

BORROW AREA VI-E
TOTAL VOLUME = 4,541,000 CY

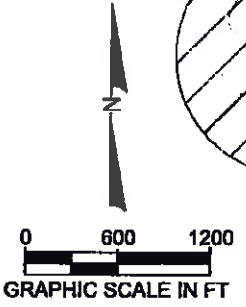
GULF OF MEXICO

**CAPTIVA ISLAND RENUIRSHMENT
LEE COUNTY, FLORIDA
BORROW AREA VI-E BATHYMETRY**

- NOTES:**
1. DATE OF BATHYMETRIC SURVEY: COMBINED CPE 2000 AND HYATT 2008.
 2. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
 3. ELEVATIONS ARE IN FEET BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

LEGEND:

◊ CVC-00-35 2000 CPE VIBRACORE
 ○ 200M HARDBOTTOM
 [Hatched Area] HARDBOTTOM BUFFER



**NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY**

STATE OF FLORIDA
 MELANY LARENAS, P.E., No. PG2397

2/17/2012
DATE

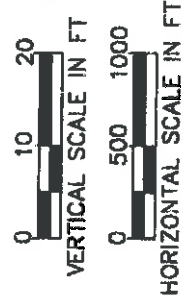
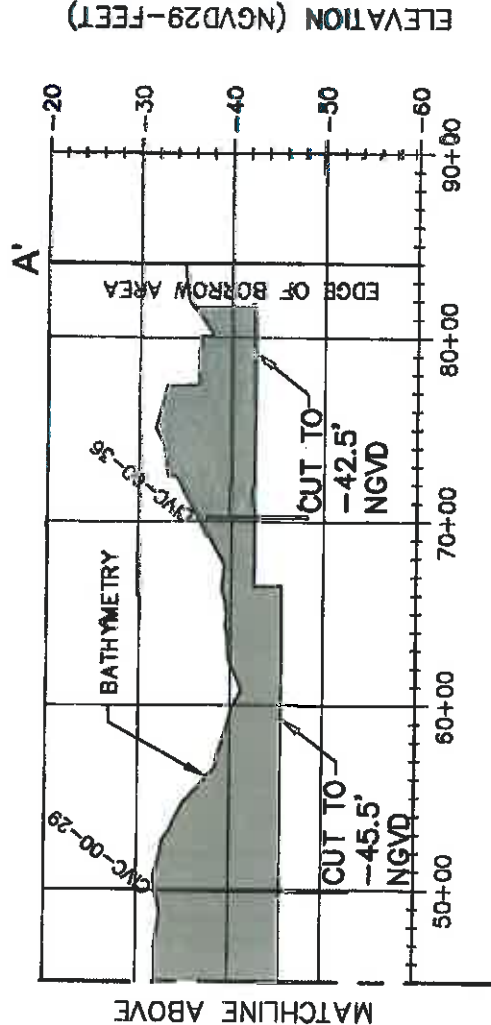
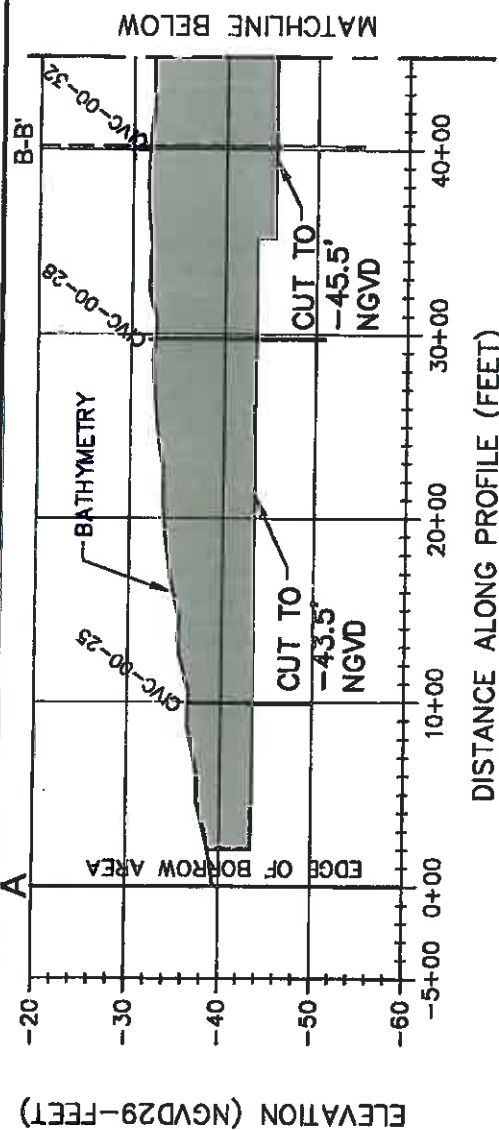
REVISIONS			
DATE	BY	DESCRIPTION	KD
021612	KD	BA UPDATE	

TITLE:
COASTAL PLANNING & ENGINEERING, INC.
 101 WEST BAYVIEW AVENUE, SUITE 100
 MIAMI BEACH, FLORIDA 33139
 WWW.COASTALPLANNING.COM

DATE: 10/25/11
 BY: [Signature]
 COMM NO.: 8402.84
 SHEET: 1 OF 3

P:\Lee\Captiva & Sanibel\8402.84 Captiva Island 2013_Renuirshment\CAD\PERMIT\BAVI-E_PV_XS.dwg - Feb 17, 2012 @ 9:14am - Kristina.Dennis

P:\Lee\Captiva & Sanibel\9402.84_Captiva Island_2013_Renourishment\CAD\PERMIT\BAVE-PV_XS.dwg - Feb 17, 2012 @ 8:15am - Kristling.Dennis



- NOTES:**
1. CONES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
 2. ELEVATIONS ARE IN FEET BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
 3. SEE SHEET 1 FOR LOCATION OF CROSS SECTION LINES.

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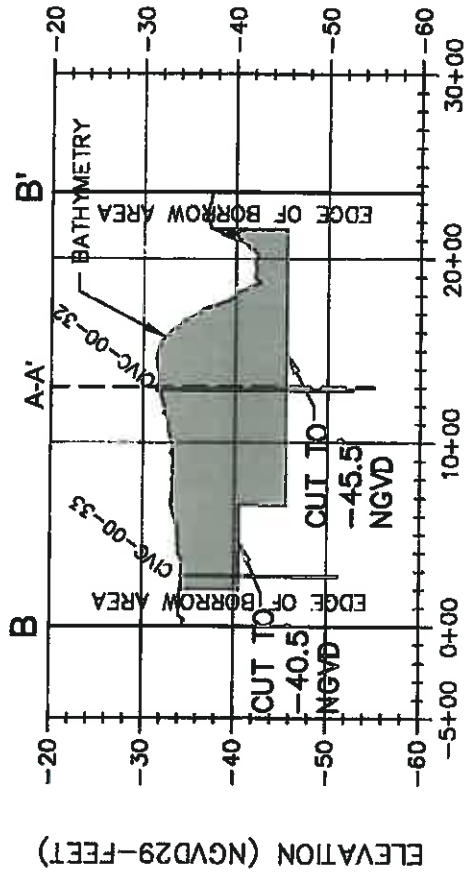
MELANY LARENAS, P.E.
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 102397
DATE: 2/17/2016

DATE	BY	DESCRIPTION
02/16/12	KD	SA UPDATES

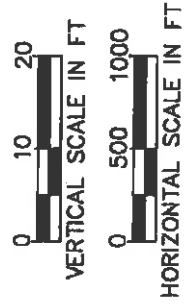
DATE: 10/25/11
BY: KJ
COMM NO.: 8402.84
SHEET: 2 OF 3

CAPTIVA ISLAND RENOURISHMENT
LEE COUNTY, FLORIDA
BORROW AREA VIE CROSS SECTION A-A'

COASTAL PLANNING & ENGINEERING, INC.
2001 N.W. BOCA RATON BOUL AVENUE
BOCA RATON, FLORIDA 33431
www.CoastalPlanning.com
P.L. 0001 301-4163
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E.S.A. FL 00009



DISTANCE ALONG SECTION (FEET)



- NOTES:**
1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
 2. ELEVATIONS ARE IN FEET BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
 3. SEE SHEET 1 FOR LOCATION OF CROSS SECTION LINES.

**CAPTIVA ISLAND RENOURISHMENT
LEE COUNTY, FLORIDA
BORROW AREA V-E CROSS SECTION B-B'**

COASTAL PLANNING & ENGINEERING, INC.
2401 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
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DATE: 10/25/11
BY: KD
COMM NO.: 8402.84
SHEET: 3 OF 3

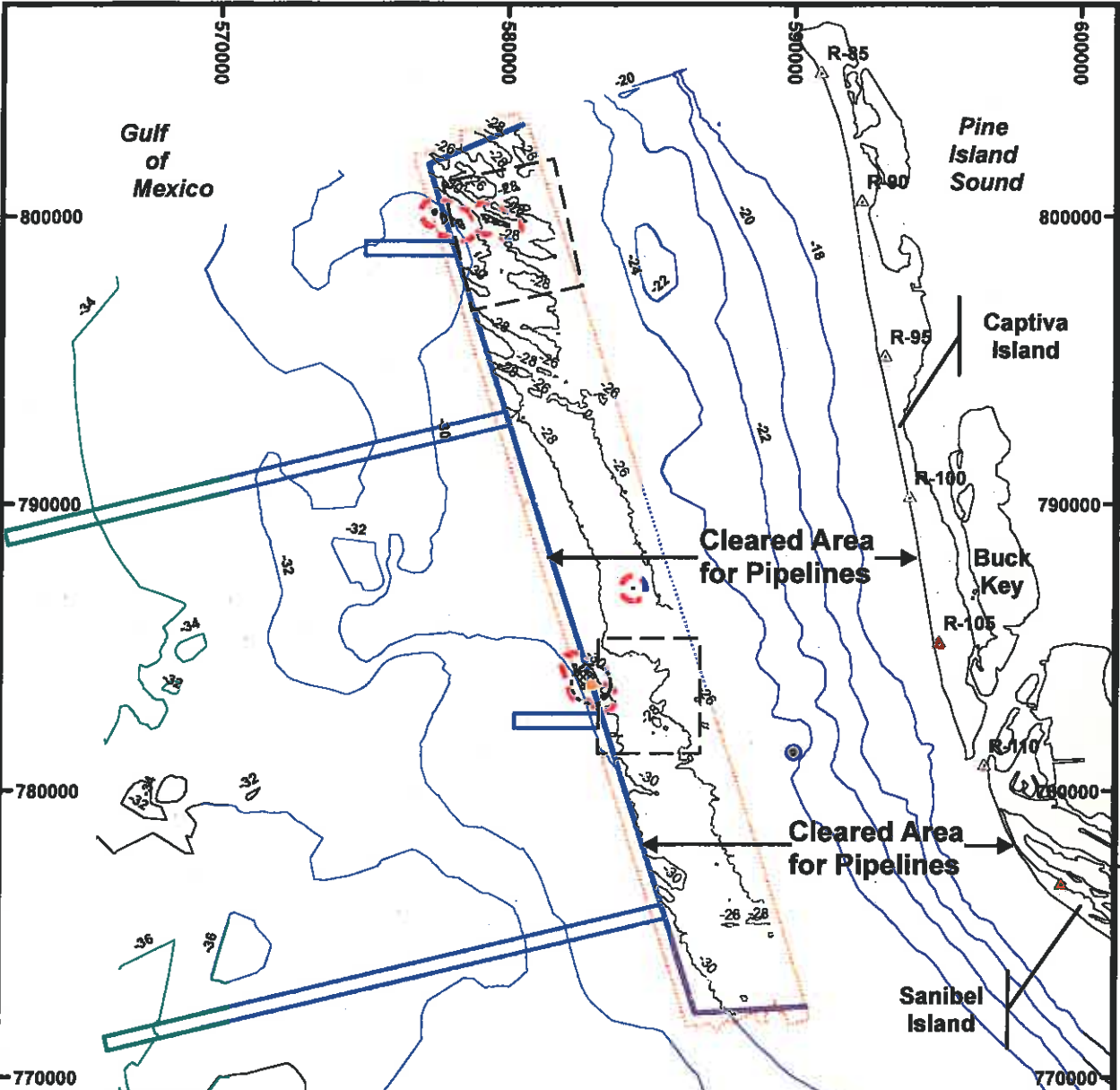
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FOR REGULATORY REVIEW ONLY**



MELANY LARENAS, P.E. NO. 62397
STATE OF FLORIDA
NATIONAL BOARD OF PROFESSIONAL ENGINEERS

2/17/2012
DATE

REVISIONS		
DATE	BY	DESCRIPTION
02/16/12	KD	BA UPDATES



Legend:

- △ FDEP Monuments
- 2003 Diver Verified Hardbottom
- ▨ 2011 Sidescan Sonar Interpreted Hardbottom Features
- Currently Permitted Rehandling Areas
- ⊕ Hardbottom Resource 400' Buffer
- ⊙ Sunken Barge with 250' Buffer
- Currently Permitted Pipeline Corridors
- ~ 2011 CPE Bathymetry
- ~ Historical Bathymetry
- Cleared Area Offshore Boundary
- ▨ Captiva 2011 Sidescan Area

Notes:

1. Coordinates are in feet based on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983 (NAD 83).
 2. Depths are referenced in feet to NAVD88.
 3. Geophysical and bathymetric surveys performed by CPE on August 13-15, 2011.
 4. Details of geophysical investigation can be found in *Geophysical Survey for Permitting/Expanding Pipeline Corridor*, November 2011.
 5. This figure is a revision of the 2003 permit sketch sheet 67.
 6. Historical bathymetry shown is a combination of the following data sources:
 - A. Blind Pass Shoal Survey: October 1993.
 - B. Captiva/Sanibel 2 Year Surveys: October 1993.
 - C. Redfish Pass Shoal Survey: April 1991.
 - D. Captiva/Sanibel Offshore Survey: October 1993.
- Except for the buffered areas, the entire cleared area is open as a pipeline corridor.

G:\Enterprise\Lee\143478_Captiva_Erosion_Prevention\Mxd\Geophysical Results.mxd

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For Regulatory Review Only

STEPHEN KEHN
Professional Engineer
No. 34857
FLORIDA ENGINEER

Stephen Kehn P.E. NO. 34857

HGR
Date

TITLE: Captiva and Sanibel Islands Renourishment Project Pipeline Corridor and Cleared Area

COASTAL PLANNING & ENGINEERING,
A SHAW GROUP COMPANY
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BOCA RATON, FL 33431 FAX (561) 391-9116



DATE:
11/01/11

BY:
HMV

COMM NO.:
143478

SHEET:
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