

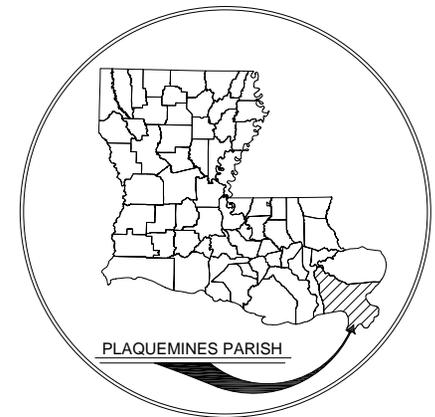
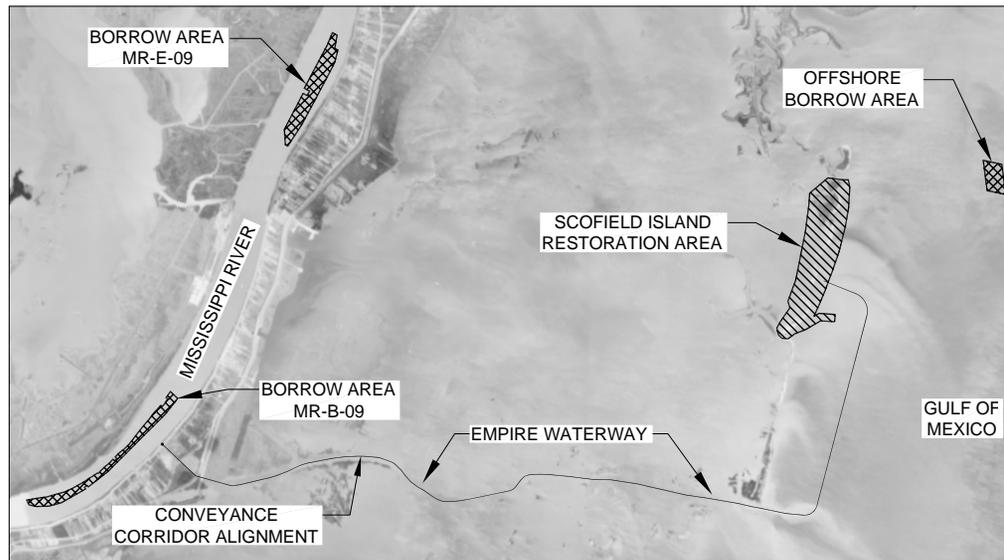
STATE OF LOUISIANA
OFFICE OF COASTAL PROTECTION & RESTORATION
RESTORATION DIVISION

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION
STATE PROJECT NO. BA-40

PLAQUEMINES PARISH, LOUISIANA
PERMIT (MVN2008-3033-EFF)

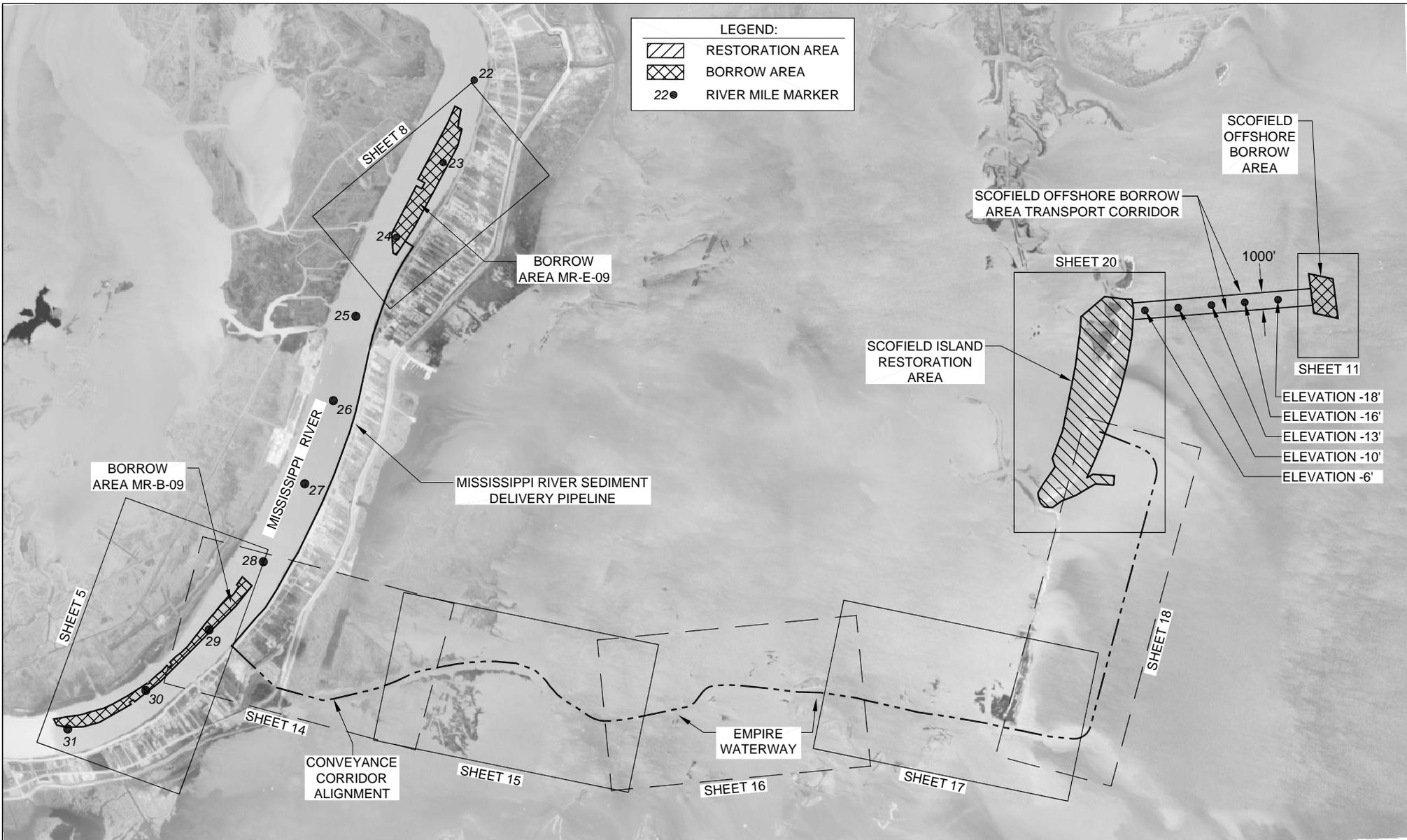
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THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION.

BY	DESCRIPTION	DATE		OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	TITLE SHEET		
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011					STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
							FEDERAL PROJECT NUMBER: BA-40	SHEET 1 OF 36
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.				



NOTES:

1. AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE, NOVEMBER 2007.
2. OFFSHORE SEABED ELEVATIONS PROVIDED BY SHAW, JULY 2010.
(FILENAME: W-10_DATA TO DATE_7-29-10_COMPLETE_CORRECTED.CSV)
3. ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

SJB GROUP, LLC
QUALITY BY DESIGN

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

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

STATE PROJECT NUMBER: BA-40

FEDERAL PROJECT NUMBER: BA-40

PROJECT LAYOUT

DATE: NOVEMBER, 2010

SHEET 2 OF 36

DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 2 OF 36

MR-B-09 BORROW AREA BOUNDARY

PT NO	LATITUDE	LONGITUDE	PT NO	LATITUDE	LONGITUDE
1	29°24'45.2422" N	89°36'09.7493" W	20	29°23'11.6333" N	89°35'03.4489" W
2	29°24'30.3531" N	89°36'07.7234" W	21	29°23'00.4670" N	89°34'48.9994" W
3	29°24'15.9938" N	89°36'03.4018" W	22	29°22'59.7247" N	89°34'49.7472" W
4	29°24'10.0886" N	89°36'00.3781" W	23	29°22'56.8699" N	89°34'46.0534" W
5	29°24'01.3914" N	89°35'54.9725" W	24	29°22'53.4417" N	89°34'40.4374" W
6	29°23'53.0554" N	89°35'48.7700" W	25	29°22'54.4229" N	89°34'39.6726" W
7	29°23'50.2020" N	89°35'46.5346" W	26	29°22'52.7815" N	89°34'36.9278" W
8	29°23'49.9505" N	89°35'46.9878" W	27	29°22'47.7779" N	89°34'40.5824" W
9	29°23'48.4521" N	89°35'45.9032" W	28	29°22'57.2098" N	89°34'53.8559" W
10	29°23'48.7401" N	89°35'45.3894" W	29	29°23'19.9927" N	89°35'19.0513" W
11	29°23'44.4509" N	89°35'41.5285" W	30	29°23'42.7544" N	89°35'44.2973" W
12	29°23'40.6841" N	89°35'37.8166" W	31	29°23'58.3182" N	89°35'57.8853" W
13	29°23'38.3587" N	89°35'35.2856" W	32	29°23'59.2200" N	89°35'56.5353" W
14	29°23'37.4665" N	89°35'36.1662" W	33	29°24'01.3403" N	89°35'58.1950" W
15	29°23'34.8338" N	89°35'32.8702" W	34	29°24'00.4385" N	89°35'59.5450" W
16	29°23'35.4160" N	89°35'32.2638" W	35	29°24'19.2666" N	89°36'11.4018" W
17	29°23'32.4613" N	89°35'29.2276" W	36	29°24'28.8394" N	89°36'14.2831" W
18	29°23'25.3109" N	89°35'21.3253" W	37	29°24'39.0177" N	89°36'14.5406" W
19	29°23'21.9137" N	89°35'17.2617" W	38	29°24'44.4853" N	89°36'13.0293" W

MR-E-09 BORROW AREA BOUNDARY

PT NO	LATITUDE	LONGITUDE	PT NO	LATITUDE	LONGITUDE
1	29°21'20.8645" N	89°30'56.4875" W	10	29°20'43.0908" N	89°29'19.6358" W
2	29°21'21.2146" N	89°30'44.0254" W	11	29°20'40.3163" N	89°29'21.3729" W
3	29°21'06.3499" N	89°30'12.5101" W	12	29°20'42.4396" N	89°29'32.9235" W
4	29°21'02.9005" N	89°30'14.6693" W	13	29°20'39.7809" N	89°29'34.6176" W
5	29°21'00.6061" N	89°30'09.8938" W	14	29°20'42.6991" N	89°29'44.3668" W
6	29°21'04.9547" N	89°30'07.1773" W	15	29°20'56.9765" N	89°30'14.0907" W
7	29°20'51.3796" N	89°29'38.9345" W	16	29°21'08.7091" N	89°30'38.9650" W
8	29°20'48.9944" N	89°29'33.9820" W	17	29°21'19.1750" N	89°30'57.5448" W
9	29°20'46.7365" N	89°29'28.9520" W			

OFFSHORE BORROW AREA BOUNDARY

PT NO	LATITUDE	LONGITUDE
1	29°12'01.4418" N	89°31'51.2472" W
2	29°12'15.7557" N	89°31'47.5434" W
3	29°12'18.4314" N	89°31'20.8025" W
4	29°12'04.1188" N	89°31'24.5073" W

GENERAL NOTES:

1. ALL AERIAL IMAGERY FROM U.S. DEPARTMENT OF AGRICULTURE, NOVEMBER 2007.
2. COORDINATES ARE NAD83, LOUISIANA STATE PLANE, SOUTHERN ZONE, U.S. SURVEY FEET.
3. ALL ELEVATIONS ARE IN NAVD88, U.S. SURVEY FEET.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 72 HOURS PRIOR TO ANY EXCAVATION.
6. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE THE CONVEYANCE CORRIDOR ALONG THE EMPIRE WATERWAY FROM THE MISSISSIPPI RIVER TO THE GULF OF MEXICO.
7. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

BY	DESCRIPTION	DATE	 <p>COASTAL ENGINEERING CONSULTANTS, INC. STB GROUP, LLC QUALITY BY DESIGN</p>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	ALIGNMENT TABLES AND GENERAL NOTES
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011			STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
					FEDERAL PROJECT NUMBER: BA-40	SHEET 3 OF 36
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.		

CONVEYANCE CORRIDOR ALIGNMENT

EARTHEN CONTAINMENT
DIKE ALIGNMENT

STATION	LATITUDE	LONGITUDE									
000+00	29°23'00.3065" N	89°35'21.0524" W	270+00	29°18'59.6538" N	89°36'13.3325" W	530+00	29°14'50.9387" N	89°36'31.4444" W	665+00	29°14'01.9447" N	89°34'22.1047" W
010+00	29°22'53.2297" N	89°35'28.9566" W	280+00	29°18'49.9385" N	89°36'11.1830" W	535+00	29°14'46.0171" N	89°36'32.0462" W	670+00	29°14'00.6097" N	89°34'16.6706" W
020+00	29°22'46.1528" N	89°35'36.8604" W	290+00	29°18'40.2198" N	89°36'09.0329" W	540+00	29°14'41.0863" N	89°36'32.5280" W	675+00	29°13'59.2747" N	89°34'11.2365" W
030+00	29°22'39.0758" N	89°35'44.7640" W	300+00	29°18'30.4979" N	89°36'06.8822" W	545+00	29°14'36.3912" N	89°36'30.9343" W	680+00	29°13'57.9396" N	89°34'05.8024" W
040+00	29°22'31.0274" N	89°35'50.7693" W	310+00	29°18'23.2624" N	89°35'59.5454" W	550+00	29°14'32.9411" N	89°36'26.9690" W	685+00	29°13'56.6044" N	89°34'00.3684" W
050+00	29°22'21.5221" N	89°35'53.9276" W	320+00	29°18'15.5040" N	89°35'53.0454" W	555+00	29°14'31.2981" N	89°36'21.6663" W	690+00	29°13'55.2692" N	89°33'54.9344" W
060+00	29°22'12.0168" N	89°35'57.0858" W	330+00	29°18'05.6179" N	89°35'52.7294" W	560+00	29°14'24.8141" N	89°36'21.1980" W	695+00	29°13'53.9339" N	89°33'49.5004" W
070+00	29°22'02.3642" N	89°35'58.2315" W	340+00	29°17'55.7533" N	89°35'53.6010" W	565+00	29°14'28.6309" N	89°36'10.7963" W	700+00	29°13'52.5986" N	89°33'44.0665" W
080+00	29°21'52.6698" N	89°35'55.9907" W	350+00	29°17'45.9178" N	89°35'54.8850" W	570+00	29°14'27.2972" N	89°36'05.3613" W	705+00	29°13'51.2632" N	89°33'38.6326" W
090+00	29°21'43.0032" N	89°35'53.5542" W	360+00	29°17'36.1063" N	89°35'56.4002" W	575+00	29°14'25.9634" N	89°35'59.9264" W	710+00	29°13'50.3340" N	89°33'33.1030" W
100+00	29°21'33.3939" N	89°35'50.8804" W	370+00	29°17'26.2981" N	89°35'57.9232" W	580+00	29°14'24.6296" N	89°35'54.4915" W	715+00	29°13'50.9551" N	89°33'27.5271" W
110+00	29°21'24.0816" N	89°35'47.0577" W	380+00	29°17'16.4162" N	89°35'58.4649" W	585+00	29°14'23.2957" N	89°35'49.0567" W	720+00	29°13'53.1534" N	89°33'22.4903" W
120+00	29°21'15.0438" N	89°35'42.4590" W	390+00	29°17'06.5917" N	89°35'59.6439" W	590+00	29°14'21.9617" N	89°35'43.6219" W	725+00	29°13'56.6800" N	89°33'18.5512" W
130+00	29°21'05.5763" N	89°35'39.2574" W	400+00	29°16'56.8243" N	89°36'01.4832" W	595+00	29°14'20.6277" N	89°35'38.1871" W	730+00	29°14'01.1131" N	89°33'16.0479" W
140+00	29°20'55.8215" N	89°35'37.3316" W	410+00	29°16'47.1322" N	89°36'03.7265" W	600+00	29°14'19.2936" N	89°35'32.7524" W	735+00	29°14'05.6857" N	89°33'13.8871" W
150+00	29°20'46.0495" N	89°35'35.5453" W	420+00	29°16'37.5224" N	89°36'06.4349" W	605+00	29°14'17.9594" N	89°35'27.3177" W	740+00	29°14'10.2583" N	89°33'11.7263" W
160+00	29°20'36.1935" N	89°35'34.5421" W	430+00	29°16'27.9019" N	89°36'09.0975" W	610+00	29°14'16.6252" N	89°35'21.8831" W	745+00	29°14'14.8427" N	89°33'09.5981" W
170+00	29°20'26.3015" N	89°35'34.3180" W	440+00	29°16'18.2872" N	89°36'11.7867" W	615+00	29°14'15.2909" N	89°35'16.4485" W	750+00	29°14'19.4161" N	89°33'07.4395" W
180+00	29°20'16.4413" N	89°35'35.2308" W	450+00	29°16'08.5886" N	89°36'13.9973" W	620+00	29°14'13.9566" N	89°35'11.0139" W	755+00	29°14'23.9895" N	89°33'05.2809" W
190+00	29°20'06.8939" N	89°35'37.8701" W	460+00	29°15'58.8043" N	89°36'15.7170" W	625+00	29°14'12.6222" N	89°35'05.5794" W			
200+00	29°19'58.3517" N	89°35'43.2516" W	470+00	29°15'49.0734" N	89°36'17.7924" W	630+00	29°14'11.2877" N	89°35'00.1449" W			
210+00	29°19'51.8830" N	89°35'51.7533" W	480+00	29°15'39.3407" N	89°36'19.8571" W	635+00	29°14'09.9532" N	89°34'54.7105" W			
220+00	29°19'45.0247" N	89°35'59.8186" W	490+00	29°15'29.6674" N	89°36'22.2272" W	640+00	29°14'08.6186" N	89°34'49.2761" W			
230+00	29°19'36.7821" N	89°36'06.0428" W	500+00	29°15'20.0433" N	89°36'24.8483" W	645+00	29°14'07.2839" N	89°34'43.8418" W			
240+00	29°19'28.6648" N	89°36'12.4979" W	510+00	29°15'10.3615" N	89°36'27.1973" W	650+00	29°14'05.9492" N	89°34'38.4074" W			
250+00	29°19'19.3099" N	89°36'15.7284" W	520+00	29°15'00.6940" N	89°36'29.6276" W	655+00	29°14'04.6144" N	89°34'32.9732" W			
260+00	29°19'09.4375" N	89°36'15.0531" W	525+00	29°14'55.8603" N	89°36'30.8427" W	660+00	29°14'03.2796" N	89°34'27.5389" W			

POINT NO.	LATITUDE	LONGITUDE
01	29°14'48.4746" N	89°33'43.3224" W
02	29°14'52.9330" N	89°33'39.8532" W
03	29°14'50.5848" N	89°33'34.8530" W
04	29°14'48.5601" N	89°33'30.6524" W
05	29°14'39.5060" N	89°33'34.0191" W
06	29°14'38.2954" N	89°33'35.2905" W
07	29°14'36.3339" N	89°33'31.4171" W
08	29°14'38.7819" N	89°33'31.0494" W
09	29°14'47.8887" N	89°33'28.5450" W
10	29°14'49.2956" N	89°33'23.2019" W
11	29°14'47.5329" N	89°33'17.9254" W
12	29°14'45.7299" N	89°33'12.6689" W
13	29°14'44.8808" N	89°33'10.2611" W
14	29°14'43.0972" N	89°33'04.9552" W
15	29°14'42.0532" N	89°32'59.4342" W
16	29°14'40.9672" N	89°32'53.9255" W
17	29°14'39.9281" N	89°32'48.4031" W
18	29°14'38.8405" N	89°32'42.8948" W
19	29°14'37.89251" N	89°32'37.3896" W
20	29°14'36.8688" N	89°32'31.8628" W
21	29°14'35.7746" N	89°32'26.3565" W
22	29°14'34.7293" N	89°32'20.8360" W
23	29°14'34.0312" N	89°32'15.2145" W
24	29°14'33.3259" N	89°32'09.5951" W
25	29°14'32.5855" N	89°32'03.9859" W
26	29°14'31.8717" N	89°31'58.3690" W
27	29°14'31.1760" N	89°31'48.6378" W
28	29°14'19.1227" N	89°31'37.3441" W
29	29°14'08.0183" N	89°31'39.1399" W

PROBABLE
BOOSTER PUMP LOCATIONS

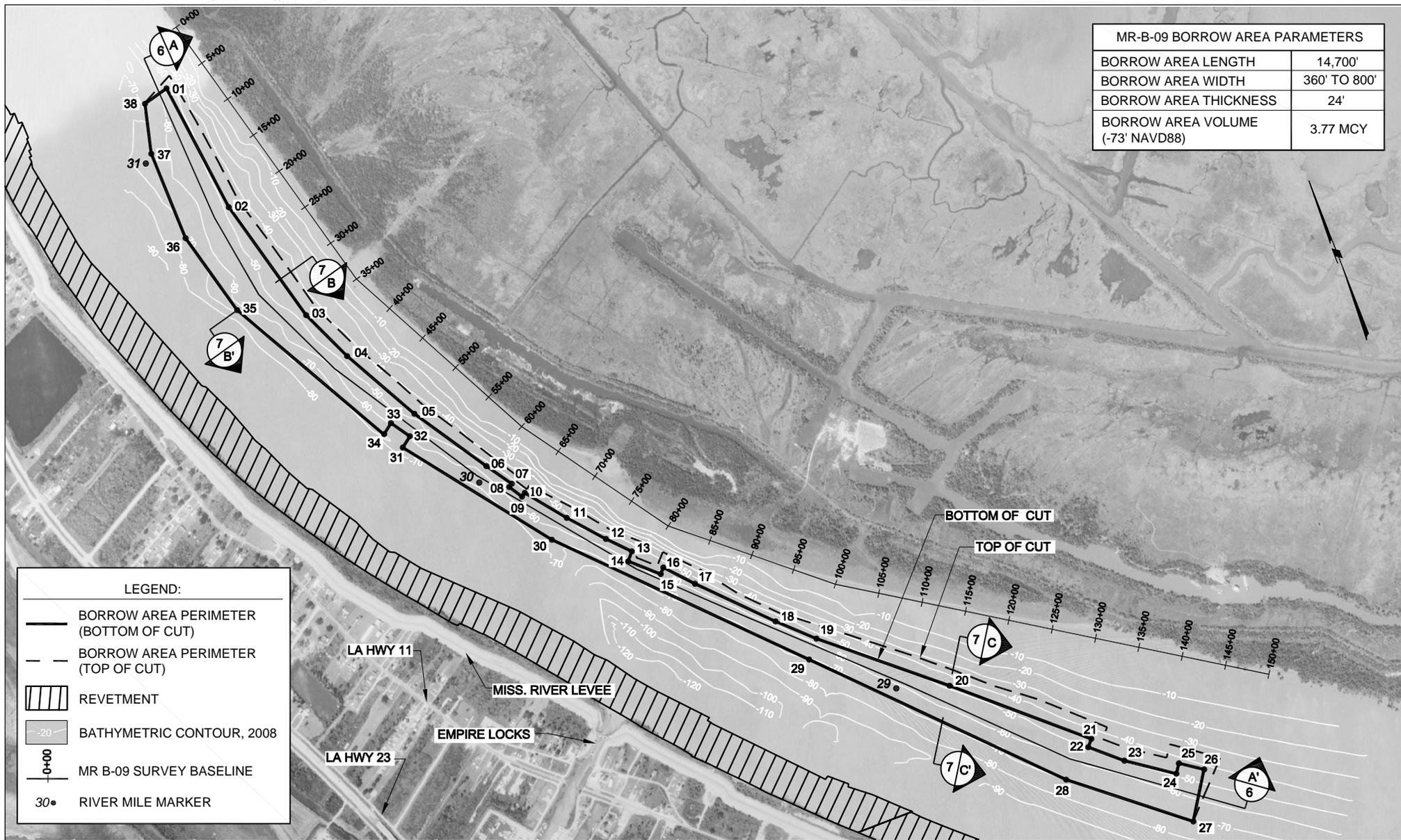
NAVIGATION CROSSINGS

BOOSTER	LATITUDE	LONGITUDE
NO. 1	29°22'00.4216" N	89°35'57.7521" W
NO. 2	29°21'45.3690" N	89°35'54.1330" W
NO. 3	29°21'00.1155" N	89°35'38.1793" W
NO. 4	29°19'32.9358" N	89°36'09.1849" W
NO. 5	29°18'19.4324" N	89°35'54.8845" W
NO. 6	29°16'10.7988" N	89°36'13.6053" W
NO. 7	29°15'42.3009" N	89°36'19.2305" W

BOOSTER	LATITUDE	LONGITUDE
NC-1	29°21'12.3540" N	89°35'41.2901" W
NC-2	29°20'16.2645" N	89°35'35.2511" W
NC-3	29°18'00.9327" N	89°35'52.9824" W
NC-4	29°16'50.8808" N	89°36'02.6113" W
NC-5	29°16'01.4430" N	89°36'15.2594" W
NC-6	29°15'32.0311" N	89°36'21.5317" W

BY MTP	DESCRIPTION	DATE		OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	ALIGNMENT TABLES AND GENERAL NOTES
	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011			STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-40	SHEET 4 OF 36

MR-B-09 BORROW AREA PARAMETERS	
BORROW AREA LENGTH	14,700'
BORROW AREA WIDTH	360' TO 800'
BORROW AREA THICKNESS	24'
BORROW AREA VOLUME (-73' NAVD88)	3.77 MCY



LEGEND:	
	BORROW AREA PERIMETER (BOTTOM OF CUT)
	BORROW AREA PERIMETER (TOP OF CUT)
	REVETMENT
	BATHYMETRIC CONTOUR, 2008
	MR B-09 SURVEY BASELINE
	RIVER MILE MARKER

- NOTES:**
- SEE SHEETS 6 & 7 FOR TYPICAL DESIGN CROSS SECTIONS. SEE SHEET 3 FOR PERIMETER POINTS OF INFLECTION.
 - BATHYMETRIC SURVEYS PERFORMED BY ALPINE OCEAN SEISMIC SURVEY, INC., 2008.
 - REQUEST PERMIT FOR BOTH MISSISSIPPI RIVER BORROW AREAS, MR-B-09 AND MR-E-09, TO PROMOTE COMPETITIVE CONSTRUCTION CONTRACT BIDS BASED ON AVAILABLE DREDGE EQUIPMENT. SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.
 - EXCAVATION OF BORROW AREA MR-B-09 SHALL BE RESTRICTED TO HOPPER DREDGE ONLY.



BY MTP	DESCRIPTION CMD/USACE/STAKEHOLDER COMMENT RESPONSE	DATE 02/01 2011	 COASTAL ENGINEERING CONSULTANTS, INC STB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	BORROW AREA MR-B-09 PLAN VIEW
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-40	SHEET 5 OF 36

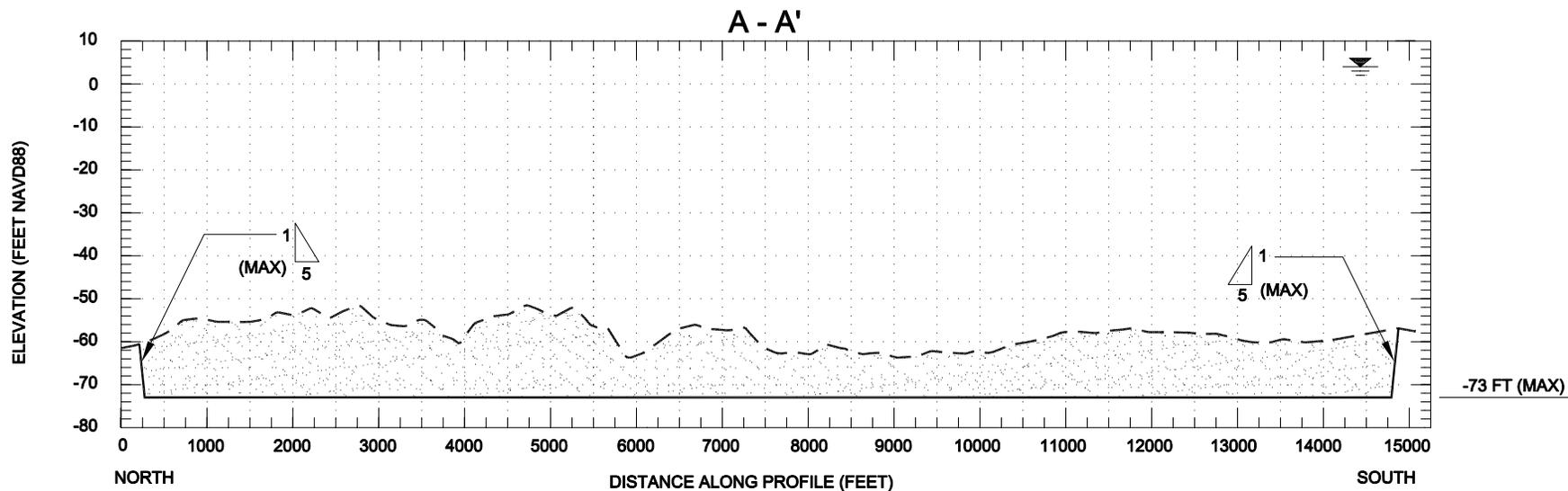
LEGEND:

 BEACH/DUNE FILL BORROW AREA

 NOVEMBER 2008

 DESIGN

SCALE:
H: 1" = 2000'
V: 1" = 40'



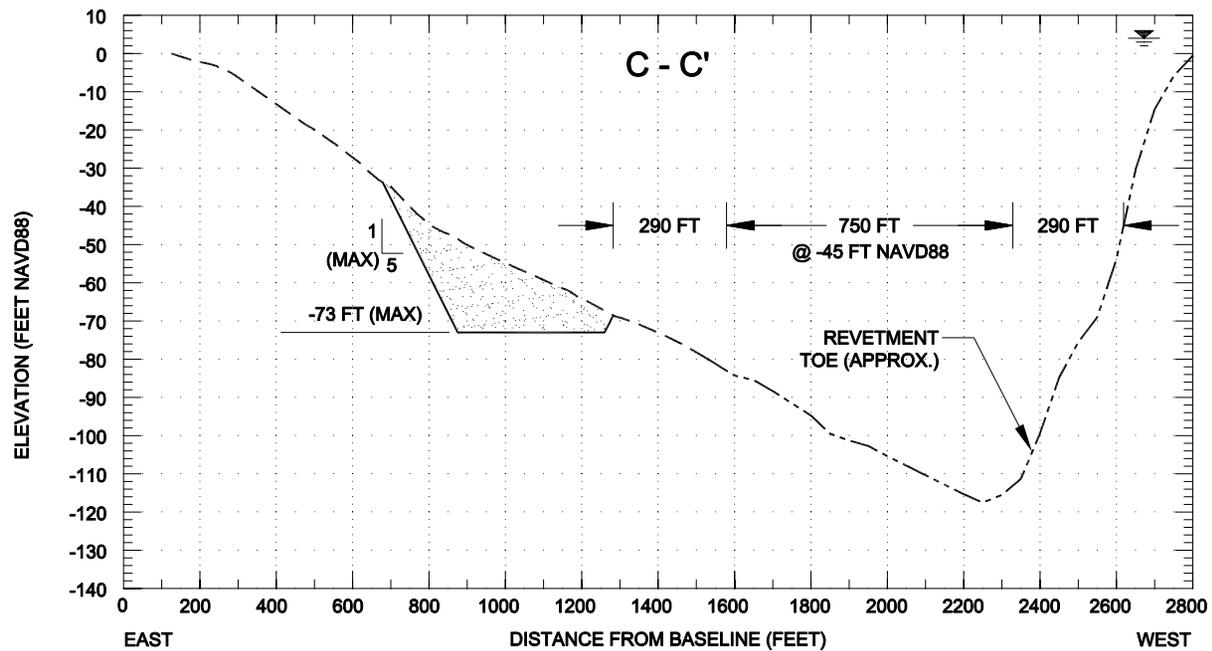
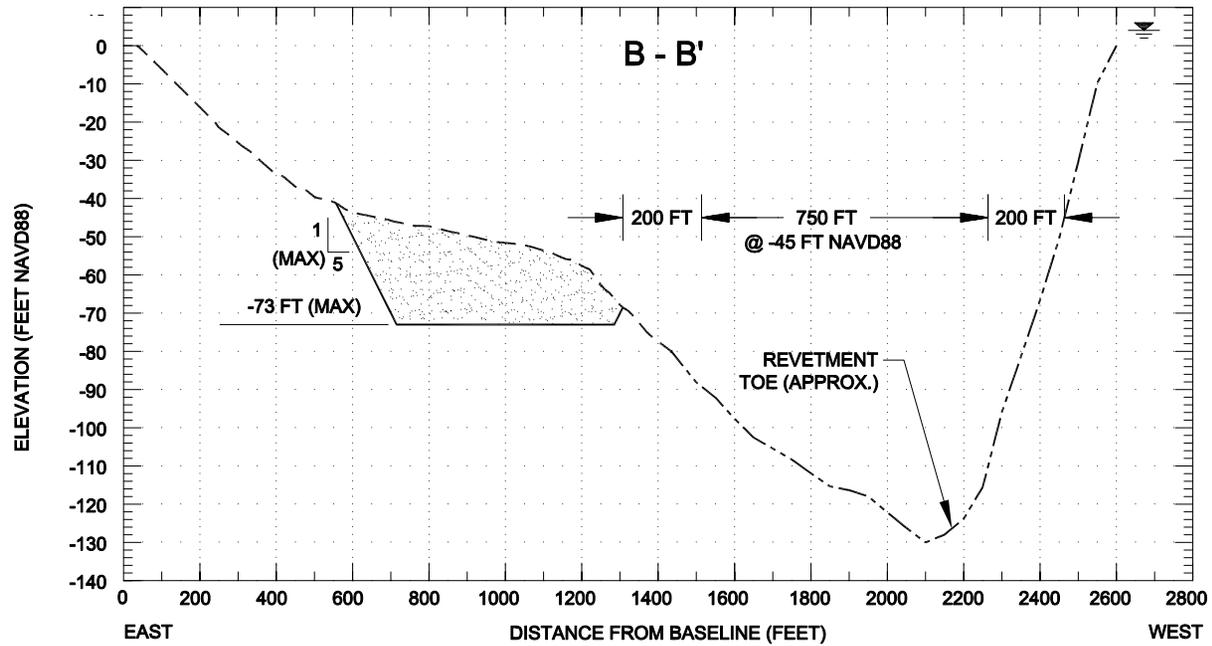
NOTES:
1. BATHYMETRIC SURVEYS PERFORMED BY ALPINE OCEAN SEISMIC SURVEY, INC., 2008.

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC.	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	BORROW AREA MR-B-09 DESIGN SECTION
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				
			 SJB GROUP, LLC QUALITY BY DESIGN		STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-40	SHEET 6 OF 36

LEGEND:

-  BEACH/DUNE FILL BORROW AREA
-  NOVEMBER 2008
-  USACE 2004 HYDROGRAPHIC SURVEY
-  DESIGN

SCALE:
H: 1" = 500'
V: 1" = 50'



NOTES:
1. BATHYMETRIC SURVEYS PERFORMED BY ALPINE OCEAN SEISMIC SURVEY, INC., 2008 & USACE, 2004

BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011



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

RIVERINE SAND MINING /
SCOFIELD ISLAND
RESTORATION

BORROW AREA MR-B-09
DESIGN SECTIONS

STATE PROJECT NUMBER: BA-40

DATE: NOVEMBER, 2010

DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

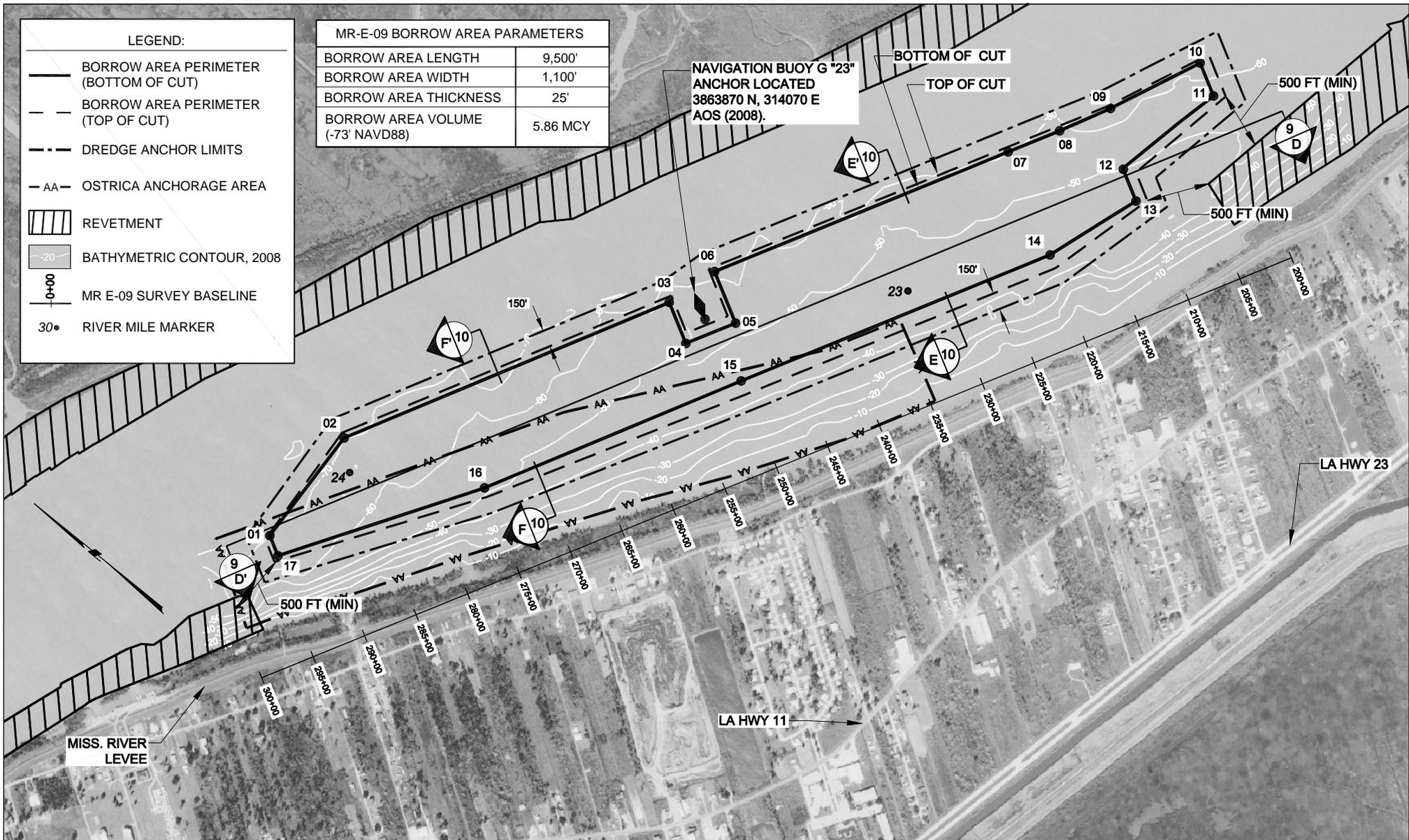
SHEET 7 OF 36

LEGEND:

-  BORROW AREA PERIMETER (BOTTOM OF CUT)
-  BORROW AREA PERIMETER (TOP OF CUT)
-  DREDGE ANCHOR LIMITS
-  OSTRICA ANCHORAGE AREA
-  REVETMENT
-  BATHYMETRIC CONTOUR, 2008
-  MR E-09 SURVEY BASELINE
-  RIVER MILE MARKER

MR-E-09 BORROW AREA PARAMETERS	
BORROW AREA LENGTH	9,500'
BORROW AREA WIDTH	1,100'
BORROW AREA THICKNESS	25'
BORROW AREA VOLUME (-73' NAVD88)	5.86 MCY

NAVIGATION BUOY G "23"
ANCHOR LOCATED
3863870 N, 314070 E
AOS (2008).



- NOTES:**
1. SEE SHEETS 9 & 10 FOR TYPICAL DESIGN CROSS SECTIONS, SEE SHEET 3 FOR PERIMETER POINTS OF INFLECTION.
 2. BATHYMETRIC SURVEYS PERFORMED BY ALPINE OCEAN SEISMIC SURVEY, INC., 2008.
 3. REQUEST PERMIT FOR BOTH MISSISSIPPI RIVER BORROW AREAS, MR-B-09 AND MR-E-09, TO PROMOTE COMPETITIVE CONSTRUCTION CONTRACT BIDS BASED ON AVAILABLE DREDGE EQUIPMENT. SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.
 4. HOPPER OR CUTTERHEAD DREDGE MAY BE UTILIZED TO EXCAVATE BORROW AREA MR-E-09.



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

STB GROUP, LLC
QUALITY BY DESIGN

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

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

STATE PROJECT NUMBER: BA-40

FEDERAL PROJECT NUMBER: BA-40

BORROW AREA MR-E-09 PLAN VIEW

DATE: NOVEMBER, 2010

SHEET 8 OF 36

DRAWN BY: DARTEZ \ ZWERNEMAN

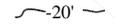
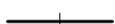
DESIGNED BY: MICHAEL T. POFF, P.E.

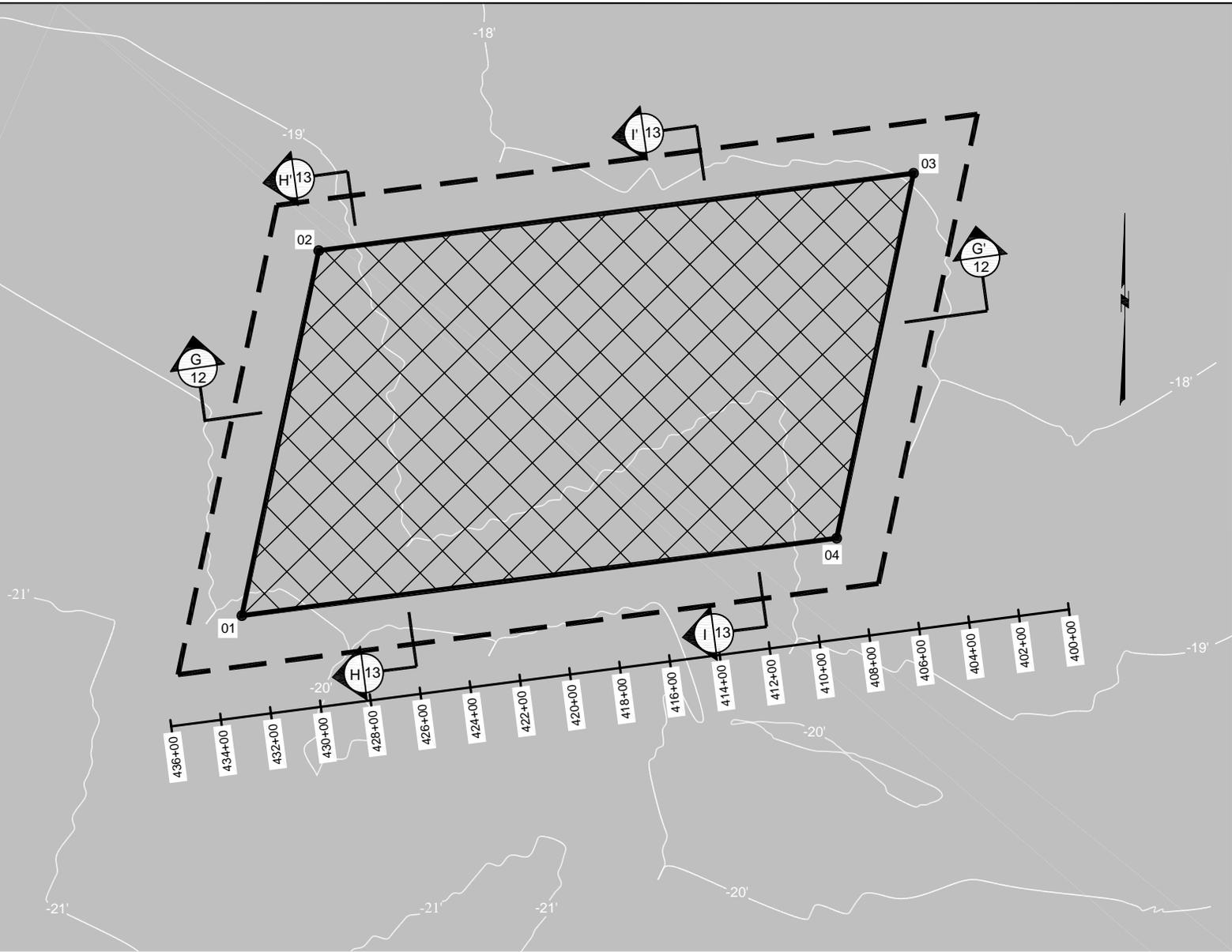
APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 8 OF 36

OFFSHORE BORROW AREA PARAMETERS	
BORROW AREA LENGTH	2,800'
BORROW AREA WIDTH	1,900'
BORROW AREA THICKNESS	20' TO 22'
BORROW AREA VOLUME (-40' NAVD88)	3.30 MCY

LEGEND:	
	BORROW AREA
	BATHYMETRIC CONTOURS, FT NAVD88 (CP&E, 2003)
	BORROW AREA PERIMETER (BOTTOM OF CUT)
	BORROW AREA PERIMETER (TOP OF CUT)
	OFFSHORE BORROW AREA SURVEY BASELINE



- NOTES:**
- SEE SHEETS 12 & 13 FOR SECTIONS. SEE SHEET 3 FOR PERIMETER POINTS OF INFLECTION.
 - BATHYMETRY DATA FROM BARATARIA/PLAQUEMINES BARRIER SHORELINE RESTORATION, (CP&E, 2003).



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011



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

RIVERINE SAND MINING /
SCOFIELD ISLAND
RESTORATION

STATE PROJECT NUMBER: BA-40

FEDERAL PROJECT NUMBER: BA-40

OFFSHORE
BORROW AREA
PLAN VIEW

DATE: NOVEMBER, 2010

SHEET 11 OF 36

DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

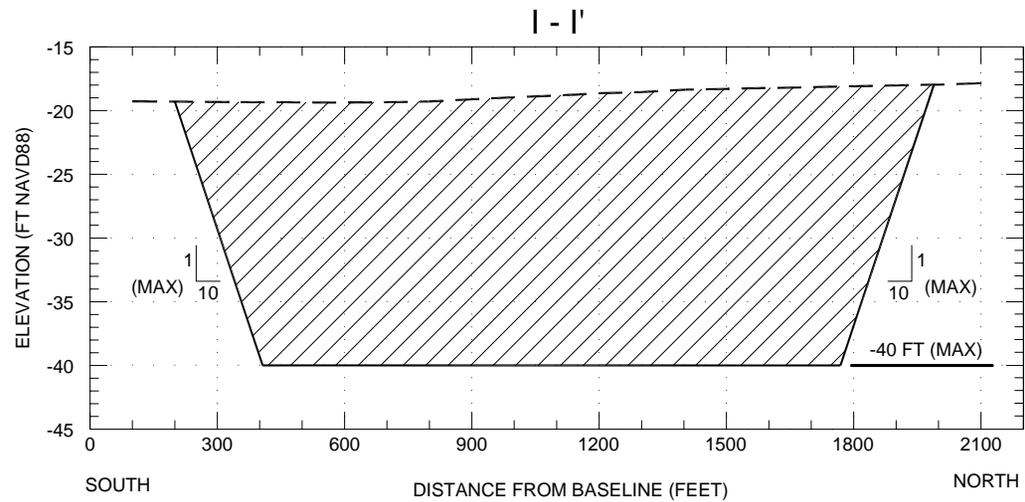
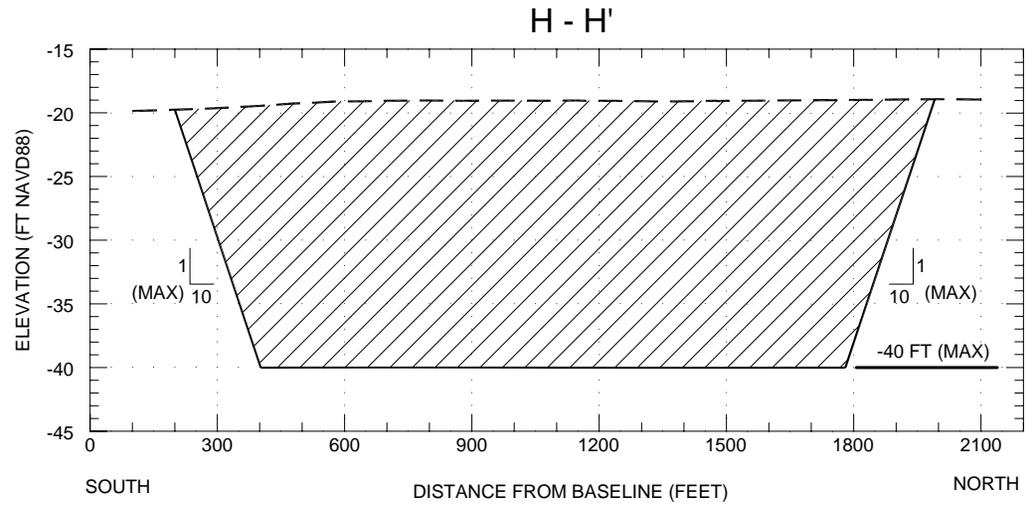
FEDERAL PROJECT NUMBER: BA-40

SHEET 11 OF 36

LEGEND:

-  MARSH FILL BORROW AREA
-  JULY 2003
-  DESIGN

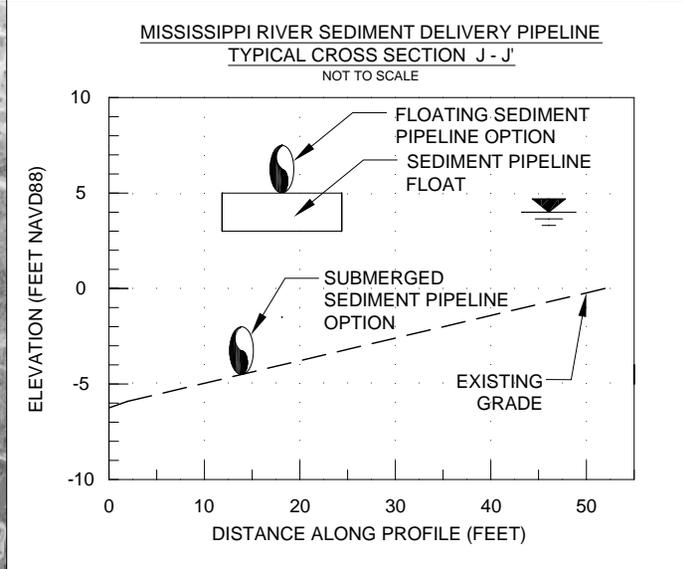
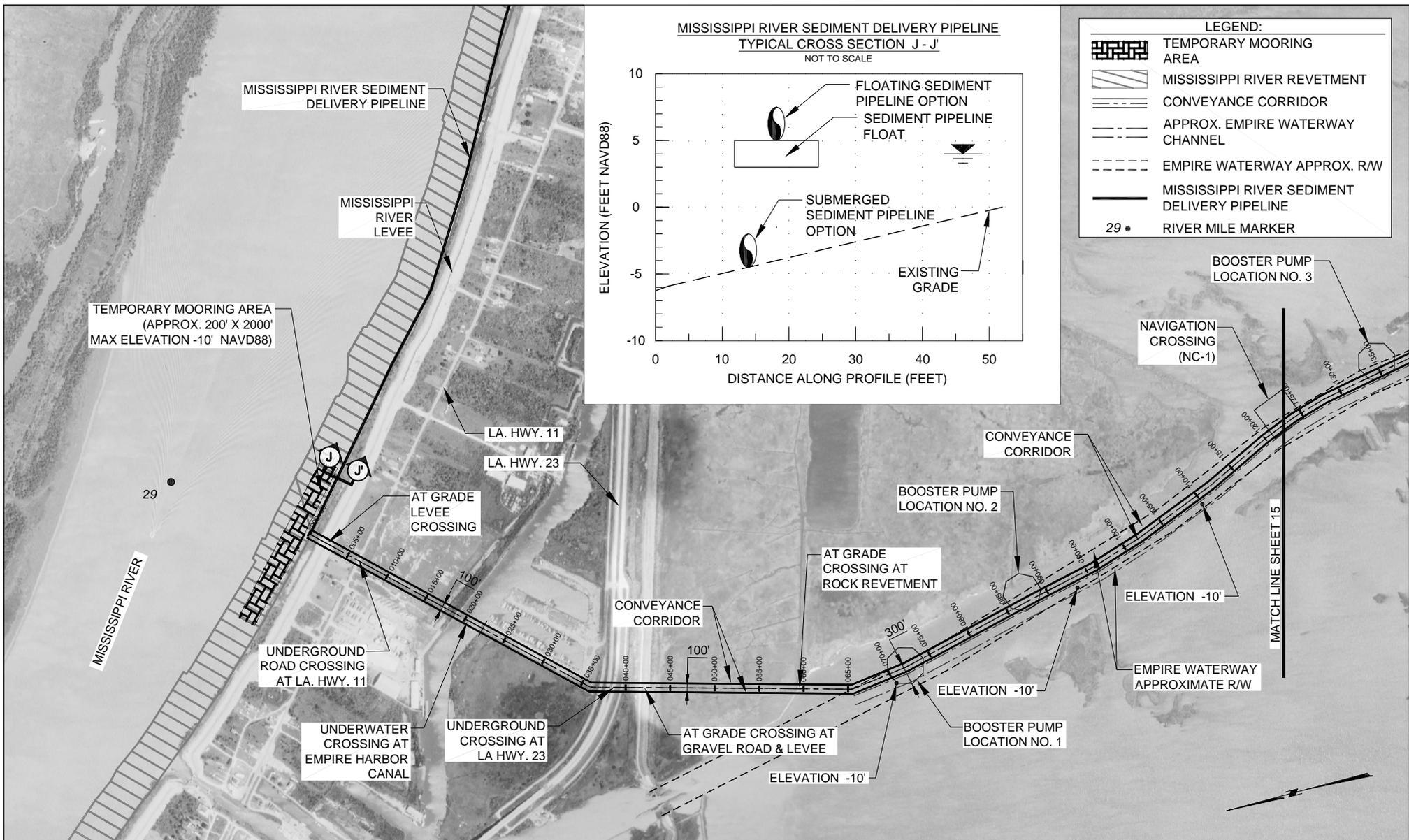
SCALE:
H: 1" = 450'
V: 1" = 15'



NOTES:

1. BATHYMETRY DATA FROM BARATARIA/PLAQUEMINES BARRIER SHORELINE RESTORATION, (CP&E, 2003).
2. MHW = 1.60 FT NAVD88, MLW = 0.55 FT NAVD88

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC  SJB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION <small>450 LAUREL STREET</small> <small>BATON ROUGE, LOUISIANA 70801</small>	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	OFFSHORE BORROW AREA DESIGN SECTIONS
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011			<small>STATE PROJECT NUMBER: BA-40</small>	<small>DATE: NOVEMBER, 2010</small>
					<small>FEDERAL PROJECT NUMBER: BA-40</small>	<small>SHEET 13 OF 36</small>
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.		



LEGEND:

	TEMPORARY MOORING AREA
	MISSISSIPPI RIVER REVETMENT
	CONVEYANCE CORRIDOR
	APPROX. EMPIRE WATERWAY CHANNEL
	EMPIRE WATERWAY APPROX. R/W
	MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE
	29 • RIVER MILE MARKER

- NOTES:**
- SEE SHEET 24 - 34 FOR LEVEE CROSSING, HIGHWAY CROSSING, HARBOR CANAL CROSSING, MARSH AND ROCK REVETMENT CROSSING, NAVIGATION CROSSING, AND BOOSTER SITE DETAILS.
 - CONVEYANCE CORRIDOR CONSTRUCTION EQUIPMENT RIGHT OF WAY IS TO THE 100 FOOT WIDE EXTENTS OF THE CONVEYANCE CORRIDOR.
 - SURVEYS CONDUCTED BY SJB GROUP, LLC & C.H. FENSTERMAKER & ASSOC., INC, JULY 2008.
 - SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

SJB GROUP, LLC
QUALITY BY DESIGN

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

RIVERINE SAND MINING /
SCOFIELD ISLAND
RESTORATION

STATE PROJECT NUMBER: BA-40

CONVEYANCE CORRIDOR
LAYOUT

DATE: NOVEMBER, 2010

DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

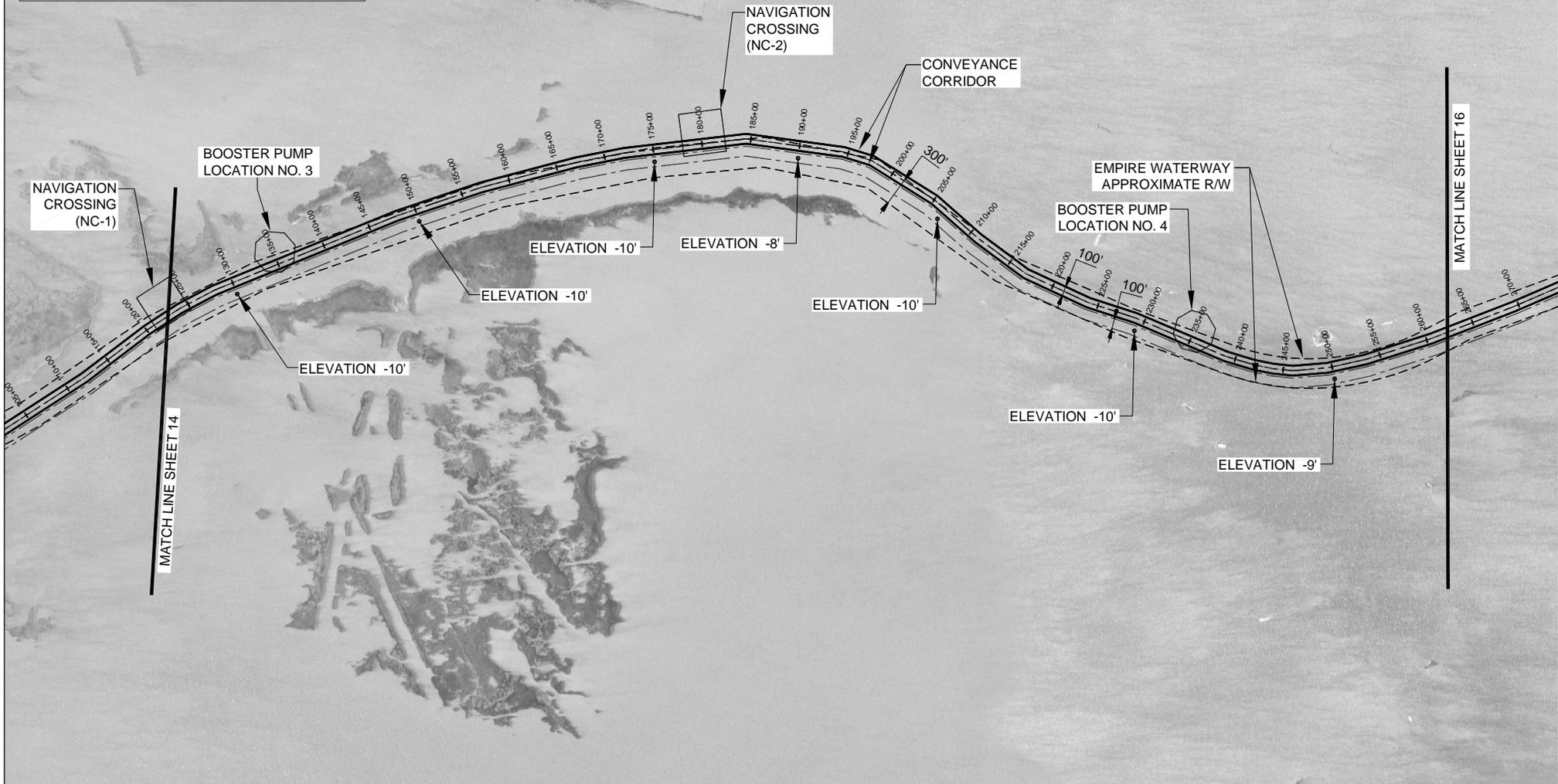
APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 14 OF 36

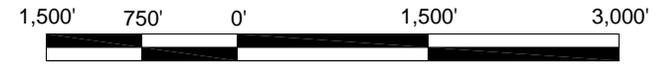
LEGEND:

-  CONVEYANCE CORRIDOR
-  APPROX. EMPIRE WATERWAY CHANNEL
-  EMPIRE WATERWAY APPROX. R/W



NOTES:

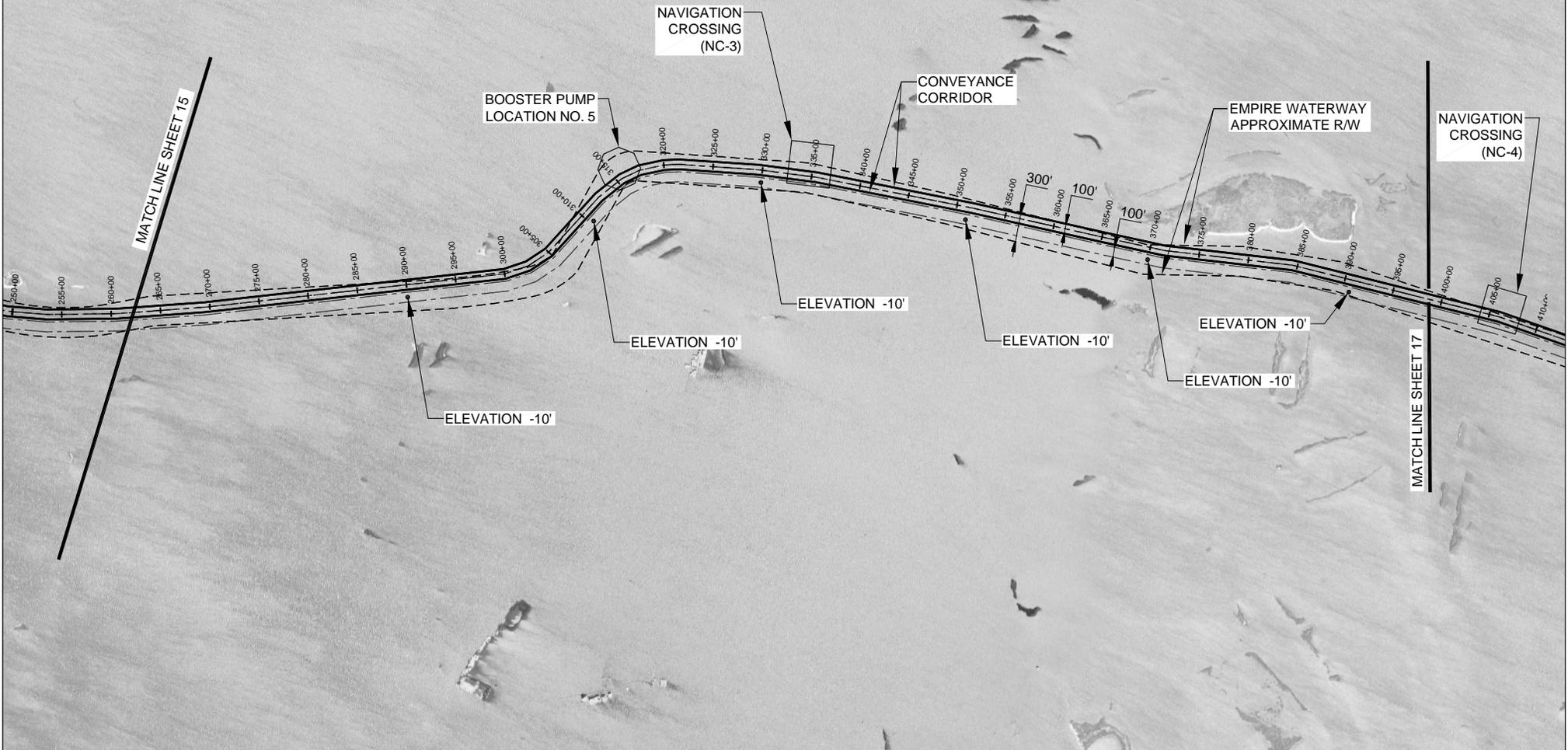
1. SEE SHEET 33 & 34 FOR NAVIGATION CROSSING AND BOOSTER SITE DETAILS.
2. SURVEY CONDUCTED BY C.H. FENSTERMAKER & ASSOC., INC, JULY 2008.
3. SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.



<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">BY</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 30%;">DATE</th> </tr> <tr> <td>MTP</td> <td>CMD/USACE/STAKEHOLDER COMMENT RESPONSE</td> <td>02/01 2011</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	BY	DESCRIPTION	DATE	MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				 	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	CONVEYANCE CORRIDOR LAYOUT
BY	DESCRIPTION	DATE											
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011											
DRAWN BY: DARTEZ \ ZWERNEMAN		DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-40 DATE: NOVEMBER, 2010	FEDERAL PROJECT NUMBER: BA-40 SHEET 15 OF 36								

LEGEND:

-  CONVEYANCE CORRIDOR
-  APPROX. EMPIRE WATERWAY CHANNEL
-  EMPIRE WATERWAY APPROX. R/W



NOTES:

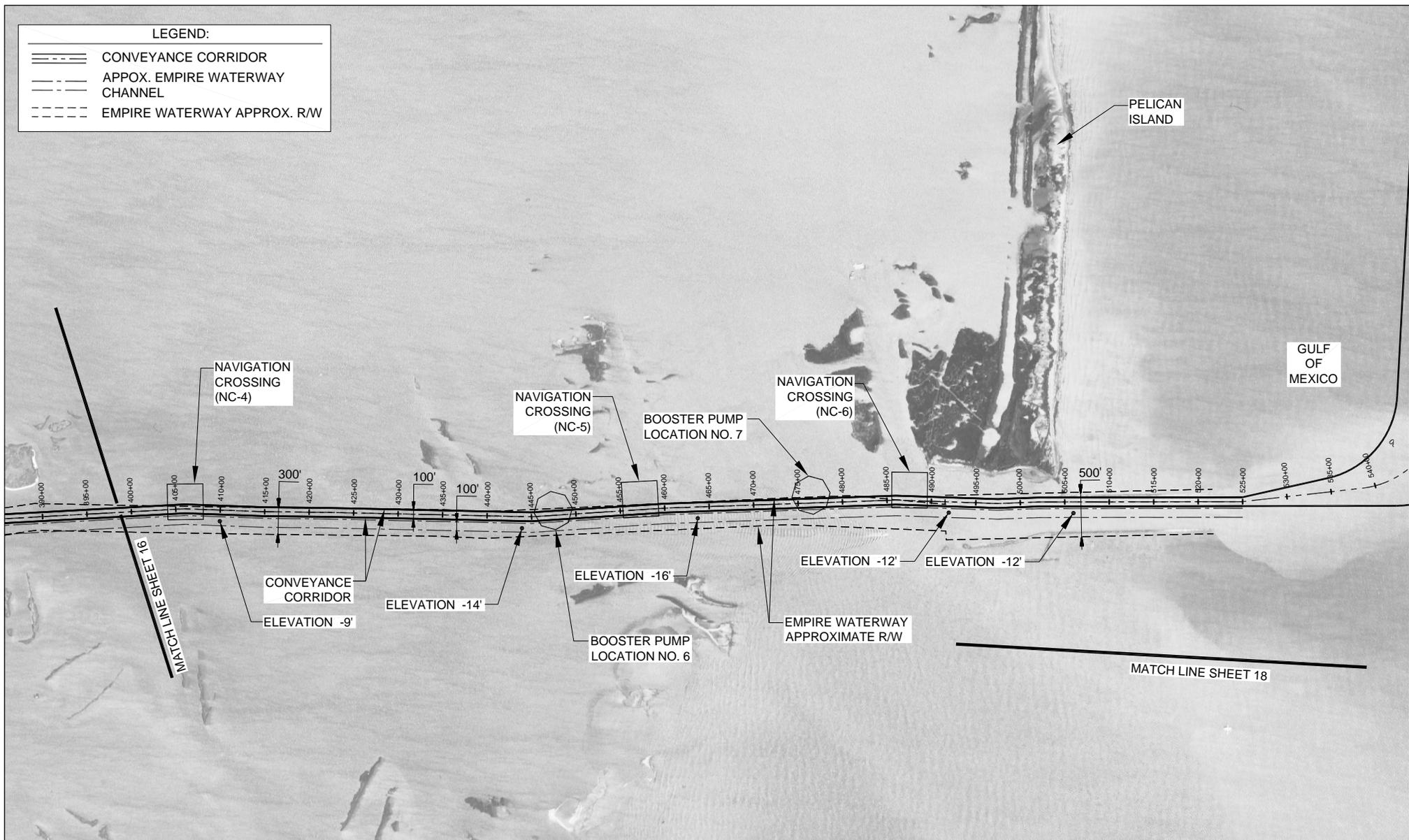
1. SEE SHEET 33 & 34 FOR NAVIGATION CROSSING AND BOOSTER SITE DETAILS.
2. SURVEY CONDUCTED BY C.H. FENSTERMAKER & ASSOC., INC, JULY 2008.
3. SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.



BY	DESCRIPTION	DATE		OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	CONVEYANCE CORRIDOR LAYOUT	
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
					DRAWN BY: DARTEZ \ ZWERNEMAN	DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.

LEGEND:

-  CONVEYANCE CORRIDOR
-  APPROX. EMPIRE WATERWAY CHANNEL
-  EMPIRE WATERWAY APPROX. RW

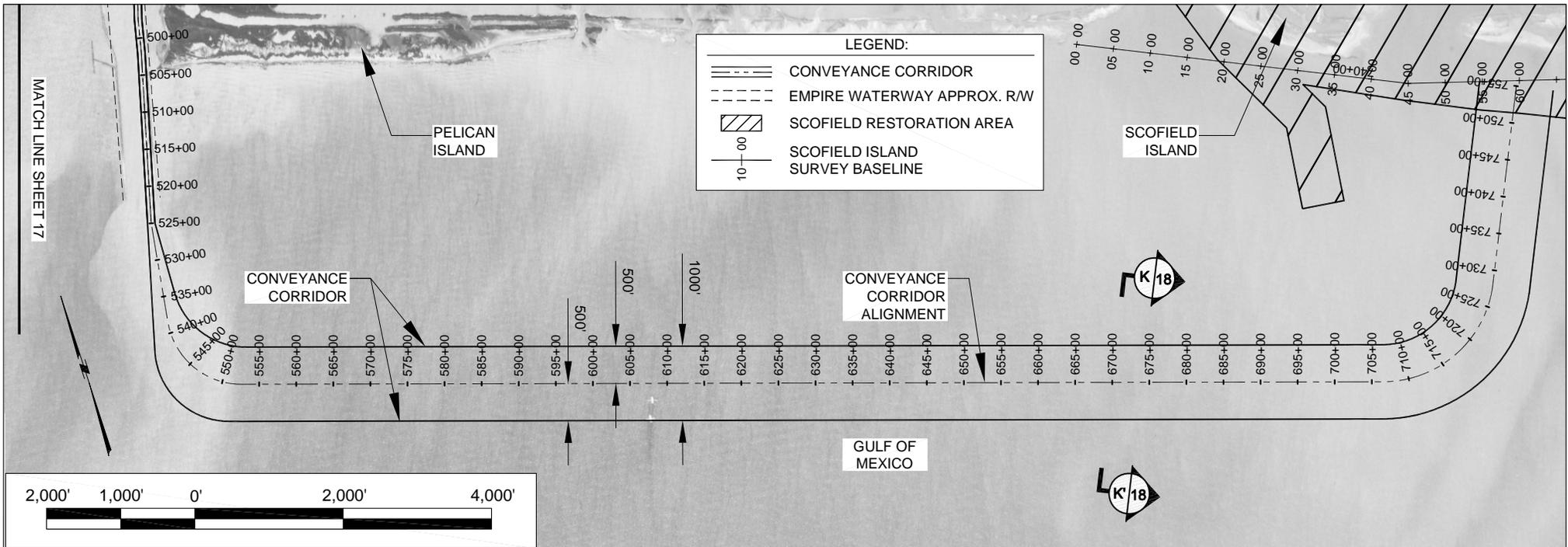


NOTES:

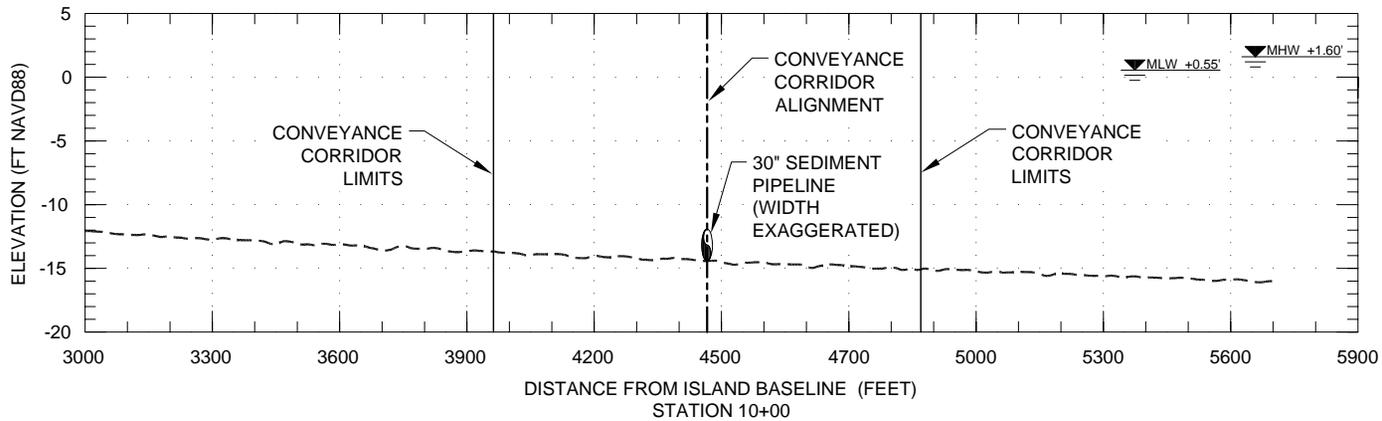
1. SEE SHEET 33 & 34 FOR NAVIGATION CROSSING AND BOOSTER SITE DETAILS.
2. SURVEY CONDUCTED BY C.H. FENSTERMAKER & ASSOC., INC, JULY 2008.
3. SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.



BY	DESCRIPTION	DATE		OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	CONVEYANCE CORRIDOR LAYOUT	
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
						FEDERAL PROJECT NUMBER: BA-40	SHEET 17 OF 36
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.			



K - K'



SCALE:
H: 1" = 450'
V: 1" = 15'

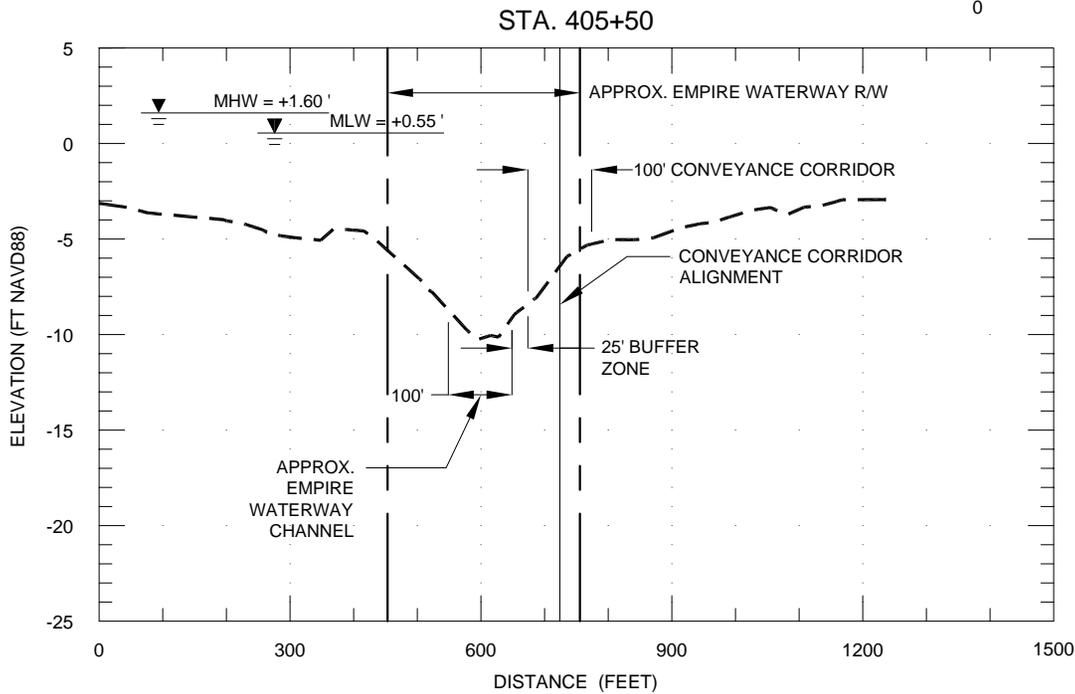
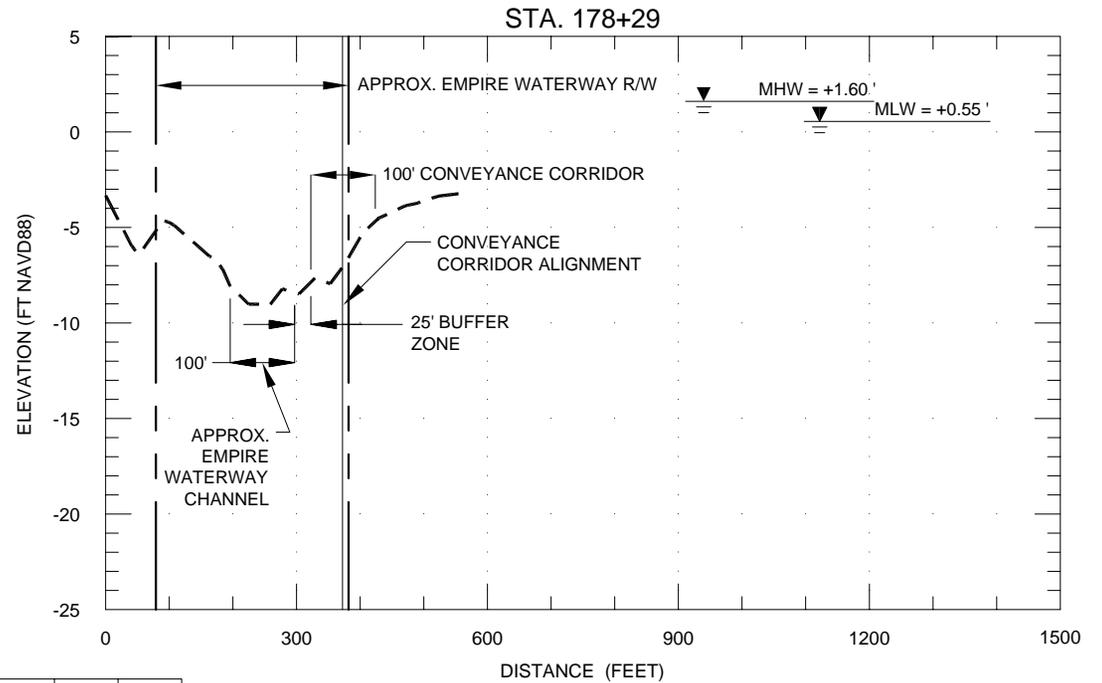
NOTES:

1. SURVEY PROVIDED BY SHAW, JULY 2010 (FILENAME: W-10_DATA TO DATE_7-29-10_COMPLETE_CORRECTED.CSV).
2. NO EXCAVATIONS OR FILLS ARE REQUIRED FOR THE CONVEYANCE CORRIDOR FROM THE EMPIRE JETTIES TO SCOFIELD ISLAND.
3. A MINIMUM 12 FOOT OF WATER ABOVE SEDIMENT PIPELINE IN THE GULF OF MEXICO SECTION OF THE CONVEYANCE CORRIDOR UNTIL APPROACH OF FILL TEMPLATE.
4. SEDIMENT PIPELINE SHALL BE LIGHTED AND MARKED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.

BY	DESCRIPTION	DATE	 QUALITY BY DESIGN	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	CONVEYANCE CORRIDOR LAYOUT (GULF OF MEXICO)
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
					FEDERAL PROJECT NUMBER: BA-40	SHEET 18 OF 36

NOTES:

1. APPROXIMATE EMPIRE WATERWAY RIGHT OF WAY (R/W) DIGITIZED FROM WATERWAY FROM EMPIRE, LA TO THE GULF OF MEXICO, R/W AND SPOIL DISPOSAL AREAS MAPS, (USACE, 1948).
2. SURVEY CONDUCTED BY C.H. FENSTERMAKER & ASSOC., INC, JULY 2008.

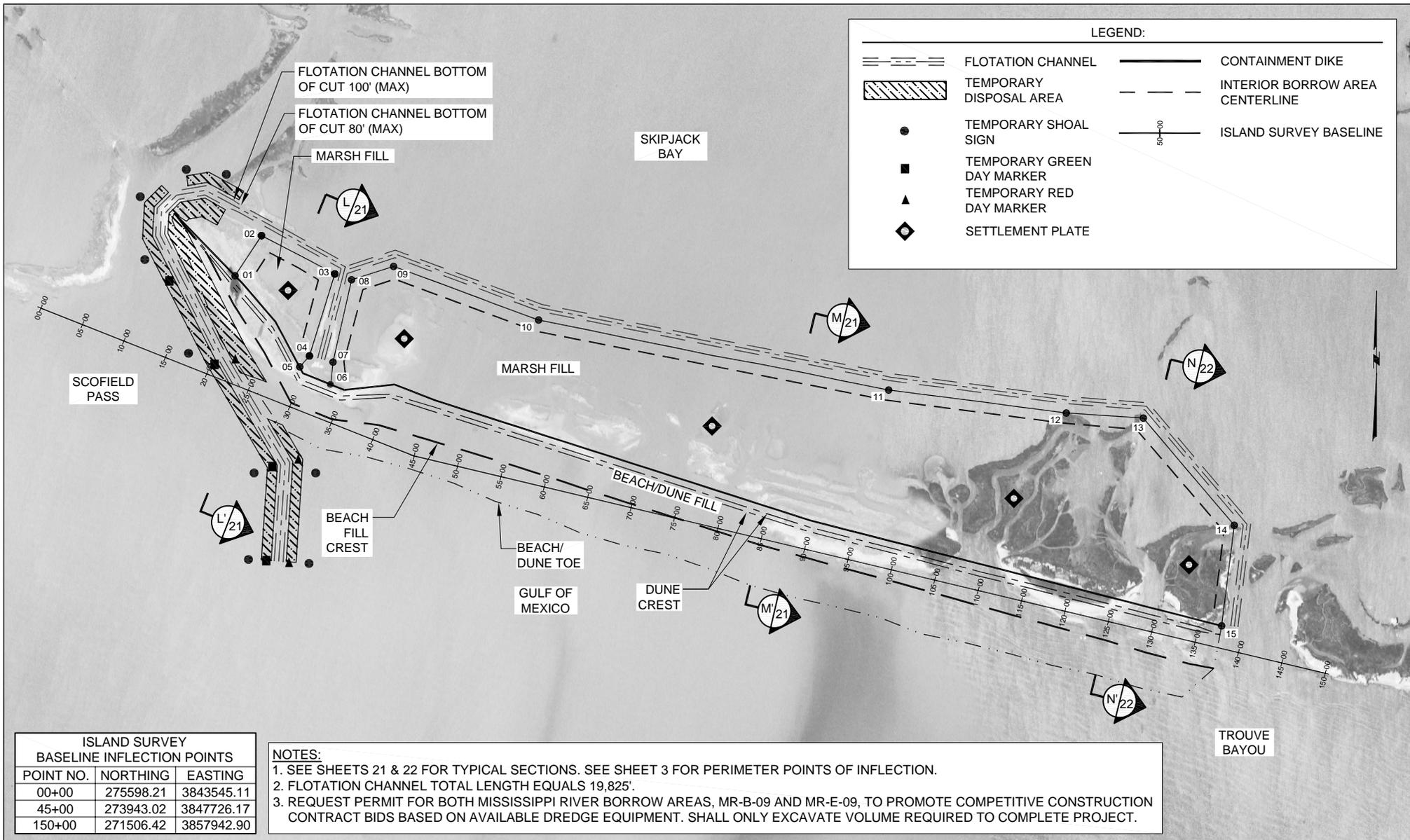


LEGEND:

----- JULY, 2008

SCALE
H: 1" = 300'
V: 1" = 10'

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC  SJB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	CONVEYANCE CORRIDOR TYPICAL CROSS SECTIONS		
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011					STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
							FEDERAL PROJECT NUMBER: BA-40	SHEET 19 OF 36
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.				



LEGEND:

	FLOTATION CHANNEL		CONTAINMENT DIKE
	TEMPORARY DISPOSAL AREA		INTERIOR BORROW AREA CENTERLINE
	TEMPORARY SHOAL SIGN		ISLAND SURVEY BASELINE
	TEMPORARY GREEN DAY MARKER		
	TEMPORARY RED DAY MARKER		
	SETTLEMENT PLATE		

ISLAND SURVEY BASELINE INFLECTION POINTS

POINT NO.	NORTHING	EASTING
00+00	275598.21	3843545.11
45+00	273943.02	3847726.17
150+00	271506.42	3857942.90

NOTES:

1. SEE SHEETS 21 & 22 FOR TYPICAL SECTIONS. SEE SHEET 3 FOR PERIMETER POINTS OF INFLECTION.
2. FLOTATION CHANNEL TOTAL LENGTH EQUALS 19,825'.
3. REQUEST PERMIT FOR BOTH MISSISSIPPI RIVER BORROW AREAS, MR-B-09 AND MR-E-09, TO PROMOTE COMPETITIVE CONSTRUCTION CONTRACT BIDS BASED ON AVAILABLE DREDGE EQUIPMENT. SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.

SCOFIELD ISLAND VOLUME REQUIREMENTS	DUNE	MARSH
REQUIRED FILL VOLUME	1.63 MCY	1.76 MCY
CUT-TO-FILL RATIO	1.3	1.6
REQUIRED EXCAVATION VOLUME	2.12 MCY	2.82 MCY



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

DRAWN BY: DARTEZ

COASTAL ENGINEERING CONSULTANTS, INC

STB GROUP, LLC
QUALITY BY DESIGN

DESIGNED BY: MICHAEL T. POFF, P.E.

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

APPROVED BY: MAURY CHATELLIER, P.E.

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

STATE PROJECT NUMBER: BA-40

FEDERAL PROJECT NUMBER: BA-40

ISLAND RESTORATION PLAN VIEW

DATE: NOVEMBER, 2010

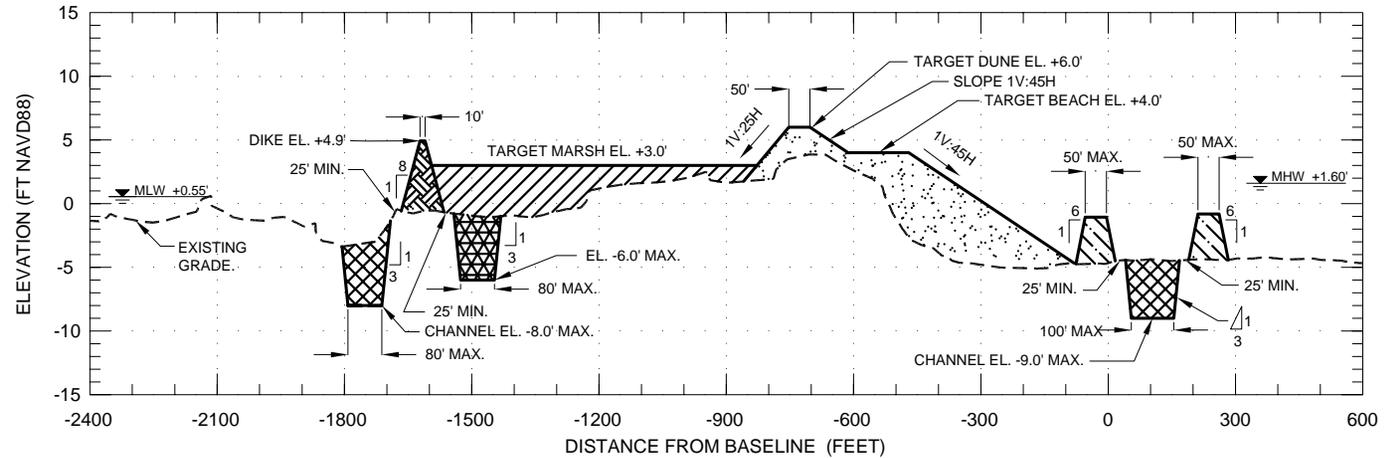
SHEET 20 OF 36

LEGEND:

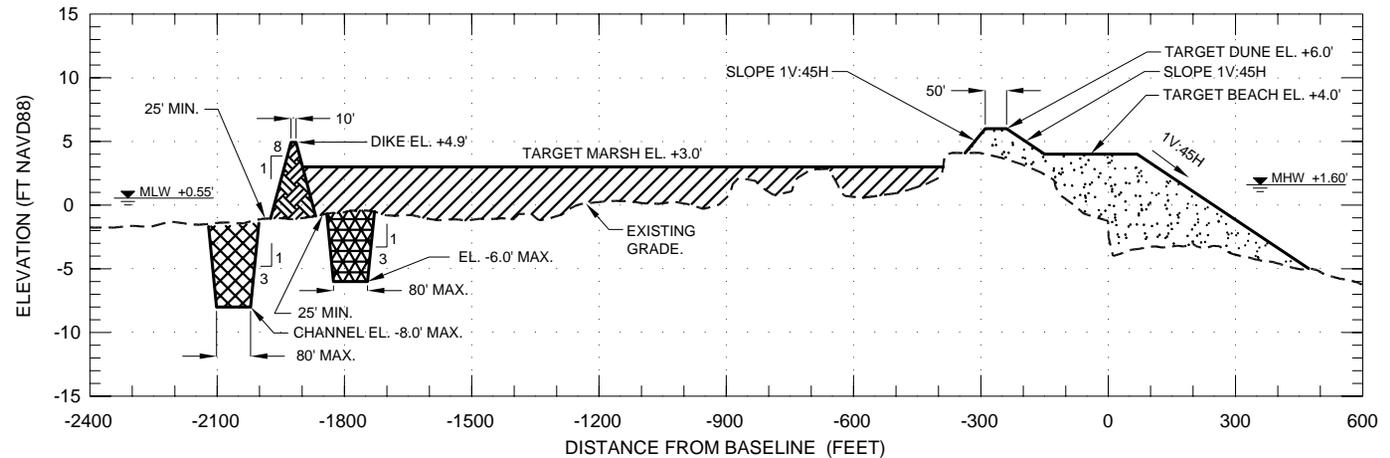
-  BEACH / DUNE FILL
-  MARSH FILL
-  CONTAINMENT DIKE
-  CONTAINMENT DIKE INTERIOR BORROW AREA
-  FLOATATION CHANNEL / CONTAINMENT DIKE BORROW AREA
-  TEMPORARY DISPOSAL AREA
-  2010 SURVEY
-  DESIGN

SCALE:
H: 1" = 450'
V: 1" = 15'

L - L'



M - M'



NOTES:

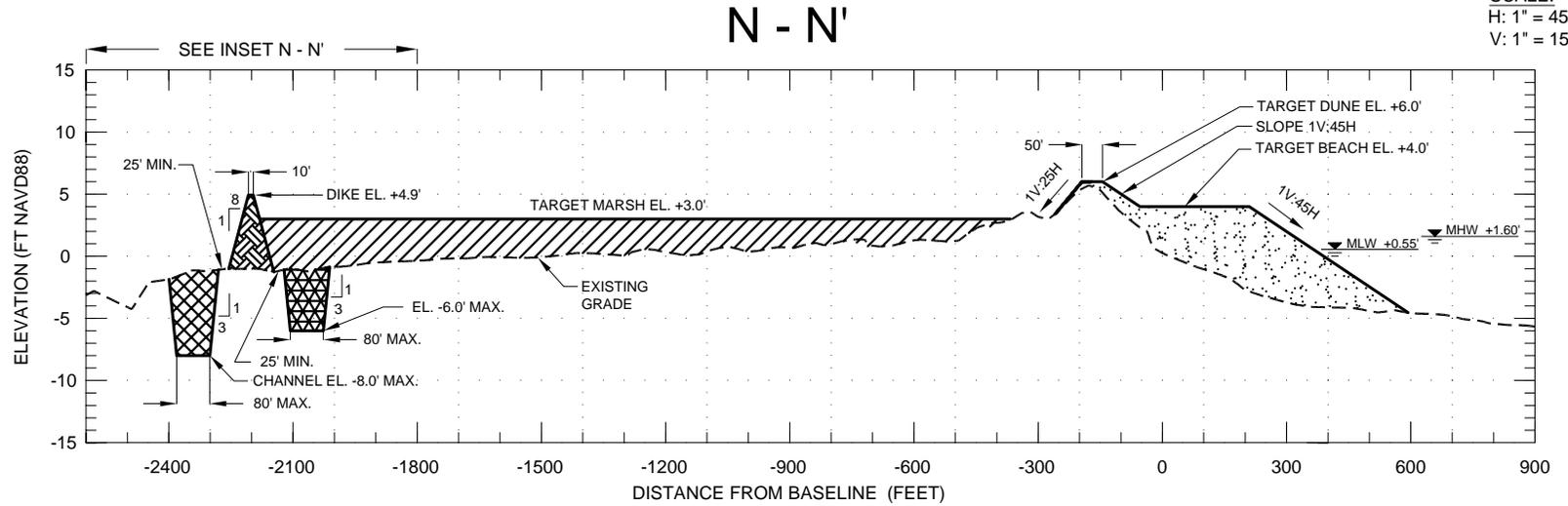
1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. BEACH, DUNE AND MARSH FILL TOLERANCE = ±0.5 FEET.
3. SEE SHEET 22 & 23 FOR MAXIMUM FOOTPRINTS OF FLOATATION CHANNEL, CONTAINMENT DIKES AND INTERIOR BORROW AREA.
4. SURVEY PROVIDED BY OCP, 2010 (W10 AS-BUILT).

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC  STB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	ISLAND RESTORATION DESIGN SECTIONS
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011			STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
DRAWN BY: DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-40	SHEET 21 OF 36

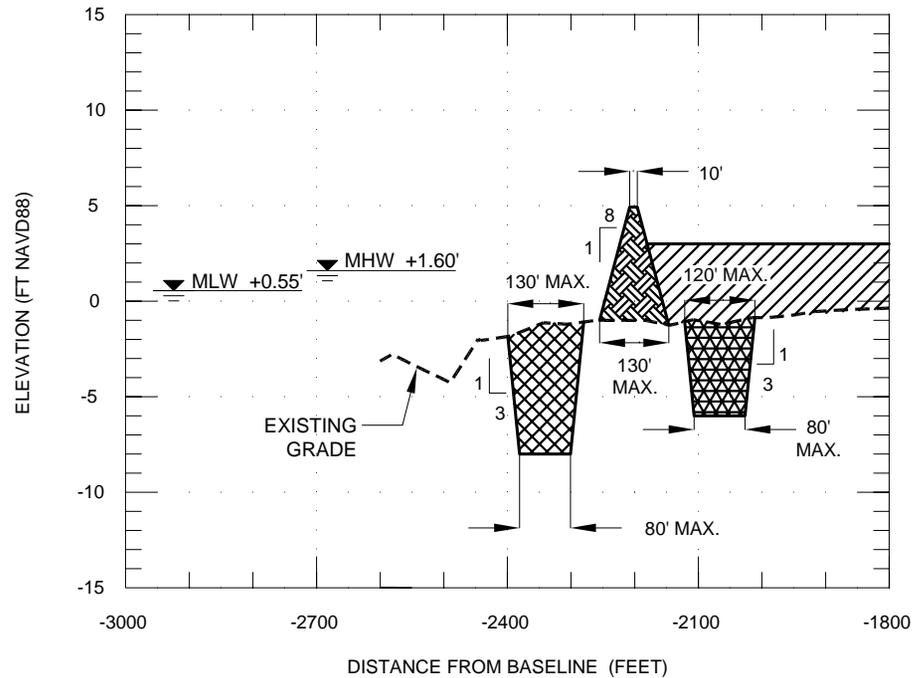
LEGEND:

-  BEACH / DUNE FILL
-  MARSH FILL
-  CONTAINMENT DIKE
-  CONTAINMENT DIKE INTERIOR BORROW AREA
-  FLOATATION CHANNEL / CONTAINMENT DIKE BORROW AREA
-  TEMPORARY DISPOSAL AREA
-  2010 SURVEY
-  DESIGN

SCALE:
H: 1" = 450'
V: 1" = 15'



INSET N - N'



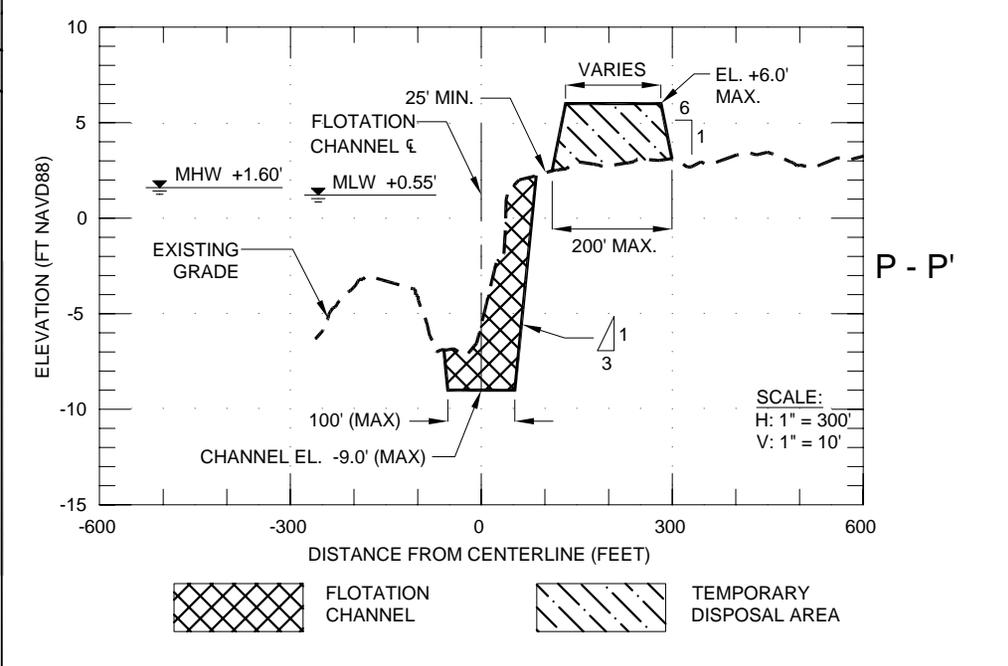
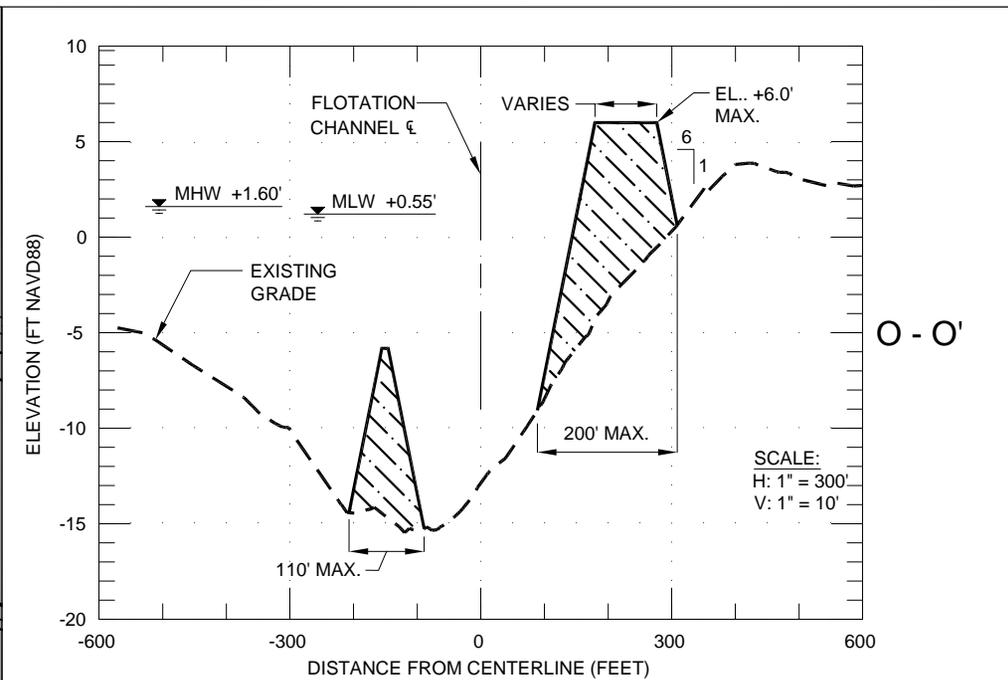
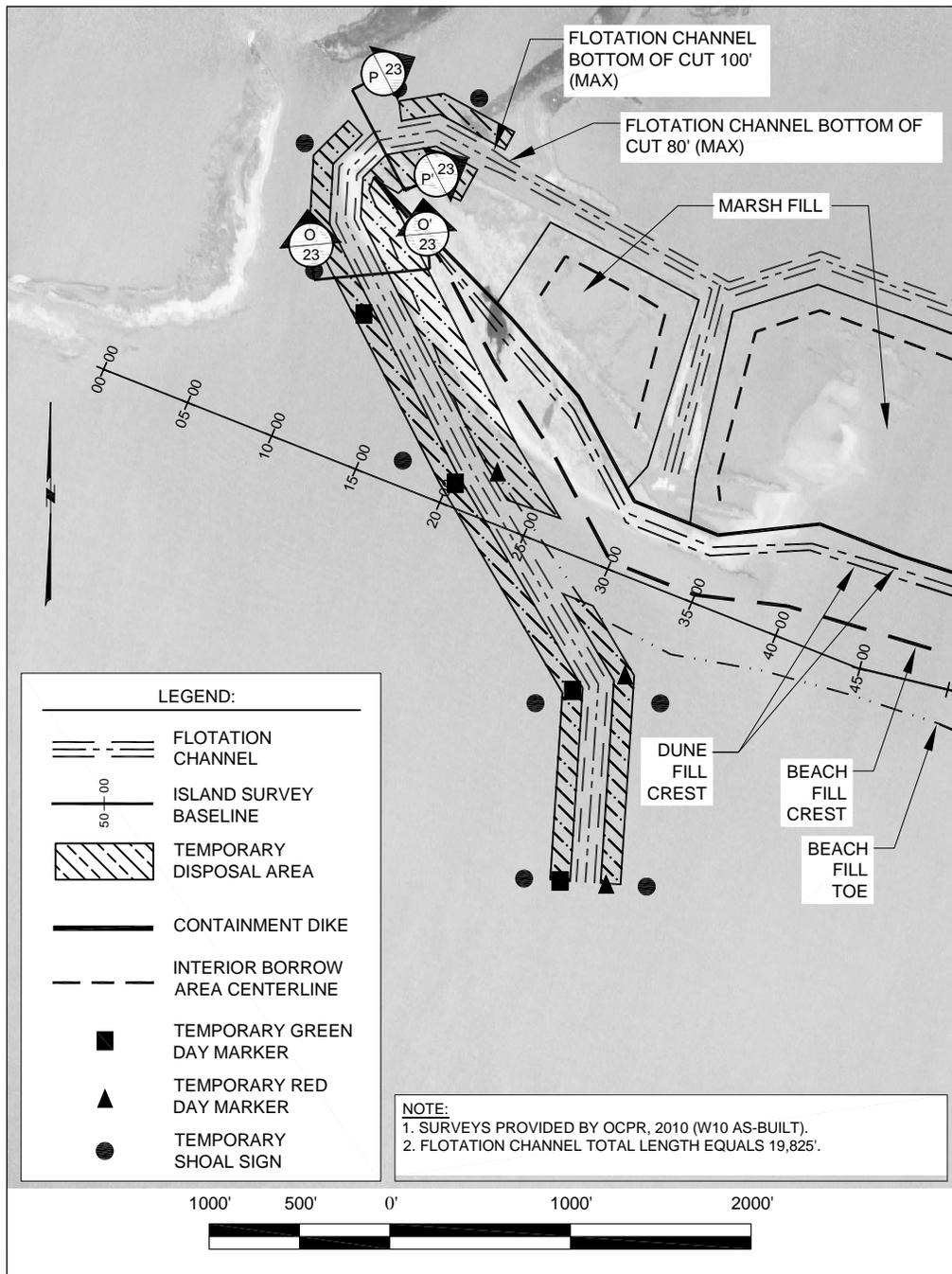
SCALE:
H: 1" = 300'
V: 1" = 10'

MAXIMUM FOOTPRINT OF FLOATATION CHANNEL, CONTAINMENT DIKE, INTERIOR BORROW AREA

NOTES:

1. SECTIONS ARE VIEWED AS LOOKING EAST.
2. BEACH, DUNE AND MARSH FILL TOLERANCE = ±0.5 FEET.
3. SURVEY PROVIDED BY OCP, 2010 (W10 AS-BUILT).

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC  STB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	ISLAND RESTORATION DESIGN SECTION
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				
DRAWN BY: DARTEZ			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
					FEDERAL PROJECT NUMBER: BA-40	SHEET 22 OF 36



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

STB GROUP, LLC
QUALITY BY DESIGN

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

DESIGNED BY: MICHAEL T. POFF, P.E.
APPROVED BY: MAURY CHATELLIER, P.E.

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

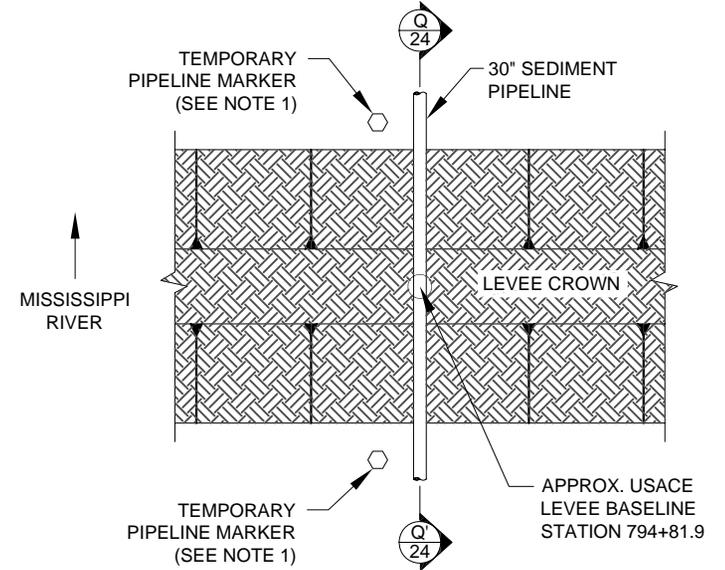
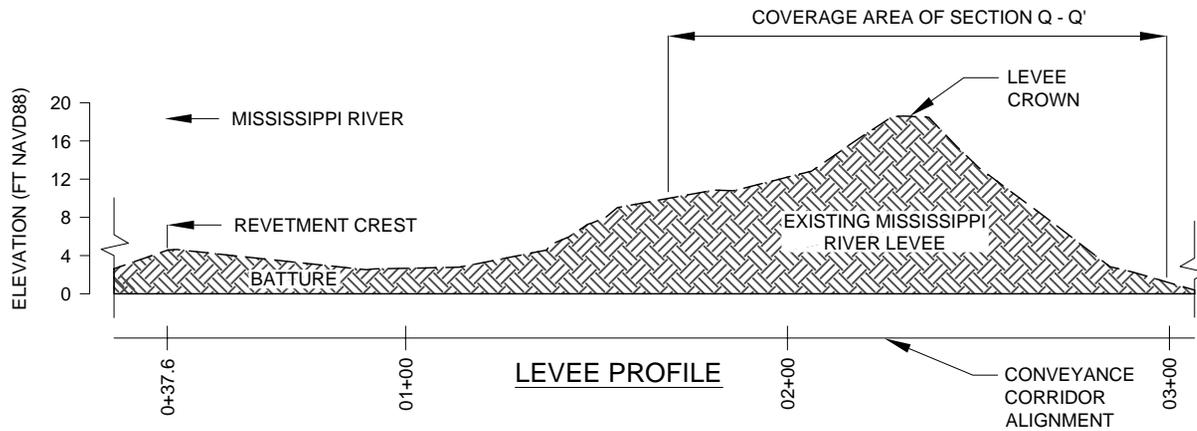
STATE PROJECT NUMBER: BA-40
FEDERAL PROJECT NUMBER: BA-40

FLOTATION CHANNEL GULF APPROACH PLAN VIEW AND DESIGN SECTIONS

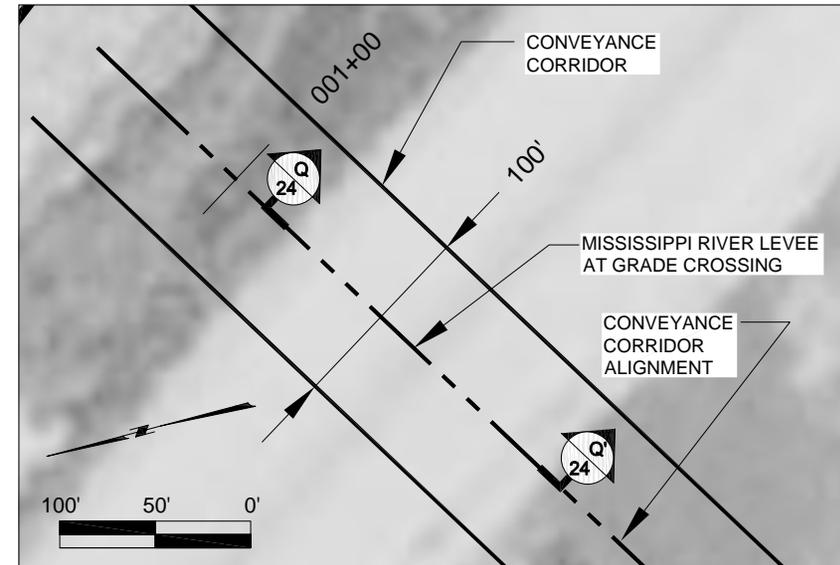
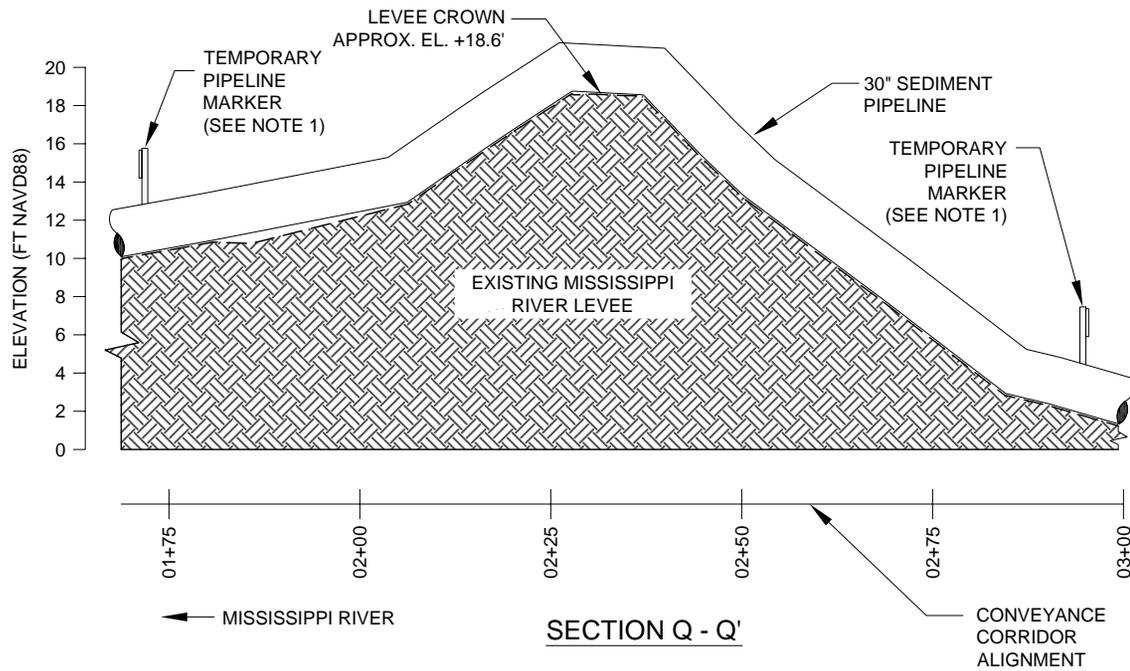
DATE: NOVEMBER, 2010
SHEET 23 OF 36

NOTES:

1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF EACH INFRASTRUCTURE CROSSING BY THE SEDIMENT PIPELINE.
2. SURVEYS CONDUCTED BY SJB GROUP, LLC., JULY 2008.
3. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.



**MISSISSIPPI RIVER LEVEE CROWN
PLAN VIEW
NOT TO SCALE**



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC.
SJB GROUP, LLC
 QUALITY BY DESIGN

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

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION
 STATE PROJECT NUMBER: BA-40

MISSISSIPPI RIVER LEVEE CROSSING DETAIL
 DATE: NOVEMBER, 2010

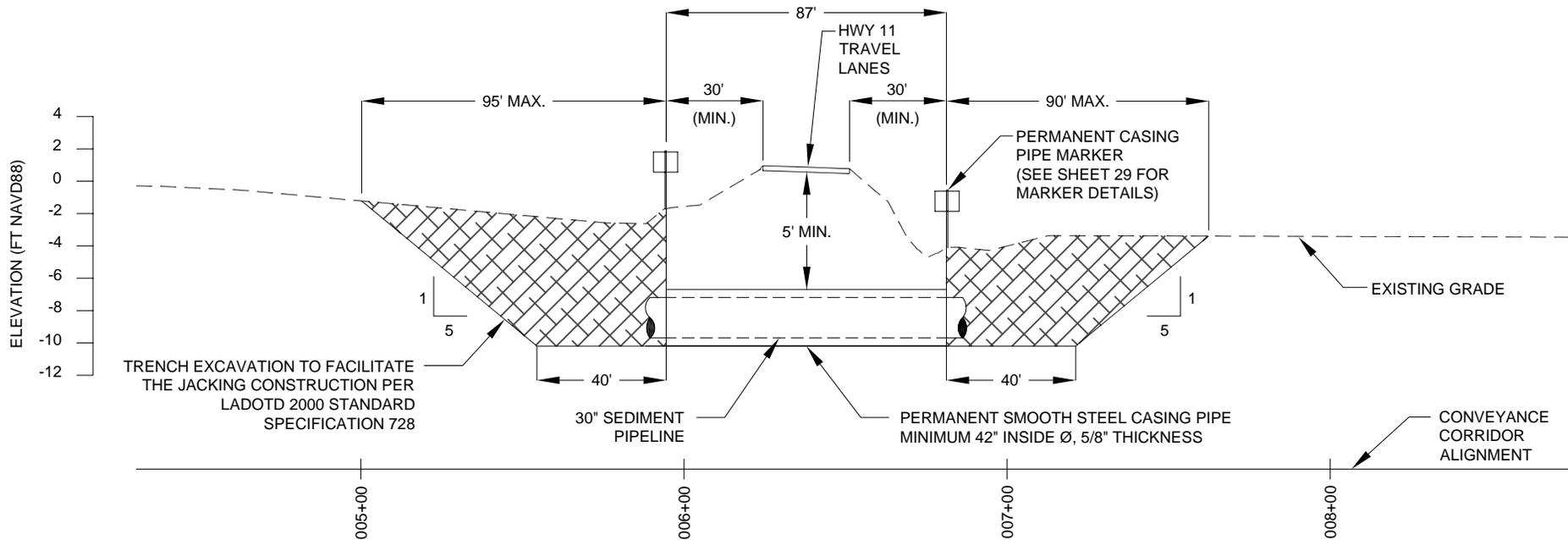
DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

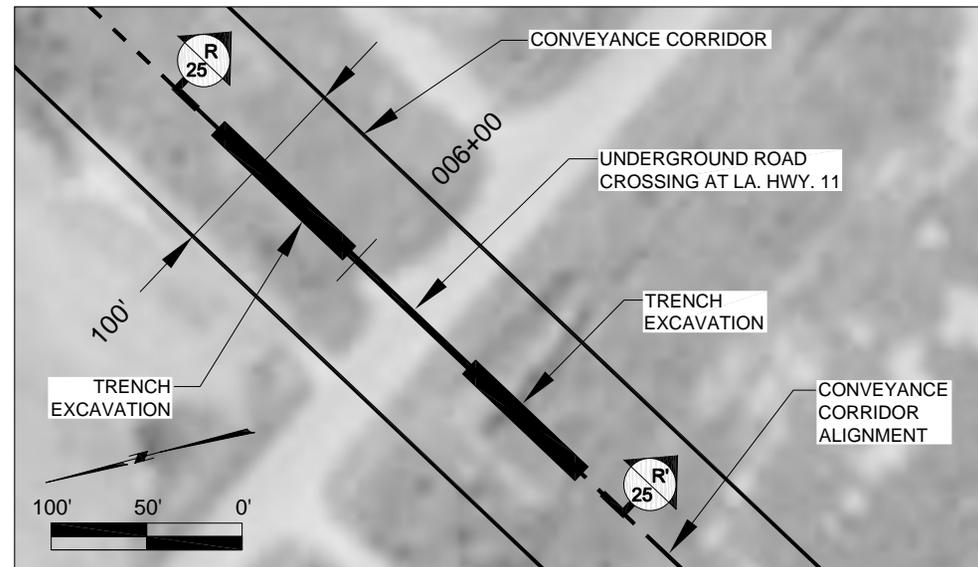
SHEET 24 OF 36



**HIGHWAY 11 CROSSING DETAIL
SECTION R - R'**

NOTES:

1. THE CONTRACTOR SHALL JACK THE MINIMUM 42" STEEL CASING PIPE UNDER THE TRAVEL LANES OF LOUISIANA HIGHWAY 11 IN ACCORDANCE WITH LADOTD 2000. STANDARD SPECIFICATION 728. CASING PIPE DIAMETER SHALL BE NO GREATER THAN 48".
2. THE CASING PIPE SHALL BE MADE OF SMOOTH STEEL, ASTM A 139 GRADE B, WITH MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL BE COATED WITH COAL TAR EPOXY-POLYAMIDE PAINT, IN ACCORDANCE WITH THE LADOTD 2000 STANDARD SPECIFICATION 1008.04.
3. THE 40' MINIMUM JACK PIT DISTANCE SHOWN IS BASED ON THE PROPOSED ALIGNMENT AND THE STANDARD HIGHWAY SPECIFICATIONS WHICH WILL BE INCLUDED IN THE PROJECT SPECIFICATIONS.
4. TRENCH EXCAVATION SIDE SLOPES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
5. SURVEYS CONDUCTED BY SJB GROUP LLC., JULY 2008.
6. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

 QUALITY BY DESIGN

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

RIVERINE SAND MINING /
 SCOFIELD ISLAND
 RESTORATION

STATE PROJECT NUMBER: BA-40

HIGHWAY 11
 CROSSING DETAIL

DATE: NOVEMBER, 2010

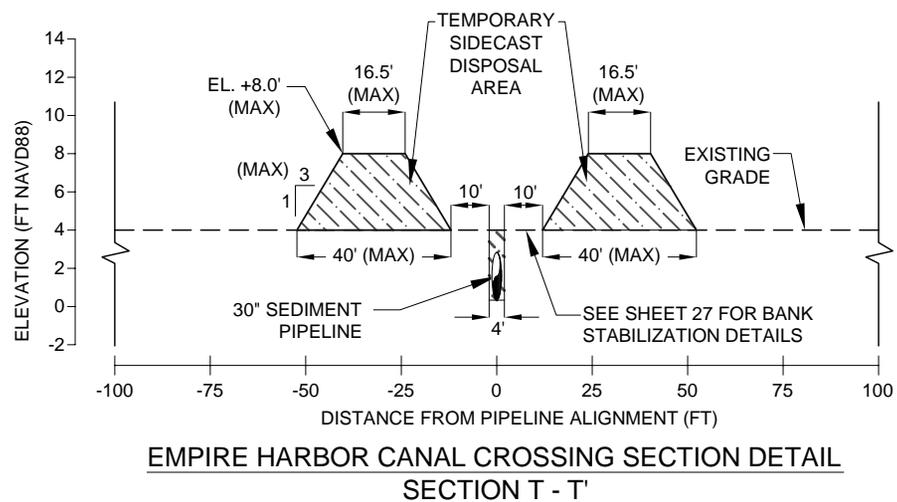
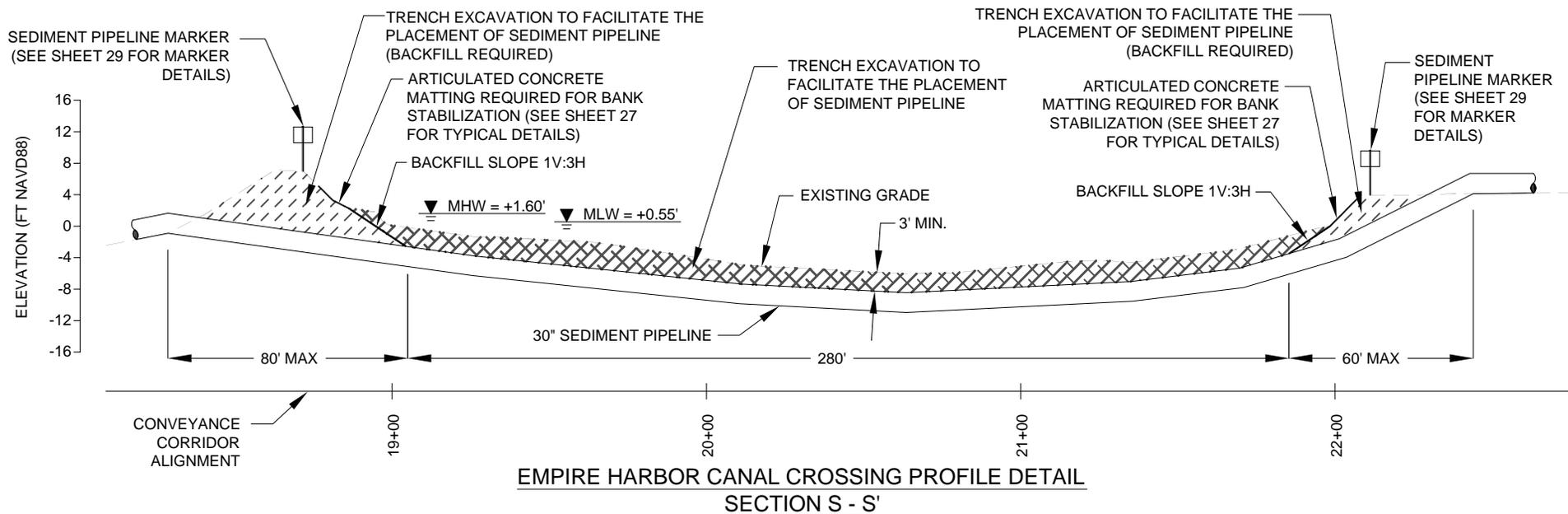
DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

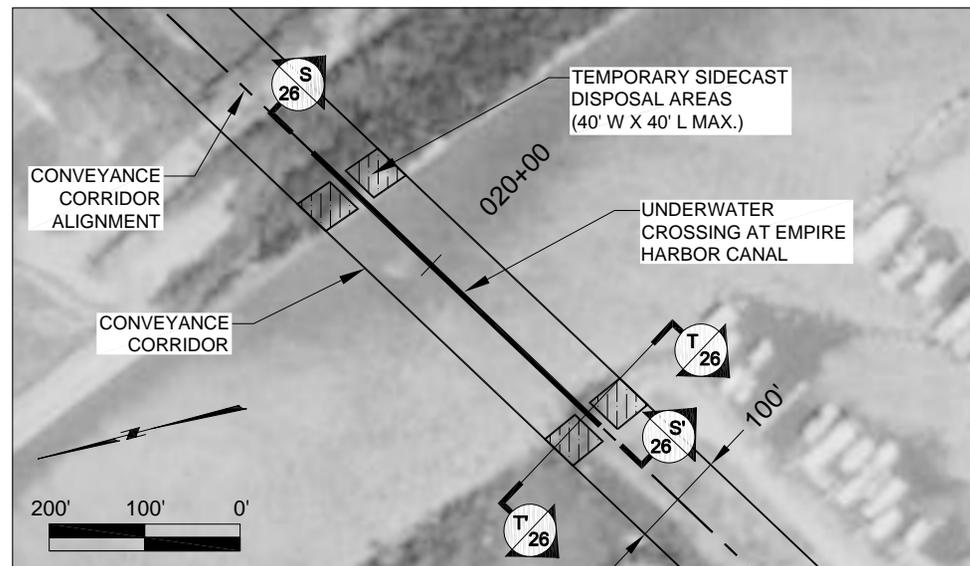
APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 25 OF 36



 CANAL BOTTOM TRENCH EXCAVATION (240 CUBIC YARDS)
 CANAL BANK TRENCH EXCAVATION (110 CUBIC YARDS)



- NOTES:**
1. BACKFILLING OF CANAL BANKS OF THE EMPIRE HARBOR CANAL IS REQUIRED FOLLOWING INSTALLATION AND REMOVAL OF SEDIMENT PIPELINE.
 2. SURVEYS CONDUCTED BY SJB GROUP LLC., JULY 2008.
 3. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.

BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

 **COASTAL ENGINEERING CONSULTANTS, INC.**
 **SJB GROUP, LLC**
 QUALITY BY DESIGN

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

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION
 EMPIRE HARBOR CANAL CROSSING DETAIL

STATE PROJECT NUMBER: BA-40 DATE: NOVEMBER, 2010

DRAWN BY: DARTEZ \ ZWERNEMAN

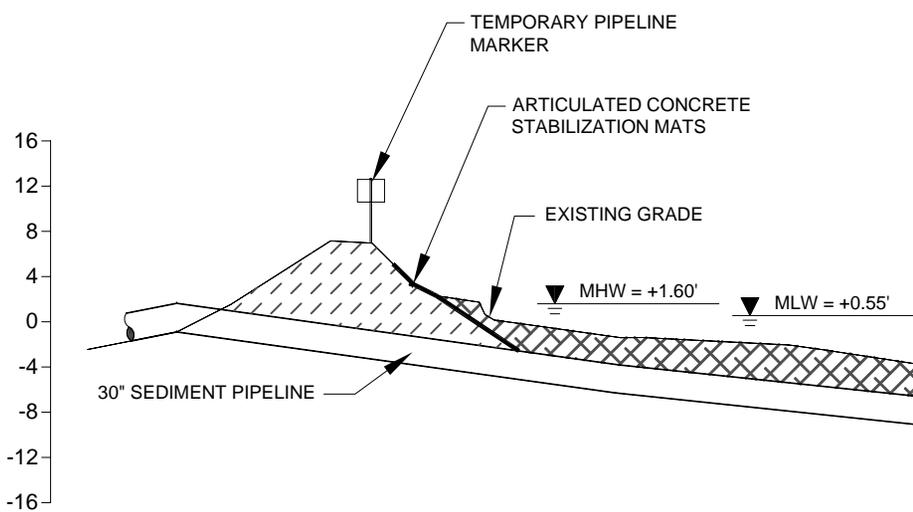
DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

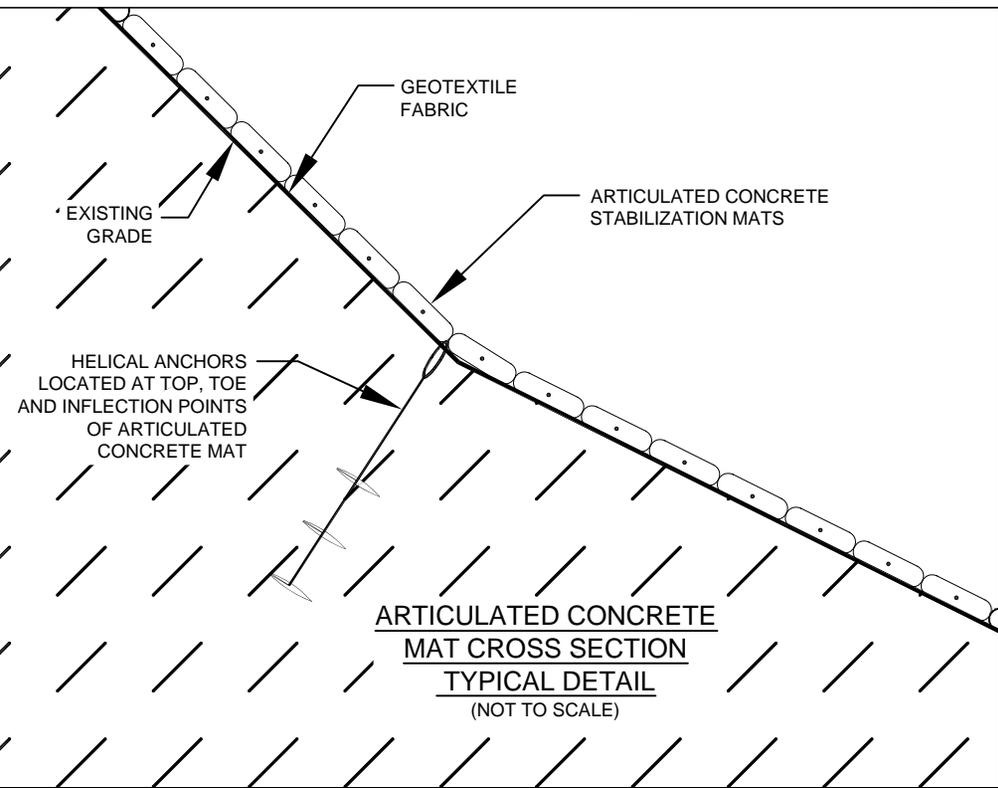
FEDERAL PROJECT NUMBER: BA-40

SHEET 26 OF 36

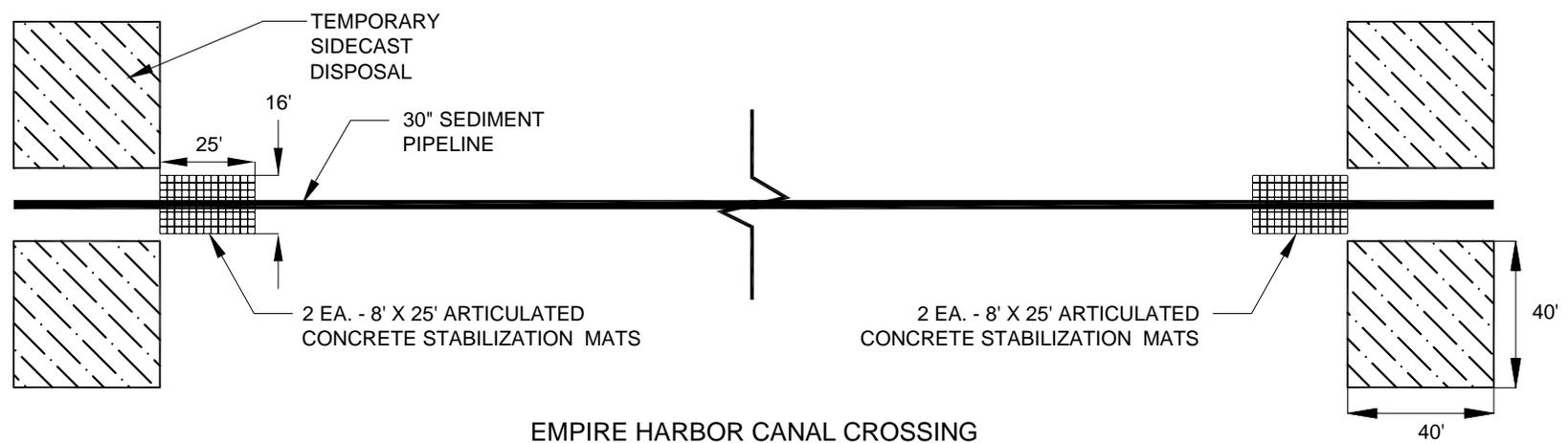
ELEVATION (FT NAVD88)



**EMPIRE HARBOR CANAL
CROSSING BANK STABILIZATION
TYPICAL DETAIL
(NOT TO SCALE)**

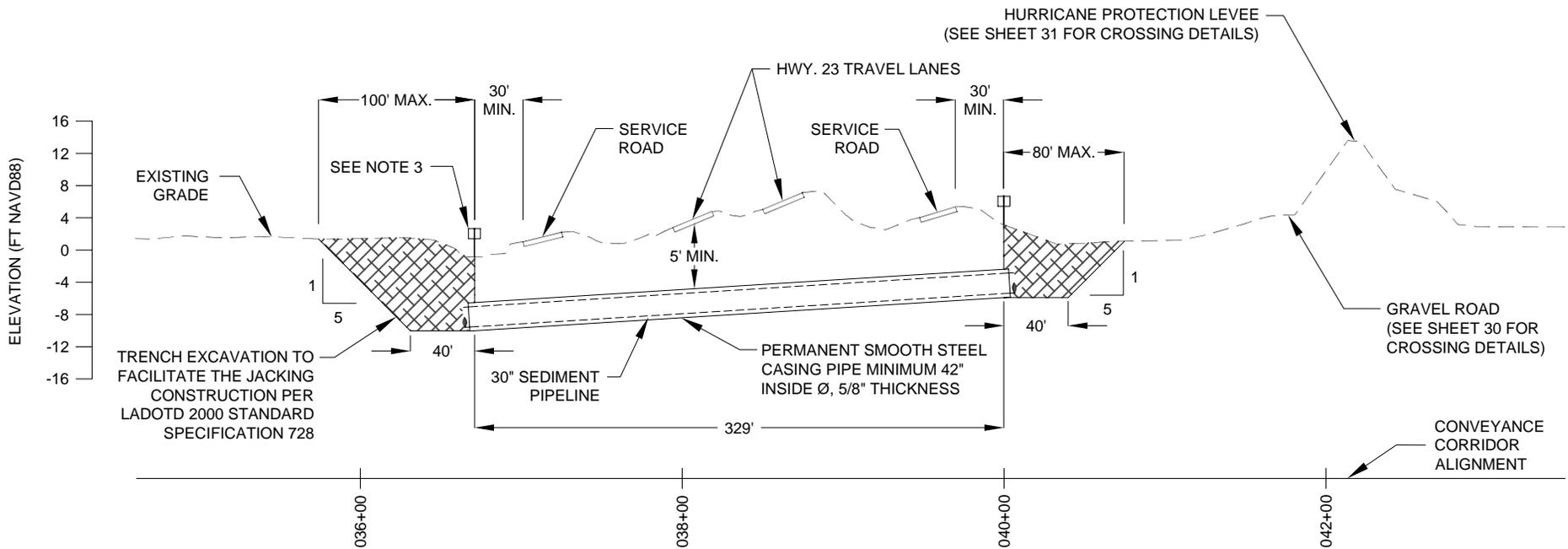


**ARTICULATED CONCRETE
MAT CROSS SECTION
TYPICAL DETAIL
(NOT TO SCALE)**



**EMPIRE HARBOR CANAL CROSSING
BANK STABILIZATION TYPICAL DETAIL
(NOT TO SCALE)**

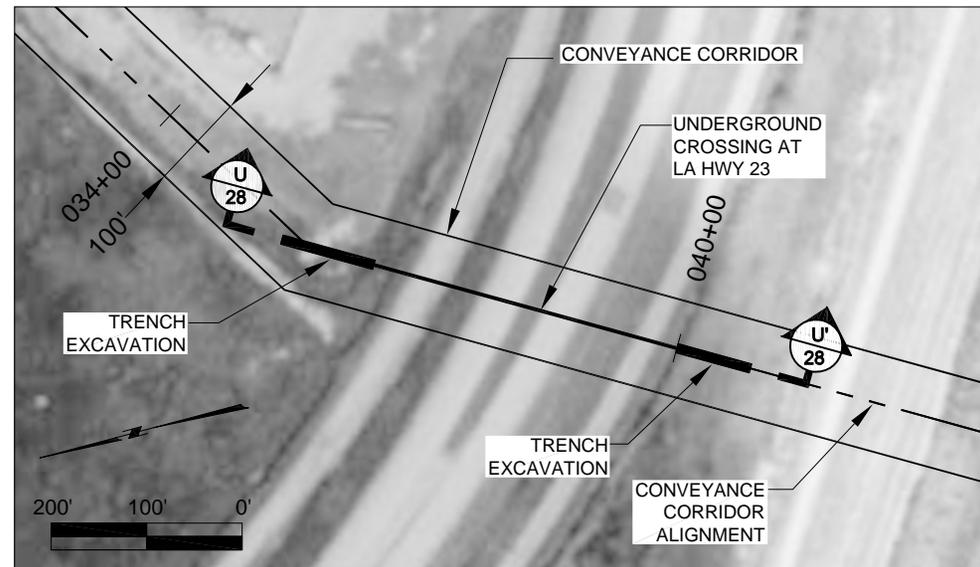
BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC.  SJB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	BANK STABILIZATION TYPICAL DETAIL		
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011					STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
							FEDERAL PROJECT NUMBER: BA-40	SHEET 27 OF 36
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.				



**HIGHWAY 23 CROSSING DETAIL
SECTION U - U'**

NOTES:

1. THE CONTRACTOR SHALL JACK THE MINIMUM 42" STEEL CASING PIPE UNDER THE TRAVEL LANES OF LOUISIANA HIGHWAY 23 IN ACCORDANCE WITH LADOTD 2000. STANDARD SPECIFICATION 728. CASING PIPE DIAMETER SHALL BE NO GREATER THAN 48".
2. THE CASING PIPE SHALL BE MADE OF SMOOTH STEEL, ASTM A 139 GRADE B, WITH MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL BE COATED WITH COAL TAR EPOXY-POLYAMIDE PAINT, IN ACCORDANCE WITH THE LADOTD 2000 STANDARD SPECIFICATION 1008.04.
3. SEE SHEET 29 FOR PERMANENT CASING PIPE MARKER CONSTRUCTION DETAILS.
4. THE 40' MINIMUM JACK PIT DISTANCE SHOWN IS BASED ON THE PROPOSED ALIGNMENT AND THE STANDARD HIGHWAY SPECIFICATIONS WHICH ARE INCLUDED IN THE PROJECT SPECIFICATIONS.
5. TRENCH EXCAVATION SIDE SLOPES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
6. SURVEYS CONDUCTED BY SJB GROUP, LLC., JULY 2008.
7. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011



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

RIVERINE SAND MINING /
SCOFIELD ISLAND
RESTORATION

STATE PROJECT NUMBER: BA-40

HIGHWAY 23
CROSSING DETAIL

DATE: NOVEMBER, 2010

DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

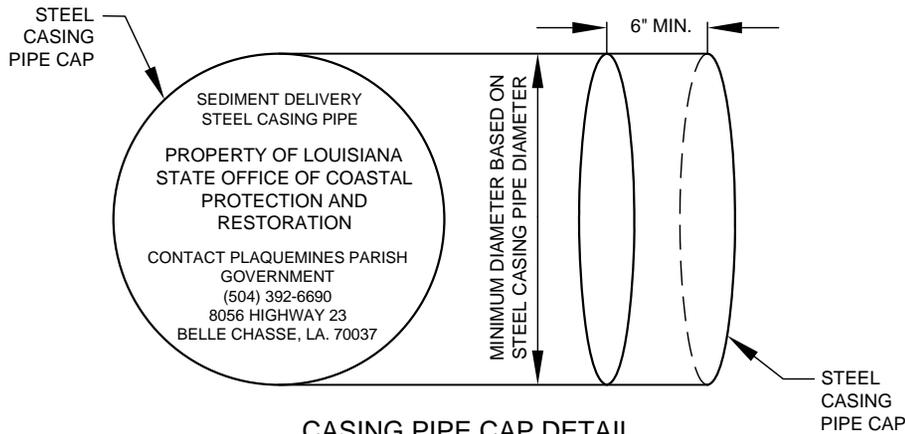
SHEET 28 OF 36

WARNING
DO NOT ANCHOR
OR DREDGE
SEDIMENT
DELIVERY PIPELINE

CONTACT PLAQUEMINES
 PARISH GOVERNMENT
 (504) 392-6690
 8056 HIGHWAY 23
 BELLE CHASSE, LA. 70037

42 INCH SEDIMENT DELIVERY
 STEEL CASING PIPE
 PROPERTY OF LOUISIANA
 STATE OFFICE OF
 COASTAL PROTECTION
 AND RESTORATION

CONTACT PLAQUEMINES
 PARISH GOVERNMENT
 (504) 392-6690
 8056 HIGHWAY 23
 BELLE CHASSE, LA. 70037



CASING PIPE CAP DETAIL
 NOT TO SCALE

- NOTES:**
1. STEEL CASING PIPE CAPS SHALL BE 1/2" THICK AND SHALL BE COATED WITH COAL TAR EPOXY POLYAMIDE PAINT, IN ACCORDANCE WITH THE LADOTD 2000 STANDARD SPECIFICATION 1008.04.
 2. CAPS SHALL BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AFTER DREDGING OPERATIONS ARE COMPLETE, FILL ELEVATIONS HAS BEEN ACCEPTED, AND SEDIMENT PIPELINE HAS BEEN REMOVED. CAPS SHALL BE WELDED TO CASING PIPE AND SHALL BE WATER TIGHT.

**CANAL CROSSING PIPE
 MARKER DETAIL**
 NOT TO SCALE

- NOTES:**
1. ONE MARKER SHALL BE PLACED ON EACH SIDE OF THE EMPIRE HARBOR CANAL CROSSING.
 2. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LADOTD 2000 STANDARD SPECIFICATION 729.
 3. A PROPOSED DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN THE WORK PLAN PRIOR TO CONSTRUCTION.
 4. MARKERS SHALL BE PLACED SUBSEQUENT TO SEDIMENT PIPELINE INSTALLATION AND REMOVED FOLLOWING TO SEDIMENT PIPELINE REMOVAL.

**CASING PIPE MARKER
 DETAIL**
 NOT TO SCALE

- NOTES:**
1. ONE MARKER SHALL BE PLACED ON EACH SIDE OF LOUISIANA HIGHWAYS 23 & 11 AND AT EACH END OF THE CASING PIPES.
 2. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LADOTD 2000 STANDARD SPECIFICATION 729.
 3. A PROPOSED DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN THE WORK PLAN PRIOR TO CONSTRUCTION.
 4. MARKERS SHALL BE PLACED SUBSEQUENT TO BACKFILLING THE JACKING PIT AND PRIOR TO DEMOBILIZATION.

BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011



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

RIVERINE SAND MINING /
 SCOFIELD ISLAND
 RESTORATION

STATE PROJECT NUMBER: BA-40

SEDIMENT PIPELINE
 CASING CAP AND
 MARKER DETAIL

DATE: NOVEMBER, 2010

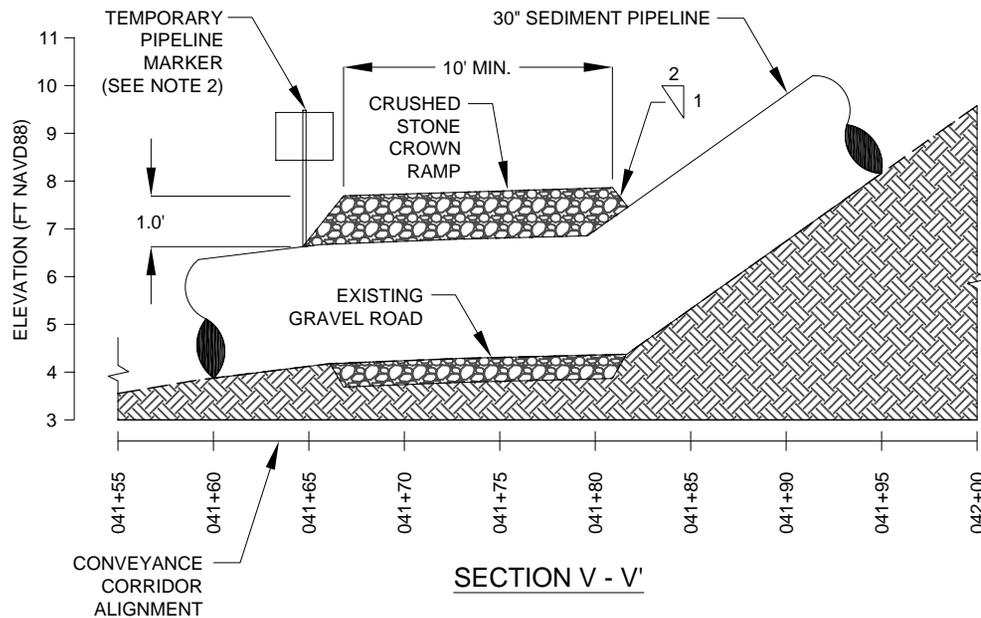
DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

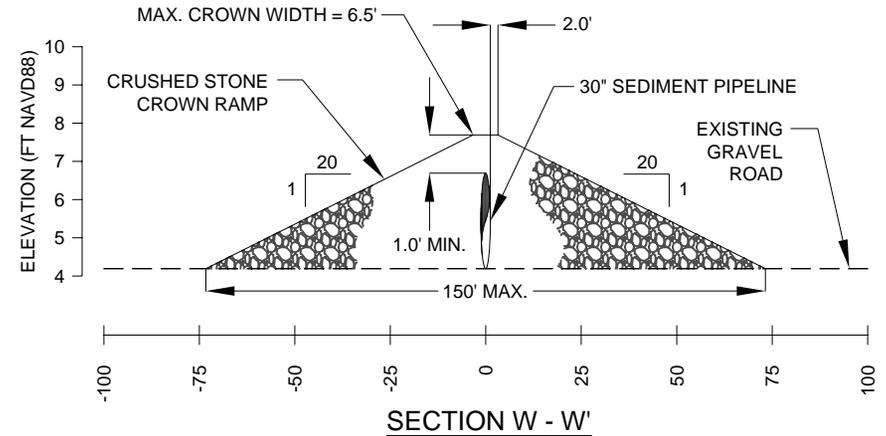
FEDERAL PROJECT NUMBER: BA-40

SHEET 29 OF 36

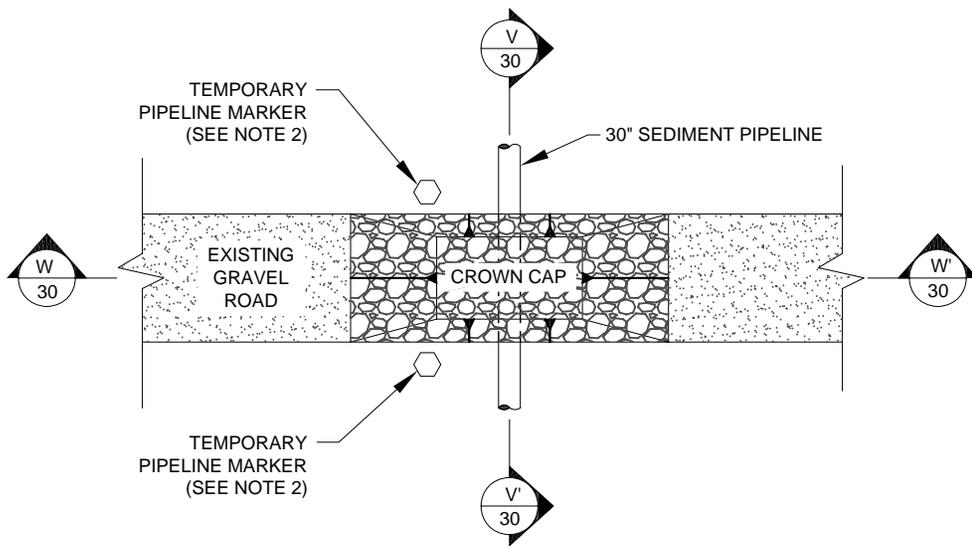


SECTION V - V'

- NOTES:
1. THE CROWN RAMP OVER THE SEDIMENT PIPELINE CROSSING SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LADOTD 2000 STANDARD SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF EACH INFRASTRUCTURE CROSSING BY THE SEDIMENT PIPELINE.
 5. CONTRACTOR MAY USE CROSSING DETAIL SHOWN FOR DIRT ROAD CROSSINGS, GRAVEL ROAD CROSSINGS AND DRIVEWAY CROSSINGS.
 6. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.
 7. SURVEYS CONDUCTED BY SJB GROUP, LLC., JULY 2008.



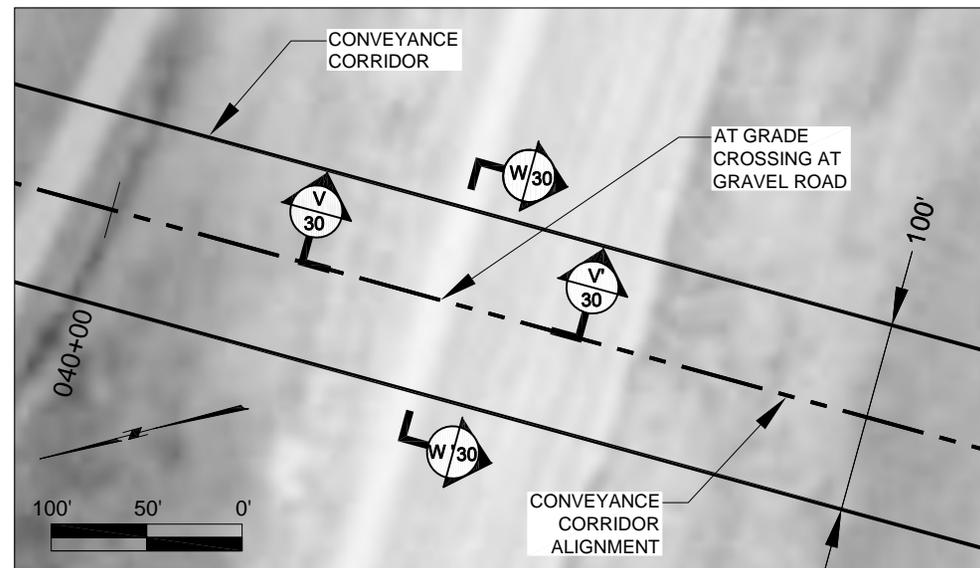
SECTION W - W'



GRAVEL ROAD CROSSING

PLAN VIEW

NOT TO SCALE



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC.
SJB GROUP, LLC
 QUALITY BY DESIGN

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

RIVERINE SAND MINING /
 SCOFIELD ISLAND
 RESTORATION

GRAVEL ROAD
 CROSSING DETAIL

STATE PROJECT NUMBER: BA-40

DATE: NOVEMBER, 2010

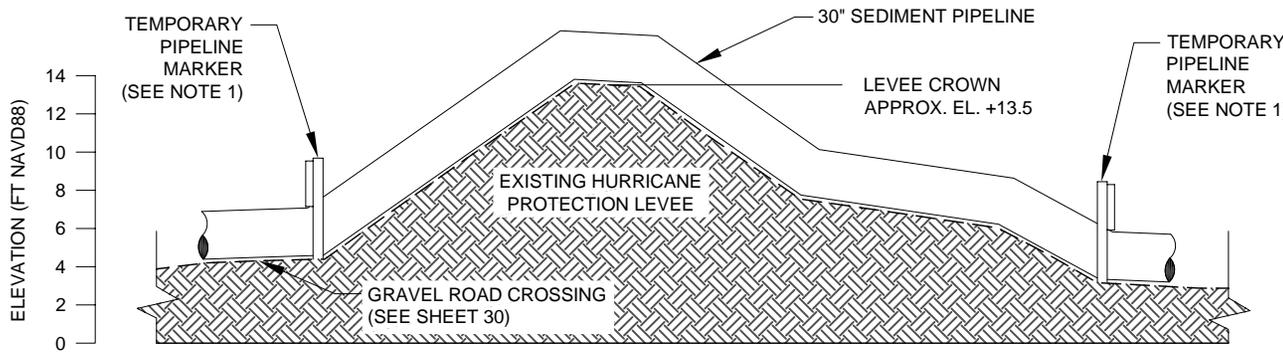
DRAWN BY: DARTEZ \ ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 30 OF 36

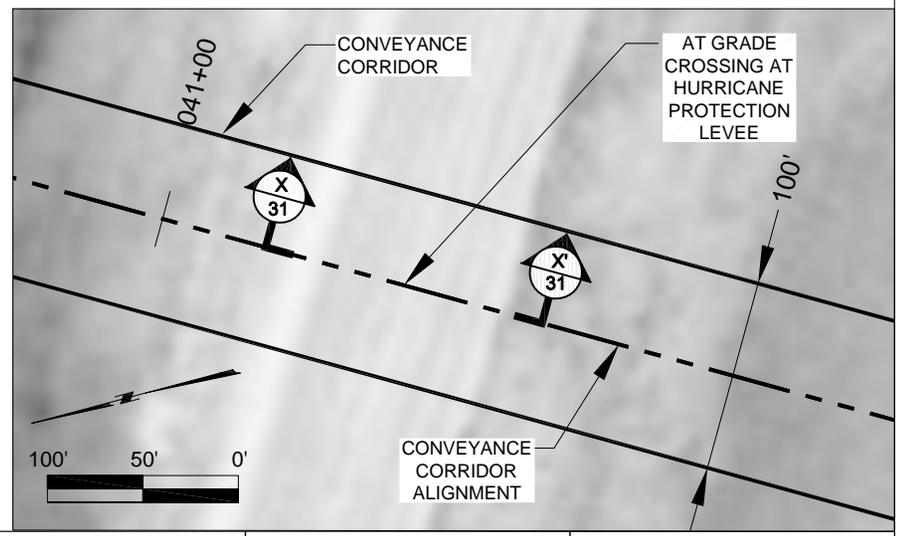
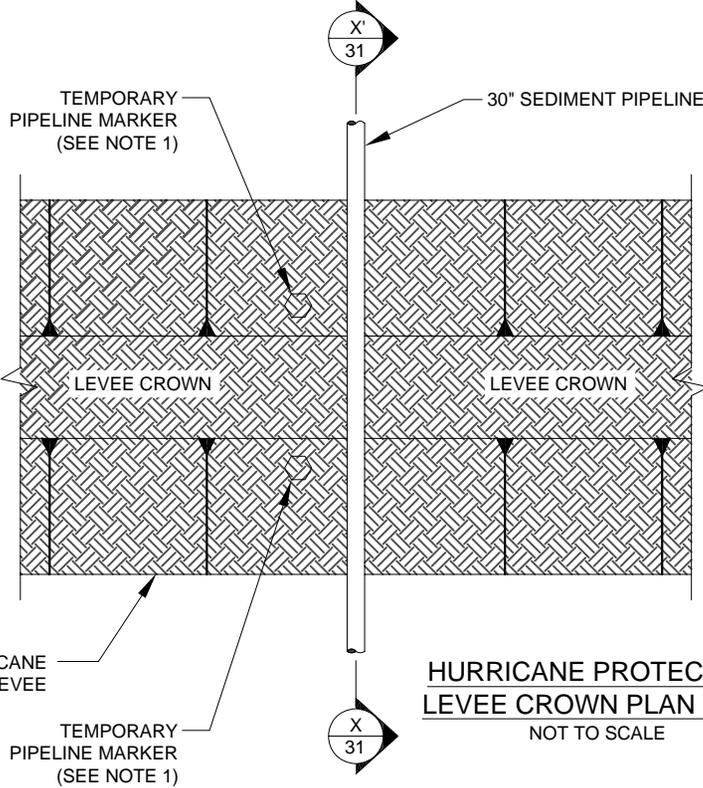
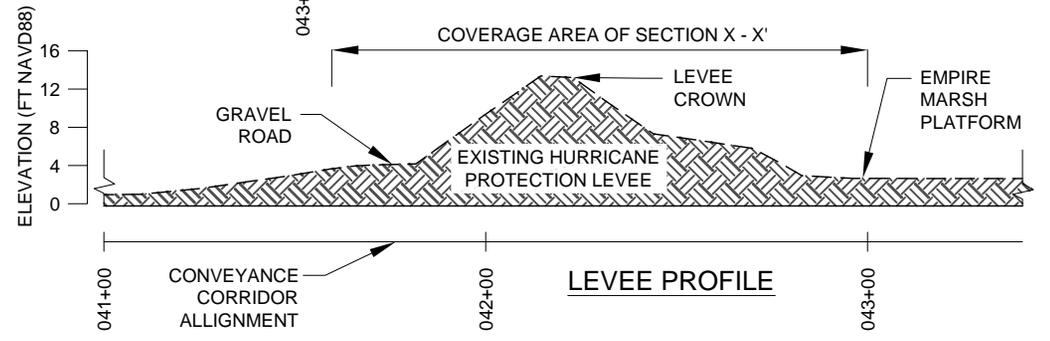


- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF EACH INFRASTRUCTURE CROSSING BY THE SEDIMENT PIPELINE.
 2. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.
 3. SURVEYS CONDUCTED BY SJB GROUP, LLC., JULY 2008.

SECTION X - X'

CONVEYANCE CORRIDOR ALIGNMENT

042+00 042+50



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

DRAWN BY: DARTEZ \ ZWERNEMAN

COASTAL ENGINEERING CONSULTANTS, INC.

SJB GROUP, LLC
QUALITY BY DESIGN

DESIGNED BY: MICHAEL T. POFF, P.E.

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

APPROVED BY: MAURY CHATELLIER, P.E.

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

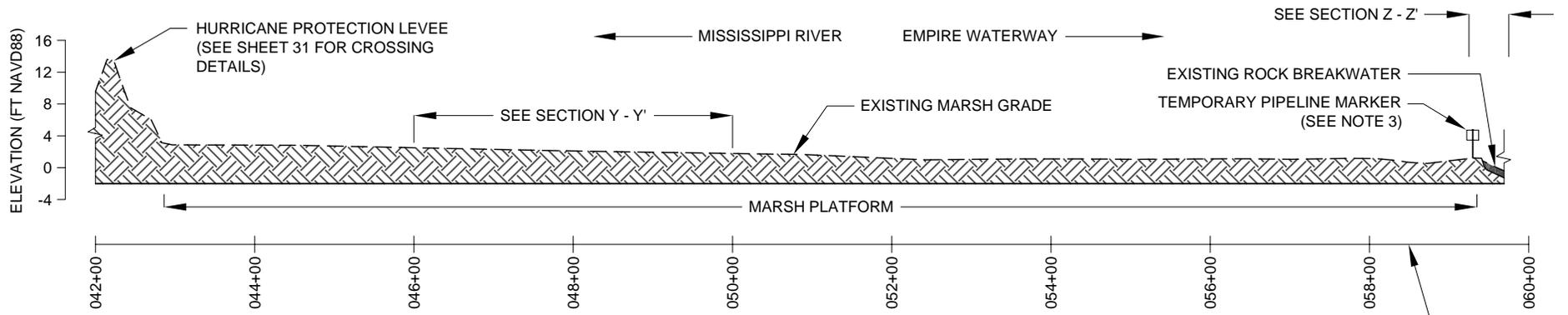
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FEDERAL PROJECT NUMBER: BA-40

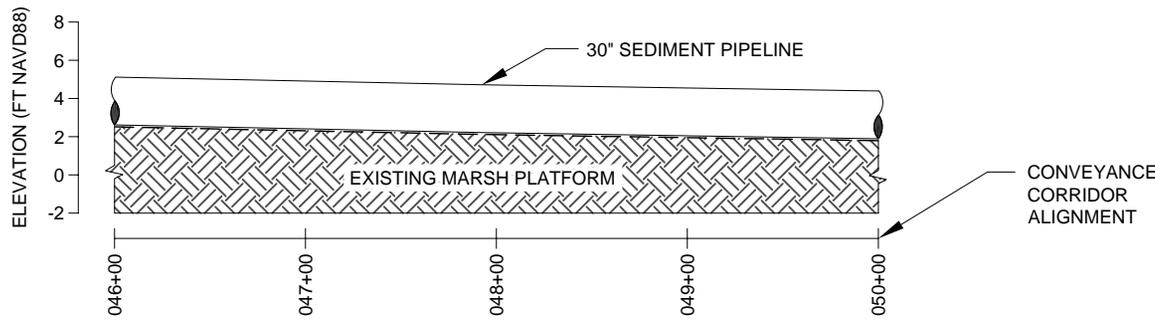
HURRICANE PROTECTION LEVEE CROSSING DETAIL

DATE: NOVEMBER, 2010

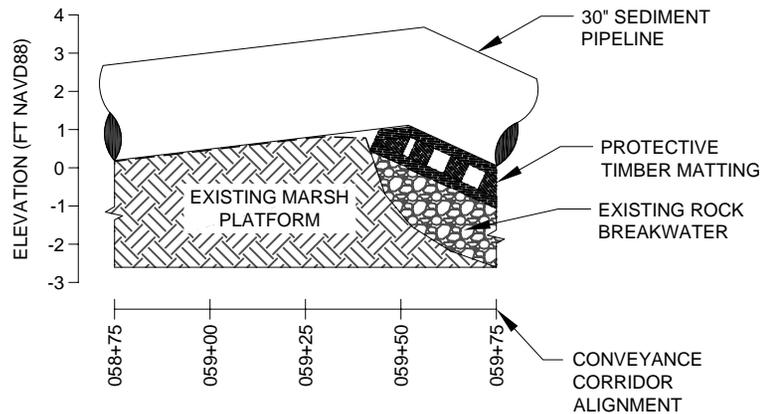
SHEET 31 OF 36



MARSH PROFILE

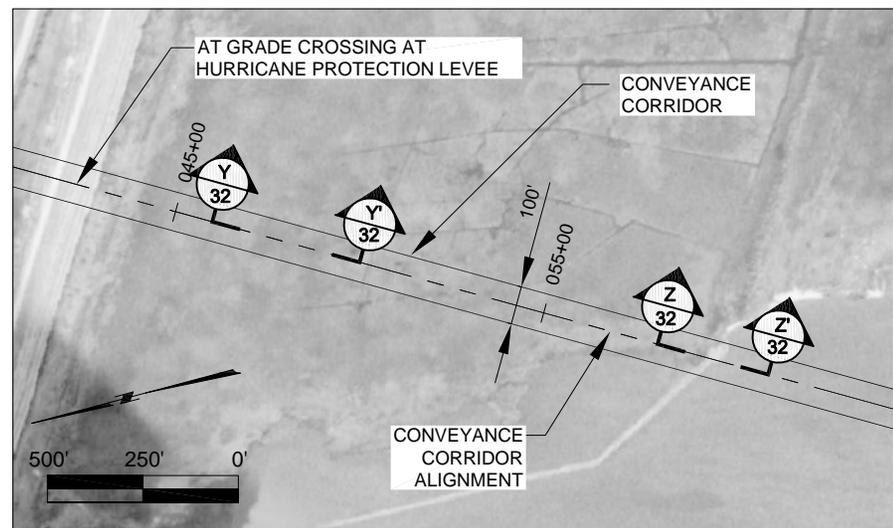


SECTION Y - Y'



SECTION Z - Z'

- NOTES:**
1. SURVEYS CONDUCTED BY SJB GROUP, LLC., JULY 2008.
 2. SEE SHEETS 14 - 18 FOR CONVEYANCE CORRIDOR ALIGNMENT.
 3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF EACH INFRASTRUCTURE CROSSING BY THE SEDIMENT PIPELINE



BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC

SJB GROUP, LLC
QUALITY BY DESIGN

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

DESIGNED BY: MICHAEL T. POFF, P.E.
APPROVED BY: MAURY CHATELLIER, P.E.

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION

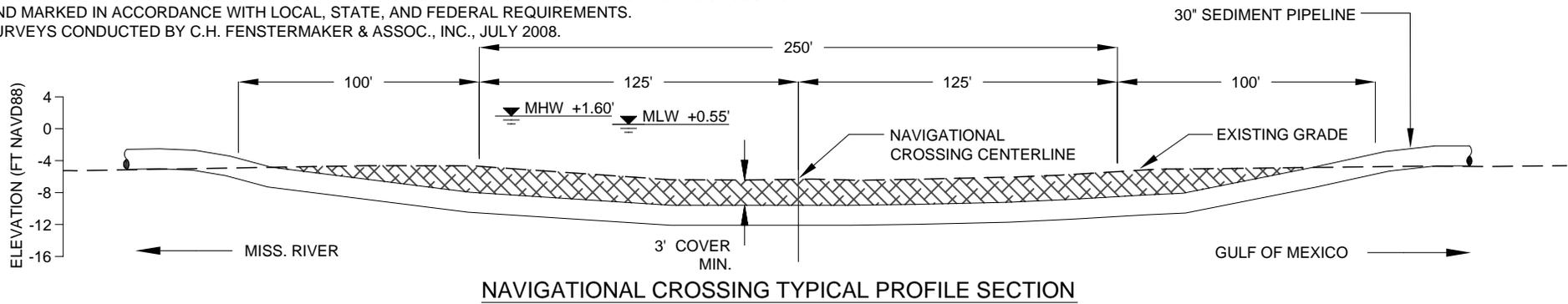
STATE PROJECT NUMBER: BA-40
FEDERAL PROJECT NUMBER: BA-40

EMPIRE MARSH & ROCK REVETMENT CROSSING DETAIL

DATE: NOVEMBER, 2010
SHEET 32 OF 36

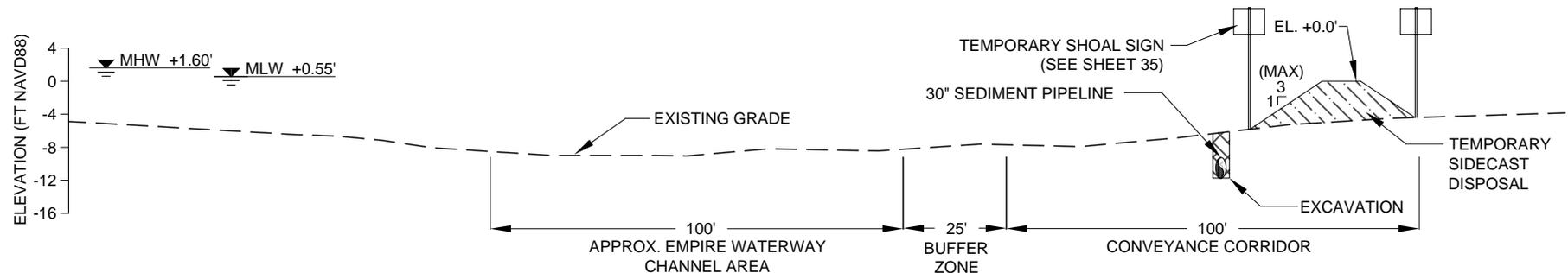
NOTES:

1. SEDIMENT PIPELINE SHALL BE PLACED A MINIMUM OF 3 FEET BELOW EXISTING GRADE AT NAVIGATIONAL CROSSINGS.
2. PLACEMENT BELOW GRADE SHALL BE FOR A DISTANCE OF 250 FEET ACROSS NAVIGATIONAL CROSSING AND MARKED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
3. SURVEYS CONDUCTED BY C.H. FENSTERMAKER & ASSOC., INC., JULY 2008.



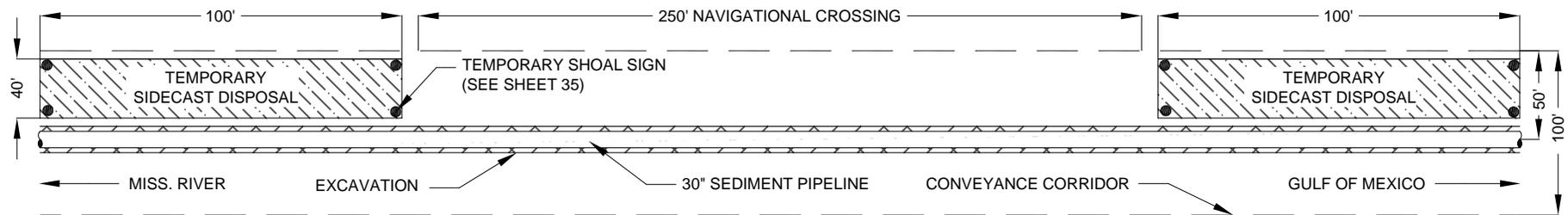
NAVIGATIONAL CROSSING TYPICAL PROFILE SECTION

NOT TO SCALE



NAVIGATIONAL CROSSING TYPICAL CROSS SECTION

NOT TO SCALE



NAVIGATIONAL CROSSING TYPICAL PLAN VIEW

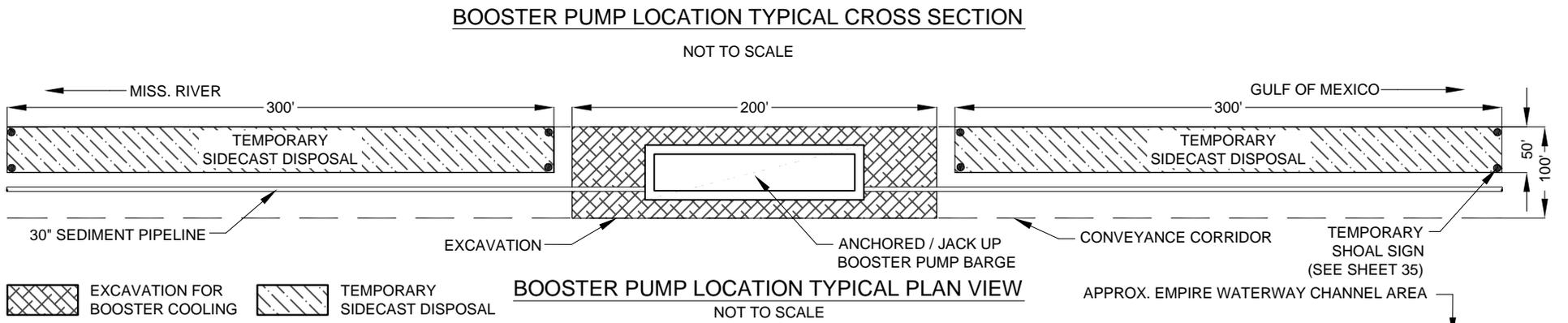
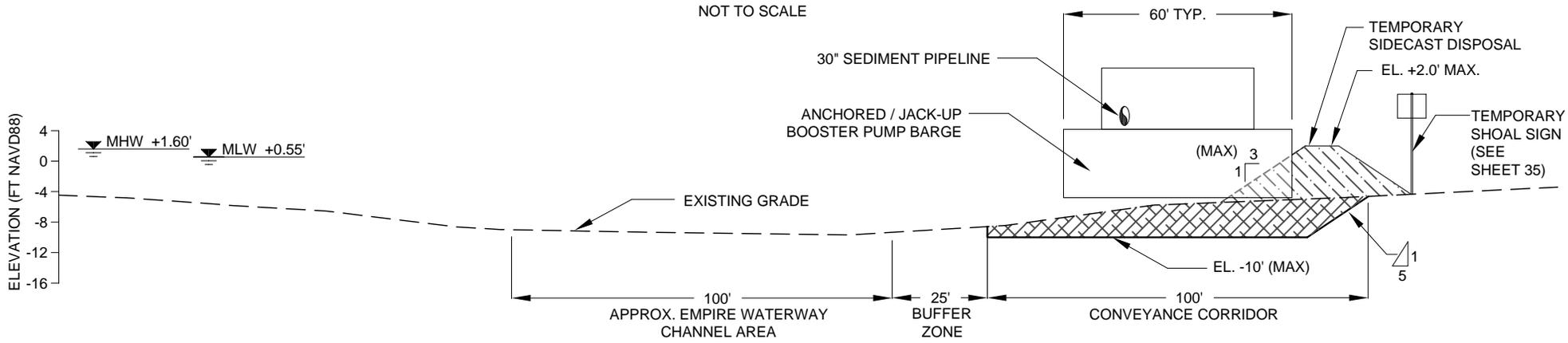
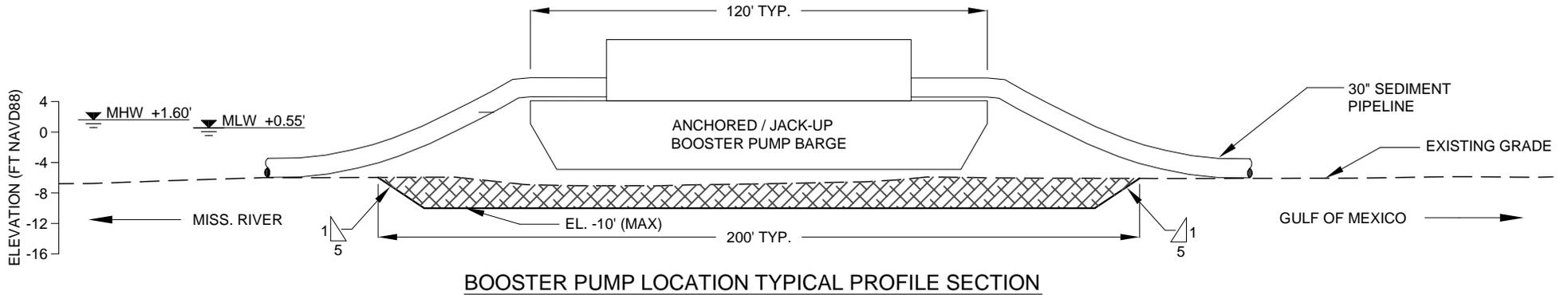
NOT TO SCALE

 TRENCH EXCAVATION (EXTENDS TO BOTTOM OF PIPE)
  TEMPORARY SIDECAST DISPOSAL

BY	DESCRIPTION	DATE	 COASTAL ENGINEERING CONSULTANTS, INC  SJB GROUP, LLC <small>QUALITY BY DESIGN</small>	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	EMPIRE WATERWAY NAVIGATIONAL TYPICAL CROSSING DETAIL
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011				
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-40	DATE: NOVEMBER, 2010
					FEDERAL PROJECT NUMBER: BA-40	SHEET 33 OF 36

NOTES:

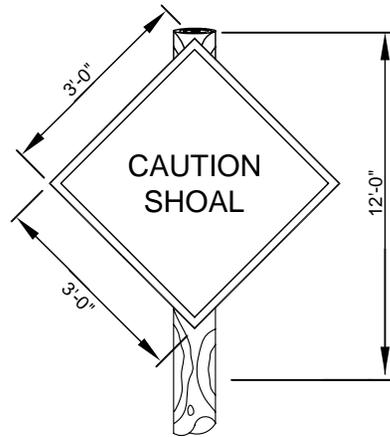
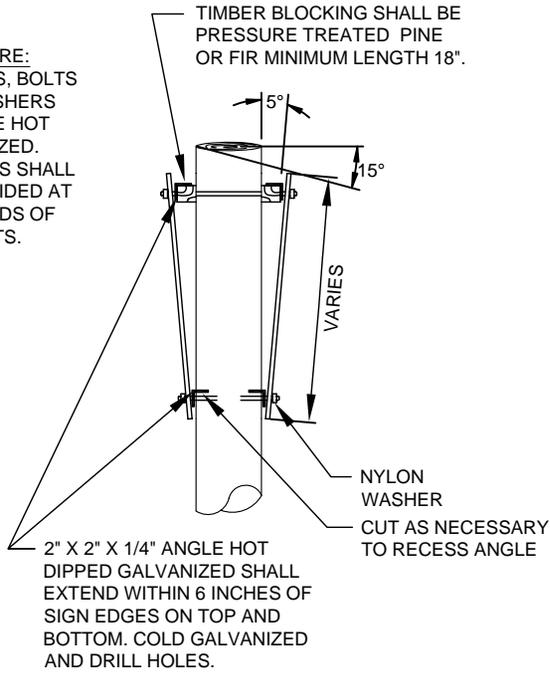
1. BARGE ANCHORS OR JACK-UP LEGS SHALL NOT BE PLACED WITHIN 50' OF ANY EXISTING PIPELINES OR UTILITIES.
2. SURVEYS CONDUCTED BY C.H. FENSTERMAKER, JULY 2008.



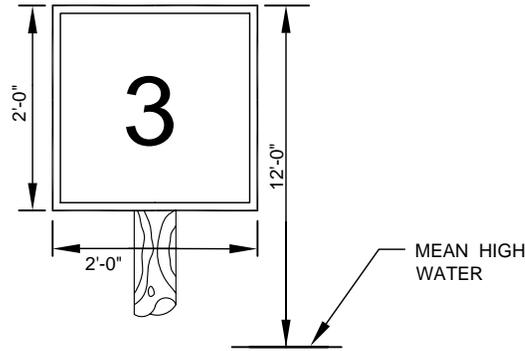
BY MTP	DESCRIPTION CMD/USACE/STAKEHOLDER COMMENT RESPONSE	DATE 02/01 2011	 	OFFICE OF COASTAL PROTECTION & RESTORATION RESTORATION DIVISION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION	BOOSTER PUMP SITE TYPICAL DETAIL
						STATE PROJECT NUMBER: BA-40
DRAWN BY: DARTEZ \ ZWERNEMAN			DESIGNED BY: MICHAEL T. POFF, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-40	SHEET 34 OF 36

HARDWARE:
ALL NUTS, BOLTS
AND WASHERS
SHALL BE HOT
GALVANIZED.
WASHERS SHALL
BE PROVIDED AT
BOTH ENDS OF
ALL BOLTS.

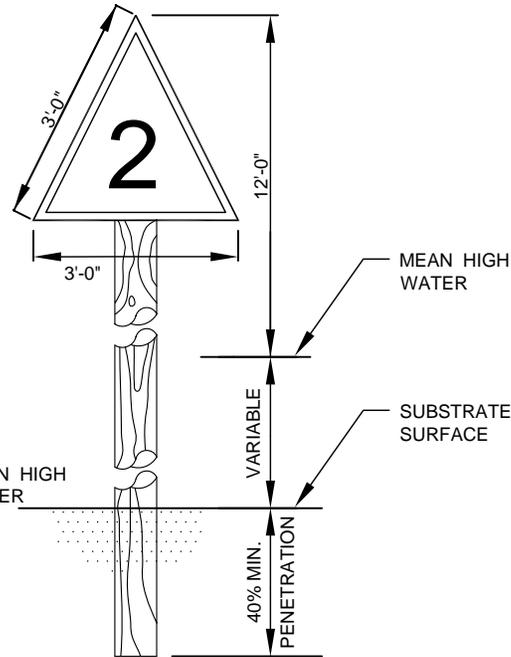
TIMBER BLOCKING SHALL BE
PRESSURE TREATED PINE
OR FIR MINIMUM LENGTH 18".



SHOAL SIGN (S)
NOT TO SCALE



GREEN DAY MARKER (G)
NOT TO SCALE



RED DAY MARKER (R)
NOT TO SCALE

NOTES:

- SIGNS SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 20 & 34.
- ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS IN ACCORDANCE WITH 33 CFR 330.4 (a) (1).
- THE SIGNS SHALL HAVE THE DIMENSIONS AND MESSAGES SHOWN. THERE ARE TWO SIGNS PER PILE.
- THE SHOAL SIGNS SHALL BE CONSTRUCTED WITH 125 GAUGE 61TS ALUMINUM, COVERED WITH WHITE, ENGINEER GRADE, REFLECTIVE SHEETING; BLACK SCREENED LETTERING AND DESIGN; AND ORANGE, ENGINEER GRADE, REFLECTIVE BORDER.
- NAVIGATION DAY MARKERS SHALL BE CONSTRUCTED OF 125 GAUGE 61TS ALUMINUM, COVERED WITH THE APPROPRIATE RED OR GREEN SHEETING; BLACK SCREENED LETTERING AND DESIGN; AND APPROPRIATE DARKER RED OR GREEN, ENGINEER GRADE, REFLECTIVE BORDER.
- TIMBER PILING SHALL BE 40-FEET IN LENGTH WITH A NOMINAL 12-INCH DIAMETER BUTT AND 7-INCH MINIMUM DIAMETER AT THE TIP.
- HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
- THE CONTRACTOR HAS THE OPTION OF USING TEMPORARY BUOYS IN LIEU OF TIMBER PILES. BUOYS MUST BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO MOBILIZATION AND U.S. COAST GUARD STANDARDS.
- SIGNS AND SUPPORTS SHALL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO DEMOBILIZATION. IF PILES CANNOT BE REMOVED COMPLETELY, THEY MUST BE REMOVED TO 10 FEET BELOW THE EXISTING MUDLINE.

BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011

COASTAL ENGINEERING CONSULTANTS, INC
STB GROUP, LLC
QUALITY BY DESIGN

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

RIVERINE SAND MINING / SCOFIELD ISLAND RESTORATION
STATE PROJECT NUMBER: BA-40

NAVIGATION AND SHOAL SIGN DETAIL
DATE: NOVEMBER, 2010

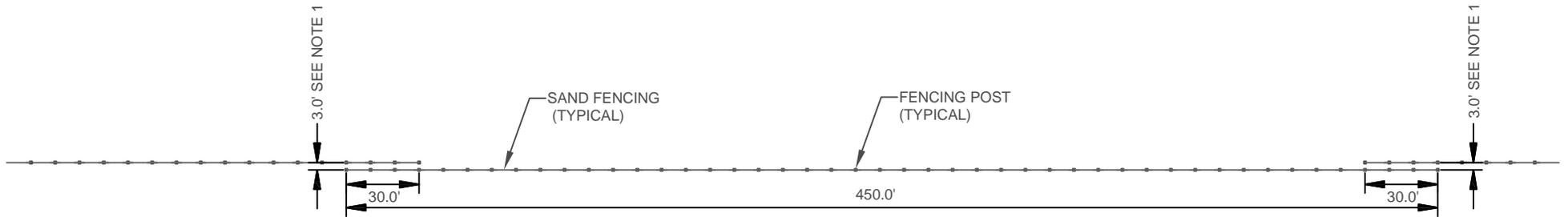
DRAWN BY: DARTEZ / ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

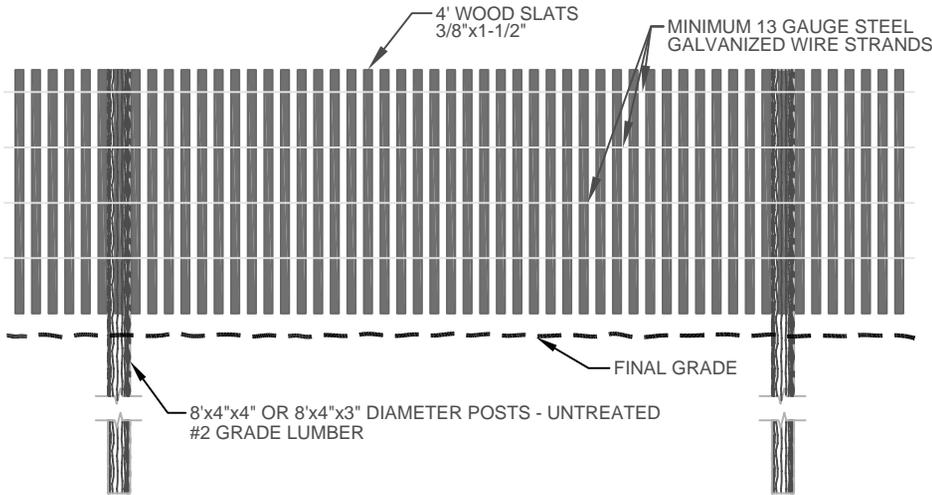
FEDERAL PROJECT NUMBER: BA-40

SHEET 35 OF 36

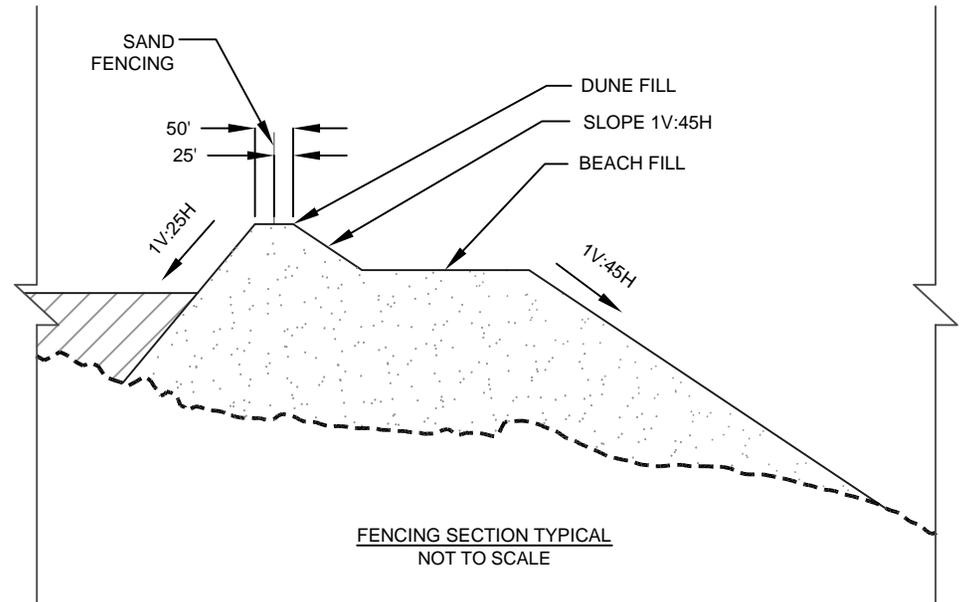


NOTES:
 1. THE DISTANCE BETWEEN FENCES SHALL BE INCREASED FROM 3.0' TO 6.0' AT EVERY FIFTH GAP TO ALLOW ALL-TERRAIN VEHICLE ACCESS.

FENCING GAPPING DIMENSIONS
 NOT TO SCALE



FENCING DETAIL
 NOT TO SCALE



FENCING SECTION TYPICAL
 NOT TO SCALE

BY	DESCRIPTION	DATE
MTP	CMD/USACE/STAKEHOLDER COMMENT RESPONSE	02/01 2011



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

RIVERINE SAND MINING /
 SCOFIELD ISLAND
 RESTORATION

SAND FENCING DETAIL

STATE PROJECT NUMBER: BA-40

DATE: NOVEMBER, 2010

DRAWN BY: DARTEZ / ZWERNEMAN

DESIGNED BY: MICHAEL T. POFF, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-40

SHEET 36 OF 36