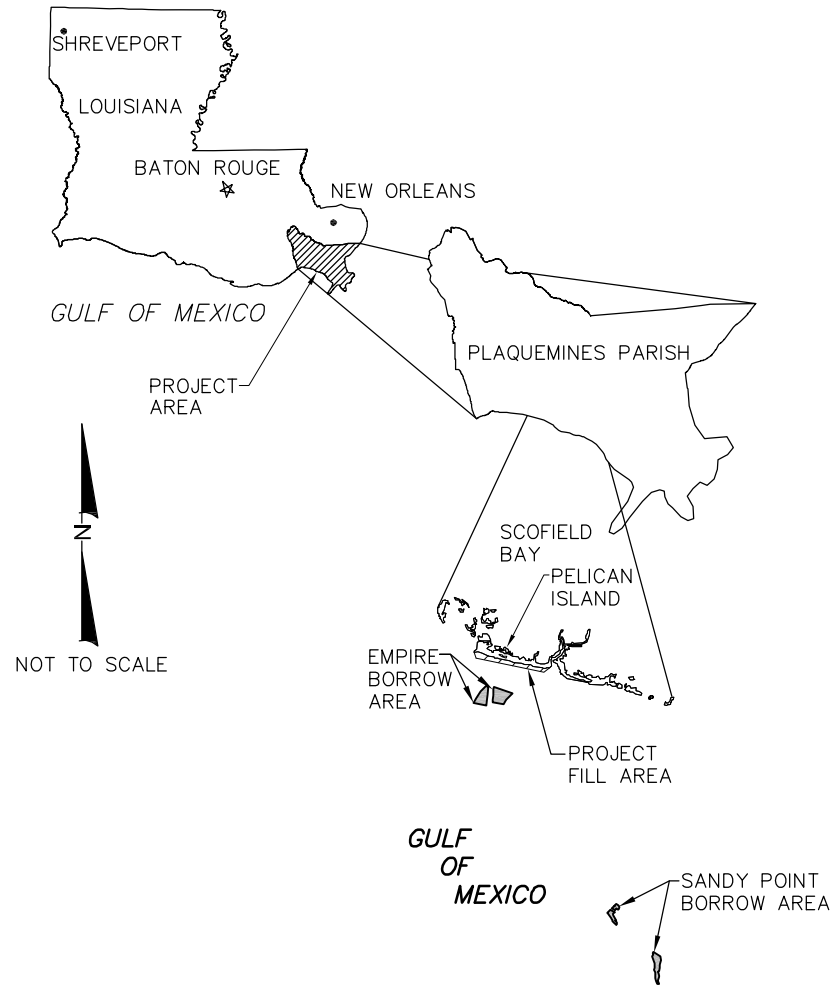
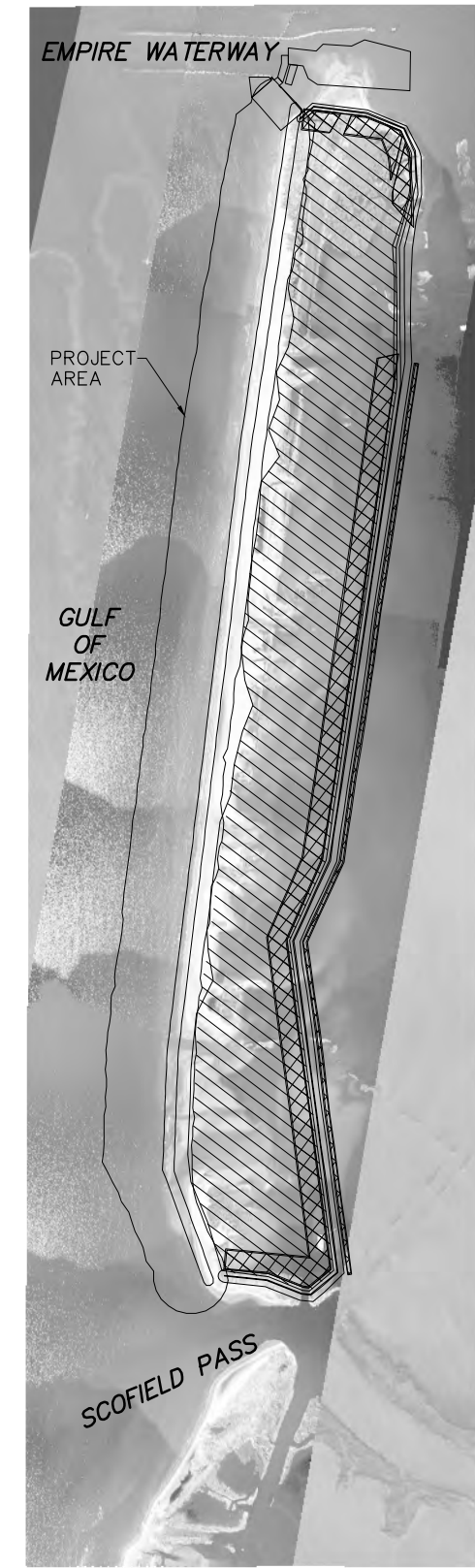
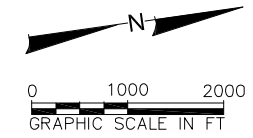


PELICAN ISLAND RESTORATION (BA-38-1) CWPPRA PROJECT



NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES
3	PAY PROFILES PLAN VIEW
4	OFFSHORE INFRASTRUCTURE PLAN VIEW
5-7	PROJECT PLAN VIEWS
8	EMPIRE BORROW AREA
9	EMPIRE BORROW AREA AND PELICAN SPIT DREDGE AREA CROSS SECTIONS
10	SANDY POINT NW BORROW AREA OVERBURDEN CUTS
11	SANDY POINT NW BORROW AREA SAND CUTS
12	SANDY POINT NW BORROW AREA AND DISPOSAL SITE CROSS SECTIONS
13	SANDY POINT SE BORROW AREA OVERBURDEN CUTS
14	SANDY POINT SE BORROW AREA SAND CUTS
15	SANDY POINT SE BORROW AREA AND DISPOSAL SITE CROSS SECTIONS
16-23	BEACH AND MARSH FILL CROSS SECTIONS
24	TYPICAL ACCESS CHANNEL CROSS SECTION, PRIMARY DIKE AND SETTLEMENT PLATE DETAIL
25	SAND FENCE DETAIL
26-28	OIL AND GAS INFRASTRUCTURE
29	EMPIRE WATERWAY JETTY EXTENSION
30	EMPIRE WATERWAY JETTY EXTENSION DETAIL
31	JETTY CROSS SECTIONS



Coastal Planning & Engineering, Inc.
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531



NO.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
1	1/26/04	NOTED PROFILE LINES	GT	AMB
2	1/22/10	FILE TEMPLATE REVISIONS, SECONDARY FILL SOURCE AND JETTY EXTENSION ADDITIONS.	TW	GT
3	12/22/10	UPDATE SHEET INDEX		
4	8/5/11	BEACH FILL QUANTITY INCREASE		AW
5	12/20/11	REVISED JETTY CROSS SECTION AND ACCESS CHANNEL		
6	4/3/12	REVISED JETTY CROSS SECTION AND ACCESS CHANNEL		

PELICAN ISLAND RESTORATION
(BA-38-1)
CWPPRA PROJECT
COVER SHEET

DRAWING NO.
CS
SHEET 1 OF 31

GENERAL NOTES:

1. THE CONTRACTOR SHALL MOBILIZE A VEHICLE CAPABLE OF TRAVERSING THE PROJECT AREA ON A TWICE DAILY BASIS. THIS TASK IS REQUIRED STARTING APRIL 1 REGARDLESS OF THE SCHEDULE FOR MOBILIZATION AND CONSTRUCTION AND MUST CONTINUE THROUGH THE NESTING SEASON OR UNTIL FINAL ACCEPTANCE OF THE PROJECT.
2. LOCATION OF INFRASTRUCTURE (WELLHEADS, PIPELINES, ETC.) ARE FOR INFORMATIONAL PURPOSES ONLY TO DEMONSTRATE COMPLEXITY OF AREA. CONTRACTOR SHALL CONFIRM LOCATIONS WITH THEIR OWN MAGNETOMETER SURVEY AND OTHER INVESTIGATIONS.
3. UPON COMPLETION OF THIS PROJECT, THE PRIMARY DIKES SHALL BE LEFT IN PLACE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PRIMARY DIKES DURING THE PROJECT AND SHALL PREVENT ANY BREACHES OF THE DIKES FOR THE DURATION OF THIS PROJECT.
4. BEACH AND DUNE FILL SHALL NOT EXCEED A SILT CONTENT OF 20% WITH A MINIMUM MEAN GRAIN SIZE OF 0.09 mm AS MEASURED ON THE BEACH FOLLOWING PLACEMENT.
5. COORDINATES ARE IN FEET REFERENCED TO LOUISIANA SOUTH STATE PLANE, NAD 1983.
6. ELEVATIONS ARE IN FEET REFERENCED TO NAVD 1988, GEOID '09.

MARSH PAY PROFILES				
STATION	EASTING	NORTHING	AZIMUTH	PERPENDICULAR DISTANCE TO NEXT STATION
11+51	3831822.8	278729.0	195.1	349.0
15+00	3832159.7	278638.0	195.1	407.9
19+08	3832553.5	278531.7	195.1	292.1
22+00	3832835.5	278455.6	195.1	300.0
25+00	3833125.2	278377.5	195.1	314.7
28+15	3833429.0	278295.5	195.1	285.3
31+00	3833704.5	278221.2	195.1	300.0
34+00	3833994.1	278143.0	195.1	322.3
37+22	3834305.3	278059.0	195.1	277.7
40+00	3834573.4	277986.6	195.1	300.0
43+00	3834863.0	277908.4	195.1	328.9
46+29	3835180.5	277822.7	195.1	271.1
49+00	3835442.3	277752.0	195.1	300.0
52+00	3835731.9	277673.9	195.1	335.7
55+36	3836056.0	277586.4	195.1	264.3
58+00	3836311.2	277517.5	195.1	300.0
61+00	3836600.8	277439.4	195.1	343.3
64+43	3836932.3	277349.9	195.1	256.7
67+00	3837180.1	277283.0	195.1	300.0
70+00	3837469.7	277204.9	195.1	350.4
73+50	3837808.0	277113.6	195.1	249.6
76+00	3838049.0	277048.6	195.1	300.0
79+00	3838338.7	276970.4	195.1	357.7
82+58	3838684.0	276877.2	195.1	342.3
86+00	3839014.5	276788.0	195.1	300.0
89+00	3839304.1	276709.8	195.1	264.3
91+64	3839559.3	276640.9	195.1	335.7
95+00	3839883.4	276553.5	195.1	300.0
98+00	3840173.0	276475.3	195.1	271.4
100+71	3840435.0	276404.6	195.1	228.6
103+00	3840655.7	276345.0	195.1	300.0
106+00	3840945.4	276266.8	195.1	378.7
109+79	3841311.0	276168.1	195.1	321.3
113+00	3841621.2	276084.4	195.1	300.0
116+00	3841910.8	276006.2	195.1	286.1
118+86	3842187.0	275931.7	195.1	313.9
122+00	3842490.1	275849.9	195.1	300.0
125+00	3842779.7	275771.7	195.1	292.9
127+93	3843062.5	275695.4	195.1	407.1
132+00	3843455.5	275589.3	195.1	361.4
135+61	3843804.5	275495.1	195.1	

BENCHMARK CONTROL POINT			
MONUMENT	EASTING	NORTHING	ELEVATION
SCOFIELD 2	3832299.8	278985.6	4.475

BASELINE BEND POINTS		
BEND POINT	EASTING	NORTHING
P.O.B.	3830711.6	279029.0
P.O.E.	3844324.4	275354.7

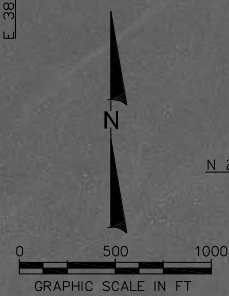
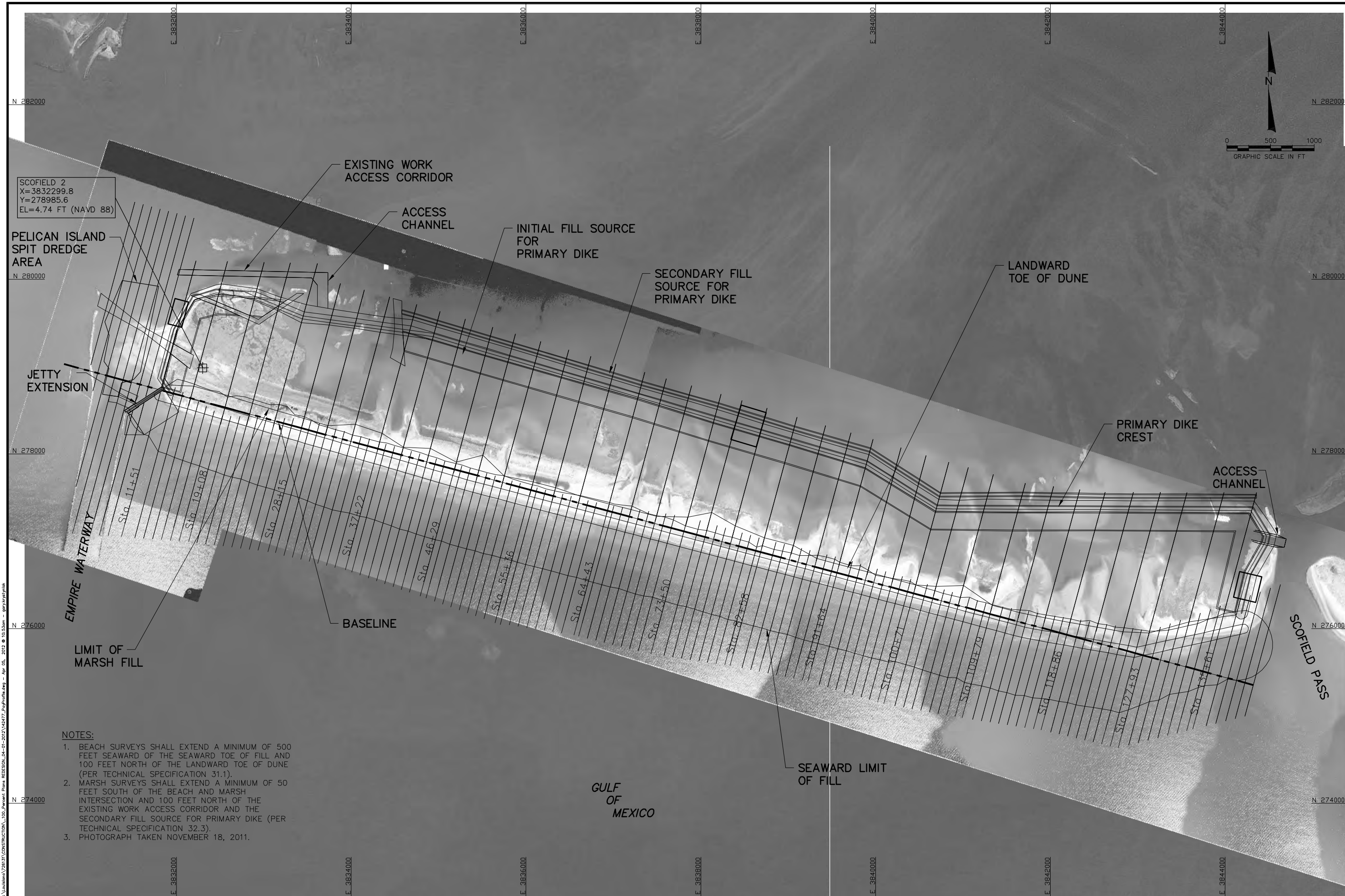
TIDAL DATUMS AT GRAND ISLE, LOUISIANA	
TIDAL DATUM	ELEVATION
MEAN HIGHER HIGH WATER (MHHW)	1.60
MEAN HIGH WATER (MHW)	1.60
MEAN SEA LEVEL (MSL)	1.08
MEAN TIDE LEVEL (MTL)	1.08
MEAN LOW WATER (MLW)	0.55
MEAN LOWER LOW WATER (MLLW)	0.54

SOURCE:
<http://www.co-ops.nos.noaa.gov/benchmarks/8761724.html>

BEACH PAY PROFILES				
STATION	EASTING	NORTHING	AZIMUTH	PERPENDICULAR DISTANCE TO NEXT STATION
8+00	3831483.9	278820.5	195.1	100.0
9+00	3831580.5	278794.4	195.1	100.0
10+00	3831677.0	278768.4	195.1	151.0
11+51	3831822.8	278729.0	195.1	149.0
13+00	3831966.6	278690.2	195.1	100.0
14+00	3832063.2	278664.1	195.1	100.0
15+00	3832159.7	278638.0	195.1	100.0
16+00	3832256.3	278612.0	195.1	100.0
17+00	3832352.8	278585.9	195.1	100.0
18+00	3832449.4	278559.8	195.1	107.9
19+08	3832553.5	278531.7	195.1	92.1
20+00	3832642.5	278507.7	195.1	100.0
21+00	3832739.0	278481.7	195.1	100.0
22+00	3832835.5	278455.6	195.1	100.0
23+00	3832932.1	278429.6	195.1	100.0
24+00	3833028.6	278403.5	195.1	100.0
25+00	3833125.2	278377.5	195.1	100.0
26+00	3833221.7	278351.4	195.1	100.0
27+00	3833318.3	278325.4	195.1	114.7
28+15	3833429.0	278295.5	195.1	85.3
29+00	3833511.4	278273.3	195.1	100.0
30+00	3833607.9	278247.2	195.1	100.0
31+00	3833704.5	278221.2	195.1	100.0
32+00	3833801.0	278195.1	195.1	100.0
33+00	3833897.6	278169.0	195.1	100.0
34+00	3833994.1	278143.0	195.1	100.0
35+00	3834090.7	278116.9	195.1	100.0
36+00	3834187.2	278090.9	195.1	122.3
37+22	3834305.3	278059.0	195.1	77.7
38+00	3834380.3	278038.8	195.1	100.0
39+00	3834476.8	278012.7	195.1	100.0
40+00	3834573.4	277986.6	195.1	100.0
41+00	3834669.9	277960.6	195.1	100.0
42+00	3834766.5	277934.5	195.1	100.0
43+00	3834863.0	277908.4	195.1	100.0
44+00	3834959.5	277882.4	195.1	100.0
45+00	3835056.1	277856.3	195.1	128.9
46+29	3835180.5	277822.7	195.1	71.1
47+00	3835249.2	277804.2	195.1	100.0
48+00	3835345.7	277778.1	195.1	100.0
49+00	3835442.3	277752.0	195.1	100.0
50+00	3835538.8	277726.0	195.1	100.0
51+00	3835635.4	277699.9	195.1	100.0
52+00	3835731.9	277673.9	195.1	100.0
53+00	3835828.5	277647.8	195.1	100.0
54+00	3835925.0	277621.8	195.1	135.7
55+36	3836056.0	277586.4	195.1	64.3
56+00	3836118.1	277569.6	195.1	100.0
57+00	3836214.6	277543.6	195.1	100.0
58+00	3836311.2	277517.5	195.1	100.0
59+00	3836407.7	277491.5	195.1	100.0
60+00	3836504.3	277465.4	195.1	100.0
61+00	3836600.8	277439.4	195.1	100.0
62+00	3836697.4	277413.3	195.1	100.0
63+00	3836793.9	277387.3	195.1	143.3
64+43	3836932.3	277349.9	195.1	56.7
65+00	3836987.0	277335.1	195.1	100.0
66+00	3837083.5	277309.1	195.1	100.0
67+00	3837180.1	277283.0	195.1	100.0
68+00	3837276.6	277257.0	195.1	100.0
69+00	3837373.2	277230.9	195.1	100.0
70+00	3837469.7	277204.9	195.1	100.0
71+00	3837566.3	277178.8	195.1	100.0
72+00	3837662.8	277152.8	195.1	150.4
73+50	3837808.0	277113.6	195.1	149.6
75+00	3837952.5	277074.6	195.1	100.0

BEACH PAY PROFILES (CONTINUED)				
STATION	EASTING	NORTHING	AZIMUTH	PERPENDICULAR DISTANCE TO NEXT STATION
76+00	3838049.0	277048.6	195.1	100.0
77+00	3838145.6	277022.5	195.1	100.0
78+00	3838242.1	276996.5	195.1	100.0
79+00	3838338.7	276970.4	195.1	100.0
80+00	3838435.2	276944.3	195.1	100.0
81+00	3838531.7	276918.3	195.1	100.0
82+00	3838628.3	276892.2	195.1	57.7
82+58	3838684.0	276877.2	195.1	142.3
84+00	3838821.4	276840.1	195.1	100.0
85+00	3838917.9	276814.0	195.1	100.0
86+00	3839014.5	276788.0	195.1	100.0
87+00	3839111.0	276761.9	195.1	100.0
88+00	3839207.6	276735.9	195.1	100.0
89+00	3839304.1	276709.8	195.1	100.0
90+00	3839400.6	276683.7	195.1	100.0
91+00	3839497.2	276657.7	195.1	64.3
91+64	3839593.7	276640.9	195.1	135.7
93+00	3839690.3	276605.6	195.1	100.0
94+00	3839786.8	276579.5	195.1	100.0
95+00	3839883.4	276553.5	195.1	100.0
96+00	3839979.9	276527.4	195.1	100.0
97+00	3840076.5	276501.3	195.1	100.0
98+00	3840173.0	276475.3	195.1	100.0
99+00	3840269.6	276449.2	195.1	100.0
100+00	3840366.1	276423.2	195.1	71.4
100+71	3840435.0	276404.6	195.1	128.6
102+00	3840559.2	276371.1	195.1	100.0
103+00	3840655.7	276345.0	195.1	100.0
104+00	3840752.3	276318.9	195.1	100.0
105+00	3840848.8	276292.9	195.1	100.0
106+00	3840945.4	276266.8	195.1	100.0
107+00	3841041.9	276240.7	195.1	100.0
108+00	3841138.5	276214.7	195.1	100.0
109+00	3841235.0	276188.6	195.1	78.7
109+79	3841311.0	276168.1	195.1	121.3
111+00	3841428.1	276136.5	195.1	100.0
112+00	3841524.6	276110.4	195.1	100.0
113+00	3841621.2	276084.4	195.1	100.0
114+00	3841717.7	276058.3	195.1	100.0
115+00	3841814.3	276032.3	195.1	100.0
116+00	3841910.8	276006.2	195.1	100.0
117+00	3842007.4	275980.2	195.1	100.0
118+00	3842103.9	275954.1	195.1	86.1
118+86	3842187.0	275931.7	195.1	113.9
120+00	3842297.0	275902.0	195.1	100.0
121+00	3842393.5	275876.0	195.1	100.0
122+00	3842490.1	275849.9	195.1	100.0
123+00	3842586.6	275823.8	195.1	100.0
124+00	3842683.2	275797.7	195.1	100.0
125+00	3842779.7	275771.7	195.1	100.0
126+00	3842876.3	275745.7	195.1	100.0
127+00	3842972.8	275719.6	195.1	92.9
127+93	3843062.5	275695.4	195.1	107.1
129+00	3843165.9	275667.5	195.1	100.0
130+00	3843262.5	275641.4	195.1	100.0
131+00	3843359.0	275615.4	195.1	100.0
132+00	3843455.5	275589.3	195.1	100.0
133+00	3843552.1	275563.2	195.1	100.0
134+00	3843648.6	275537.2	195.1	100.0
135+00	3843745.2	275511.1	195.1	61.4
135+61	3843804.5	275495.1	195.1	138.6
137+00	3843938.3	275459.0	195.1	100.0
138+00	3844034.8	275432.9	195.1	100.0
139+00	3844131.4	275406.9	195.1	100.0
140+00	3844227.9	275380.8	195.1	100.0
141+00	3844324.4	275354.7	195.1	

COASTAL PLANNING & ENGINEERING, INC.
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028



SCOFIELD 2
 X=3832299.8
 Y=278985.6
 EL=4.74 FT (NAVD 88)

- NOTES:**
1. BEACH SURVEYS SHALL EXTEND A MINIMUM OF 500 FEET SEAWARD OF THE SEAWARD TOE OF FILL AND 100 FEET NORTH OF THE LANDWARD TOE OF DUNE (PER TECHNICAL SPECIFICATION 31.1).
 2. MARSH SURVEYS SHALL EXTEND A MINIMUM OF 50 FEET SOUTH OF THE BEACH AND MARSH INTERSECTION AND 100 FEET NORTH OF THE EXISTING WORK ACCESS CORRIDOR AND THE SECONDARY FILL SOURCE FOR PRIMARY DIKE (PER TECHNICAL SPECIFICATION 32.3).
 3. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net

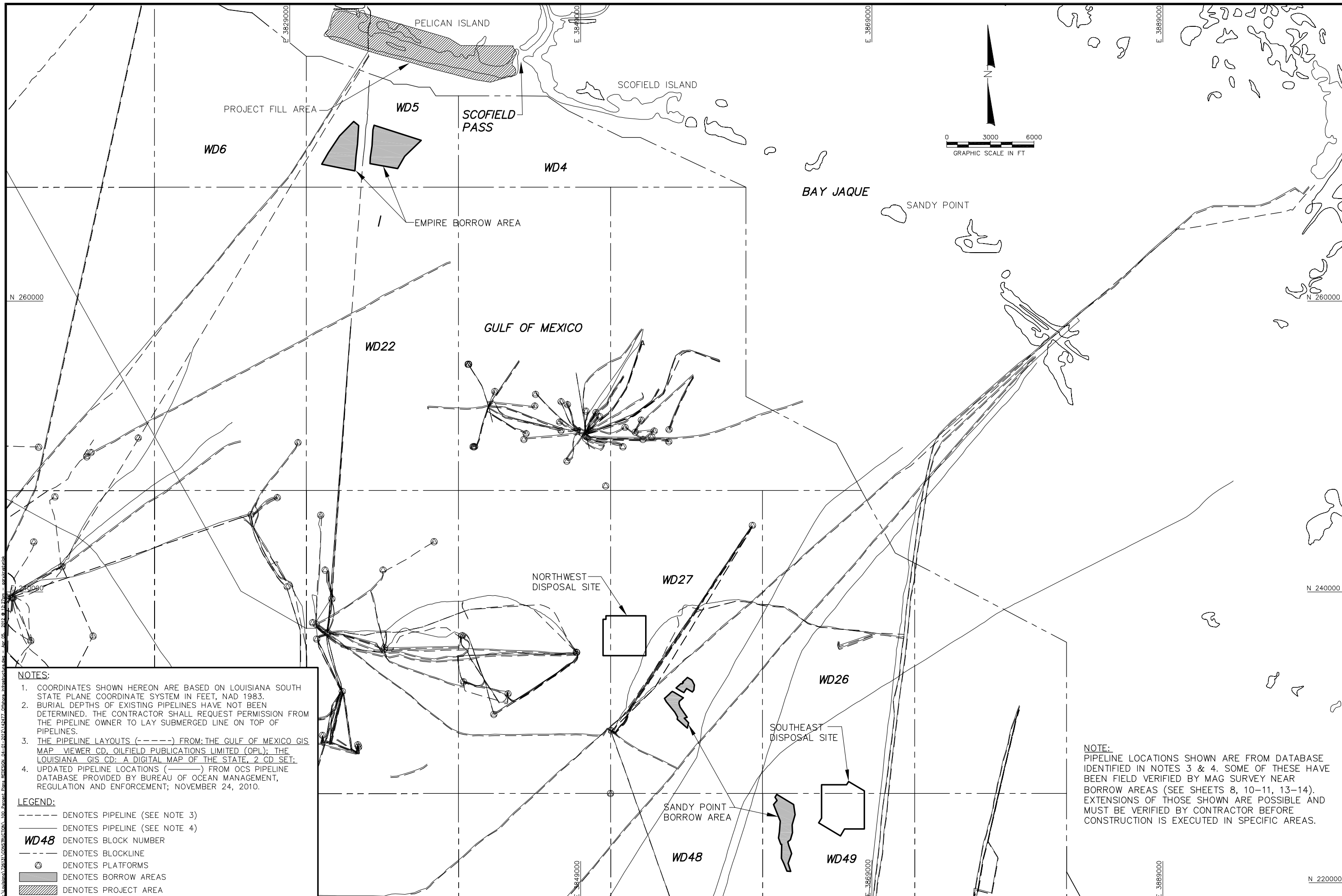


Reference Files:	Checked by:	11/12/10	REVISION PAY PROFILES
Designed by:	Reviewed by:	12/8/10	REVISION NOTES AND STATION LABELS
Drawn by:	Submitted by:	8/3/11	BEACH PAY PROFILE LINE EXTENSION
Date:	AW	12/20/11	REVISION JETTY CROSS SECTION AND ACCESS CHANNEL
Plot Scale:	Comm. No.:	4/3/12	PAV. #7 AND #8
PAS NOTED	142477		

Reference Files:	Checked by:	GT	AMB
Designed by:	Reviewed by:	TM	GT
Date:	Submitted by:	10/8/2007	AW
Plot Scale:	Comm. No.:	PAS NOTED	142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 PAY PROFILES
 PLAN VIEW

DRAWING NO.
 PP-1
 SHEET 3 OF 31



- NOTES:**
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 2. BURIAL DEPTHS OF EXISTING PIPELINES HAVE NOT BEEN DETERMINED. THE CONTRACTOR SHALL REQUEST PERMISSION FROM THE PIPELINE OWNER TO LAY SUBMERGED LINE ON TOP OF PIPELINES.
 3. THE PIPELINE LAYOUTS (-----) FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET.
 4. UPDATED PIPELINE LOCATIONS (——) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.

- LEGEND:**
- DENOTES PIPELINE (SEE NOTE 3)
 - DENOTES PIPELINE (SEE NOTE 4)
 - WD48** DENOTES BLOCK NUMBER
 - DENOTES BLOCKLINE
 - ⊙ DENOTES PLATFORMS
 - ▭ DENOTES BORROW AREAS
 - ▨ DENOTES PROJECT AREA

NOTE:
PIPELINE LOCATIONS SHOWN ARE FROM DATABASE IDENTIFIED IN NOTES 3 & 4. SOME OF THESE HAVE BEEN FIELD VERIFIED BY MAG SURVEY NEAR BORROW AREAS (SEE SHEETS 8, 10-11, 13-14). EXTENSIONS OF THOSE SHOWN ARE POSSIBLE AND MUST BE VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION IS EXECUTED IN SPECIFIC AREAS.

COASTAL PLANNING & ENGINEERING, INC.
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 www.CoastalPlanning.net

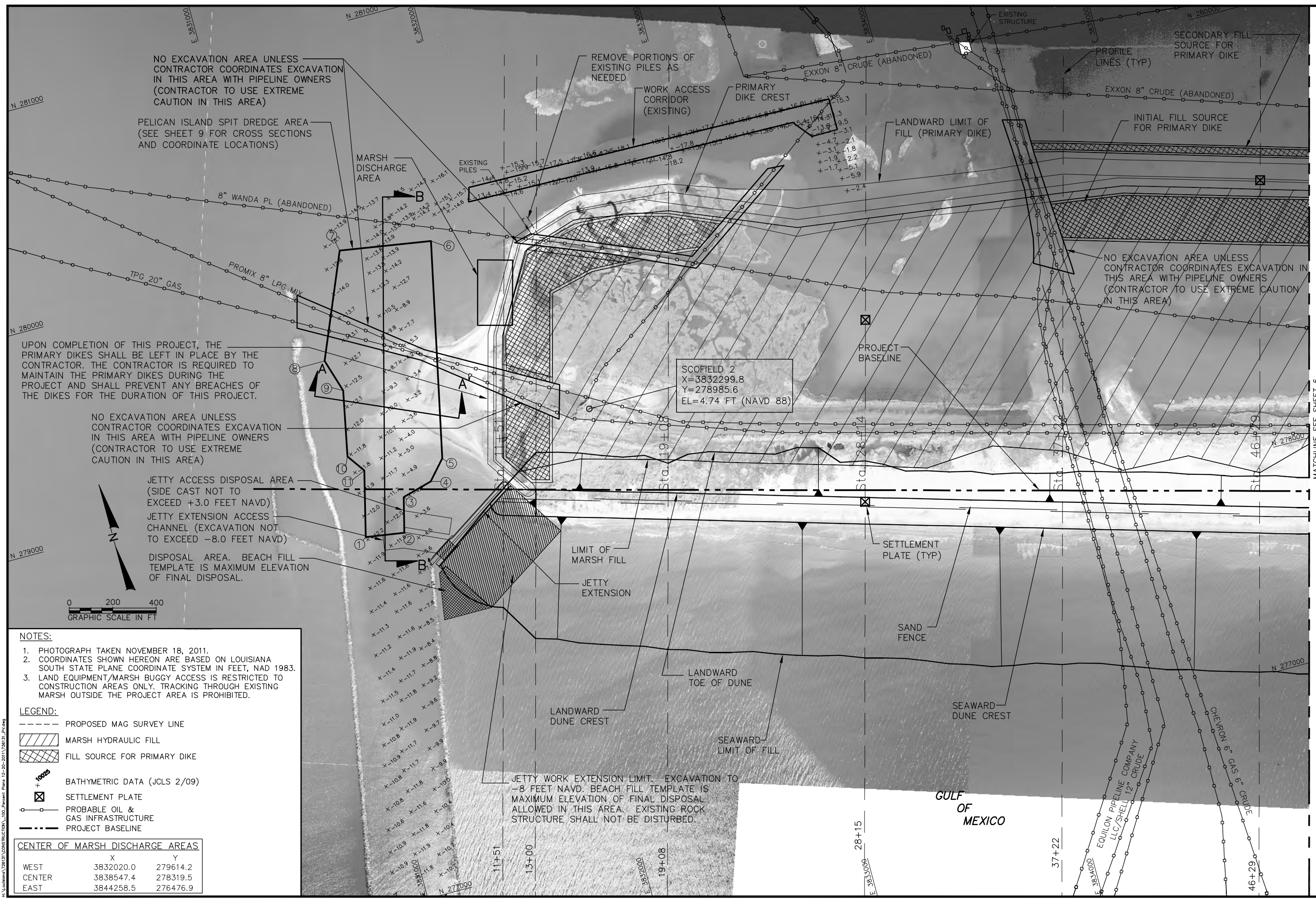


Reference Files:	11/22/10 REVISE FILL FOOTPRINT	Checked by:	AMB
	12/8/10 UPDATE PIPELINES AND ADD'D BEHAVING SITE	Reviewed by:	GT
	8/2/11 BEACH FILL QUANTITY INCREASE	Submitted by:	AW
	4/2/12 FEA, #7, AND #8	Comm. No.:	142477

Designed by:	GT
Drawn by:	TW
Date:	10/8/2007
Plot Scale:	AS NOTED

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 OFFSHORE INFRASTRUCTURE
 PLAN VIEW

DRAWING NO.
LO-1
 SHEET 4 OF 31



NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

PELICAN ISLAND SPIT DREDGE AREA (SEE SHEET 9 FOR CROSS SECTIONS AND COORDINATE LOCATIONS)

MARSH DISCHARGE AREA

REMOVE PORTIONS OF EXISTING PILES AS NEEDED
WORK ACCESS CORRIDOR (EXISTING)

PRIMARY DIKE CREST

LANDWARD LIMIT OF FILL (PRIMARY DIKE)

EXISTING STRUCTURE
PROFILE LINES (TYP)

EXXON 8" CRUDE (ABANDONED)

INITIAL FILL SOURCE FOR PRIMARY DIKE

NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

UPON COMPLETION OF THIS PROJECT, THE PRIMARY DIKES SHALL BE LEFT IN PLACE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PRIMARY DIKES DURING THE PROJECT AND SHALL PREVENT ANY BREACHES OF THE DIKES FOR THE DURATION OF THIS PROJECT.

NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

JETTY ACCESS DISPOSAL AREA (SIDE CAST NOT TO EXCEED +3.0 FEET NAVD)

JETTY EXTENSION ACCESS CHANNEL (EXCAVATION NOT TO EXCEED -8.0 FEET NAVD)

DISPOSAL AREA. BEACH FILL TEMPLATE IS MAXIMUM ELEVATION OF FINAL DISPOSAL.

SCOFIELD 2
X=3832299.8
Y=278985.6
EL=4.74 FT (NAVD 88)

PROJECT BASELINE

LIMIT OF MARSH FILL

JETTY EXTENSION

SETTLEMENT PLATE (TYP)

SAND FENCE

LANDWARD TOE OF DUNE

LANDWARD DUNE CREST

SEAWARD LIMIT OF FILL

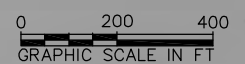
SEAWARD DUNE CREST

JETTY WORK EXTENSION LIMIT. EXCAVATION TO -8 FEET NAVD. BEACH FILL TEMPLATE IS MAXIMUM ELEVATION OF FINAL DISPOSAL ALLOWED IN THIS AREA. EXISTING ROCK STRUCTURE SHALL NOT BE DISTURBED.

GULF OF MEXICO

EQUILON PIPELINE COMPANY
LLC/SHELL 12" CRUDE

CHEVRON 6" GAS 6" CRUDE



- NOTES:**
- PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 - COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 - LAND EQUIPMENT/MARSH BUGGY ACCESS IS RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.

- LEGEND:**
- PROPOSED MAG SURVEY LINE
 - MARSH HYDRAULIC FILL
 - FILL SOURCE FOR PRIMARY DIKE
 - BATHYMETRIC DATA (JCLS 2/09)
 - SETTLEMENT PLATE
 - PROBABLE OIL & GAS INFRASTRUCTURE
 - PROJECT BASELINE

CENTER OF MARSH DISCHARGE AREAS

	X	Y
WEST	3832020.0	279614.2
CENTER	3838547.4	278319.5
EAST	3844258.5	276476.9

MATCHLINE SEE SHEET 6

COASTAL PLANNING & ENGINEERING, INC.
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
PH. (561) 391-8102
FAX (561) 391-9116
C.O.A. FL #4028
C.O.A. LA #2531
www.CoastalPlanning.net



Reference Files:	Designed by:	Checked by:
1. 3/28/04 ADDED PROFILE LINES	GT	AMB
2. 2/28/09 REVISED CONSTRUCTION DESIGN	TW	GT
3. 11/12/10 REVISED FILL DESIGN TEMPLATE, ADDED JETTY EXTENSION AND SECONDARY FILL SOURCE	GT	GT
4. 12/8/10 ADDED MARSH DISCHARGE AREAS AND MOVED SETTLEMENT PLATE	AW	AW
5. 8/20/11 BEACH FILL QUANTITY INCREASE	AW	AW
6. 12/20/11 REVISED JETTY CROSS SECTION	AW	AW
7. 4/23/12 FAX #8, #7 AND #8	AW	AW

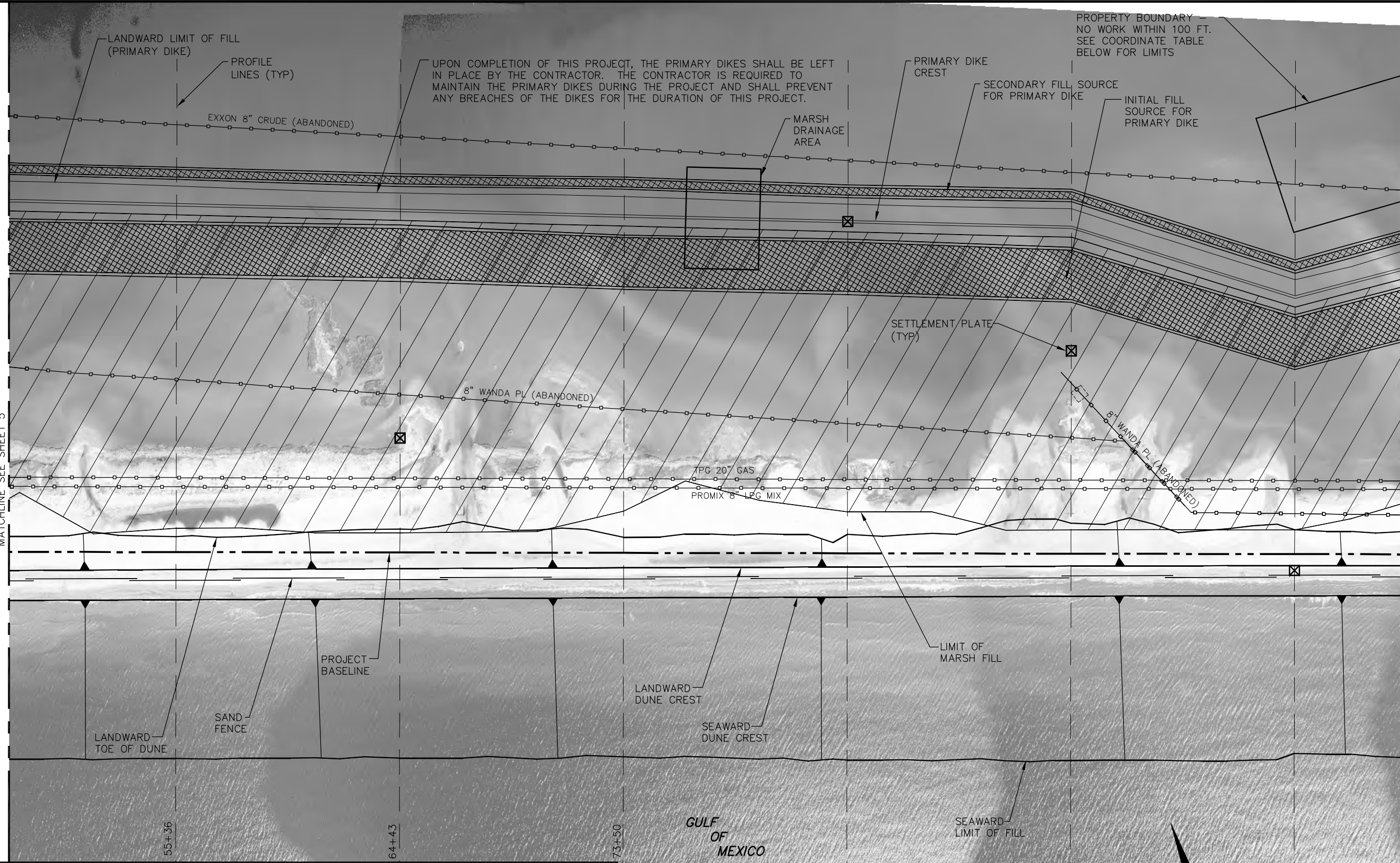
Drawn by:	Date:	Project No.:
TW	10/8/2007	142477
GT	10/8/2007	142477
AW	10/8/2007	142477
AW	10/8/2007	142477

PELICAN ISLAND RESTORATION (BA-38-1)
CWPRA PROJECT
PROJECT PLAN VIEW
DRAWING NO. PV-1
SHEET 5 OF 31

H:\Users\j26131\Documents\CONSTRUCTION\100_Permit Plans 12-20-2011\26131_PV.dwg

MATCHLINE SEE SHEET 5

MATCHLINE SEE SHEET 7



- NOTES:**
1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. LAND EQUIPMENT/MARSH BUGGY ACCESS IS RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING OUTSIDE THE PROJECT AREA IS PROHIBITED.

LEGEND:

	MARSH HYDRAULIC FILL
	FILL SOURCE FOR PRIMARY DIKE
	BATHYMETRIC DATA (JCLS 2/09)
	SETTLEMENT PLATE
	PROBABLE OIL & GAS INFRASTRUCTURE
	PROJECT BASELINE

PROPERTY BOUNDARY COORD TABLE

	X	Y
NW CORNER	3840741.1	278151.9
NE CORNER	3847129.6	278305.9
SE CORNER	3847130.7	277774.1
SW CORNER	3840770.1	277666.0

CENTER OF MARSH DISCHARGE AREAS

	X	Y
WEST	3832020.0	279614.2
CENTER	3838547.4	278319.5
EAST	3844258.5	276476.9



COASTAL PLANNING & ENGINEERING, INC.
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531



1	3/28/04	ADDED PROFILE LINES	Checked by:	AMB
2	2/28/09	REVISED CONSTRUCTION DESIGN	Reviewed by:	GT
3	11/12/10	REVISED FILL DESIGN TEMPLATE, ADDED JETTY EXTENSION AND SECONDARY FILL SOURCE	Submitted by:	AW
4	12/8/10	ADDED MARSH DISCHARGE AREAS	Date:	10/8/2007
5	8/3/11	REVIS MARSH DISCHARGE AREAS	Proj. Scale:	PAS NOTED
6	4/3/12	FAX #, #7 AND #8	Comm. No.:	142477

Reference Files:
 B:\Projects\100_Permit Plans 12-20-2011\26131_PV.dwg

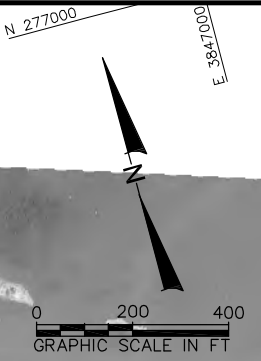
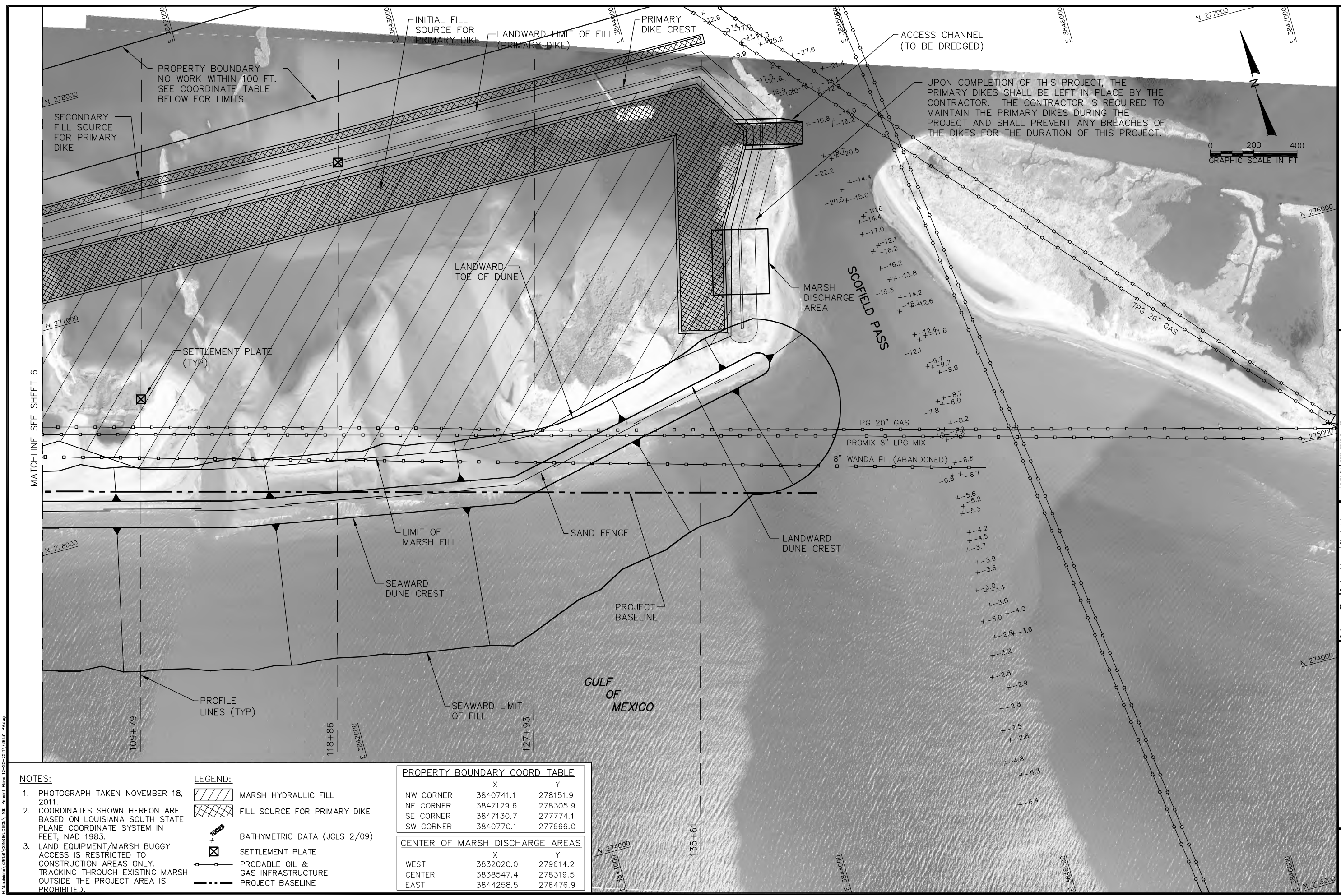
DESIGNED BY: GT
 DRAWN BY: TW
 DATE: 10/8/2007
 PROJECT SCALE: PAS NOTED

Reference Files:
 B:\Projects\100_Permit Plans 12-20-2011\26131_PV.dwg

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 PROJECT PLAN VIEW

DRAWING NO.
PV-2

SHEET 6 OF 31



COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



1	3/28/04	ADDED PROFILE LINES	Checked by:	AMB
2	2/28/09	REVISED CONSTRUCTION DESIGN	Reviewed by:	GT
3	11/12/10	REVISED FILL DESIGN TEMPLATE, ADDED JETTY EXTENSION AND SECONDARY FILL SOURCE	Submitted by:	AW
4	12/8/10	ADDED MARSH DISCHARGE AREAS	Date:	10/8/2007
5	8/3/11	REVISOR MARSH DISCHARGE AREAS	Plot Scale:	PAS NOTED
6	12/20/11	REVISED ACCESS CHANNEL	Comm. No.:	142477
	4/3/12	REVISED ACCESS CHANNEL		

Designed by:	GT
Drawn by:	TW
Date:	10/8/2007
Plot Scale:	PAS NOTED

Reference Files:
 B:\PROJECTS\12-20-2011\126131_PV.dwg

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 PROJECT PLAN VIEW

DRAWING NO.
 PV-3

SHEET 7 OF 31

- NOTES:**
1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. LAND EQUIPMENT/MARSH BUGGY ACCESS IS RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.

LEGEND:

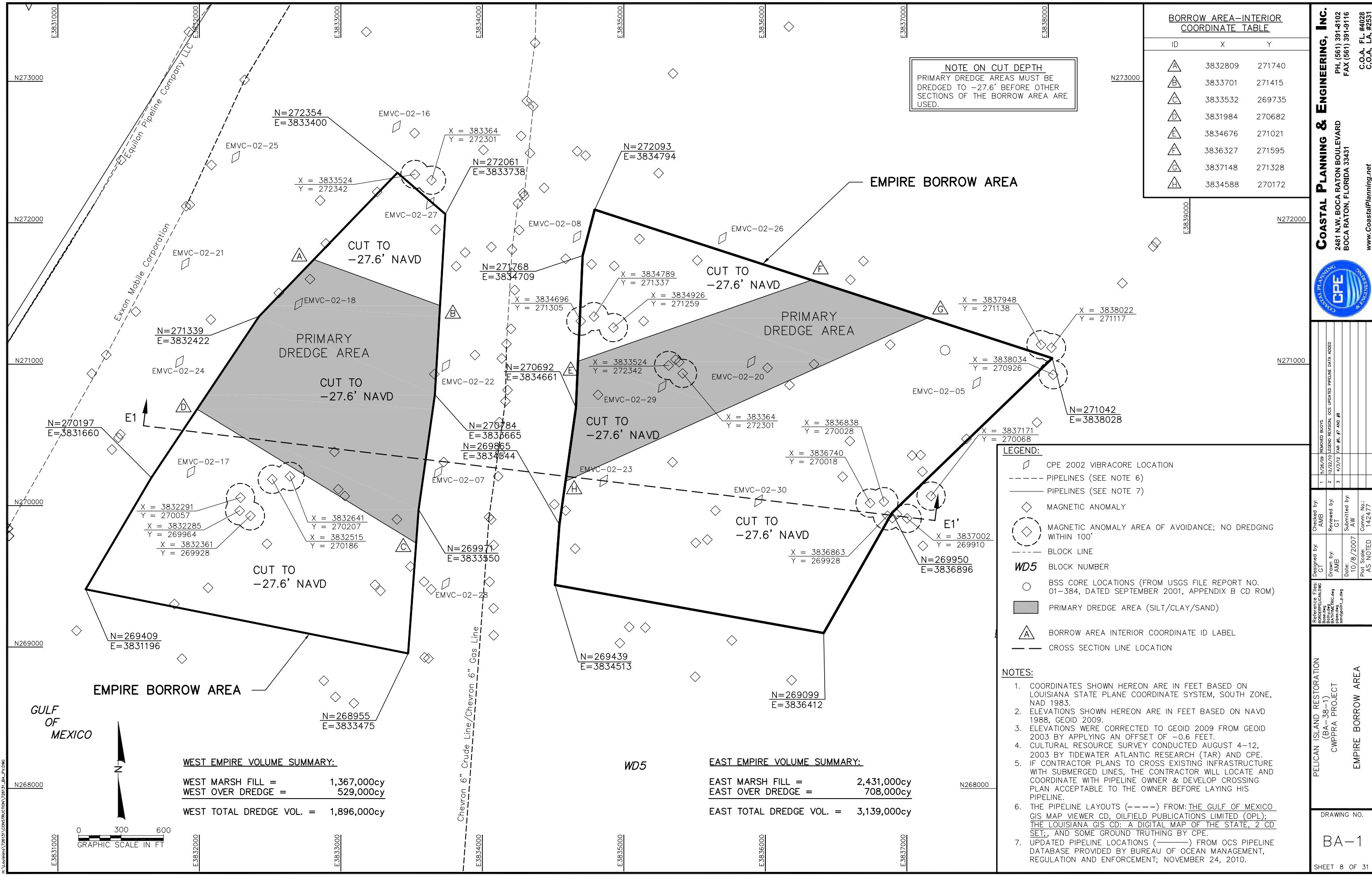
	MARSH HYDRAULIC FILL
	FILL SOURCE FOR PRIMARY DIKE
	BATHYMETRIC DATA (JCLS 2/09)
	SETTLEMENT PLATE
	PROBABLE OIL & GAS INFRASTRUCTURE
	PROJECT BASELINE

PROPERTY BOUNDARY COORD TABLE

	X	Y
NW CORNER	3840741.1	278151.9
NE CORNER	3847129.6	278305.9
SE CORNER	3847130.7	277774.1
SW CORNER	3840770.1	277666.0

CENTER OF MARSH DISCHARGE AREAS

	X	Y
WEST	3832020.0	279614.2
CENTER	3838547.4	278319.5
EAST	3844258.5	276476.9



NOTE ON CUT DEPTH
 PRIMARY DREDGE AREAS MUST BE DREDGED TO -27.6' BEFORE OTHER SECTIONS OF THE BORROW AREA ARE USED.

BORROW AREA-INTERIOR COORDINATE TABLE		
ID	X	Y
A	3832809	271740
B	3833701	271415
C	3833532	269735
D	3831984	270682
E	3834676	271021
F	3836327	271595
G	3837148	271328
H	3834588	270172

- LEGEND:**
- CPE 2002 VIBRACORE LOCATION
 - PIPELINES (SEE NOTE 6)
 - PIPELINES (SEE NOTE 7)
 - MAGNETIC ANOMALY
 - MAGNETIC ANOMALY AREA OF AVOIDANCE; NO DREDGING WITHIN 100'
 - BLOCK LINE
 - WD5** BLOCK NUMBER
 - BSS CORE LOCATIONS (FROM USGS FILE REPORT NO. 01-384, DATED SEPTEMBER 2001, APPENDIX B CD ROM)
 - PRIMARY DREDGE AREA (SILT/CLAY/SAND)
 - BORROW AREA INTERIOR COORDINATE ID LABEL
 - CROSS SECTION LINE LOCATION

- NOTES:**
- COORDINATES SHOWN HEREON ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.
 - ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
 - ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
 - CULTURAL RESOURCE SURVEY CONDUCTED AUGUST 4-12, 2003 BY TIDEWATER ATLANTIC RESEARCH (TAR) AND CPE.
 - IF CONTRACTOR PLANS TO CROSS EXISTING INFRASTRUCTURE WITH SUBMERGED LINES, THE CONTRACTOR WILL LOCATE AND COORDINATE WITH PIPELINE OWNER & DEVELOP CROSSING PLAN ACCEPTABLE TO THE OWNER BEFORE LAYING HIS PIPELINE.
 - THE PIPELINE LAYOUTS (----) FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND SOME GROUND TRUTHING BY CPE.
 - UPDATED PIPELINE LOCATIONS (——) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.

WEST EMPIRE VOLUME SUMMARY:

WEST MARSH FILL = 1,367,000cy
 WEST OVER DREDGE = 529,000cy
 WEST TOTAL DREDGE VOL. = 1,896,000cy

EAST EMPIRE VOLUME SUMMARY:

EAST MARSH FILL = 2,431,000cy
 EAST OVER DREDGE = 708,000cy
 EAST TOTAL DREDGE VOL. = 3,139,000cy

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL.#4028
 C.O.A. LA.#2531
 www.CoastalPlanning.net



DESIGNED BY	CHECKED BY	DATE
GT	AMB	10/8/2007
Drawn by:	Reviewed by:	Submitted by:
AMB	GT	AW
Date:	10/8/2007	Comm. No.:
10/8/2007	142477	AS NOTED





REVISION	DATE	DESCRIPTION
1	10/26/09	REMOVED REVISIONS
2	11/22/10	LEGEND REVISION: OCS UPDATED PIPELINE DATA ADDED
3	4/3/12	PAR #7 AND #8

PELICAN ISLAND RESTORATION (BA-38-1) CWP/PPA PROJECT
 EMPIRE BORROW AREA
 DRAWING NO. BA-1
 SHEET 8 OF 31

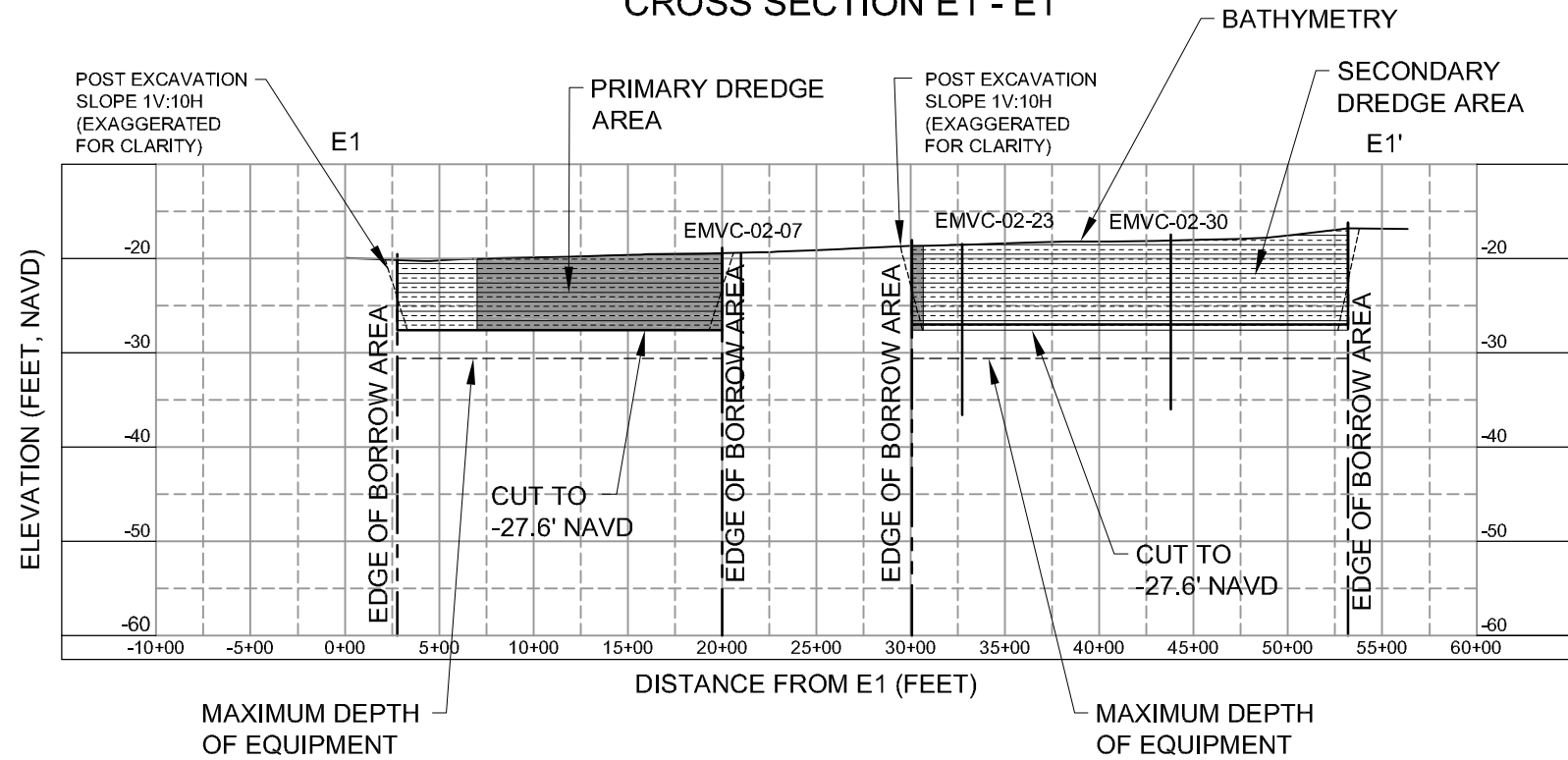
NOTES:

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE.
2. VERTICAL THICKNESS OF LAYERS IS REPRESENTATIVE ONLY. ACTUAL MATERIAL MAY VARY.
3. SEE SHEET 8 FOR LOCATION OF CROSS SECTION LINE.
4. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 88, GEOID 2009.
5. DATE OF BATHYMETRIC, SEISMIC, SIDE SCAN SONAR, AND MAGNETOMETER SURVEY: MAY 20-25TH, 2003 CONDUCTED BY CPE. ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
6. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

-  SILT/CLAY/SAND (PRIMARY DREDGE AREA)
-  SILT/CLAY/SAND (SECONDARY DREDGE AREA)
-  DREDGE CUTS
-  MAXIMUM DEPTH OF EQUIPMENT

**EMPIRE BORROW AREA
CROSS SECTION E1 - E1'**

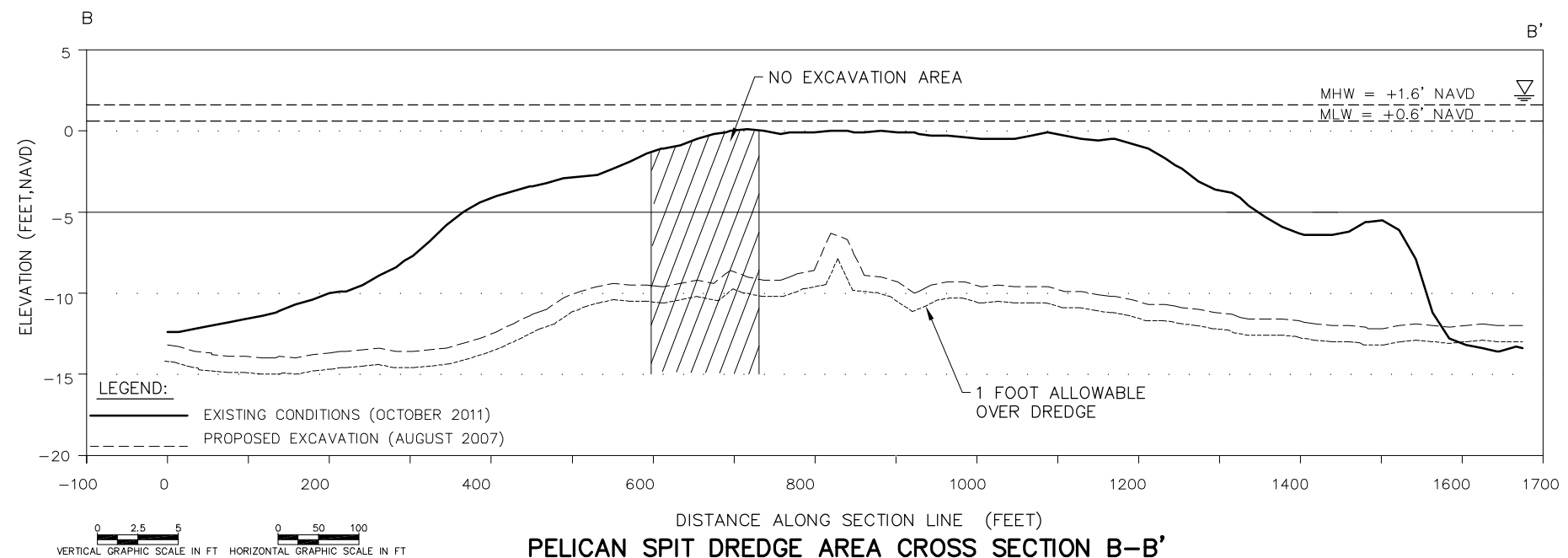
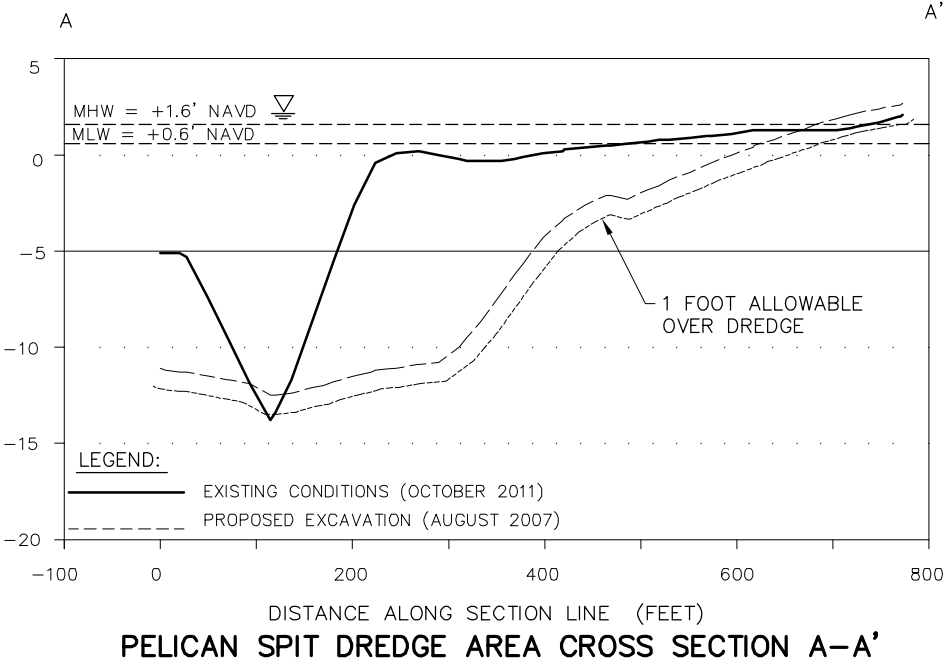


NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
2. PROFILES GENERATED FROM CONTOURS DEVELOPED BASED ON AVAILABLE SURVEY DATA COLLECTED IN AUGUST 2007 AND OCTOBER, 2011.

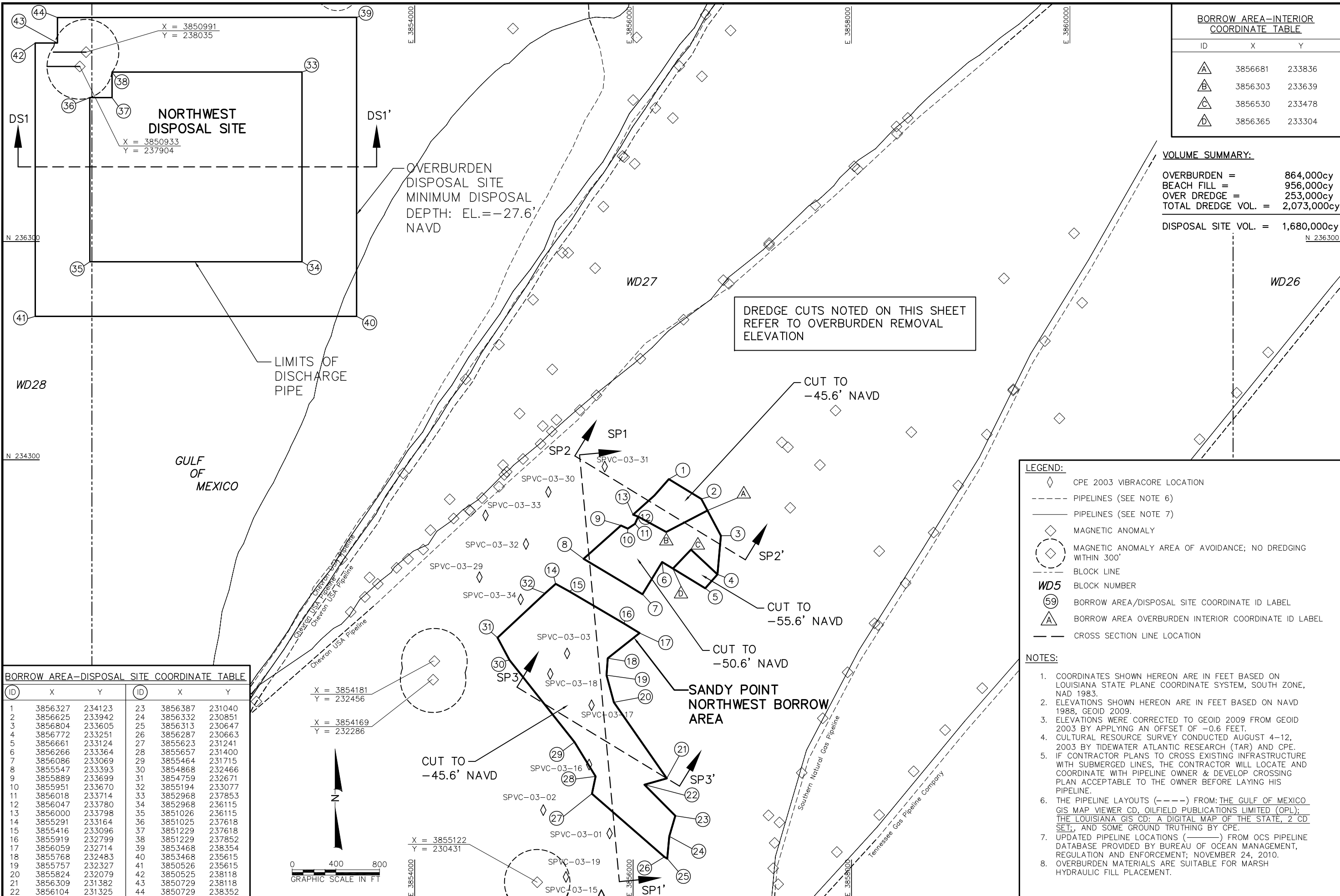
POINT#	STATE PLANE*		GEOGRAPHIC**	
	EASTING	NORTHING	LATITUDE	LONGITUDE
1	3831154.2	278681.7	29° 15' 17.7"	89° 36' 17.7"
2	3831330.3	278655.5	29° 15' 17.4"	89° 36' 17.4"
3	3831370.3	278813.7	29° 15' 18.9"	89° 36' 18.9"
4	3831508.4	278851.3	29° 15' 19.3"	89° 36' 19.3"
5	3831587.7	278940.1	29° 15' 20.1"	89° 36' 20.1"
6	3831796.4	279920.4	29° 15' 29.8"	89° 36' 29.8"
7	3831379.0	279986.0	29° 15' 30.5"	89° 36' 30.5"
8	3831180.6	279513.5	29° 15' 25.9"	89° 36' 25.9"
9	3831228.6	279360.3	29° 15' 24.4"	89° 36' 24.4"
10	3831169.4	279060.7	29° 15' 21.4"	89° 36' 21.4"
11	3831227.1	278979.5	29° 15' 20.6"	89° 36' 20.6"

*Referenced to Louisiana State Plane, South Zone, NAD 1983, US Survey Feet.
**Referenced to Geographic, NAD 1983.



No.	Date	Checked by:	Reviewed by:	Submitted by:	Comm. No.:
1	12/22/10	AMB	GT	AW	142477
2	4/5/12				

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 EMPIRE BORROW AREA AND
 PELICAN SPIT DREDGE AREA
 CROSS SECTIONS

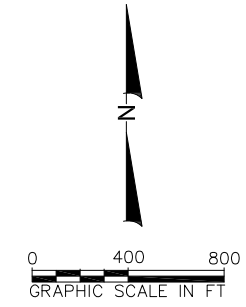


BORROW AREA-INTERIOR COORDINATE TABLE		
ID	X	Y
A	3856681	233836
B	3856303	233639
C	3856530	233478
D	3856365	233304

VOLUME SUMMARY:

OVERBURDEN =	864,000cy
BEACH FILL =	956,000cy
OVER DREDGE =	253,000cy
TOTAL DREDGE VOL. =	2,073,000cy
DISPOSAL SITE VOL. =	1,680,000cy

BORROW AREA-DISPOSAL SITE COORDINATE TABLE					
ID	X	Y	ID	X	Y
1	3856327	234123	23	3856387	231040
2	3856625	233942	24	3856332	230851
3	3856804	233605	25	3856313	230647
4	3856772	233251	26	3856287	230663
5	3856661	233124	27	3855623	231241
6	3856266	233364	28	3855657	231400
7	3856086	233069	29	3855464	231715
8	3855547	233393	30	3854868	232466
9	3855889	233699	31	3854759	232671
10	3855951	233670	32	3855194	233077
11	3856018	233714	33	3852968	237853
12	3856047	233780	34	3852968	236115
13	3856000	233798	35	3851026	236115
14	3855291	233164	36	3851025	237618
15	3855416	233096	37	3851229	237618
16	3855919	232799	38	3851229	237852
17	3856059	232714	39	3853468	238354
18	3855768	232483	40	3853468	235615
19	3855757	232327	41	3850526	235615
20	3855824	232079	42	3850525	238118
21	3856309	231382	43	3850729	238118
22	3856104	231325	44	3850729	238352



- LEGEND:**
- ◇ CPE 2003 VIBRACORE LOCATION
 - PIPELINES (SEE NOTE 6)
 - PIPELINES (SEE NOTE 7)
 - ◇ MAGNETIC ANOMALY
 - ◇ (with circle) MAGNETIC ANOMALY AREA OF AVOIDANCE; NO DREDGING WITHIN 300'
 - - - - BLOCK LINE
 - WD5** BLOCK NUMBER
 - ⑤⑨ BORROW AREA/DISPOSAL SITE COORDINATE ID LABEL
 - △ BORROW AREA OVERBURDEN INTERIOR COORDINATE ID LABEL
 - - - - CROSS SECTION LINE LOCATION
- NOTES:**
- COORDINATES SHOWN HEREON ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.
 - ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
 - ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
 - CULTURAL RESOURCE SURVEY CONDUCTED AUGUST 4-12, 2003 BY TIDEWATER ATLANTIC RESEARCH (TAR) AND CPE.
 - IF CONTRACTOR PLANS TO CROSS EXISTING INFRASTRUCTURE WITH SUBMERGED LINES, THE CONTRACTOR WILL LOCATE AND COORDINATE WITH PIPELINE OWNER & DEVELOP CROSSING PLAN ACCEPTABLE TO THE OWNER BEFORE LAYING HIS PIPELINE.
 - THE PIPELINE LAYOUTS (---) FROM THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND SOME GROUND TRUTHING BY CPE.
 - UPDATED PIPELINE LOCATIONS (—) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.
 - OVERBURDEN MATERIALS ARE SUITABLE FOR MARSH HYDRAULIC FILL PLACEMENT.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net

CPE
 CONSULTING ENGINEERS

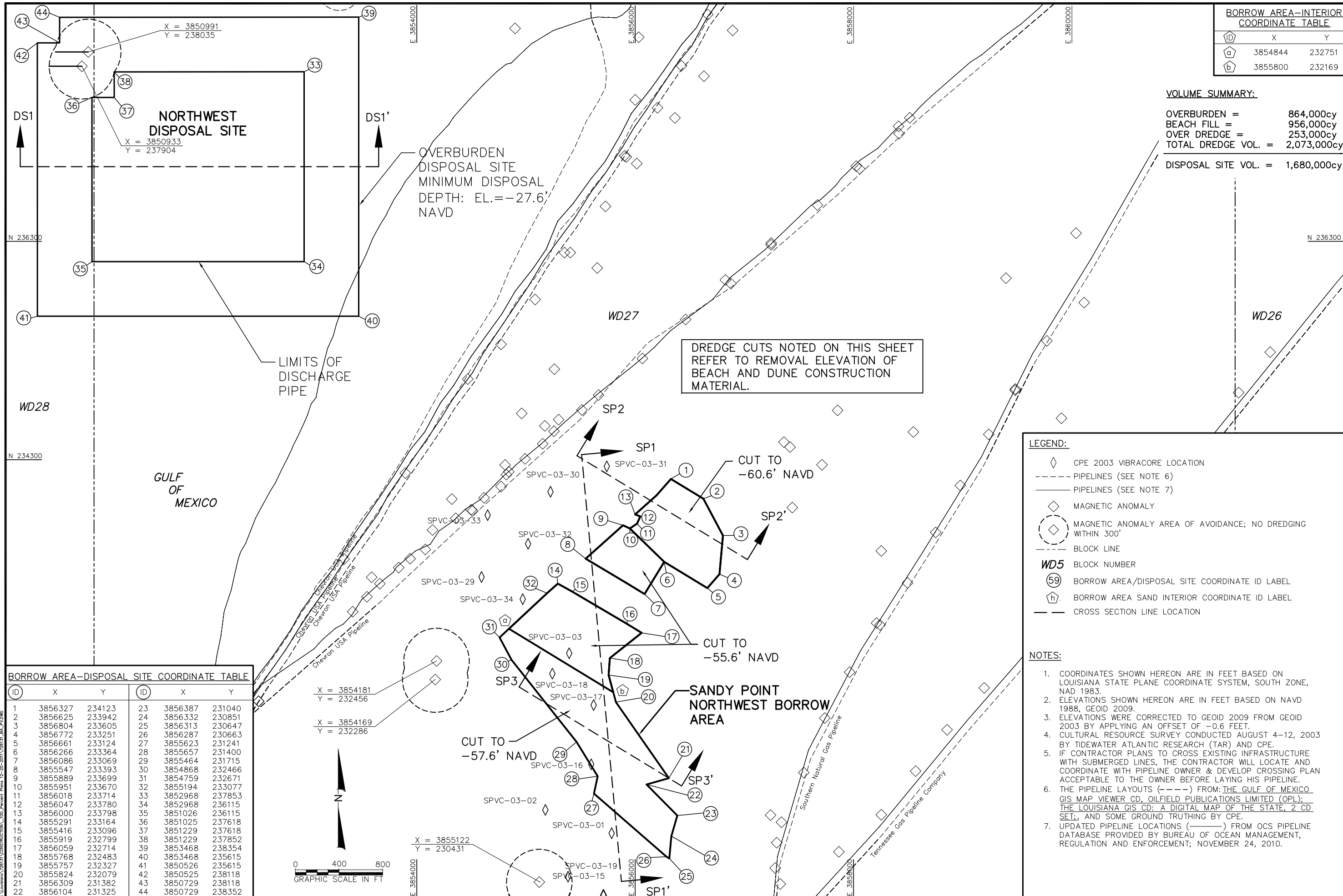
Designed by:	GT	Checked by:	AMB	Submitted by:	AW
Drawn by:	AMB	Reviewed by:	GT	Date:	10/8/2007
Reference Files:	B:\projects\26131\CONSTRUCTION\100_Percent_Plans\12-20-2011\26131_BA_P1.DWG B:\projects\26131\CONSTRUCTION\100_Percent_Plans\12-20-2011\26131_BA_P1.DWG B:\projects\26131\CONSTRUCTION\100_Percent_Plans\12-20-2011\26131_BA_P1.DWG B:\projects\26131\CONSTRUCTION\100_Percent_Plans\12-20-2011\26131_BA_P1.DWG				

PELICAN ISLAND RESTORATION (BA-38-1) CWPRA PROJECT SANDY POINT NW BORROW AREA OVERBURDEN CUTS

DRAWING NO. **BA-4**

SHEET 10 OF 31

4:\Louisiana\26131\CONSTRUCTION\100_Percent_Plans\12-20-2011\26131_BA_P1.DWG



BORROW AREA-INTERIOR COORDINATE TABLE

ID	X	Y
(a)	3854844	232751
(b)	3855800	232169

VOLUME SUMMARY:

OVERBURDEN =	864,000cy
BEACH FILL =	956,000cy
OVER DREDGE =	253,000cy
TOTAL DREDGE VOL. =	2,073,000cy
DISPOSAL SITE VOL. =	1,680,000cy

BORROW AREA-DISPOSAL SITE COORDINATE TABLE

ID	X	Y	ID	X	Y
1	3856327	234123	23	3856387	231040
2	3856625	233942	24	3856332	230851
3	3856804	233605	25	3856313	230647
4	3856772	233251	26	3856287	230663
5	3856661	233124	27	3855623	231241
6	3856266	233364	28	3855657	231400
7	3856086	233069	29	3855464	231715
8	3855547	233393	30	3854868	232466
9	3855889	233699	31	3854759	232671
10	3855951	233670	32	3855194	233077
11	3856018	233714	33	3852968	237853
12	3856047	233780	34	3852968	236115
13	3856000	233798	35	3851026	236115
14	3855291	233164	36	3851025	237618
15	3855416	233096	37	3851229	237618
16	3855919	232799	38	3851229	237852
17	3856059	232714	39	3853468	238354
18	3855768	232483	40	3853468	235615
19	3855757	232327	41	3850526	235615
20	3855824	232079	42	3850525	238118
21	3856309	231382	43	3850729	238118
22	3856104	231325	44	3850729	238352

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-8116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



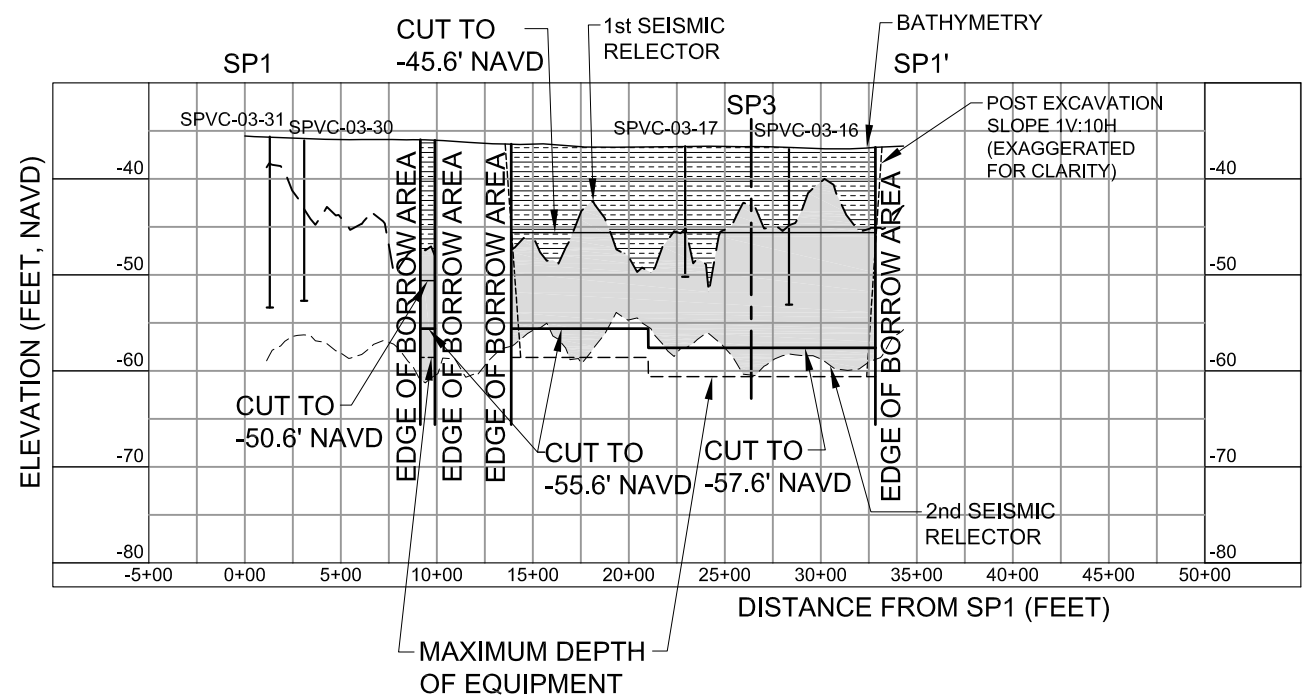
Reference Files:	Designed by:	Checked by:
Borrowing Blockings Pipelining Sandcutting Sandcutting Sandcutting	GT	AMB
	Drawn by:	Reviewed by:
	AMB	GT
	Date:	Submitted by:
	10/8/2007	AW
	Print Scale:	Comm. No.:
	AS NOTED	142477

- LEGEND:**
- ◇ CPE 2003 VIBRACORE LOCATION
 - PIPELINES (SEE NOTE 6)
 - PIPELINES (SEE NOTE 7)
 - ◇ MAGNETIC ANOMALY
 - MAGNETIC ANOMALY AREA OF AVOIDANCE; NO DREDGING WITHIN 300'
 - BLOCK LINE
 - WD5** BLOCK NUMBER
 - (59) BORROW AREA/DISPOSAL SITE COORDINATE ID LABEL
 - (h) BORROW AREA SAND INTERIOR COORDINATE ID LABEL
 - CROSS SECTION LINE LOCATION

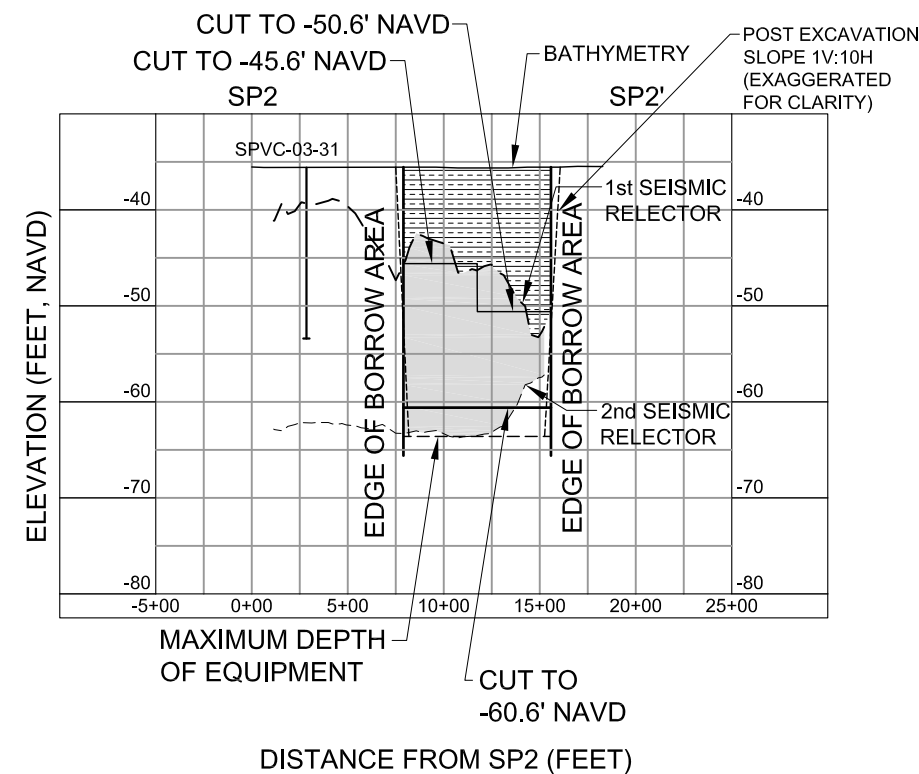
- NOTES:**
- COORDINATES SHOWN HEREON ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.
 - ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
 - ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
 - CULTURAL RESOURCE SURVEY CONDUCTED AUGUST 4-12, 2003 BY TIDEWATER ATLANTIC RESEARCH (TAR) AND CPE.
 - IF CONTRACTOR PLANS TO CROSS EXISTING INFRASTRUCTURE WITH SUBMERGED LINES, THE CONTRACTOR WILL LOCATE AND COORDINATE WITH PIPELINE OWNER & DEVELOP CROSSING PLAN ACCEPTABLE TO THE OWNER BEFORE LAYING HIS PIPELINE.
 - THE PIPELINE LAYOUTS (---) FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND SOME GROUND TRUTHING BY CPE.
 - UPDATED PIPELINE LOCATIONS (---) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 SANDY POINT NW BORROW AREA
 SAND CUTS
 DRAWING NO.
BA-5
 SHEET 11 OF 31

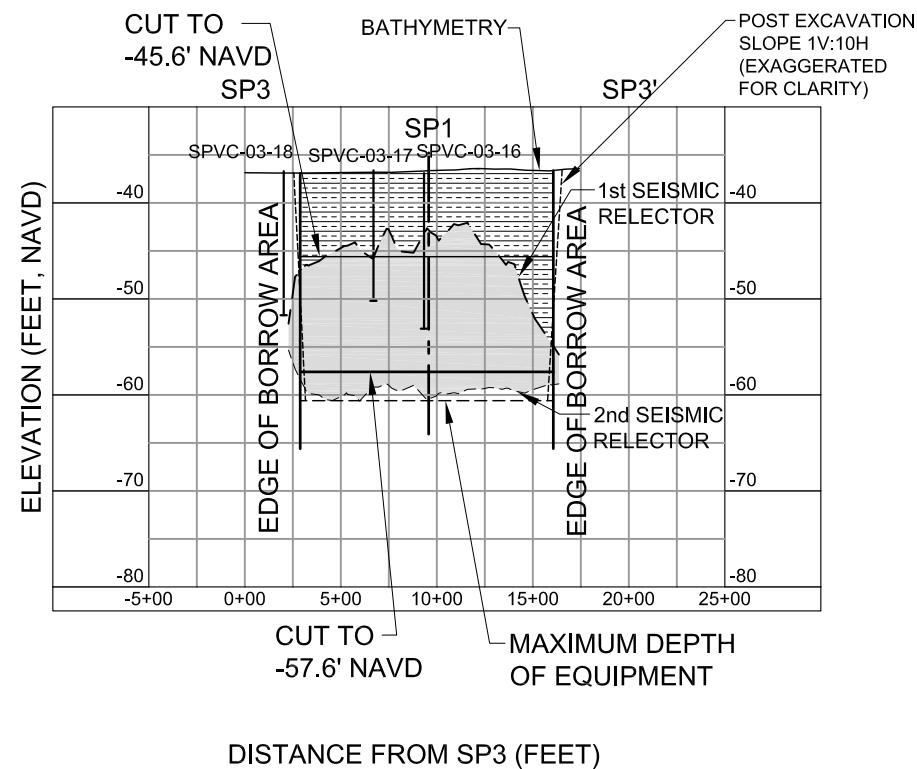
**SANDY POINT NW BORROW AREA
CROSS SECTION SP1-SP1'**



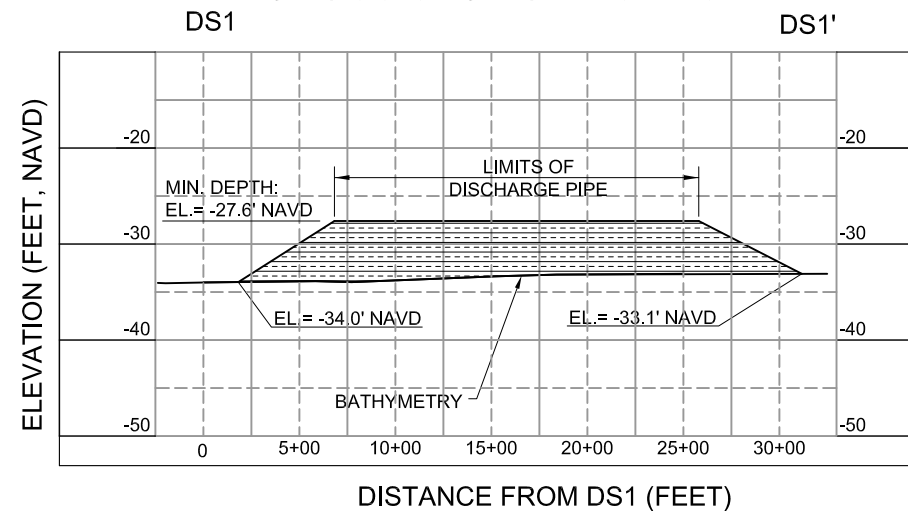
**SANDY POINT NW BORROW AREA
CROSS SECTION SP2-SP2'**



**SANDY POINT NW BORROW AREA
CROSS SECTION SP3-SP3'**



**SANDY POINT NW DISPOSAL SITE
CROSS SECTION DS1-DS1'**



NOTES:

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE.
2. VERTICAL THICKNESS OF LAYERS IS REPRESENTATIVE ONLY. ACTUAL MATERIAL MAY VARY.
3. SEE SHEETS 10-11 FOR LOCATION OF CROSS SECTION LINES.
4. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
5. DATE OF BATHYMETRIC, SEISMIC, SIDE SCAN SONAR, AND MAGNETOMETER SURVEY: MAY 20-25TH, 2003 CONDUCTED BY CPE. ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
6. MAXIMUM DEPTH OF EQUIPMENT 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

- BEACH FILL SEDIMENTS
- SURFACE SILT/CLAY
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT
- DREDGE CUTS
- MAXIMUM DEPTH OF EQUIPMENT



1	4/06/04 ADD MUD REMOVAL DREDGE CUTS	Checked by:	AMB
2	09/12/05 Add 2005 VC & Update BA Cuts	Reviewed by:	GT
3	4/3/12 FAR #s, #7 AND #8	Submitted by:	AW
		Date:	10/8/2007
		Print Scale:	AS NOTED
		Comm. No.:	142477

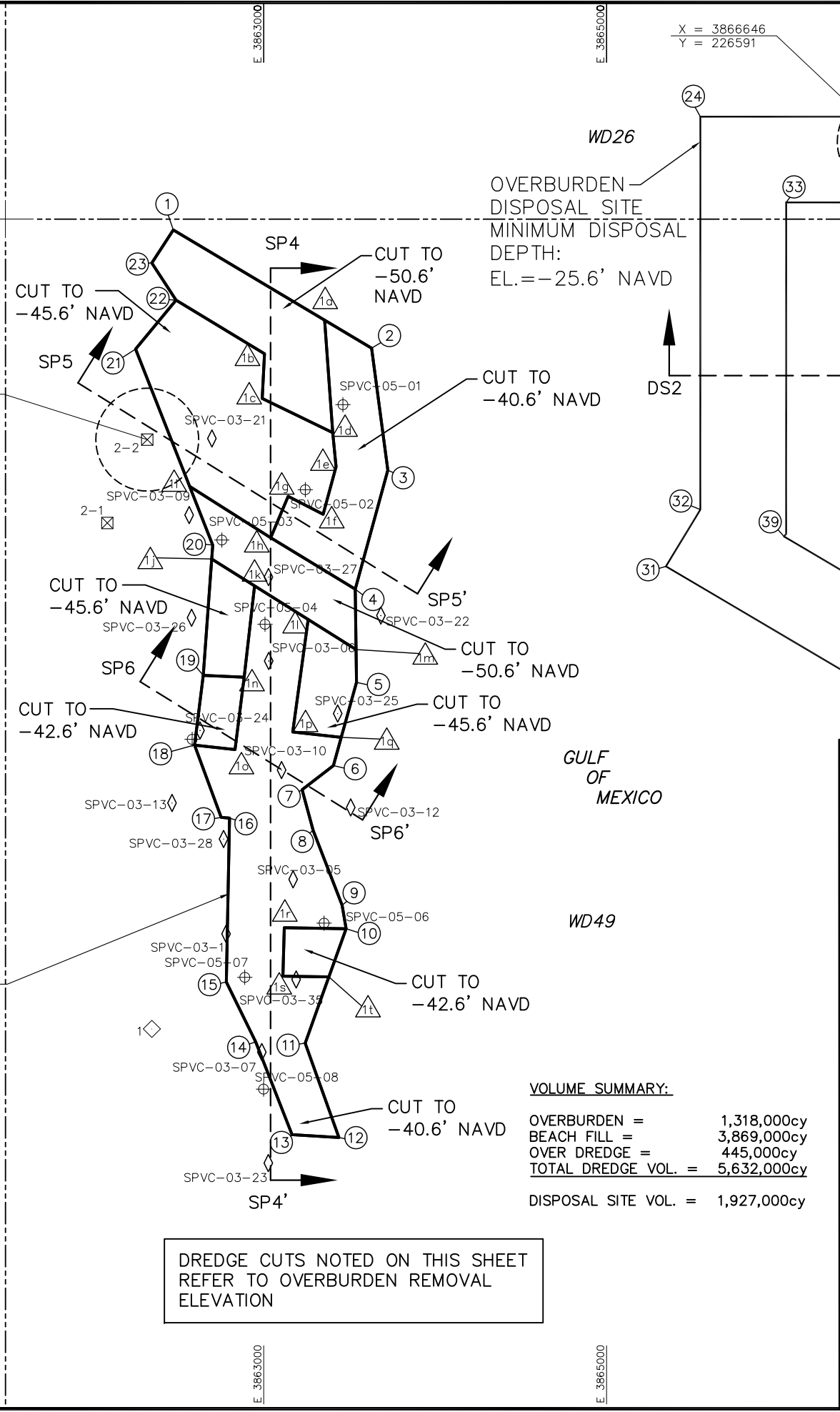
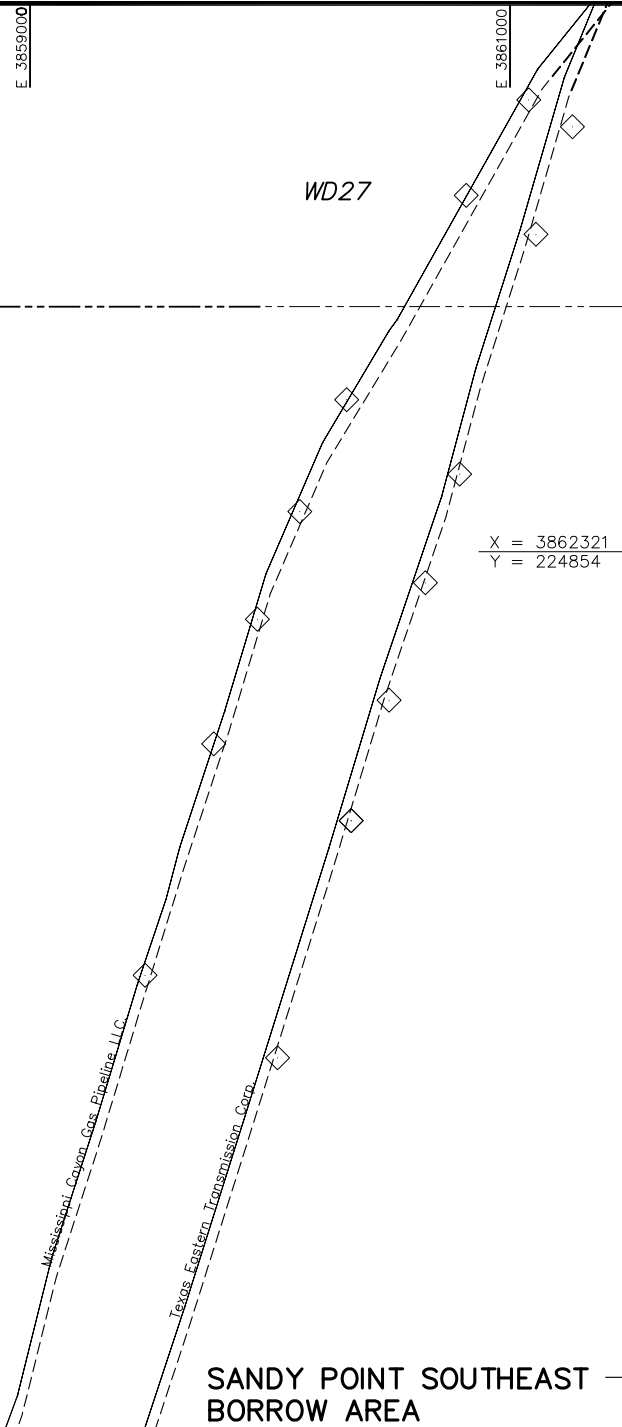
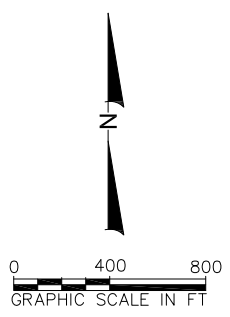
BORROW AREA-INTERIOR COORDINATE TABLE		
ID	X	Y
1a	3863355	225551
1b	3863005	225355
1c	3862991	225094
1d	3863403	224894
1e	3863422	224696
1f	3863347	224419
1g	3863143	224523
1h	3863041	224282
1i	3862568	224581
1j	3862697	224158
1k	3862947	224001
1l	3863259	223805
1m	3863539	223630
1n	3862886	223469
1o	3862833	223046
1p	3863169	223149
1q	3863452	223118
1r	3863120	222008
1s	3863112	221726
1t	3863380	221722

N 225000

N 223000

BORROW AREA-DISPOSAL SITE COORDINATE TABLE					
ID	X	Y	ID	X	Y
1	3862473	226077	24	3865547	226737
2	3863630	225387	25	3867267	226737
3	3863724	224676	26	3867406	226967
4	3863534	223982	27	3868481	226327
5	3863541	223438	28	3868481	223707
6	3863407	222953	29	3867137	223707
7	3863224	222812	30	3866850	223229
8	3863289	222575	31	3865346	224115
9	3863458	222139	32	3865547	224446
10	3863481	222002	33	3866047	226237
11	3863242	221335	34	3867550	226237
12	3863439	220784	35	3867981	225980
13	3863165	220801	36	3867981	224207
14	3862954	221342	37	3866854	224207
15	3862782	221691	38	3866676	223911
16	3862801	222648	39	3866036	224288
17	3862752	222651			
18	3862597	223073			
19	3862648	223479			
20	3862703	224239			
21	3862253	225382			
22	3862489	225667			
23	3862348	225884			

SANDY POINT SOUTHEAST BORROW AREA



VOLUME SUMMARY:

OVERBURDEN =	1,318,000cy
BEACH FILL =	3,869,000cy
OVER DREDGE =	445,000cy
TOTAL DREDGE VOL. =	5,632,000cy
DISPOSAL SITE VOL. =	1,927,000cy

DREDGE CUTS NOTED ON THIS SHEET REFER TO OVERBURDEN REMOVAL ELEVATION

- LEGEND:**
- ⊕ CPE 2005 VIBRACORE LOCATION
 - ◇ CPE 2003 VIBRACORE LOCATION
 - PIPELINES (SEE NOTE 6)
 - PIPELINES (SEE NOTE 7)
 - ◇ MAGNETIC ANOMALY
 - ⊕ MAGNETIC ANOMALY AREA OF AVOIDANCE; NO DREDGING WITHIN 300'
 - 2-1 ⊗ OBJECT ON SEA FLOOR DETECTED BY SIDSCAN SONAR
 - BLOCK LINE
 - WD5** BLOCK NUMBER
 - Ⓜ BORROW AREA/DISPOSAL SITE COORDINATE ID LABEL
 - △ BORROW AREA OVERBURDEN INTERIOR COORDINATE ID LABEL
 - CROSS SECTION LINE LOCATION
- NOTES:**
- COORDINATES SHOWN HEREON ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.
 - ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
 - ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
 - CULTURAL RESOURCE SURVEY CONDUCTED AUGUST 4-12, 2003 BY TIDEWATER ATLANTIC RESEARCH (TAR) AND CPE.
 - IF CONTRACTOR PLANS TO CROSS EXISTING INFRASTRUCTURE WITH SUBMERGED LINES, THE CONTRACTOR WILL LOCATE AND COORDINATE WITH PIPELINE OWNER & DEVELOP CROSSING PLAN ACCEPTABLE TO THE OWNER BEFORE LAYING HIS PIPELINE.
 - THE PIPELINE LAYOUTS (---) FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET, AND SOME GROUND TRUTHING BY CPE.
 - UPDATED PIPELINE LOCATIONS (—) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.
 - OVERBURDEN MATERIALS ARE SUITABLE FOR MARSH HYDRAULIC FILL PLACEMENT.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-8116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net

CPE
 CONSULTING ENGINEERS
 A PROFESSIONAL CORPORATION

Checked by:	AMB	Designed by:	GT
Reviewed by:	GT	Drawn by:	AMB
Submitted by:	AW	Date:	10/8/2007
Comm. No.:	142477	Proj. No.:	AS NOTED

Reference Files:
 Borrowing: Borrowing.mxd
 Block: Block.mxd
 Pipeline: Pipeline.mxd
 Sandpoint: Sandpoint.mxd

PELICAN ISLAND RESTORATION (BA-38-1) CWP/PA PROJECT SANDY POINT SE BORROW AREA OVERBURDEN CUTS

DRAWING NO. BA-8

SHEET 13 OF 31

BORROW AREA-INTERIOR COORDINATE TABLE

ID	X	Y
a	3863537	223793
b	3863414	222981
c	3863070	222628
d	3863045	221668
e	3863357	221657

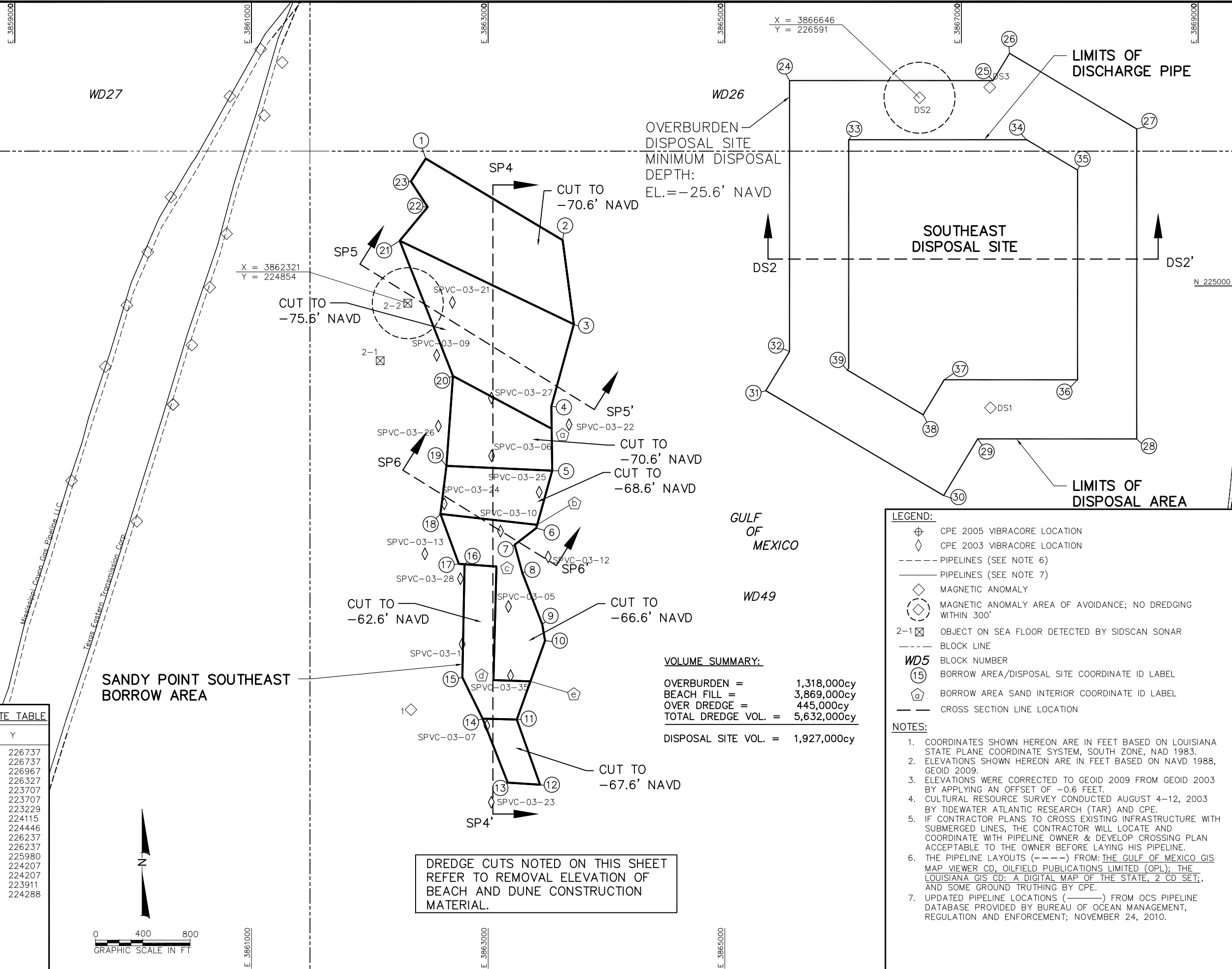
BORROW AREA-DISPOSAL SITE COORDINATE TABLE

ID	X	Y	ID	X	Y
1	3862473	226077	24	3865547	226737
2	3863630	225387	25	3867267	226737
3	3863724	224676	26	3867406	226967
4	3863534	223982	27	3868481	226327
5	3863541	223438	28	3868481	223707
6	3863407	222953	29	3867137	223707
7	3863224	222812	30	3866850	223229
8	3863289	222575	31	3865346	224115
9	3863458	222139	32	3865547	224446
10	3863481	222002	33	3866047	226237
11	3863242	221335	34	3867550	226237
12	3863439	220784	35	3867981	225980
13	3863165	220801	36	3867981	224207
14	3862954	221342	37	3866854	224207
15	3862782	221691	38	3866676	223911
16	3862801	222648	39	3866036	224288
17	3862752	222651			
18	3862597	223073			
19	3862648	223479			
20	3862703	224239			
21	3862253	225382			
22	3862489	225667			
23	3862348	225884			

N 225000

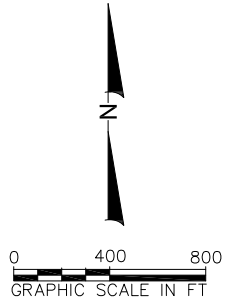
N 223000

H:\Users\1726131\Documents\1726131\1726131_Plan_Pipe.dwg



VOLUME SUMMARY:
 OVERBURDEN = 1,318,000cy
 BEACH FILL = 3,869,000cy
 OVER DREDGE = 445,000cy
 TOTAL DREDGE VOL. = 5,632,000cy
 DISPOSAL SITE VOL. = 1,927,000cy

DREDGE CUTS NOTED ON THIS SHEET REFER TO REMOVAL ELEVATION OF BEACH AND DUNE CONSTRUCTION MATERIAL.



LEGEND:

- ⊕ CPE 2005 VIBRACORE LOCATION
- ◇ CPE 2003 VIBRACORE LOCATION
- PIPELINES (SEE NOTE 6)
- PIPELINES (SEE NOTE 7)
- ◇ MAGNETIC ANOMALY
- ◇ MAGNETIC ANOMALY AREA OF AVOIDANCE; NO DREDGING WITHIN 300'
- 2-1 ⊠ OBJECT ON SEA FLOOR DETECTED BY SIDSCAN SONAR
- BLOCK LINE
- WD5 BLOCK NUMBER
- Ⓜ BORROW AREA/DISPOSAL SITE COORDINATE ID LABEL
- Ⓜ BORROW AREA SAND INTERIOR COORDINATE ID LABEL
- CROSS SECTION LINE LOCATION

NOTES:

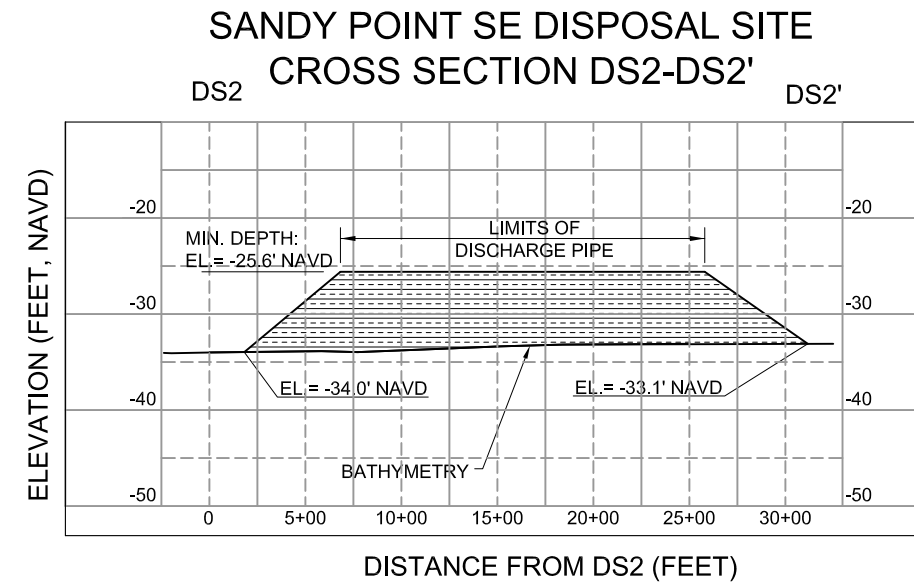
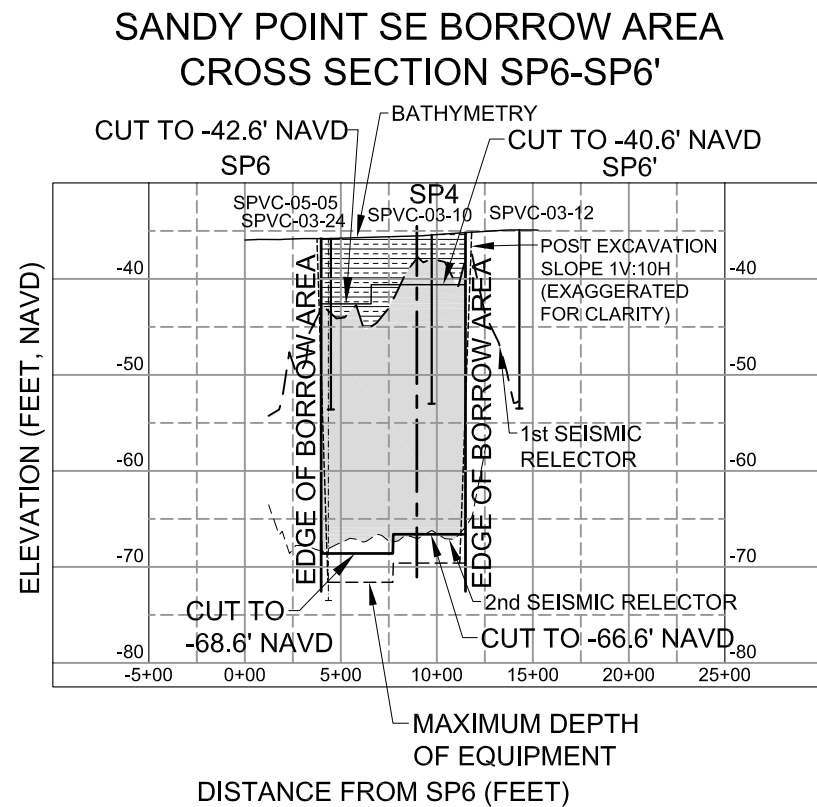
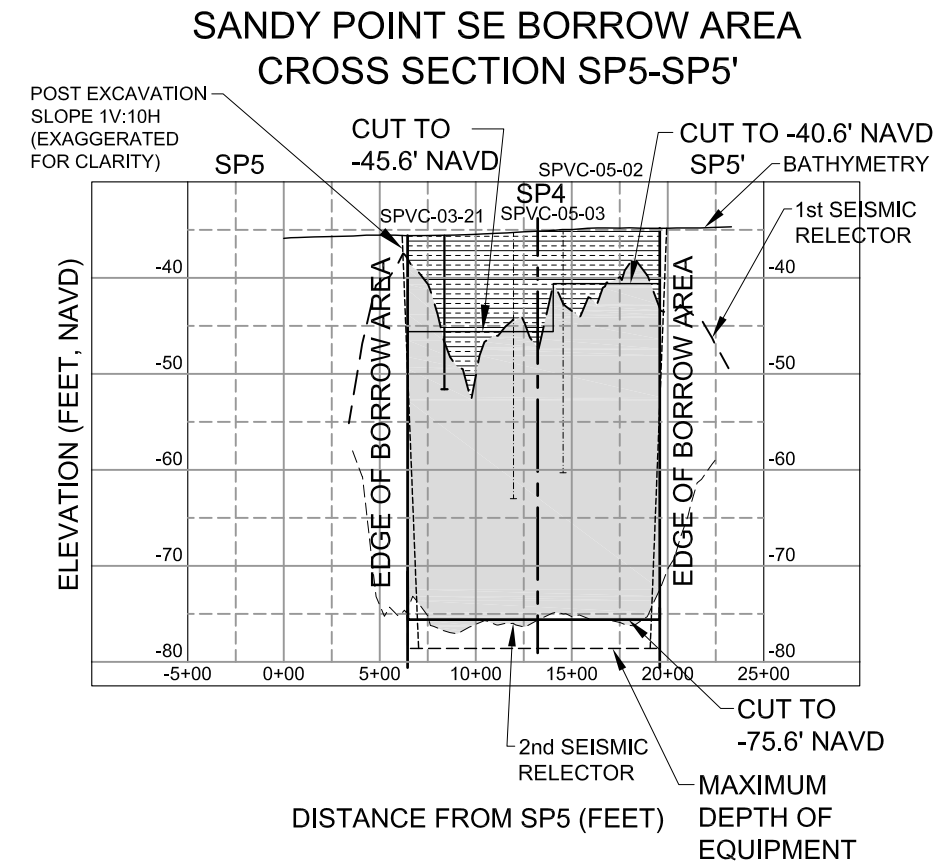
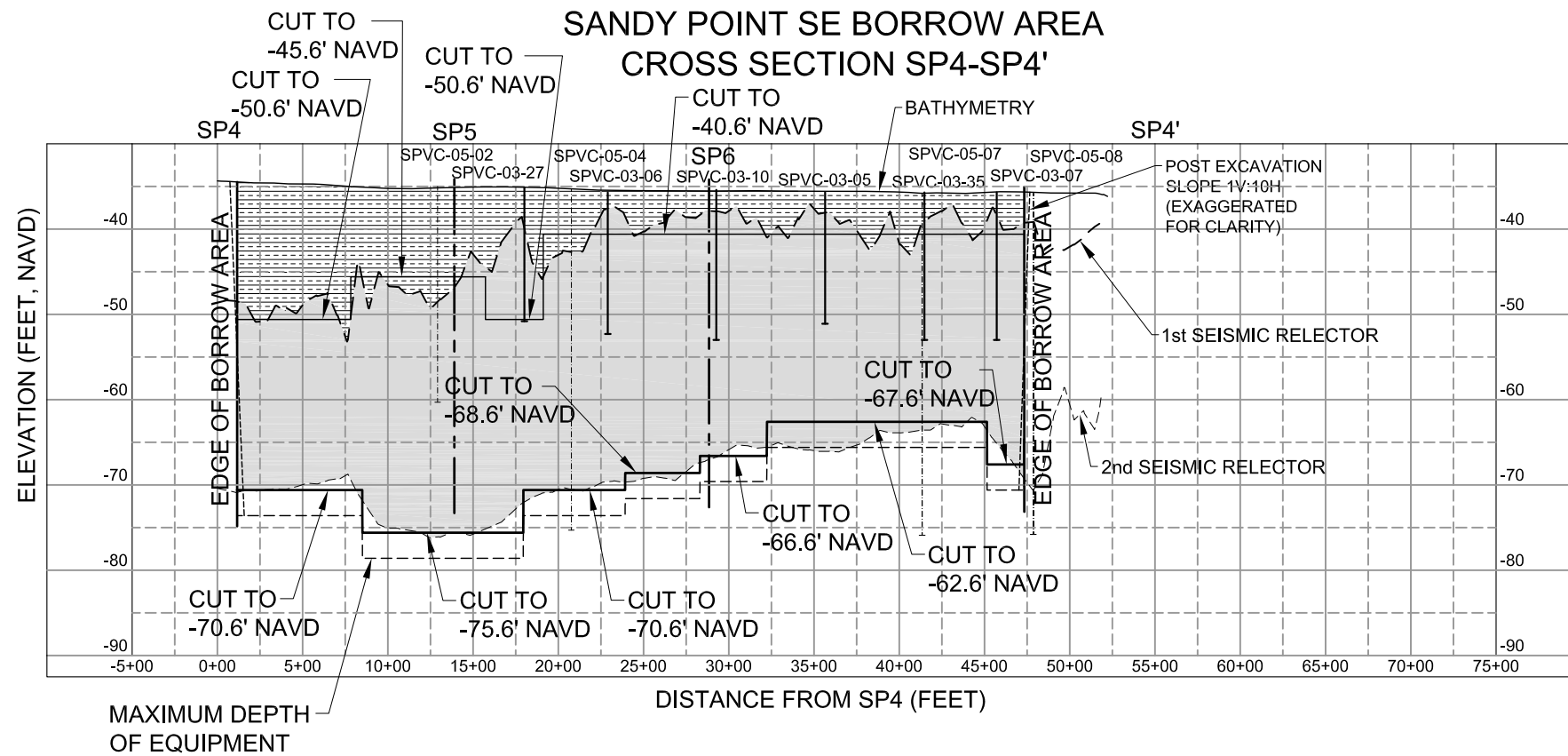
- COORDINATES SHOWN HEREON ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.
- ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
- ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
- CULTURAL RESOURCE SURVEY CONDUCTED AUGUST 4-12, 2003 BY TIDEWATER ATLANTIC RESEARCH (TAR) AND CPE.
- IF CONTRACTOR PLANS TO CROSS EXISTING INFRASTRUCTURE WITH SUBMERGED LINES, THE CONTRACTOR WILL LOCATE AND COORDINATE WITH PIPELINE OWNER & DEVELOP CROSSING PLAN ACCEPTABLE TO THE OWNER BEFORE LAYING HIS PIPELINE.
- THE PIPELINE LAYOUTS (---) FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND SOME GROUND TRUTHING BY CPE.
- UPDATED PIPELINE LOCATIONS (---) FROM OCS PIPELINE DATABASE PROVIDED BY BUREAU OF OCEAN MANAGEMENT, REGULATION AND ENFORCEMENT; NOVEMBER 24, 2010.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-8116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



Reference Files: Borrowing Blockings Pipelining Sandcutting Sandcutting Sandcutting	Designed by: GT	Checked by: AMB	1 10/12/05 Add 2005 VC & Update Borrow Area Cuts
	Drawn by: AMB	Reviewed by: GT	2 5/26/08 REMOVED BUOYS
	Date:	Submitted by: AW	3 11/22/10 LEGEND REVISION: OCS UPDATED PIPELINE DATA ADDED
	Plot Scale:	Comm. No.:	4 4/3/12 FAR #7 AND #8
		142477	

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 SANDY POINT SE BORROW AREA
 SAND CUTS
 DRAWING NO.
BA-9
 SHEET 14 OF 31



NOTES:

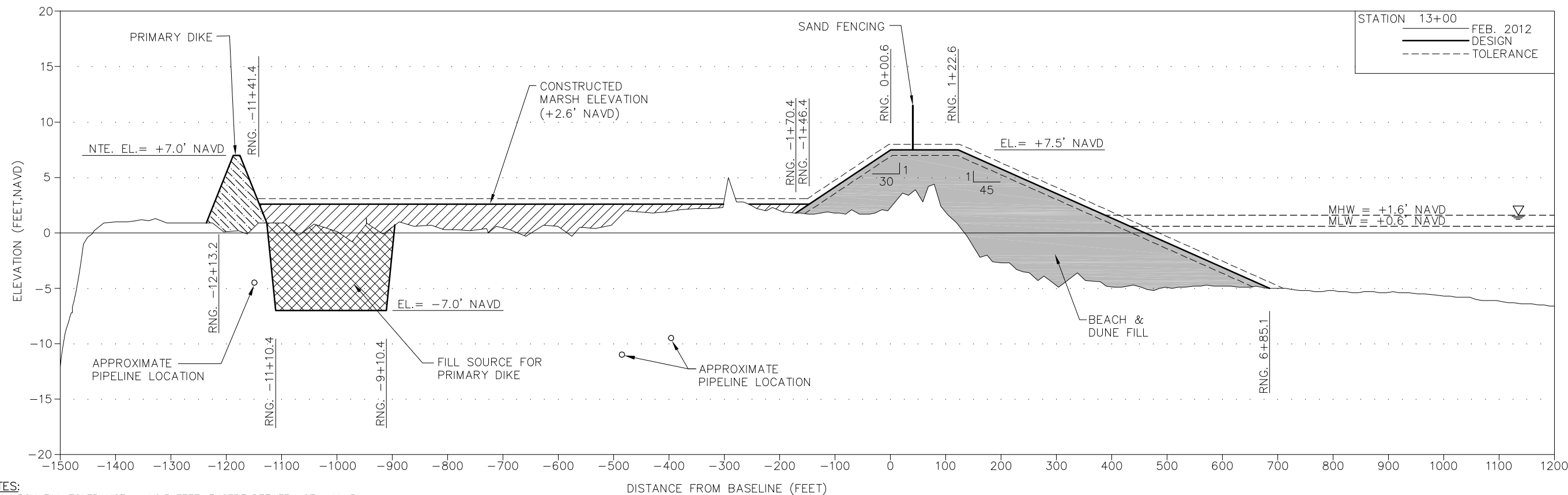
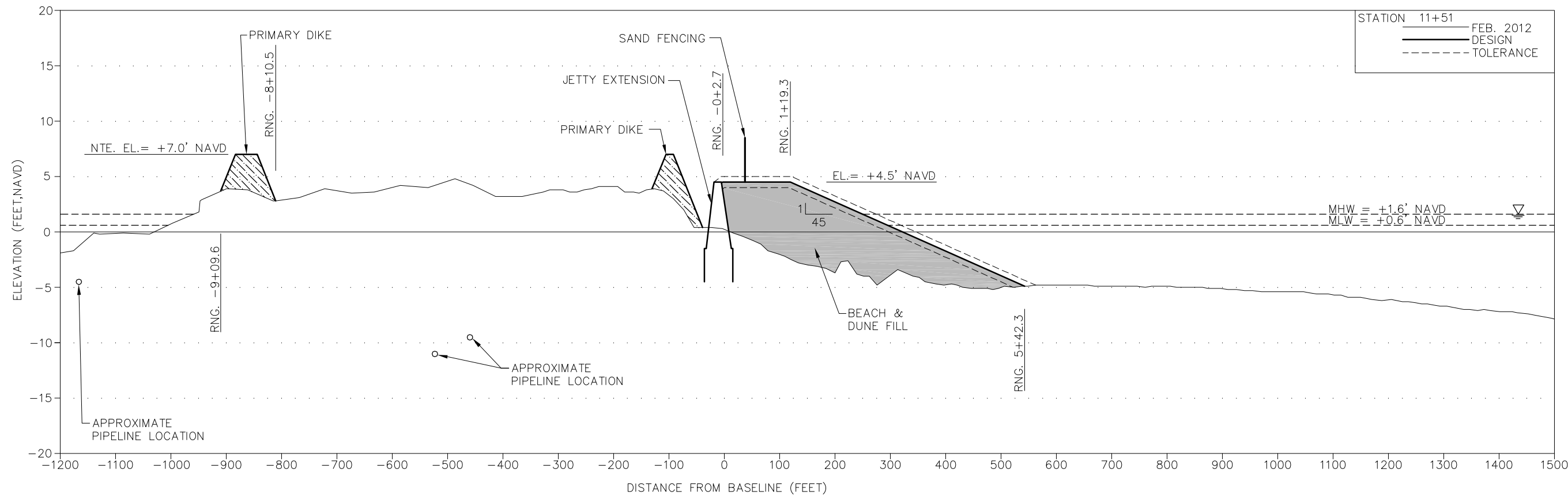
1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE.
2. VERTICAL THICKNESS OF LAYERS IS REPRESENTATIVE ONLY. ACTUAL MATERIAL MAY VARY.
3. SEE SHEETS 13-14 FOR LOCATION OF CROSS SECTION LINES.
4. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988, GEOID 2009.
5. DATE OF BATHYMETRIC, SEISMIC, SIDE SCAN SONAR, AND MAGNETOMETER SURVEY: MAY 20-25TH, 2003 CONDUCTED BY CPE. ELEVATIONS WERE CORRECTED TO GEOID 2009 FROM GEOID 2003 BY APPLYING AN OFFSET OF -0.6 FEET.
6. MAXIMUM DEPTH OF EQUIPMENT 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

- BEACH FILL SEDIMENTS
- SURFACE SILT/CLAY
- INTERMITTENT ACCOUSTIC REFLECTOR WITHIN SAND DEPOSIT
- DREDGE CUTS
- MAXIMUM DEPTH OF EQUIPMENT



1	4/06/04 ADD MID REMOVAL DREDGE CUTS	Checked by: AMB
2	09/12/05 Add 2005 VC & Update BA Cuts	Reviewed by: GT
3	4/3/12 FAR #6, #7 AND #8	Submitted by: AW
		Date: 10/8/2007
		Print Scale: AS NOTED
		Comm. No: 142477



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



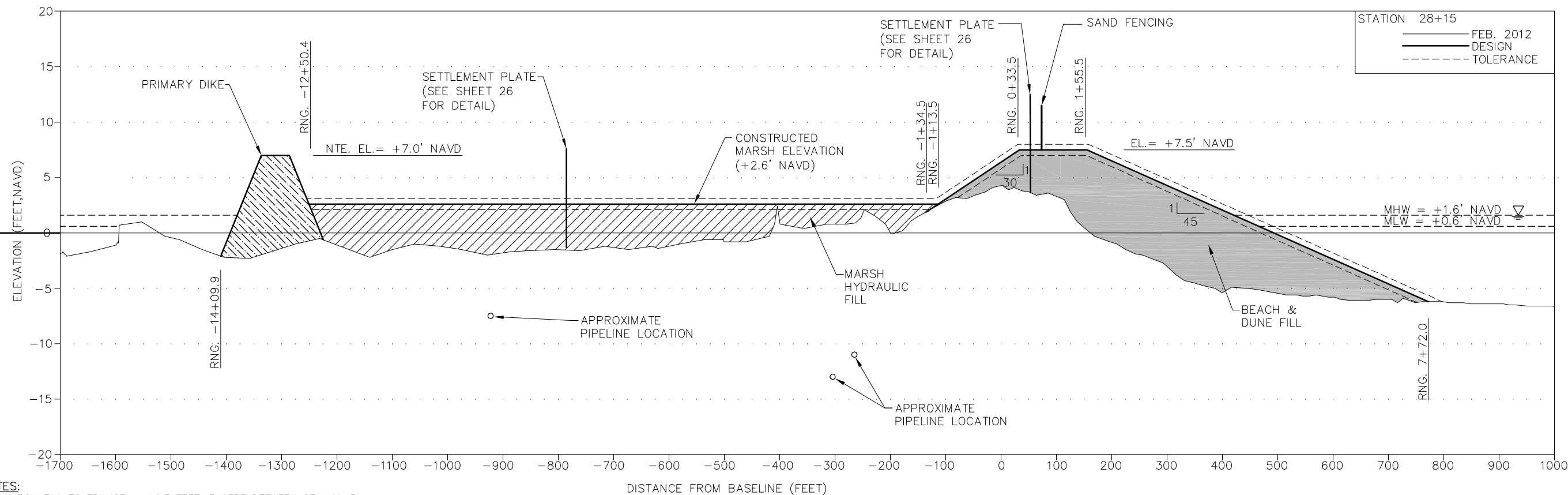
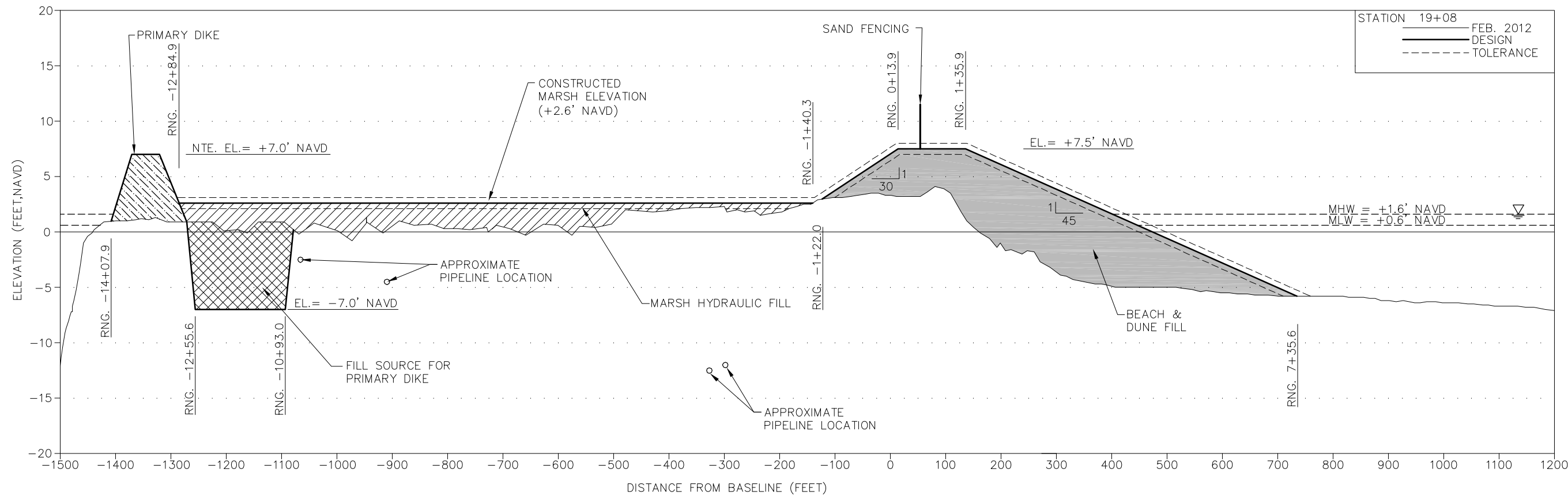
1	5/29/09	REVISED SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAI #6, #7 AND #8	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

Reference Files:
 Designed by: GT
 Drawn by: TM
 Date: 10/8/2007
 Checked by: AMB
 Reviewed by: GT
 Submitted by: AW
 Date: 10/8/2007
 Plot Scale: PAS NOTED
 Comm. No.: 142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-1
 SHEET 16 OF 31

H:\Users\j26131\Documents\100_Parent Plans\REDESIGN_04-01-2012\142477-X-sections.dwg - Apr 05, 2012 11:12am - gpr.kryshinda



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 19+08
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 28+15
 FEB. 2012
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



1	5/29/09	REVISED SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAI #6, #7 AND #8	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

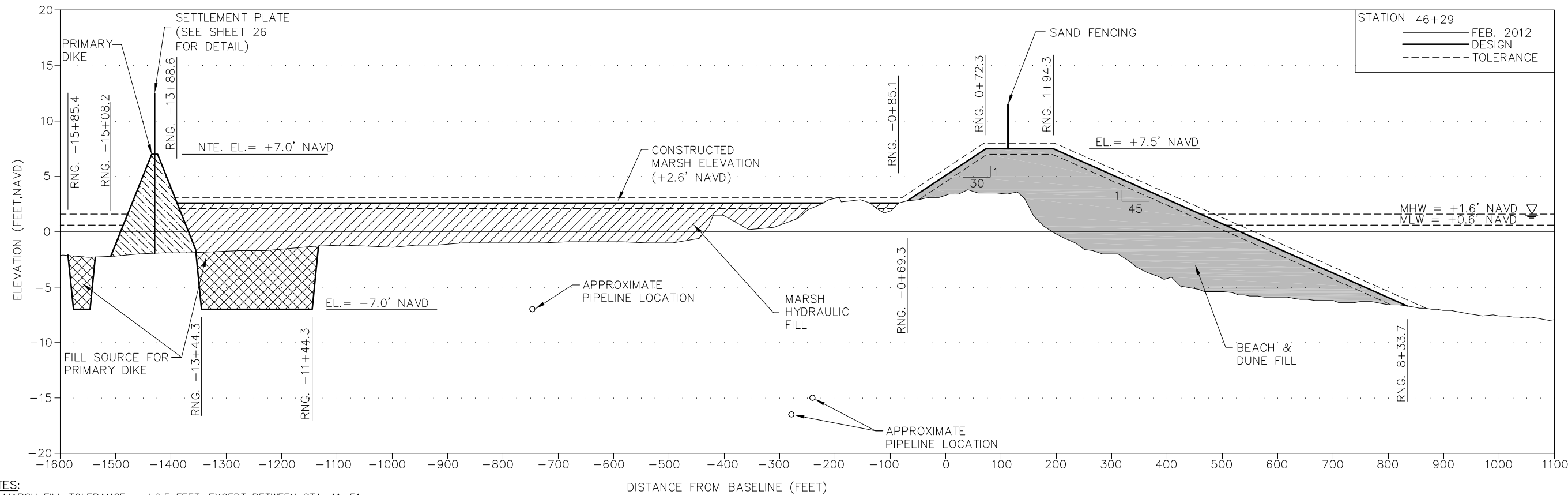
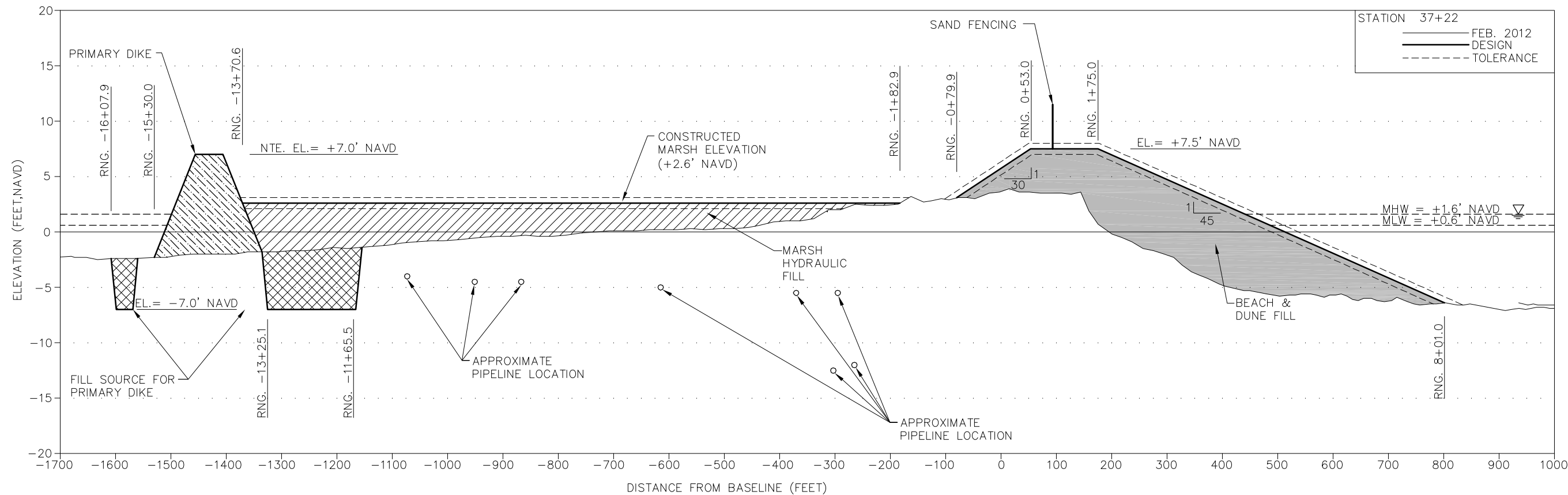
Reference Files:

Designed by:	GT
Drawn by:	TW

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-2
 SHEET 17 OF 31

H:\Users\j26131\Documents\100_Permit Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 05, 2012 8:48am - gprjkrj@cpce.com



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 37+22
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 46+29
 FEB. 2012
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



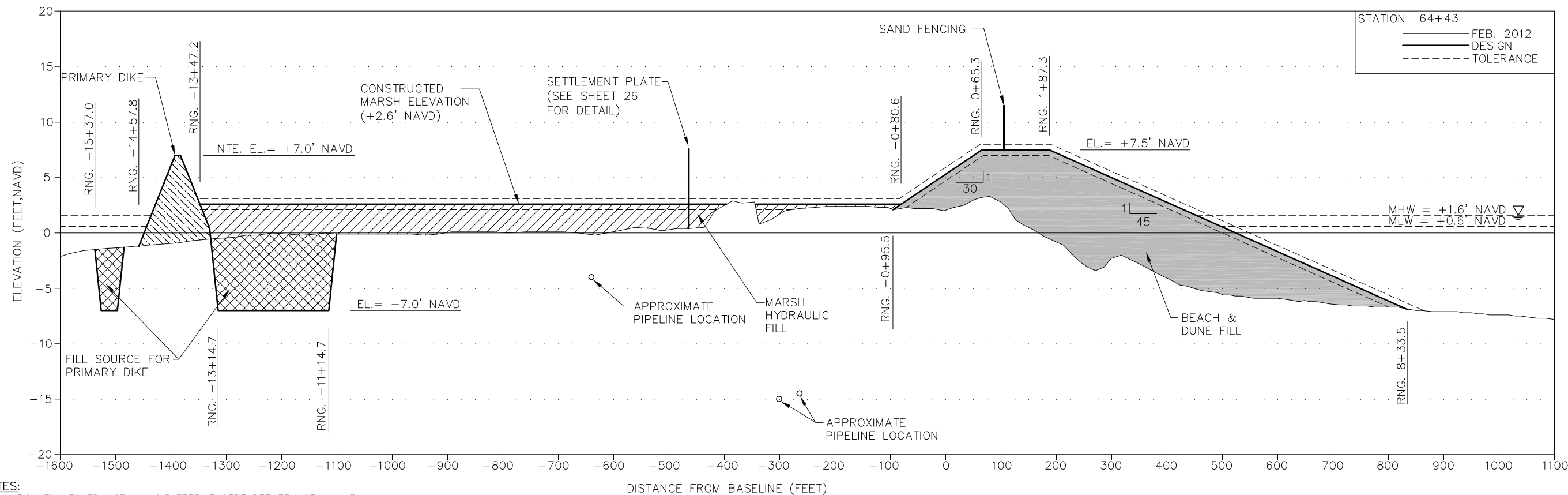
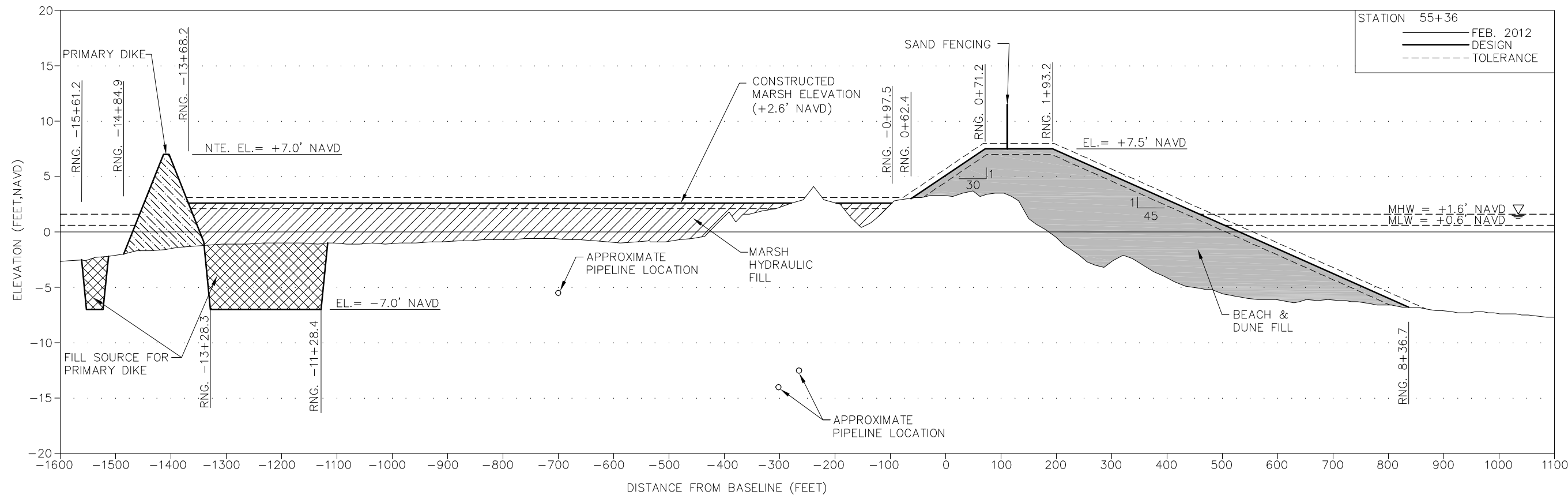
Reference Files:	Designed by:	Checked by:
1. 5/29/09 REVISION SURVEY & MARSH TOLERANCE	GT	AMB
2. 8/2/11 BEACH FILL QUANTITY INCREASE	TW	GT
3. 4/3/12 for #6, #7 and #8	AW	AW

Date:	Submitted by:	Comm. No.:
10/8/2007	AW	142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-3
 SHEET 18 OF 31

H:\Users\j26131\Documents\100_Parent Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 05, 2012 9:18am - gprjkrjstlck



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 55+36
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 64+43
 FEB. 2012
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



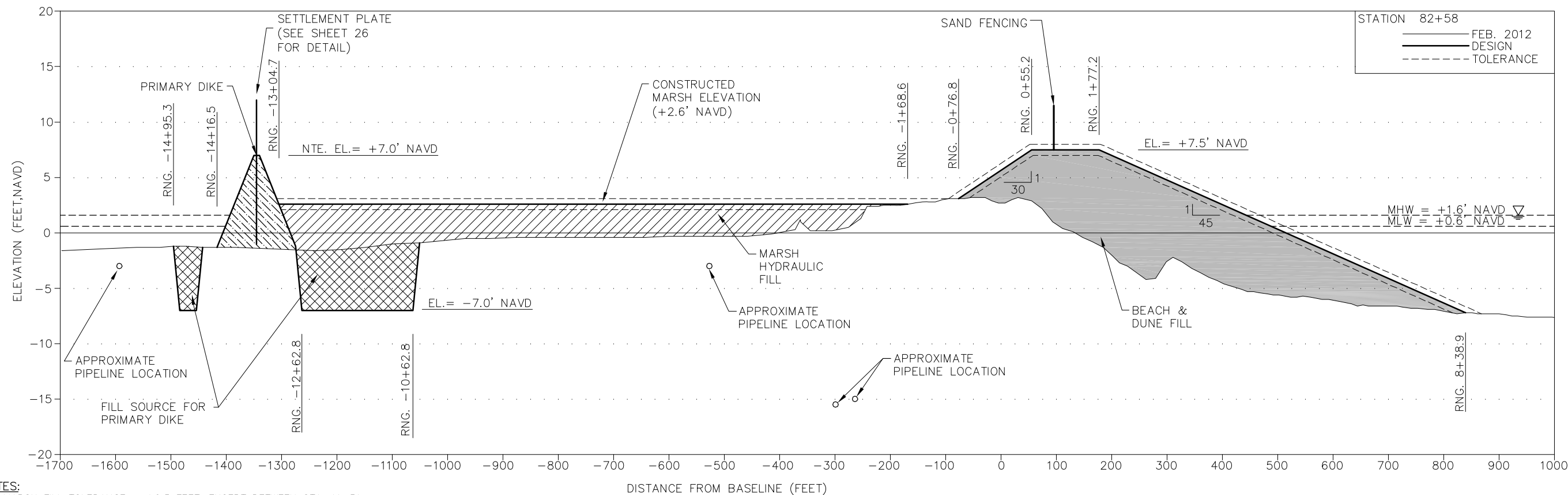
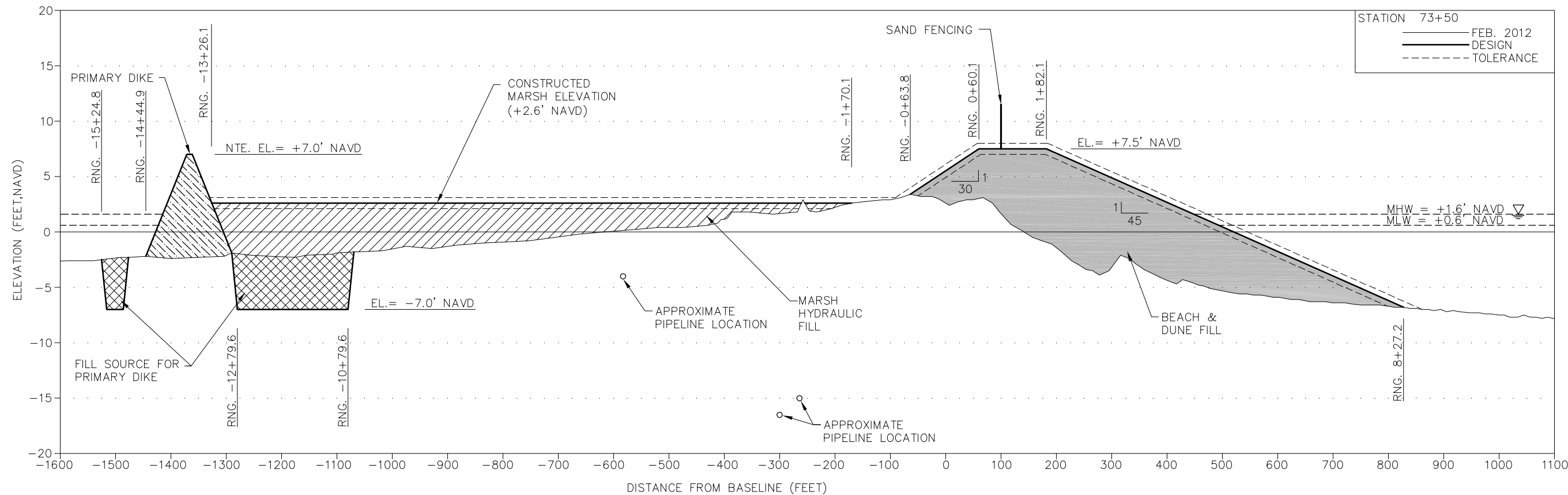
1	5/29/09	REVISED SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAI #8, #7 AND #9	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

Reference Files:
 Designed by: GT
 Drawn by: TW
 Date: 10/8/2007
 Submitted by: AW
 Comm. No.: 142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-4
 SHEET 19 OF 31

H:\Users\j26131\Documents\100_Parent Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 04, 2012 @ 1:48pm - gpr/krystin



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 73+50
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 82+58
 FEB. 2012
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



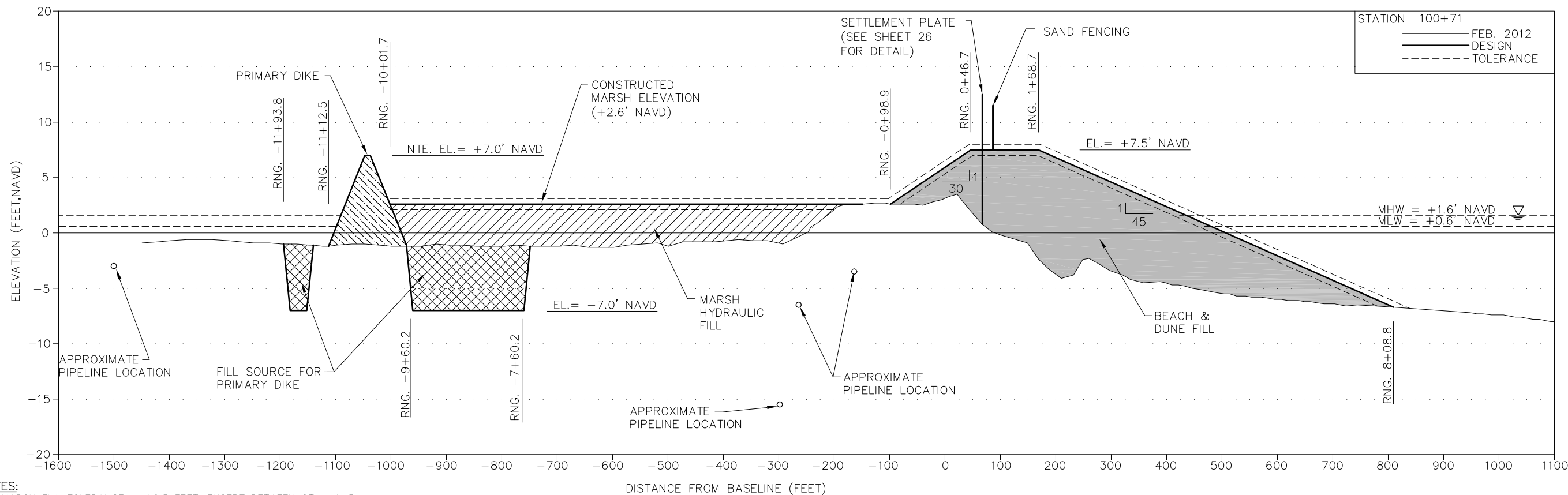
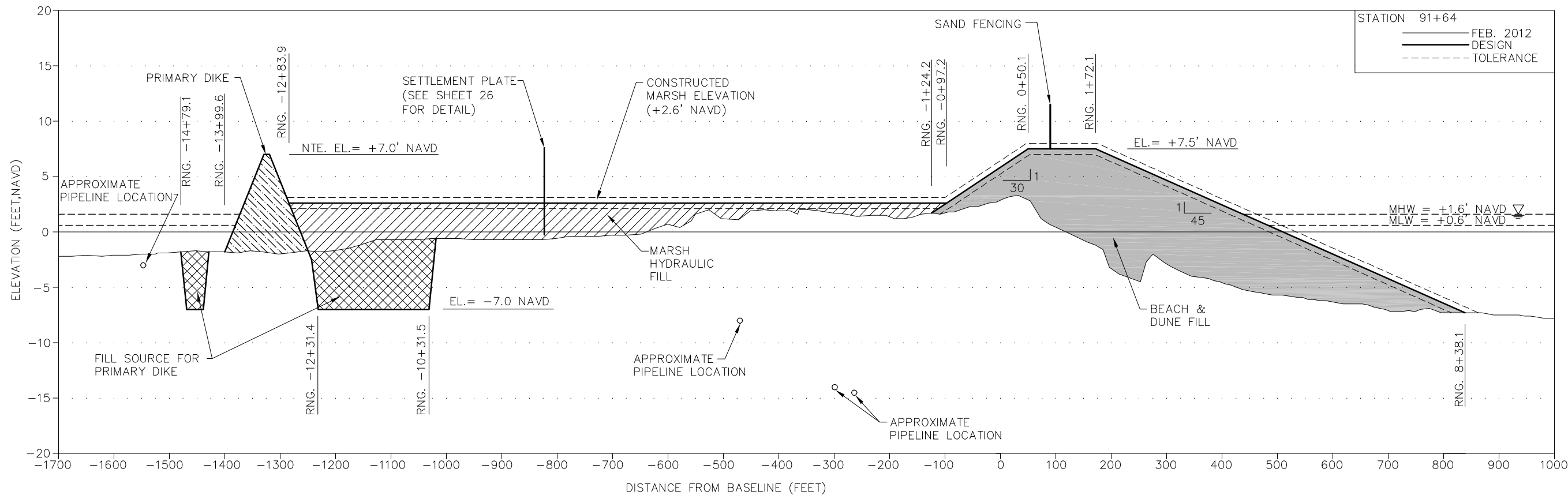
1	5/29/09	REVISED SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAR #6, #7 AND #8	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

Designed by:	GT
Drawn by:	TW

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-5
 SHEET 20 OF 31

H:\Users\j26131\Documents\CONSTRUCTION\100_Permit Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 04, 2012 1:48pm - gpr/krp/mbk



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 91+64
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 100+71
 FEB. 2012
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



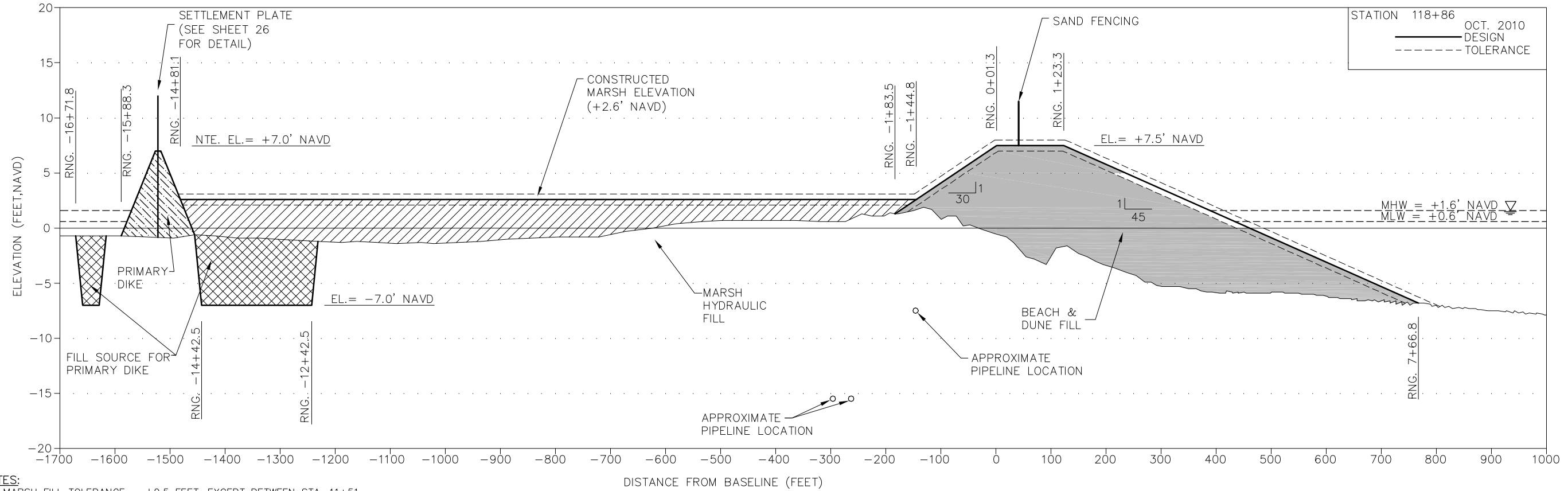
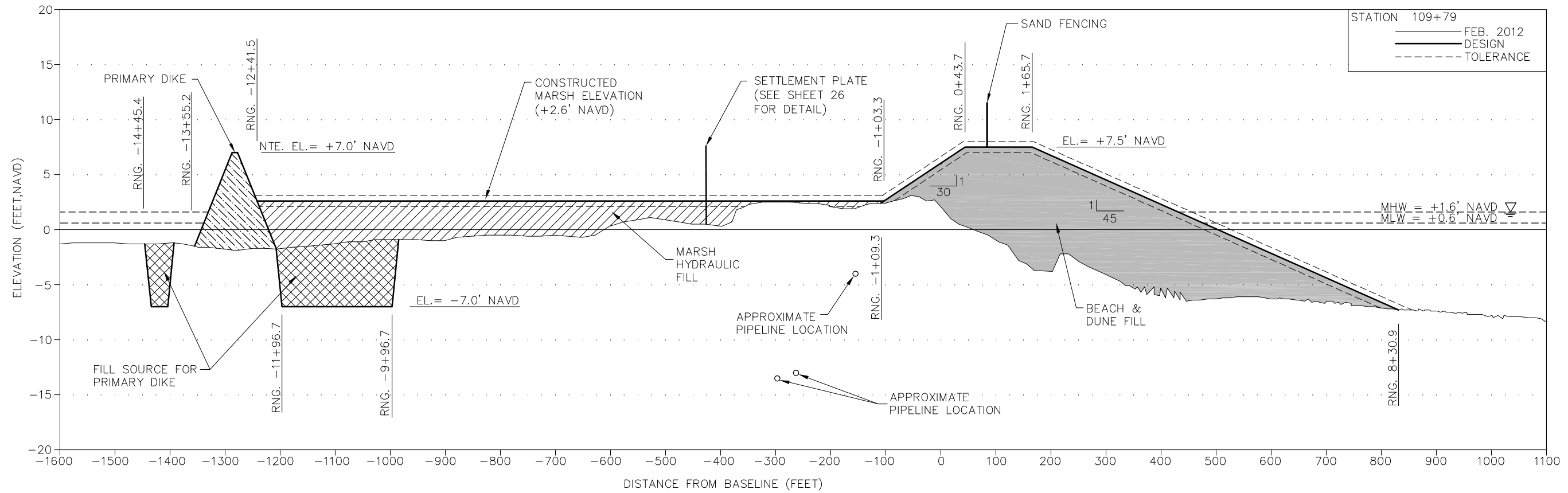
1	5/29/09	REVISION SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAI #6, #7 AND #8	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

Designed by:	GT
Drawn by:	TW
Date:	10/8/2007

Reference Files:
 PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWP/RA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-6
 SHEET 21 OF 31

H:\Users\j26131\Documents\CONSTRUCTION\LOD_Permit Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 04, 2012 @ 1:48pm - gpr/krystine



- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

STATION 109+79
 FEB. 2012
 DESIGN
 TOLERANCE

STATION 118+86
 OCT. 2010
 DESIGN
 TOLERANCE

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



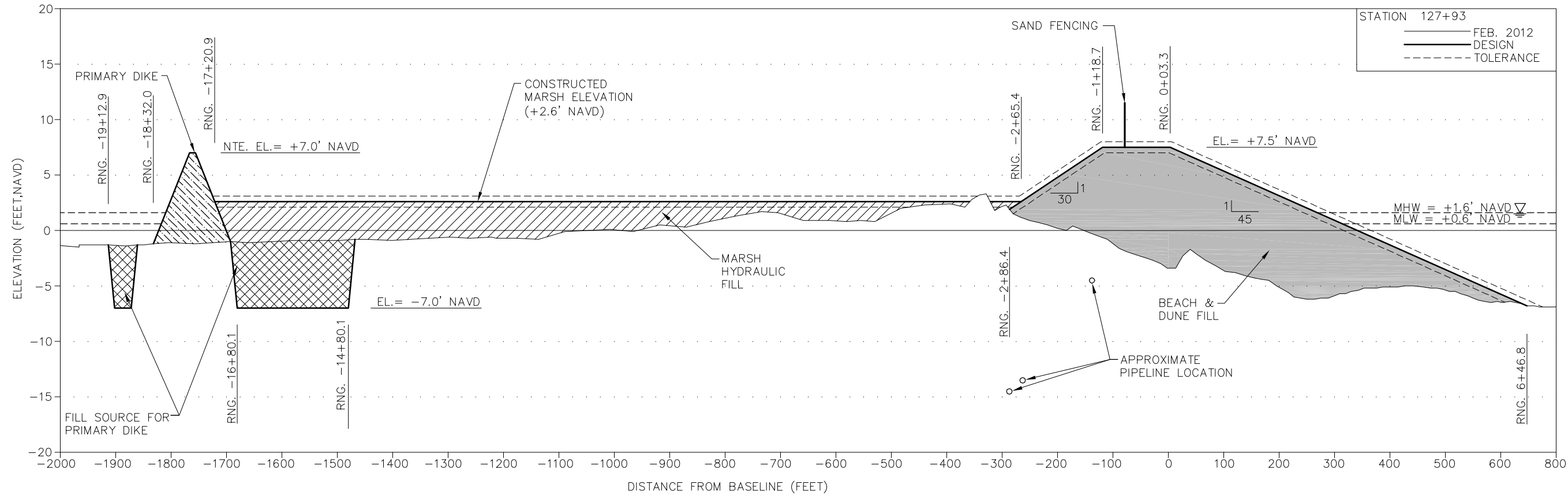
Reference Files:	Designed by:	Checked by:
1. 5/29/09 REVISION SURVEY & MARSH TOLERANCE	GT	AMB
2. 8/2/11 BEACH FILL QUANTITY INCREASE	TW	GT
3. 4/3/12 FAR #6, #7 AND #8	AW	AW

Drawn by:	Date:	Submitted by:	Comm. No.:
TW	10/8/2007	AW	142477

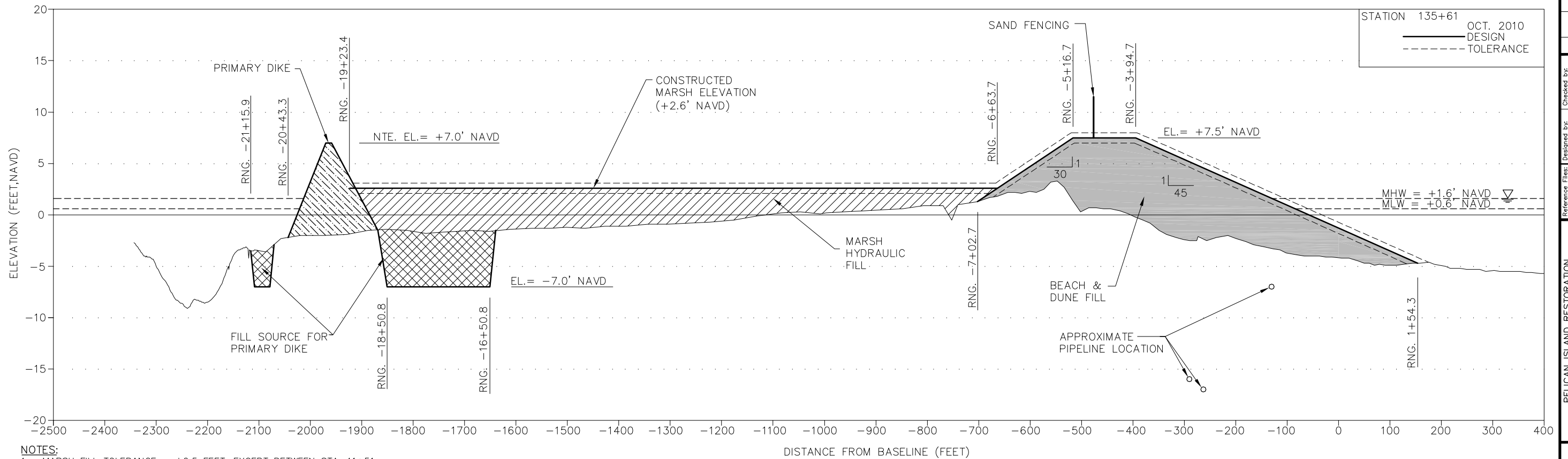
PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

DRAWING NO.
 XS-7
 SHEET 22 OF 31

H:\Users\j26131\Documents\100_Parent Plans\REVISION_04-01-2012\142477-X-sections.dwg - Apr 04, 2012 @ 11:38am - gpr\kryshndk



STATION 127+93
 FEB. 2012
 DESIGN
 TOLERANCE



STATION 135+61
 OCT. 2010
 DESIGN
 TOLERANCE

- NOTES:
- MARSH FILL TOLERANCE = ±0.5 FEET, EXCEPT BETWEEN STA. 11+51 & STA. 28+15 WHERE THERE IS NO LOWER TOLERANCE.
 - BEACH & DUNE FILL TOLERANCE = ±0.5 FEET.
 - CROSS SECTIONS SHOWN ARE FOR 2.15M CUBIC YARDS OF BEACH & DUNE FILL AND 1.6M CUBIC YARDS OF MARSH FILL.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net



1	5/29/09	REVISED SURVEY & MARSH TOLERANCE	Checked by:	AMB
2	8/2/11	BEACH FILL QUANTITY INCREASE	Reviewed by:	GT
3	4/3/12	FAI #6, #7 AND #8	Submitted by:	AW
			Date:	10/8/2007
			Plot Scale:	PAS NOTED
			Comm. No.:	142477

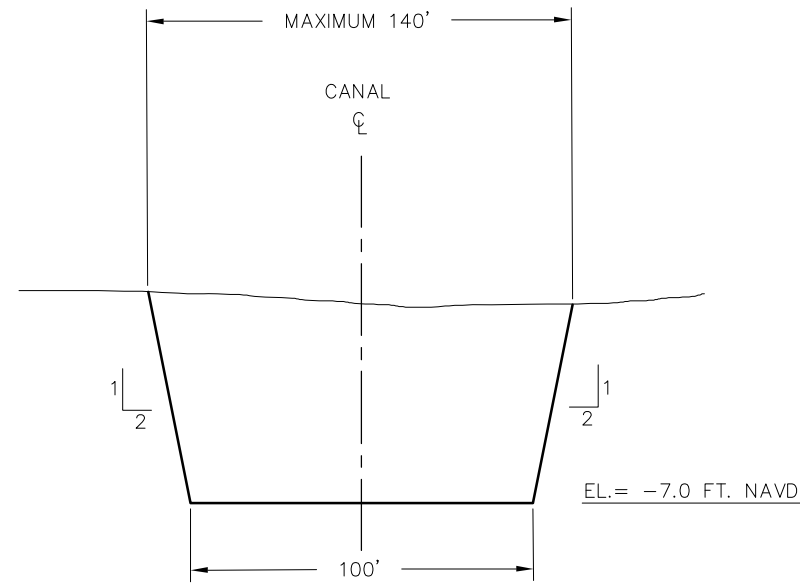
Reference Files:
 Designed by: GT
 Drawn by: TW
 Date: 10/8/2007
 Plot Scale: PAS NOTED
 Comm. No.: 142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 CROSS SECTIONS

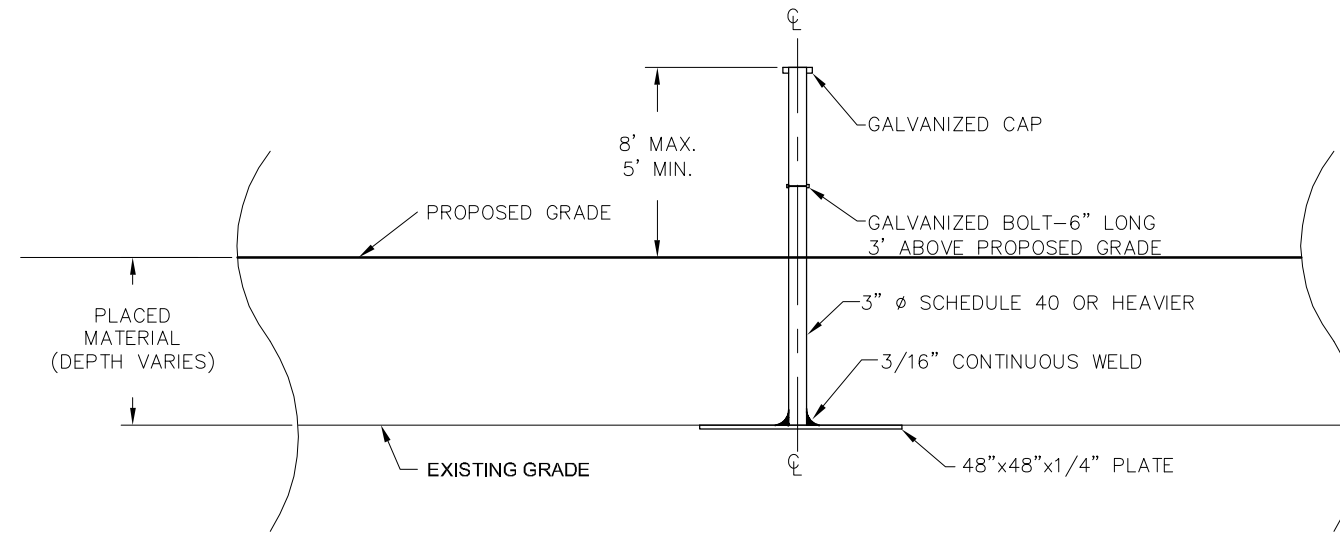
DRAWING NO.

XS-8

SHEET 23 OF 31



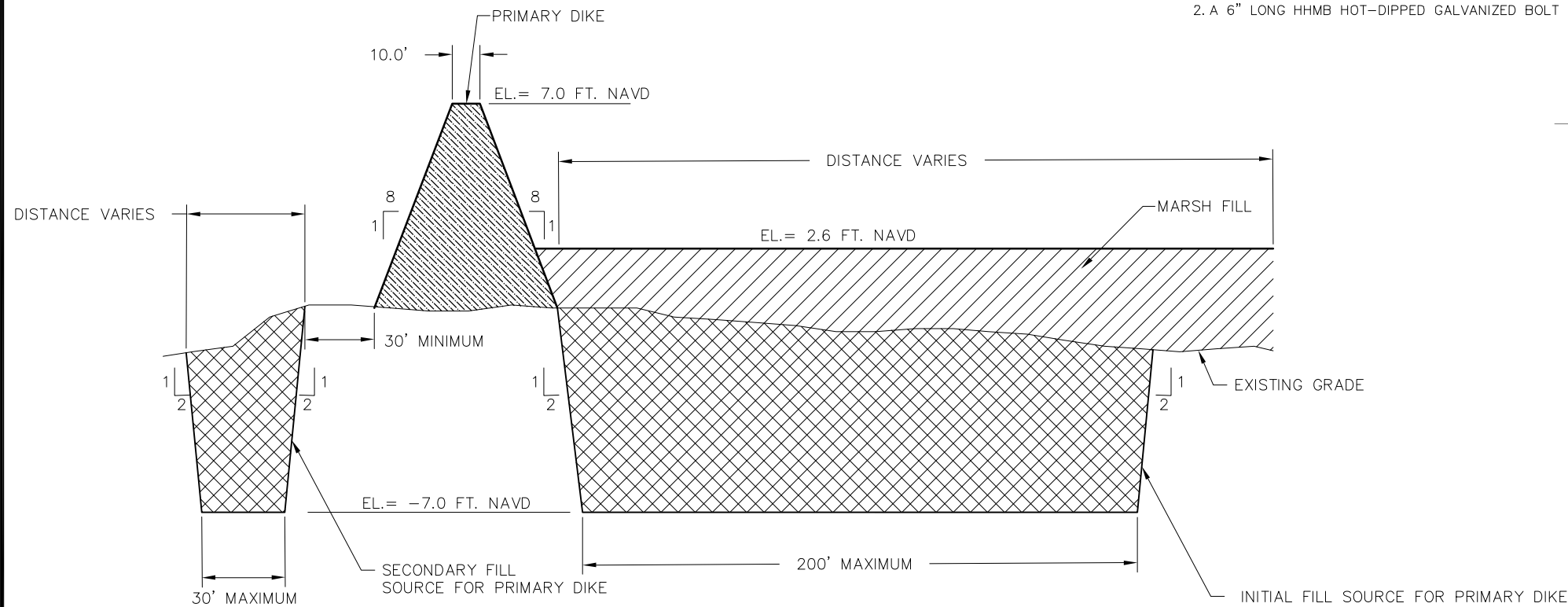
TYPICAL ACCESS CHANNEL CROSS SECTION
NOT TO SCALE



SETTLEMENT PLATE DETAIL
NOT TO SCALE

NOTES:

1. SETTLEMENT PLATES SHALL BE BUILT USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. A 6" LONG HHMB HOT-DIPPED GALVANIZED BOLT & WASHER SHALL BE INSTALLED 3' ABOVE PROPOSED GRADE.



PRIMARY DIKE DETAIL
NOT TO SCALE

NOTES:

1. PRIMARY DIKE DEPICTED IN CROSS SECTION IS MAXIMUM DIKE SIZE. CONTRACTOR MAY CONSTRUCT A SMALLER DIKE AT THEIR DISCRETION.
2. NORTH LIMIT OF MARSH PAYMENT IS THE RANGE SHOWN ON THE PLANS DEFINED BY THE INTERSECTION OF THE MARSH AND PRIMARY DIKE.
3. MARSH FILL TOLERANCE EQUALS $\pm 0.5'$, EXCEPT BETWEEN STA. 11+51 AND STA. 28+00 WHERE THERE IS NO LOWER TOLERANCE.

SETTLEMENT PLATE LOCATIONS		
STATION	RANGE	LOCATION
28+15	0+53	DUNE
28+15	-7+85	MARSH
46+29	-14+29	PRIMARY DIKE
64+43	-4+64	MARSH
82+58	-13+45	PRIMARY DIKE
91+64	-8+23	MARSH
100+71	0+67	DUNE
109+79	-4+26	MARSH
118+86	-15+21	PRIMARY DIKE



REVISION	DATE	DESCRIPTION
1	11/17/10	REVISED SETTLEMENT PLATE LOCATION TABLE, PRIMARY DIKE DETAIL AND ACCESS CANAL CROSS SECTION.
2	12/22/10	REVISED PRIMARY DIKE DETAIL AND SETTLEMENT PLATE LOCATIONS
3	4/5/12	FAA #6, #7 AND #8

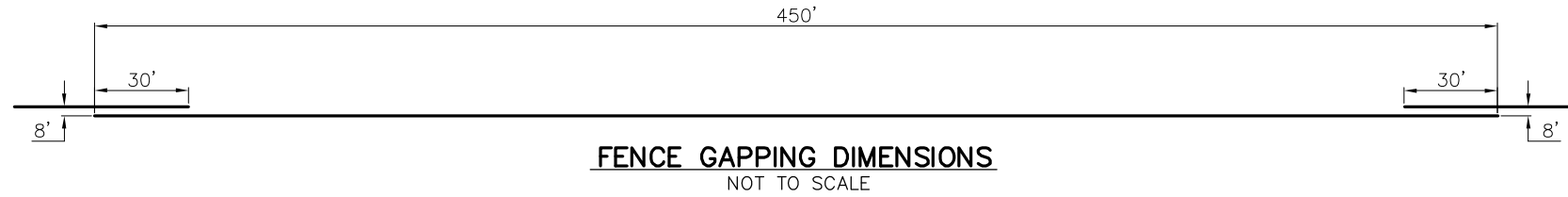
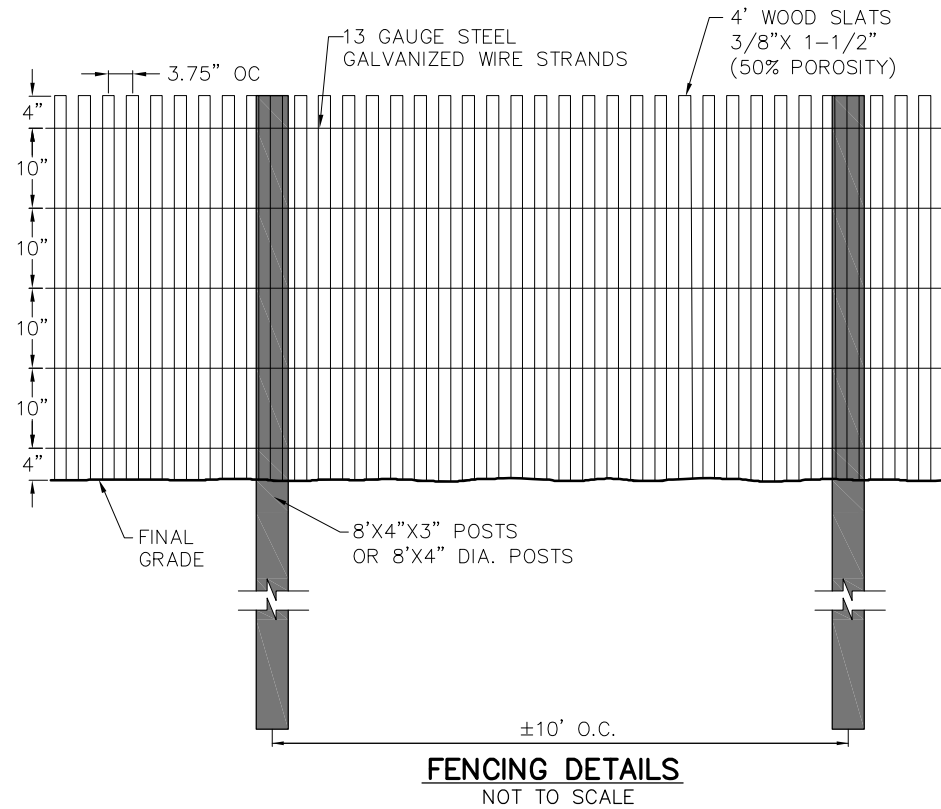
Designed by:	GT	Checked by:	AMB
Drawn by:	AMB	Reviewed by:	GT
Date:	10/8/2007	Submitted by:	AW
Plot Scale:	AS NOTED	Comm. No.:	142477

PELICAN ISLAND RESTORATION
(BA-38-1)
CWPPRA PROJECT
TYPICAL ACCESS CHANNEL CROSS SECTION, PRIMARY DIKE AND SETTLEMENT PLATE DETAIL

DRAWING NO.

DE-1

SHEET 24 OF 31



SAND FENCE LAYOUT POINTS					
EASTING	NORTHING	EASTING	NORTHING	EASTING	NORTHING
3831808.9	278690.0	3835843.8	277524.8	3840311.9	276349.7
3832240.7	278563.4	3836278.8	277409.6	3840746.9	276234.5
3832214.2	278579.5	3836251.9	277425.0	3840715.8	276234.4
3832646.0	278452.9	3836686.9	277309.8	3841150.8	276119.2
3832329.7	278529.0	3836655.8	277309.8	3841123.9	276134.6
3832521.6	278472.8	3837090.8	277194.5	3841558.9	276019.4
3832615.0	278453.7	3837063.9	277210.0	3841527.8	276019.4
3833046.8	278327.1	3837498.9	277094.7	3841697.3	275974.5
				3841967.7	275926.2
3833020.3	278343.2	3837467.8	277094.7		
3833452.1	278216.6	3837902.8	276979.5	3841939.6	275939.4
				3842382.6	275860.3
3833421.1	278217.4	3837875.9	276994.9		
3833852.9	278090.8	3838310.9	276879.7	3842351.7	275857.7
				3842794.7	275778.7
3833826.3	278106.9	3838279.8	276879.6		
3834258.2	277980.3	3838714.8	276764.4	3842766.5	275791.8
				3842992.0	275751.6
3834227.1	277981.1	3838687.9	276779.8	3843208.0	275798.5
3834659.0	277854.5	3839122.9	276664.6		
				3843180.3	275784.3
3834632.4	277870.6	3839091.8	276664.6	3843620.1	275879.8
3835064.2	277744.0	3839526.8	276549.4		
				3843589.1	275881.3
3835033.2	277744.7	3839499.9	276564.8	3844028.8	275976.8
3835218.2	277690.5	3839934.9	276449.6		
3835466.8	277624.7			3844001.2	275962.6
		3839903.8	276449.5	3844196.6	276005.0
3835439.9	277640.1	3840338.8	276334.3		
3835874.9	277524.9				

Coordinates referenced to Louisiana State Plane, South Zone, NAD 1983, US Survey Feet.

H:\Louisiana\2013\CONSTRUCTION\100_Permit Plans\REDESIGN_04-01-2013\142477_Feature_Details.dwg - Apr 05, 2013 9:30am - gpr/jr/ak/ak

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
www.CoastalPlanning.net



REVISED SAND FENCE LAYOUT POINTS AND GAP WIDTH	DATE	BY
1	11/27/10	GT
2	4/23/12	GT

DESIGNED BY	CHECKED BY
GT	AMB
AMB	GT
AMB	GT
10/8/2007	AW
AS NOTED	142477

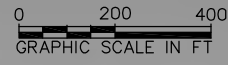
References: Files:
 100REDESIGN.dwg

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 SAND FENCE DETAILS

DRAWING NO.

DE-2

SHEET 25 OF 31



LEGEND:
 ○—○ PIPELINES

- NOTES:**
1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. DEPTH OF COVER MEASURED AUGUST 2008 BY JCLS.

MATCHLINE SEE SHEET 29

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
www.CoastalPlanning.net



Reference Files:	Checked by:
1 11/17/10 ADDED NOTES AND UPDATED AERIAL	AMB
2 12/20/11 REVISED SETTY CROSS SECTION	GT
3 4/5/12 FAR #6, #7 AND #8	GT

Designed by:	Reviewed by:	Submitted by:	Comm. No.:
GT	GT	AW	142477
Drawn by:	Date:	Plot Scale:	
TW	10/8/2007	PAS NOTED	

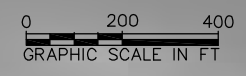
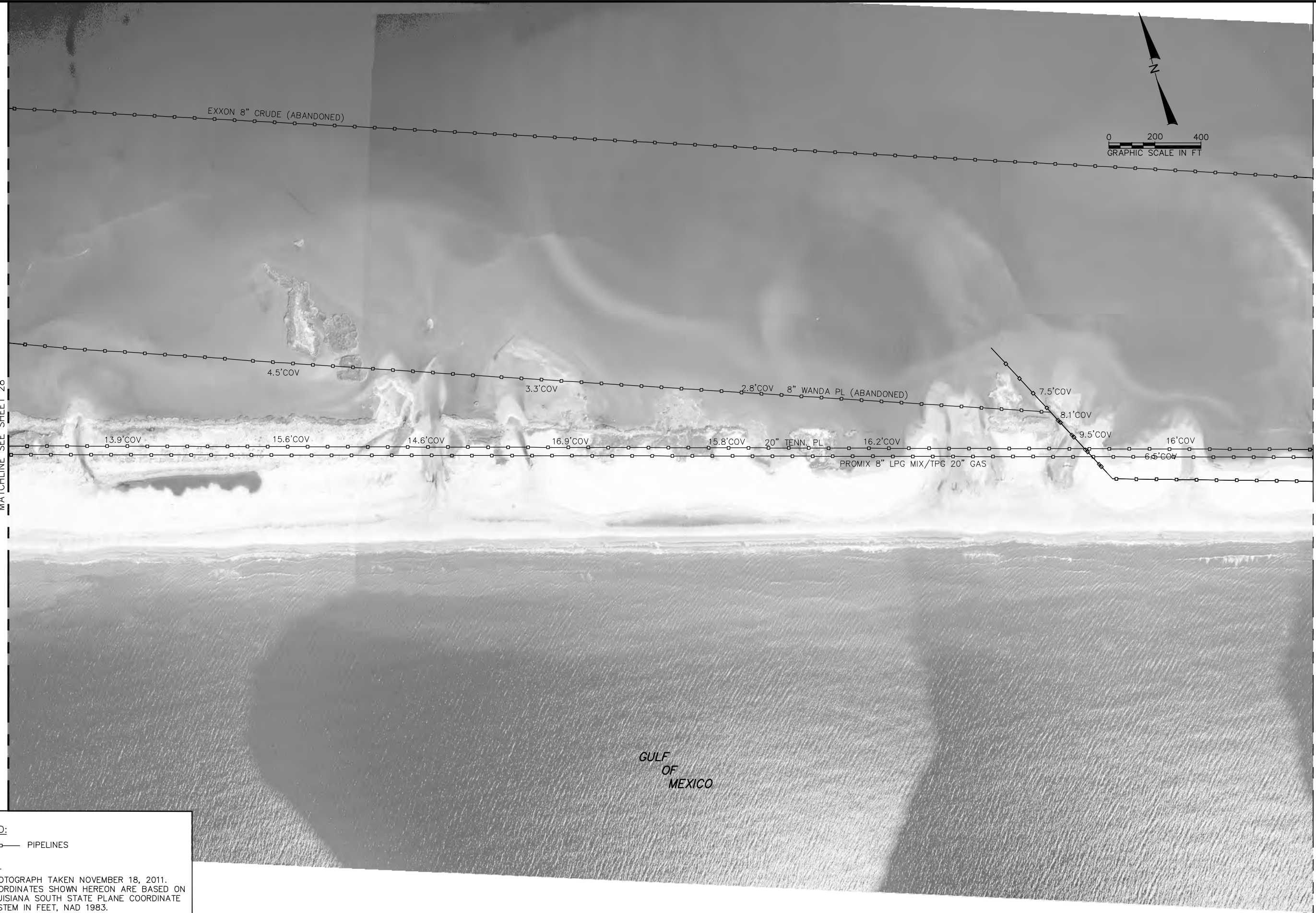
PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWP/PRA PROJECT
 OIL AND GAS INFRASTRUCTURE

DRAWING NO.
 OI-1
 SHEET 26 OF 31

H:\Users\j26131\CONSTRUCTION\100_Permit Plans 12-20-2011\26131_Plan

MATCHLINE SEE SHEET 28

MATCHLINE SEE SHEET 30



LEGEND:
 —○— PIPELINES

NOTES:
 1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. DEPTH OF COVER MEASURED AUGUST 2008 BY JCLS.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



NO.	DATE	DESCRIPTION
1	11/17/10	ADDED NOTES AND UPDATED AERIAL
2	4/5/12	PAK #1 AND #2

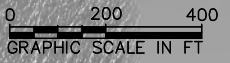
Reference Files: BDDP/PLANNING	Designed by: GT	Checked by: AMB
	Drawn by: TW	Reviewed by: GT
	Date: 10/8/2007	Submitted by: AW
	Plot Scale: AS NOTED	Comm. No.: 142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWP/RA PROJECT
 OIL AND GAS INFRASTRUCTURE

DRAWING NO.
 OI-2
 SHEET 27 OF 31



MATCHLINE SEE SHEET 29



LEGEND:
 □ — PIPELINES

NOTES:

1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
3. DEPTH OF COVER MEASURED AUGUST 2008 BY JCLS.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



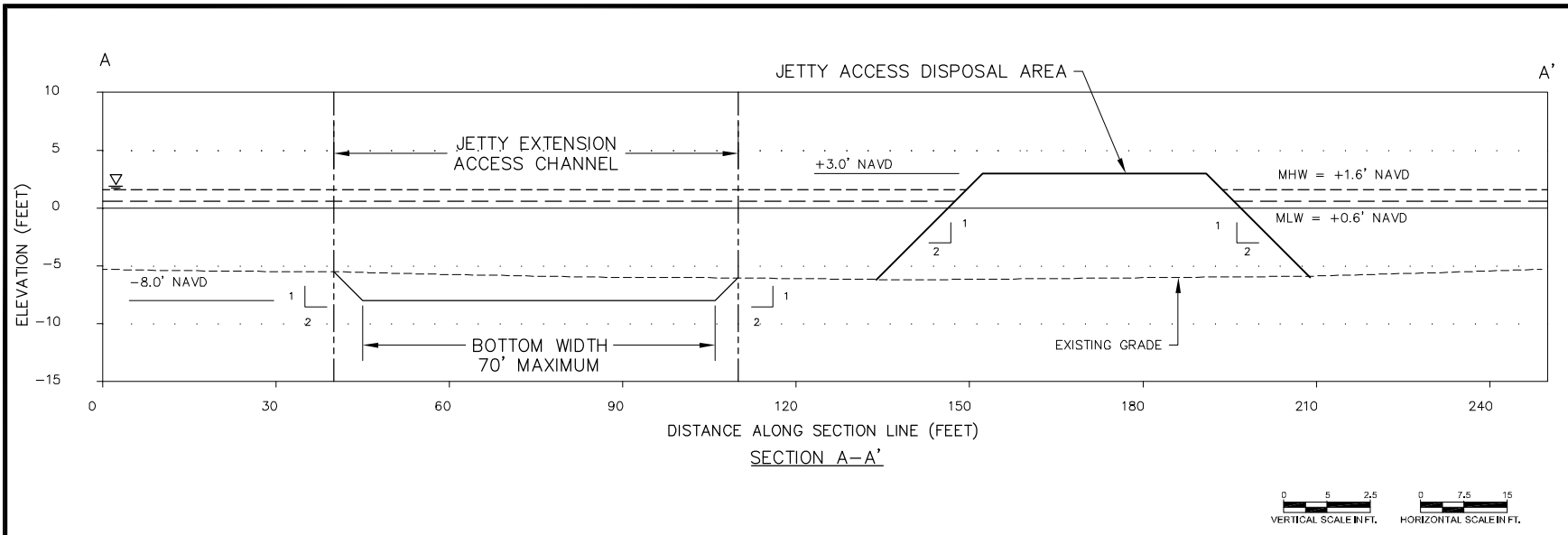
NO.	DATE	DESCRIPTION
1	11/17/10	ADDED NOTES AND UPDATED AERIAL
2	12/20/11	REVISED ACCESS CHANNEL
3	4/3/12	FAI #6, #7 AND #8

Designed by:	GT	Checked by:	AMB
Drawn by:	TW	Reviewed by:	GT
Date:	10/8/2007	Submitted by:	AW
Plot Scale:	PAS NOTED	Comm. No.:	142477

Reference Files:
 BOPREPLICATING

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 OIL AND GAS INFRASTRUCTURE

DRAWING NO.
 01-3
 SHEET 28 OF 31



H:\Louisiana\268131\CONSTRUCTION\JOB_Permit Plans\268131\268131-JETTY-SPUR-2D.dwg - Apr 05, 2012 @ 8:10am - gprkrystfndk

LEGEND:
 - - - - - BASELINE

- NOTES:**
1. AERIAL PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net

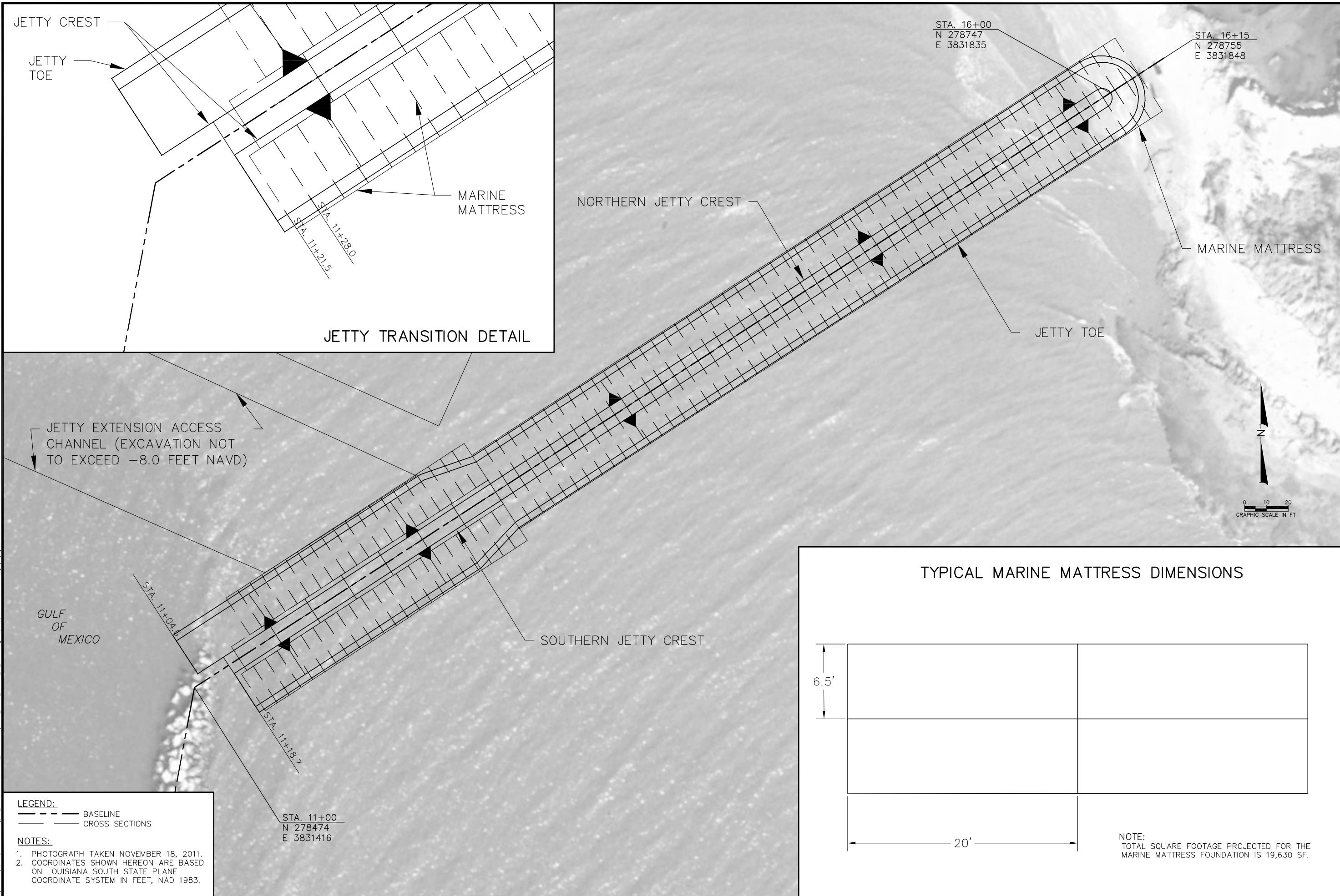


Reference Files:	72631_268131.dwg
Designed by:	GT
Drawn by:	JRC
Date:	10/8/2007
Print Scale:	AS NOTED
Checked by:	AMB
Reviewed by:	GT
Submitted by:	AW
Comm. No.:	142477

1	11/12/10	ADD JETTY EXTENSION
2	2/21/10	REMOVED SPUR AND JETTY ROCK, REMOVED CROSS SECTIONS.
3	12/22/10	REMOVED JETTY REHAB AND UPDATED TITLE
4	12/20/11	REVISED JETTY CROSS SECTION

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 EMPIRE WATERWAY
 JETTY EXTENSION

DRAWING NO.
JE-1
 SHEET 29 OF 31



JETTY CREST
JETTY TOE

MARINE MATTRESS

JETTY TRANSITION DETAIL

NORTHERN JETTY CREST

JETTY TOE

MARINE MATTRESS

SOUTHERN JETTY CREST

JETTY EXTENSION ACCESS CHANNEL (EXCAVATION NOT TO EXCEED -8.0 FEET NAVD)

GULF OF MEXICO

STA. 16+00
N 278747
E 3831835

STA. 16+15
N 278755
E 3831848

STA. 11+28.0
STA. 11+21.5

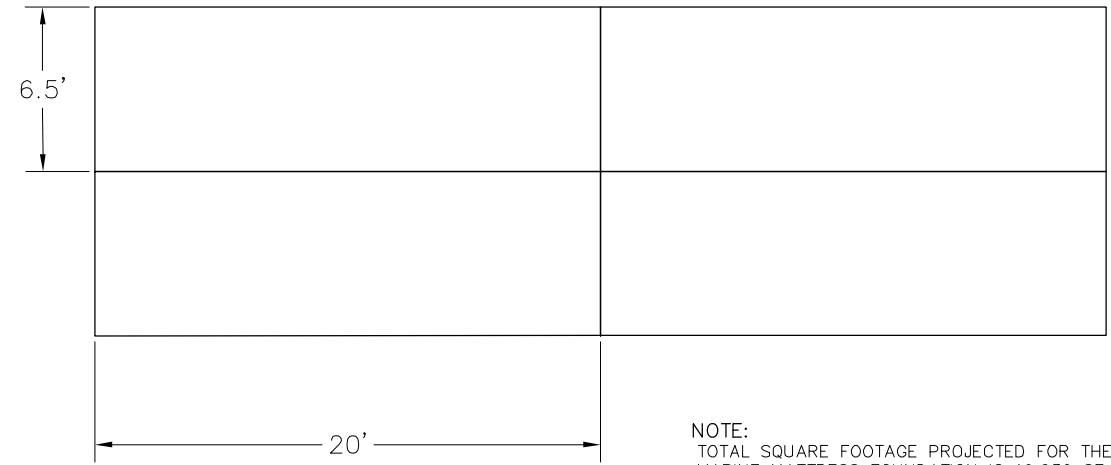
STA. 11+04.6

STA. 11+18.7

STA. 11+00
N 278474
E 3831416



TYPICAL MARINE MATTRESS DIMENSIONS



NOTE:
TOTAL SQUARE FOOTAGE PROJECTED FOR THE MARINE MATTRESS FOUNDATION IS 19,630 SF.

LEGEND:
 - - - - - BASELINE
 ———— CROSS SECTIONS

NOTES:
 1. PHOTOGRAPH TAKEN NOVEMBER 18, 2011.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #4028
 C.O.A. LA #2531
 www.CoastalPlanning.net



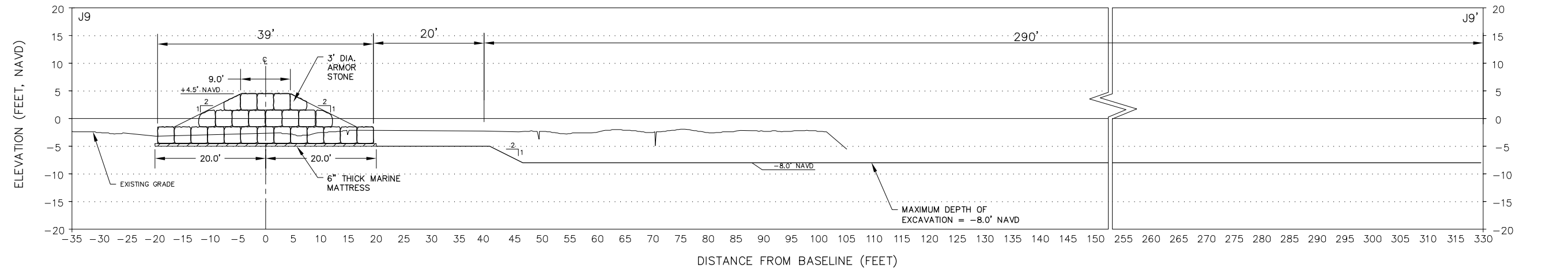
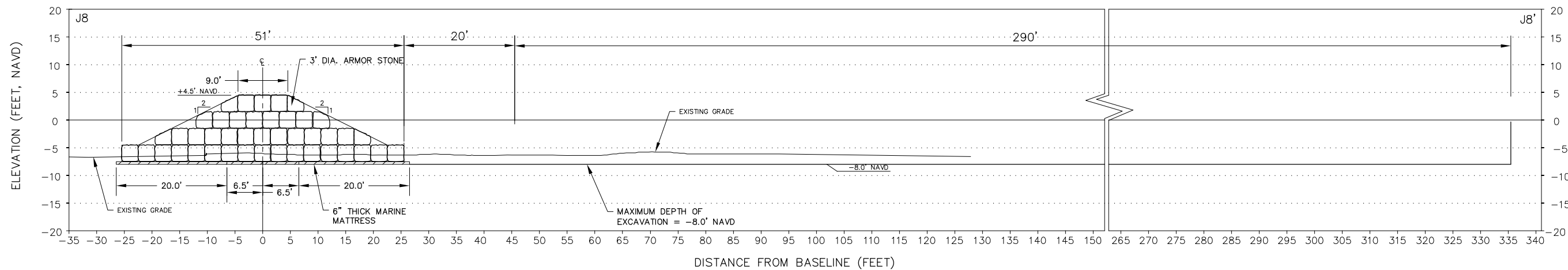
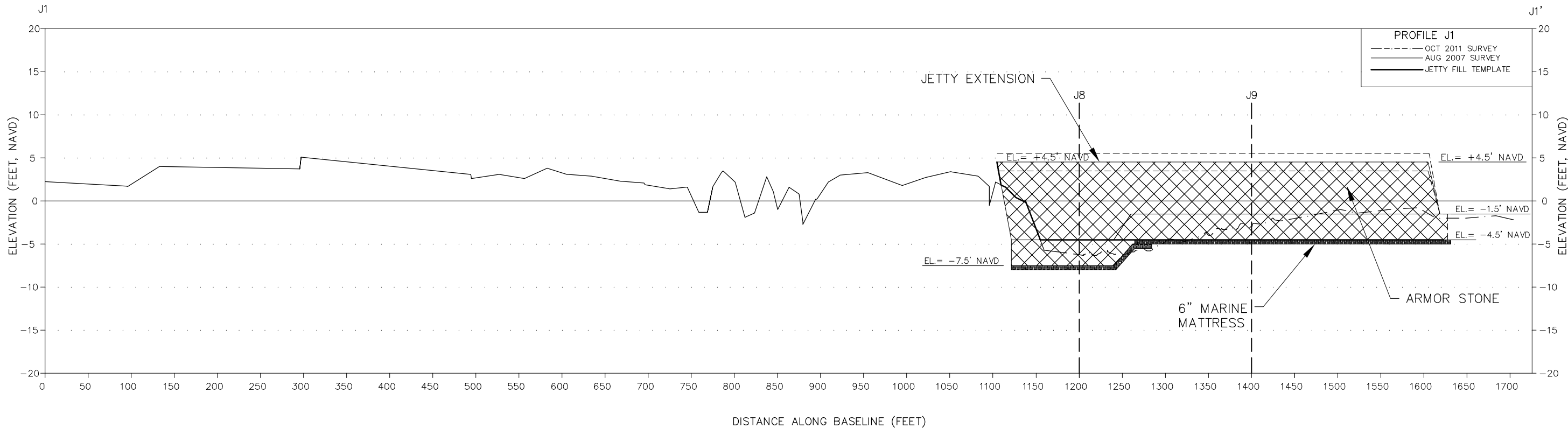
1	11/12/10	ADD JETTY EXTENSION	Checked by:	AMB
2	12/20/11	REVISED JETTY CROSS SECTION	Reviewed by:	GT
			Submitted by:	AW
			Comm. No.:	142477

Designed by:	GT
Drawn by:	JRC
Date:	10/8/2007
Plot Scale:	AS NOTED

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 EMPIRE WATERWAY
 JETTY EXTENSION DETAIL

DRAWING NO.
JE-2
 SHEET 30 OF 31

H:\Louisiana\26131\CONSTRUCTION\100_Permit Plans\REVISION_04-01-2012\142477\MARINE_MATTRESS_PVI_revised.dwg - Apr 05, 2012 @ 11:20am - gpr\stj\stj.dwg



NOTE:

1. CROSS SECTION J1 VIEWED LOOKING WEST.
2. EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.
3. EXCAVATE EXISTING PROFILE AS NECESSARY TO PLACE ARMOR STONE TO ACHIEVE THE SPECIFIC GRADE.
4. VERTICAL TOLERANCES ARE ± 6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ±2 FEET.
5. ARMOR STONE TO BE ACQUIRED FROM AN OFFSITE LOCATION.
6. ARMOR STONE ON THE JETTY RANGES FROM 1.7 TO 2.8 TONS.



Reference Files:	11/12/10 ADD JETTY EXTENSION
Designed by:	GT
Drawn by:	JRC
Date:	10/8/2007
Checked by:	AMB
Reviewed by:	GT
Submitted by:	AW
Plot Scale:	AS NOTED
Comm. No.:	142477

Reference Files:	11/12/10 ADD JETTY EXTENSION
Designed by:	GT
Drawn by:	JRC
Date:	10/8/2007
Checked by:	AMB
Reviewed by:	GT
Submitted by:	AW
Plot Scale:	AS NOTED
Comm. No.:	142477

PELICAN ISLAND RESTORATION
 (BA-38-1)
 CWPRA PROJECT
 JETTY
 CROSS SECTIONS