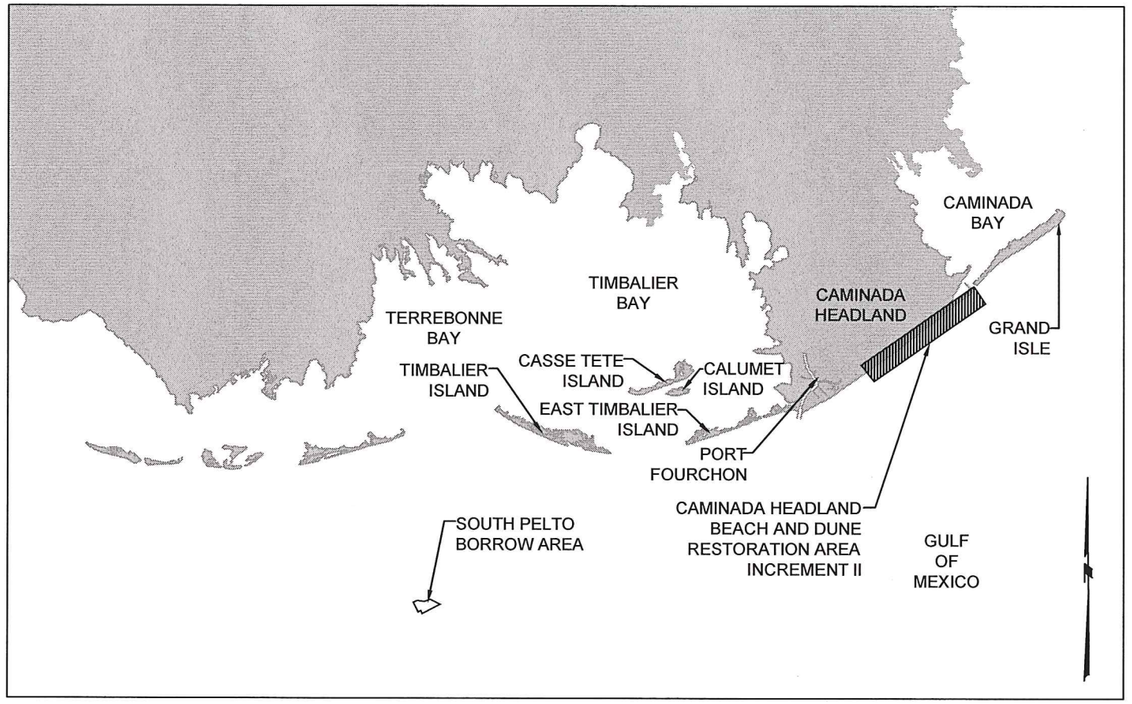
STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

CAMINADA HEADLAND BEACH AND DUNE RESTORATION
INCREMENT II
STATE PROJECT NO. BA-143

LAFOURCHE & JEFFERSON PARISHES, LOUISIANA

INDEX TO SHEETS



50,000' 25,000' 0' 50,000' 100,000'

NOTES:
1. RETAIN ENTIRE SET AS ONE, INDIVIDUAL SHEETS SHOULD NOT BE REMOVED.

CHIEF - ENGINEERING DIVISION

ENGINEER MANAGER

ENGINEER SUPERVISOR

PROJECT ENGINEER

LICENSURE CLASSIFICATION REQUIREMENTS
MAJOR CATEGORY: HEAVY CONSTRUCTION

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
PH: (225) 768-1982
FAX: (225) 769-3596
5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

TITLE SHEET

DATE: MARCH 2014

SHEET 1 OF 40

GENERAL NOTES

1. 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.
2. AERIAL IMAGERY COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012 AND MAY NOT BE INDICATIVE OF CURRENT CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 3 WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AT THE FILL AREA, PUMP-OUT AREAS, AND CONVEYANCE CORRIDORS. THE CONTRACTOR SHALL NOTIFY CHEVRON PIPELINE COMPANY OR CURRENT PIPELINE RIGHT-OF-WAY PERMIT HOLDER NEAR THE BORROW AREA AT LEAST 4 WEEKS PRIOR TO ANY DREDGING AT THE BORROW AREA. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED BY CONTRACTOR.
4. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS/HER WORK. ANYTHING NOT SHOWN ON THESE PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT SERVE AS A BASIS FOR ADDITIONAL COMPENSATION, UNLESS APPROVED BY THE ENGINEER.
5. WATER BOTTOMS SHALL NOT BE DISTURBED DURING ACCESS TO WORK LOCATION, OR BY 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 PLANS OR BY SPECIFICATIONS. POWERED VESSELS SHALL BE OPERATED SO AS NOT TO DISTURB WATER BOTTOMS BY PROPELLER OR JET ACTION.
6. ALL LOGS, STUMPS, AND OTHER DEBRIS UNEARTHED DURING DREDGING SHALL BE REMOVED TO APPROVED OFFSITE DISPOSAL AREA.
7. CONTRACTOR MUST INSTALL AND MAINTAIN ANY SAFETY LIGHTS, SIGNS, AND SIGNALS ON AUTHORIZED FACILITIES AS PRESCRIBED BY U.S. COAST GUARD THROUGH REGULATIONS OR OTHERWISE.
8. 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.
9. WORK INVOLVING USE OF FLOATING CONSTRUCTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO, BARGE MOUNTED CRANES, BARGE MOUNTED PILE DRIVING EQUIPMENT, FLOATING DREDGE EQUIPMENT, AND DREDGE SEDIMENT PIPELINES, IN WATERS WITHIN U.S. COAST GUARD JURISDICTION, SHALL REQUIRE NOTIFICATION BY THE CONTRACTOR TO THE U.S. COAST GUARD SUCH THAT A NOTICE TO MARINERS, IF REQUIRED, MAY BE PREPARED. NOTIFICATION, WITH COPY OF PERMIT APPROVAL AND DRAWINGS, SHALL BE MAILED TO U.S. COAST GUARD, SECTOR NEW ORLEANS COMMAND CENTER, 201 HAMMOND HIGHWAY, METAIRIE, LOUISIANA 70005, 30 DAYS BEFORE COMMENCEMENT OF WORK.
10. SEDIMENT PIPELINES IN OPEN WATER AND/OR NAVIGABLE WATERS SHALL BE MARKED BY THE CONTRACTOR IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN MARKERS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 1,000 FEET OF PIPELINES IN THE OFFSHORE BORROW AREA. NO EXCAVATION SHALL BE PERMITTED WITHIN 50 FEET OF PIPELINES IN THE FILL AREA, OPTIONAL LOWER BELLE PASS, OPTIONAL UPPER BELLE PASS, OR OPTIONAL PASS FOURCHON PUMP-OUT AREAS. A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY CAN BE FOUND IN THE APPENDICES OF THE SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL AT 1-800-272-3020 FIVE (5) WORKING DAYS PRIOR TO EXCAVATION TO LOCATE PIPELINES AND UTILITIES.
11. TEMPORARY UPLAND CONSTRUCTION ACCESS AND STAGING AREAS ARE INDICATED ON SHEETS 14, 19, AND 21. USE OF THESE AREAS SHALL BE COORDINATED WITH THE APPROPRIATE GOVERNMENT AGENCY AND ENGINEER. CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS/HER PLANT, EQUIPMENT, AND OPERATIONS OF PERSONNEL TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, AND REQUIREMENTS OF CONSTRUCTION CONTRACT DOCUMENTS, AND SHALL NOT UNREASONABLY ENCUMBER PREMISES WITH PLANT OR EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION AND RESTORATION OF TEMPORARY CONSTRUCTION ACCESS AREAS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT CONSTRUCTION ACCESS PLAN AND CONSTRUCTION ACCESS RESTORATION PLAN PRIOR TO ITS USAGE. TEMPORARY CONSTRUCTION ACCESS AREAS THAT FALL OUTSIDE OF FILL TEMPLATE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AS PART OF DEMOBILIZATION.
12. TEMPORARY UPLAND ACCESS, EQUIPMENT STAGING AREA, AND SEDIMENT OFFLOAD SITE NEAR LOWER BELLE PASS PUMP-OUT AREA MAY BE USED BY CONTRACTOR TO FACILITATE OFFLOADING OF EXCAVATED SEDIMENTS FROM BOTH BELLE PASS PUMP-OUT AREAS FOR PLACEMENT WITHIN BEACH / DUNE FILL TEMPLATE.
13. THE CONTRACTOR SHALL FOLLOW CONVEYANCE CORRIDORS, REMAIN WITHIN TEMPORARY CONSTRUCTION ACCESS AND STAGING AREAS, AND / OR FILL TEMPLATES, AND SHALL NOT, AT ANY TIME, TRAVEL ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS SPECIFIED IN PERMIT OR THROUGH WRITTEN DIRECTION FROM ENGINEER.
14. THE CONTRACTOR SHOULD REFER TO TS-4.4 FOR INFORMATION REGARDING THE PROTECTION OF EXISTING STRUCTURES AND TS-4.5 FOR THE PROTECTION OF THE SUBSIDENCE MONITORING CONTROL STATIONS.
15. THE CONTRACTOR SHALL WORK COOPERATIVELY WITH THE OWNER TO ADDRESS THE NOTIFICATION AND COORDINATION REQUIREMENTS WITH THE LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES. LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES WITHIN THE PROJECT AREA ARE SHOWN AND LISTED IN THE APPENDICES OF THE SPECIFICATIONS. THE CONTRACTOR SHALL REFER TO THE GENERAL PROVISIONS AND SPECIAL PROVISIONS OF THE CONTRACT DOCUMENTS FOR COORDINATION REQUIREMENTS WITH THESE LANDOWNERS, UTILITY OPERATORS, AND PIPELINE COMPANIES PRIOR TO AND DURING CONSTRUCTION.
16. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY. WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
17. THE BEACH AND DUNE RESTORATION AREAS, BORROW AREAS, PUMP-OUT AREAS, AND/OR CONVEYANCE CORRIDORS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
18. ESTIMATED FILL QUANTITIES AND LINEAR LENGTHS SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS AT THE TIME OF THE SURVEYS SPECIFIED IN THE SURVEY NOTES. FILL QUANTITIES WERE CALCULATED USING THE AVERAGE END AREA METHOD OF SECTIONS.

SURVEY NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 09, U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. SURVEY FEET). ALL BEACH AND DUNE RESTORATION AREA ELEVATIONS ARE BASED ON NATIONAL GEODETIC SURVEY AND LOUISIANA DEPARTMENT OF NATURAL RESOURCES MONUMENTS. SEE APPENDIX E OF THE SPECIFICATIONS FOR SURVEY MONUMENT DATA SHEETS.

MONUMENTS	ELEVATION	NORTHING	EASTING
H 359	4.56'	240,894.82	3,650,437.29
N 221	5.21'	258,567.42	3,693,447.64
TE23-SM-01	7.61'	224,296.40	3,645,688.72

2. BORROW AREA BATHYMETRIC SURVEY PERFORMED BY OCEAN SURVEYS, INC. (OSI), 2011.
3. OPTIONAL LOWER BELLE PASS, OPTIONAL UPPER BELLE PASS, AND ASSOCIATED CONVEYANCE CORRIDOR SURVEYS PERFORMED BY PICCIOLA & ASSOCIATES, INC. AND COASTAL ENGINEERING CONSULTANTS, INC., 2011. OPTIONAL OFFSHORE NO. 1, NO. 2, AND NO. 3 PUMP-OUT AREAS AND ASSOCIATED CONVEYANCE CORRIDOR SURVEYS PERFORMED BY OCEAN SURVEY, INC., 2012.
4. HEADLAND RESTORATION AREA SURVEY PERFORMED BY EMC, INC. 2012 AND PICCOLA AND ASSOCIATES 2010.
5. INFORMATION SHOWN HEREON REFLECTS CONDITIONS AS THEY EXISTED ON SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
6. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ARE BASED ON TIDAL DATUM OBTAINED FROM THE NOAA OPERATED TIDE STATION, "GRAND ISLE - EAST POINT", STATION DESIGNATION 8761724. TIDAL EPOCH REFERENCED AT TIDE STATION IS 1983 - 2001. TIDAL DATUM IS BASED ON 5-YEAR RECORD FROM 2002 - 2006.
7. THE CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION SURVEYS IN ACCORDANCE WITH TS-6 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE DRAWINGS SHOWING THE MAGNETOMETER SURVEY TRACK LINES AND COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS TO THE ENGINEER PRIOR TO EXCAVATION AS PER SPECIFICATIONS.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

REV.	DATE	DESCRIPTION	BY

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

GENERAL & SURVEY NOTES

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DATE: MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

SUMMARY OF SUBMITTALS AND NOTIFICATIONS

DELIVERABLE	SUBMITTAL	DELIVERABLE	SUBMITTAL
WORK PLAN	14 DAYS PRIOR TO PRE-CONSTRUCTION CONFERENCE	NOTICE OF INTENT TO DREDGE	14 DAYS PRIOR TO COMMENCEMENT OF WORK
PROGRESS SCHEDULE	14 DAYS PRIOR TO PRE-CONSTRUCTION CONFERENCE	NOTIFY PIPELINE AND UTILITY OWNERS	AS DEFINED IN APPENDIX M OF THE SPECIFICATIONS
CONSTRUCTION SEQUENCE	WITH WORK PLAN	PROGRESS MEETINGS AND REPORTS	BI-WEEKLY OR AS DETERMINED AT THE PRE-CONST. CONFERENCE
CONSTRUCTION ACCESS AND ACCESS RESTORATION PLAN	WITH WORK PLAN	DAILY PROGRESS REPORT	BY 12:00PM THE FOLLOWING DAY DURING CONSTRUCTION
DREDGE LOCATION METHODS	WITH WORK PLAN	DESCRIPTION OF DAILY NESTING BIRD PATROLS	WITH DAILY PROGRESS REPORT
TIDE MEASUREMENTS AND METHODS	WITH WORK PLAN	NOTICE OF MISPLACED MATERIAL	IMMEDIATELY FOR EACH OCCURRENCE
TURBIDITY CONTROL PLAN	WITH WORK PLAN	NOTIFICATION OF DISCOVERY OF HISTORICAL OR CULTURAL SITES	IMMEDIATELY FOR EACH OCCURRENCE
BORROW AREA CUT SEQUENCE	WITH WORK PLAN	CLAIM FOR INCREASE IN CONTRACT PRICE	WITHIN 14 DAYS OF THE EVENT NECESSITATING INCREASE
OIL AND FUEL STORAGE LOCATIONS	WITH WORK PLAN	CLAIM FOR EXTENSION OF CONTRACT TIME	WITHIN 14 DAYS OF THE EVENT NECESSITATING INCREASE
QUALITY CONTROL PLAN	WITH WORK PLAN	ENDANGERED SPECIES OBSERVER PROGRAM FORMS	AT PROGRESS MEETINGS
COMMUNICATION PLAN	AT PRE-CONSTRUCTION CONFERENCE	SEA TURTLE TRAWLING REPORT	AT PROGRESS MEETINGS
CHANGE ORDER AND FIELD ORDER FORMAT	AT PRE-CONSTRUCTION CONFERENCE	SEA TURTLE TAGGING AND RELOCATION REPORT	AT PROGRESS MEETINGS
NAMES OF ALL SUBCONTRACTORS	PRIOR TO AWARDING SUBCONTRACTS	SEA TURTLE INCIDENTAL TAKE REPORT	WITHIN 24 HOURS OF INCIDENTAL TAKE
CONTACT LOUISIANA ONE CALL	WITHIN 5 WORKING DAYS PRIOR TO CONSTRUCTION UNLESS OTHERWISE DEFINED	SEA TURTLE/POST DREDGING PROJECT CHECKLIST	AT COMPLETION OF CONSTRUCTION DREDGING
PRE-CONSTRUCTION SURVEYS	SUBMITTED AND APPROVED PRIOR TO BEGINNING WORK	AS-BUILT SURVEY DRAWINGS	PRIOR TO FINAL ACCEPTANCE
SURVEY DELIVERABLES	WITHIN 30 DAYS OF SURVEY COMPLETION	NOTICE OF COMPLETION OF WORK	FOLLOWING COMPLETION OF WORK

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	SURVEYS	LUMP SUM	1
3	BEACH AND DUNE FILL	CUBIC YARD	5,395,900
4	SAND FENCING	LINEAR FOOT	41,100
5	SEA TURTLE RELOCATION TRAWLING	DAYS	51
6	SEA TURTLE TISSUE SAMPLING (RELOCATION TRAWLING)	EACH	32
7	SEA TURTLE OBSERVATIONS (DREDGE)	LUMP SUM	1
8	SETTLEMENT PLATES	EACH	8
9	RESTRICTED VEHICLE ACCESS SIGN PANELS	EACH	14
10	RESTRICTED VEHICLE ACCESS SIGN PILING	EACH	7

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

ESTIMATED QUANTITIES & SUMMARY OF SUBMITTALS

STATE PROJECT NUMBER: BA-143

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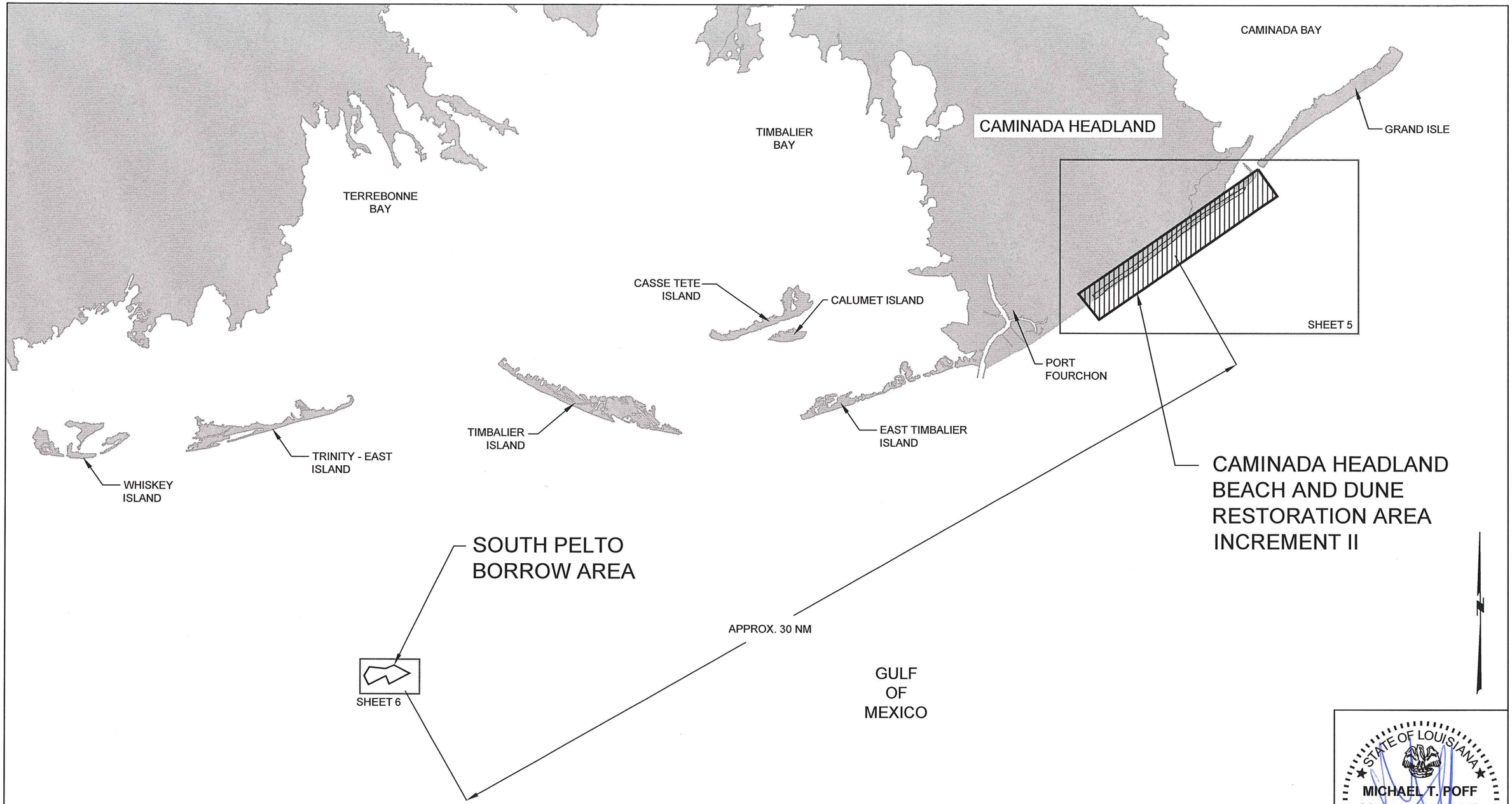

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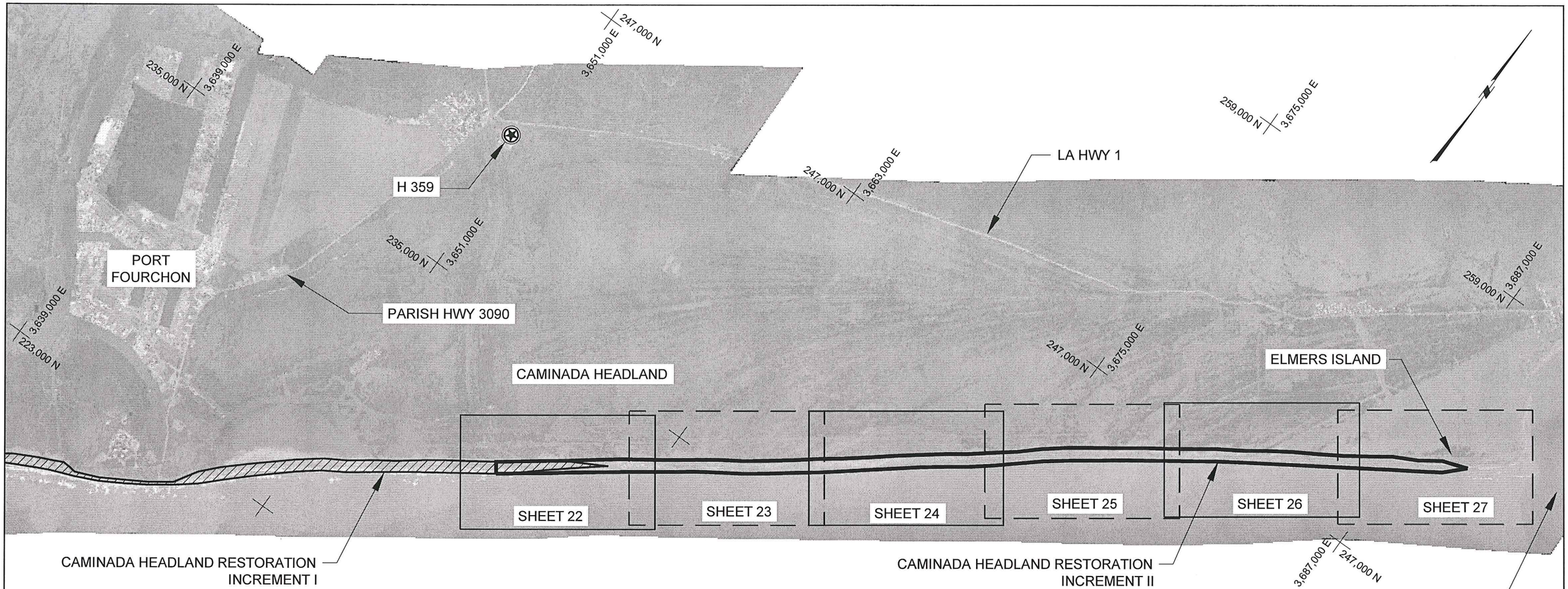
APPROVED BY: CATHERINE RICKS, P.E.

PROJECT OVERVIEW

DATE: MARCH 2014

SHEET 4 OF 40



LEGEND

- INCREMENT I BEACH/DUNE FILL
- INCREMENT II BEACH/DUNE FILL
- SURVEY MONUMENT

NOTES:

1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, U.S. SURVEY FEET.
3. SEE SHEET 2 AND APPENDIX E OF THE SPECIFICATIONS FOR SURVEY MONUMENT DETAILS.
4. SEE SHEETS 8 THROUGH 18 FOR OPTIONAL PUMP-OUT AREAS AND CONVEYANCE CORRIDORS.

4,000' 2,000' 0' 4,000' 8,000'

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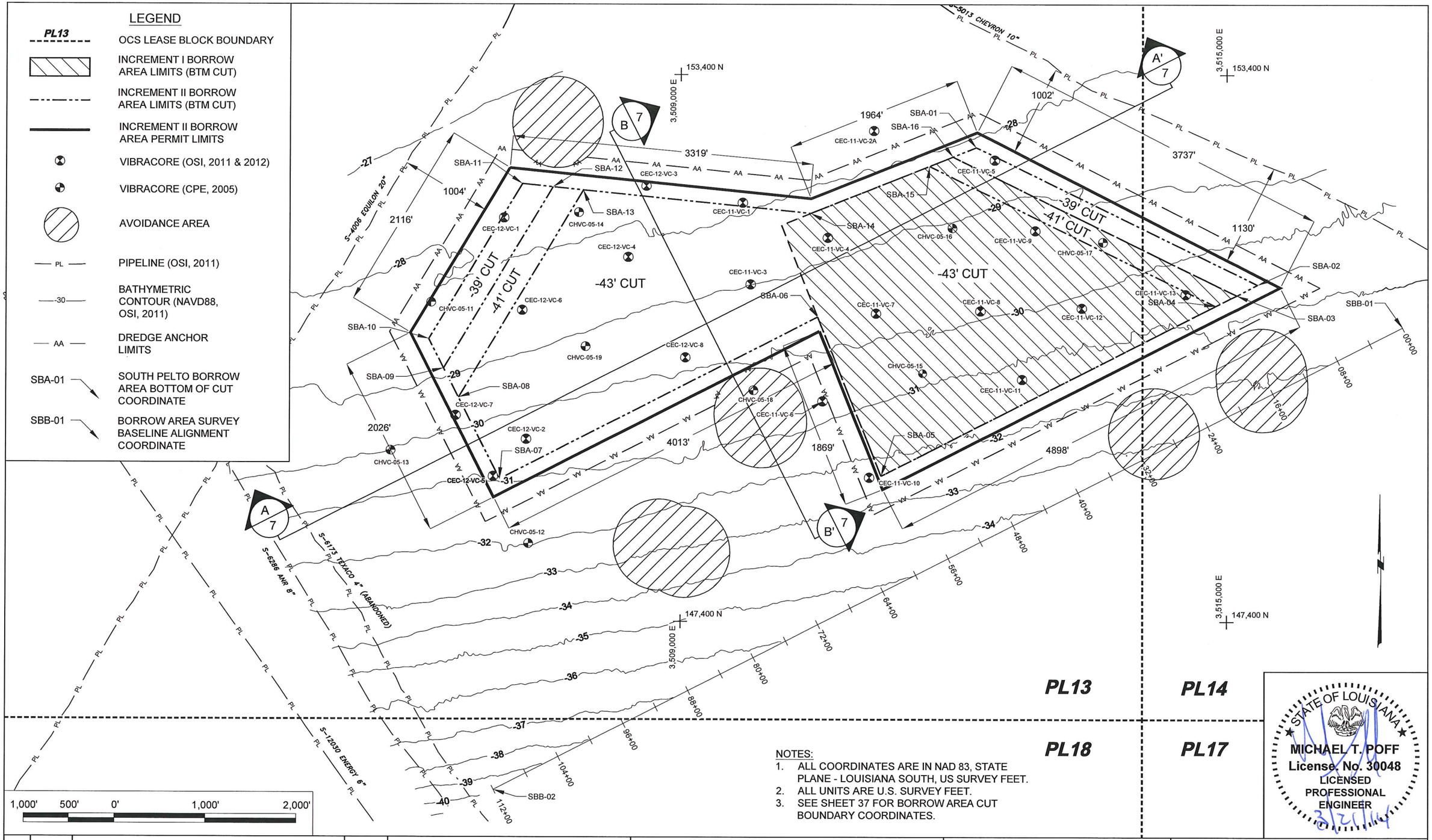
HEADLAND RESTORATION AREA OVERVIEW

DATE: MARCH 2014

SHEET 5 OF 40

LEGEND

- PL13 — OCS LEASE BLOCK BOUNDARY
- INCREMENT I BORROW AREA LIMITS (BTM CUT)
- INCREMENT II BORROW AREA LIMITS (BTM CUT)
- INCREMENT II BORROW AREA PERMIT LIMITS
- VIBRACORE (OSI, 2011 & 2012)
- VIBRACORE (CPE, 2005)
- AVOIDANCE AREA
- PL — PIPELINE (OSI, 2011)
- -30 — BATHYMETRIC CONTOUR (NAVD88, OSI, 2011)
- AA — DREDGE ANCHOR LIMITS
- SBA-01 — SOUTH PELTO BORROW AREA BOTTOM OF CUT COORDINATE
- SBB-01 — BORROW AREA SURVEY BASELINE ALIGNMENT COORDINATE



1,000' 500' 0' 1,000' 2,000'

NOTES:
1. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH, US SURVEY FEET.
2. ALL UNITS ARE U.S. SURVEY FEET.
3. SEE SHEET 37 FOR BORROW AREA CUT BOUNDARY COORDINATES.

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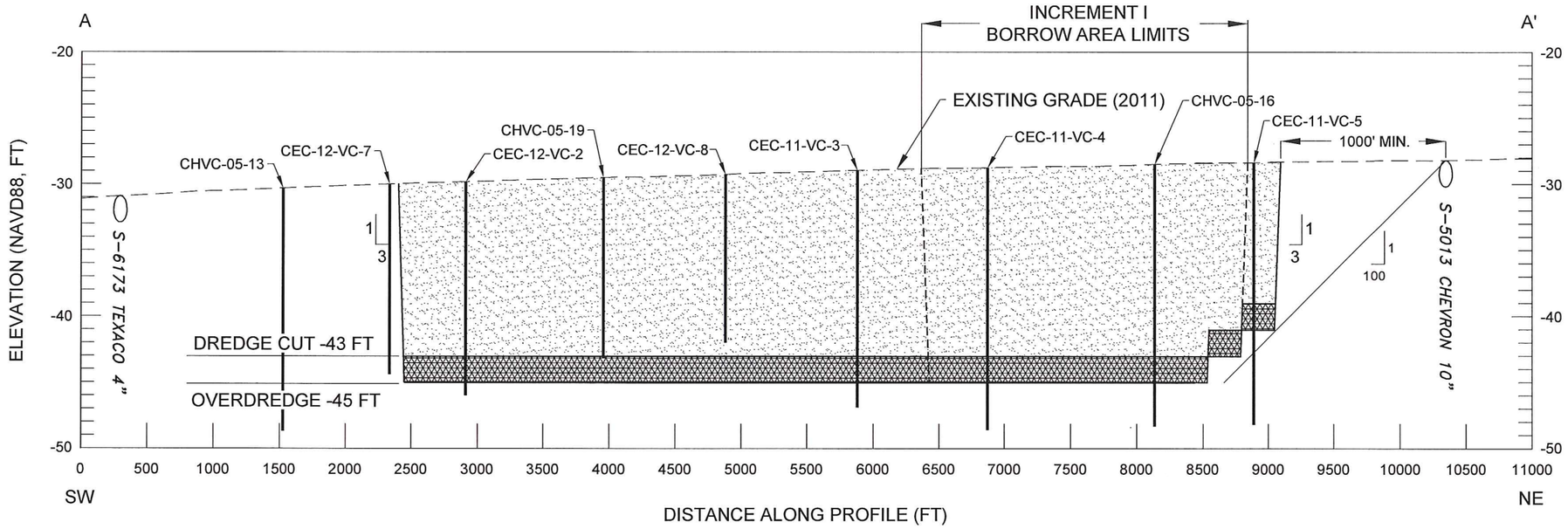
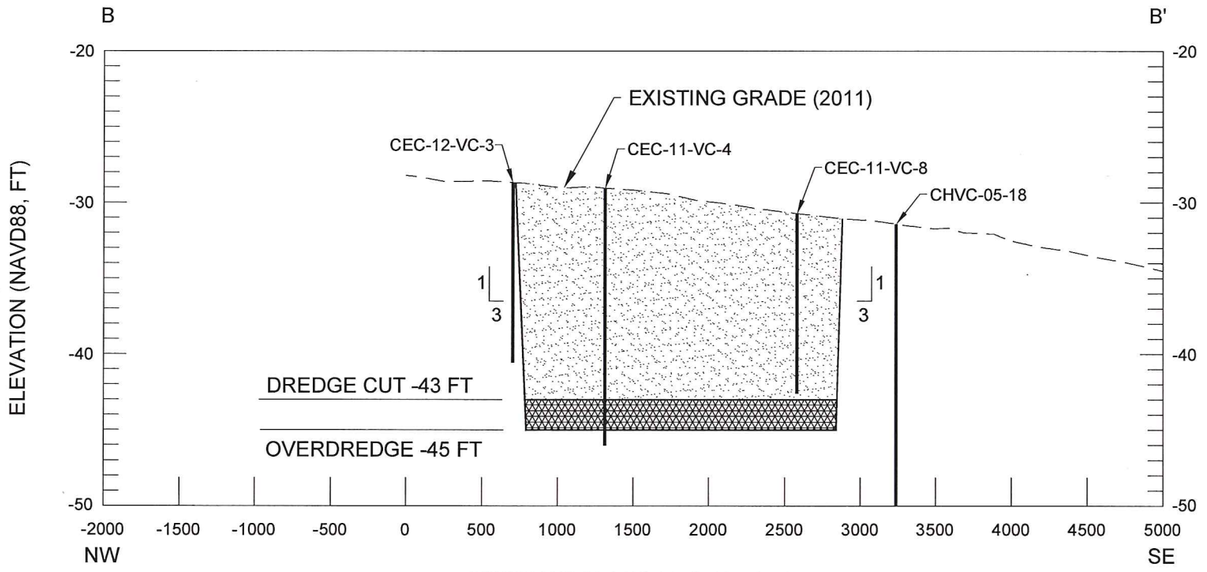
SOUTH PELTO
BORROW AREA PLAN VIEW

DATE: MARCH 2014

SHEET 6 OF 40





LEGEND:

- DREDGE CUT
- OVERDREDGE TOLERANCE
- CHVC-05-13 (CPE VIBRACORE, 2005)
- CEC-11-VC-3 (OSI VIBRACORE, 2011)
- CEC-12-VC-2 (OSI VIBRACORE, 2012)
- S-5013 PIPELINES (NOT TO SCALE)
- EXISTING GRADE (2011)

NOTES:
1. PIPELINE DATA FROM OCEAN SURVEY, INC. (OSI), 2011.
2. BATHYMETRIC SURVEY CONDUCTED BY OSI, 2011.
3. ELEVATIONS HEREON ARE REFERENCED TO NORTH AMERICAN VERITCAL DATUM 1988 (NAVD88)
4. VIBRACORE DATA OBTAINED FROM OSI, 2011 & 2012, AND COASTAL PLANNING & ENGINEERING (CPE), 2005.

SCALE
H: 1" = 1000'
V: 1" = 10'

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

SOUTH PELTO BORROW AREA DESIGN SECTIONS

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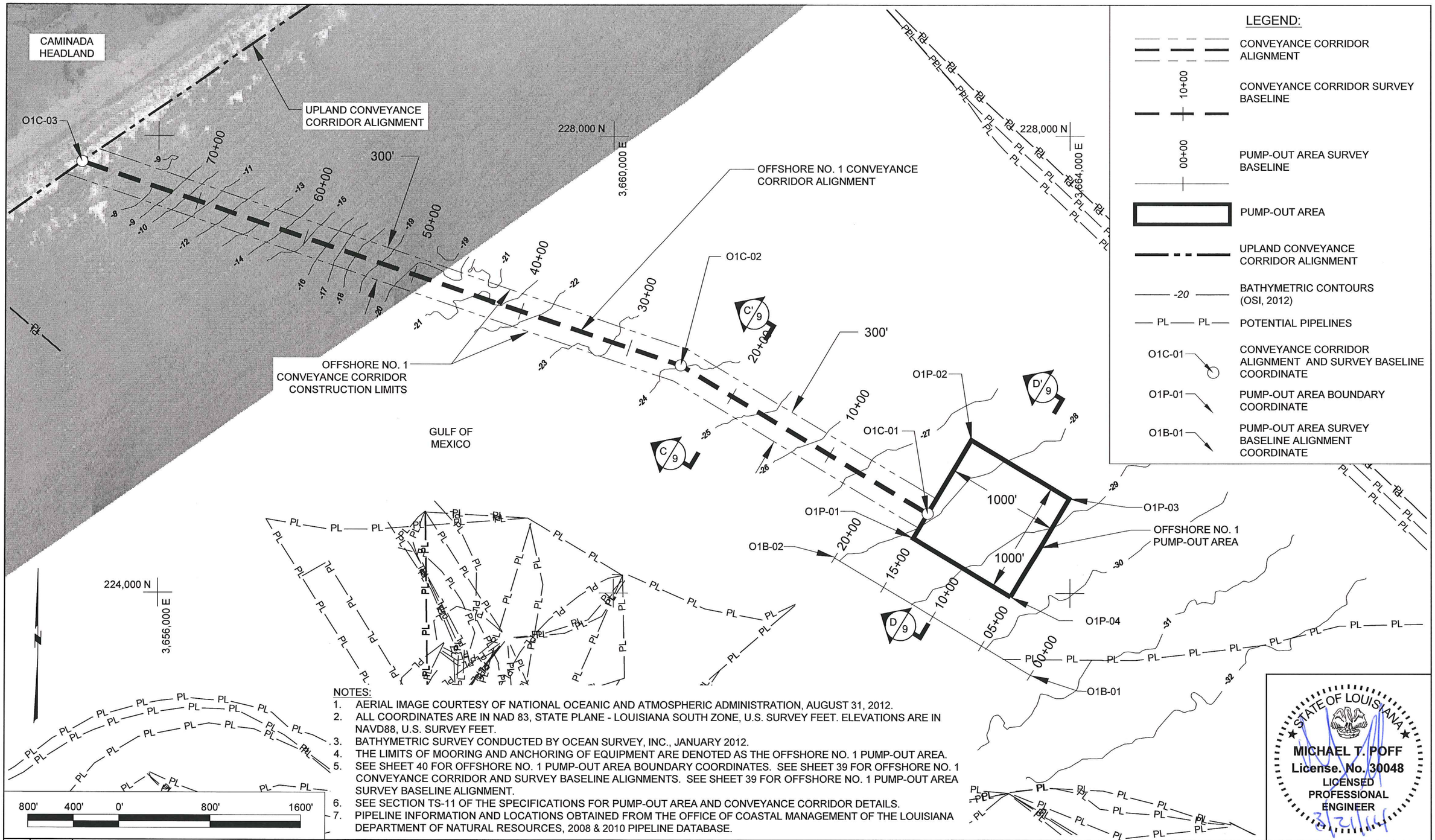

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2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, U.S. SURVEY FEET. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
3. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC., JANUARY 2012.
4. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 1 PUMP-OUT AREA.
5. SEE SHEET 40 FOR OFFSHORE NO. 1 PUMP-OUT AREA BOUNDARY COORDINATES. SEE SHEET 39 FOR OFFSHORE NO. 1 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS. SEE SHEET 39 FOR OFFSHORE NO. 1 PUMP-OUT AREA SURVEY BASELINE ALIGNMENT.
6. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
PH: (225) 768-1982
FAX: (225) 769-3596
5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

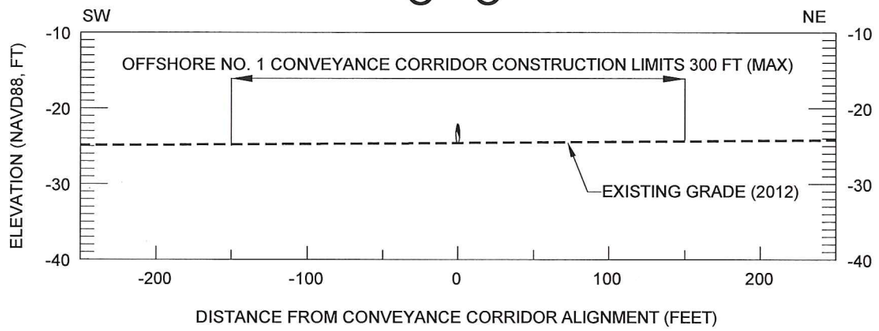
OPTIONAL OFFSHORE NO. 1 PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

DATE: MARCH 2014

SHEET 8 OF 40

SCALE:
H: 1" = 100'
V: 1" = 20'

C - C'



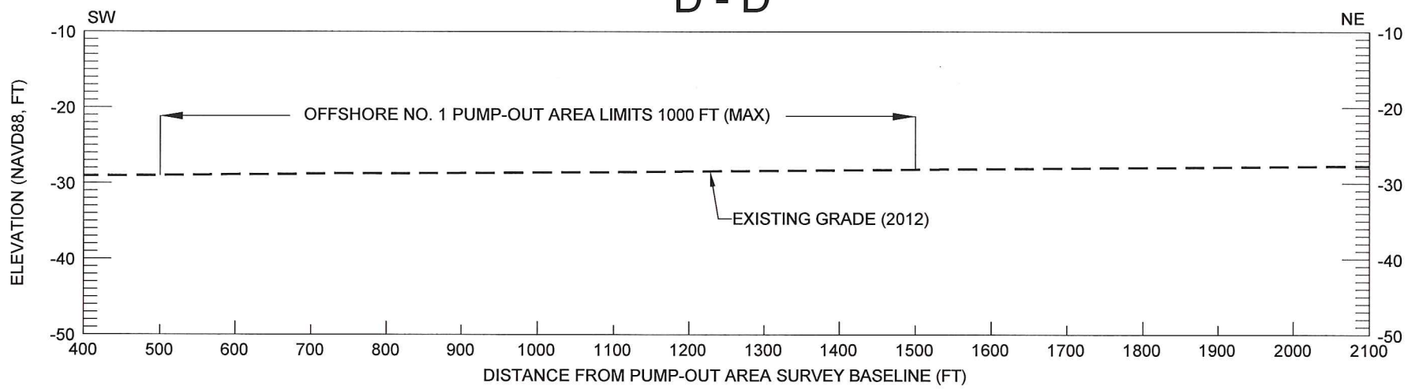
LEGEND:

- – – – – EXISTING GRADE (OSI, 2012)
- SUBMERGED SEDIMENT PIPELINE

NOTES:
1. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC. (OSI), JANUARY 2012.
2. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 1 PUMP-OUT AREA.
3. MEAN HIGH WATER ELEVATION = +1.70 FT NAVD88, MEAN LOW WATER ELEVATION = +0.66 NAVD88.
4. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
5. THERE SHALL BE NO EXCAVATION OF IN-SITU SEDIMENTS FROM THIS AREA FOR EQUIPMENT ACCESS. NO BOTTOM DUMPING FROM HOPPER DREDGES OR SCOWS AND RE-SUSPENSION OF SEDIMENT BY CUTTERHEAD DREDGE WILL BE ALLOWED FOR BEACH AND DUNE CONSTRUCTION.

SCALE:
H: 1" = 200'
V: 1" = 20'

D - D'



STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
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3/21/14

REV.	DATE	DESCRIPTION	BY

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
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DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

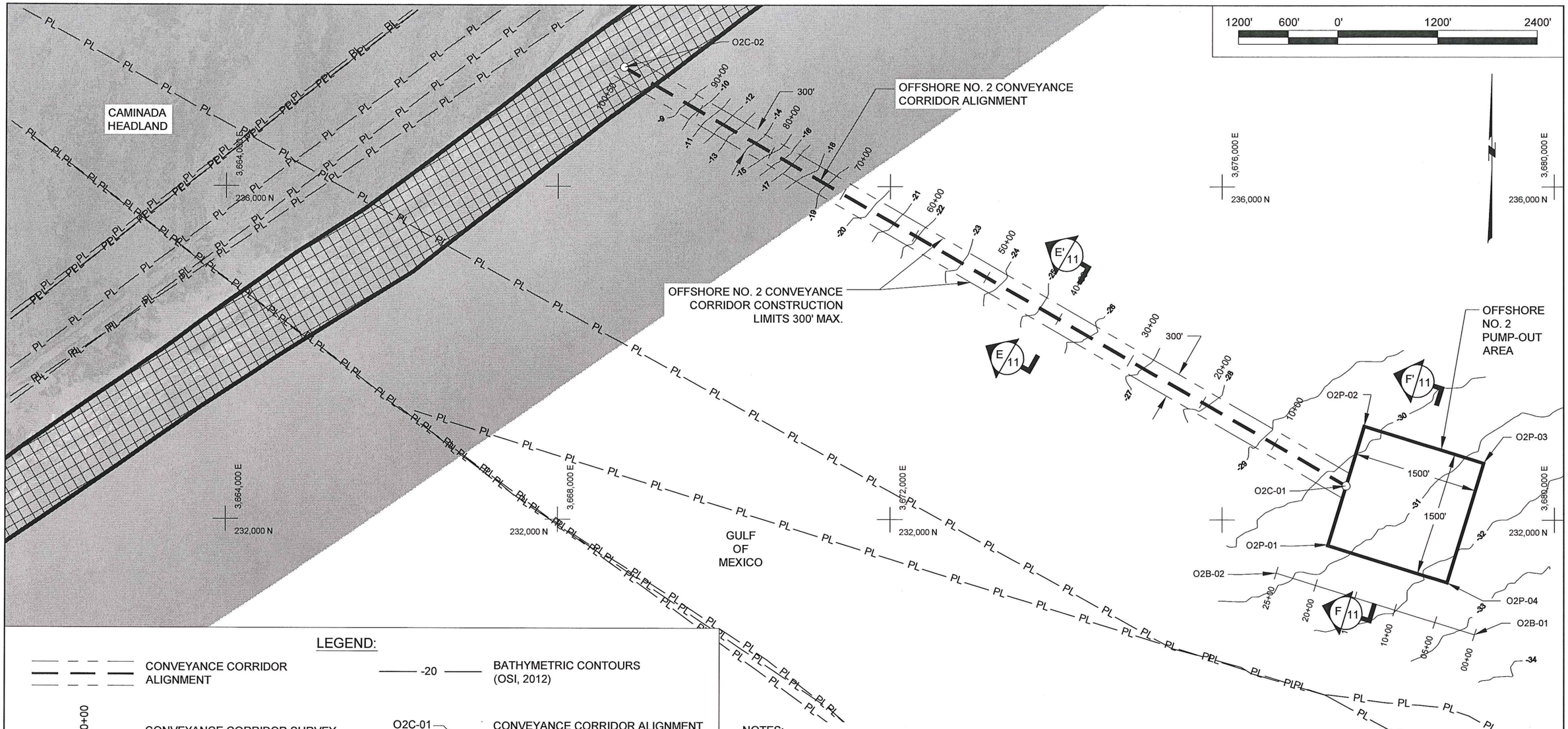
STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL OFFSHORE NO. 1 PUMP-OUT AREA & CONVEYANCE CORRIDOR TYPICAL SECTIONS

DATE: MARCH 2014



LEGEND:

- CONVEYANCE CORRIDOR ALIGNMENT
- 10+00 — CONVEYANCE CORRIDOR SURVEY BASELINE
- 00+00 — PUMP-OUT AREA SURVEY BASELINE
- PUMP-OUT AREA
- PL — PL — POTENTIAL PIPELINE
- -20 — BATHYMETRIC CONTOURS (OSI, 2012)
- O2C-01 — CONVEYANCE CORRIDOR ALIGNMENT AND SURVEY BASELINE COORDINATE
- O2P-01 — PUMP-OUT AREA BOUNDARY COORDINATE
- O2B-01 — PUMP-OUT AREA SURVEY BASELINE ALIGNMENT COORDINATE
- BEACH / DUNE FILL

NOTES:

1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, US SURVEY FEET. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
3. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC. (OSI), JANUARY 2012.
4. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 2 PUMP-OUT AREA.
5. SEE SHEET 40 FOR OFFSHORE NO. 2 PUMP-OUT AREA BOUNDARY COORDINATES. SEE SHEET 39 FOR OFFSHORE NO. 2 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS. SEE SHEET 39 FOR OFFSHORE NO. 2 PUMP-OUT AREA SURVEY BASELINE ALIGNMENT.
6. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

STATE OF LOUISIANA
MICHAEL T. POFF
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3/31/14

REV.	DATE	DESCRIPTION	BY

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL OFFSHORE NO. 2 PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

DATE: MARCH 2014

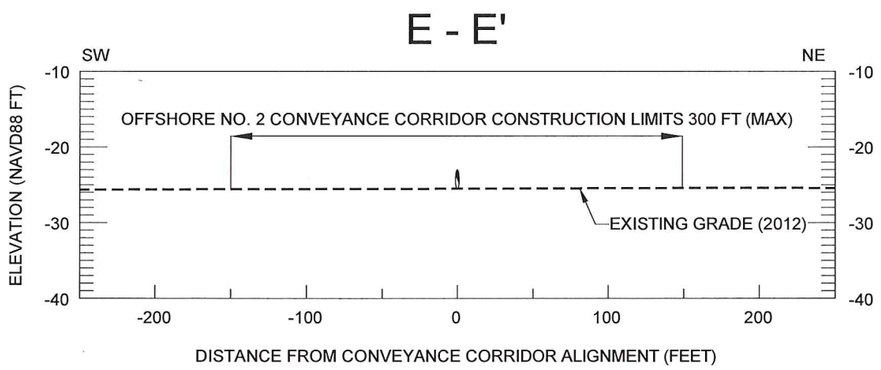
SHEET 10 OF 40

SCALE:
H: 1" = 100'
V: 1" = 20'

LEGEND:

EXISTING GRADE (OSI, 2012)

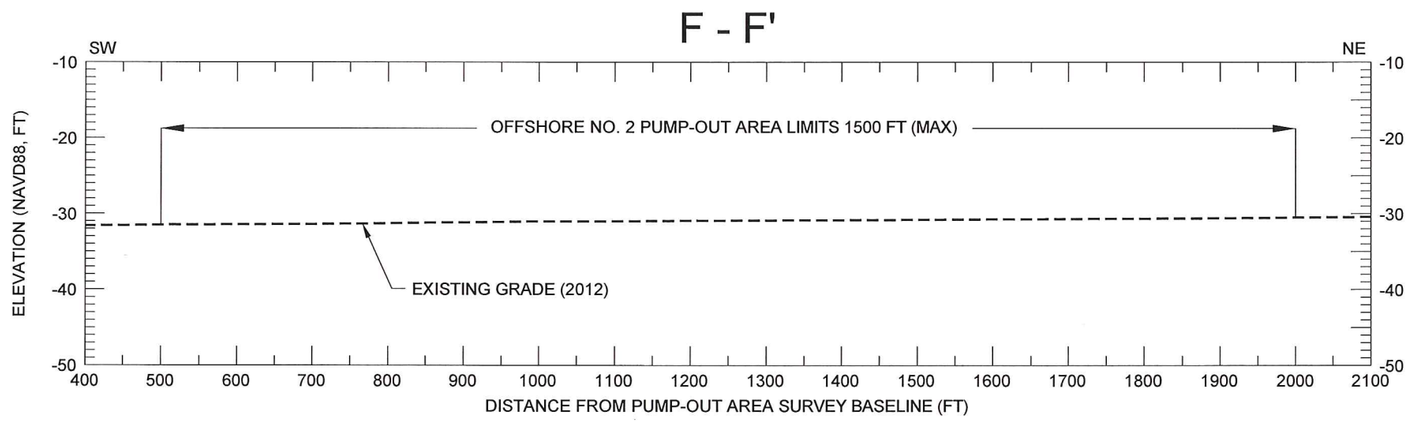
SUBMERGED SEDIMENT PIPELINE



NOTES:

1. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC. (OSI), JANUARY 2012.
2. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 2 PUMP-OUT AREA.
3. MEAN HIGH WATER ELEVATION = +1.70 FT NAVD88, MEAN LOW WATER ELEVATION = +0.66 NAVD88.
4. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
5. THERE SHALL BE NO EXCAVATION OF IN-SITU SEDIMENTS FROM THIS AREA FOR EQUIPMENT ACCESS. NO BOTTOM DUMPING FROM HOPPER DREDGES OR SCOWS AND RE-SUSPENSION OF SEDIMENT BY CUTTERHEAD DREDGE WILL BE ALLOWED FOR BEACH AND DUNE CONSTRUCTION.

SCALE:
H: 1" = 200'
V: 1" = 20'



STATE OF LOUISIANA
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450 LAUREL STREET
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DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

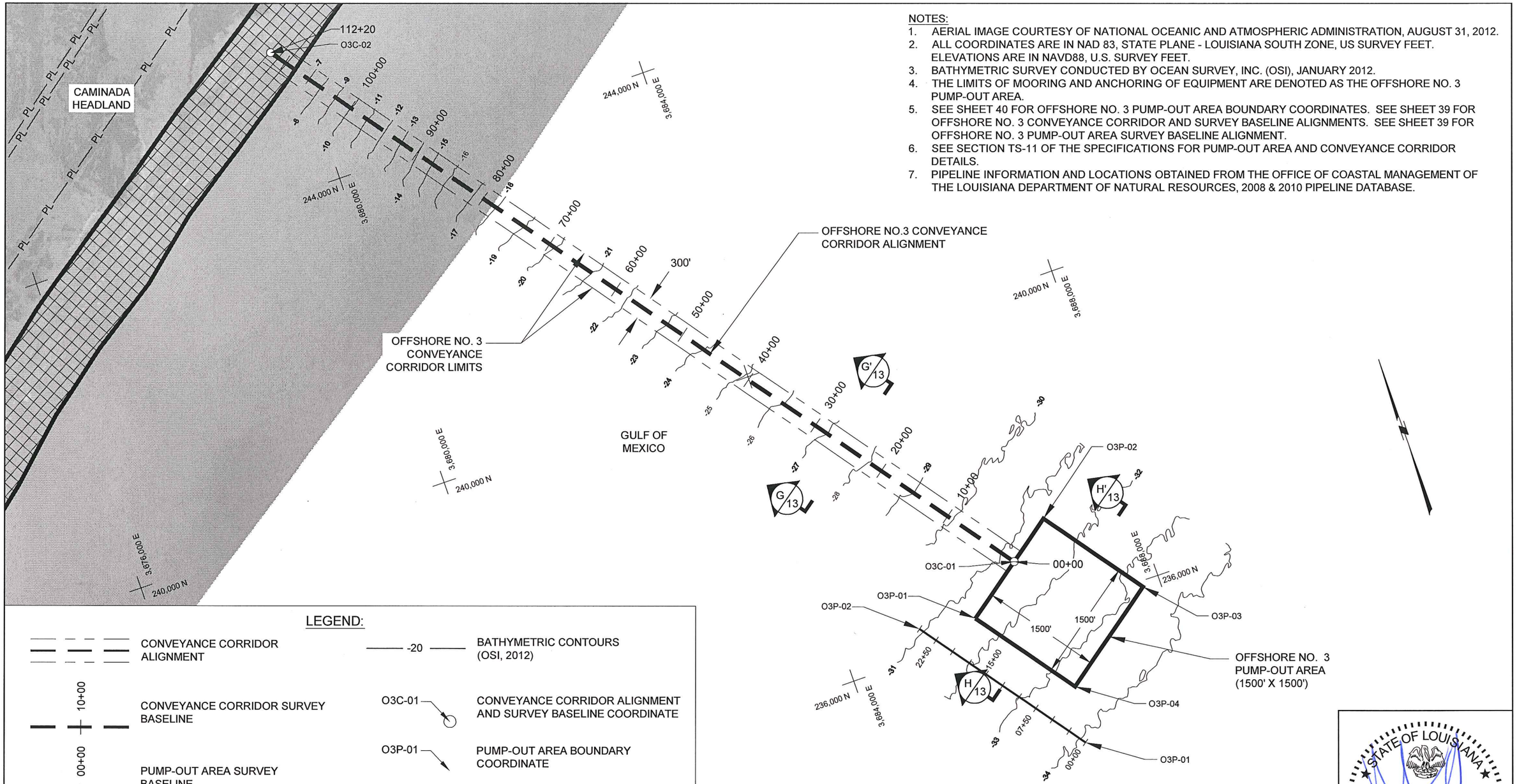
OPTIONAL OFFSHORE NO. 2 PUMP-OUT AREA & CONVEYANCE CORRIDOR TYPICAL SECTIONS

DATE: MARCH 2014

SHEET 11 OF 40

NOTES:

1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, US SURVEY FEET. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
3. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC. (OSI), JANUARY 2012.
4. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 3 PUMP-OUT AREA.
5. SEE SHEET 40 FOR OFFSHORE NO. 3 PUMP-OUT AREA BOUNDARY COORDINATES. SEE SHEET 39 FOR OFFSHORE NO. 3 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS. SEE SHEET 39 FOR OFFSHORE NO. 3 PUMP-OUT AREA SURVEY BASELINE ALIGNMENT.
6. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.



LEGEND:

- CONVEYANCE CORRIDOR ALIGNMENT
- 10+00 — CONVEYANCE CORRIDOR SURVEY BASELINE
- 00+00 — PUMP-OUT AREA SURVEY BASELINE
- PUMP-OUT AREA
- PL — PL — POTENTIAL PIPELINE
- -20 — BATHYMETRIC CONTOURS (OSI, 2012)
- O3C-01 — CONVEYANCE CORRIDOR ALIGNMENT AND SURVEY BASELINE COORDINATE
- O3P-01 — PUMP-OUT AREA BOUNDARY COORDINATE
- O3B-01 — PUMP-OUT AREA SURVEY BASELINE ALIGNMENT COORDINATE
- BEACH / DUNE FILL

1200' 600' 0' 1200' 2400'

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/27/14

REV.	DATE	DESCRIPTION	BY

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450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL OFFSHORE NO. 3 PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

DATE: MARCH 2014

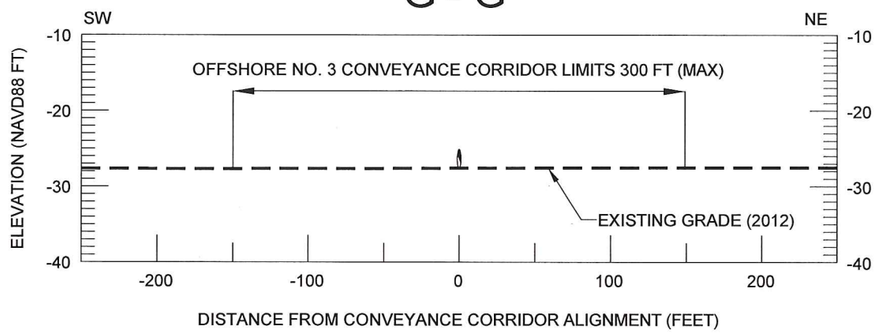
SCALE:
H: 1" = 100'
V: 1" = 20'

LEGEND:

EXISTING GRADE (OSI, 2012)

SUBMERGED SEDIMENT PIPELINE

G - G'

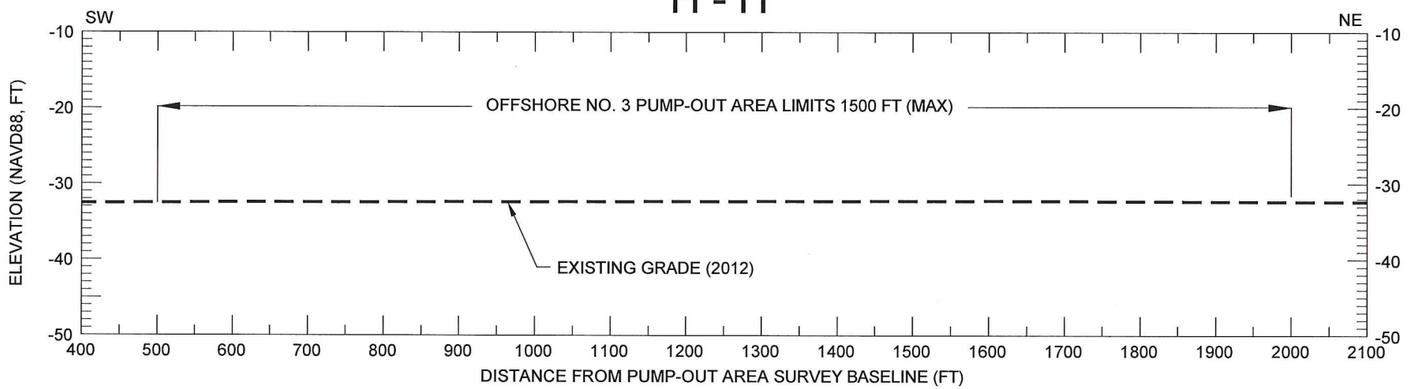


NOTES:

1. BATHYMETRIC SURVEY CONDUCTED BY OCEAN SURVEY, INC. (OSI), JANUARY 2012.
2. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE OFFSHORE NO. 3 PUMP-OUT AREA.
3. MEAN HIGH WATER ELEVATION = +1.70 FT NAVD88, MEAN LOW WATER ELEVATION = +0.66 NAVD88.
4. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR PUMP-OUT AREA AND CONVEYANCE CORRIDOR DETAILS.
5. THERE SHALL BE NO EXCAVATION OF IN-SITU SEDIMENTS FROM THIS AREA FOR EQUIPMENT ACCESS. NO BOTTOM DUMPING FROM HOPPER DREDGES OR SCOWS AND RE-SUSPENSION OF SEDIMENT BY CUTTERHEAD DREDGE WILL BE ALLOWED FOR BEACH AND DUNE CONSTRUCTION.

SCALE:
H: 1" = 200'
V: 1" = 20'

H - H'



STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
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5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

NRDA CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL OFFSHORE NO. 3 PUMP-OUT AREA & CONVEYANCE CORRIDOR TYPICAL SECTIONS

DATE: MARCH 2014

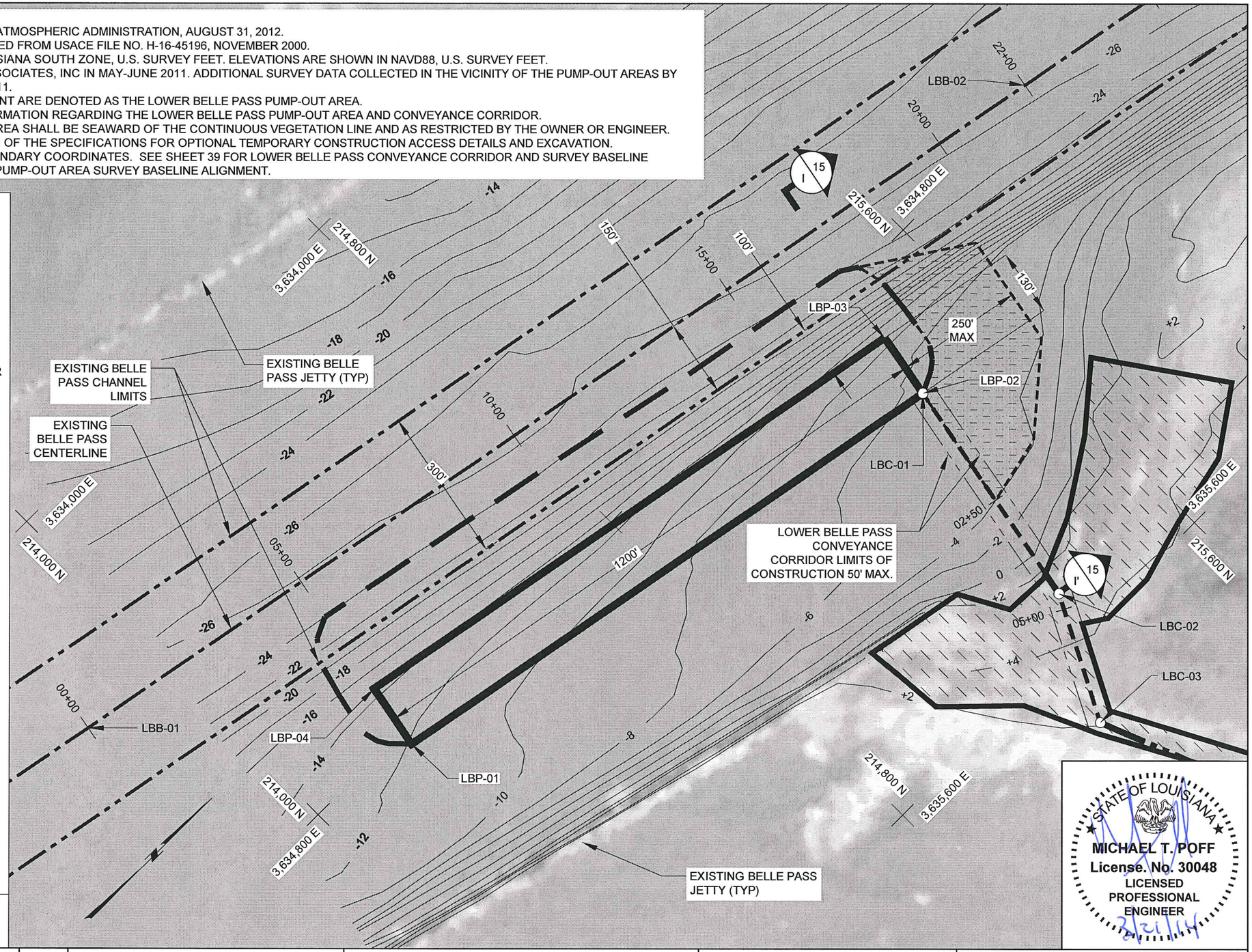
NOTES:

1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. BELLE PASS CHANNEL LIMITS AND CENTERLINE OBTAINED FROM USACE FILE NO. H-16-45196, NOVEMBER 2000.
3. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, U.S. SURVEY FEET. ELEVATIONS ARE SHOWN IN NAVD88, U.S. SURVEY FEET.
4. BATHYMETRIC SURVEY CONDUCTED BY PICCIOLA & ASSOCIATES, INC IN MAY-JUNE 2011. ADDITIONAL SURVEY DATA COLLECTED IN THE VICINITY OF THE PUMP-OUT AREAS BY COASTAL ENGINEERING CONSULTANTS, INC. IN JUNE 2011.
5. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE LOWER BELLE PASS PUMP-OUT AREA.
6. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR INFORMATION REGARDING THE LOWER BELLE PASS PUMP-OUT AREA AND CONVEYANCE CORRIDOR.
7. LIMITS OF THE TEMPORARY CONSTRUCTION ACCESS AREA SHALL BE SEAWARD OF THE CONTINUOUS VEGETATION LINE AND AS RESTRICTED BY THE OWNER OR ENGINEER.
8. SEE GENERAL NOTE 12 ON SHEET 2 AND SECTION TS-12 OF THE SPECIFICATIONS FOR OPTIONAL TEMPORARY CONSTRUCTION ACCESS DETAILS AND EXCAVATION.
9. SEE SHEET 40 FOR LOWER BELLE PUMP-OUT AREA BOUNDARY COORDINATES. SEE SHEET 39 FOR LOWER BELLE PASS CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS. SEE SHEET 39 FOR LOWER BELLE PASS PUMP-OUT AREA SURVEY BASELINE ALIGNMENT.

LEGEND:

- EXISTING BELLE PASS AUTHORIZED CHANNEL
- -20 — 2011 BATHYMETRIC CONTOURS
- CONVEYANCE CORRIDOR ALIGNMENT
- UPLAND CONVEYANCE CORRIDOR
- PUMP-OUT AREA
- TEMPORARY ACCESS AND STAGING AREA
- APPROX. LIMITS OF OPTIONAL EXCAVATION FOR TEMPORARY CONSTRUCTION ACCESS
- APPROX. LIMITS OF PUMP-OUT AREA EXCAVATION
- 00+00 — PUMP-OUT AREA SURVEY BASELINE
- 02+50 — CONVEYANCE CORRIDOR SURVEY BASELINE
- LBB-01 — PUMP-OUT AREA SURVEY BASELINE ALIGNMENT COORDINATE
- LBP-01 — PUMP-OUT AREA BOUNDARY COORDINATE
- LBC-01 — CONVEYANCE CORRIDOR ALIGNMENT AND SURVEY BASELINE COORDINATE

200' 100' 0' 200' 400'



STATE OF LOUISIANA
MICHAEL T. POFF
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3/21/14

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL LOWER BELLE PASS PUMP-OUT AREA & CONVEYANCE CORRIDOR PLAN VIEW

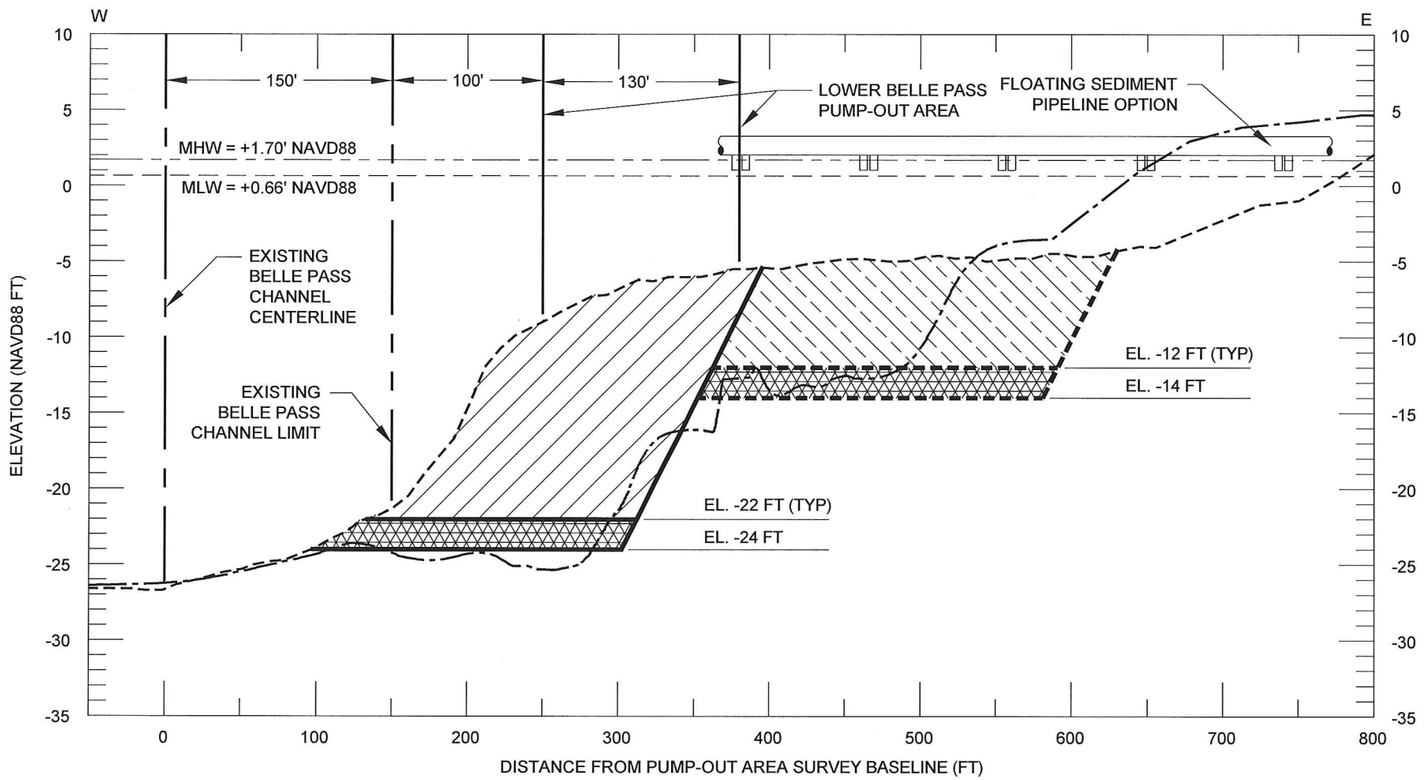
DATE: MARCH 2014

SCALE:
H: 1" = 100'
V: 1" = 10'

LEGEND:

- EXISTING GRADE (2011)
- EXISTING GRADE (2013)
- PUMP-OUT AREA DESIGN
- PUMP-OUT AREA EXCAVATION
- OPTIONAL TEMPORARY CONSTRUCTION ACCESS DESIGN
- OPTIONAL EXCAVATION FOR TEMPORARY CONSTRUCTION ACCESS
- ALLOWABLE OVERDREDGE

I - I'



NOTES:
1. BELLE PASS CHANNEL LIMITS AND CENTERLINE OBTAINED FROM USACE FILE NO. H-16-45196, NOVEMBER 2000.
2. BATHYMETRIC SURVEY CONDUCTED BY PICCIOLA & ASSOCIATES, INC. AND COASTAL ENGINEERING CONSULTANTS, INC. MAY-JUNE, 2011.
3. BATHYMETRIC SURVEY CONDUCTED BY T. BAKER SMITH, INC. AUGUST 2013. LOWER BELLE PASS PUMP-OUT AREA EXCAVATED AS PART OF CAMINADA HEADLAND BEACH AND DUNE RESTORATION (BA-45) INCREMENT I.
4. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE LOWER BELLE PASS PUMP-OUT AREA.
5. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR INFORMATION REGARDING THE LOWER BELLE PASS PUMP-OUT AREA AND CONVEYANCE CORRIDOR.
6. SEE SECTION TS-12 OF THE SPECIFICATIONS FOR OPTIONAL EXCAVATION FOR TEMPORARY CONSTRUCTION ACCESS AND STAGING DETAILS.

STATE OF LOUISIANA
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2/21/14

REV.	DATE	DESCRIPTION	BY

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

OPTIONAL LOWER BELLE PASS PUMP-OUT AREA & CONVEYANCE CORRIDOR TYPICAL SECTION

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DATE: MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

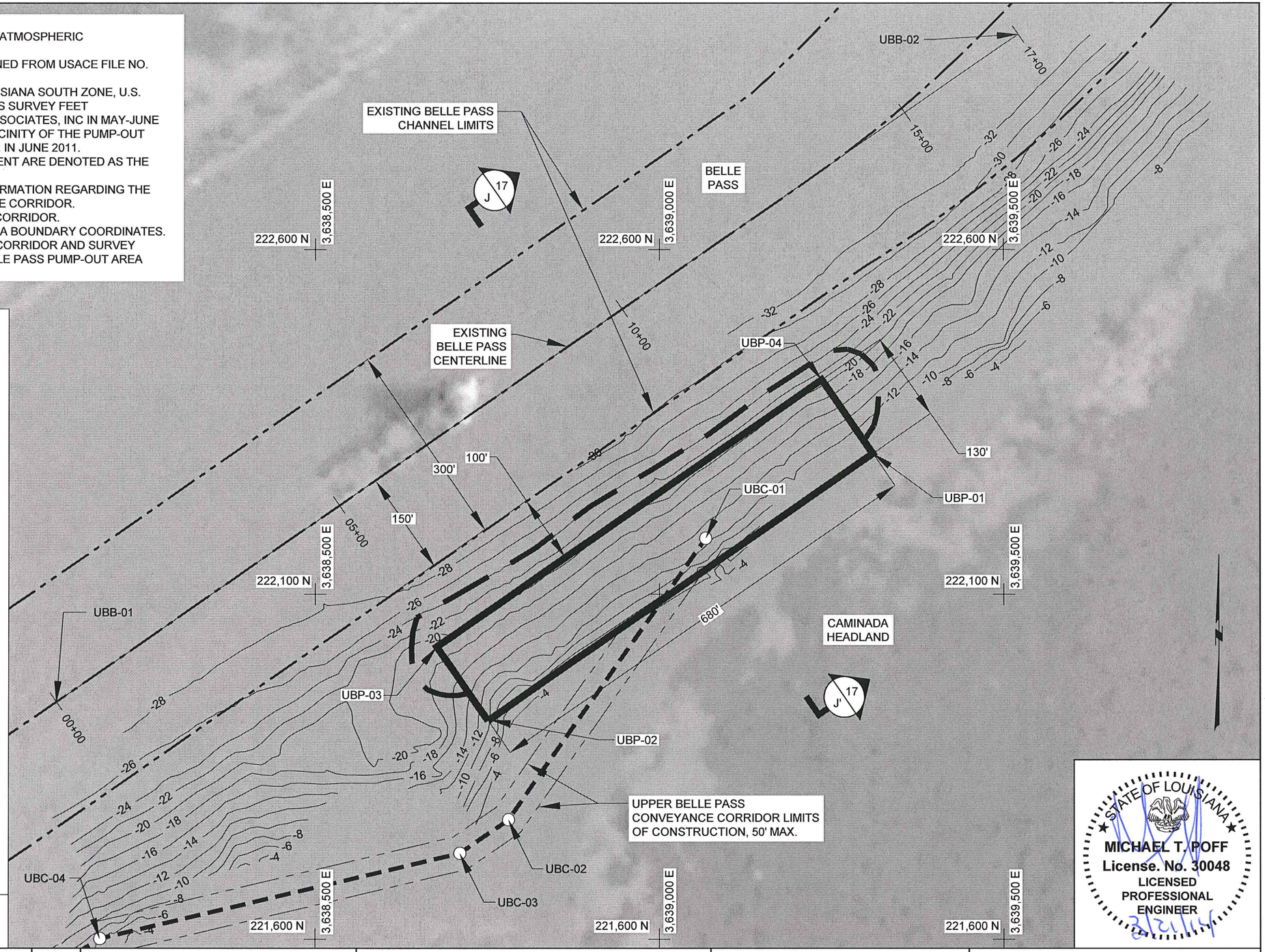
NOTES:

1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. BELLE PASS CHANNEL LIMITS AND CENTERLINE OBTAINED FROM USACE FILE NO. H-16-45196, NOVEMBER 2000.
3. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, U.S. SURVEY FEET. ELEVATIONS ARE SHOWN IN NAVD 88, US SURVEY FEET
4. BATHYMETRIC SURVEY CONDUCTED BY PICCIOLA & ASSOCIATES, INC IN MAY-JUNE 2011. ADDITIONAL SURVEY DATA COLLECTED IN THE VICINITY OF THE PUMP-OUT AREAS BY COASTAL ENGINEERING CONSULTANTS, INC. IN JUNE 2011.
5. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE UPPER BELLE PASS PUMP-OUT AREA.
6. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR INFORMATION REGARDING THE UPPER BELLE PASS PUMP-OUT AREA AND CONVEYANCE CORRIDOR.
7. SEE SHEET 18 FOR UPPER BELLE PASS CONVEYANCE CORRIDOR.
8. SEE SHEET 40 FOR UPPER BELLE PASS PUMP-OUT AREA BOUNDARY COORDINATES. SEE SHEET 38 FOR UPPER BELLE PASS CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT. SEE SHEET 38 FOR UPPER BELLE PASS PUMP-OUT AREA SURVEY BASELINE ALIGNMENT.

LEGEND:

- EXISTING BELLE PASS AUTHORIZED CHANNEL
- -20 — 2011 BATHYMETRIC CONTOURS
- CONVEYANCE CORRIDOR ALIGNMENT
- PUMP-OUT AREA
- APPROX. LIMITS OF PUMP-OUT AREA EXCAVATION
- 00+00 — PUMP-OUT AREA SURVEY BASELINE
- 02+50 — CONVEYANCE CORRIDOR SURVEY BASELINE
- UBB-01 — PUMP-OUT AREA SURVEY BASELINE ALIGNMENT COORDINATE
- UBP-01 — PUMP-OUT AREA BOUNDARY COORDINATE
- UBC-01 — CONVEYANCE CORRIDOR ALIGNMENT AND SURVEY BASELINE COORDINATE

150' 75' 0' 150' 300'



STATE OF LOUISIANA
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3/24/14

REV.	DATE	DESCRIPTION	BY

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450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL UPPER BELLE PASS PUMP-OUT AREA PLAN VIEW

DATE: MARCH 2014

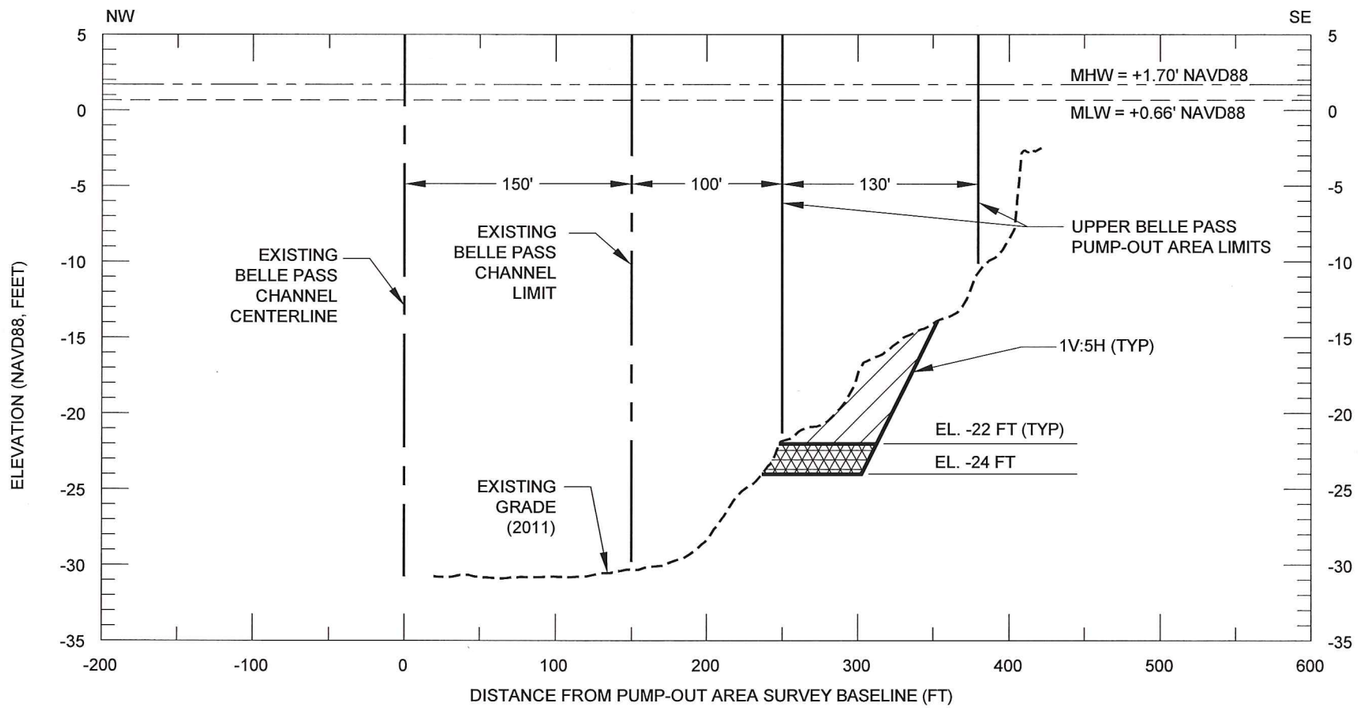
SHEET 16 OF 40

SCALE:
H: 1" = 100'
V: 1" = 10'

LEGEND:

- PUMP-OUT AREA EXCAVATION
- ALLOWABLE OVERDREDGE
- EXISTING GRADE (2011)
- PUMP-OUT AREA DESIGN

J - J'



NOTES:
1. BELLE PASS CHANNEL LIMITS AND CENTERLINE OBTAINED FROM USACE FILE NO. H-16-45196, NOVEMBER 2000.
2. BATHYMETRIC SURVEY CONDUCTED BY PICCIOLA & ASSOCIATES, INC. AND COASTAL ENGINEERING CONSULTANTS, INC. MAY-JUNE, 2011.
3. THE LIMITS OF MOORING AND ANCHORING OF EQUIPMENT ARE DENOTED AS THE UPPER BELLE PASS PUMP-OUT AREA.
4. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR INFORMATION REGARDING THE UPPER BELLE PASS PUMP-OUT AREA.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
PH: (225) 768-1982
FAX: (225) 769-3596
5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

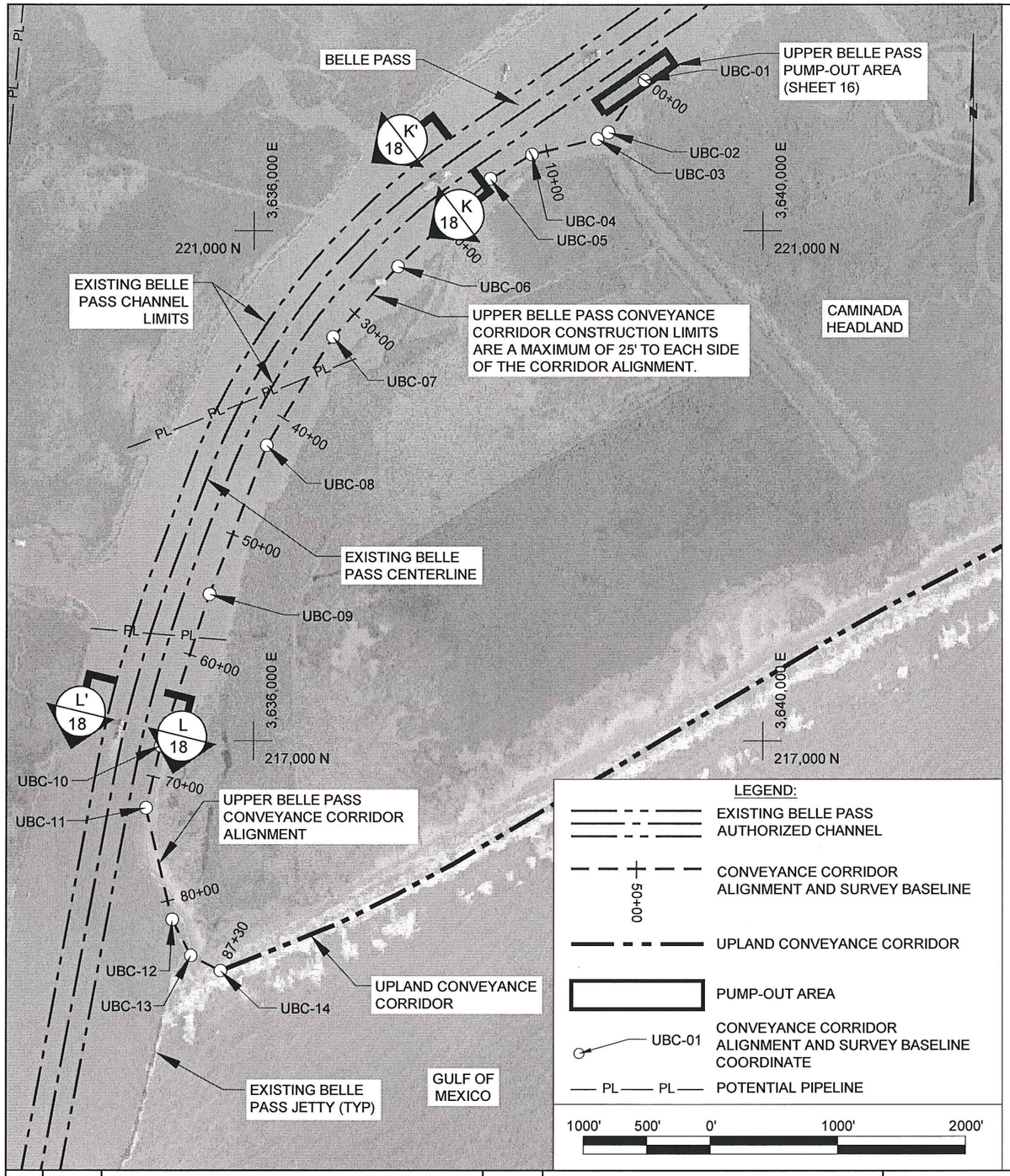
FEDERAL PROJECT NUMBER:

OPTIONAL UPPER BELLE PASS PUMP-OUT AREA TYPICAL SECTION

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

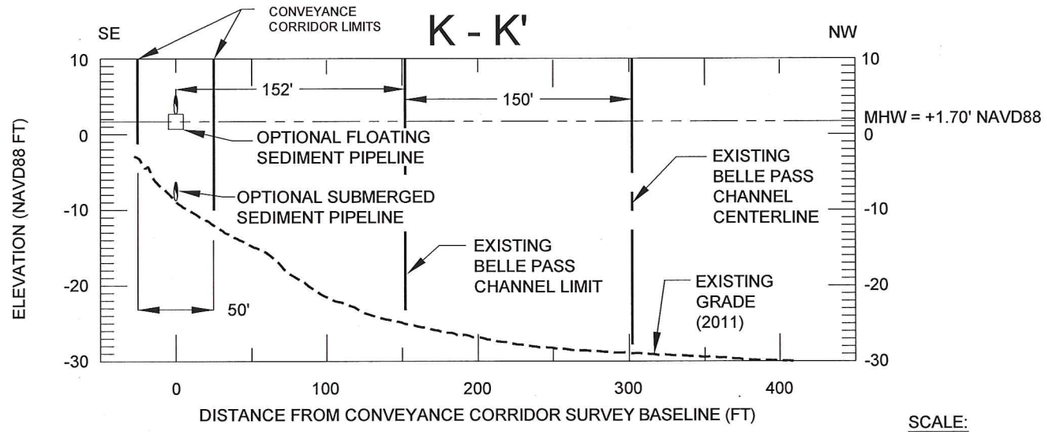
DATE: MARCH 2014

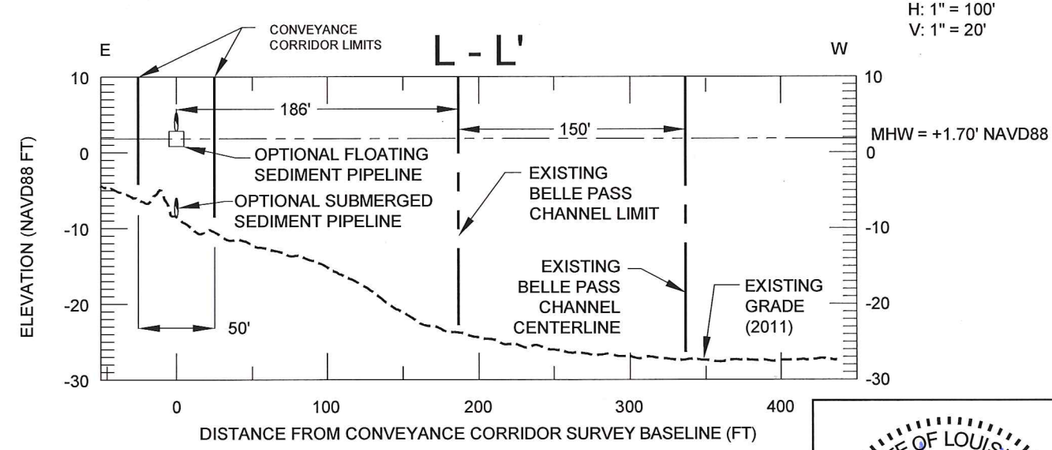
SHEET 17 OF 40



NOTES:

1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, US SURVEY FEET. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
3. SURVEYS CONDUCTED BY PICCIOLA & ASSOCIATES, INC. AND COASTAL ENGINEERING CONSULTANTS, INC. MAY - JUNE 2011.
4. BELLE PASS CHANNEL LIMITS AND CENTERLINE OBTAINED FROM USACE FILE NO. H-16-45196, NOVEMBER 2000.
5. MEAN HIGH WATER ELEVATION = +1.70 FT NAVD88, MEAN LOW WATER ELEVATION = +0.66 NAVD88.
6. SEE SHEET 38 FOR UPPER BELLE PASS CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS.
7. SEE SECTION TS-11 OF THE SPECIFICATIONS FOR INFORMATION REGARDING THE UPPER BELLE PASS CONVEYANCE CORRIDOR.
8. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.





SCALE:
H: 1" = 100'
V: 1" = 20'

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

REV.	DATE	DESCRIPTION	BY

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

NRDA CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

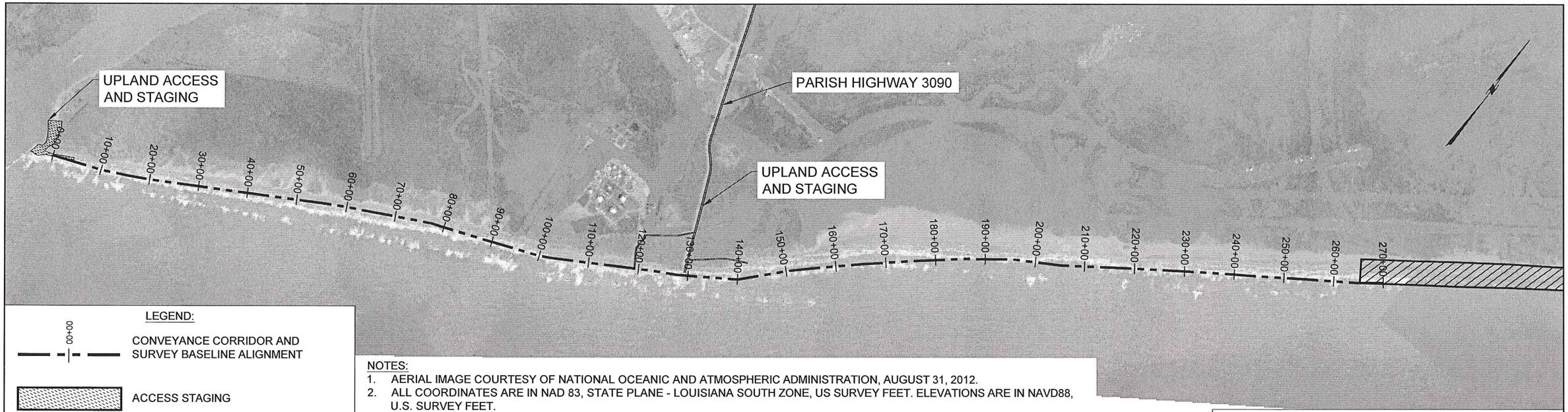
STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL UPPER BELLE PASS CONVEYANCE CORRIDOR PLAN VIEW & TYPICAL SECTIONS

DATE: MARCH 2014



LEGEND:

0+00 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT

ACCESS STAGING

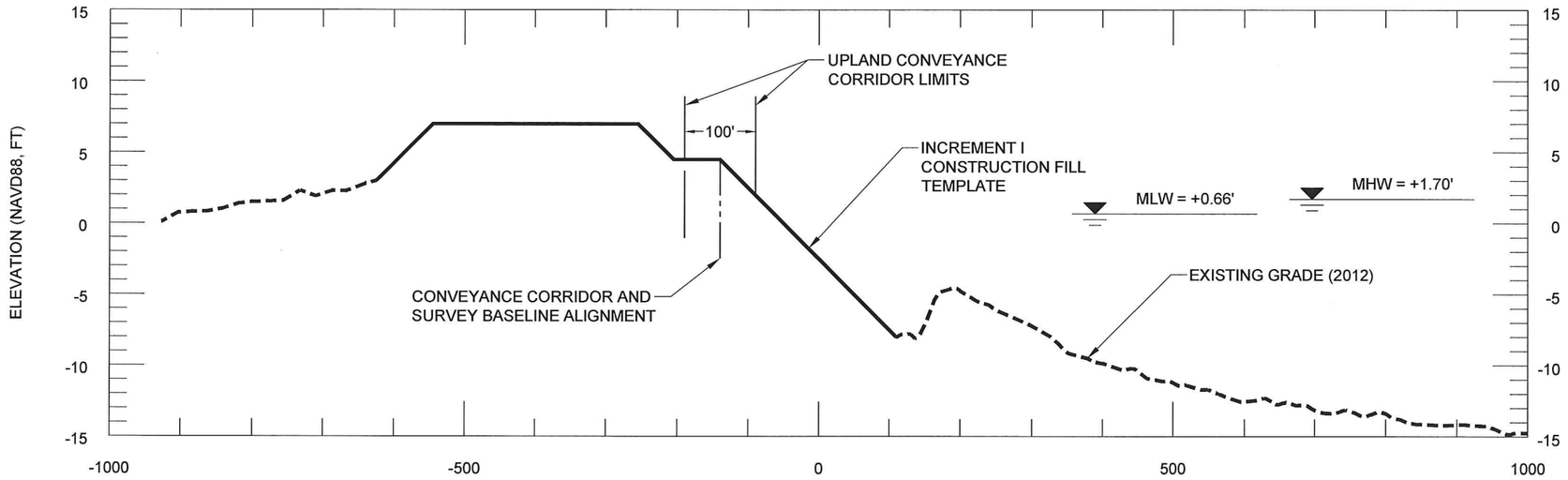
BEACH / DUNE FILL

NOTES:
1. AERIAL IMAGE COURTESY OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE, US SURVEY FEET. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
3. SEE SHEET 38 FOR UPLAND CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENTS.
4. SEE SHEETS 14 AND 21 FOR ADDITIONAL ACCESS AND STAGING INFORMATION.
5. SEE GENERAL NOTE 12 OF SHEET 2 FOR TEMPORARY UPLAND CONSTRUCTION ACCESS RESTORATION.

2000' 1000' 0' 2000' 4000'

SCALE:
H: 1" = 200'
V: 1" = 10'

TYPICAL SECTION



NOTES:
1. SURVEY CONDUCTED BY EMC INC., 2012

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

REV.	DATE	DESCRIPTION	BY

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

OPTIONAL UPLAND CONVEYANCE CORRIDOR PLAN VIEW & TYPICAL SECTION

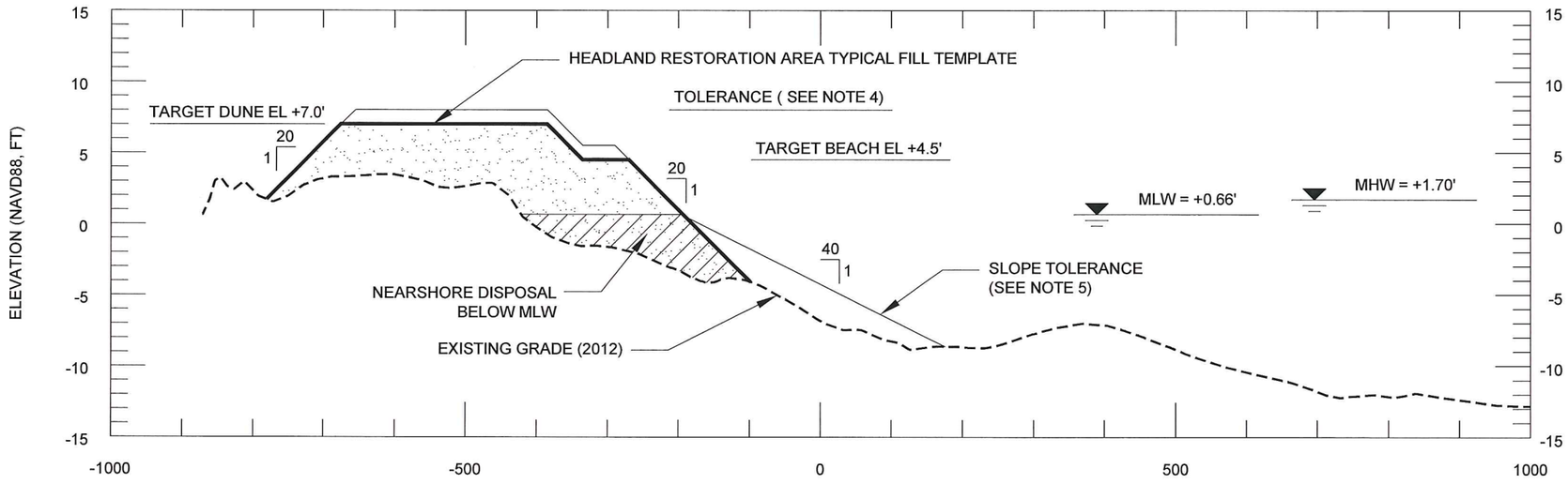
DATE: MARCH 2014

LEGEND:

- BEACH / DUNE FILL
- EXISTING GRADE (2012)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)
- NEARSHORE DISPOSAL BELOW MLW

SCALE:
H: 1" =200'
V: 1" = 10'

TYPICAL SECTION



NOTES:
1. BENEFICIAL USE SEDIMENT FROM THE OPTIONAL UPPER AND LOWER BELLE PASS PUMP-OUT AREAS SHALL BE PLACED BELOW MLW ON THE GULF SIDE AND WITHIN HEADLAND SURVEY BASELINE STATIONS 05+00 AND 15+00 OR WITHIN THE BEACH AND DUNE FILL TEMPLATE.
2. SECTIONS ARE VIEWED AS LOOKING EAST.
3. SURVEY CONDUCTED BY EMC INC., 2012.
4. A PLUS ONE FOOT (+1') TOLERANCE IS INCLUDED TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION/SETTLEMENT OF THE FILL.
5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
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2/24/14

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

PUMP-OUT AREA EXCAVATED MATERIAL PLACEMENT

DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E.	STATE PROJECT NUMBER: BA-143	
		FEDERAL PROJECT NUMBER:	DATE: MARCH 2014
		APPROVED BY: CATHERINE RICKS, P.E.	SHEET 20 OF 40

NOTES:
1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
4. SEE SHEET 14 FOR THE LOWER BELLE PASS ACCESS STAGING AREA.

LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- BASELINE (00+00)
- INCREMENT I BEACH / DUNE FILL
- TEMPORARY UPLAND CONSTRUCTION ACCESS

3,642,000 E, 223,800 N
3,645,200 E, 227,000 N
3,645,200 E, 223,800 N
3,645,200 E, 220,600 N
3,648,400 E, 223,800 N
3,680,800 E, 251,800 N
3,684,000 E, 255,000 N
3,684,000 E, 251,800 N
3,684,000 E, 248,600 N

PARISH HWY 3090

TEMPORARY UPLAND CONSTRUCTION ACCESS

TEMPORARY UPLAND CONSTRUCTION ACCESS

ELMER'S ISLAND WILDLIFE REFUGE ACCESS ROAD

CAMINADA HEADLAND

GULF OF MEXICO

120+00, 140+00, 160+00, 580+00, 600+00, 620+00

800' 400' 0' 800' 1,600'

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

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DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

TEMPORARY CONSTRUCTION UPLAND ACCESS

DATE: MARCH 2014

SHEET 21 OF 40

NOTES:
1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
4. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
5. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
6. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

CAMINADA HEADLAND

LANDWARD LIMIT OF DUNE CREST

LANDWARD LIMIT OF DUNE TOE

SEAWARD LIMIT OF BEACH CREST

SEAWARD LIMIT OF DUNE CREST

MATCHLINE SHEET 23

GULF OF MEXICO

PIPELINES FOR THE LOUISIANA OFFSHORE OIL PORT (LOOP) LANDFALL UNDETERMINED.

DCL-01 DCL-02 DCL-03 DCL-04 DCL-05 DCL-06 DCL-07

DCS-01 DCS-02 DCS-03 DCS-04 DCS-05 DCS-06 DCS-07

BCS-01 BCS-02 BCS-03 BCS-04 BCS-05 BCS-06 BCS-07

SP-01

HFA-10 HFA-11

M 28 M' 28

235,000 N 3,662,000 E

233,000 N 3,660,000 E

231,000 N 3,658,000 E

231,000 N 3,682,000 E

229,000 N 3,660,000 E

229,000 N 3,658,000 E

260+00 280+00 300+00 320+00

500' 250' 0' 500' 1,000'

LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- BASELINE (00+00)
- INCREMENT I BEACH / DUNE FILL
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 BEACH CREST ALIGNMENT COORDINATE
- DCS-01 SEAWARD DUNE CREST ALIGNMENT COORDINATE
- DCL-01 LANDWARD DUNE CREST ALIGNMENT COORDINATE

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
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BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

HEADLAND RESTORATION AREA
PLAN VIEW
STA. 260+00 TO 330+00

DATE: MARCH 2014

SHEET 22 OF 40

NOTES:

1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
4. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
5. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
6. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

CAMINADA HEADLAND

MATCHLINE SHEET 22

MATCHLINE SHEET 24

LANDWARD LIMIT OF DUNE CREST

LANDWARD LIMIT OF DUNE TOE

SEAWARD LIMIT OF BEACH CREST

SEAWARD LIMIT OF DUNE CREST

OFFSHORE NO. 2 CONVEYANCE CORRIDOR

GULF OF MEXICO

DCL-08 DCL-09 DCL-10 DCL-11 DCL-12 DCL-13 DCL-14

DCS-08 DCS-09 DCS-10 DCS-11 DCS-12 DCS-13 DCS-14

BCS-08 BCS-09 BCS-10 BCS-11 BCS-12 BCS-13 BCS-14

SP-02

HFA-12

340+00 360+00 380+00 400+00

3,664,000 E 235,000 N

3,666,000 E 237,000 N

3,668,000 E 239,000 N

233,000 N 3,664,000 E

3,666,000 E 233,000 N

3,668,000 E 235,000 N

LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- 0+00 BASELINE
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 BEACH CREST ALIGNMENT COORDINATE
- DCS-01 SEAWARD DUNE CREST ALIGNMENT COORDINATE
- DCL-01 LANDWARD DUNE CREST ALIGNMENT COORDINATE

500' 250' 0' 500' 1,000'

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

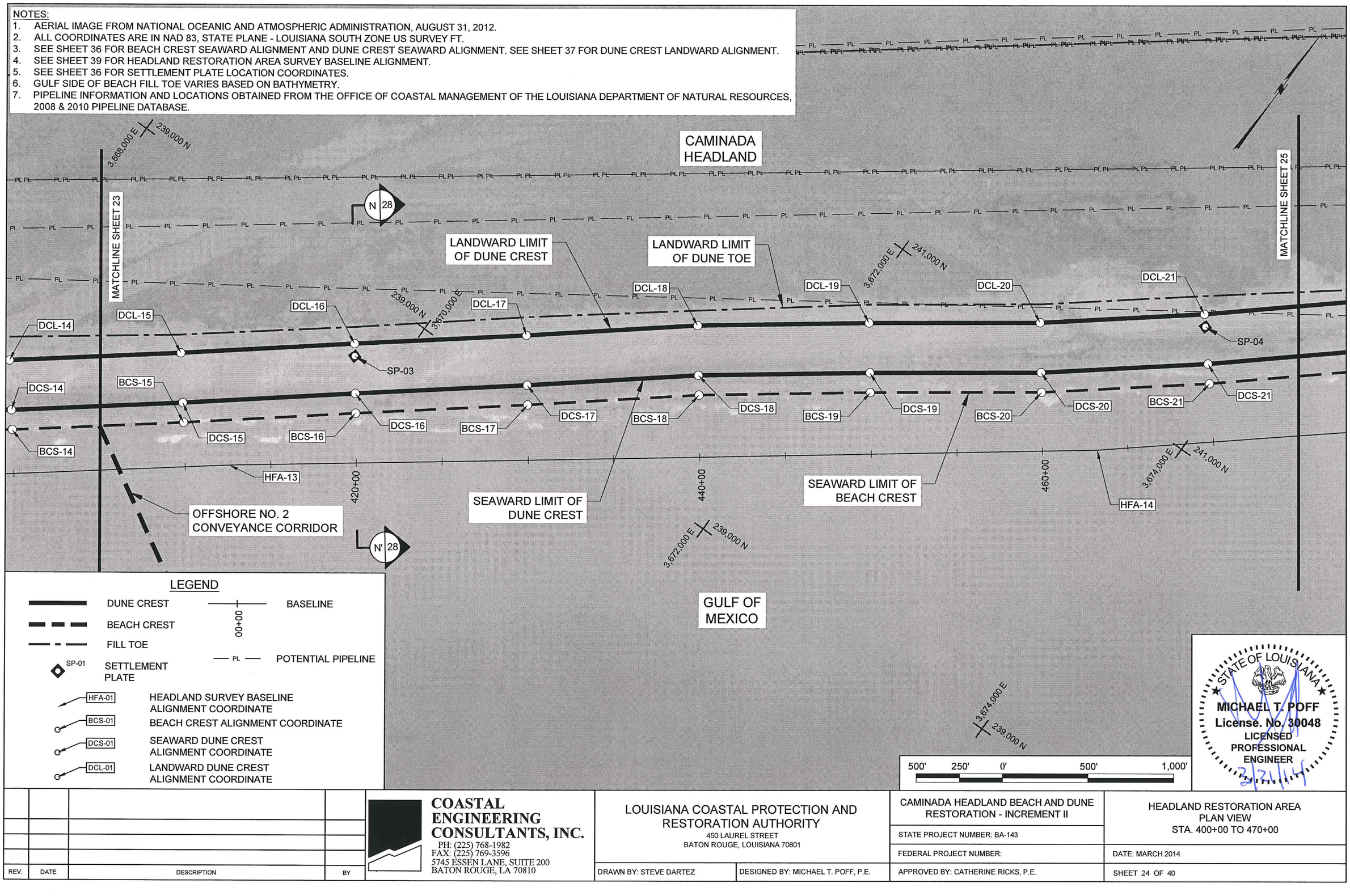
FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

HEADLAND RESTORATION AREA
PLAN VIEW
STA. 330+00 TO 400+00

DATE: MARCH 2014

NOTES:
1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
4. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
5. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
6. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.



LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- 00+00 BASELINE
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 BEACH CREST ALIGNMENT COORDINATE
- DCS-01 SEAWARD DUNE CREST ALIGNMENT COORDINATE
- DCL-01 LANDWARD DUNE CREST ALIGNMENT COORDINATE

STATE OF LOUISIANA
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3/21/14

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BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

HEADLAND RESTORATION AREA
PLAN VIEW
STA. 400+00 TO 470+00

DATE: MARCH 2014

NOTES:
1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
4. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
5. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
6. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

CAMINADA HEADLAND

3,676,000 E, 245,000 N

3,678,000 E, 247,000 N

3,674,000 E, 243,000 N

MATCHLINE SHEET 24

MATCHLINE SHEET 26

LANDWARD LIMIT OF DUNE CREST

LANDWARD LIMIT OF DUNE TOE

O 28

DCL-22 DCL-23 DCL-24 DCL-25 DCL-26 DCL-27 DCL-28

SP-05

DCS-22 DCS-23 DCS-24 DCS-25 DCS-26 DCS-27 DCS-28

BCS-22 BCS-23 BCS-24 BCS-25 BCS-26 BCS-27 BCS-28

480+00 500+00 520+00 540+00

SEAWARD LIMIT OF DUNE CREST

SEAWARD LIMIT OF BEACH CREST

HFA-15

245,000 N, 3,680,000 E

O' 28

3,678,000 E, 243,000 N

OFFSHORE NO. 3 CONVEYANCE CORRIDOR

GULF OF MEXICO

LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- 00+00 BASELINE
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 BEACH CREST ALIGNMENT COORDINATE
- DCS-01 SEAWARD DUNE CREST ALIGNMENT COORDINATE
- DCL-01 LANDWARD DUNE CREST ALIGNMENT COORDINATE

500' 250' 0' 500' 1,000'

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

HEADLAND RESTORATION AREA
PLAN VIEW
STA. 470+00 TO 540+00

DRAWN BY: STEVE DARTEZ	DESIGNED BY: MICHAEL T. POFF, P.E.
STATE PROJECT NUMBER: BA-143	
FEDERAL PROJECT NUMBER:	DATE: MARCH 2014
APPROVED BY: CATHERINE RICKS, P.E.	SHEET 25 OF 40

NOTES:

1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE GENERAL NOTE 12 OF SHEET 2 FOR TEMPORARY UPLAND CONSTRUCTION ACCESS RESTORATION.
4. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
5. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
6. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
7. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
8. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

CAMINADA HEADLAND

ELMER'S ISLAND WILDLIFE REFUGE ACCESS ROAD

3,682,000 E 249,000 N

3,684,000 E 251,000 N

MATCHLINE SHEET 25

MATCHLINE SHEET 27

LANDWARD LIMIT OF DUNE CREST

LANDWARD LIMIT OF DUNE TOE

3,680,000 E 247,000 N

DCL-29 DCL-30 DCL-31 DCL-32 DCL-33 DCL-34 DCL-35

SP-06 SP-07

BCS-30 DCS-32 DCS-33 DCS-34 DCS-35

DCS-29 DCS-30 DCS-31

BCS-29 BCS-31 BCS-32 BCS-33 BCS-34 BCS-35

560+00 580+00 600+00

HFA-16 HFA-17

3,682,000 E 247,000 N

SEAWARD LIMIT OF DUNE CREST

SEAWARD LIMIT OF BEACH CREST

249,000 N 3,686,000 E

GULF OF MEXICO

3,684,000 E 247,000 N

500' 250' 0' 500' 1,000'

LEGEND

- DUNE CREST
- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- BASELINE (00+00)
- TEMPORARY ACCESS AND STAGING AREA
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 SEAWARD BEACH CREST ALIGNMENT COORDINATE
- BCL-01 LANDWARD BEACH CREST ALIGNMENT COORDINATE
- DCS-01 SEAWARD DUNE CREST ALIGNMENT COORDINATE
- DCL-01 LANDWARD DUNE CREST ALIGNMENT COORDINATE

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
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FAX: (225) 769-3596
5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

HEADLAND RESTORATION AREA
PLAN VIEW
STA. 540+00 TO 610+00

DATE: MARCH 2014

SHEET 26 OF 40

NOTES:
1. AERIAL IMAGE FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AUGUST 31, 2012.
2. ALL COORDINATES ARE IN NAD 83, STATE PLANE - LOUISIANA SOUTH ZONE US SURVEY FT.
3. SEE SHEET 36 FOR BEACH CREST SEAWARD ALIGNMENT AND DUNE CREST SEAWARD ALIGNMENT. SEE SHEET 37 FOR DUNE CREST LANDWARD ALIGNMENT.
4. SEE SHEET 39 FOR HEADLAND RESTORATION AREA SURVEY BASELINE ALIGNMENT.
5. SEE SHEET 36 FOR SETTLEMENT PLATE LOCATION COORDINATES.
6. GULF SIDE OF BEACH FILL TOE VARIES BASED ON BATHYMETRY.
7. PIPELINE INFORMATION AND LOCATIONS OBTAINED FROM THE OFFICE OF COASTAL MANAGEMENT OF THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, 2008 & 2010 PIPELINE DATABASE.

MATCHLINE SHEET 26

CAMINADA HEADLAND

3,686,000 E, 251,000 N

P 28

LANDWARD LIMIT OF DUNE TOE

LANDWARD LIMIT OF DUNE CREST

3,688,000 E, 253,000 N

3,690,000 E, 255,000 N

DCL-36

DCL-37

DCL-38

DCL-39

SP-08

ELMER'S ISLAND

DCL-40

DCS-40

3,690,000 E, 253,000 N

HFA-19

680+00

BCS-36

620+00

DCS-36

BCS-37

DCS-37

BCS-38

640+00

DCS-38

BCS-39

DCS-39

660+00

HFA-18

BCS-40

CAMINADA PASS

SEAWARD LIMIT OF BEACH CREST

SEAWARD LIMIT OF DUNE CREST

P' 28

GULF OF MEXICO

3,690,000 E, 251,000 N

500' 250' 0' 500' 1,000'

LEGEND

- BEACH CREST
- FILL TOE
- SP-01 SETTLEMENT PLATE
- 00+00 BASELINE
- PL POTENTIAL PIPELINE
- HFA-01 HEADLAND SURVEY BASELINE ALIGNMENT COORDINATE
- BCS-01 SEAWARD BEACH CREST ALIGNMENT COORDINATE
- BCL-01 LANDWARD BEACH CREST ALIGNMENT COORDINATE

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/31/14

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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
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BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

APPROVED BY: CATHERINE RICKS, P.E.

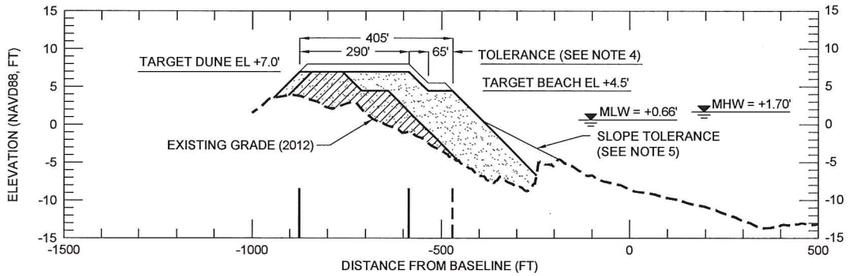
HEADLAND RESTORATION AREA
PLAN VIEW
STA. 610+00 TO 680+00

DATE: MARCH 2014

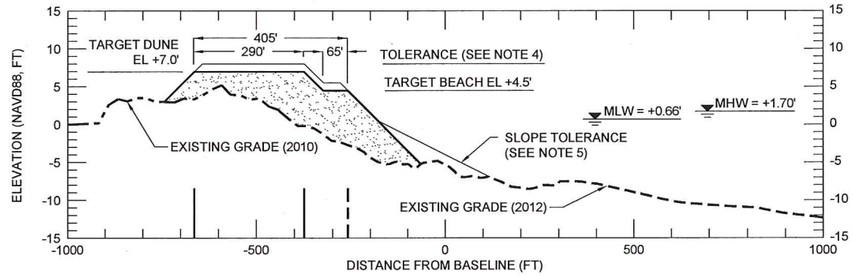
SHEET 27 OF 40

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

M - M'



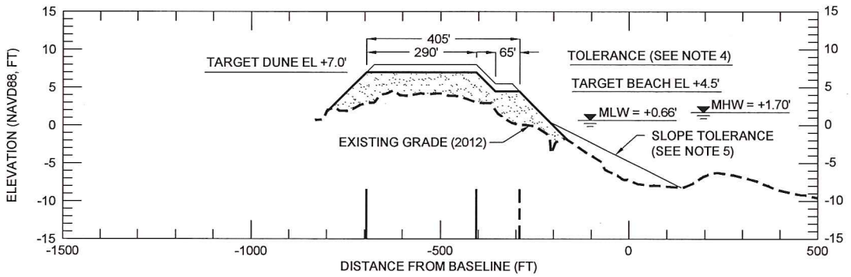
O - O'



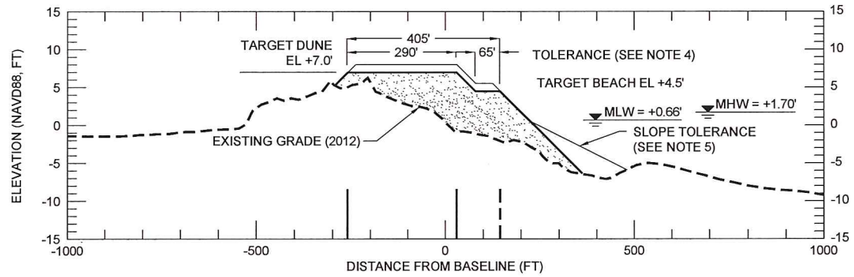
LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- EXISTING GRADE (2010)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)
- INCREMENT I BEACH / DUNE FILL
- BEACH FILL CREST ALIGNMENT
- DUNE FILL CREST ALIGNMENT

N - N'



P - P'



NOTES:
1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. SURVEY CONDUCTED BY EMC, INC., 2012, AND PICCIOLA & ASSOCIATES, INC. 2010.
3. ALL SLOPES 1V:20H UNLESS OTHERWISE DESIGNATED.
4. A PLUS ONE FOOT TOLERANCE IS INCLUDED TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION/SETTLEMENT OF THE FILL.
5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
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3/31/14

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

HEADLAND RESTORATION AREA
TYPICAL CROSS SECTIONS

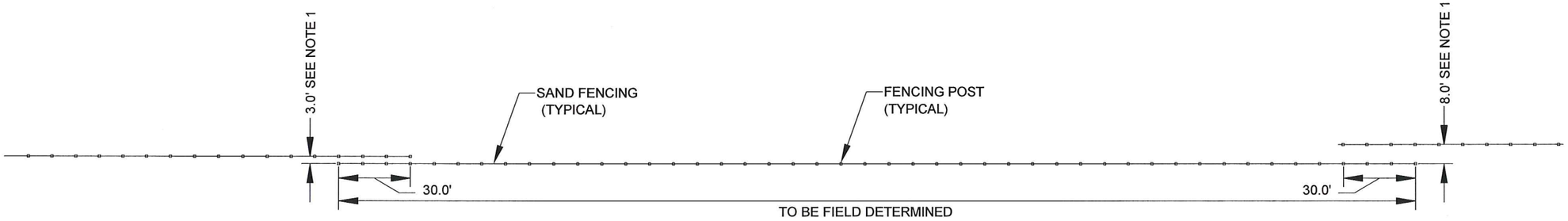
STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DATE: MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

SHEET 28 OF 40

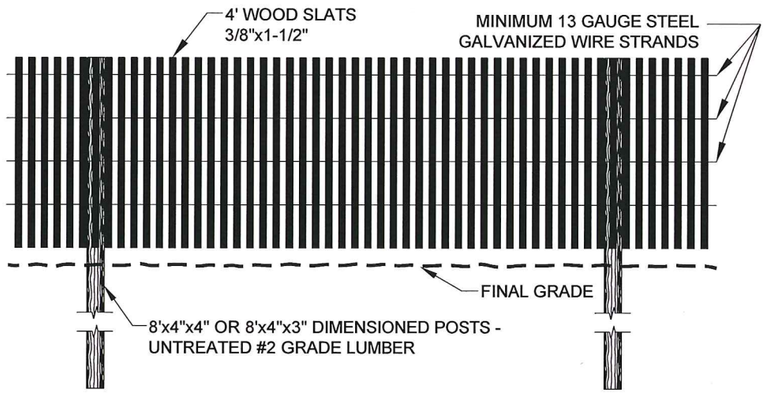


FENCING GAPPING DIMENSIONS

NOT TO SCALE

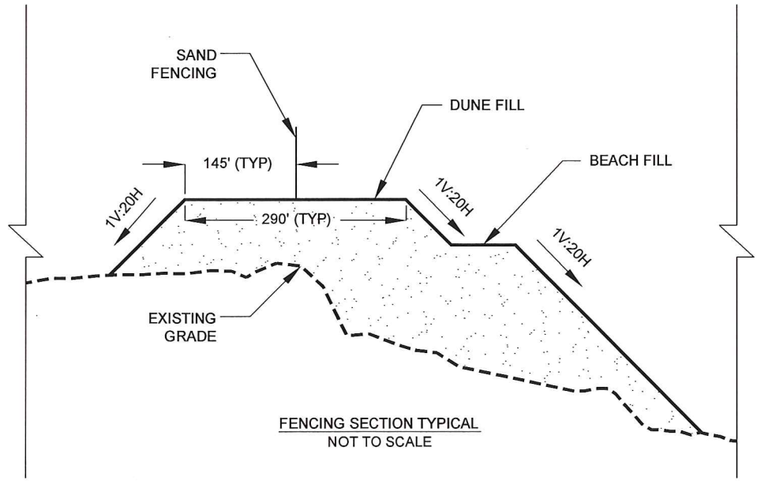
NOTES:

1. THE DISTANCE BETWEEN FENCES SHALL BE INCREASED FROM 3.0' TO 8.0' AT EVERY FIFTH GAP TO ALLOW ALL-TERRAIN VEHICLE ACCESS.
2. SEE TS-14 OF THE SPECIFICATIONS FOR SAND FENCE CONSTRUCTION DETAILS.



FENCING DETAIL

NOT TO SCALE



FENCING SECTION TYPICAL

NOT TO SCALE

STATE OF LOUISIANA
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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

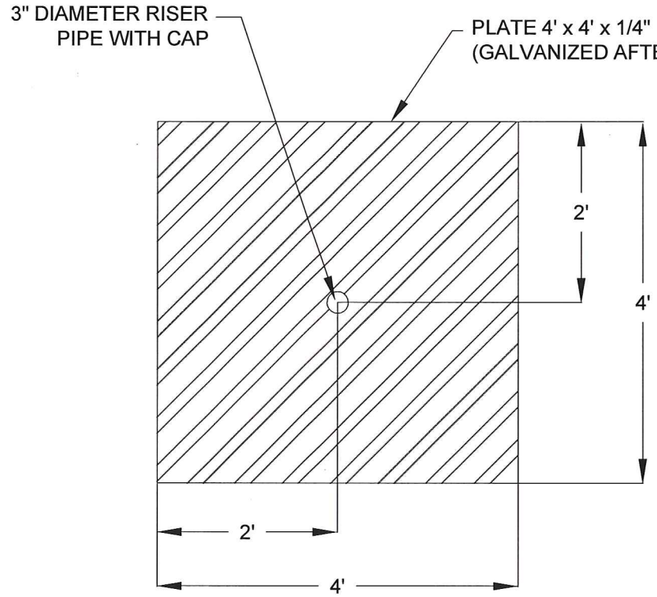
STATE PROJECT NUMBER: BA-143

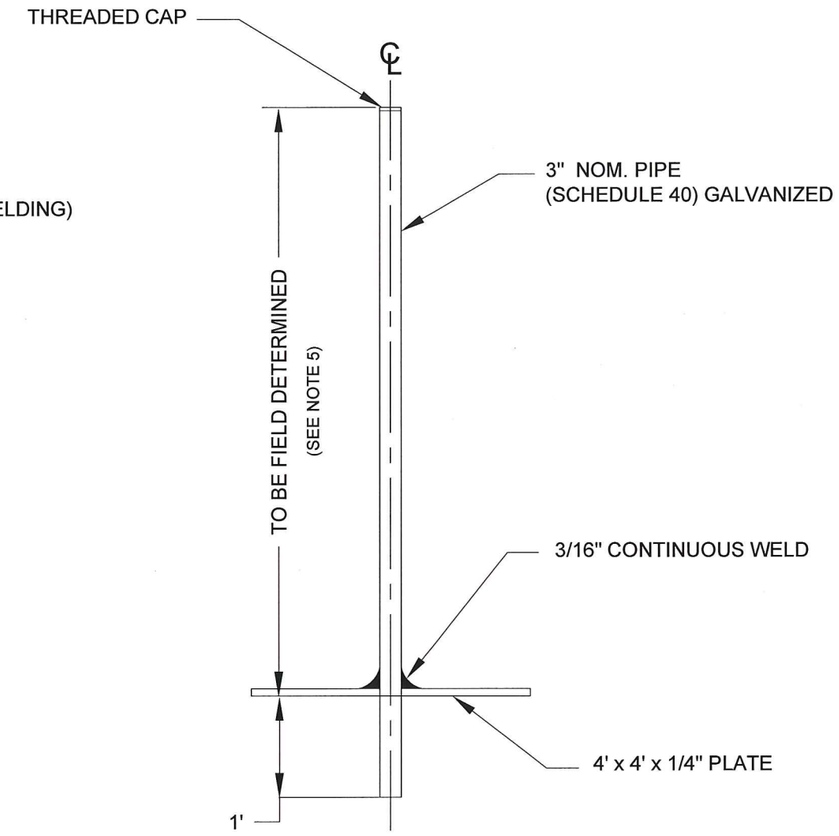
FEDERAL PROJECT NUMBER:

SAND FENCING DETAILS

DATE: MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.





SETTLEMENT PLATE

NOT TO SCALE

NOTES:

1. SETTLEMENT PLATES SHALL BE CONSTRUCTED USING ASTM A36 STEEL AND HOT- DIPPED GALVANIZED AFTER FABRICATION.
2. ALL SETTLEMENT PLATES SHALL BE SURVEYED IN THE PRESENCE OF THE RESIDENT PROJECT REPRESENTATIVE 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. SEE TS-15 FOR SETTLEMENT PLATE CONSTRUCTION DETAILS.

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

SETTLEMENT PLATE DETAILS

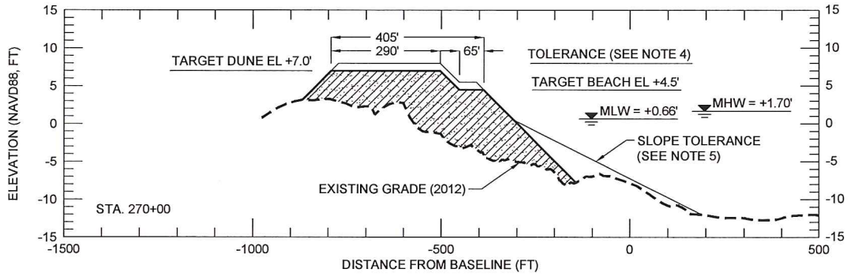
STATE PROJECT NUMBER: BA-143

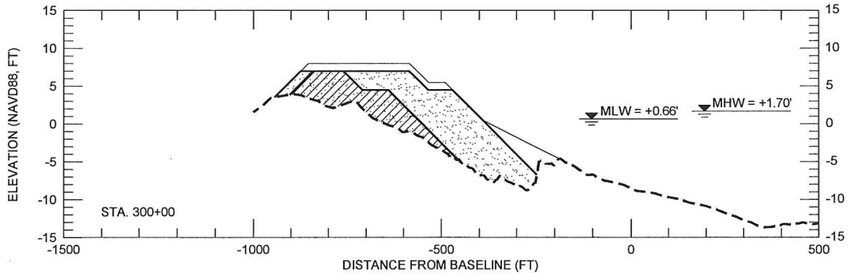
FEDERAL PROJECT NUMBER:

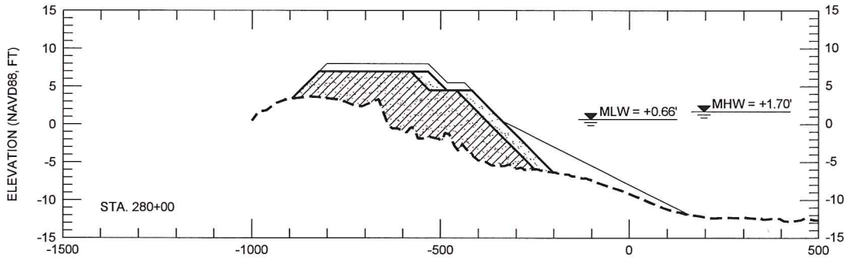
DATE: MARCH 2014

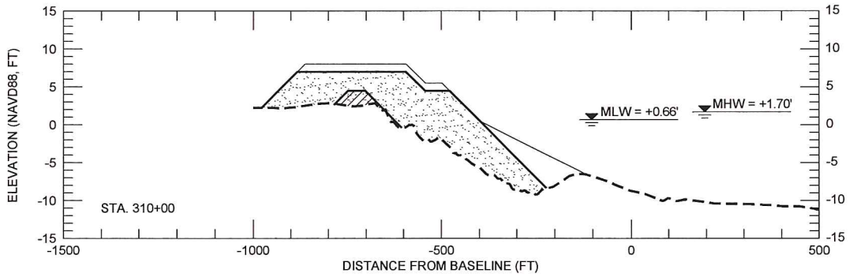
DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

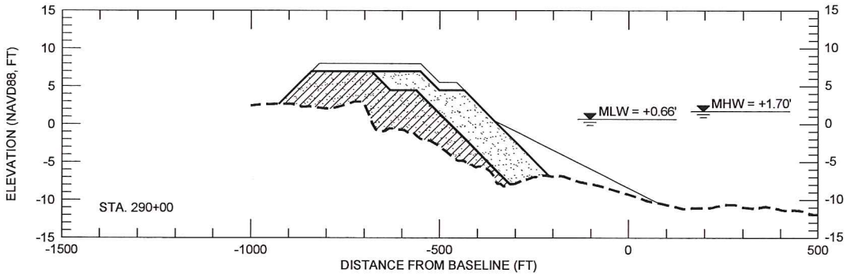
SCALE:
H: 1" = 400'
V: 1" = 20'

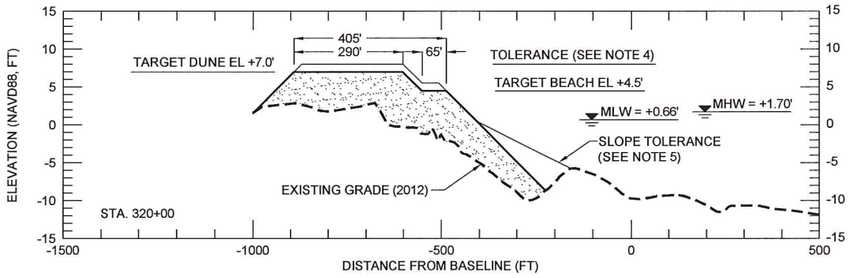












LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)
- INCREMENT I BEACH / DUNE FILL

NOTES:
1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. SURVEY CONDUCTED BY EMC INC., 2012.
3. ALL SLOPES 1V:20H UNLESS OTHERWISE DESIGNATED.
4. A PLUS ONE FOOT TOLERANCE IS INCLUDED TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION/SETTLEMENT OF THE FILL.
5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

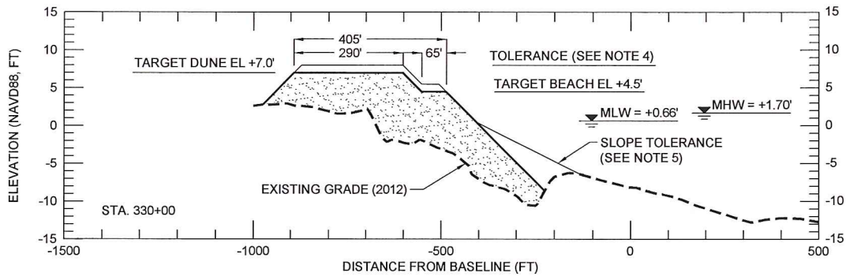
FEDERAL PROJECT NUMBER:

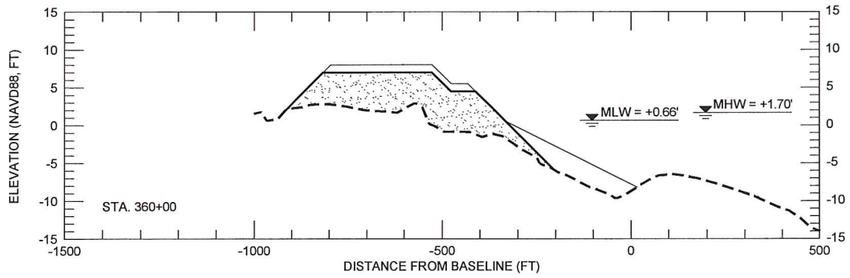
FILL AREA CROSS SECTIONS
STATION 270+00 TO 320+00

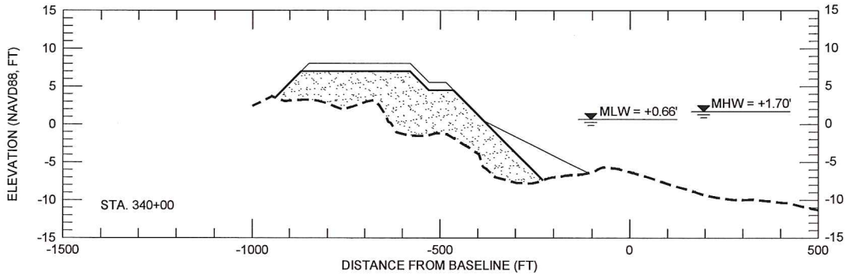
DATE: MARCH 2014

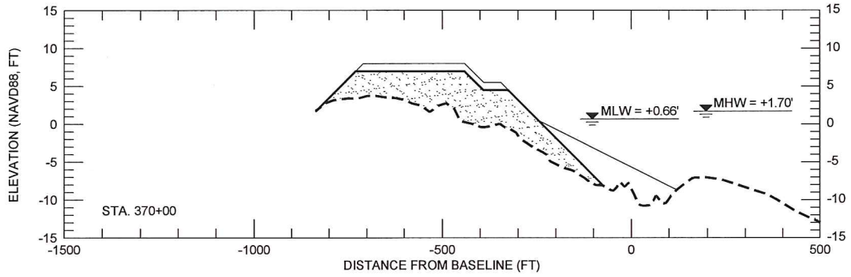
DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

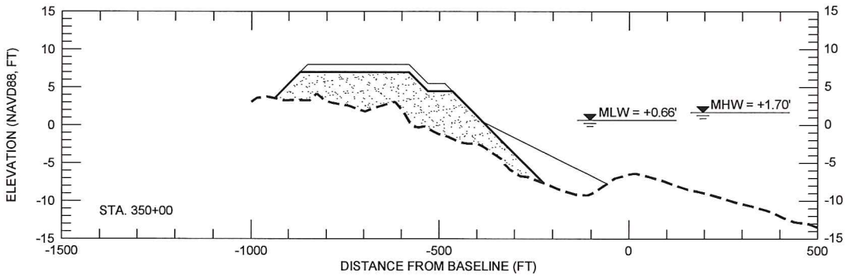
SCALE:
H: 1" = 400'
V: 1" = 20'

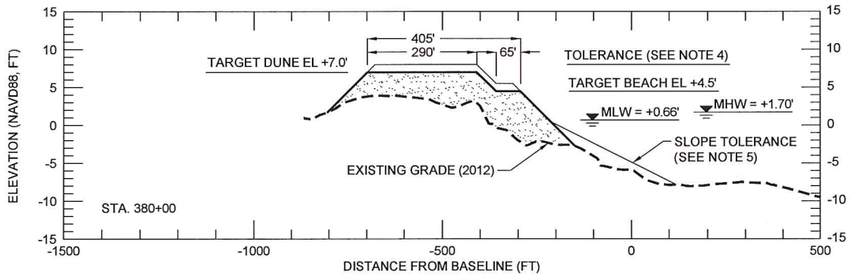












LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)

NOTES:
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5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

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450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

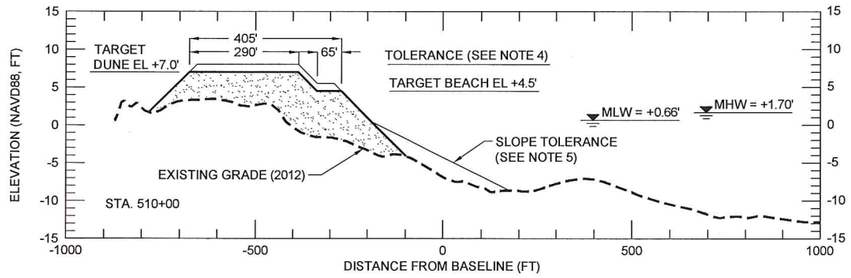
FEDERAL PROJECT NUMBER:

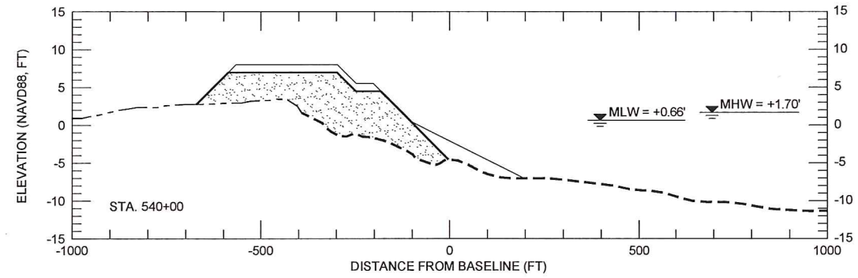
FILL AREA CROSS SECTIONS
STATION 330+00 TO 380+00

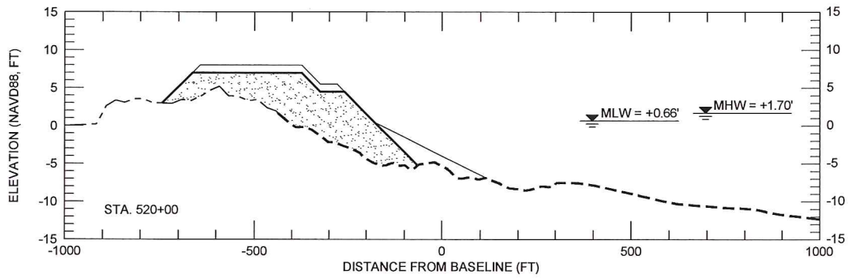
DATE: MARCH 2014

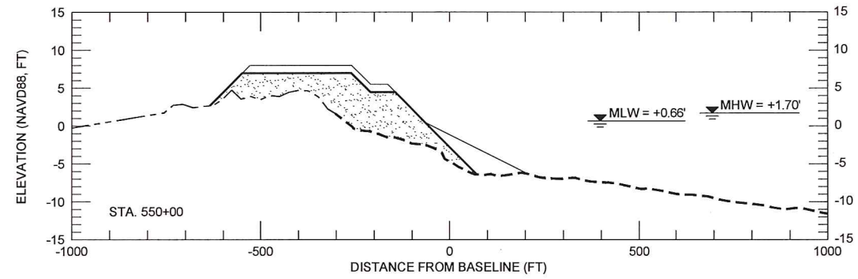
DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

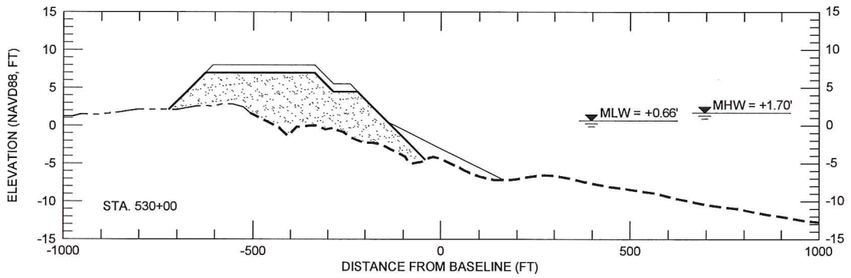
SCALE:
H: 1" = 400'
V: 1" = 20'

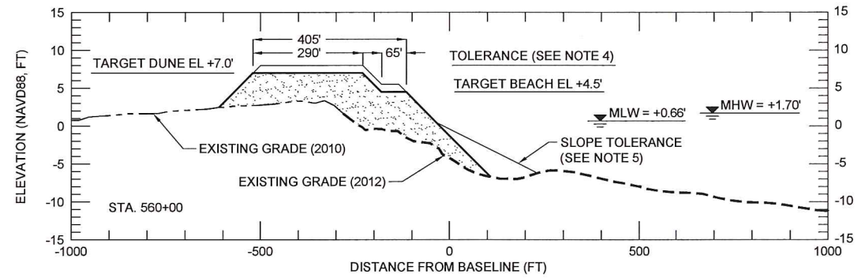












LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- EXISTING GRADE (2010)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)

NOTES:
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5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

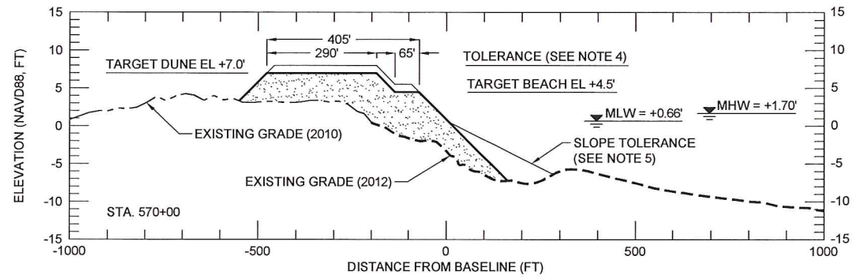
APPROVED BY: CATHERINE RICKS, P.E.

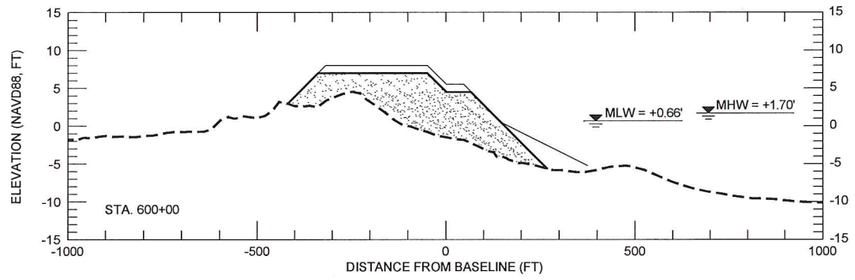
FILL AREA CROSS SECTIONS
STATION 510+00 TO 560+00

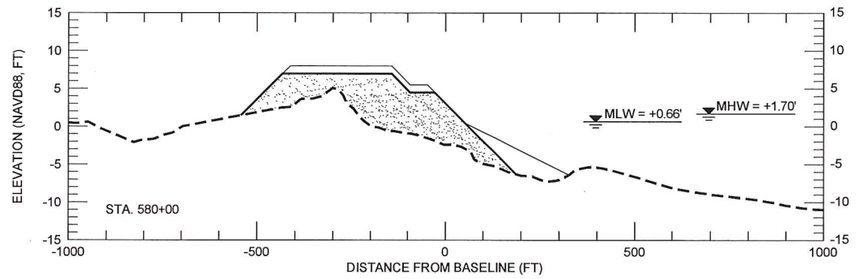
DATE: MARCH 2014

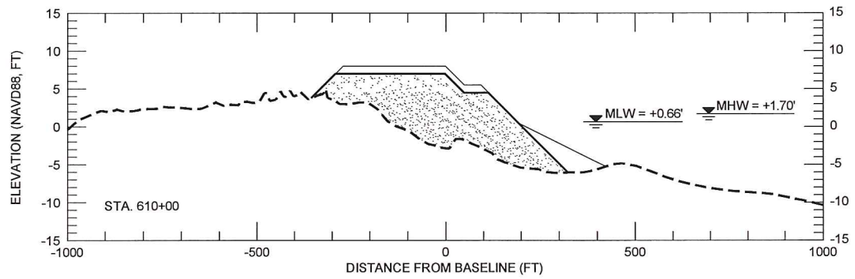
SHEET 33 OF 40

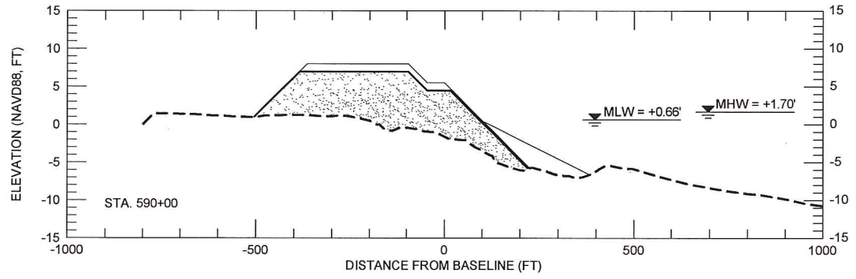
SCALE:
H: 1" = 400'
V: 1" = 20'

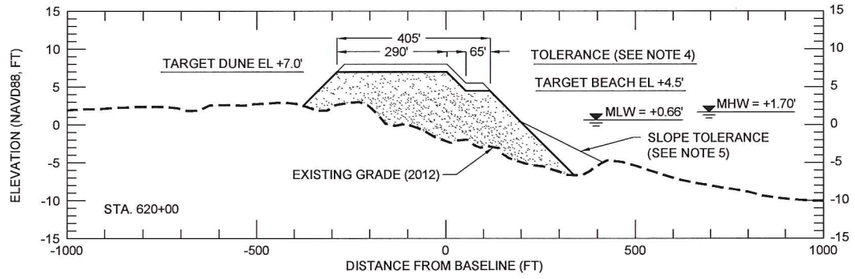












LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- EXISTING GRADE (2010)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)

NOTES:
1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. SURVEY CONDUCTED BY EMC, INC., 2012, AND PICCIOLA & ASSOCIATES, INC. 2010.
3. ALL SLOPES 1V:20H UNLESS OTHERWISE DESIGNATED.
4. A PLUS ONE FOOT TOLERANCE IS INCLUDED TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION/SETTLEMENT OF THE FILL.
5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/21/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
PH: (225) 768-1982
FAX: (225) 769-3596
5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

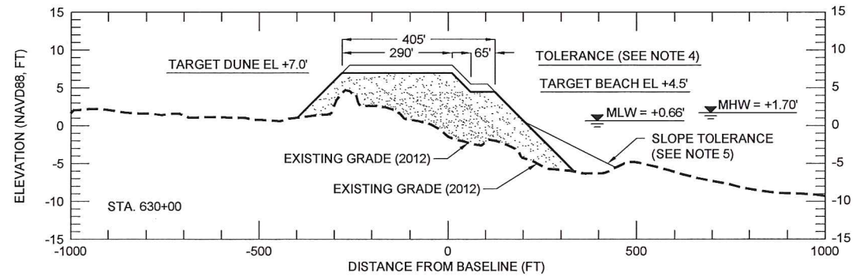
FILL AREA CROSS SECTIONS
STATION 570+00 TO 620+00

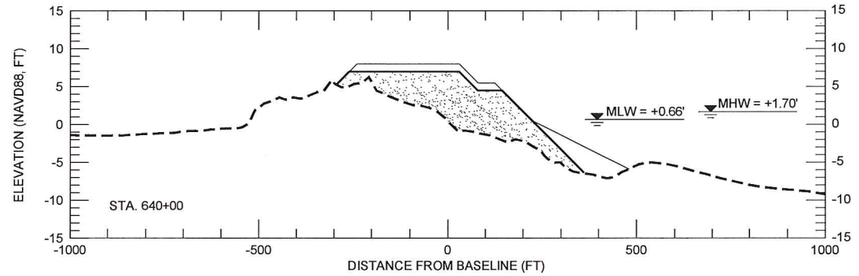
DATE: MARCH 2014

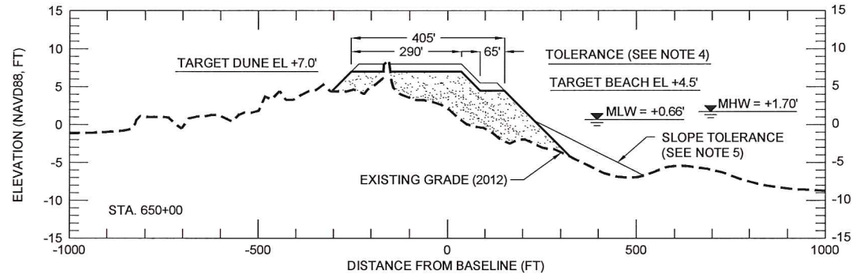
DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

SHEET 34 OF 40

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







LEGEND:

- INCREMENT II BEACH / DUNE FILL
- EXISTING GRADE (2012)
- DESIGN
- CONSTRUCTION TOLERANCE (SEE NOTE 4)

NOTES:
1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. SURVEY CONDUCTED BY EMC INC., 2012.
3. ALL SLOPES 1V:20H UNLESS OTHERWISE DESIGNATED.
4. A PLUS ONE FOOT TOLERANCE IS INCLUDED TO ACCOUNT FOR CONSTRUCTION METHODS AND CONSOLIDATION/SETTLEMENT OF THE FILL.
5. CONSTRUCTION SLOPE TOLERANCE OF 1V:40H PROVIDED FROM MEAN LOW WATER SEAWARD.

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/27/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
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5745 ESSEN LANE, SUITE 200
BATON ROUGE, LA 70810

LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

FILL AREA CROSS SECTIONS
STATION
630+00 TO 650+00

DATE: MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: CATHERINE RICKS, P.E.

BEACH CREST ALIGNMENT

PI NUMBER	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
BC-01	229,523.19	3,657,865.00	N 53° 23' 34" E			1,000.44
BC-02	230,119.78	3,658,668.10	N 54° 03' 31" E	00° 39' 57"	RIGHT	1,000.16
BC-03	230,706.83	3,659,477.85	N 52° 54' 34" E	01° 08' 57"	LEFT	995.01
BC-04	231,306.90	3,660,271.55	N 53° 54' 03" E	00° 59' 29"	RIGHT	1,000.04
BC-05	231,896.11	3,661,079.58	N 53° 54' 03" E	00° 00' 00"	LEFT	1,000.04
BC-06	232,485.31	3,661,887.61	N 53° 55' 01" E	00° 00' 58"	RIGHT	993.27
BC-07	233,070.31	3,662,690.33	N 54° 51' 01" E	00° 56' 00"	RIGHT	1,000.24
BC-08	233,646.16	3,663,508.17	N 53° 35' 57" E	01° 15' 04"	LEFT	1,000.00
BC-09	234,239.59	3,664,313.06	N 56° 40' 29" E	03° 04' 32"	RIGHT	1,001.43
BC-10	234,789.77	3,665,149.82	N 57° 07' 19" E	00° 26' 50"	RIGHT	992.45
BC-11	235,328.52	3,665,983.31	N 53° 49' 14" E	03° 18' 05"	LEFT	1,000.50
BC-12	235,919.13	3,666,790.88	N 52° 36' 36" E	01° 12' 38"	LEFT	1,000.05
BC-13	236,526.40	3,667,585.45	N 53° 37' 31" E	01° 00' 55"	RIGHT	1,000.40
BC-14	237,119.70	3,668,390.92	N 51° 49' 32" E	01° 47' 59"	LEFT	1,000.01
BC-15	237,737.76	3,669,177.06	N 51° 16' 53" E	00° 32' 39"	LEFT	1,006.97
BC-16	238,367.62	3,669,962.73	N 51° 35' 48" E	00° 18' 55"	RIGHT	1,000.51
BC-17	238,989.13	3,670,746.78	N 51° 07' 22" E	00° 28' 26"	LEFT	1,001.60
BC-18	239,617.79	3,671,526.52	N 53° 35' 54" E	02° 28' 31"	RIGHT	999.21
BC-19	240,210.76	3,672,330.76	N 54° 21' 25" E	00° 45' 32"	RIGHT	1,000.13
BC-20	240,793.57	3,673,143.53	N 51° 28' 45" E	02° 52' 40"	LEFT	981.37
BC-21	241,404.76	3,673,911.34	N 49° 36' 10" E	01° 52' 35"	LEFT	1,000.08
BC-22	242,052.90	3,674,672.97	N 49° 36' 10" E	00° 00' 00"	RIGHT	1,000.08
BC-23	242,701.04	3,675,434.60	N 52° 47' 09" E	03° 10' 59"	RIGHT	1,000.91
BC-24	243,306.38	3,676,231.71	N 54° 32' 07" E	01° 44' 58"	RIGHT	1,014.61
BC-25	243,895.07	3,677,058.08	N 53° 37' 42" E	00° 54' 24"	LEFT	1,000.60
BC-26	244,488.44	3,677,863.75	N 55° 08' 52" E	01° 31' 09"	RIGHT	1,005.47
BC-27	245,063.03	3,678,688.87	N 55° 08' 37" E	00° 00' 15"	LEFT	996.68
BC-28	245,632.66	3,679,506.73	N 55° 08' 48" E	00° 00' 11"	RIGHT	999.47
BC-29	246,203.83	3,680,326.92	N 55° 08' 44" E	00° 00' 04"	LEFT	1,003.72
BC-30	246,777.45	3,681,150.58	N 56° 50' 10" E	01° 41' 25"	RIGHT	1,000.81
BC-31	247,324.93	3,681,988.37	N 57° 14' 38" E	00° 24' 28"	RIGHT	1,001.12
BC-32	247,866.60	3,682,830.29	N 57° 14' 38" E	00° 00' 00"	LEFT	1,001.12
BC-33	248,408.28	3,683,672.22	N 57° 14' 38" E	00° 00' 00"	RIGHT	1,001.12
BC-34	248,949.95	3,684,514.15	N 57° 16' 10" E	00° 01' 32"	RIGHT	996.58
BC-35	249,488.79	3,685,352.49	N 57° 03' 47" E	00° 12' 23"	LEFT	1,000.01
BC-36	250,032.51	3,686,191.77	N 57° 14' 07" E	00° 10' 20"	RIGHT	1,000.03
BC-37	250,573.72	3,687,032.69	N 57° 57' 59" E	00° 43' 52"	RIGHT	1,000.20
BC-38	251,104.25	3,687,880.60	N 57° 10' 39" E	00° 47' 19"	LEFT	1,000.02
BC-39	251,646.30	3,688,720.97	N 45° 12' 44" E	11° 57' 56"	LEFT	1,020.84
BC-40	252,365.46	3,689,445.49				

DUNE CREST SEAWARD ALIGNMENT

PI NUMBER	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
DCS-01	229,617.50	3,657,799.20	N 53° 23' 34" E			1,000.44
DCS-02	230,214.09	3,658,602.29	N 54° 03' 31" E	00° 39' 57"	RIGHT	1,000.16
DCS-03	230,801.14	3,659,412.04	N 52° 54' 25" E	01° 09' 07"	LEFT	993.61
DCS-04	231,400.40	3,660,204.60	N 53° 54' 03" E	00° 59' 38"	RIGHT	1,000.04
DCS-05	231,989.61	3,661,012.63	N 53° 54' 03" E	00° 00' 00"	-	1,000.04
DCS-06	232,578.82	3,661,820.66	N 53° 55' 00" E	00° 00' 58"	RIGHT	991.68
DCS-07	233,162.88	3,662,622.10	N 54° 51' 01" E	00° 56' 01"	RIGHT	1,000.24
DCS-08	233,738.73	3,663,439.94	N 53° 35' 57" E	01° 15' 04"	LEFT	1,000.00
DCS-09	234,332.16	3,664,244.83	N 56° 50' 46" E	03° 14' 49"	RIGHT	1,001.60
DCS-10	234,879.92	3,665,083.37	N 56° 57' 45" E	00° 06' 59"	RIGHT	989.08
DCS-11	235,419.16	3,665,912.53	N 53° 49' 14" E	03° 08' 31"	LEFT	1,000.50
DCS-12	236,009.77	3,666,720.10	N 52° 36' 36" E	01° 12' 38"	LEFT	1,000.05
DCS-13	236,617.04	3,667,514.66	N 53° 37' 31" E	01° 00' 55"	RIGHT	1,000.40
DCS-14	237,210.34	3,668,320.14	N 51° 49' 32" E	01° 47' 59"	LEFT	1,000.01
DCS-15	237,828.40	3,669,106.28	N 51° 17' 08" E	00° 32' 25"	LEFT	1,009.79
DCS-16	238,459.97	3,669,894.19	N 51° 35' 48" E	00° 18' 40"	RIGHT	1,000.51
DCS-17	239,081.47	3,670,678.24	N 51° 07' 16" E	00° 28' 32"	LEFT	1,000.80
DCS-18	239,709.65	3,671,457.35	N 53° 35' 52" E	02° 28' 36"	RIGHT	1,000.00
DCS-19	240,303.11	3,672,262.22	N 54° 21' 25" E	00° 45' 33"	RIGHT	1,000.13
DCS-20	240,885.92	3,673,074.99	N 51° 28' 36" E	02° 52' 49"	LEFT	975.20
DCS-21	241,493.30	3,673,837.95	N 49° 36' 10" E	01° 52' 26"	LEFT	1,000.08
DCS-22	242,141.44	3,674,599.58	N 49° 36' 10" E	00° 00' 00"	RIGHT	1,000.08
DCS-23	242,789.57	3,675,361.21	N 52° 47' 09" E	03° 10' 59"	RIGHT	1,000.91
DCS-24	243,394.92	3,676,158.32	N 54° 31' 13" E	01° 44' 04"	RIGHT	1,019.88
DCS-25	243,986.88	3,676,988.83	N 53° 37' 43" E	00° 53' 30"	LEFT	1,000.07
DCS-26	244,579.93	3,677,794.07	N 55° 08' 47" E	01° 31' 04"	RIGHT	1,000.72
DCS-27	245,151.82	3,678,615.28	N 55° 08' 47" E	00° 00' 00"	RIGHT	1,000.72
DCS-28	245,723.71	3,679,436.48	N 55° 08' 39" E	00° 00' 09"	LEFT	1,000.72
DCS-29	246,295.64	3,680,257.67	N 55° 46' 27" E	00° 37' 48"	RIGHT	1,007.02
DCS-30	246,862.05	3,681,090.30	N 56° 11' 59" E	00° 25' 32"	RIGHT	1,000.43
DCS-31	247,418.58	3,681,921.63	N 57° 14' 38" E	01° 02' 39"	RIGHT	1,001.12
DCS-32	247,960.26	3,682,763.56	N 57° 14' 38" E	00° 00' 00"	RIGHT	1,001.12
DCS-33	248,501.93	3,683,605.48	N 57° 14' 38" E	00° 00' 00"	LEFT	1,001.12
DCS-34	249,043.61	3,684,447.41	N 57° 15' 43" E	00° 01' 05"	RIGHT	1,001.16
DCS-35	249,585.03	3,685,289.54	N 57° 03' 47" E	00° 11' 56"	LEFT	1,000.01
DCS-36	250,128.75	3,686,128.82	N 57° 14' 07" E	00° 10' 20"	RIGHT	1,000.03
DCS-37	250,669.96	3,686,969.74	N 57° 57' 59" E	00° 43' 52"	RIGHT	1,000.20
DCS-38	251,200.49	3,687,817.65	N 57° 10' 39" E	00° 47' 19"	LEFT	1,000.02
DCS-39	251,742.53	3,688,658.02	N 51° 39' 14" E	05° 31' 25"	LEFT	1,004.06
DCS-40	252,365.46	3,689,445.49				

SETTLEMENT PLATES

NAME	NORTHING	EASTING
SP-01	232,755.66	3,661,694.04
SP-02	235,590.58	3,665,778.66
SP-03	238,634.62	3,669,764.57
SP-04	241,660.75	3,673,699.14
SP-05	244,753.58	3,677,663.10
SP-06	247,594.96	3,681,795.95
SP-07	249,220.80	3,684,321.15
SP-08	251,382.76	3,687,698.98

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
2/24/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
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5745 ESSEN LANE, SUITE 200
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LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

COORDINATE AND ALIGNMENT TABLES

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

DATE:MARCH 2014

DUNE CREST LANDWARD ALIGNMENT						
PI NUMBER	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
DCL-01	229,855.32	3,657,633.24	N 53° 23' 34" E			1,000.44
DCL-02	230,451.91	3,658,436.34	N 54° 03' 31" E	00° 39' 57"	RIGHT	1,000.16
DCL-03	231,038.96	3,659,246.09	N 52° 54' 01" E	01° 09' 30"	LEFT	990.10
DCL-04	231,636.19	3,660,035.78	N 53° 53' 58" E	00° 59' 57"	RIGHT	1,000.04
DCL-05	232,225.42	3,660,843.79	N 53° 54' 07" E	00° 00' 08"	RIGHT	1,000.04
DCL-06	232,814.61	3,661,651.83	N 53° 54' 59" E	00° 00' 52"	RIGHT	987.68
DCL-07	233,396.32	3,662,450.04	N 54° 51' 01" E	00° 56' 02"	RIGHT	1,000.24
DCL-08	233,972.17	3,663,267.88	N 53° 35' 57" E	01° 15' 04"	LEFT	1,000.00
DCL-09	234,565.60	3,664,072.77	N 56° 40' 29" E	03° 04' 32"	RIGHT	1,001.43
DCL-10	235,115.78	3,664,909.53	N 57° 10' 17" E	00° 29' 48"	RIGHT	981.21
DCL-11	235,647.72	3,665,734.04	N 53° 49' 14" E	03° 21' 03"	LEFT	1,000.50
DCL-12	236,238.33	3,666,541.61	N 52° 36' 33" E	01° 12' 41"	LEFT	999.11
DCL-13	236,845.04	3,667,335.41	N 53° 37' 31" E	01° 00' 59"	RIGHT	1,001.34
DCL-14	237,438.90	3,668,141.65	N 51° 49' 32" E	01° 47' 59"	LEFT	1,000.01
DCL-15	238,056.96	3,668,927.79	N 51° 17' 44" E	00° 31' 49"	LEFT	1,016.91
DCL-16	238,692.84	3,669,721.36	N 51° 35' 48" E	00° 18' 04"	RIGHT	1,000.51
DCL-17	239,314.35	3,670,505.42	N 51° 07' 16" E	00° 28' 32"	LEFT	1,000.80
DCL-18	239,942.53	3,671,284.52	N 53° 35' 52" E	02° 28' 36"	RIGHT	1,000.00
DCL-19	240,535.98	3,672,089.39	N 54° 21' 25" E	00° 45' 33"	RIGHT	1,000.13
DCL-20	241,118.79	3,672,902.17	N 51° 28' 13" E	02° 53' 13"	LEFT	959.63
DCL-21	241,716.57	3,673,652.87	N 49° 36' 10" E	01° 52' 02"	LEFT	1,000.08
DCL-22	242,364.71	3,674,414.51	N 49° 36' 10" E	00° 00' 00"	RIGHT	1,000.08
DCL-23	243,012.84	3,675,176.14	N 52° 47' 09" E	03° 10' 59"	RIGHT	1,000.91
DCL-24	243,618.19	3,675,973.24	N 54° 29' 00" E	01° 41' 52"	RIGHT	1,033.18
DCL-25	244,218.40	3,676,814.20	N 53° 37' 43" E	00° 51' 17"	LEFT	1,000.07
DCL-26	244,811.46	3,677,619.44	N 55° 08' 47" E	01° 31' 04"	RIGHT	1,000.72
DCL-27	245,383.35	3,678,440.65	N 55° 08' 39" E	00° 00' 08"	LEFT	1,001.77
DCL-28	245,955.88	3,679,262.69	N 55° 08' 47" E	00° 00' 08"	RIGHT	999.66
DCL-29	246,527.16	3,680,083.03	N 55° 07' 42" E	00° 01' 05"	LEFT	1,014.70
DCL-30	247,107.31	3,680,915.53	N 56° 50' 18" E	01° 42' 35"	RIGHT	1,000.81
DCL-31	247,654.76	3,681,753.34	N 57° 14' 38" E	00° 24' 20"	RIGHT	1,001.12
DCL-32	248,196.43	3,682,595.27	N 57° 14' 38" E	00° 00' 00"	RIGHT	1,001.12
DCL-33	248,738.11	3,683,437.19	N 57° 14' 38" E	00° 00' 00"	LEFT	1,001.12
DCL-34	249,279.78	3,684,279.12	N 57° 14' 38" E	00° 00' 00"	LEFT	1,012.71
DCL-35	249,827.72	3,685,130.79	N 57° 03' 47" E	00° 10' 51"	LEFT	1,000.01
DCL-36	250,371.44	3,685,970.07	N 57° 14' 07" E	00° 10' 20"	RIGHT	1,000.03
DCL-37	250,912.65	3,686,810.99	N 57° 57' 59" E	00° 43' 52"	RIGHT	1,000.20
DCL-38	251,443.18	3,687,658.90	N 57° 10' 39" E	00° 47' 19"	LEFT	1,000.02
DCL-39	251,985.22	3,688,499.27	N 68° 06' 26" E	10° 55' 46"	RIGHT	1,019.76
DCL-40	252,365.46	3,689,445.49				

SOUTH PELTO BORROW AREA AVOIDANCE AREAS			
AREA NUMBER	NORTHING	EASTING	RADIUS
A1	148,240.93	3,508,761.19	500'
	148,162.69	3,509,042.36	500'
A2	149,680.00	3,509,865.00	500'
	149,585.00	3,509,886.00	500'
A3	149,462.44	3,514,200.30	500'
A4	150,117.83	3,515,381.20	500'
	149,981.83	3,515,393.20	500'
A5	152,876.83	3,507,643.20	500'

SOUTH PELTO BORROW AREA VIBRACORES		
CORE NAME	NORTHING	EASTING
CHVC-05-15	150,120.76	3,511,654.43
CHVC-05-16	151,717.46	3,511,980.40
CHVC-05-17	151,561.71	3,513,636.91
CEC-11-VC-1	151,993.20	3,509,675.80
CEC-11-VC-2A	152,783.60	3,511,118.90
CEC-11-VC-3	151,097.10	3,509,763.10
CEC-11-VC-4	151,609.90	3,510,615.20
CEC-11-VC-5	152,462.00	3,512,444.80
CEC-11-VC-6	149,817.30	3,510,562.30
CEC-11-VC-7	150,778.40	3,511,143.80
CEC-11-VC-8	150,805.10	3,512,291.60
CEC-11-VC-9	151,686.00	3,512,893.40
CEC-11-VC-10	148,977.90	3,511,070.60
CEC-11-VC-11	150,054.20	3,512,749.50
CEC-11-VC-12	150,836.80	3,513,404.70
CEC-11-VC-13	150,989.00	3,514,548.30

SOUTH PELTO BORROW AREA COORDINATES (BOTOM OF CUT)		
POINT NUMBER	NORTHING	EASTING
SBA-01	152,602.15	3,512,246.77
SBA-02	151,098.03	3,515,336.17
SBA-03	150,980.97	3,515,106.02
SBA-04	150,863.91	3,514,875.86
SBA-05	148,995.76	3,511,202.94
SBA-06	150,741.16	3,510,506.01
SBA-07	148,960.81	3,507,005.98
SBA-08	149,855.43	3,506,550.92
SBA-09	150,176.63	3,506,387.53
SBA-10	150,497.82	3,506,224.15
SBA-11	152,201.33	3,507,254.11
SBA-12	152,167.03	3,507,590.96
SBA-13	152,132.73	3,507,927.80
SBA-14	151,877.90	3,510,430.43
SBA-15	152,395.83	3,511,729.35
SBA-16	152,498.99	3,511,988.06

STATE OF LOUISIANA
MICHAEL T. POFF
License. No. 30048
LICENSED PROFESSIONAL ENGINEER
3/25/14

REV.	DATE	DESCRIPTION	BY

COASTAL ENGINEERING CONSULTANTS, INC.
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450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

COORDINATE AND ALIGNMENT TABLES

DATE:MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

UPLAND CONVEYANCE COORIDOR AND SURVEY BASELINE ALIGNMENT						
PI NUMBER	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
UCC-01	215,197.83	3,635,743.95	N 68° 19' 38" E			1,003.77
UCC-02	215,568.53	3,636,676.76	N 63° 21' 24" E	04° 58' 14"	LEFT	500.00
UCC-03	215,792.75	3,637,123.67	N 61° 43' 01" E	01° 38' 23"	LEFT	493.72
UCC-04	216,026.69	3,637,558.44	N 59° 13' 03" E	02° 29' 58"	LEFT	500.00
UCC-05	216,282.58	3,637,988.00	N 59° 13' 03" E	00° 00' 00"	LEFT	500.00
UCC-06	216,538.47	3,638,417.56	N 59° 13' 03" E	00° 00' 00"	RIGHT	500.00
UCC-07	216,794.36	3,638,847.12	N 59° 13' 03" E	00° 00' 00"	LEFT	500.00
UCC-08	217,050.25	3,639,276.68	N 59° 13' 03" E	00° 00' 00"	RIGHT	500.00
UCC-09	217,306.14	3,639,706.23	N 59° 13' 03" E	00° 00' 00"	RIGHT	500.00
UCC-10	217,562.03	3,640,135.79	N 59° 13' 03" E	00° 00' 00"	LEFT	500.00
UCC-11	217,817.92	3,640,565.35	N 60° 39' 32" E	01° 26' 29"	RIGHT	500.16
UCC-12	218,063.00	3,641,001.35	N 62° 36' 20" E	01° 56' 48"	RIGHT	500.88
UCC-13	218,293.46	3,641,446.05	N 61° 49' 50" E	00° 46' 29"	LEFT	500.52
UCC-14	218,529.75	3,641,887.29	N 62° 29' 13" E	00° 39' 23"	RIGHT	500.18
UCC-15	218,760.81	3,642,330.91	N 63° 03' 14" E	00° 34' 01"	RIGHT	250.05
UCC-16	218,874.12	3,642,553.81	N 68° 32' 58" E	05° 29' 44"	RIGHT	1,002.87
UCC-17	219,240.87	3,643,487.22	N 67° 46' 19" E	00° 46' 39"	LEFT	1,252.42
UCC-18	219,714.65	3,644,646.56	N 61° 24' 33" E	06° 21' 46"	LEFT	256.27
UCC-19	219,837.29	3,644,871.58	N 58° 43' 21" E	02° 41' 12"	LEFT	250.36
UCC-20	219,967.27	3,645,085.56	N 58° 43' 25" E	00° 00' 04"	RIGHT	500.73
UCC-21	220,227.23	3,645,513.52	N 58° 43' 25" E	00° 00' 00"	-	500.73
UCC-22	220,487.19	3,645,941.47	N 58° 43' 29" E	00° 00' 04"	RIGHT	751.09
UCC-23	220,877.12	3,646,583.41	N 60° 23' 09" E	01° 39' 40"	RIGHT	250.08
UCC-24	221,000.70	3,646,800.82	N 61° 07' 42" E	00° 44' 32"	RIGHT	255.26
UCC-25	221,123.95	3,647,024.36	N 56° 30' 49" E	04° 36' 53"	LEFT	250.15
UCC-26	221,261.97	3,647,232.99	N 55° 50' 37" E	00° 40' 11"	LEFT	500.13
UCC-27	221,542.77	3,647,646.85	N 55° 45' 20" E	00° 05' 18"	LEFT	500.11
UCC-28	221,824.20	3,648,060.27	N 41° 58' 21" E	13° 46' 59"	LEFT	1,024.53
UCC-29	222,585.90	3,648,745.44	N 45° 40' 21" E	03° 42' 00"	RIGHT	482.61
UCC-30	222,923.12	3,649,090.68	N 46° 37' 20" E	00° 56' 59"	RIGHT	1,000.09
UCC-31	223,609.99	3,649,817.58	N 47° 58' 01" E	01° 20' 41"	RIGHT	1,000.05
UCC-32	224,279.59	3,650,560.38	N 48° 58' 52" E	01° 00' 51"	RIGHT	1,000.39
UCC-33	224,936.15	3,651,315.17	N 52° 09' 39" E	03° 10' 47"	RIGHT	1,026.29
UCC-34	225,565.73	3,652,125.67	N 58° 34' 49" E	06° 25' 10"	RIGHT	1,001.07
UCC-35	226,087.58	3,652,979.95	N 53° 46' 39" E	04° 48' 10"	LEFT	1,008.51
UCC-36	226,683.54	3,653,793.55	N 54° 29' 53" E	00° 43' 14"	RIGHT	968.73
UCC-37	227,246.11	3,654,582.19	N 54° 36' 01" E	00° 06' 09"	RIGHT	1,000.22
UCC-38	227,825.52	3,655,397.50	N 55° 38' 16" E	01° 02' 15"	RIGHT	1,000.00
UCC-39	228,389.94	3,656,222.99	N 55° 08' 01" E	00° 30' 15"	LEFT	995.08
UCC-40	228,958.80	3,657,039.44	N 55° 38' 30" E	00° 30' 29"	RIGHT	1,000.05
UCC-41	229,523.19	3,657,865.00	N 51° 02' 59" E	04° 35' 31"	LEFT	501.25
UCC-42	229,838.30	3,658,254.82				

UPPER BELLE PASS CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT							
PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
UBC-01	000+00	222,181.39	3,639,067.08	S 35° 08' 53" W			500.00
UBC-02	005+00	221,772.55	3,638,779.24	S 58° 51' 40" W	23° 42' 47"	RIGHT	100.00
UBC-03	006+00	221,720.84	3,638,693.64	S 76° 33' 18" W	17° 41' 38"	RIGHT	525.00
UBC-04	011+25	221,598.78	3,638,183.03	S 59° 21' 01" W	17° 12' 18"	LEFT	375.00
UBC-05	015+00	221,407.60	3,637,860.42	S 46° 31' 15" W	12° 49' 45"	LEFT	1,000.00
UBC-06	025+00	220,719.51	3,637,134.79	S 42° 36' 02" W	03° 55' 14"	LEFT	750.00
UBC-07	032+50	220,167.45	3,636,627.13	S 31° 47' 15" W	10° 48' 46"	LEFT	1,000.00
UBC-08	042+50	219,317.44	3,636,100.36	S 20° 50' 25" W	10° 56' 51"	LEFT	1,250.00
UBC-09	055+00	218,149.22	3,635,655.66	S 18° 04' 52" W	02° 45' 32"	LEFT	1,250.00
UBC-10	067+50	216,960.95	3,635,267.70	S 13° 06' 24" W	04° 58' 29"	LEFT	500.00
UBC-11	072+50	216,473.97	3,635,154.32	S 13° 18' 35" E	26° 24' 59"	LEFT	900.00
UBC-12	081+50	215,598.15	3,635,361.51	S 27° 58' 28" E	14° 39' 53"	LEFT	318.30
UBC-13	084+68	215,317.04	3,635,510.82	S 62° 55' 05" E	34° 56' 37"	LEFT	261.83
UBC-14	087+30	215,197.83	3,635,743.95				

UPPER BELLE PASS PUMP-OUT AREA SURVEY BASELINE							
PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
UBB-01	00+00	221,944.14	3,638,124.12	00° 00' 00"			1,700.00
UBB-02	17+00	222,912.53	3,639,521.34				

BEACH CREST LANDWARD ALIGNMENT						
PI NUMBER	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
BCL-01	247,677.35	3,681,913.50	N 57° 49' 39" E	57° 49' 39"	RIGHT	857.88
BCL-02	248,134.15	3,682,639.65	N 57° 49' 39" E	00° 00' 00"	LEFT	1,001.66
BCL-03	248,667.50	3,683,487.51	N 57° 49' 39" E	00° 00' 00"	RIGHT	1,001.66
BCL-04	249,200.86	3,684,335.36	N 55° 38' 51" E	02° 10' 48"	LEFT	1,009.03
BCL-05	249,770.23	3,685,168.39	N 57° 14' 38" E	01° 35' 48"	RIGHT	1,000.03
BCL-06	250,311.31	3,686,009.40	N 57° 52' 00" E	00° 37' 22"	RIGHT	1,000.17
BCL-07	250,843.29	3,686,856.36	N 57° 26' 53" E	00° 25' 07"	LEFT	1,000.06
BCL-08	251,381.39	3,687,699.31	N 59° 48' 02" E	02° 21' 10"	RIGHT	1,001.36
BCL-09	251,885.09	3,688,564.77	N 61° 23' 25" E	01° 35' 22"	RIGHT	1,003.20
BCL-10	252,365.46	3,689,445.49				

STATE OF LOUISIANA
MICHAEL T. POFF
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REV.	DATE	DESCRIPTION	BY

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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

COORDINATE AND ALIGNMENT TABLES

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DATE:MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

CAMINADA HEADLAND RESTORATION AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
HFA-01	000+00	214,821.99	3,635,373.11	N 63° 21' 24" E			2,301.27
HFA-02	023+01	215,853.96	3,637,430.02	N 59° 13' 03" E	04° 08' 21"	LEFT	5,615.56
HFA-03	079+17	218,727.90	3,642,254.44	N 64° 12' 44" E	04° 59' 41"	RIGHT	2,713.32
HFA-04	106+30	219,908.30	3,644,697.55	N 61° 48' 32" E	02° 24' 12"	LEFT	2,410.32
HFA-05	130+40	221,046.97	3,646,821.95	N 54° 32' 03" E	07° 16' 29"	LEFT	2,521.58
HFA-06	155+62	222,510.03	3,648,875.68	N 47° 22' 26" E	07° 09' 37"	LEFT	4,070.09
HFA-07	196+32	225,266.34	3,651,870.40	N 61° 13' 37" E	13° 51' 11"	RIGHT	2,725.66
HFA-08	223+58	226,578.32	3,654,259.53	N 55° 48' 12" E	05° 25' 25"	LEFT	2,883.97
HFA-09	252+42	228,199.22	3,656,644.90	N 55° 05' 34" E	00° 42' 37"	LEFT	4,433.98
HFA-10	296+76	230,736.56	3,660,281.12	N 54° 23' 52" E	00° 41' 42"	LEFT	2,716.22
HFA-11	323+92	232,317.82	3,662,489.62	N 53° 36' 28" E	00° 47' 24"	LEFT	3,699.63
HFA-12	360+92	234,512.85	3,665,467.73	N 52° 00' 46" E	01° 35' 42"	LEFT	5,166.46
HFA-13	412+58	237,692.73	3,669,539.67	N 53° 25' 09" E	01° 24' 23"	RIGHT	5,062.32
HFA-14	463+20	240,709.65	3,673,604.80	N 50° 20' 38" E	03° 04' 31"	LEFT	4,226.69
HFA-15	505+47	243,407.04	3,676,858.88	N 52° 58' 27" E	02° 37' 49"	RIGHT	5,134.34
HFA-16	556+81	246,498.81	3,680,957.95	N 54° 31' 39" E	01° 33' 12"	RIGHT	5,279.52
HFA-17	609+61	249,562.58	3,685,257.56	N 56° 48' 37" E	02° 16' 58"	RIGHT	5,267.24
HFA-18	662+28	252,445.93	3,689,665.52	N 49° 18' 03" E	07° 30' 34"	LEFT	2,120.32
HFA-19	683+49	253,828.56	3,691,273.03				

SOUTH PELTO BORROW AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
SBB-01	00+00	148,362.13	3,510,809.88	N 21° 45' 59" W			4,000.00
SBB-02	40+00	152,076.94	3,509,326.58				

OFFSHORE NO. 1 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O1C-01	00+00	224,697.08	3,662,750.53	N 59° 06' 42" W			2,525.56
O1C-02	25+26	225,993.62	3,660,583.17	N 71° 17' 55" W	12° 11' 13"	LEFT	5,551.70
O1C-03	78+65	227,773.70	3,655,324.59				

OFFSHORE NO. 1 PUMP-OUT AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O1B-01	00+00	223,283.41	3,663,652.76	N 59° 06' 42" W			2,000.00
O1B-02	20+00	224,310.14	3,661,936.42				

OFFSHORE NO. 2 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O2C-01	000+00	232,410.35	3,677,495.39	N 60° 00' 37" W			10,050.34
O2C-02	100+50	237,433.96	3,668,790.63				

OFFSHORE NO.2 PUMP-OUT AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O2B-01	00+00	230,624.65	3,679,036.09	N 72° 47' 35" W			2,500.00
O2B-02	25+00	231,364.21	3,676,647.98				

OFFSHORE NO. 3 CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O3C-01	00+00	236,746.51	3,686,370.97	N 36° 31' 36" W			11,220.00
O3C-02	112+20	245,762.67	3,679,692.85				

OFFSHORE NO.3 PUMP-OUT AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
O3B-01	00+00	230,624.65	3,679,036.09	N 72° 47' 35" W			2,500.00
O3B-02	25+00	231,364.21	3,676,647.98				

LOWER BELLE PASS CONVEYANCE CORRIDOR AND SURVEY BASELINE ALIGNMENT

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
LBC-01	00+00	215,404.16	3,635,050.73	S 79° 16' 38" E			468.27
LBC-02	04+68	215,317.04	3,635,510.82	S 62° 55' 05" E	16° 21' 33"	RIGHT	261.83
LBC-03	07+30	215,197.83	3,635,743.95				

LOWER BELLE PASS PUMP-OUT AREA SURVEY BASELINE

PI NUMBER	STATION	NORTHING	EASTING	BEARING TO NEXT PI	DEFLECTION	DEFLECTION LEFT OR RIGHT	DISTANCE TO NEXT PI
LBB-01	00+00	213,802.29	3,634,366.35	N 10° 32' 09" E			2,200.00
LBB-02	22+00	215,965.20	3,634,768.62				

STATE OF LOUISIANA
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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

COORDINATE AND ALIGNMENT TABLES

STATE PROJECT NUMBER: BA-143

FEDERAL PROJECT NUMBER:

DATE:MARCH 2014

DRAWN BY: STEVE DARTEZ | DESIGNED BY: MICHAEL T. POFF, P.E. | APPROVED BY: CATHERINE RICKS, P.E.

OFFSHORE NO. 1 PUMP-OUT AREA BOUNDARY		
POINT NUMBER	NORTHING	EASTING
O1P-01	224,482.54	3,662,622.19
O1P-02	225,340.71	3,663,135.55
O1P-03	224,827.34	3,663,993.72
O1P-04	223,969.17	3,663,480.36

OFFSHORE NO. 2 PUMP-OUT AREA BOUNDARY		
POINT NUMBER	NORTHING	EASTING
O2P-01	231,693.92	3,677,273.52
O2P-02	233,126.78	3,677,717.26
O2P-03	232,683.04	3,679,150.12
O2P-04	231,250.18	3,678,706.38

OFFSHORE NO. 3 PUMP-OUT AREA BOUNDARY		
POINT NUMBER	NORTHING	EASTING
O3P-01	236,239.07	3,685,685.87
O3P-02	237,131.86	3,686,891.23
O3P-03	235,926.49	3,687,784.03
O3P-04	235,033.70	3,686,578.66

LOWER BELLE PASS PUMP-OUT AREA BOUNDARY		
POINT NUMBER	NORTHING	EASTING
LBP-01	214,224.44	3,634,831.30
LBP-02	215,404.21	3,635,050.70
LBP-03	215,428.00	3,634,922.89
LBP-04	214,248.20	3,634,703.49

UPPER BELLE PASS PUMP-OUT AREA BOUNDARY		
POINT NUMBER	NORTHING	EASTING
UBP-01	222,304.26	3,639,310.15
UBP-02	222,411.15	3,639,236.16
UBP-03	222,024.14	3,638,677.03
UBP-04	221,917.25	3,638,751.02

STATE OF LOUISIANA
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CAMINADA HEADLAND BEACH AND DUNE RESTORATION - INCREMENT II

STATE PROJECT NUMBER: BA-143

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APPROVED BY: CATHERINE RICKS, P.E.

COORDINATE AND ALIGNMENT TABLES

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