

# CHALAND HEADLAND RESTORATION (BA-38-2) CWPPRA PROJECT AS-BUILT DRAWINGS

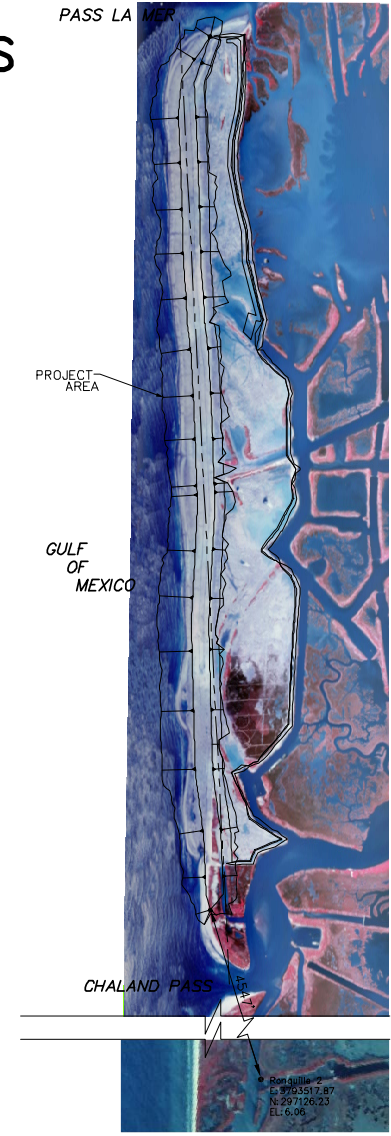
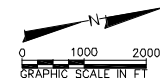
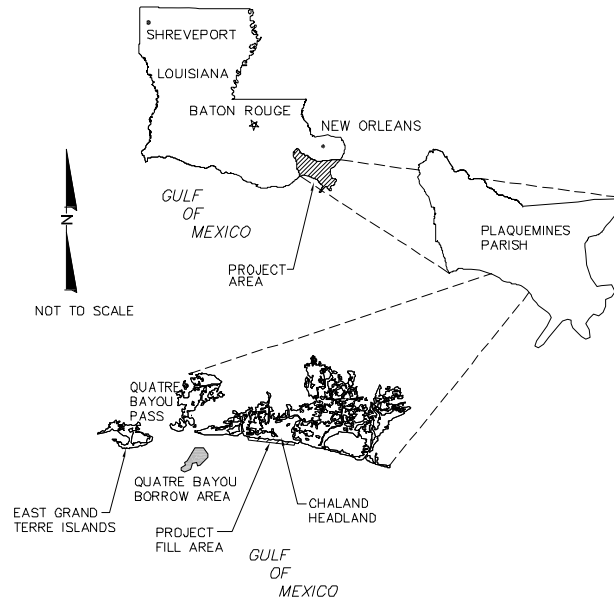
POINTS OF INTERSECTION (PI) OF  
PROFILE LINES WITH PROJECT  
BASELINE (RNG. 0+00)

PI	EASTING	NORTHING
CG01	3774831.3	299096.3
CG02	3775311.7	299037.2
CG03 / PLM3	3775792.0	298978.1
CG04	3776272.4	298919.0
CG05	3776752.7	298859.9
CG06 / PLM4	3777233.0	298800.8
CG07	3777713.4	298741.7
CG08	3778193.7	298682.6
CG09 / PLM5	3778674.0	298623.5
CG10	3779154.4	298564.4
CG11	3779634.7	298505.3
CG12 / PLM6	3780115.0	298446.2
CG13	3780595.4	298387.1
CG14	3781075.7	298328.0
CG15 / PLM7	3781556.0	298268.9
CG16	3782036.7	298209.7
CG17	3782517.4	298150.6
CG18 / PLM8	3782998.0	298091.4
CG18A	3783399.6	298032.3
CG19	3783478.3	298032.3
CG20	3783718.5	298002.8
CG20	3783998.6	297973.2
CG21	3784198.9	297943.7
CG21 / PLM9	3784439.0	297914.1
CG22	3784679.2	297884.6
CG22	3784919.3	297855.0
CG23	3785159.5	297825.5
CG23	3785399.7	297796.0
CG24	3785880.0	297756.8
CG24 / PLM10	3785880.0	297756.8
CG25	3786120.2	297707.3
CG25	3786360.4	297677.8
CG26	3786602.0	297638.2
CG26	3786840.7	297618.7
CG27 / PLM11	3787321.0	297559.5
CG28	3787801.1	297500.4
CG28A	3787940.8	297483.3
CG28B	3788106.4	297462.9
CG29	3788281.2	297441.4
CG30 / PLM12	3788761.3	297382.3
CG31	3789241.5	297323.2
CG32	3789721.5	297264.2
CG33	3790201.6	297205.1

State Plane, NAD83, Louisiana South - 1702,  
NAVD 1988, U.S. Survey Feet

NOTE:  
PI MARKERS WITH ELEVATIONS TO BE SET AND  
MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.

NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES
3-4	AS-BUILT ISLAND TOPOGRAPHY/BATHYMETRY
5-6	AS-BUILT ISLAND FEATURES
7	AS-BUILT BORROW AREA CONTOURS
8	AS-BUILT BORROW AREA CROSS SECTIONS
9-23	AS-BUILT ISLAND CROSS SECTIONS
24-29	AS-BUILT OIAC CROSS SECTIONS
30	AS-BUILT SAND FENCE & NAVIGATION SIGN DETAILS
31	AS-BUILT SETTLEMENT PLATE DETAIL
32-34	AS-BUILT ROBINSON CANAL CONTOURS
35	AS-BUILT ROBINSON CANAL CRDSS SECTIONS



CHALAND HEADLAND RESTORATION  
(BA-38-2)  
CWPPRA PROJECT - AS-BUILT DRAWINGS

COVER SHEET

CS

DRAWING NO.  
CS

Prepared by: [ ]  
Checked by: [ ]  
Designed by: [ ]  
Reviewed by: [ ]  
Date: 12/07  
Scale: [ ]  
Comments: [ ]  
AS NOTED: [ ]

No. [ ]  
Date [ ]  
Description [ ]

1. LATEST REVISIONS


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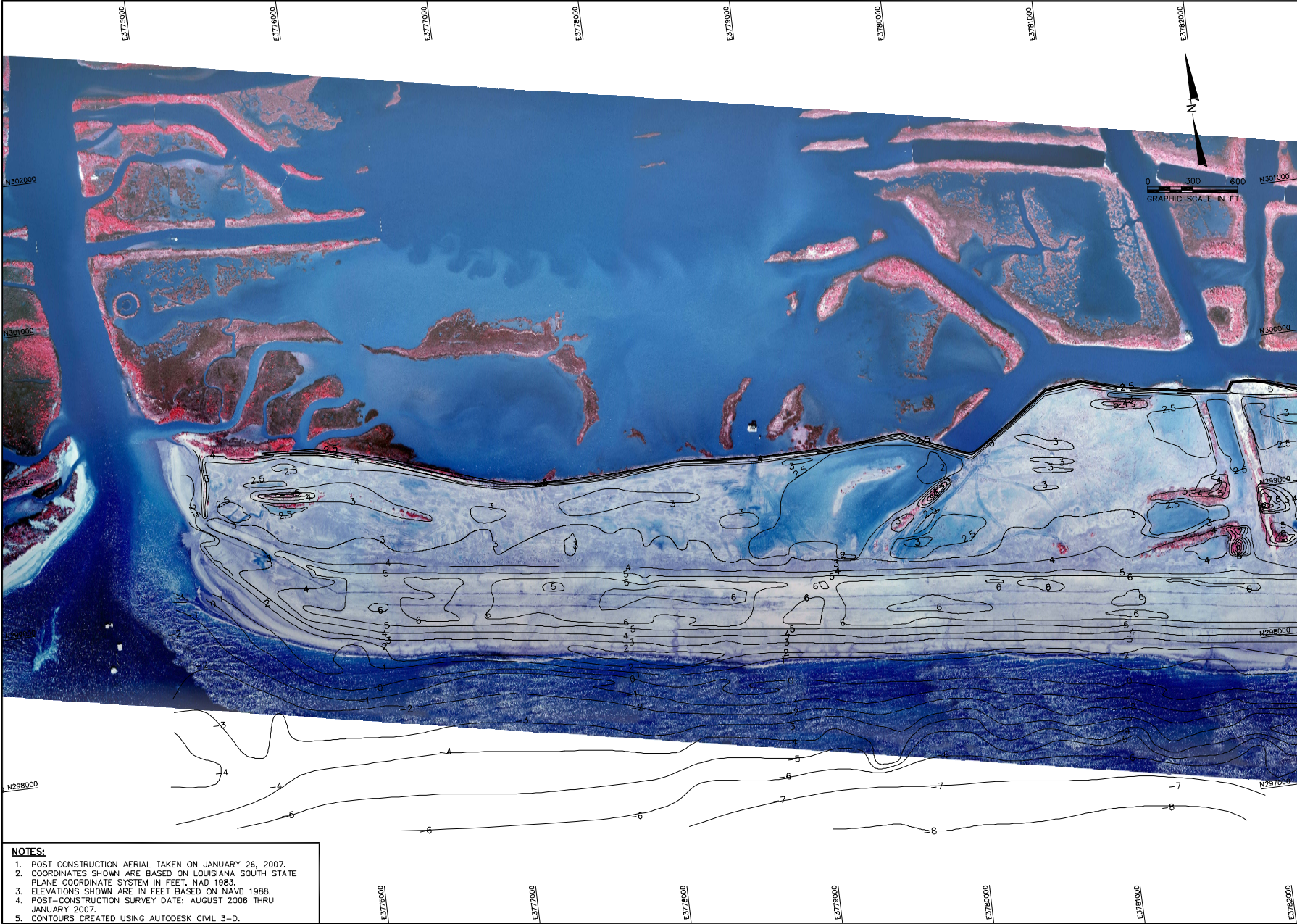
Coastal Planning & Engineering, Inc.  
2481 N.W. BOCCA RATON BOULEVARD  
BOCCA RATON, FLORIDA 33431  
PH: (851) 391-8102  
FAX: (851) 391-8116  
C.O.A. FL #4928  
C.O.A. LA #2331  
www.CoastalPlanEng.net

**GENERAL NOTES:**

1. THE PROJECT AREA IS USED AS A NESTING AREA BY PROTECTED BIRD SPECIES. AT A MINIMUM THE CONTRACTOR PATROL THE BEACH TWICE DAILY TO IDENTIFY ANY NESTING BIRDS FROM INITIATION OF THE PROJECT THROUGH SEPTEMBER 15, 2005. CONTRACTOR REQUIREMENTS REGARDING BIRD NESTING ARE PROVIDED IN SECTION 7 OF THE ENVIRONMENTAL PROTECTION PROVISIONS.
2. LOCATION OF INFRASTRUCTURE (WELLHEADS, PIPELINES, ETC.) ARE FOR INFORMATIONAL PURPOSES ONLY TO DEMONSTRATE COMPLEXITY OF AREA. CONTRACTOR SHALL CONFIRM LOCATIONS.
3. UPON COMPLETION OF THIS PROJECT, THE PRIMARY DIKES SHALL BE LEFT IN PLACE BY THE CONTRACTOR. THE CONTRACTOR SHALL EXERCISE CARE TO MAINTAIN THE PRIMARY DIKES AT THE DESIGN ELEVATIONS DURING THE PROJECT AND SHALL PREVENT ANY BREACHES OF THE DIKES FOR THE DURATION OF THIS PROJECT.
4. BEACH AND DUNE FILL SHALL NOT EXCEED A SILT CONTENT OF 15% WITH A MINIMUM MEAN GRAIN SIZE OF 0.09 mm AS MEASURED ON THE BEACH FOLLOWING PLACEMENT.
5. THE CONTRACTOR SHALL NOTE THAT BAYS, WATER BOTTOMS, CREEKS AND PONDS IN THE VICINITY OF THE PROJECT MAY INCLUDE NUMEROUS PUBLICLY-ISSUED AND PRIVATELY-ISSUED LEASES FOR THE CULTIVATION AND HARVEST OF COMMERCIAL FISHERY RESOURCES. THE LOCATION OF PUBLICLY-ISSUED OYSTER LEASES IN THE VICINITY OF THE PROJECT IS DEPICTED IN APPENDIX 2 OF THE ENVIRONMENTAL PROTECTION SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL ASPECTS OF ITS OPERATIONS TO AVOID ANY AND ALL IMPACTS TO SUCH LEASES.
6. AS-BUILT SURVEY OF THE BEACH BETWEEN STATION 5+00 AND STATION 38+88 WAS CONDUCTED IN AUGUST 2006.
7. AS-BUILT SURVEY OF THE BEACH BETWEEN STATION 40+00 AND STATION 67+91 WAS CONDUCTED IN SEPTEMBER 2006.
8. AS-BUILT SURVEY OF THE MARSH BETWEEN STATION 74+42 AND STATION 53+40 WAS CONDUCTED IN SEPTEMBER 2006.
9. AS-BUILT SURVEY OF THE BEACH BETWEEN STATION 69+00 AND STATION 96+96 WAS CONDUCTED IN OCTOBER 2006.
10. AS-BUILT SURVEY OF THE MARSH BETWEEN STATION 55+82 AND STATION 94+54 WAS CONDUCTED IN NOVEMBER 2006.
11. AS-BUILT SURVEY OF THE MARSH BETWEEN STATION 96+96 AND STATION 124+40 WAS CONDUCTED IN DECEMBER 2006.
12. AS-BUILT SURVEY OF THE BEACH BETWEEN STATION 98+00 AND STATION 145+77 WAS CONDUCTED IN DECEMBER 2006.
13. AS-BUILT SURVEY OF THE MARSH BETWEEN STATION 126+00 AND STATION 140+51 WAS CONDUCTED IN JANUARY 2007.

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CHALAND HEADLAND RESTORATION (BA-38-2) CWPRA PROJECT - AS-BUILT DRAWINGS		<b>COASTAL PLANNING &amp; ENGINEERING, INC.</b> PH: (813) 391-8102 FAX: (813) 391-8116 2481 N.W. BOCCA RATON BOULEVARD BOCCA RATON, FLORIDA 33431 www.CoastalPlanning.net C.O.A. FL #4928 C.O.A. LA #2331																														
<b>GENERAL NOTES</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Revisions</th> <th style="width: 15%;">Issued by</th> <th style="width: 15%;">Checked by</th> <th style="width: 15%;">Date</th> <th style="width: 15%;">No.</th> <th style="width: 20%;">Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Revisions	Issued by	Checked by	Date	No.	Description																								
Revisions	Issued by	Checked by	Date	No.	Description																											
DRAWING NO. <b>GN</b>	SHEET 2 OF 25																															



MATCHLINE SEE SHEET 4

- NOTES:**
1. POST CONSTRUCTION AERIAL TAKEN ON JANUARY 26, 2007.
  2. COORDINATES SHOWN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
  3. ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 1988.
  4. POST-CONSTRUCTION SURVEY DATE: AUGUST 2006 THRU JANUARY 2007.
  5. CONTOURS CREATED USING AUTODESK CIVIL 3-D.

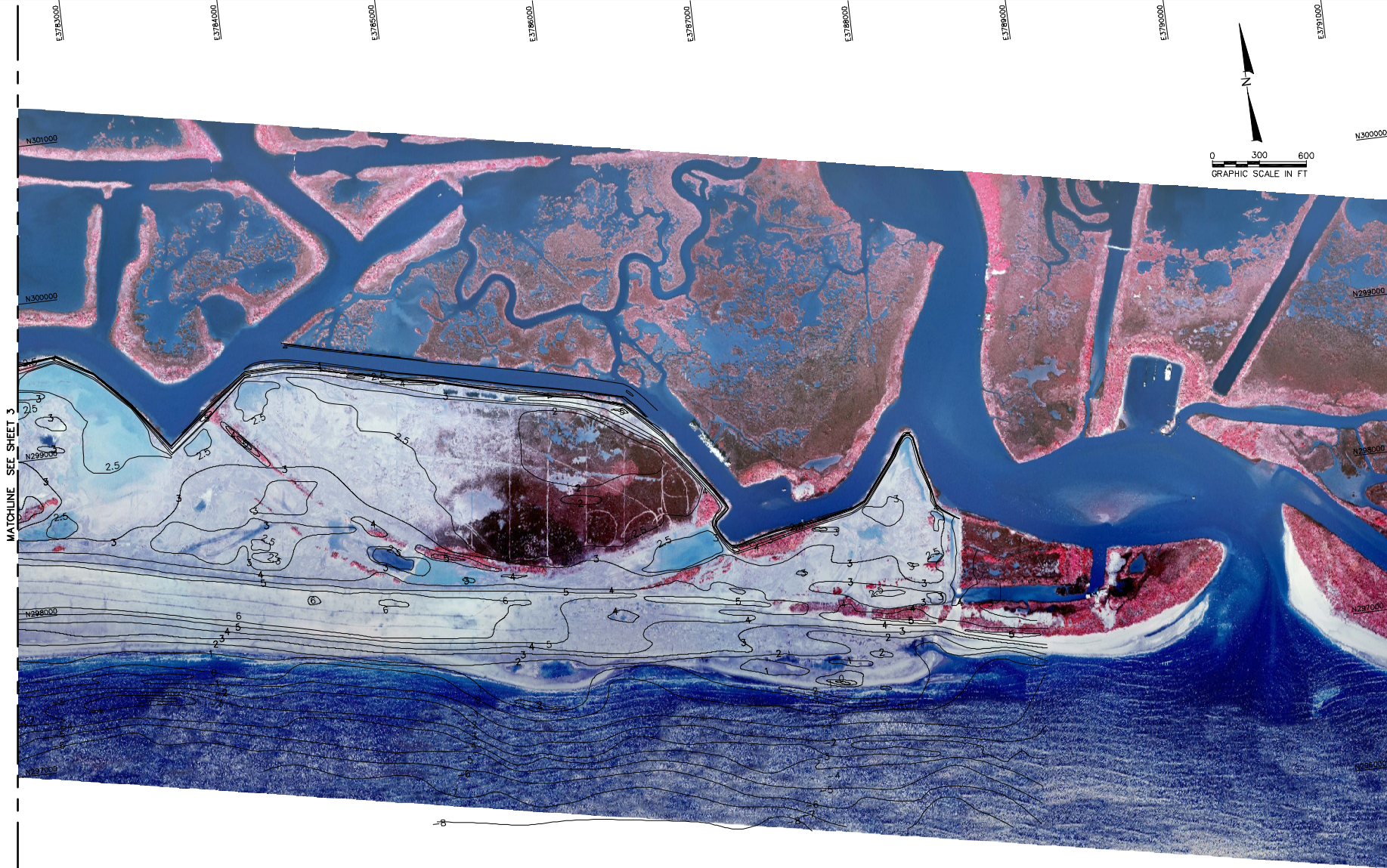
**CPE** **COASTAL PLANNING & ENGINEERING, INC.**  
 2481 N.W. BOCCA RATON BOULEVARD  
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Reference Sheet	Designed by	Checked by	No.	Date	Description
	Drawn by	Reviewed by			
	Date: 13/07	Submitted by			
	Plot Scale	Comm. No.			
	AS NOTED	7281.125			

CHALAND HEADLAND RESTORATION  
 (BA-3B-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
 AS-BUILT ISLAND  
 TOPOGRAPHY/BATHYMETRY

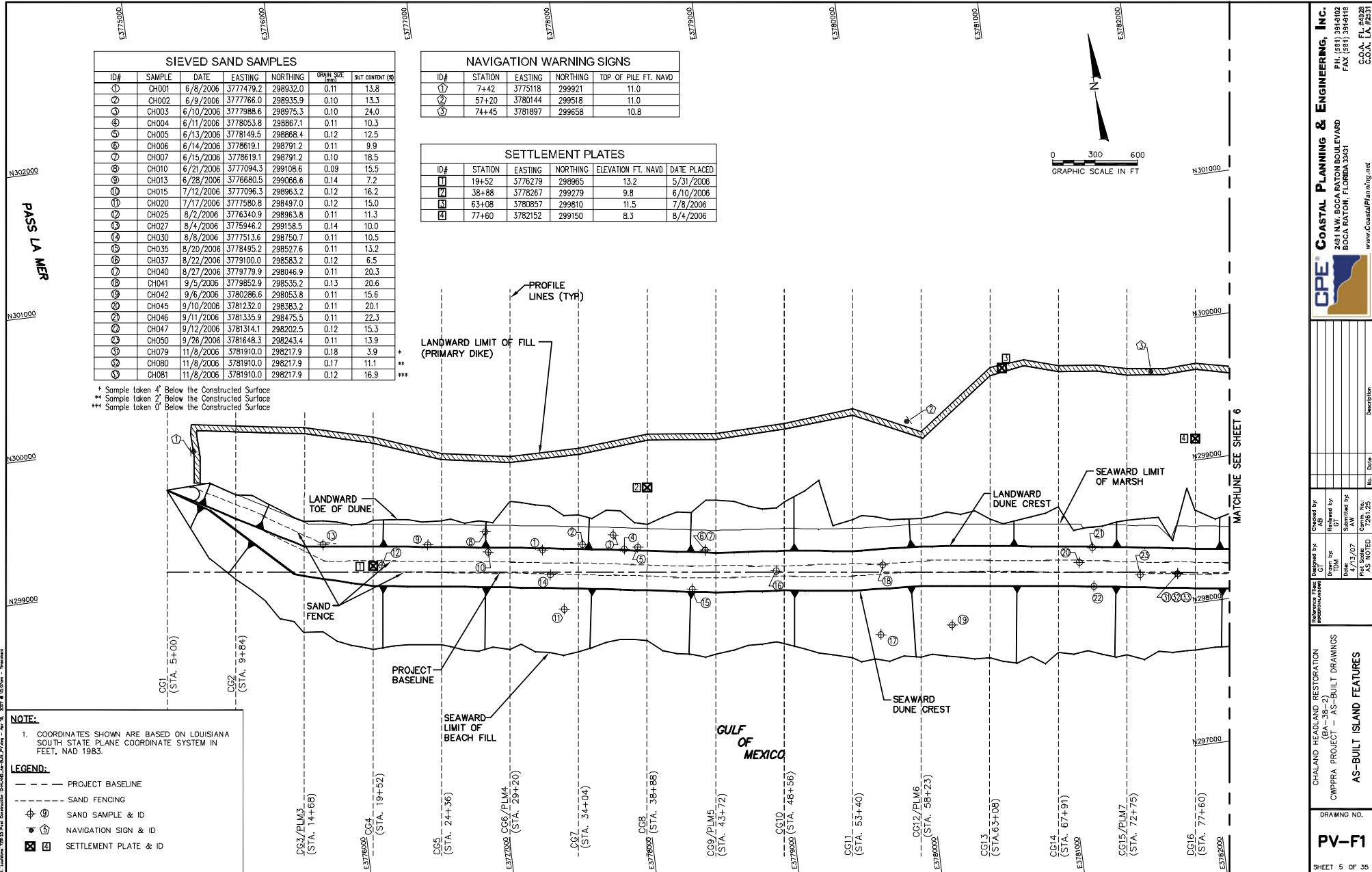
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**PV-C1**  
 SHEET 3 OF 3

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- NOTES:**
1. POST CONSTRUCTION AERIAL TAKEN ON JANUARY 26, 2007.
  2. COORDINATES SHOWN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
  3. ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 1988.
  4. POST-CONSTRUCTION SURVEY DATE: AUGUST 2006 THRU JANUARY 2007.
  5. CONTOURS CREATED USING AUTODESK CIVIL 3-D.

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<p>Reference File:          CHALAND HEADLAND RESTORATION          CWPRA PROJECT - AS-BUILT DRAWINGS          AS-BUILT ISLAND          TOPOGRAPHY/BATHYMETRY</p>	<p>Designed By:          Drawn by:          TDM</p>
<p>Checked By:          GT</p>	<p>Reviewed by:          GT</p>
<p>Drawn:          1/07</p>	<p>Submitted by:          7/26/06</p>
<p>Proj. No.:</p>	<p>Comm. No.:</p>
<p>AS NOTED</p>	<p>7561-25</p>
<p>No.</p>	<p>Date</p>
<p>Description</p>	<p></p>
<p>DRAWING NO.</p>	<p><b>PV-C2</b></p>
<p>SHEET 4 OF 35</p>	<p></p>



SIEVED SAND SAMPLES						
ID#	SAMPLE	DATE	EASTING	NORTHING	GRAIN SIZE (mm)	SILT CONTENT (%)
①	CH001	6/8/2006	3777479.2	298932.0	0.11	13.8
②	CH002	6/9/2006	3777766.0	298935.9	0.10	13.3
③	CH003	6/10/2006	3777988.6	298975.3	0.10	24.0
④	CH004	6/11/2006	3778053.8	298867.1	0.11	10.3
⑤	CH005	6/13/2006	3778149.5	298868.4	0.12	12.5
⑥	CH006	6/14/2006	3778619.1	298791.2	0.11	9.9
⑦	CH007	6/15/2006	3778619.1	298791.2	0.10	18.5
⑧	CH010	6/21/2006	3777094.3	299108.6	0.09	15.5
⑨	CH013	6/28/2006	3776680.5	299066.6	0.14	7.2
⑩	CH015	7/12/2006	3777096.3	298963.2	0.12	16.2
⑪	CH020	7/17/2006	3777580.8	298497.0	0.12	15.0
⑫	CH025	8/2/2006	3776340.9	298963.8	0.11	11.3
⑬	CH027	8/4/2006	3775946.2	299158.5	0.14	10.0
⑭	CH030	8/8/2006	3777513.6	298750.7	0.11	10.5
⑮	CH035	8/20/2006	3778495.2	298527.6	0.11	13.2
⑯	CH037	8/22/2006	3779100.0	298583.2	0.12	6.5
⑰	CH040	8/27/2006	3779179.9	298046.9	0.11	20.3
⑱	CH041	9/5/2006	3779852.9	298535.2	0.13	20.6
⑲	CH042	9/6/2006	3780286.6	298053.8	0.11	15.6
⑳	CH045	9/10/2006	3781232.0	298383.2	0.11	20.1
㉑	CH046	9/11/2006	3781335.9	298475.5	0.11	22.3
㉒	CH047	9/12/2006	3781314.1	298202.5	0.12	15.3
㉓	CH050	9/26/2006	3781648.3	298243.4	0.11	13.9
㉔	CH079	11/8/2006	3781910.0	298217.9	0.18	3.9
㉕	CH080	11/8/2006	3781910.0	298217.9	0.17	11.1
㉖	CH081	11/8/2006	3781910.0	298217.9	0.12	16.9

NAVIGATION WARNING SIGNS				
ID#	STATION	EASTING	NORTHING	TOP OF PILE FT. NAVD
①	7+42	3775118	299921	11.0
②	57+20	3780144	299518	11.0
③	74+45	3781897	299658	10.8

SETTLEMENT PLATES					
ID#	STATION	EASTING	NORTHING	ELEVATION FT. NAVD	DATE PLACED
①	19+52	3776279	298965	13.2	5/31/2006
②	38+88	3778267	299279	9.8	6/10/2006
③	63+08	3780857	299810	11.5	7/8/2006
④	77+60	3782152	299150	8.3	8/4/2006

+ Sample taken 4" Below the Constructed Surface  
 \*\* Sample taken 2" Below the Constructed Surface  
 \*\*\* Sample taken 0" Below the Constructed Surface

**NOTE:**  
 1. COORDINATES SHOWN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.

- LEGEND:**
- PROJECT BASELINE
  - SAND FENCING
  - ⊕ SAND SAMPLE & ID
  - Ⓢ NAVIGATION SIGN & ID
  - ⓧ SETTLEMENT PLATE & ID

CHALAND HEADLAND RESTORATION (BA-38-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
 AS-BUILT ISLAND FEATURES

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DRAWING NO.  
**PV-11**

Prepared by: [ ]  
 Checked by: [ ]  
 Drawn by: [ ]  
 Date: 13/07  
 Plot Scale: AS NOTED

Submitted by: [ ]  
 Date: 13/07  
 Comm. No.: 726125  
 AS NOTED

Description: [ ]  
 No.: [ ]  
 Date: [ ]

SHEET 5 OF 36

MATCHLINE SEE SHEET 6

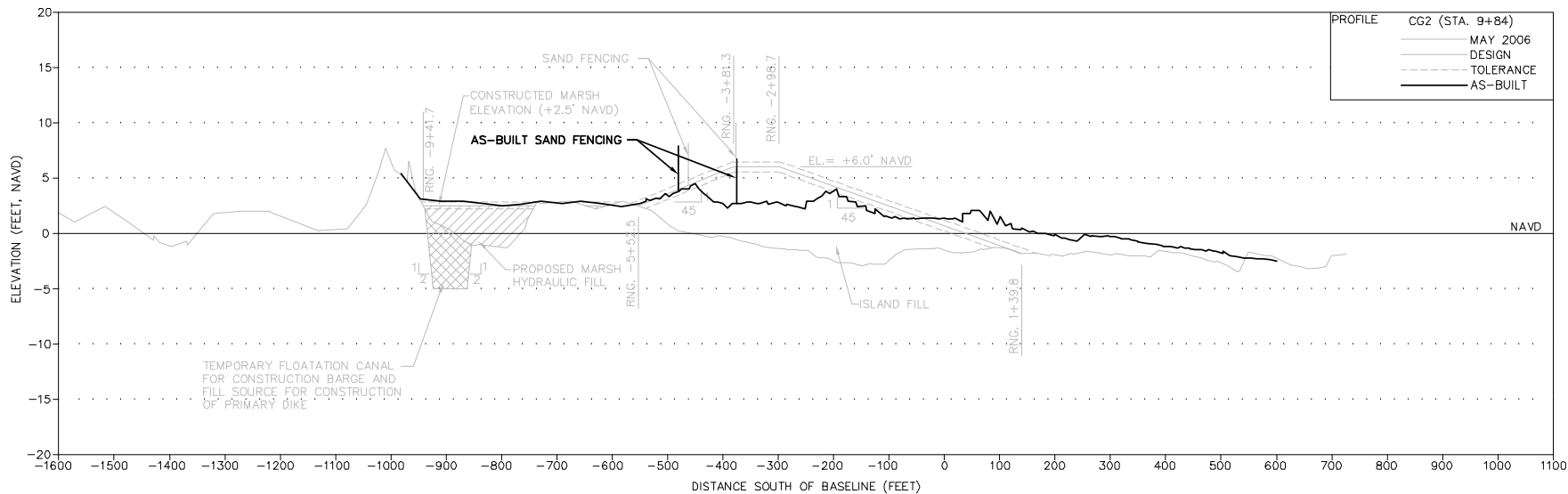
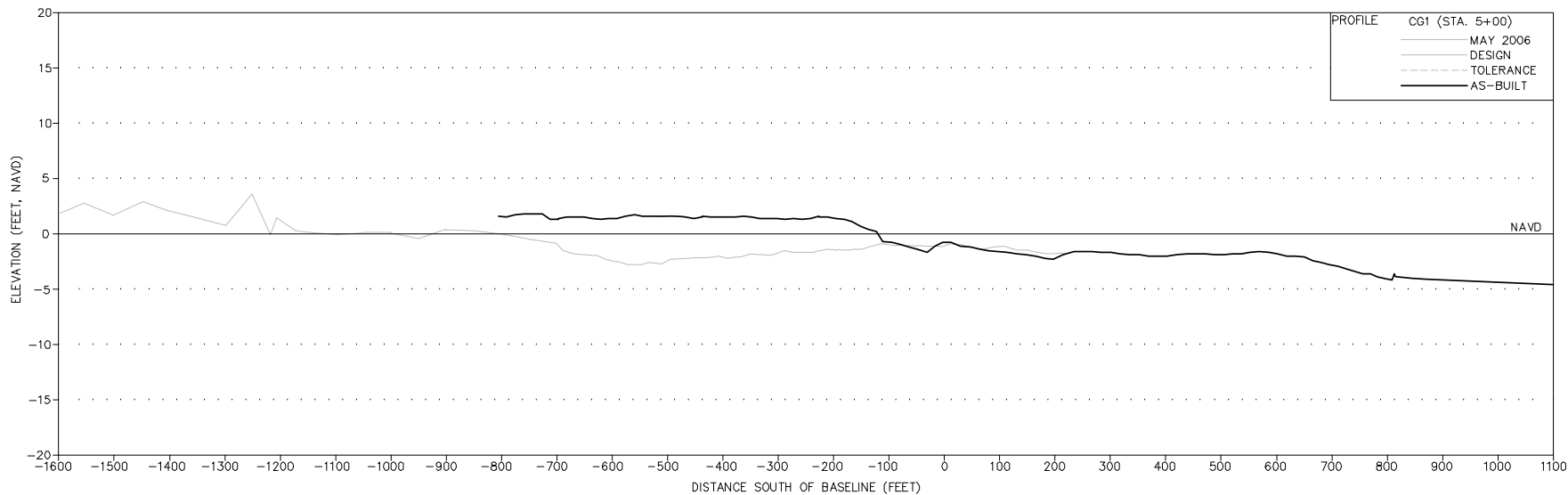








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No.	Date	Description

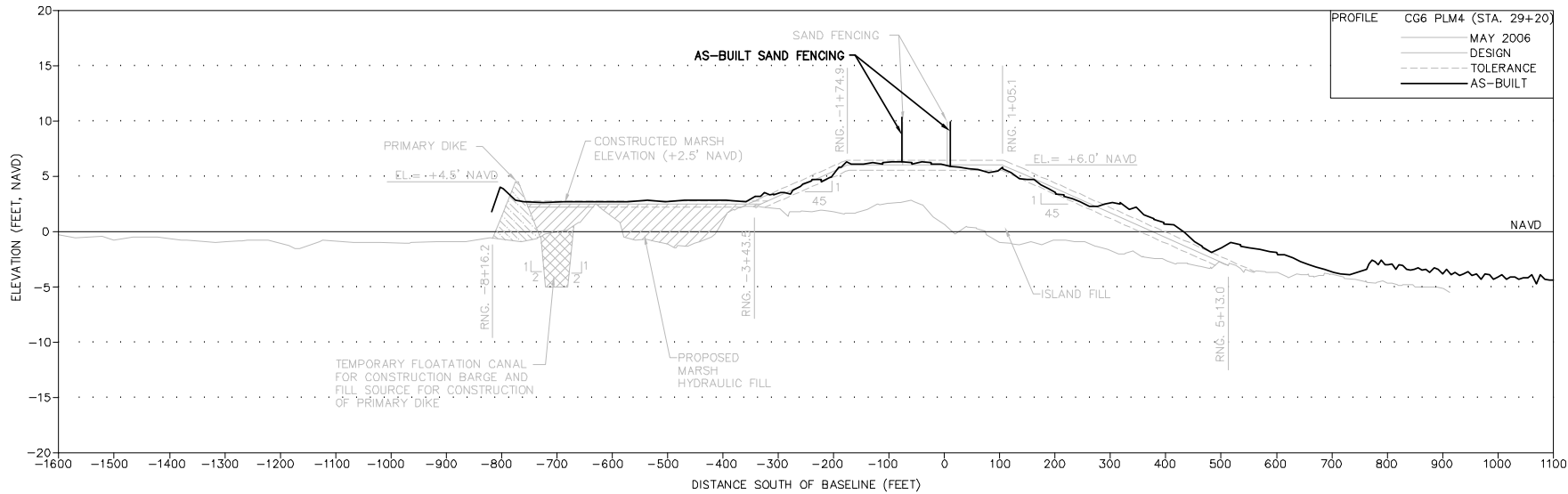
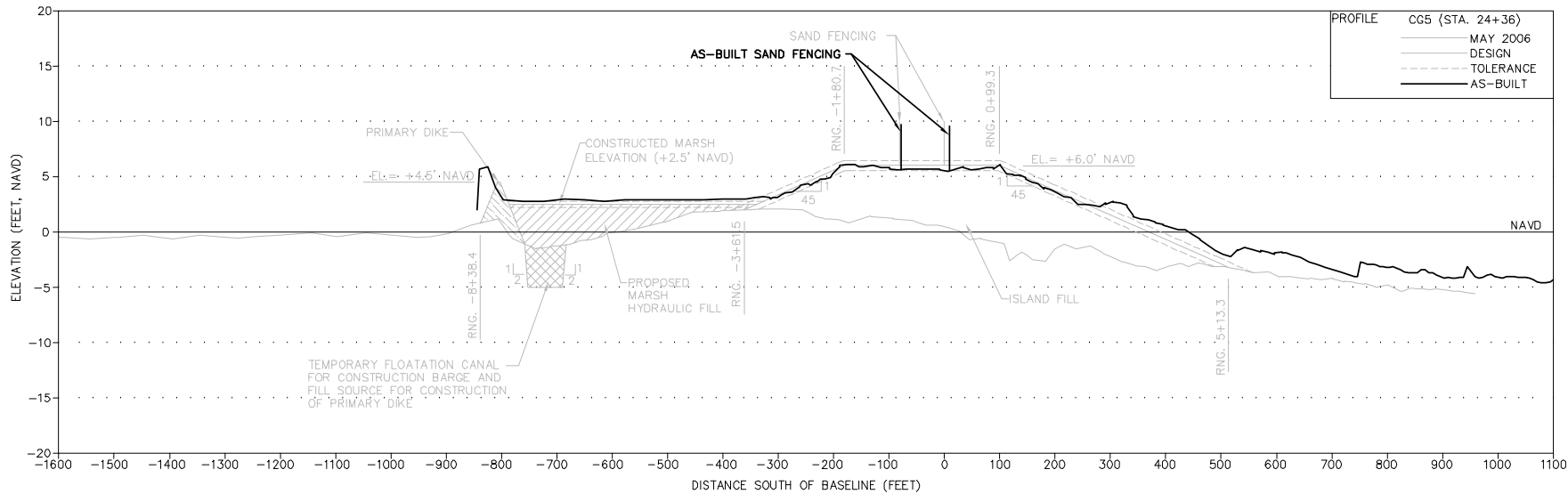
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Submitted by	Date: 11/07	Plot Scale
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CHALAND HEADLAND RESTORATION (BA-38-2)
CMPRA PROJECT - AS-BUILT DRAWINGS
AS-BUILT CROSS SECTIONS

DRAWING NO.
<b>XS-1</b>
SHEET 9 OF 35



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PROFILE CG5 (STA. 24+36)  
 — MAY 2006  
 — DESIGN  
 - - - TOLERANCE  
 — AS-BUILT

PROFILE CG6 PLM4 (STA. 29+20)  
 — MAY 2006  
 — DESIGN  
 - - - TOLERANCE  
 — AS-BUILT

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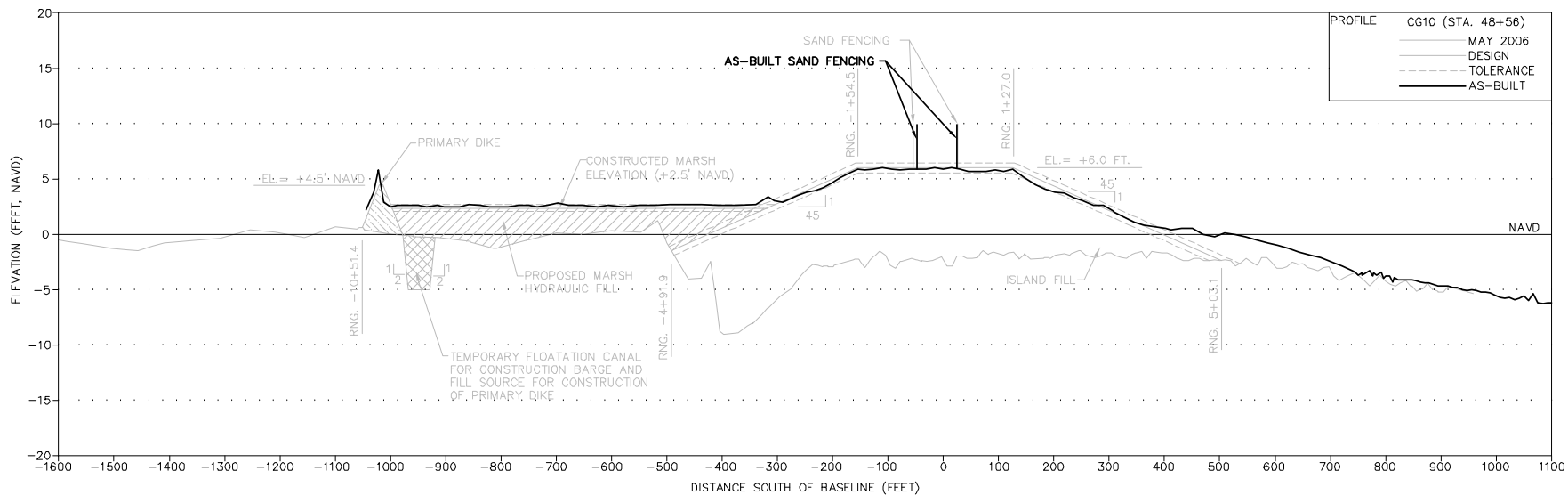
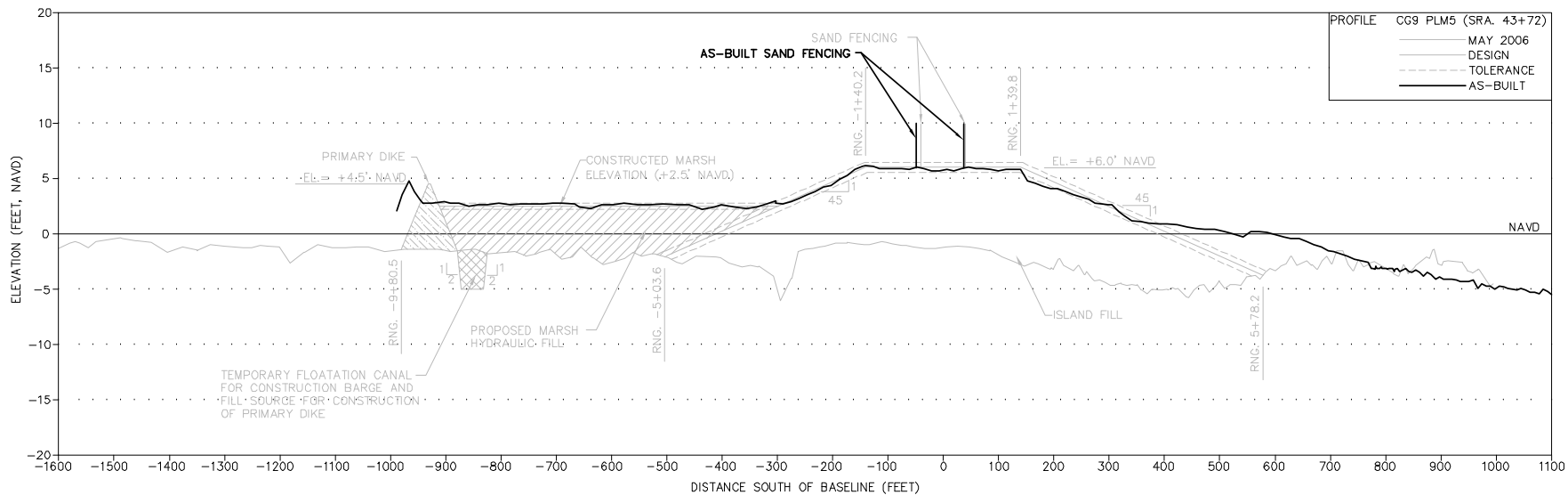
Revised By	Revised Date	Description

CHALAND HEADLAND RESTORATION  
 (BA-3B-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
 AS-BUILT  
 CROSS SECTIONS

DRAWING NO.  
**XS-3**  
 SHEET 11 OF 35



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No.	Date	Description

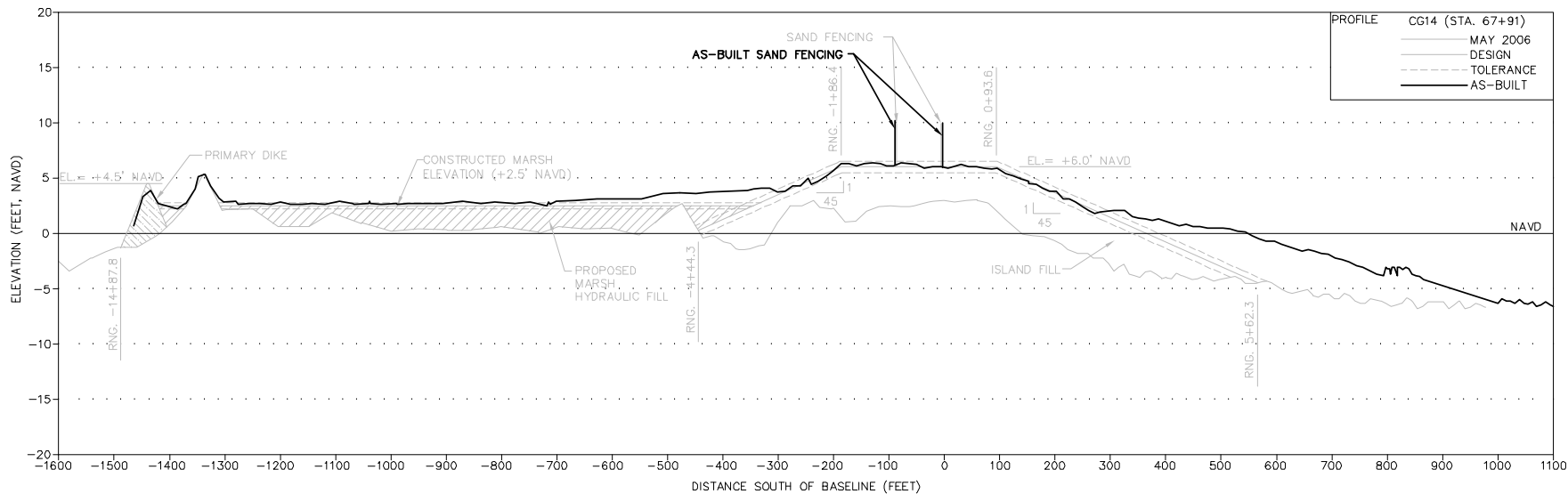
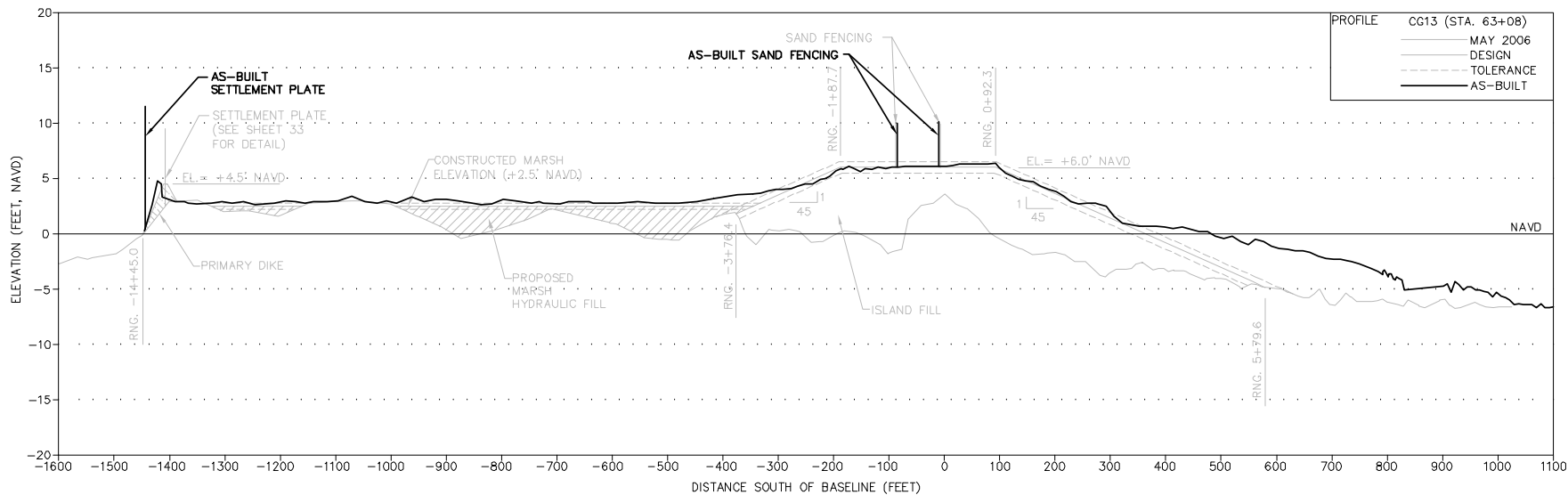
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CHALAND HEADLAND RESTORATION  
 (BA-38-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
**AS-BUILT  
 CROSS SECTIONS**

DRAWING NO.  
**XS-5**  
 SHEET 13 OF 35



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No.	Date	Description

Checked by	Designed by	Reviewed by	Submitted by
DT	DR	DR	DR
Date: 11/13/07	Proj. No:	726125	AS NOTED

CHALAND HEADLAND RESTORATION  
 (BA-38-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
**AS-BUILT CROSS SECTIONS**







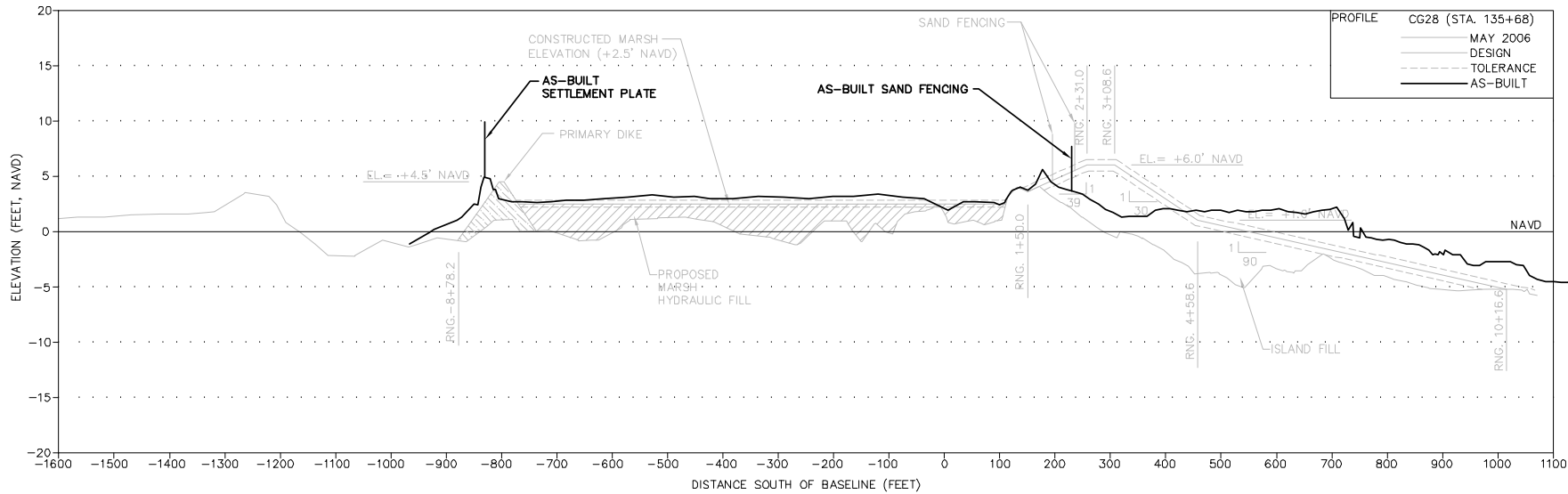
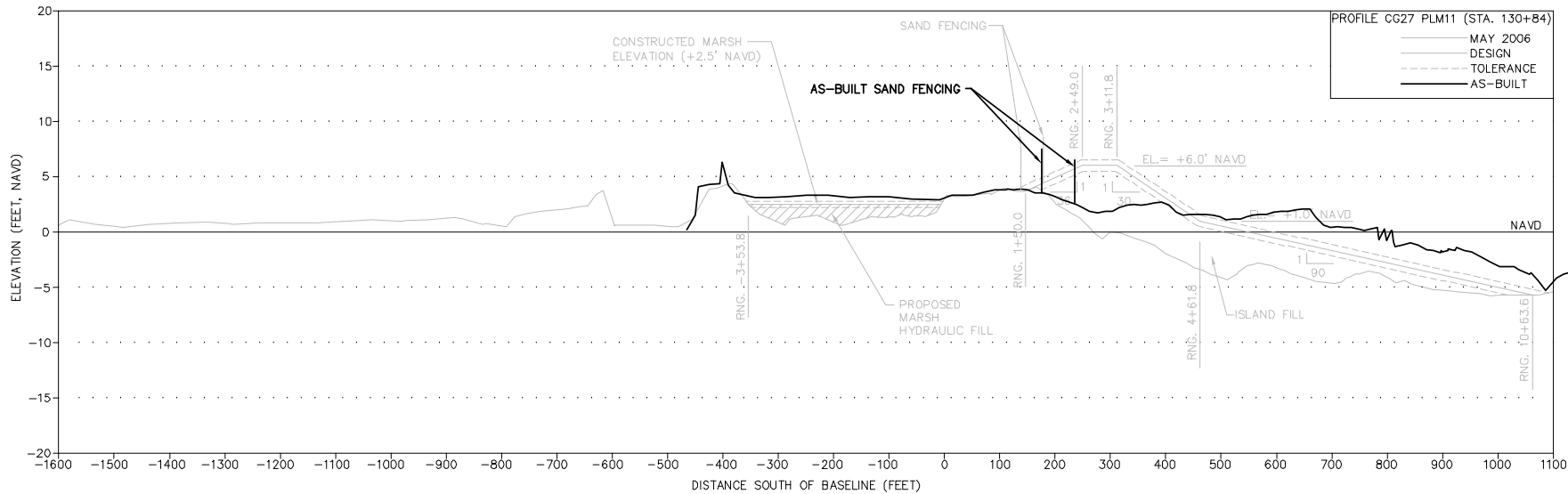








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 C.O.A. LA #2331  
 www.CoastalPlanning.net

No.	Date	Description

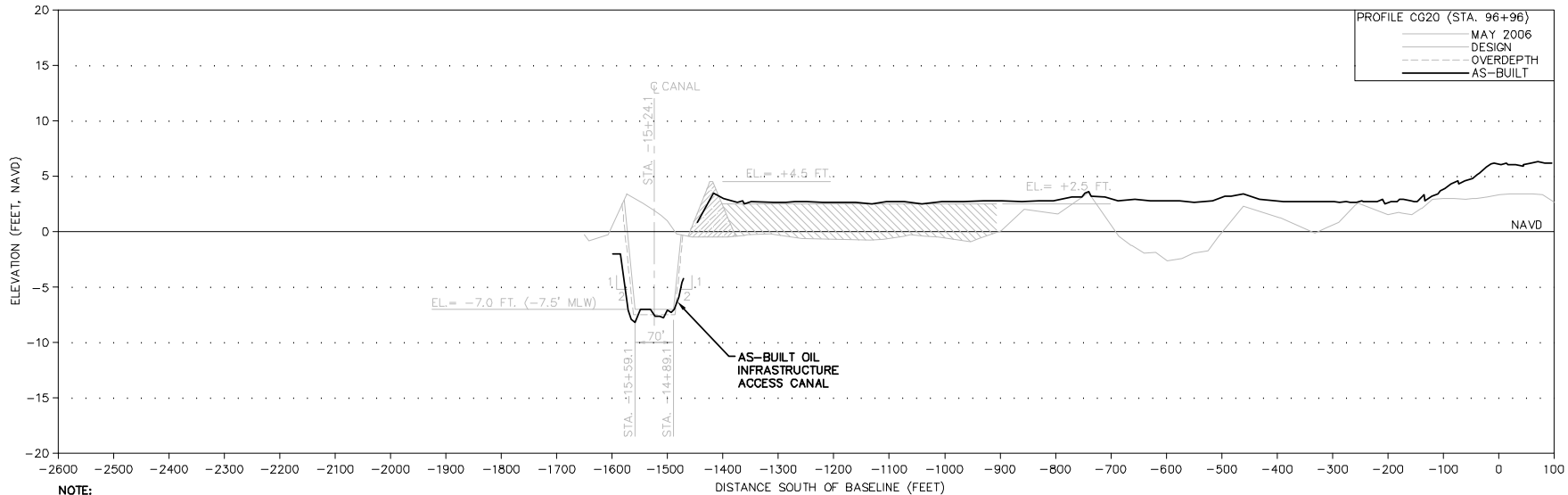
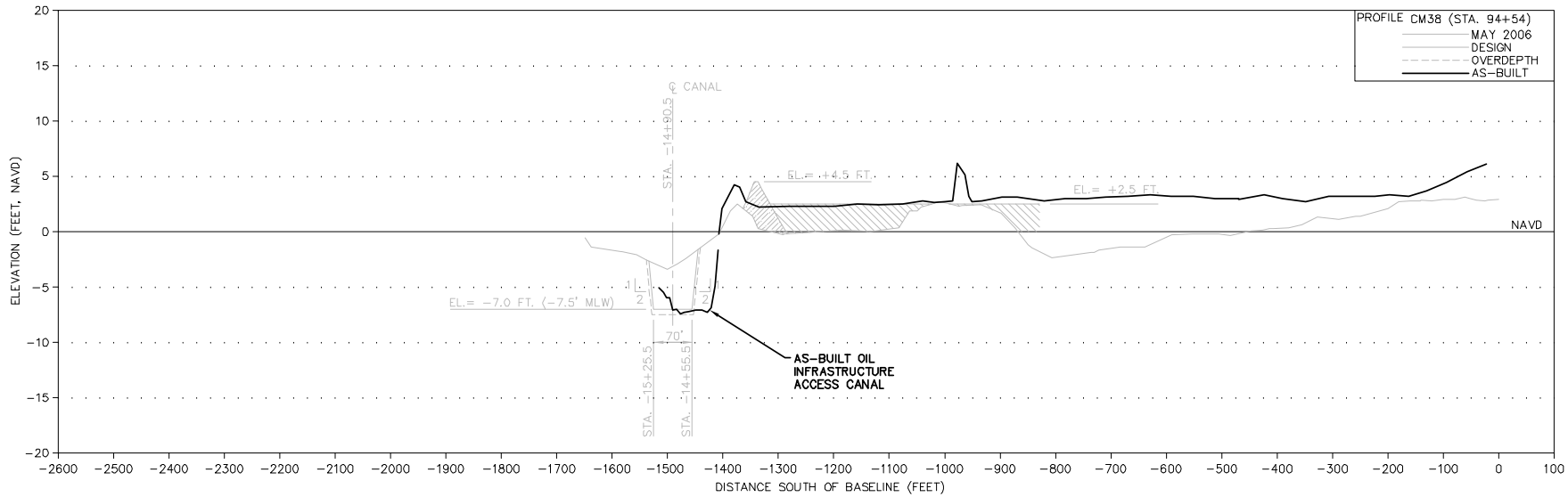
Checked by	Designed by
Reviewed by	Drawn by
DT	RC
Submitted by	Date
PLM	13/07
Proj. No.	726125
Comm. No.	AS NOTED

CHALAND HEADLAND RESTORATION  
 (BA-38-2)  
 CWPRA PROJECT - AS-BUILT DRAWINGS  
 AS-BUILT  
 CROSS SECTIONS

DRAWING NO.  
**XS-14**  
 SHEET 22 OF 35



H:\Users\jrb\Documents\CHALAND CANAL\3-SECTION\Draw - Apr 18, 2007 8:10:00am - 1.mxd



**NOTE:**  
 1. THIS SHEET IS ONLY INTENDED TO SHOW OIL INFRASTRUCTURE ACCESS CANAL DETAIL. PRIMARY DIKE AND MARSH SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

**COASTAL PLANNING & ENGINEERING, INC.**  
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 BOCCA RATON, FLORIDA 33431  
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 FAX (851) 391-8116  
 C.O.A. FL #4928  
 C.O.A. LA #2331  
 www.CoastalPlanEng.net



Revisions	Drawn by	Checked by	Revised by	Submitted by	No.	Date	Description

CHALAND HEADLAND RESTORATION  
 (BA-38-2)  
 CMPFRA PROJECT - AS-BUILT DRAWINGS  
**AS-BUILT CROSS SECTIONS**

DRAWING NO.  
**XS-16**  
 SHEET 24 OF 25







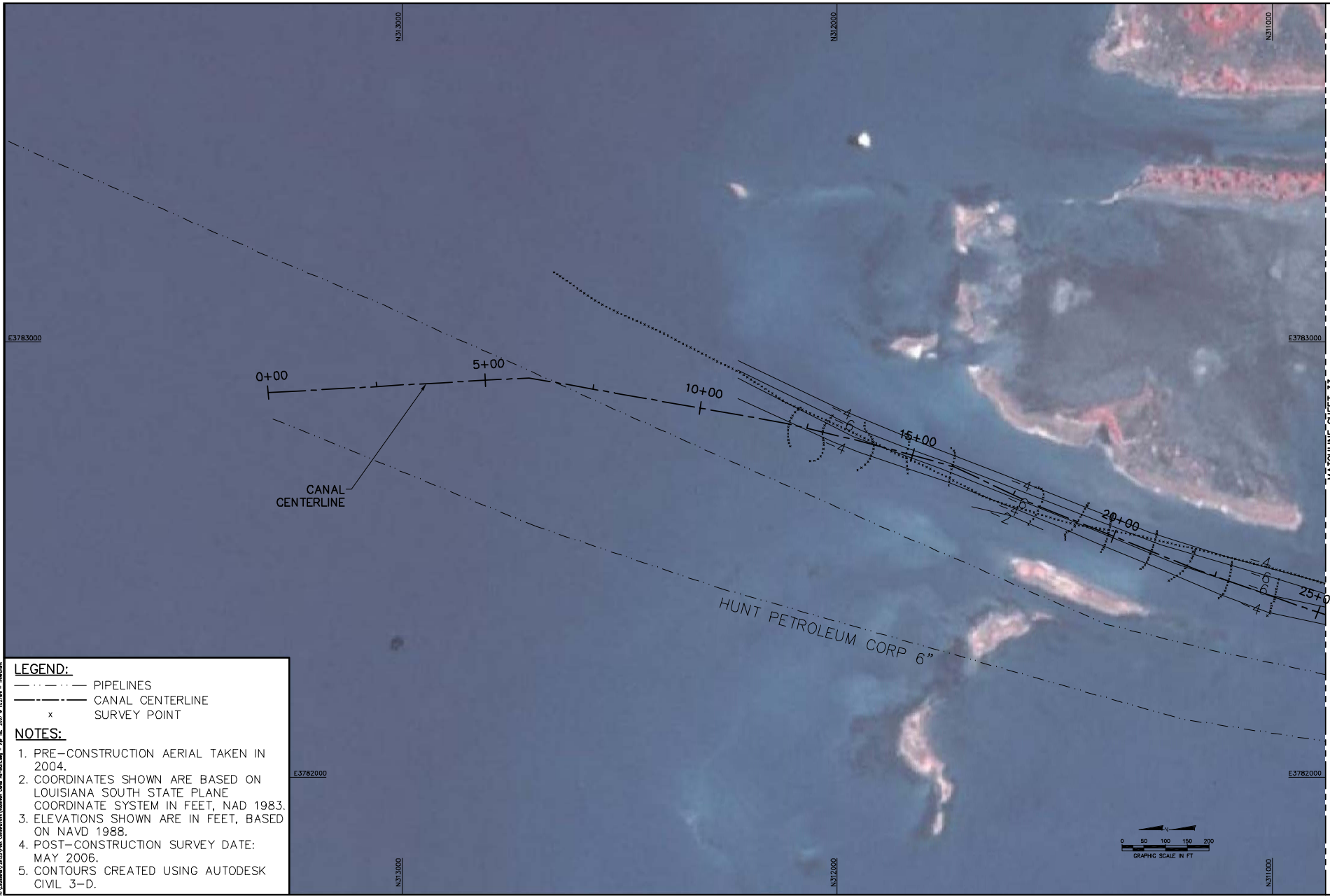






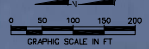






**LEGEND:**  
 - - - - - PIPELINES  
 - - - - - CANAL CENTERLINE  
 x SURVEY POINT

**NOTES:**  
 1. PRE-CONSTRUCTION AERIAL TAKEN IN 2004.  
 2. COORDINATES SHOWN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.  
 3. ELEVATIONS SHOWN ARE IN FEET, BASED ON NAVD 1988.  
 4. POST-CONSTRUCTION SURVEY DATE: MAY 2006.  
 5. CONTOURS CREATED USING AUTODESK CIVIL 3-D.



MATCHLINE SHEET 33

Checked by: AB	Designed by: CT	Reference File: substructure
Approved by: CT	Drawn by: AW	CHILAND HEADLAND RESTORATION (BA-38-2)
Submitted by: AW	Date: 4/13/07	CMPRA PROJECT - AS-BUILT DRAWINGS
No.: 720125	AS NOTED	AS-BUILT ROBINSON CANAL CONTOURS

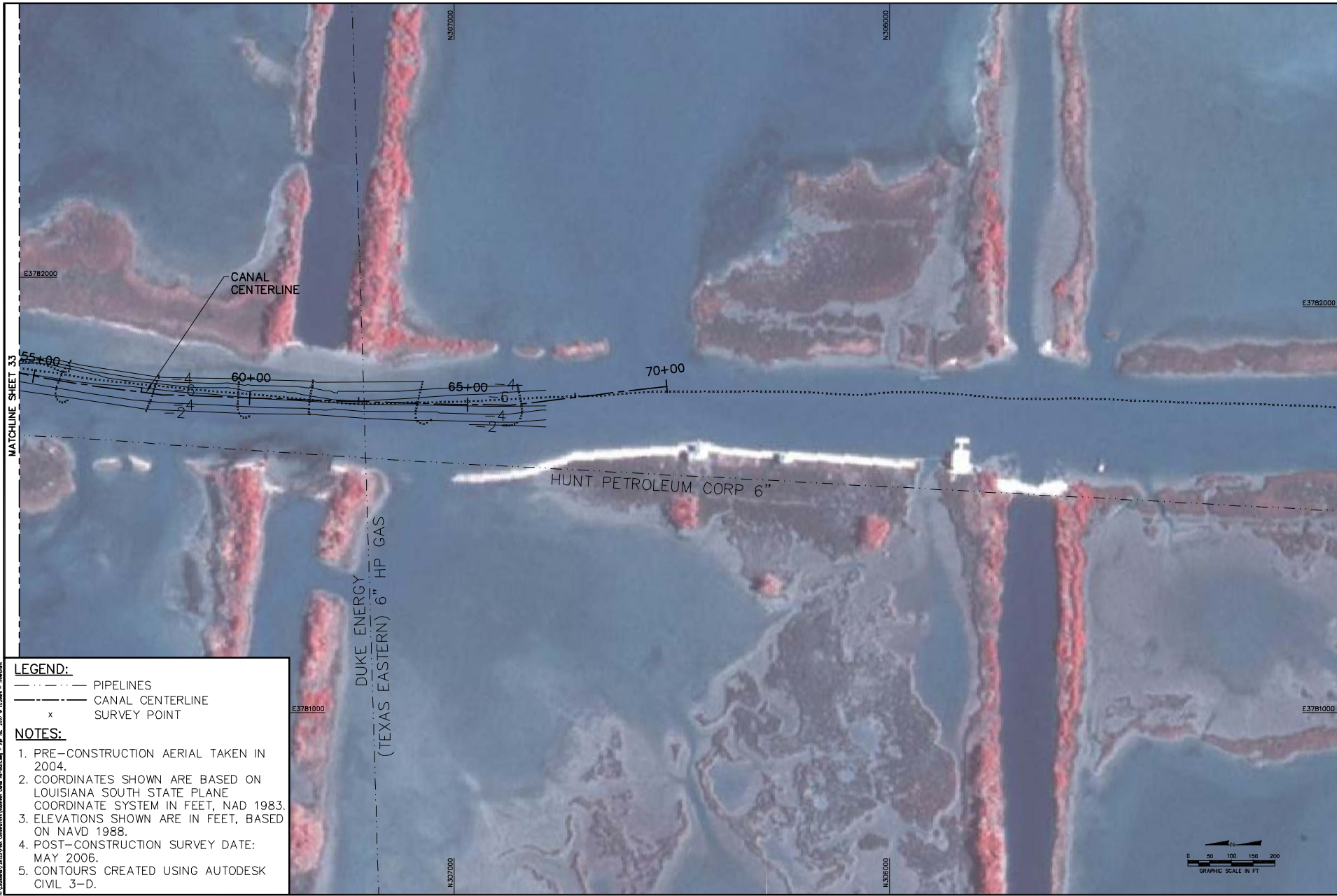
DRAWING NO.  
**CR-1**

SHEET 32 OF 35

**CPE COASTAL PLANNING & ENGINEERING, INC.**  
 2481 N.W. BOCA RATON BOULEVARD  
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 C.O.A. LA #2231  
 www.CoastalPlanning.net







**LEGEND:**  
 - - - - - PIPELINES  
 - - - - - CANAL CENTERLINE  
 x SURVEY POINT

**NOTES:**  
 1. PRE-CONSTRUCTION AERIAL TAKEN IN 2004.  
 2. COORDINATES SHOWN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.  
 3. ELEVATIONS SHOWN ARE IN FEET, BASED ON NAVD 1988.  
 4. POST-CONSTRUCTION SURVEY DATE: MAY 2006.  
 5. CONTOURS CREATED USING AUTODESK CIVIL 3-D.

<b>COASTAL PLANNING &amp; ENGINEERING, INC.</b> 2481 N.W. BOCA RATON BOULEVARD BOCA RATON, FLORIDA 33431 P.H. (861) 394-0102 FAX (861) 394-9118 C.O.A. #146329 C.O.A. I.A. #2331 <a href="http://www.CoastalPlanning.net">www.CoastalPlanning.net</a>	
Checked by:	AB
Designed by:	CT
Drawn by:	CT
Date:	4/13/07
Submitted by:	AW
Project No.:	7280.23
AS NOTED	
Reference File:	
Subcontractor:	
CHILAND HEADLAND RESTORATION (BA-28-2)	
CMPRA PROJECT - AS-BUILT DRAWINGS	
AS-BUILT ROBINSON CANAL CONTOURS	
DRAWING NO.	<b>CR-3</b>
SHEET 34 OF 35	

