PROJECT NO.	ENGINEERING CONTRACT NO.	PARISH	SHEET NO.
TE-50	2511-06-04	TERREBONNE	1

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

PLANS OF PROPOSED

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

SEPTEMBER 2008

TERREBONNE PARISH

INDEX TO SHEETS

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10	PROJECT COORDINATE TABLES
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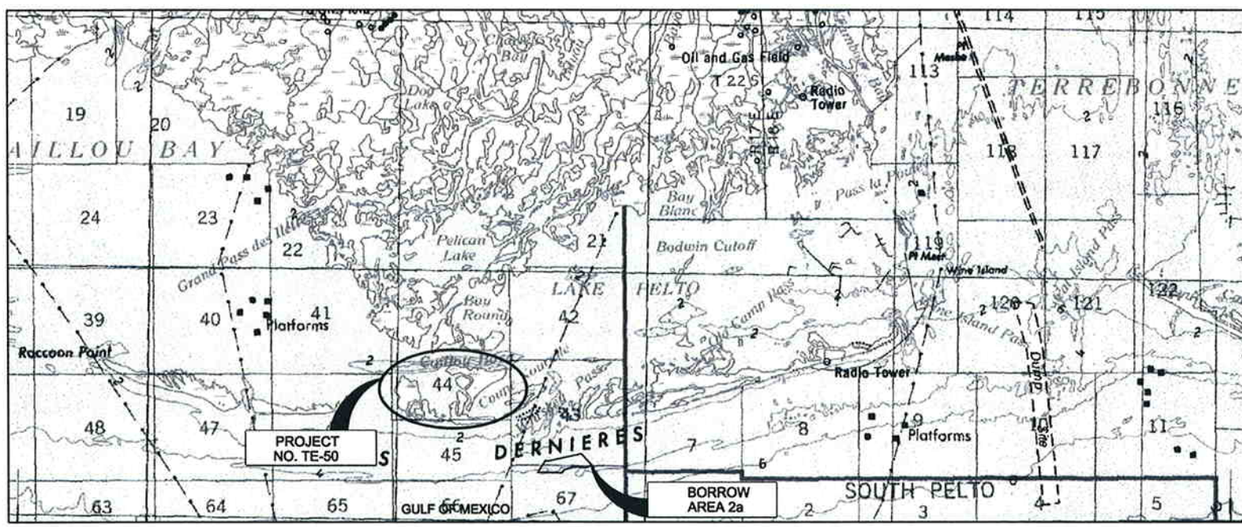
22	SETTLEMENT PLATE AND GRADE STAKE DETAILS

TYPE OF CONSTRUCTION

CLASSIFICATION III (HEAVY CONSTRUCTION)
HYDRAULIC DREDGING
CONTAINMENT LEVEES/STRUCTURES
CREEK / POND EXCAVATION



VICINITY MAP

20,000 10,000 0' 20,000 40,000

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
05/04/10

BENCHMARK: "TE-14-SM-01"
N: 199,323.20
E: 3,438,609.45
ELEV.: +2.29' NAVD

DATUM USED: VERTICAL - NAVD88, GEOID 03 MODEL, U.S. SURVEY FEET
HORIZONTAL - NAD83, LOUISIANA SOUTH ZONE, U.S. SURVEY FEET

RECOMMENDED FOR APPROVAL

LDNR C.E.D. DIRECTOR — DATE

RECOMMENDED FOR APPROVAL

LDNR C.E.D. ENGINEER MANAGER — DATE

RECOMMENDED FOR APPROVAL

LDNR C.E.D. PROJECT ENGINEER — DATE

FEDERAL PROJECT

STATE PROJECT

AS-BUILT

REV	DATE	DESCRIPTION	BY

MOFFATT & NICHOL

T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
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BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

TITLE PAGE

DATE: SEPTEMBER 2008

SHEET 1 OF 22

GENERAL NOTES

1) ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83), LOUISIANA STATE PLANE, SOUTH ZONE, U.S. SURVEY FEET. HORIZONTAL AND VERTICAL DATUM INFORMATION IS BASED ON POINT, "TE-14-SM-01", X = 3,438,609.45; Y = 199,323.20; ELEVATION = 2.29' (NAVD 88).

2) MEAN LOW WATER (MLW) EQUALS 0.0 FT. NAVD88, MEAN SEA LEVEL(MSL) EQUALS 0.86 FT. NAVD88, AND MEAN HIGH WATER(MHW) EQUALS 1.6 FT. NAVD88. TIDAL DATUMS ARE BASED ON RELATIONSHIP DEVELOPED AS PART OF THE SHIP SHOAL: WHISKY ISLAND WEST FLANK RESTORATIONS (TE-47) STUDY.

3) AERIALS IMAGES USED FOR PROJECT DRAWING BACKGROUNDS ARE EITHER 2005 DOQQ IMAGES OR 2006 AERIALS FLOWN FOR THIS PROJECT. SOURCE OF AERIAL IS NOTED ON EACH DRAWING.

4) OYSTER LEASES ARE IN THE VICINITY OF THE WORK. HOWEVER IT IS NOT ANTICIPATED THAT ANY WILL BE DIRECTLY AFFECTED BY THE WORK. THE CONTRACTOR SHALL NOT DREDGE OR DISTURB SEABEDS WITHIN THE LIMIT OF OYSTER LEASES SHOWN ON THE DRAWING AND NOT DIRECTLY AFFECTED BY THE WORK.

5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING SAFE ACCESS TO THE PROJECT AREA AND FOR NAVIGATING WITHIN THE AREA THROUGHOUT THE ENTIRE CONSTRUCTION PHASE. THE ENGINEER OR HIS REPRESENTATIVE WILL MONITOR THE PROJECT AREA AND ACCESS LOCATIONS DURING CONSTRUCTION.

6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE INITIALLY MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND SHALL HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY ARE SHOWN ON SHEET 3 OF THE DRAWINGS. THE CONTRACTOR SHALL CALL LOUISIANA-ONE-CALL AND PIPELINE SAFETY (225) 342-3417, FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION. THE CONTRACTOR SHALL NOT PERFORM ANY OPERATIONS WITHIN 1,000' OF A PIPELINE.

7) THE RECOMMENDED BORROW AREAS ARE SHOWN ON SHEETS 8-9 OF THE DRAWINGS. BORROW SOURCE INFORMATION TAKEN FROM A 2006 SURVEY DONE BY OCEAN SURVEYS, INC. THE LOCATION OF ALL VIBRACORES AND SAND VERIFICATION CORES ARE AVAILABLE UPON REQUEST. BASED ON THE INFORMATION GIVEN IN THESE DRAWINGS, THE CONTRACTOR SHALL DEVELOP A DREDGING PLAN TO BE APPROVED BY THE ENGINEER. IN NO CASE SHALL THE CONTRACTOR DREDGE BELOW OR OUTSIDE THE LIMITS STATED ON SHEETS 8-9 OF THE PLANS OR IN THE SPECIFICATIONS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER.

8) VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MARCH 2006 TO JUNE 2006. FOR THE PROJECT AREAS (MARSH FILL AND DUNE FILL), BEFORE AND AFTER DREDGING, CROSS SECTIONS OF THE FILL AREAS SHALL BE SURVEYED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT PURPOSES. THE CONTRACTOR SHALL ALSO SURVEY THE BORROW AREA PRIOR TO BEGINNING DREDGING FOR THE MARSH FILL, PRIOR TO BEGINNING DREDGING FOR THE DUNE FILL, IF AWARDED, AND AFTER ALL DREDGING IS COMPLETE. ALL SURVEY WORK PERFORMED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY THE ENGINEER OR HIS REPRESENTATIVE. THE ENGINEER SHALL REVIEW ALL BEFORE AND AFTER SURVEY CROSS-SECTIONS AND MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED THE ENGINEER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.

9) CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS OF THE EFFLUENT STRUCTURES TO THE ENGINEER FOR APPROVAL.

10) MAXIMUM VERTICAL TOLERANCE FOR MARSH AND DUNE FILL PLACEMENT IS 0.5 FT. BELOW AND ABOVE THE TYPICAL DESIGN TEMPLATE SHOWN ON SHEET 6 AND 7 OF THE PROJECT PLANS.

11) THE CONTRACTOR IS REQUIRED TO PROVIDE CONTINUAL MAINTENANCE OF THE PRIMARY AND SECONDARY DIKES SO THAT THEY PERFORM THEIR INTENDED FUNCTION DURING THE CONSTRUCTION PERIOD FOR WHICH THEY ARE NEEDED. THE CROWN SECTION OF ALL CONTAINMENT DIKES WILL BE DEGRADED, I.E. THE CREST ELEVATION LOWERED, PRIOR TO DEMOBILIZATION. THE SECONDARY DIKES SHALL BE DEGRADED SO THAT THERE IS A SMOOTH TRANSITION BETWEEN THE DIKE AND THE NEWLY CONSTRUCTED MARSH PLATFORM AT THE TIME THE WORK IS BEING PERFORMED. THE ENGINEER AND OWNER WILL EVALUATE THE MARSH PLATFORM ELEVATION AND STABILITY PRIOR TO DEGRADING THE PRIMARY CONTAINMENT DIKES TO RECOMMEND A FINISHED ELEVATION OF THE PRIMARY DIKE AFTER DEGRADING. IN ANY CASE, THE FINISHED ELEVATION OF THE PRIMARY DIKE WILL NOT BE LOWER THAN THE MARSH PLATFORM ELEVATION NOR WILL THE ELEVATION BE HIGHER THAN 0.6' ABOVE THE MARSH PLATFORM ELEVATION. THE FILL REMOVED FROM ALL DIKES SHALL BE SPREAD EVENLY TO FORM A SMOOTH TRANSITION WITH THE MARSH FILL AREA. THE PRIMARY DIKE SHALL ALSO BE BREACHED TO A DEPTH ~~+1.0' NAVD AT ITS INTERSECTION WITH THE TWO CREEKS.~~ OF EQUAL TO THE NEW MARSH FULL ELEVATION AT IT'S INTERSECTION WITH THE TWO CREEKS AND THIRD ADDED OPENING.

12) THE CONTRACTOR SHALL NOT TRAVEL AND/OR STORE MATERIALS/EQUIPMENT AND/OR CONDUCT CONSTRUCTION ACTIVITIES ON EXISTING VEGETATED DUNES AND MARSHES UNLESS AUTHORIZED BY THE ENGINEER.

13) THE ENVIRONMENTAL ASSESSMENT (EA) FOR THIS PROJECT HAS IDENTIFIED THE PIPING PLOVER AND THE BROWN PELICAN AS THREATENED AND ENDANGERED SPECIES WHICH HAVE THE POTENTIAL FOR EXISTING WITHIN THE PROJECT SITE. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED WITHIN 1500 FEET OF NESTING BIRDS UNLESS APPROVED BY LDNR AND LDWF REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ANY OTHER RESTRICTIONS OF THE EA, AND ALL PERMITS REGARDING NESTING BIRDS.

14) NOT MORE THAN 20% BY WEIGHT OF SILT AND/OR CLAY (GRAIN SIZE < 0.075mm) WILL BE ALLOWED IN EACH CUBIC YARD OF SAND MATERIAL PLACED IN THE DUNE TEMPLATE SECTION.

15) PRE-CONSTRUCTION SURVEYS, PERFORMED BY THE CONTRACTOR, WILL BE USED BY THE ENGINEER TO UPDATE THESE CONSTRUCTION PLANS. THE ENGINEER WILL USE THESE UPDATED CROSS SECTIONS OF THE DUNE AND MARSH FILL AREAS AS FINAL BASELINE CONDITIONS OF THE FILL AREAS IN THE PLANS PRIOR TO CONSTRUCTION.

16) THE CONTRACTOR WILL BE ALLOWED A MAXIMUM OF THREE (3) CORRIDORS FOR DISCHARGE PIPING ACROSS THE EXISTING PORTIONS OF WHISKEY ISLAND. THE LOCATIONS OF THE CORRIDOR SHALL BE PROPOSED BY THE CONTRACTOR. THE CORRIDORS SHALL HAVE A MAXIMUM WIDTH OF 100 FEET. THE CORRIDORS SHALL NOT BE LOCATED ACROSS ANY EXISTING MARSH HABITAT. THE CONTRACTOR SHALL LOCATE THE CORRIDORS ACROSS EXISTING BEACH AND DUNE PORTIONS OF THE ISLAND TO MINIMIZE IMPACTS TO EXISTING VEGETATION. THE CORRIDOR LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

17) ONCE THE MARSH FILL AREA HAS BEEN CONSTRUCTED AND ACCEPTED AND PRIOR TO THE DUNE CONSTRUCTION (IF AWARDED), BORROW AREA SEDIMENTS DESIGNATED FOR MARSH FILL THAT WERE NOT NEEDED FOR MARSH FILL CONSTRUCTION MAY BE STRIPPED AND PUMPED INTO APPROVED PREVIOUSLY DREDGED SECTIONS OF THE BORROW AREA IF NECESSARY TO ACCESS UNDERLYING SEDIMENTS DESIGNATED FOR DUNE FILL. THE DISPOSAL OF THE EXCESS MARSH FILL SEDIMENTS WILL BE AT NO DIRECT PAY TO THE CONTRACTOR.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	DESIGN QUANTITY	AS-BUILT QUANTITY
1	MOBILIZATION & DEMOBILIZATION	LUMP	1	1
2	PRE & POST CONSTRUCTION SURVEYS	LUMP	1	1
3	HYDRAULIC DREDGING (IN PLACE)(MARSH FILL)	CU. YDS.	2,300,000	2,822,066
4a	PRIMARY CONTAINMENT DIKES (20' CREST)	LIN. FT.	4,967	4,967
4b	SECONDARY CONTAINMENT DIKES (10' CREST)	LIN. FT.	11,800	11,800
5	CREEK & POND EXCAVATION	CU. YDS.	46,267	46,267
6	SETTLEMENT PLATES	EA.	8	8
11	TIMBER DOCK REMOVAL (CHANGE ORDER NO. 1)	LUMP	0	1

ADDITIVE ALTERNATE BID

ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS-BUILT QUANTITY
7	PRE & POST CONSTRUCTION SURVEYS	LUMP	1	1
8	HYDRAULIC DREDGING (IN PLACE)(DUNE FILL)	CU. YDS.	225,000	236,784
9	SAND FENCING	LIN. FT.	13,000	13,000
10	SEEDING	ACRE	95	95

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

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COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR

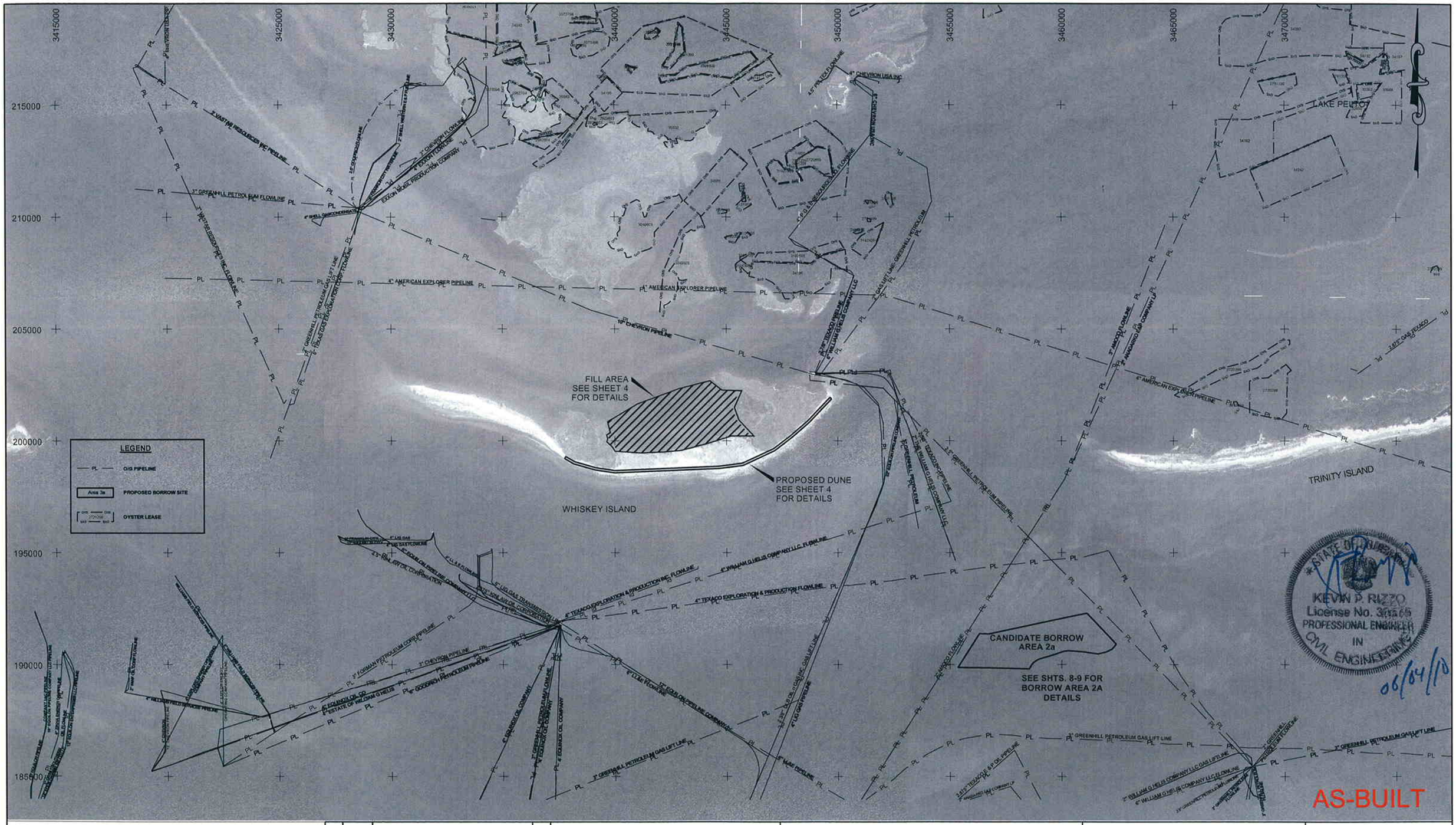
WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

SUMMARY OF ESTIMATED QUANTITIES & NOTES

DATE: SEPTEMBER 2008

051178Q01



4000 2000 0' 4000 8000

NOTES:
1) 2005 DOQQ AERIAL PHOTOGRAPHY
2) COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET
3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNERS OF ALL OIL & GAS FACILITIES IN THE PROJECT AREA FOR ACCESS ROUTES, PIPE LAYING, OR CROSSING IN ADVANCE OF PERFORMING ANY WORK

051176P01

REV	DATE	DESCRIPTION	BY

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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

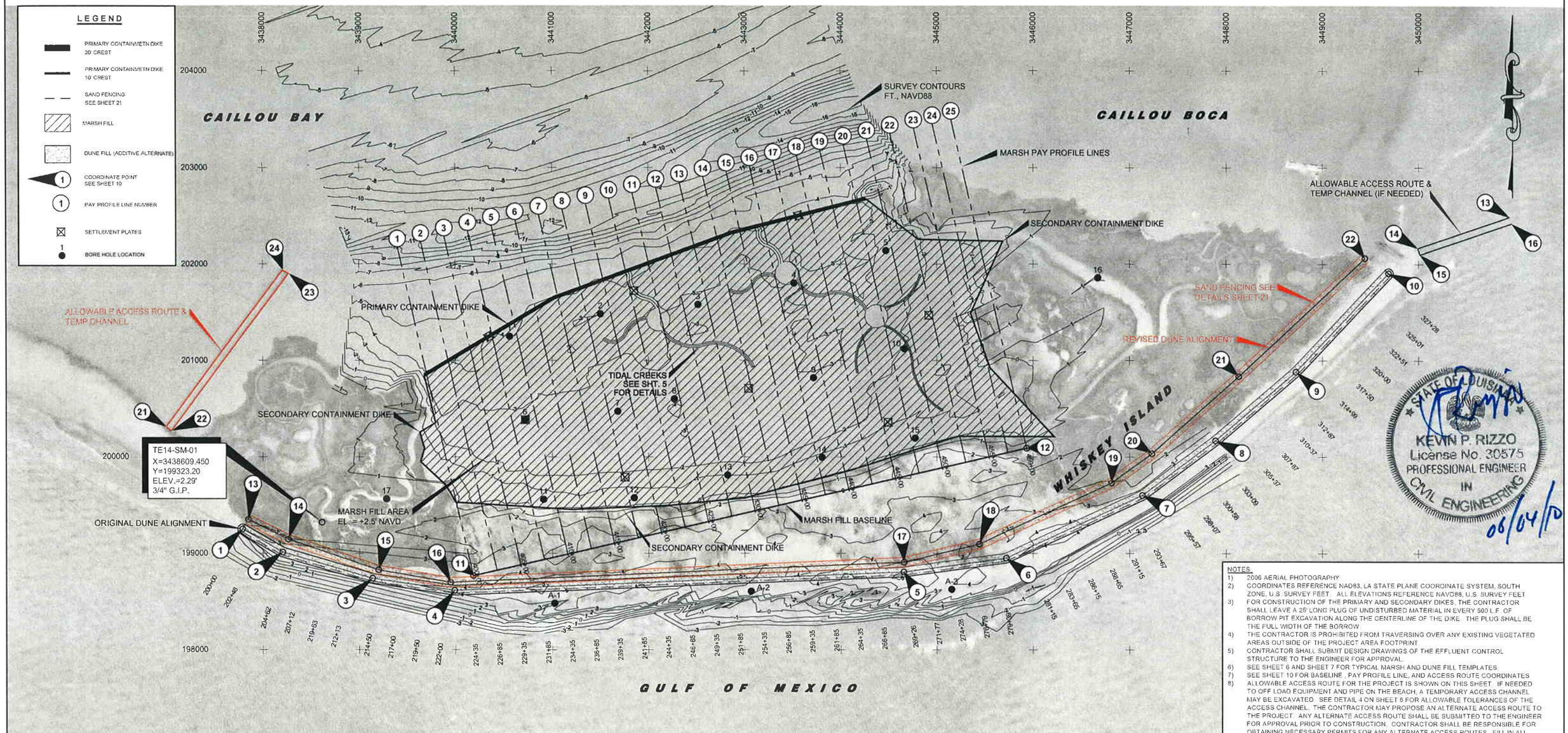
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

LOCATION MAP

DATE: SEPTEMBER 2008

SHEET 3 OF 22



NOTES:

1) 2006 AERIAL PHOTOGRAPHY
2) COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET.
3) FOR CONSTRUCTION OF THE PRIMARY AND SECONDARY DIKES, THE CONTRACTOR SHALL LEAVE A 25' LONG PLUG OF UNDISTURBED MATERIAL IN EVERY 500 L.F. OF BORROW PIT EXCAVATION ALONG THE CENTERLINE OF THE DIKE. THE PLUG SHALL BE THE FULL WIDTH OF THE BORROW.
4) THE CONTRACTOR IS PROHIBITED FROM TRAVERSING OVER ANY EXISTING VEGETATED AREAS OUTSIDE OF THE PROJECT AREA FOOTPRINT.
5) CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS OF THE EFFLUENT CONTROL STRUCTURE TO THE ENGINEER FOR APPROVAL.
6) SEE SHEET 6 AND SHEET 7 FOR TYPICAL MARSH AND DUNE FILL TEMPLATES.
7) SEE SHEET 10 FOR BASELINE , PAY PROFILE LINE, AND ACCESS ROUTE COORDINATES
8) ALLOWABLE ACCESS ROUTE FOR THE PROJECT IS SHOWN ON THIS SHEET. IF NEEDED TO OFF LOAD EQUIPMENT AND PIPE ON THE BEACH, A TEMPORARY ACCESS CHANNEL MAY BE EXCAVATED. SEE DETAIL 4 ON SHEET 6 FOR ALLOWABLE TOLERANCES OF THE ACCESS CHANNEL. THE CONTRACTOR MAY PROPOSE AN ALTERNATE ACCESS ROUTE TO THE PROJECT. ANY ALTERNATE ACCESS ROUTE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR ANY ALTERNATE ACCESS ROUTES. FILL IN ALL ACCESS CHANNELS PRIOR TO DEMOBILIZATION.
9) REFER TO GEOTECHNICAL BORING LOGS INCLUDED IN SPECIFICATIONS FOR GEOTECHNICAL INFORMATION.
10) CONTRACTOR SHALL SUBMIT PROPOSED ACCESS CORRIDORS FOR DISCHARGE PIPES TO THE ENGINEER FOR APPROVAL.
11) REFER TO SECTION TS-10 OF THE TECHNICAL SPECIFICATIONS FOR LOCATIONS OF GRADE STAKES REQUIRED IN THE MARSH FILL AREA.

AS-BUILT

1000 500 0' 1000 2000

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

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617 NORTH 3RD STREET
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DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-03-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

PROJECT LAYOUT

DATE: SEPTEMBER 2008
SHEET 4 OF 22

090105P02.dwg

CAILLOU BAY

WHISKEY ISLAND

SURVEY CONTOURS FT., NAVD88

BREACH DIKE AT CREEK LOCATION TO MARSH PLATFORM ELEVATION

BREACH DIKE AT CREEK LOCATION TO MARSH PLATFORM ELEVATION

BREACH DIKE AT CREEK LOCATION TO MARSH PLATFORM ELEVATION

20' CREST CONTAINMENT DIKE

10' CREST CONTAINMENT DIKE

10' CREST CONTAINMENT DIKE

10' CREST CONTAINMENT DIKE

TIDAL CREEK SEC. 3 50' BOTTOM (TYP.)

TIDAL POND 240' DIA. (TYP.)

TIDAL CREEK SEC. 2 30' BOTTOM (TYP.)

TIDAL CREEK SEC. 1 20' BOTTOM (TYP.)

MARSH FILL BASELINE

3441000 3442000 3443000 3444000 3445000 3446000

203000 202000 201000 200000 199000

410+00 415+00 420+00 425+00 430+00 435+00 440+00 445+00 450+00 455+00 459+00

LEGEND

- PRIMARY CONTAINMETN DIKE 20' CREST
- PRIMARY CONTAINMETN DIKE 10' CREST
- MARSH FILL
- COORDINATE POINT SEE SHEET 10
- SETTLEMENT PLATES

NOTES:

1) 2006 AERIAL PHOTOGRAPHY
2) COORDINATES REFERENCE NAD83, LA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET. ALL ELEVATIONS REFERENCE NAVD88, U.S. SURVEY FEET
3) DIKES TO BE DEGRADED PRIOR TO DEMOBILIZATION. SEE GENERAL NOTE 10 ON SHEET 2 AND THE SPECIFICATIONS FOR DETAILS.
4) SEE SHEET 6 AND SHEET 7 FOR TYPICAL MARSH AND DUNE FILL TEMPLATES.
5) SEE SHEET 10 FOR PRIMARY AND SECONDARY DIKE, CREEK/POND, AND SETTLEMENT PLATE COORDINATES.
6) SEE SHEET 22 FOR SETTLEMENT PLATE CONSTRUCTION DETAILS

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

06/04/10

AS-BUILT

500 250 0' 500 1000

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

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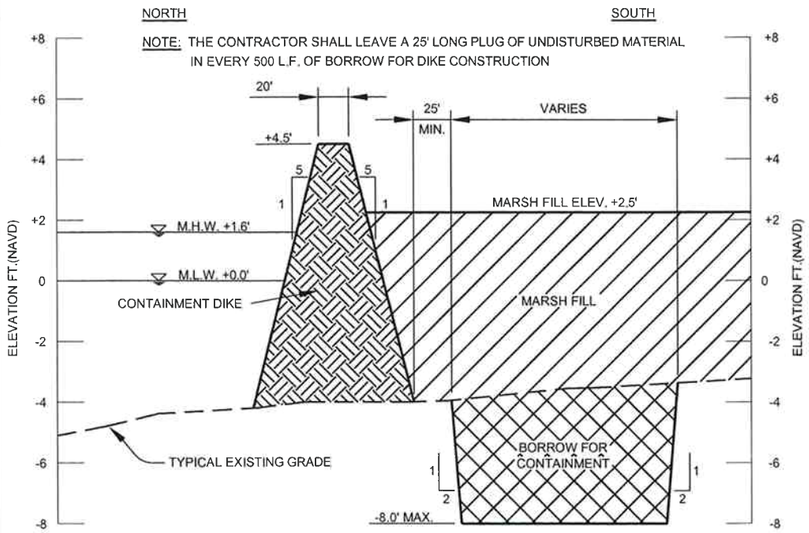
APPROVED BY: KPR

PLAN VIEW
TIDAL CREEKS & PONDS

DATE: SEPTEMBER 2008

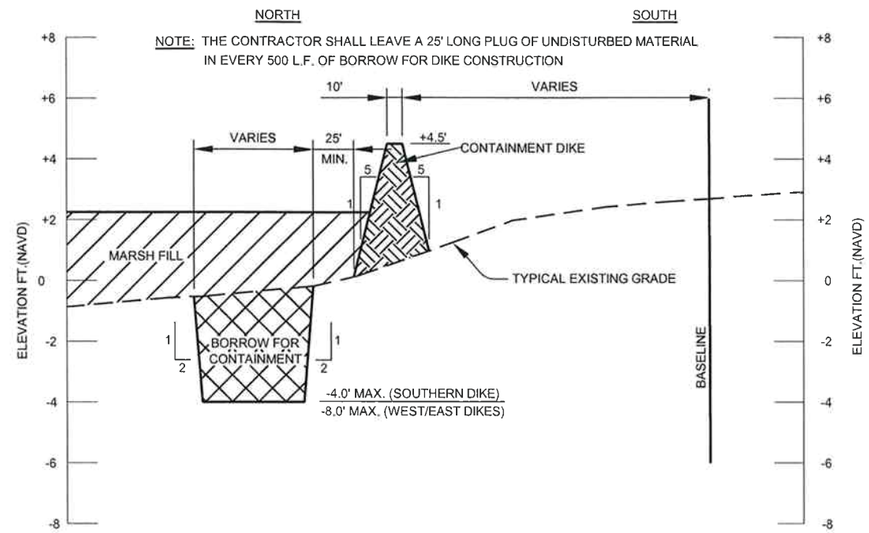
SHEET 5 OF 22

051176P03



TYPICAL PRIMARY CONTAINMENT DIKE SECTION (1/6)

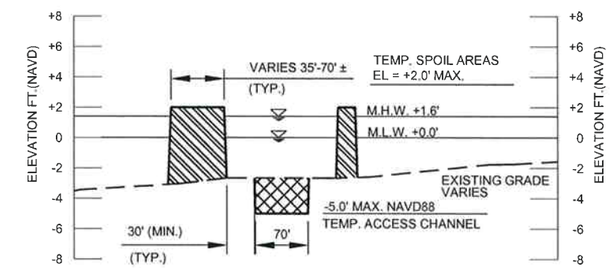
SCALE: HORIZ 1"=100'
VERT 1"=5'



TYPICAL SECONDARY CONTAINMENT DIKE SECTION (2/6)

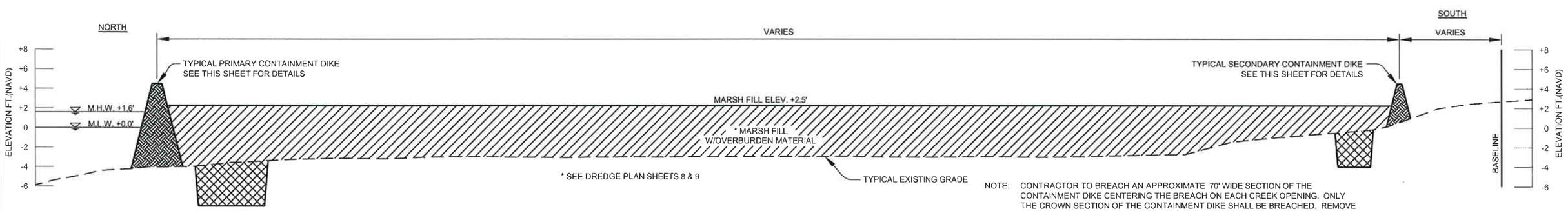
SCALE: HORIZ 1"=100'
VERT 1"=5'

NOTE: TEMPORARY SPOIL FOR ACCESS CHANNELS SHALL BE BACKFILLED INTO THE FLOTATION CHANNEL PRIOR TO DEMOBILIZATION



PRIMARY ACCESS CHANNEL (4/6)

SCALE: HORIZ 1"=200'
VERT 1"=10'



NOTE: CONTRACTOR TO BREACH AN APPROXIMATE 70' WIDE SECTION OF THE CONTAINMENT DIKE CENTERING THE BREACH ON EACH CREEK OPENING. ONLY THE CROWN SECTION OF THE CONTAINMENT DIKE SHALL BE BREACHED. REMOVE MATERIAL FROM THE CROWN OF THE DIKE TO ELEVATION OF +1.0 NAVD. PLACE THE REMOVED MATERIAL WITHIN THE MARSH PLATFORM TEMPLATE AND SPREAD OUTSIDE OF THE FOOTPRINT OF THE CREEK EXCAVATION TO FORM A SMOOTH TRANSITION BETWEEN THE DIKE AND THE MARSH FILL.

TYPICAL MARSH FILL SECTION (3/6)

SCALE: HORIZ 1"=200'
VERT 1"=10'

AS-BUILT

STATE OF LOUISIANA
KEVIN P. RIZZO
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

REV	DATE	DESCRIPTION	BY

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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
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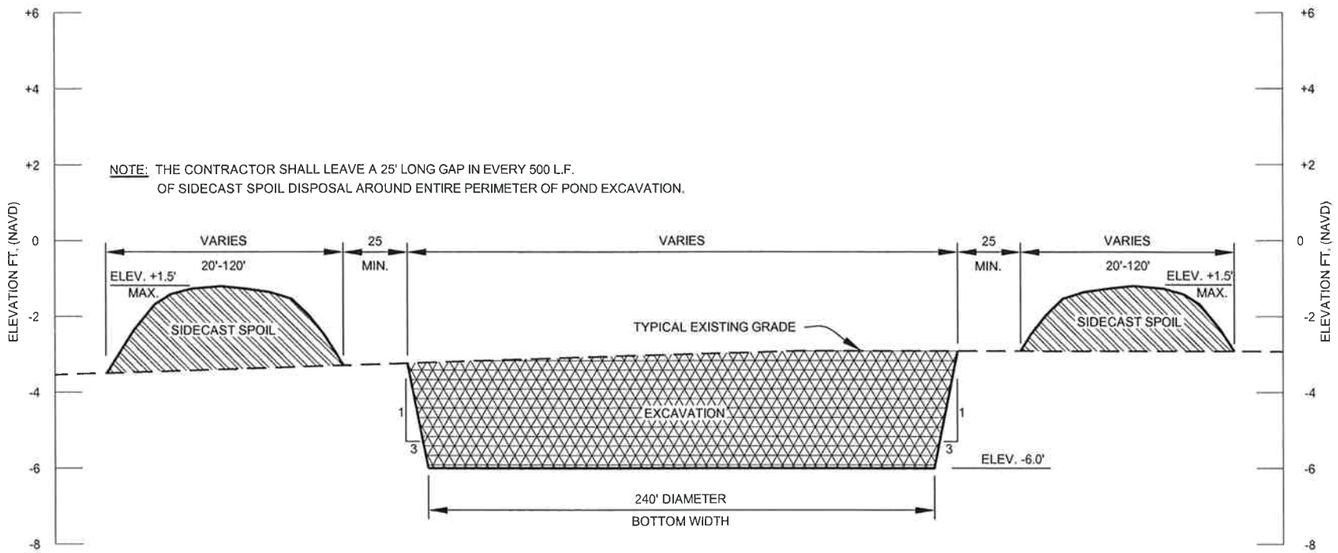
APPROVED BY: KPR

TYPICAL CROSS SECTIONS
SHEET 1 OF 2

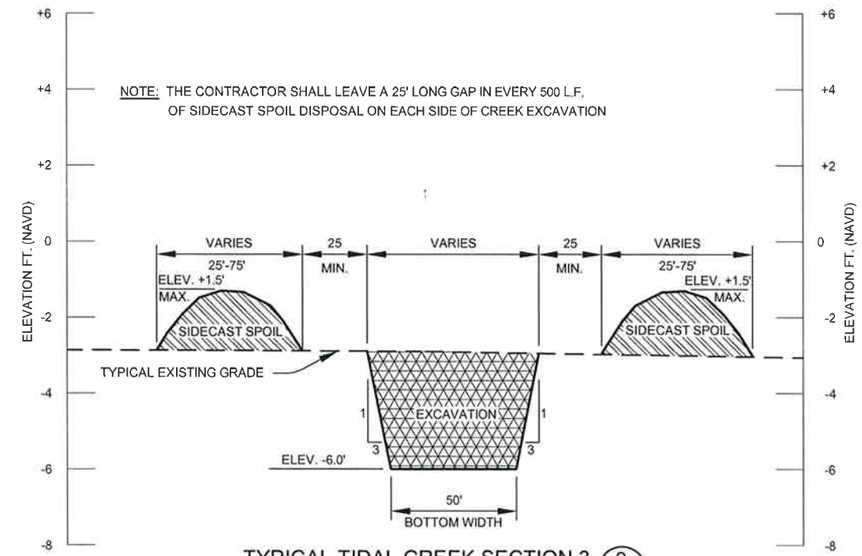
DATE: SEPTEMBER 2008
SHEET 6 OF 22

051176Y01



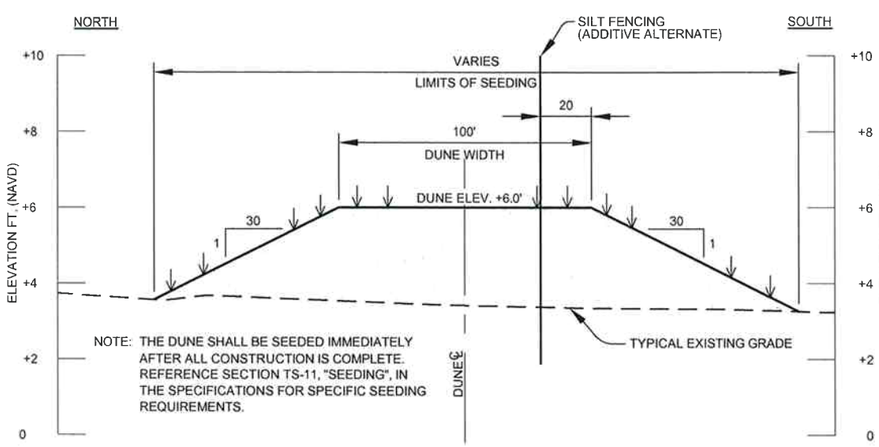
TYPICAL TIDAL POND SECTION (4/7)

SCALE: HORIZ 1"=30'
VERT 1"=2'



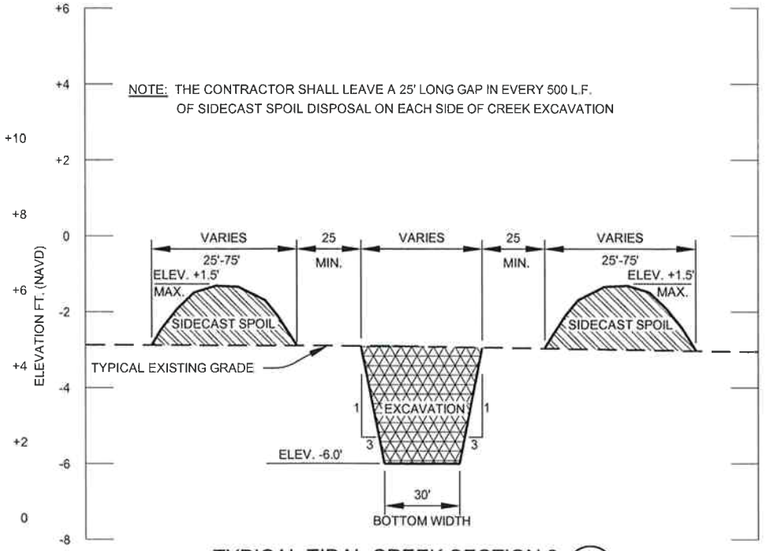
TYPICAL TIDAL CREEK SECTION 3 (3/7)

SCALE: HORIZ 1"=30'
VERT 1"=2'



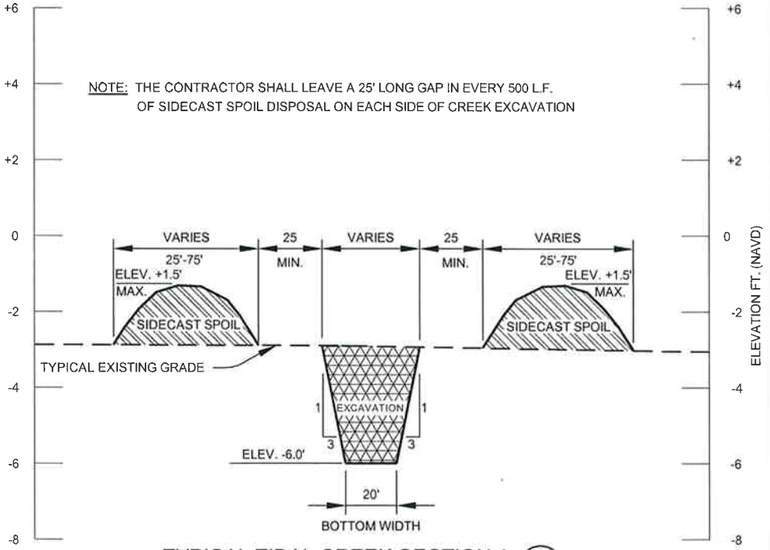
TYPICAL DUNE SECTION (ADDITIVE ALTERNATE) (5/7)

SCALE: HORIZ 1"=30'
VERT 1"=2'



TYPICAL TIDAL CREEK SECTION 2 (2/7)

SCALE: HORIZ 1"=30'
VERT 1"=2'



TYPICAL TIDAL CREEK SECTION 1 (1/7)

SCALE: HORIZ 1"=30'
VERT 1"=2'

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KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

051176V02

REV	DATE	DESCRIPTION	BY

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

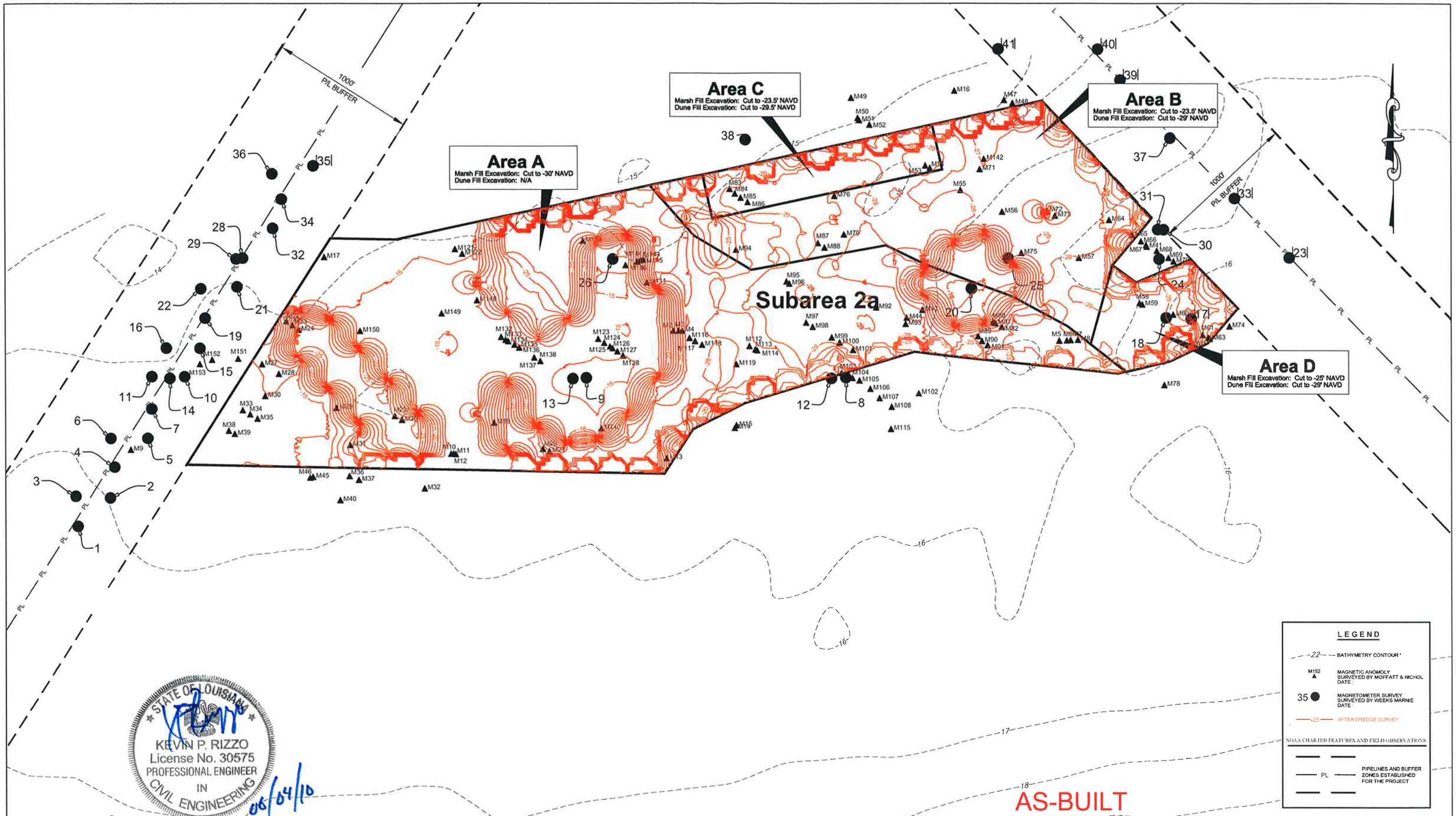
DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

TYPICAL CROSS SECTIONS
SHEET 2 OF 2

DATE: SEPTEMBER 2008
SHEET 7 OF 22



STATE OF LOUISIANA
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08/04/10

600 300 0' 600 1200

051176P04

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1	2-2-10	AS-BUILT	KMB

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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
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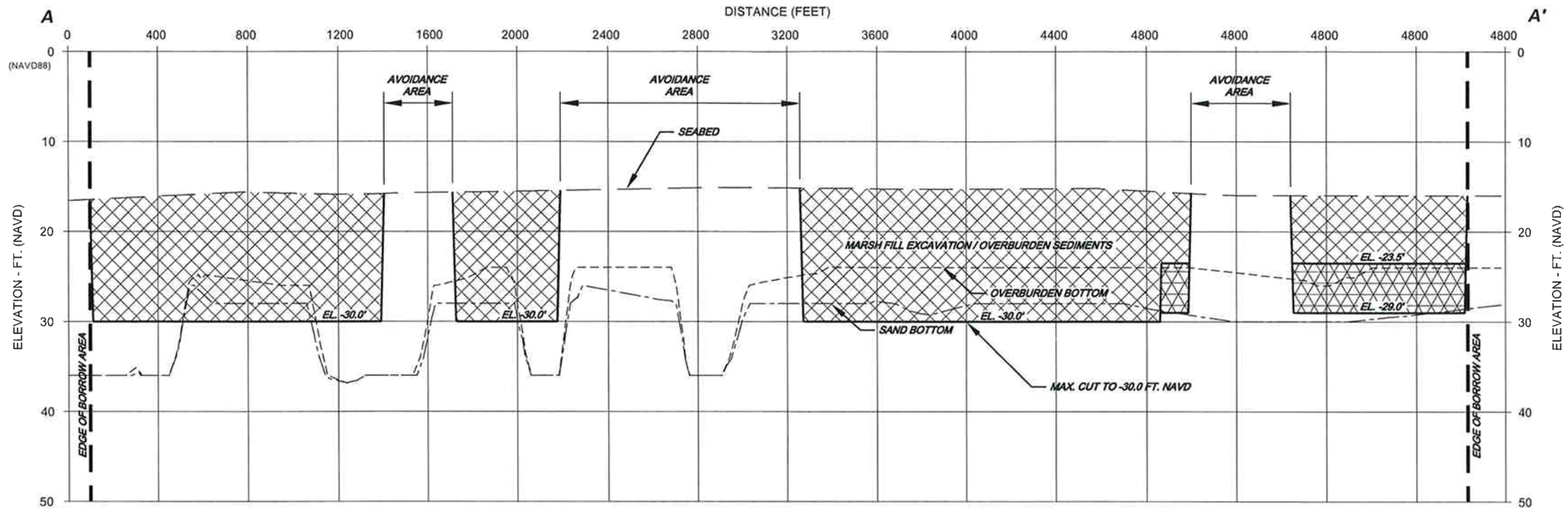
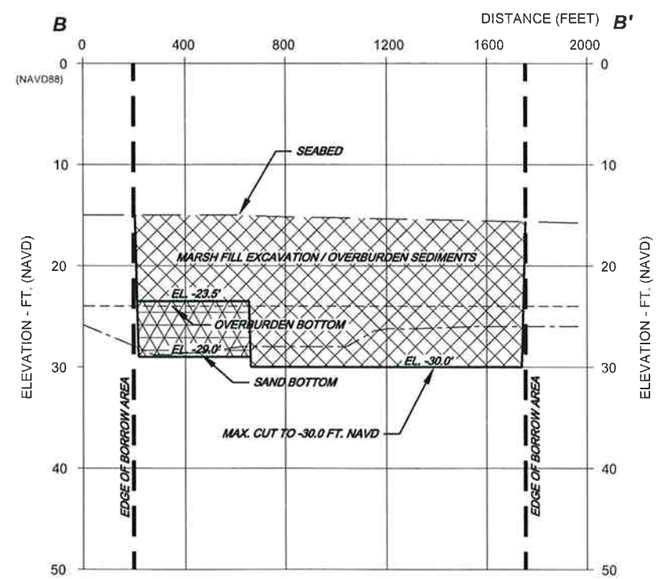
DREDGE PLAN
SUBAREA 2a

DATE: SEPTEMBER 2008
SHEET 8 OF 22



SECTION A-A'

SCALE: HORIZ 1"=300'
VERT 1"=10'



SECTION B-B'

SCALE: HORIZ 1"=300'
VERT 1"=10'

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REV	DATE	DESCRIPTION	BY

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WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

DREDGE PLAN-SUBAREA 2a CROSS SECTIONS

DATE: SEPTEMBER 2008

SHEET 9 OF 22

051176X12

MARSH FILL BASELINE COORDINATES (NAD83)

POINT #	X	Y	STATION	BEARING TO NEXT PT.
11	3440183.304	198768.710	400+00.00	N 77°02'43" E
12	3445933.135	200091.377	459+00.00	N/A

MARSH PAY PROFILE LINE COORDINATES (NAD83)

PROFILE #	X AT BASELINE	Y AT BASELINE	STATION	BEARING
1	3440183.30	198768.70	400+00	N 12°57'17" W
2	3440426.94	198824.75	402+50	N 12°57'17" W
3	3440670.57	198880.80	405+00	N 12°57'17" W
4	3440914.21	198936.84	407+50	N 12°57'17" W
5	3441157.85	198992.89	410+00	N 12°57'17" W
6	3441401.48	199048.93	412+50	N 12°57'17" W
7	3441645.12	199104.98	415+00	N 12°57'17" W
8	3441888.76	199161.02	417+50	N 12°57'17" W
9	3442132.39	199217.07	420+00	N 12°57'17" W
10	3442376.03	199273.11	422+50	N 12°57'17" W
11	3442619.67	199329.16	425+00	N 12°57'17" W
12	3442863.30	199385.20	427+50	N 12°57'17" W
13	3443106.94	199441.25	430+00	N 12°57'17" W
14	3443350.58	199497.29	432+50	N 12°57'17" W
15	3443594.22	199553.34	435+00	N 12°57'17" W
16	3443837.85	199609.38	437+50	N 12°57'17" W
17	3444081.49	199665.43	440+00	N 12°57'17" W
18	3444325.13	199721.47	442+50	N 12°57'17" W
19	3444568.76	199777.52	445+00	N 12°57'17" W
20	3444812.40	199833.56	447+50	N 12°57'17" W
21	3445056.04	199889.61	450+00	N 12°57'17" W
22	3445299.67	199945.65	452+50	N 12°57'17" W
23	3445543.31	200001.70	455+00	N 12°57'17" W
24	3445738.22	200046.54	457+50	N 12°57'17" W
25	3445933.13	200091.37	459+00	N 12°57'17" W

CONTAINMENT DIKE POINTS (NAD83)

POINT #	X	Y
1	3439677.136	200848.959
2	3441019.939	201651.320
3	3442859.651	202324.095
4	3444258.786	202681.321
5	3444806.532	202258.604
6	3445686.168	202239.227
7	3445351.028	201490.532
8	3445552.662	200928.272
9	3446219.076	200210.496
10	3445219.373	200216.644
11	3444182.915	199888.519
12	3443005.831	199576.019
13	3442224.581	199497.894
14	3441193.331	199456.227
15	3440006.737	199530.005
16	3439897.495	199712.012
17	3439680.343	200089.778
18	3439631.525	200256.506
19	3439795.486	200355.204

BORROW AREA 2a UNIDENTIFIED MAGNETIC ANOMALY TABLE

REF NO.	AMP.	CAT.	X	Y	REMARKS
1	17	mc	3458325	190776	Unknown
2	20	m	3458622	190762	Unknown, possible noise
3	29	m	3458658	190762	Unknown, possible noise
4	8	m	3458681	190762	Unknown, possible noise
5	25	m	3461211	190696	Unknown, possible noise
6	22	m	3461261	190698	Unknown, possible noise
7	30	m	3461286	190700	Unknown, possible noise
8	14	mc	3461335	190702	Unknown, possible noise
9	1730	m	3454980	189966	Pipeline, TGP Co. 26-in Gas (Seg. 3562)
10	8	m	3457132	189938	Unknown, possible noise
11	5	m	3457149	189939	Unknown, possible noise
12	11	mc	3457163	189936	Unknown, short duration
13	5	m	3458576	189908	Unknown, short duration
14	6	m	3459031	190111	Unknown, short duration
15	8	m	3459042	190129	Unknown, short duration
16	6	m	3460515	192369	Unknown, start of line
17	47	mc	3456283	191257	Unknown, possible pipeline lobe or debris
18	213	d	3457036	190376	Unknown
19	49	dc	3457419	190146	Unknown, short duration
20	18	m	3457743	189971	Unknown, short duration
21	14	m	3457787	189955	Unknown, short duration
22	13	m	3456029	190827	Unknown, short duration
23	24	m	3456070	190800	Unknown, short duration
24	20	m	3456111	190770	Unknown, short duration
25	29	m	3456750	190192	Unknown, short duration
26	20	m	3456798	190166	Unknown, short duration
27	21	mc	3455865	190539	Unknown, short duration
28	27	m	3455978	190474	Unknown, short duration
29	7	m	3456362	190247	Unknown, short duration
30	6	m	3455885	190326	Unknown, short duration
31	7	m	3456451	189998	Unknown, short duration
32	11	dc	3456951	189706	Unknown
33	16	m	3455734	190231	Unknown, possible noise
34	29	mc	3455784	190203	Unknown, possible noise
35	25	m	3455833	190174	Unknown, possible noise
36	7	d	3456446	189790	Unknown, short duration
37	5	mc	3456508	189764	Unknown, short duration
38	22	mc	3455640	190093	Unknown, possible noise
39	21	m	3455680	190072	Unknown, possible noise
40	8	dc	3456385	189628	Unknown
41	22	m	3461801	191326	Unknown, oil & gas debris (Same as 41/67).
42	6	m	3460575	190994	Unknown, Cluster 5
43	9	mc	3460296	190902	Unknown, short duration
44	8	m	3460191	190850	Unknown, possible noise
45	7	m	3456205	189784	Unknown, possible noise
46	5	dc	3456186	189779	Unknown, short duration
47	19	mc	3460848	192307	Unknown, short duration
48	10	mc	3460904	192287	Unknown, short duration
49	7	m	3459821	192322	Unknown, possible noise
50	8	m	3459865	192187	Unknown, possible noise
51	9	m	3459874	192173	Unknown, possible noise
52	6	m	3459943	192142	Unknown, possible noise
53	8	m	3460318	191868	Unknown, possible noise
54	5	dc	3460349	191852	Unknown, possible noise
55	5	m	3460555	191705	Unknown, possible noise
56	5	m	3460833	191559	Unknown, possible noise
57	7	dc	3461342	191251	Unknown, possible noise
58	5	m	3461751	190948	Unknown, possible noise
59	5	m	3461770	190939	Unknown, possible noise
60	363	m	3461979	190871	Unknown, oil & gas debris
61	6	m	3462175	190734	Unknown, possible noise
62	6	m	3462213	190716	Unknown, possible noise
63	7	m	3462222	190709	Unknown, possible noise
64	33	m	3461546	191505	Unknown, short duration
65	13	m	3461701	191404	Unknown, short duration
66	12	m	3461762	191362	Unknown, short duration
67	89	mc	3461796	191337	Unknown, oil & gas debris (Same as 41/67)
68	5	m	3461869	191298	Unknown, short duration
69	12	m	3461948	191251	Unknown, short duration
70	16	m	3461982	191227	Unknown, short duration
71	6	m	3460685	191844	Unknown, possible noise
72	21	m	3461129	191567	Unknown, possible noise
73	22	m	3461184	191533	Unknown, possible noise
74	110	mc	3462354	190792	Unknown, oil & gas debris
75	19	mc	3460961	191284	Unknown, short duration
76	27	m	3459708	191665	Unknown, short duration
77	8	m	3460605	191106	Unknown, Cluster 5
78	7	dc	3461919	190399	Unknown
79	31	m	3459771	191407	Unknown, possible noise
80	5	d	3460771	190822	Unknown, short duration
81	5	m	3460786	190813	Unknown, possible noise
82	24	mc	3460830	190788	Unknown, possible noise
83	8	m	3459000	191712	Unknown, possible noise
84	21	m	3459035	191681	Unknown, possible noise
85	23	m	3459074	191653	Unknown, possible noise
86	19	mc	3459121	191624	Unknown, possible noise
87	24	mc	3459598	191349	Unknown, possible noise
88	31	m	3459642	191319	Unknown, possible noise
89	5	m	3460672	190726	Unknown, possible noise
90	23	mc	3460698	190694	Unknown, possible noise
91	18	mc	3460736	190666	Unknown, possible noise
92	30	m	3459985	190918	Unknown, short duration
93	30	m	3460184	190808	Unknown, short duration
94	16	m	3459042	191305	Unknown, short duration
95	15	m	3459383	191092	Unknown, short duration
96	22	m	3459402	191078	Unknown, short duration
97	16	mc	3459516	190816	Unknown, short duration
98	22	mc	3459561	190788	Unknown, short duration
99	20	m	3459689	190717	Unknown, short duration
100	22	m	3459741	190683	Unknown, short duration
101	10	m	3459830	190633	Unknown, short duration
102	8	dc	3460271	190343	Unknown
103	12	m	3459754	190479	Unknown, possible noise
104	5	m	3459826	190446	Unknown, possible noise
105	6	m	3459873	190429	Unknown, possible noise
106	5	mc	3459945	190373	Unknown, possible noise
107	8	mc	3460007	190311	Unknown, possible noise
108	7	mc	3460089	190253	Unknown, possible noise
109	30	m	3458015	191365	Unknown, short duration
110	42	m	3458259	191213	Unknown, Same as 110/147
111	26	m	3458447	191086	Unknown, short duration
112	30	mc	3459131	190659	Unknown, Cluster 1 (short duration)
113	6	m	3459171	190637	Unknown, Cluster 1 (short duration)
114	24	m	3459183	190631	Unknown, Cluster 1 (short duration)
115	6	m	3460084	190104	Unknown, short duration
116	24	mc	3458730	190713	Unknown, possible noise
117	21	m	3458767	190692	Unknown, possible noise
118	18	mc	3458813	190668	Unknown, possible noise
119	14	m	3459042	190538	Unknown, possible noise
120	25	dc	3458337	190768	Unknown
121	32	m	3457161	191309	Unknown, possible noise
122	19	mc	3457210	191278	Unknown, possible noise
123	19	mc	3458117	190708	Unknown, possible noise
124	25	mc	3458158	190681	Unknown, possible noise
125	11	m	3458197	190657	Unknown, possible noise
126	30	m	3458215	190645	Unknown, possible noise
127	32	m	3458247	190624	Unknown, possible noise
128	11	m	3458285	190596	Unknown, possible noise
129	56	m	3458038	190552	Unknown, Cluster 4
130	69	mc	3458111	190510	Unknown, Cluster 4
131	19	m	3458140	190493	Unknown, Cluster 4
132	13	mc	3457467	190720	Unknown, possible noise (Rerun)
133	8	mc	3457496	190701	Unknown, possible noise (Rerun)
134	13	m	3457513	190692	Unknown, possible noise (Rerun)
135	15	m	3457555	190668	Unknown, possible noise (Rerun)
136	20	mc	3457586	190649	Unknown, possible noise (Rerun)
137	23	m	3457686	190583	Unknown, possible noise (Rerun)
138	17	m	3457727	190559	Unknown, short duration
139	28	mc	3457958	190423	Unknown, Same as 139/141
140	23	mc	3458136	190108	Unknown, short duration
141	25	mc	3457953	190426	Unknown, Same as 139/141
142	5	d	3460713	191913	Unknown, short duration
143	11	m	3458421	191239	Unknown, possible noise
144	6	m	3458405	191235	Unknown, possible noise
145	7	m	3458380	191225	Unknown, possible noise
146	10	m	3458304	191201	Unknown, possible noise
147	6	dc	3458286	191199	Unknown, Same as 110/147
148	18	m	3457308	190966	Unknown, short duration
149	7	m	3457069	190879	Unknown, short duration
150	5	m	3456518	190762	Unknown, short duration
151	5	m	3455704	190576	Unknown, short duration
152	6	m	3455528	190569	Unknown, short duration, related to 153
153	29	m	3455445	190540	Pipeline, TGP Co. 26-in Gas (Seg. 3562)

1) Magnetic anomaly reference numbers are preceded by the letter M on the project drawings (i.e. 241 = M241).
2) Anomaly catagories (m = monopole, d = dipole, c = complex).
3) Coordinates reference NAD83, Louisiana State Plane Coordinate System, South Zone, U.S. Survey Feet.
4) Possible noise in comment column suggests that the magnetometer anomaly detected may be related to sensing fluctuations in the magnetic background related to sea conditions and/or closeness of sensor to seabed and not related to the detection of a ferrous metal source.

DREDGE AREA 2a PERIMETER POINTS (NAD83)

POINT #	X	Y
1	3456326.097	191383.064
2	3456343.223	191369.993
3	3456747.155	191368.961
4	3461106.856	192299.849
5	3462416.555	190910.600
6	3462221.123	190691.767
7	3461971.324	190564.269
8	3461604.253	190477.904
9	3460242.418	190615.701
10	3458945.561	190222.581
11	3458748.908	190103.055
12	3458560.691	189805.449

DREDGE AREA 2a INTERIOR POINTS (NAD83)

POINT #	X	Y
39	3458466.96	191739.85
40	3458762.39	191402.18
41	3459144.06	191173.71
42	3460052.59	191338.21
43	3460314.14	191211.86
44	3460898.82	190997.05
45	3461263.95	190797.68
46	3461419.96	190675.30
47	3461663.26	190492.03
48	3458818.83	191810.73
49	3458883.34	191517.76
50	3460431.54	191845.67
51	3460363.89	192146.09
52	3461832.05	191517.57
53	3461568.31	191205.24
54	3461727.94	191089.56
55	3462095.79	191242.26

DREDGE AREA 2a AVOIDANCE AREA A (NAD83)

POINT #	X	Y
13	3456827.537	190488.259
14	3457033.464	190605.488
15	3457239.391	190498.803
16	3457237.530	190257.521
17	3457044.629	190147.114
18	3456830.018	190250.078

DREDGE AREA 2a AVOIDANCE AREA B (NAD83)

POINT #	X	Y
19	3457548.444	190605.178
20	3457745.183	190809.787
21	3458021.354	190865.552
22	3458050.000	191324.891
23	3458198.708	191426.221
24	3458486.962	191409.886
25	3458496.156	191088.721
26	3458627.791	190911.321
27	3458627.791	190608.103
28	3458158.660	190018.829
29	3457848.612	190011.588
30	3457549.568	190209.451

DREDGE AREA 2a AVOIDANCE AREA C (NAD83)

POINT #	X	Y
31	3460335.115	191292.655
32	3460462.796	191411.470
33	3460750.078	191416.790
34	3460939.826	191184.481
35	3460877.759	190900.746
36	3460620.624	190767.745
37	3460416.689	190815.625
38	3460274.821	191051.480

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DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

PROJECT COORDINATE TABLES

DATE: SEPTEMBER 2008
SHEET 10 OF 22

051176D02

CREEK AND POND COORDINATES (NAD83)					
POINT #	X (BEGIN)	Y (BEGIN)	CHORD BEARING TO NEXT PT.	CHORD LENGTH	RADIUS (FEET)
20	3441782.44	201932.09	S 30°39'41" E	48.6	TANGENT
21	3441807.24	201890.25	S 35°06'30" E	295.3	208.3
22	3441977.06	201648.70	S 50°04'00" E	160.2	174.1
23	3441532.26	201225.27	N 72°00'05" E	252.2	151.2
24	3441772.08	201303.18	N 56°46'41" E	255.5	266.7
25	3443089.38	200933.85	N 63°50'08" W	544.6	453.4
26	3442600.57	201173.99	N 72°27'13" W	470.4	367.2
27	3442104.59	201425.99	N/A	N/A	120.0
28	3443125.49	202393.31	S 32°26'13" E	51.6	TANGENT
29	3443153.19	202349.74	S 30°49'06" E	172.4	115.5
30	3443241.55	202201.61	S 34°51'40" E	233.9	207.4
31	3442844.79	201728.99	N 69°50'59" E	270.5	179.9
32	3443098.77	201822.19	N 78°15'08" E	230.5	172.1
33	3443547.97	201859.12	S 63°47'17" E	365.0	232.0
34	3443875.45	201697.90	S 65°44'55" E	430.2	349.6
35	3444174.42	200873.31	N 18°20'53" E	500.0	446.8
36	3444824.89	201892.93	S 47°33'58" W	506.6	445.9
37	3445060.69	200483.88	N 34°12'25" W	560.9	625.1
38	3444745.39	200947.70	N 35°43'09" W	515.1	429.3
39	3443438.13	201907.44	N/A	N/A	120.0
40	3444371.63	201461.14	N/A	N/A	120.0
41	3444371.6	201461.1	N/A	N/A	N/A

SETTLEMENT PLATE LOCATIONS (NAD83)				
PLATE #	X	Y	Z	DATE
1	~~3440349~~	~~201250~~		
1	3440356.873	201242.009	9.148'	9-30-09
2	~~3443559~~	~~202509~~		
2	3443556.415	202498.351	11.084'	9-30-09
3	~~3441859~~	~~201723~~		
3	3441854.685	201717.463	7.245'	9-30-09
4	~~3440720~~	~~200305~~		
4	3440720.703	200382.387	7.528'	9-30-09
5	~~3443040~~	~~200710~~		
5	3443039.234	200705.982	7.392'	9-30-09
6	~~3444915~~	~~201470~~		
6	3444917.043	201471.021	8.581'	9-30-09
7	~~3441755~~	~~199790~~		
7	3441751.225	199788.030	7.827	9-30-09
8	~~3444490~~	~~200360~~		
8	3444490.000	200360.000	8.319'	9-30-09
~~9~~	~~3438706~~	~~198866~~		
~~10~~	~~3449666~~	~~200785~~		

DUNE FILL BASELINE COORDINATES (NAD83)				
POINT #	X	Y	STATION	BEARING TO NEXT PT.
~~1~~	~~3437701.726~~	~~199252.126~~	~~200+00.00~~	~~S 59°37'57" E~~
1	3437852.28	199350.98	200+00	S 63°25'38" E
~~2~~	~~3438202.665~~	~~199011.400~~	~~204+70.17~~	~~S 73°59'52" E~~
2	3438261.80	199146.15	204+58	S 71°18'46" E
~~3~~	~~3439135.822~~	~~198741.990~~	~~214+47.54~~	~~S 81°40'45" E~~
3	3439198.28	198829.40	214+46	S 80°13'12" E
~~4~~	~~3439990.172~~	~~198617.037~~	~~223+10.90~~	~~N 87°39'21" E~~
4	3439948.40	198700.10	222+08	N 87°26'36" E
~~5~~	~~3444863.380~~	~~198897.928~~	~~269+70.10~~	~~N 82°20'13" E~~
5	3444656.10	198910.30	269+20	N 76°33'37" E
~~6~~	~~3445721.453~~	~~198951.632~~	~~280+55.79~~	~~N 65°13'02" E~~
6	3445443.53	199098.47	277+30	N 65°7'44" E
~~7~~	~~3447132.613~~	~~199603.161~~	~~296+10.99~~	~~N 53°06'48" E~~
7	3446810.52	199732.17	292+36	N 54°13'5" E
~~8~~	~~3447888.645~~	~~200170.530~~	~~305+55.34~~	~~N 49°25'57" E~~
8	3447228.48	200035.10	297+63	N 48°14'4" E
~~9~~	~~3448723.156~~	~~200884.972~~	~~316+53.90~~	~~N 43°26'10" E~~
9	3448129.07	200637.26	309+59	N 47°3'2" E
~~10~~	~~3449601.026~~	~~201007.172~~	~~330+61.61~~	~~N/A~~
10	3449446.16	202063.30	327+28	N/A

ACCESS ROUTE & TEMP. CHANNEL (NAD83)		
POINT #	X	Y
13	3450937.58	202493.97
14	3449992.51	202167.09
15	3450015.40	202100.94
16	3450960.46	202427.82
17	3441750.50	201918.48
18	3441816.25	201942.53
19	3441705.32	202218.50
20	3441649.05	202195.91
21	3436995.02	200312.69
22	3437051.93	200271.11
23	3438270.53	201904.42
24	3438206.40	201938.08

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

REV.	DATE	DESCRIPTION	BY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

REVISED PROJECT COORDINATE TABLES

STATE PROJECT NUMBER: 2511-05-09

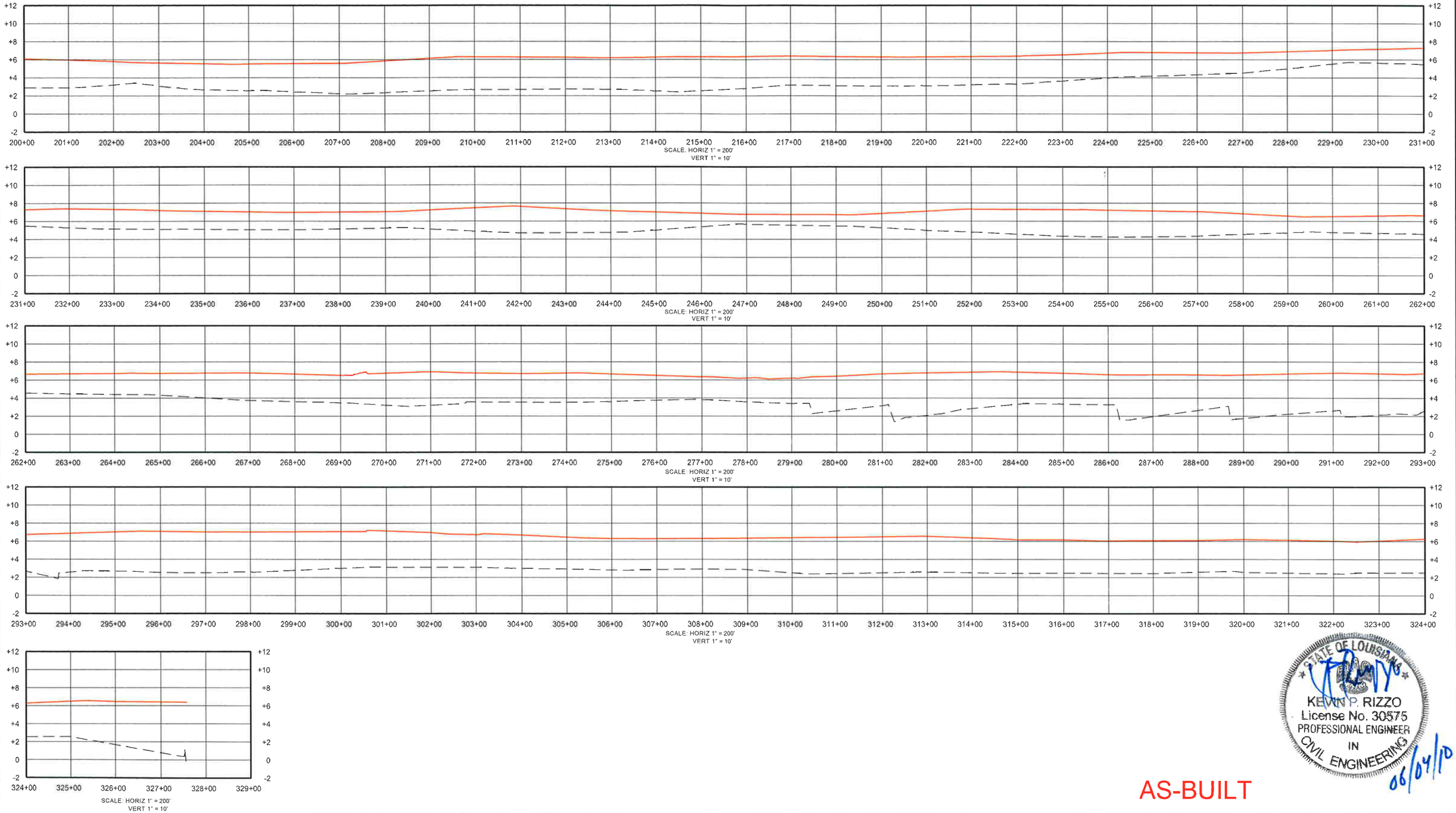
FEDERAL PROJECT NUMBER: TE-50

DATE: SEPTEMBER 2008

DRAWN BY: KSP | DESIGNED BY: KPR | APPROVED BY: KPR

SHEET 10a OF 22

051176D02



LEGEND

AS-BUILT - OCTOBER 2009 SURVEY

EXISTING PROFILE - AUGUST 2009 SURVEY

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

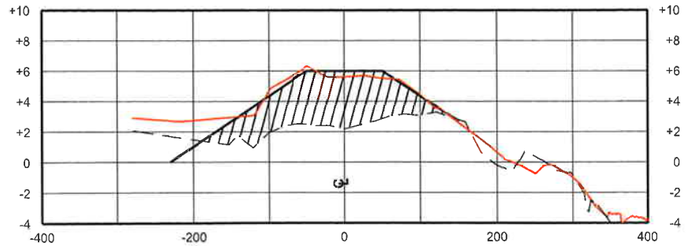
APPROVED BY: KPR

DUNE PROFILE
SHEET 1 OF 1

DATE: SEPTEMBER 2008

SHEET 10b OF 22

000105X03.dwg



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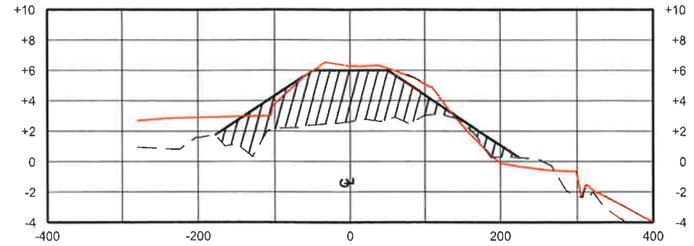

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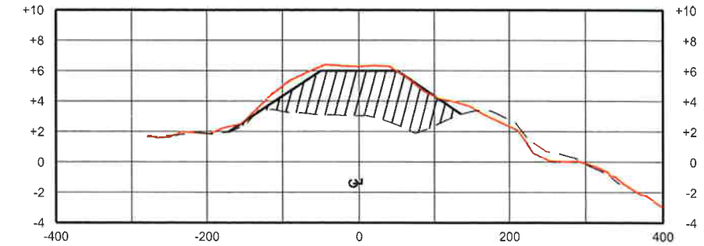

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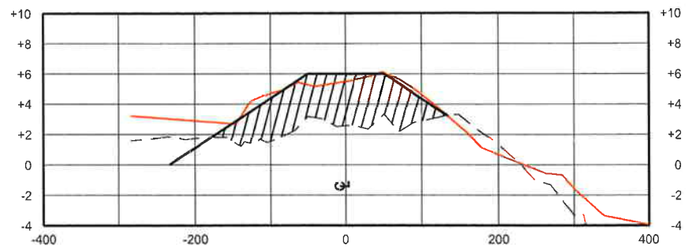

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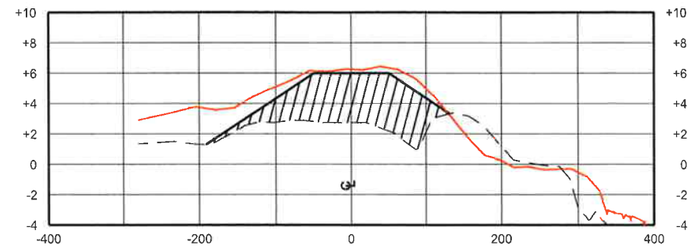

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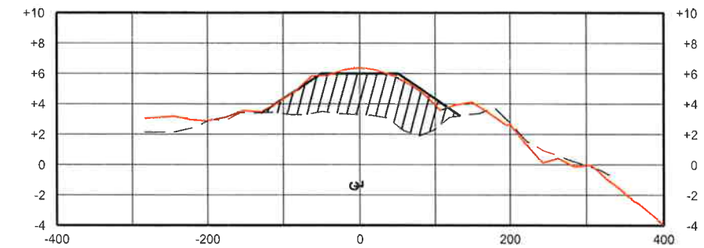

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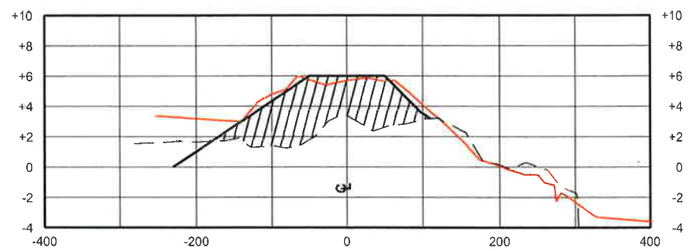

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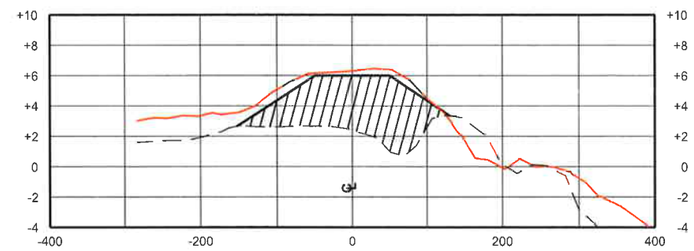

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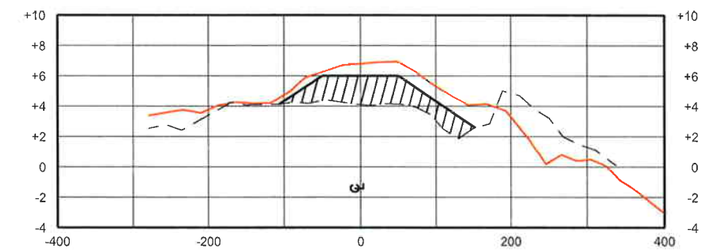

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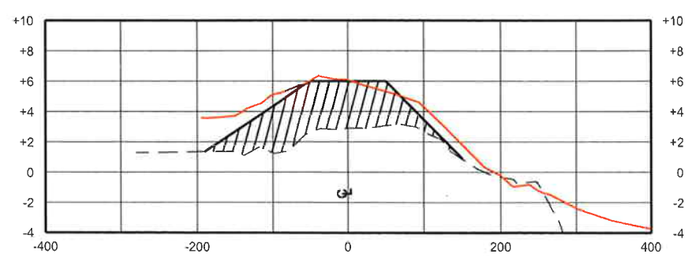

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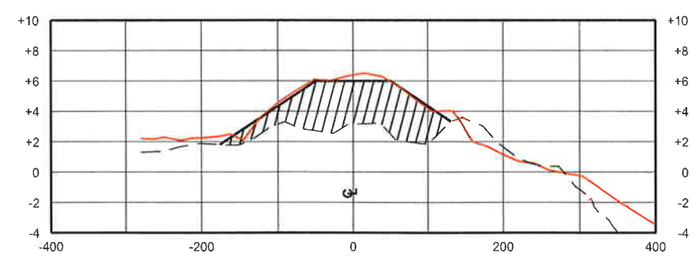

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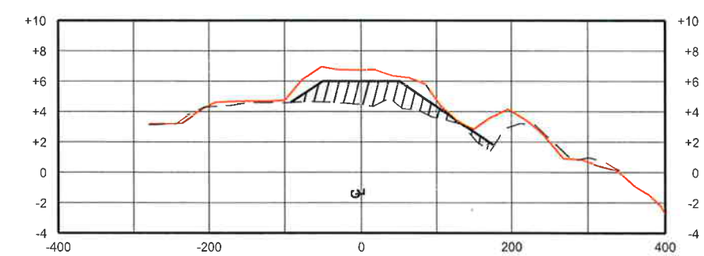

STA. 226+85
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE
2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE

AS-BUILT

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - AUGUST 2009 SURVEY
- DESIGN TEMPLATE
- DUNE FILL

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

DRAWN BY: KSP | DESIGNED BY: KPR | APPROVED BY: KPR

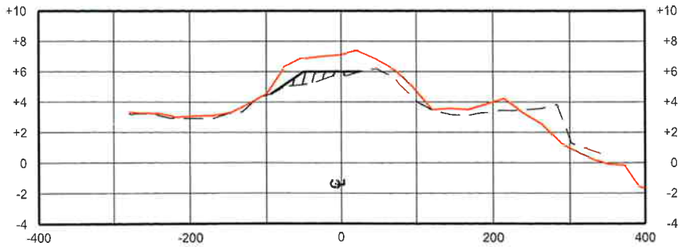
DUNE CROSS SECTIONS
SHEET 1 OF 2
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2009

SHEET 11 OF 22

STATE OF LOUISIANA
KEVIN P. RIZZO
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
06/04/10

090105X01.dwg



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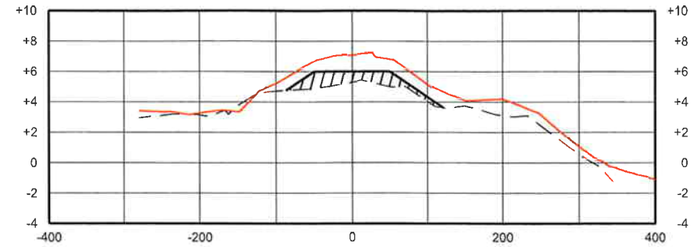

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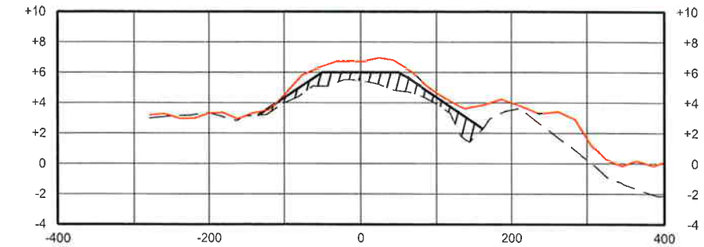

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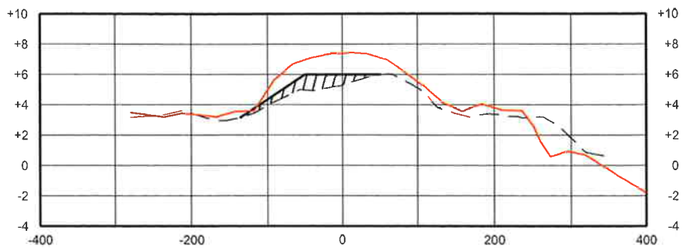

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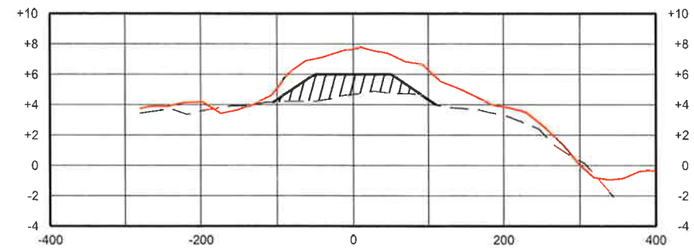

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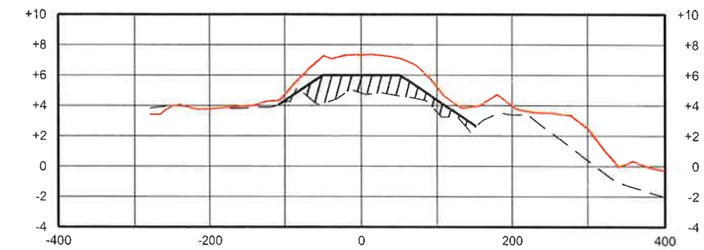

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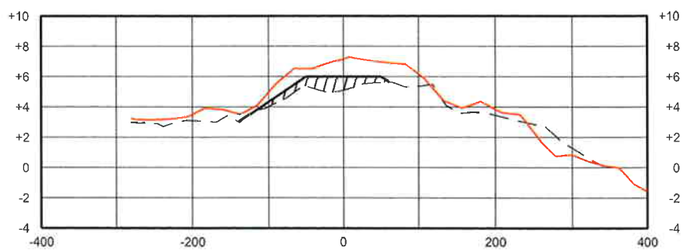

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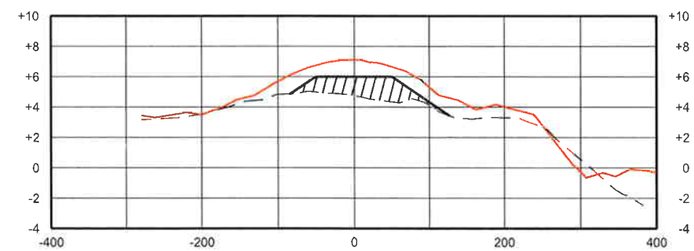

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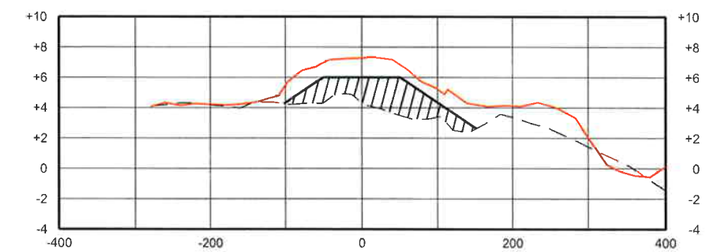

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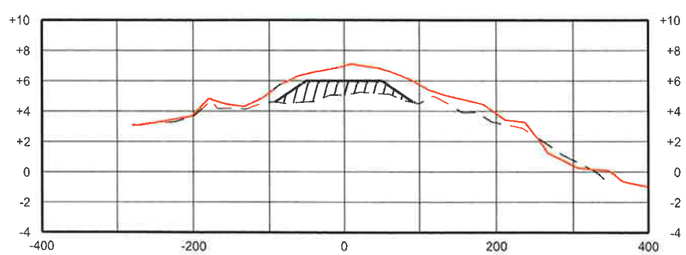

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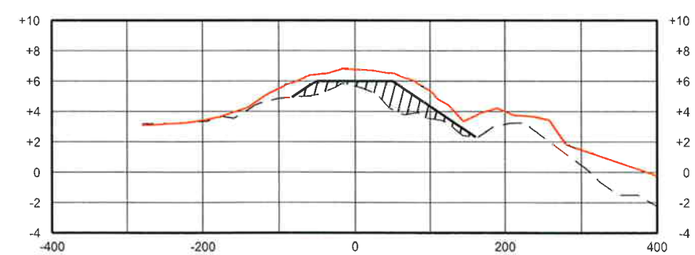

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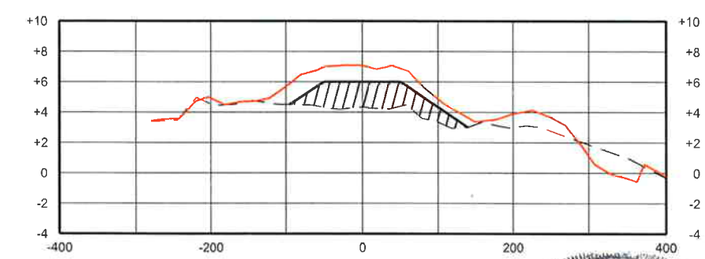

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NOTES:

1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE
2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE

AS-BUILT

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - AUGUST 2009 SURVEY
- DESIGN TEMPLATE
- DUNE FILL

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

DUNE CROSS SECTIONS
SHEET 2 OF 3
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

DRAWN BY: KSP | DESIGNED BY: KPR | APPROVED BY: KPR

SHEET 12 OF 22

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

06/04/10

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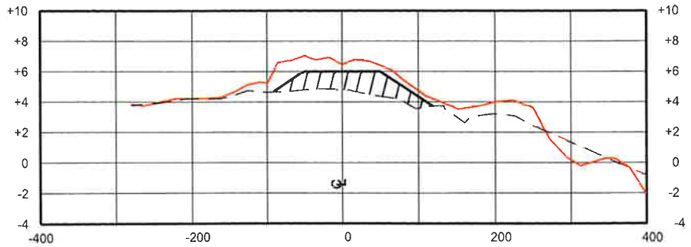

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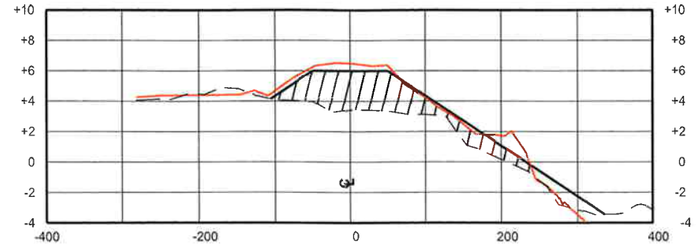

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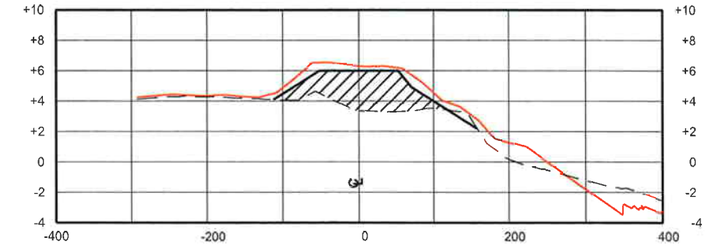

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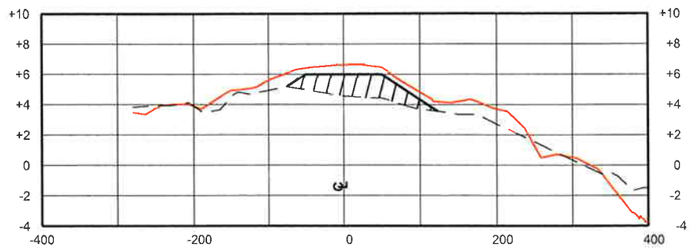

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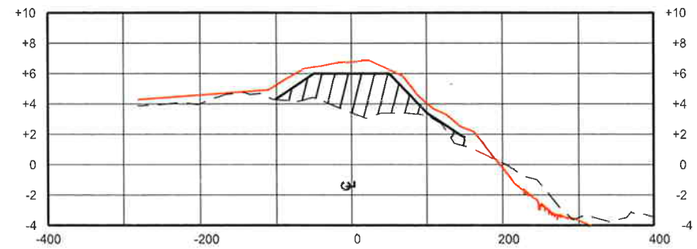

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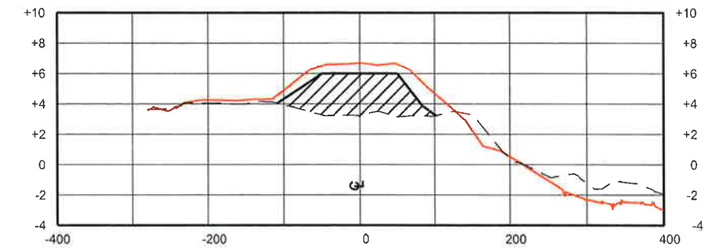

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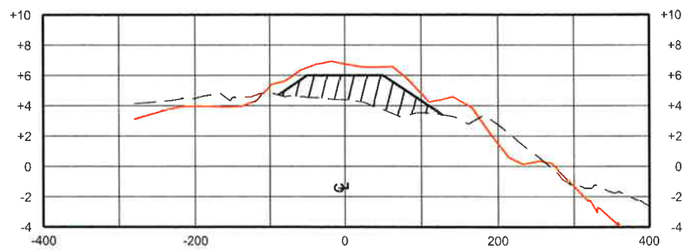

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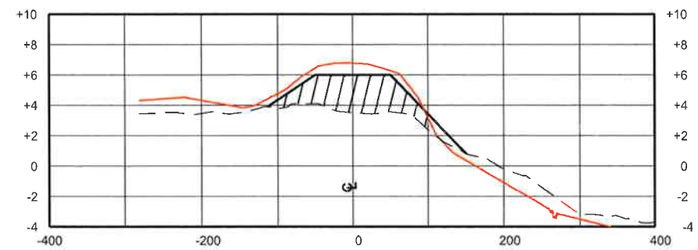

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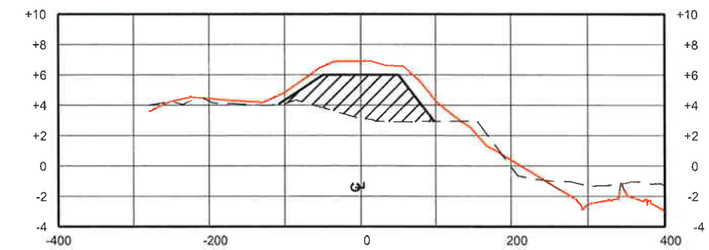

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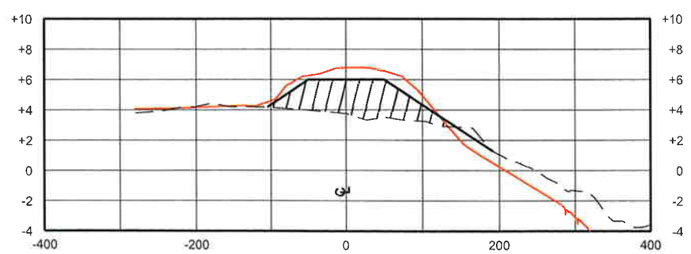

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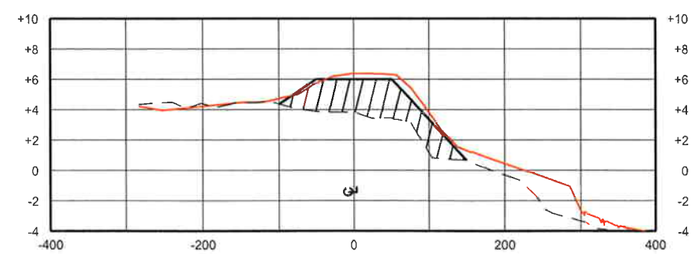
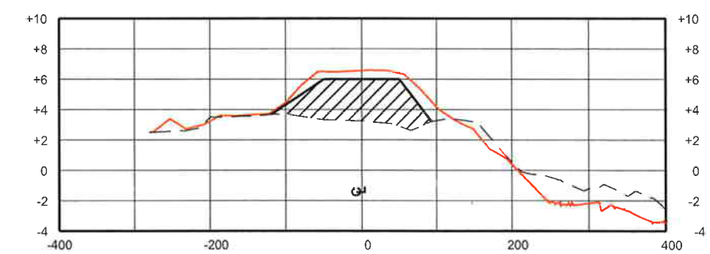


STA. 276+79
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 286+15
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE

AS-BUILT

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - AUGUST 2009 SURVEY
- DESIGN TEMPLATE
- DUNE FILL

090105X03.dwg

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

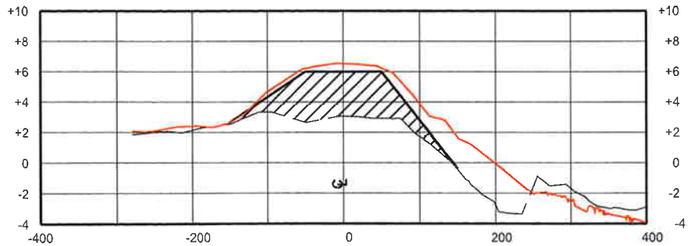
DUNE CROSS SECTIONS
SHEET A
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2009

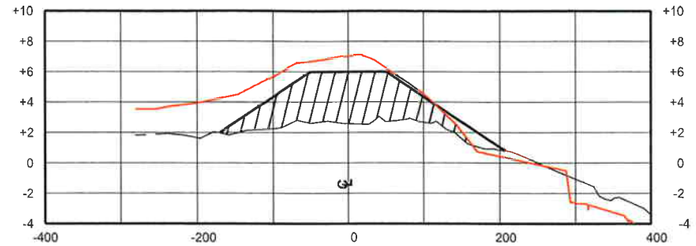
SHEET 13 OF 22

STATE OF LOUISIANA
KEVIN P. RIZZO
LICENSE NO. 29576
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

06/04/10



STA. 288+65
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 298+07
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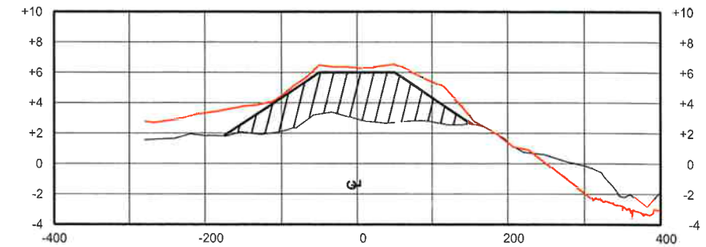
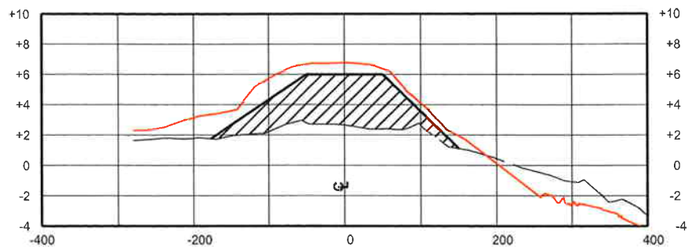
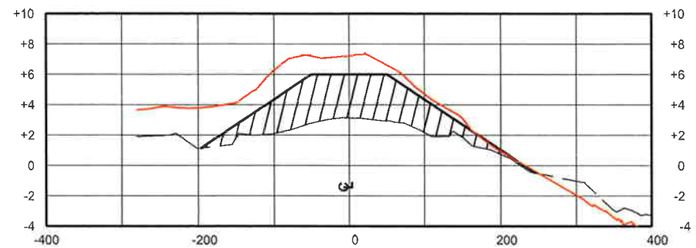
VERT 1"=10'



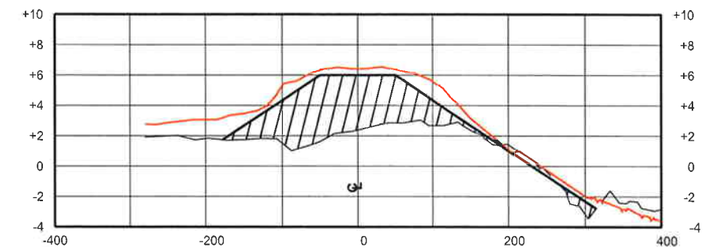
STA. 307+87
SCALE: HORIZ 1"=200'
VERT 1"=10'



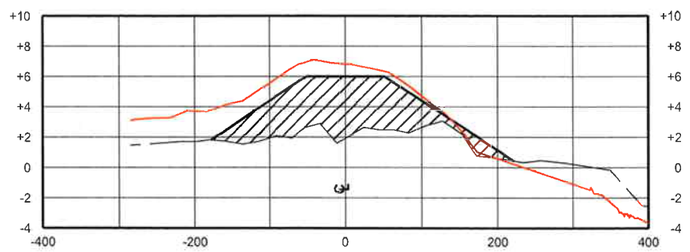
STA. 291+15
SCALE: HORIZ 1"=200'
VERT 1"=10'



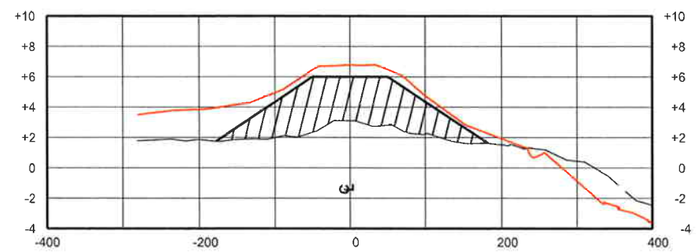
STA. 300+58
SCALE: HORIZ 1"=200'
VERT 1"=10'



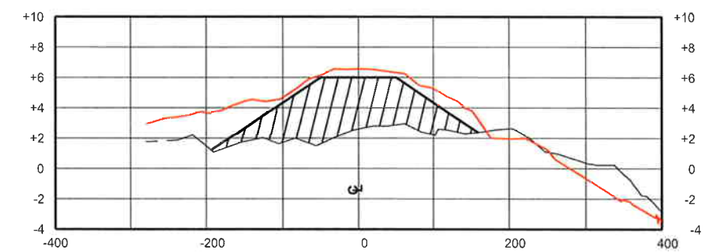
STA. 310+37
SCALE: HORIZ 1"=200'
VERT 1"=10'



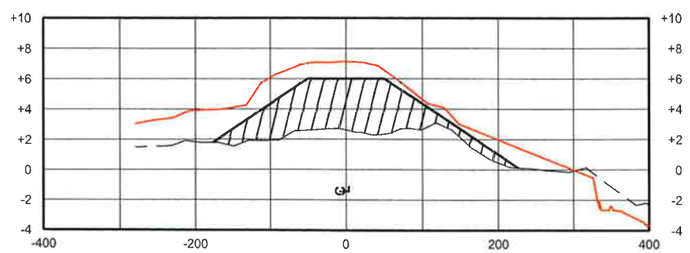
STA. 293+67
SCALE: HORIZ 1"=200'
VERT 1"=10'



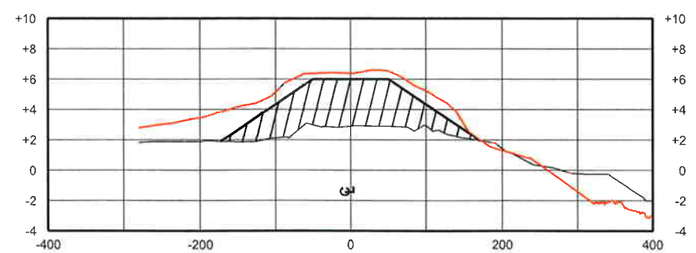
STA. 303+09
SCALE: HORIZ 1"=200'
VERT 1"=10'



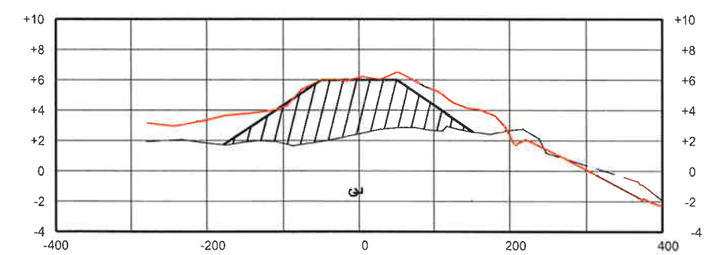
STA. 312+87
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 295+57
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 305+37
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 314+99
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

AS-BUILT

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - AUGUST 2009 SURVEY
- DESIGN TEMPLATE
- DUNE FILL

090105X03.dwg

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

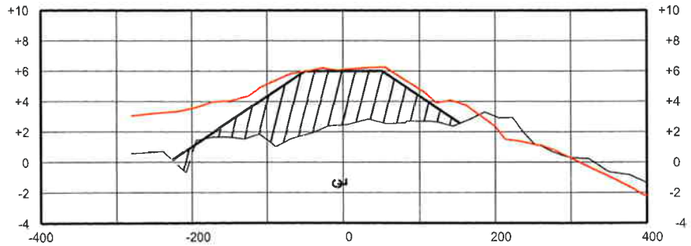
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50

DUNE CROSS SECTIONS
SHEET 1 OF 1
(ADDITIVE ALTERNATE)

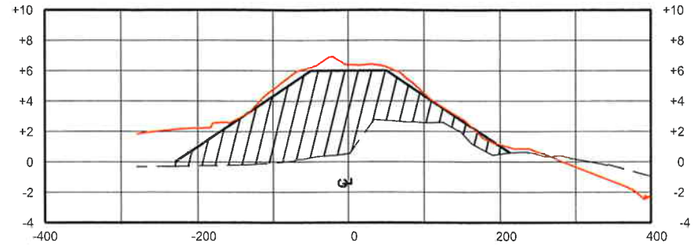
DATE: SEPTEMBER 2008

APPROVED BY: KPR

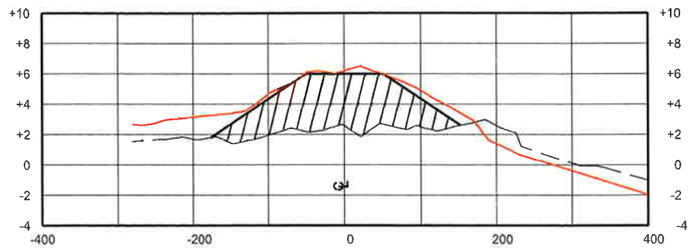
SHEET 13a OF 22



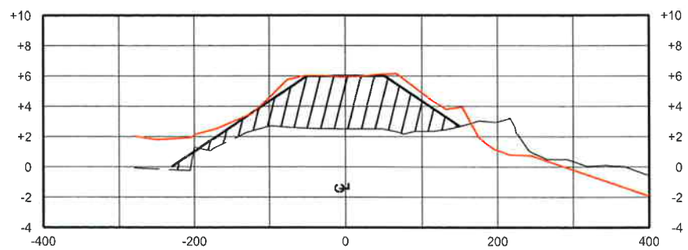
STA. 317+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



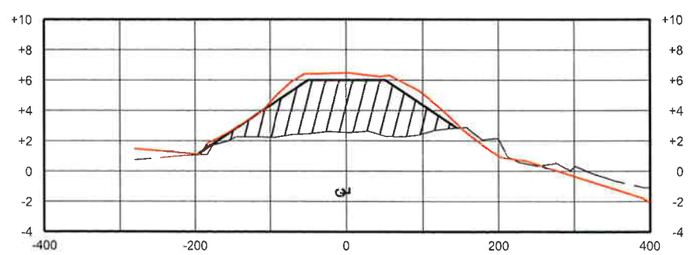
STA. 327+28
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 320+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 322+51
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 325+01
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR DUNE FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.
2) THE DUNE SHALL BE SEEDED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

AS-BUILT

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

LEGEND

- AS-BUILTS - OCTOBER 2009 SURVEY
- EXISTING PROFILE - AUGUST 2009 SURVEY
- DESIGN TEMPLATE
- DUNE FILL

090105X03.dwg

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
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(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

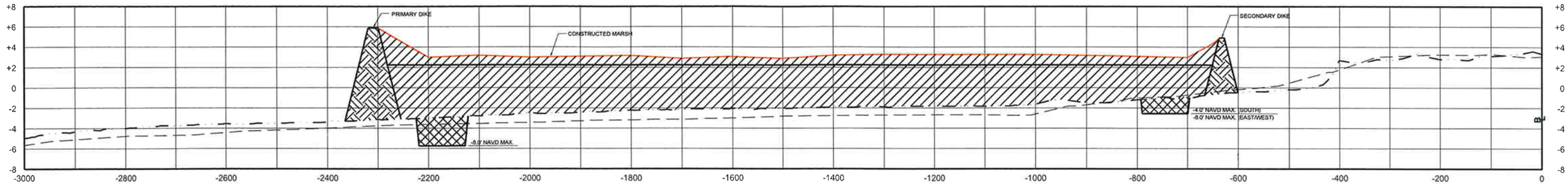
DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

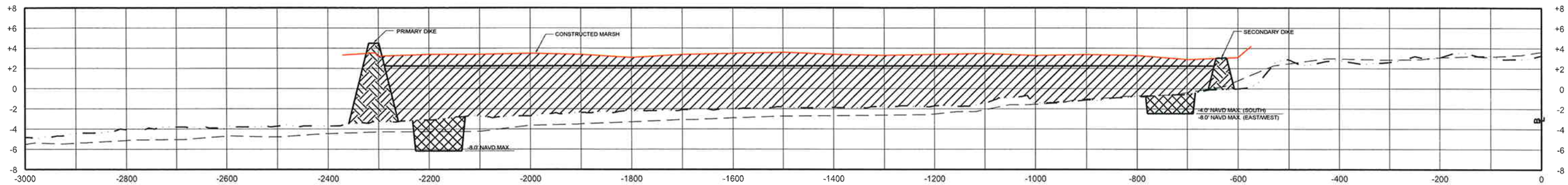
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

DUNE CROSS SECTIONS
SHEET 3 OF 3
(ADDITIVE ALTERNATE)

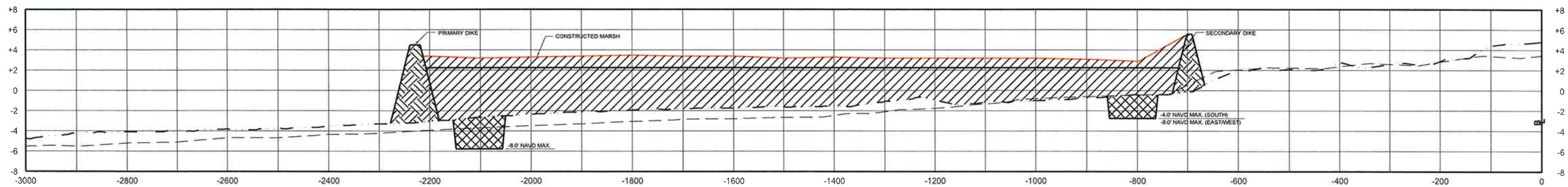
DATE: SEPTEMBER 2008
SHEET 13b OF 22



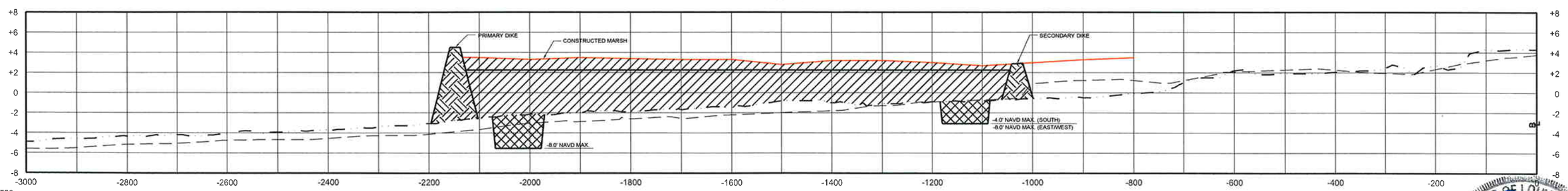
STA. 407+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 405+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 402+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 400+00
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

AS-BUILT

LEGEND
- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE
- MARSH FILL
- CONTAINMENT DIKE
- EXCAVATION FOR CONTAINMENT DIKE

090105X04.dwg

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

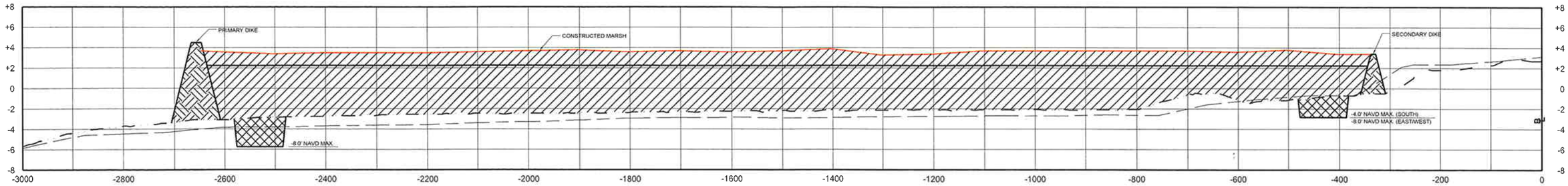
DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

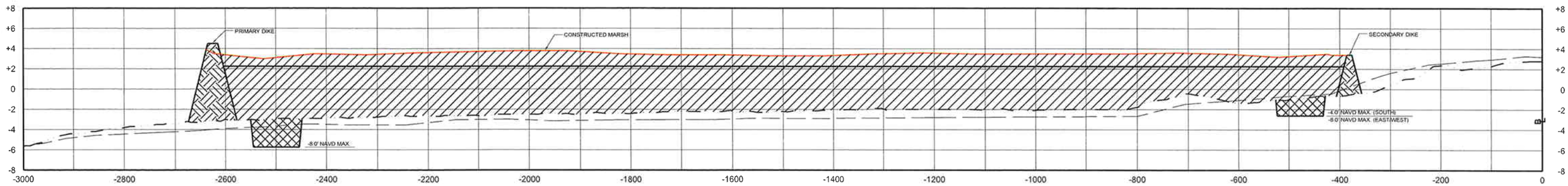
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

MARSH PLATFORM
CROSS SECTIONS
DATE: SEPTEMBER 2009
SHEET 14 OF 22

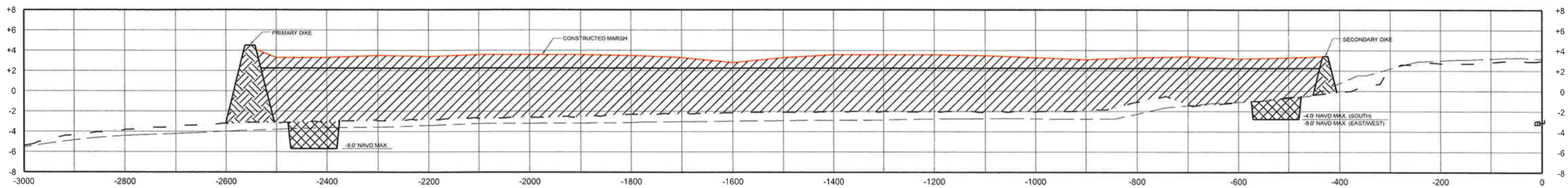
STATE OF LOUISIANA
KEVIN P. RITZO
LICENSED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10



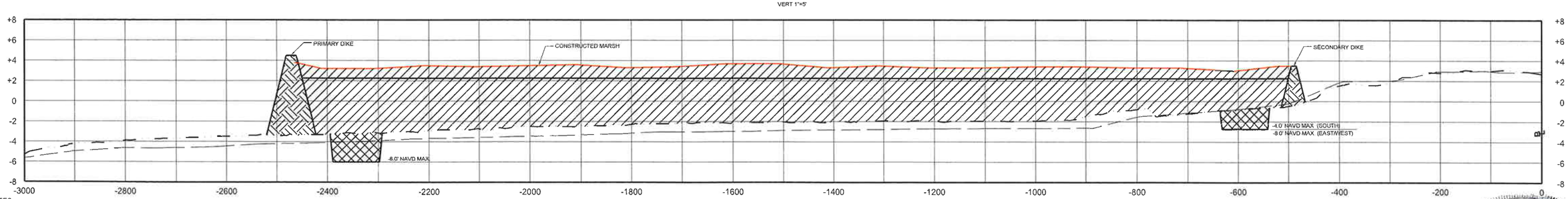
STA. 417+50
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 415+00
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 412+50
SCALE: HORIZ 1"=100'
VERT 1"=5'



STA. 410+00
SCALE: HORIZ 1"=100'
VERT 1"=5'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

AS-BUILT

LEGEND
- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE
- MARSH FILL
- CONTAINMENT DIKE
- EXCAVATION FOR CONTAINMENT DIKE

090105X05.dwg

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR
APPROVED BY: KPR

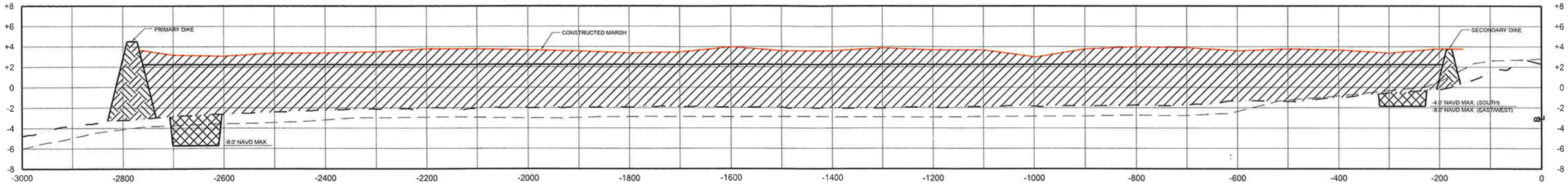
WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50

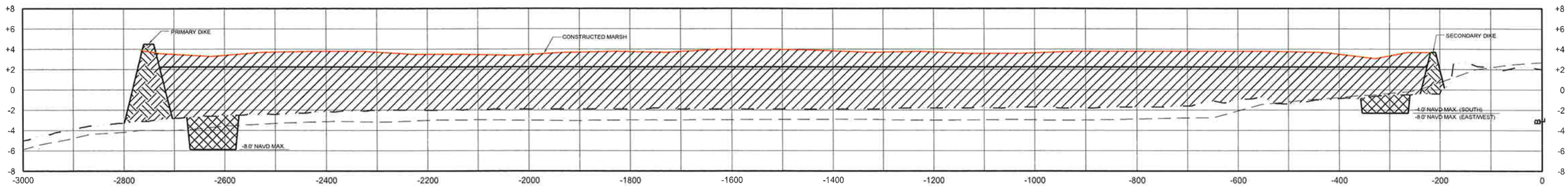
MARSH PLATFORM
CROSS SECTIONS
SHEET 2 OF 2

DATE: SEPTEMBER 2009
SHEET 15 OF 22

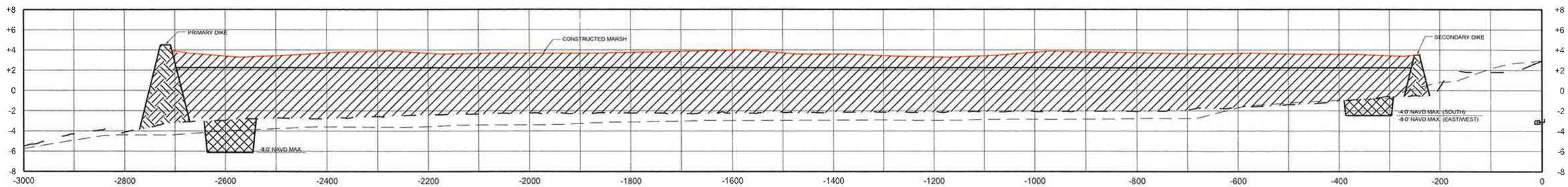
STATE OF LOUISIANA
LICENSED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10



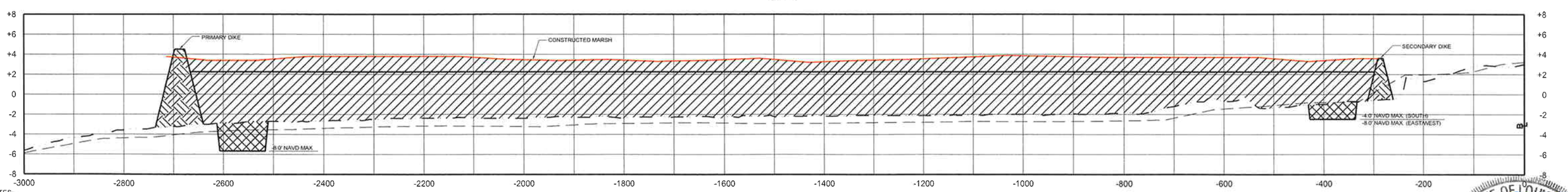
STA. 427+50
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 425+00
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 422+50
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 420+00
SCALE HORIZ 1"=200'
VERT 1"=10'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE

MARSH FILL | CONTAINMENT DIKE | EXCAVATION FOR CONTAINMENT DIKE

AS-BUILT

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

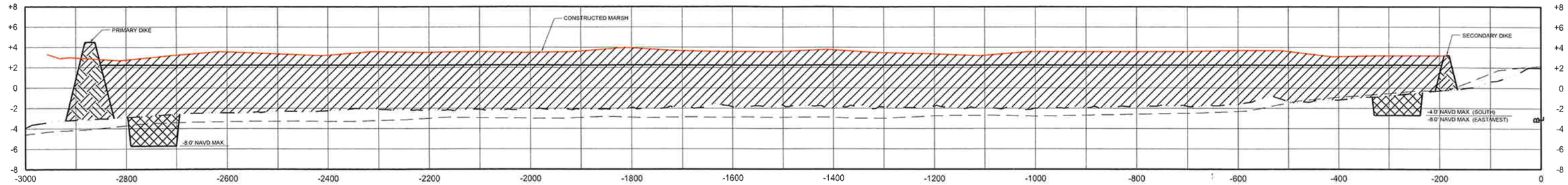
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

MARSH PLATFORM
CROSS SECTIONS
SHEET 16 OF 22

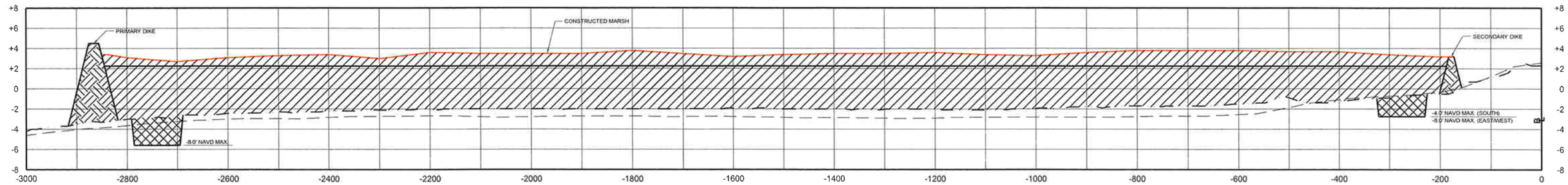
STATE OF LOUISIANA
KEVIN P. RIZZO
Licensee No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

06/04/10

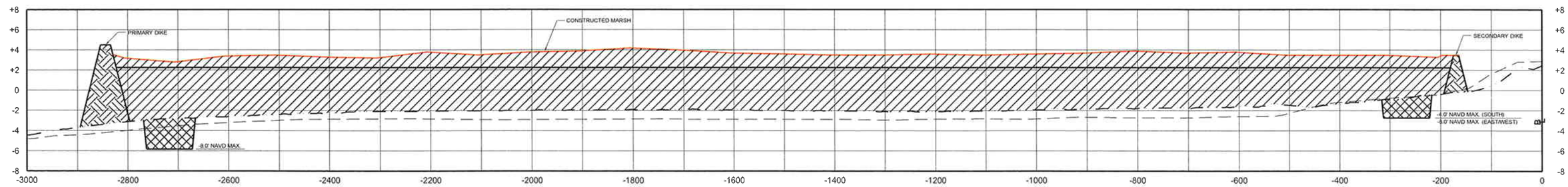
090105X06.dwg



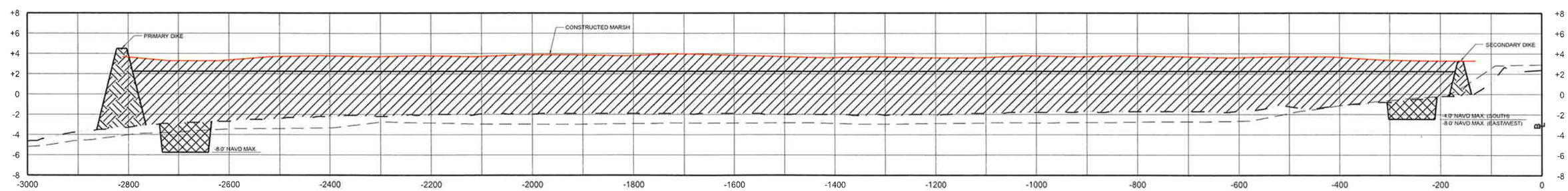
STA. 437+50
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 435+00
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 432+50
SCALE HORIZ 1"=200'
VERT 1"=10'



STA. 430+00
SCALE HORIZ 1"=200'
VERT 1"=10'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE

MARSH FILL | CONTAINMENT DIKE | EXCAVATION FOR CONTAINMENT DIKE

AS-BUILT

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
(985) 868-1050 www.tbsmith.com

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

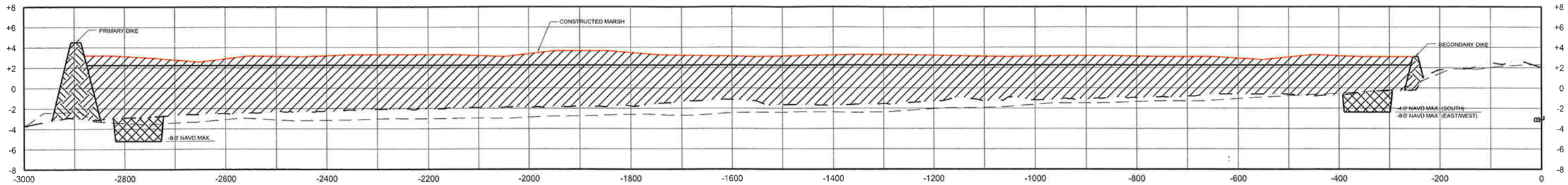
STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

MARSH PLATFORM
CROSS SECTIONS
SHEET 4 OF 7
DATE: SEPTEMBER 2008
SHEET 17 OF 22

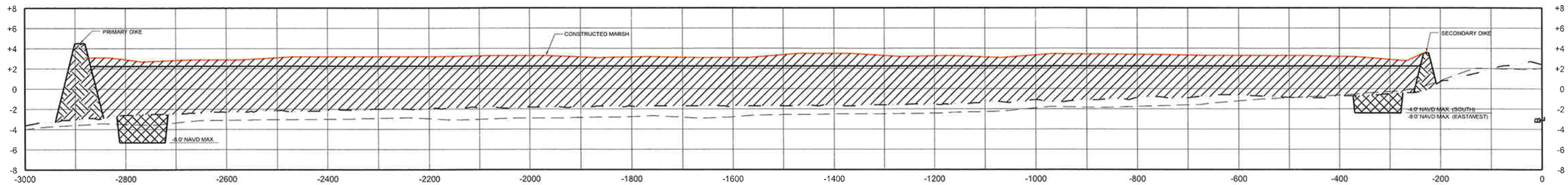
STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

06/04/10

090105X07.dwg



STA. 447+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



445+00
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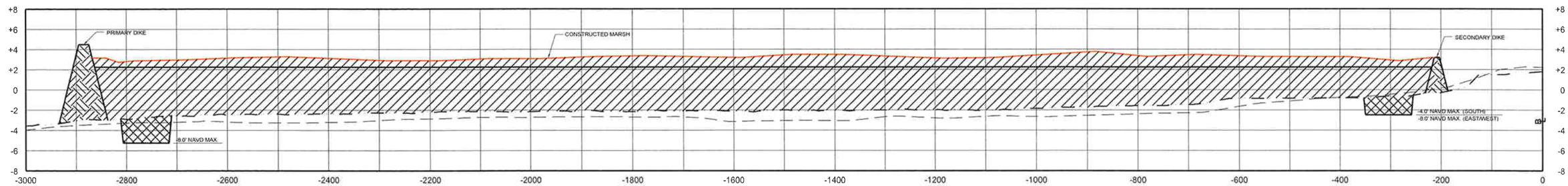

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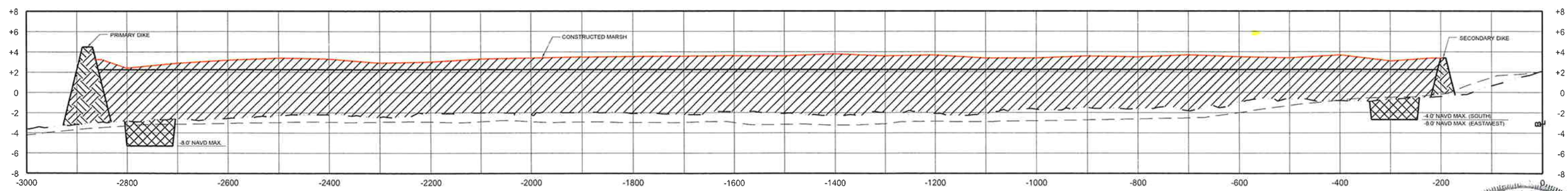

STA. 440+00
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:
1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

LEGEND
- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE
- MARSH FILL
- CONTAINMENT DIKE
- EXCAVATION FOR CONTAINMENT DIKE

AS-BUILT

REV.	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP
DESIGNED BY: KPR

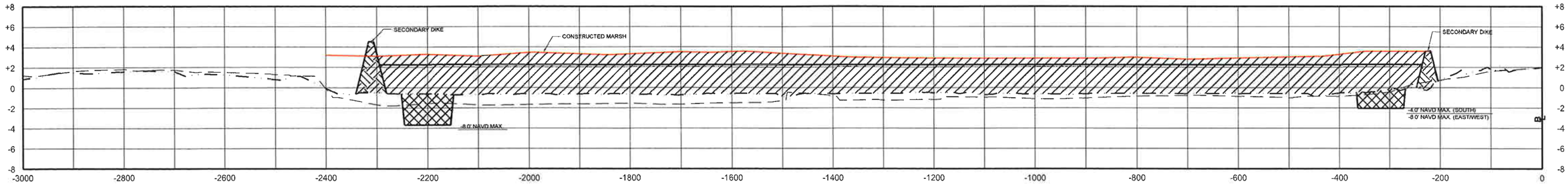
WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

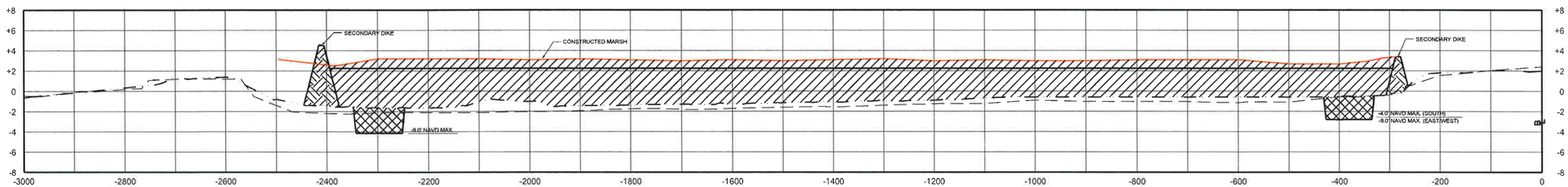
MARSH PLATFORM
CROSS SECTIONS
SHEET 3 OF 5
DATE: SEPTEMBER 2008
SHEET 18 OF 22

STATE OF LOUISIANA
LICENSED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
02/04/10

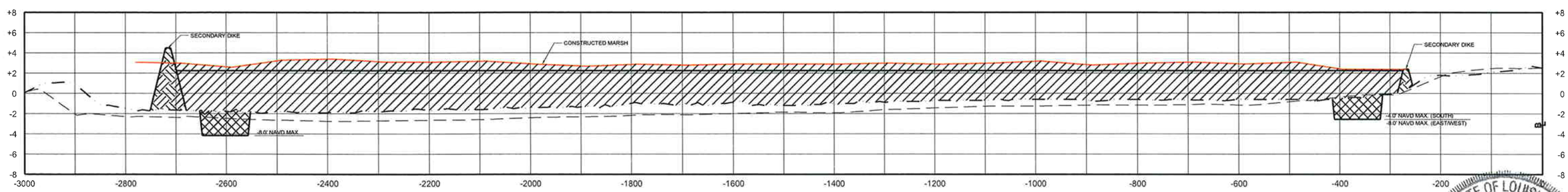
090105X08.dwg



STA. 455+00
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 452+50
SCALE: HORIZ 1"=200'
VERT 1"=10'



STA. 450+00
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE.

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE

MARSH FILL | CONTAINMENT DIKE | EXCAVATION FOR CONTAINMENT DIKE

090105X09.dwg

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

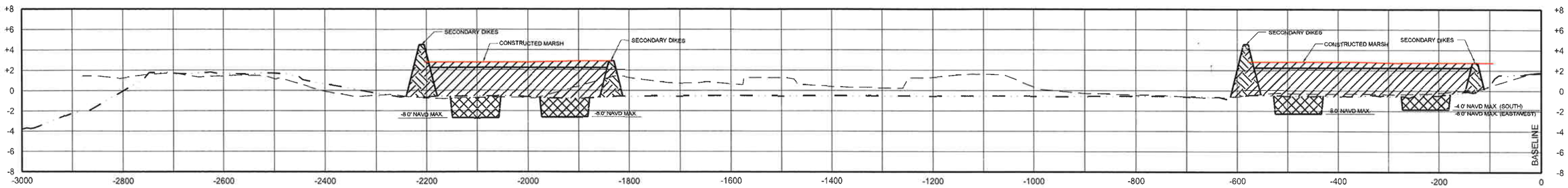
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

MARSH PLATFORM CROSS SECTIONS SHEET 6 OF 7

DATE: SEPTEMBER 2008

SHEET 19 OF 22



STA. 459+00
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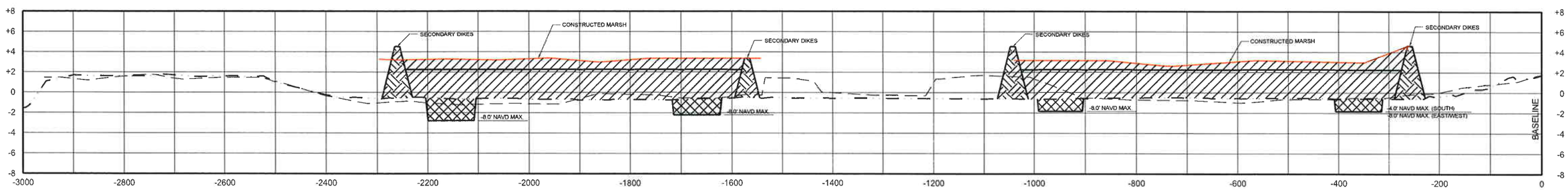
VERT 1"=10'



STA. 457+50
SCALE: HORIZ 1"=200'
VERT 1"=10'

NOTES:

1) MAXIMUM TOLERANCE FOR MARSH FILL IS 0.5' ABOVE OR BELOW THE DESIGN TEMPLATE

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

LEGEND

- AS-BUILT - OCTOBER 2009 SURVEY
- EXISTING PROFILE - MARCH 2009 SURVEY
- EXISTING PROFILE - JUNE 2006 SURVEY
- DESIGN TEMPLATE

MARSH FILL | CONTAINMENT DIKE | EXCAVATION FOR CONTAINMENT DIKE

090105X09.dwg

REV	DATE	DESCRIPTION	BY
1	2-2-10	AS-BUILT	KMB

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

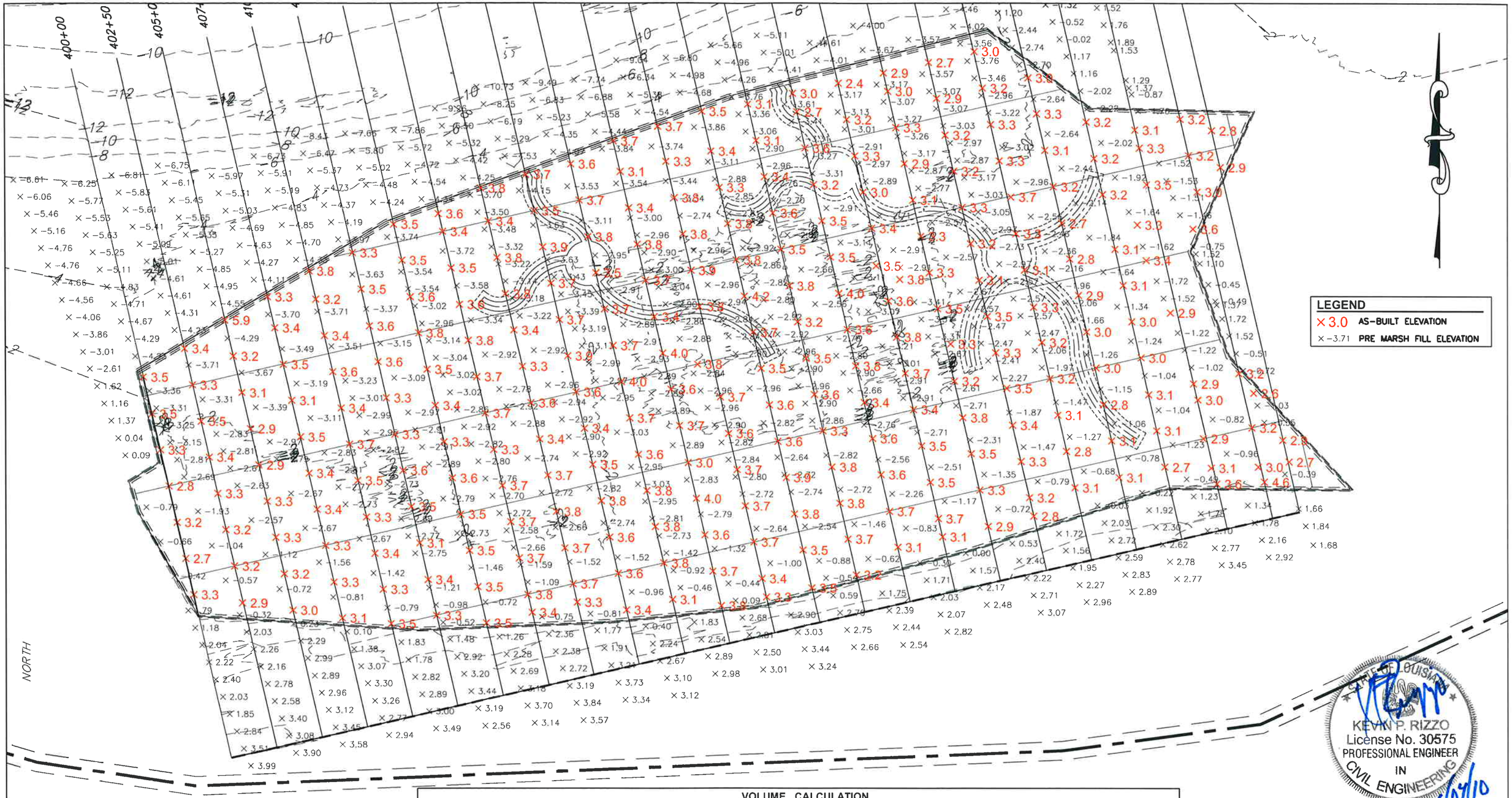
FEDERAL PROJECT NUMBER: TE-50

APPROVED BY: KPR

MARSH PLATFORM CROSS SECTIONS SHEET 7 OF 7

DATE: SEPTEMBER 2008

SHEET 20 OF 22



VOLUME CALCULATION

Base Surface	Comparison Surface	Cut	Fill	Net	Pay Volume	Pit to Fill Ratio
PRE MARSH FILL	AS-BUILT	0.00 Cu. Yd.	2,822,066.28 Cu. Yd.	2822066.28 Cu. Yd.	2,300,000 Cu. Yd.	1 to 1.23

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

AS-BUILT

REV	DATE	DESCRIPTION	BY

051176X12

MOFFATT & NICHOL

TBS T. BAKER SMITH
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

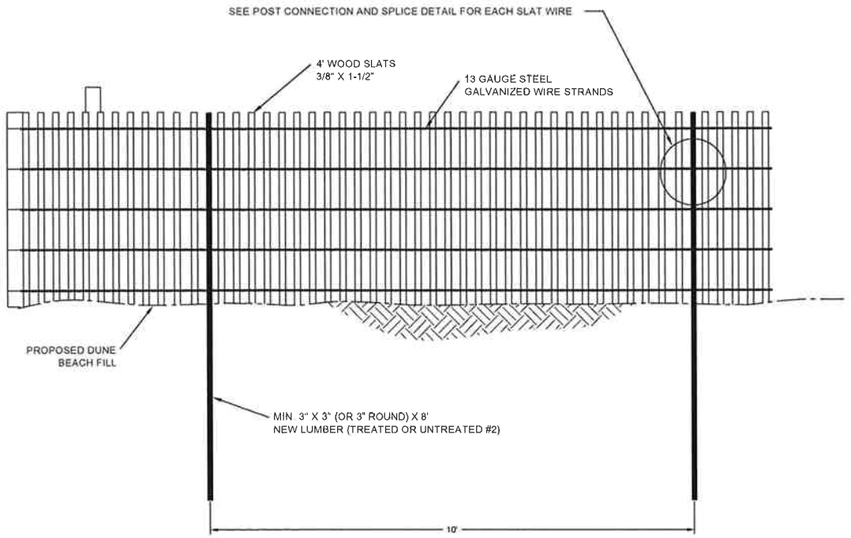
DRAWN BY: KSP
DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50
APPROVED BY: KPR

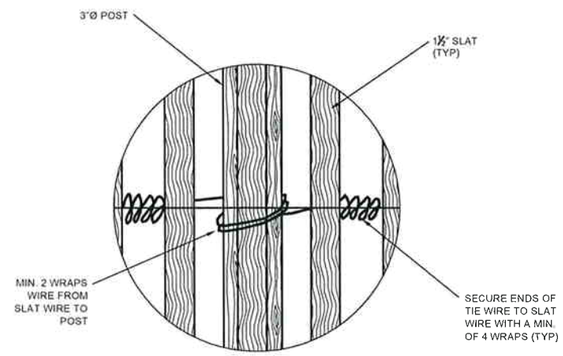
MARSHFILL VOLUME
CALCULATIONS

DATE: SEPTEMBER 2008
SHEET 209 OF 22



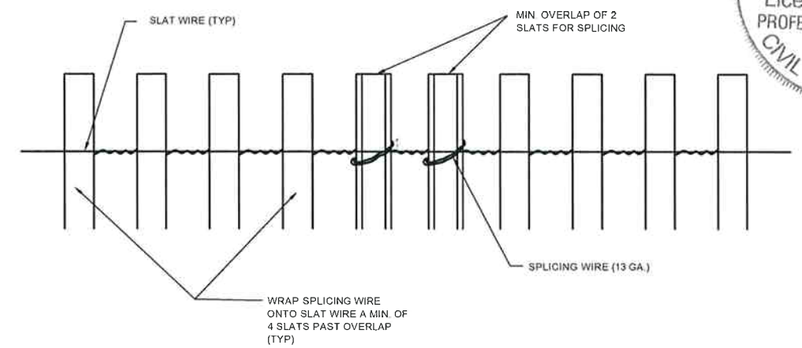
FENCING DIMENSIONS

N.T.S.



POST CONNECTION

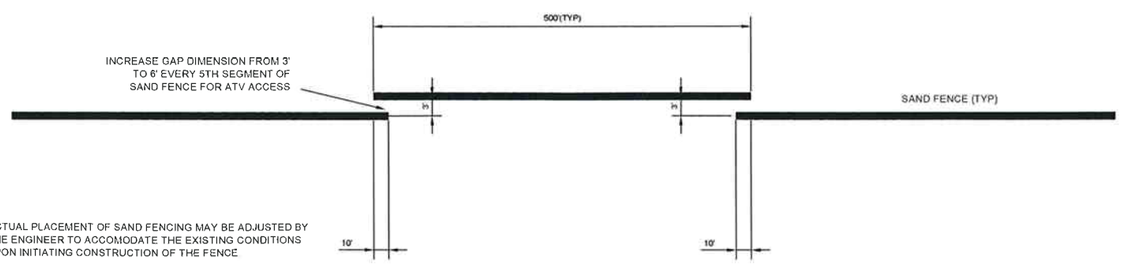
N.T.S.



SPLICE DETAIL

N.T.S.

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10



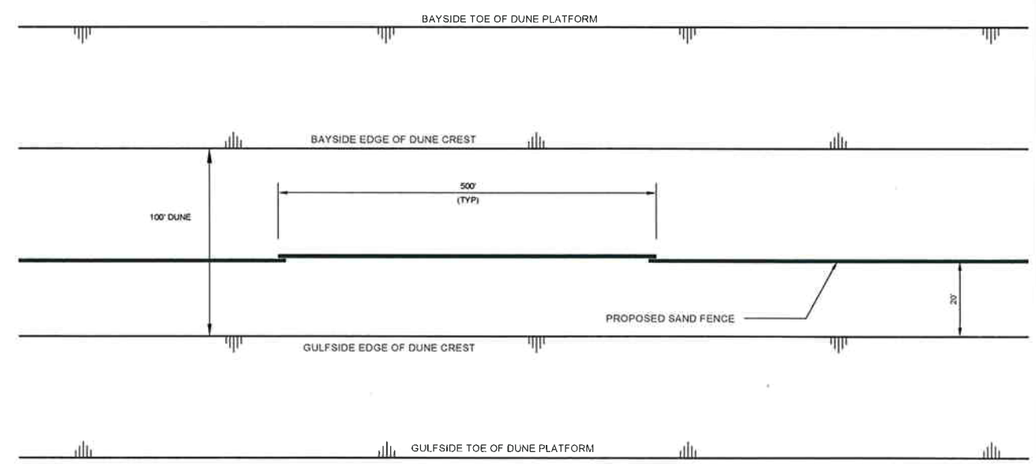
NOTES:

1) ACTUAL PLACEMENT OF SAND FENCING MAY BE ADJUSTED BY THE ENGINEER TO ACCOMODATE THE EXISTING CONDITIONS UPON INITIATING CONSTRUCTION OF THE FENCE

2) THE DISTANCE FROM THE SAND FENCE TO THE EDGE OF DUNE CREST ON THE GULF SIDE IS 20'

GAPPING DIMENSIONS

N.T.S.



AS-BUILT

SAND FENCE LAYOUT

N.T.S.

REV	DATE	DESCRIPTION	BY

MOFFATT & NICHOL

T. BAKER SMITH
PROFESSIONAL CONSULTANTS SINCE 1913
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KSP | DESIGNED BY: KPR

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09

FEDERAL PROJECT NUMBER: TE-50

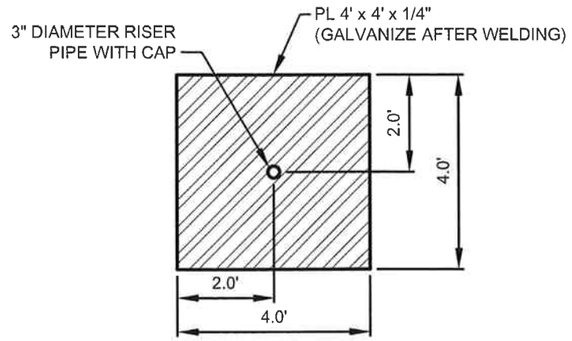
APPROVED BY: KPR

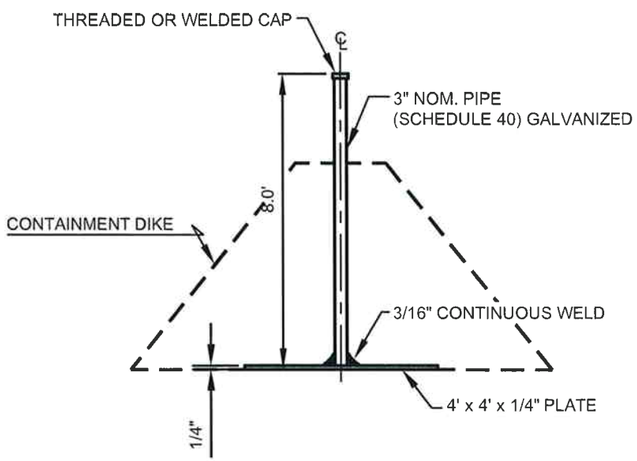
SAND FENCE DETAILS
(ADDITIVE ALTERNATE)

DATE: SEPTEMBER 2008

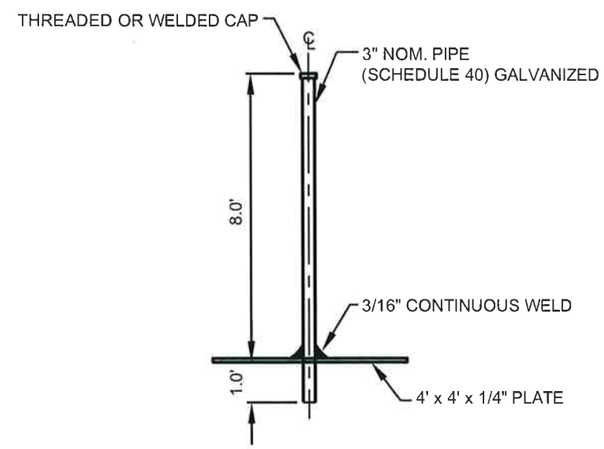
SHEET 21 OF 22

051176D01

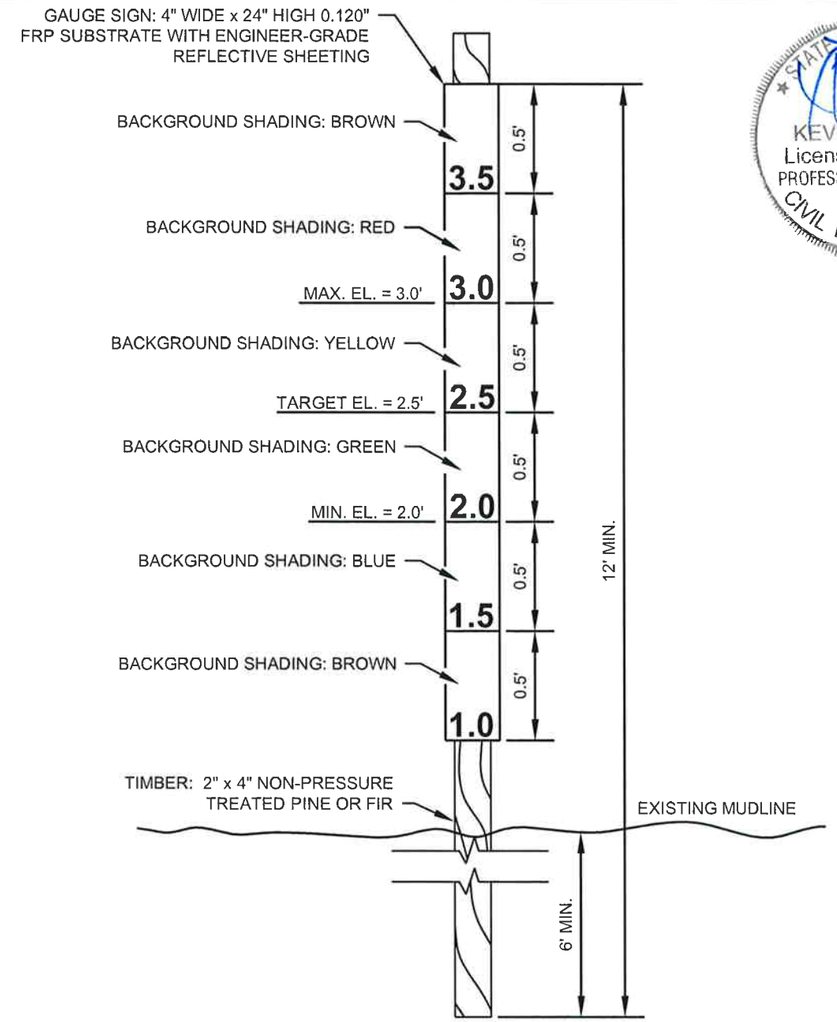




EARTHEN CONTAINMENT DIKE
SETTLEMENT PLATE
NOT TO SCALE



MARSH CREATION
SETTLEMENT PLATE
NOT TO SCALE



GRADE STAKE
NOT TO SCALE

STATE OF LOUISIANA
KEVIN P. RIZZO
License No. 30575
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
06/04/10

SETTLEMENT PLATE NOTES:

1. SETTLEMENT PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. LOCATION AND ELEVATION WILL BE RECORDED DURING AS-BUILT SURVEY.
3. FOR INSTALLATION METHOD REFER TO TS-8 OF THE PROJECT SPECIFICATIONS.
4. SEE SHEET 5 FOR SETTLEMENT PLATE LOCATIONS.

GRADE STAKE NOTES:

1. SEE SPECIFICATION TS-10 "GRADE STAKES" FOR GRADE STAKE PLACEMENT.
2. THE SIGNS SHALL HAVE THE DIMENSIONS, NUMBERING , AND SHADING AS SHOWN.
3. THE GAUGE SIGN SHALL BE CONSTRUCTED OF 0.120" THICK FIBERGLASS REINFORCED PLASTIC (FRP) WHICH HAS BEEN UV STABILIZED FOR OUTDOOR WEATHERABILIY. THE FRP MATERIAL SHALL BE WHITE OR GRAY IN COLOR AND BE TOTALLY DIELECTRIC AND NON-CONDUCTIVE.
4. THE MARSH FILL GRADE STAKES SHALL HAVE ELEVATION DELINEATIONS FOR MINIMUM, TARGET, AND MAXIMUM ELEVATIONS AS STATED IN SECTION TS-3.11.
5. THIS WORK CONSISTS OF FURNISHING, ASSEMBLING, INSTALLING, AND REMOVING THE REQUIRED MATERIAL FOR GRADE STAKES IN ACCORDANCE WITH SPECIFICATION TS-10 "GRADE STAKES". THE GRADE STAKES SHALL BE USED BY THE CONTRACTOR TO MONITOR ELEVATIONS OF THE MARSH FILL WITHIN THE FILL AREA. IF AREAS ARE DEEMED INACCESSIBLE BY THE ENGINEER FOR PAYMENT SURVEYS AFTER PLACEMENT OF THE FILL, THE CONTRACTOR SHALL USE THE GRADE STAKES TO DETERMINE PAYMENT ELEVATIONS AND VOLUMES. IN SUCH CASE THE CONTRACTOR SHALL DETERMINE MARSH ELEVATION FROM VISUAL INSPECTIONS OF THE GRADE STAKES UNDER DIRECT SUPERVISION OF THE INSPECTOR.

AS-BUILT

REV.	DATE	DESCRIPTION	BY

MOFFATT & NICHOL
T. BAKER SMITH

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

WHISKEY ISLAND BACK BARRIER
MARSH CREATION (TE-50)

STATE PROJECT NUMBER: 2511-05-09
FEDERAL PROJECT NUMBER: TE-50

SETTLEMENT PLATE AND
GRADE STAKE DETAILS

DATE: SEPTEMBER 2008

DRAWN BY: KSP | DESIGNED BY: KPR | APPROVED BY: KPR

SHEET 22 OF 22

051176D01