3,506,110.71	28° 54' 20.0497"N	90° 37' 45.6542"W
TBCC-03A	149,433.01	3,509,377.21	28° 54' 32.1440"N	90° 37' 08.8203"W
TBCC-03B	152,092.30	3,510,968.13	28° 54' 58.3697"N	90° 36' 50.7348"W
TBCC-04	151,936.49	3,513,284.91	28° 54' 56.6826"N	90° 36' 24.6803"W
TBCC-05	152,457.00	3,514,096.41	28° 55' 01.7841"N	90° 36' 15.5130"W
TBCC-06	156,738.51	3,516,514.12	28° 55' 44.0137"N	90° 35' 48.0020"W
TBCC-07	178,430.62	3,549,079.90	28° 59' 16.5278"N	90° 29' 39.7808"W
TBCC-08	179,390.34	3,550,838.27	28° 59' 25.9002"N	90° 29' 19.9042"W
TBCC-09	184,818.48	3,556,664.36	29° 00' 19.2039"N	90° 28' 13.8481"W
TBCC-10	186,817.55	3,556,602.31	29° 00' 38.9974"N	90° 28' 14.3774"W
TBCC-11	204,703.16	3,556,141.69	29° 03' 36.0828"N	90° 28' 18.0499"W

TRINITY-EAST CONVEYANCE CORRIDOR ALIGNMENT				
PI NUMBER	NORTHING	EASTING	LATITUDE	LONGITUDE
TECC-01	150,012.62	3,495,493.81	28° 54' 38.7120"N	90° 39' 44.9704"W
TECC-02	169,010.92	3,489,031.45	28° 57' 47.1461"N	90° 40' 56.4592"W
TECC-03	170,904.38	3,488,387.38	28° 58' 05.9258"N	90° 41' 03.5881"W
TECC-04	176,150.94	3,486,602.73	28° 58' 57.9617"N	90° 41' 23.3456"W
TECC-05	178,024.55	3,485,900.30	28° 59' 16.5478"N	90° 41' 31.1357"W
TECC-06	200,711.10	3,476,586.29	29° 03' 01.6308"N	90° 43' 14.6353"W

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC. PH: (225) 768-1982 8570 ANSELMO LANE BATON ROUGE, LA 70810	LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LA 70802	TERREBONNE BASIN BARRIER ISLAND AND BEACH NOURISHMENT	ALIGNMENT AND COORDINATE TABLES
					STATE PROJECT NUMBER: TE-143	DATE: APRIL 2018
DRAWN BY: STEVE DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E. LICENSE NUMBER: 30048	APPROVED BY: TRAVIS BYLAND, P.E.	FEDERAL PROJECT NUMBER:	SHEET 36 OF 36