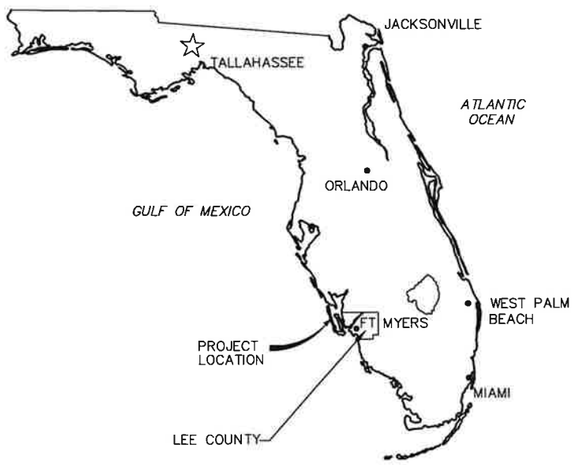
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
LEE COUNTY, FLORIDA



CAPTIVA EROSION PREVENTION DISTRICT (CEPD) COMMISSIONERS

JOHN WADE	CHAIRMAN	SEAT 4
LINDA LAIRD	SECRETARY	SEAT 1
RENE' MIVILLE	VICE CHAIRMAN	SEAT 2
BOB WALTER	COMMISSIONER	SEAT 3
RICHARD PYLE	TREASURER	SEAT 5

INDEX TO SHEETS

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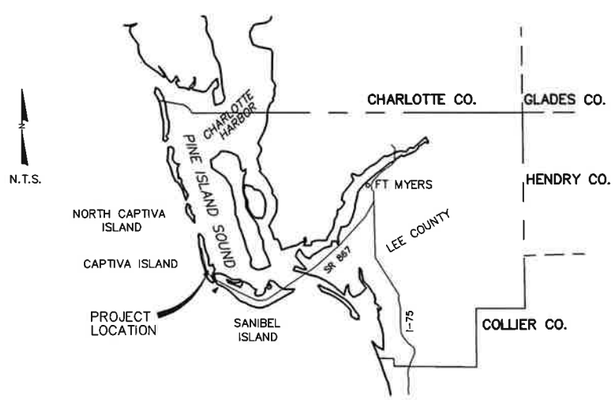
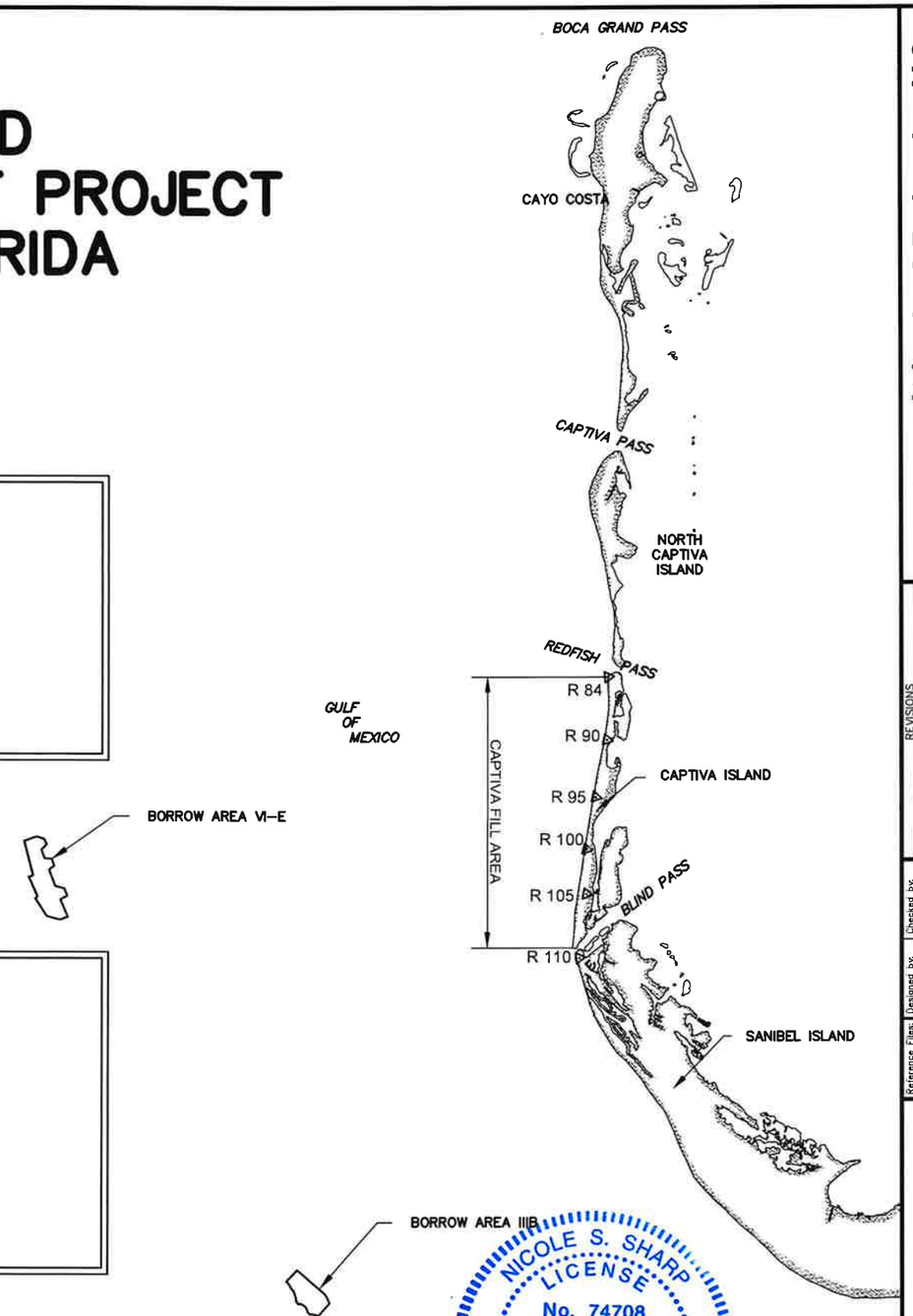
19	BORROW AREA VI BATHYMETRY
20	BORROW AREAS CROSS SECTIONS
21	PIPELINE CORRIDOR LOCATION





NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B–41, F.A.C.

NICOLE S. SHARP P.E. NO. 74708 — DATE 3/1/24

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C.O.A. LA. #2531

REVISIONS: No. | Date | Description

Reference Files:
Designed by: EB
Drawn by: EB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NS
Submitted by: EB
Contr. No.: 535034949

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
COVER SHEET

DRAWING NO.
CS–1

SHEET 1 OF 21

R–MONUMENT TABLE

MONUMENT	NORTHING	EASTING	AZIMUTH
R–84	806156.50	590358.97	260
R–84.6	805709.08	590593.48	260
R–85	805045.75	590873.63	260
R–86	804327.96	591289.81	260
R–87	803395.34	591877.36	260
R–88	802447.71	591975.79	260
R–89	801502.84	592366.35	260
R–90	800577.33	592289.35	260
R–91	799599.40	592337.28	260
R–92	798516.83	592604.84	260
R–93	797618.18	592686.79	260
R–94	796093.82	592950.32	260
R–95	795200.40	593116.98	260
R–96	794192.62	593295.65	260
R–97	793313.31	593457.31	260
R–98	792251.81	593675.80	260
R–99	791324.81	593902.80	260
R–100	790281.60	593998.31	260
R–101	789308.91	594171.86	260
R–102	788157.42	594495.55	260
R–103	787342.11	594664.03	260
R–104	786331.74	594822.00	260
R–105	785234.41	595037.13	260
R–106	784350.78	595542.25	260
R–107	783251.82	595470.49	260
R–108	782037.27	595961.74	260
R–109	781249.23	596320.30	260

NOTE:

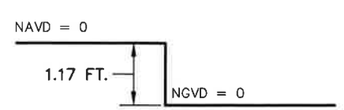
PHYSICAL MONUMENTS MAY NOT BE PRESENT AT ALL LOCATIONS. ADDITIONAL CONTROL MAY BE PRESENT IN THE FIELD. VALUES REPRESENTING THE PROFILE COMMENCEMENT LOCATION MAY VARY FROM PUBLISHED VALUES.

CONTROL MONUMENT USED BY APTIM FOR CAPTIVA ISLAND JUNE 2023	
DATUMS: NAD83/2011 / NAVD1988 (U.S. SURVEY FEET)	
Designation	L014
Stamping	12-81-A47-2
Northing	802456.46
Easting	591852.51
Horizontal Root Mean Square Error	0.11
Elevation	5.28
Vertical Root Mean Square Error	0.04
Description	Being a Florida Department of Natural Resources disk in a dune 1 foot below the ground's surface and located in the rear of 1056 South Seas Plantation Road. Being approximately 10 feet North of a sand walking path to the beach and 123 feet West of R-88

CONTROL MONUMENT USED BY APTIM FOR CAPTIVA ISLAND JUNE 2023	
DATUMS: NAD83/2011 / NAVD1988 (U.S. SURVEY FEET)	
Designation	L230
Stamping	"US COAST & GEODETIC SURVEY 1965 NO 1"
Northing	780464.89
Easting	597100.29
Horizontal Root Mean Square Error	0.14
Elevation	3.25
Vertical Root Mean Square Error	0.14
Description	Being a USCGS disk in concrete and located at the Southwest cornerof Castaways Beach & Bay Cottages office building (6460 Sanibel-Captiva Road). Being 45 feet East of Sanibel-Captiva Road centerline. 7.5 feet Southwest of the Southwest corner of the office building and being in the concrete base of the most Westerly rafter.

NOTE:

NGVD RELATED TO NAVD AT R–92



NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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NICOLE S. SHARP P.E. NO. 74708

3/1/24
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REVISIONS

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Date: 01/05/24 | Submitted by: EB
Plot Scale: AS NOTED | Cpm. No.: 636034949

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

CONTROL DATA SHEET

DRAWING NO.
CD–1

P:\Live\Captiva & Sanibel\636034949 2023 Captiva Pre-Con\CAD\636034949_CAPTIVA_CD.dwg – Jan 05, 2024 @ 3:18pm – Julius Bonati

NOTES:

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LEGEND:

△ R-83 FDEP MONUMENTS

× APTIM INTERMEDIATE PROFILE

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Submitted by: EB
Comm. No: 538034949

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
PLAN VIEW

DRAWING NO.
PV-1

SHEET 3 OF 21

NOTES:

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LEGEND:

R-83 FDEP MONUMENTS

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CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
PLAN VIEW

DRAWING NO.
PV-2

SHEET 4 OF 21

NOTES:

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R-83 FDEP MONUMENTS

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Plot Scale: AS NOTED	Comm. No.: 636034949		

Reference Files:

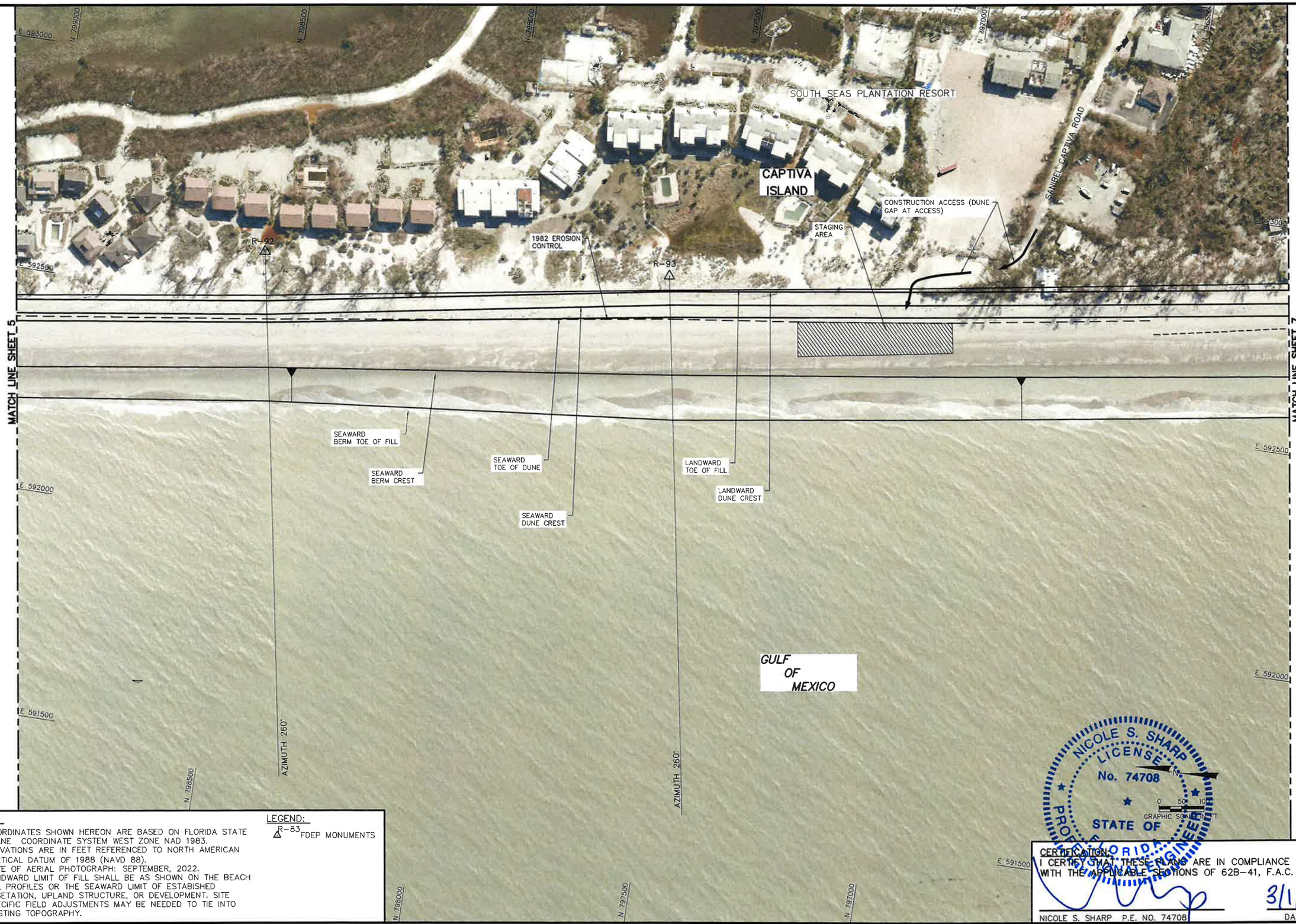
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

PLAN VIEW

DRAWING NO.

PV-3

SHEET 5 OF 21



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No.	Date	Description
1	12/07/12	POST TROPICAL STORM DEBBY UPDATES
2	10/8/13	R-93 AND R-94 UPDATE

REVISIONS

Reference Files:

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CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

PLAN VIEW

DRAWING NO.

PV-4

SHEET 6 OF 21

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LEGEND:

R-83 FDEP MONUMENTS

× APTIM INTERMEDIATE PROFILE

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REVISIONS		
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Plot Scale: AS NOTED
Checked by: EB
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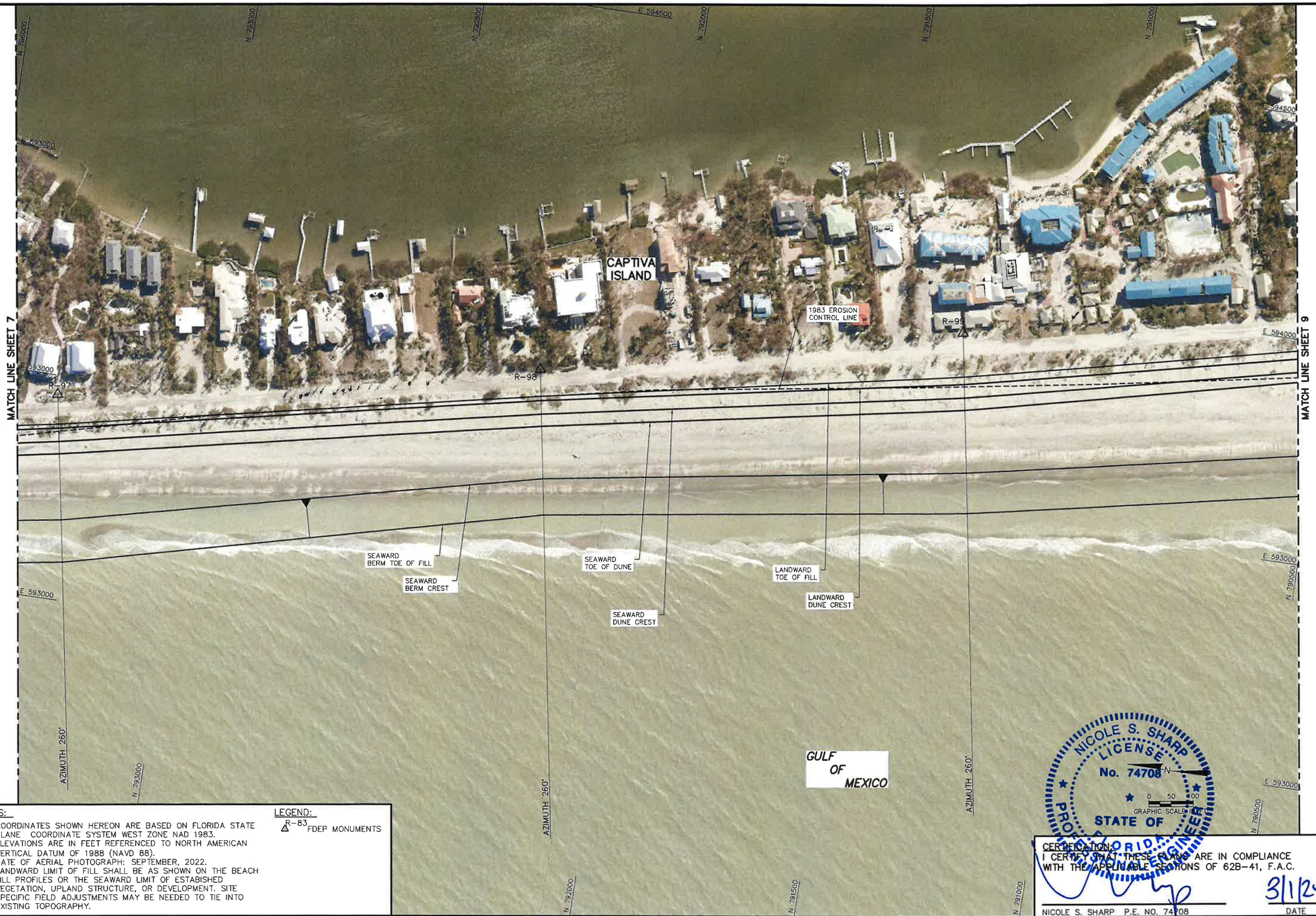
Submitted by: EB
Comm. No: 6.36034949

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

PLAN VIEW

DRAWING NO.
PV-5



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Reference Files:

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

PLAN VIEW

DRAWING NO.
PV-6

SHEET 8 OF 21

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CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
PLAN VIEW

DRAWING NO.
PV-7

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CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

PLAN VIEW

DRAWING NO.

PV-8

SHEET 10 OF 21

NOTES:

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CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
PLAN VIEW

DRAWING NO.
PV-9

SHEET 11 OF 21

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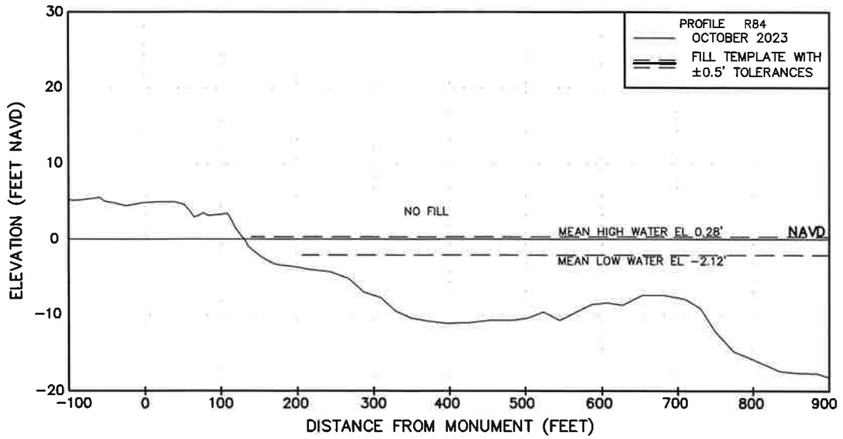
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

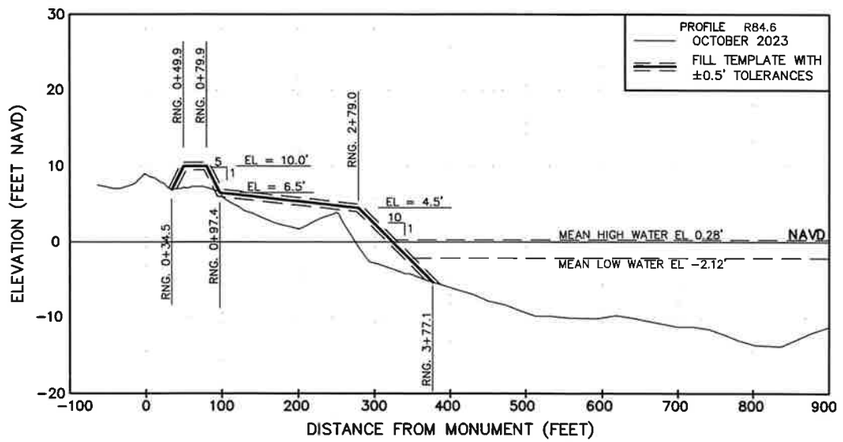
PLAN VIEW

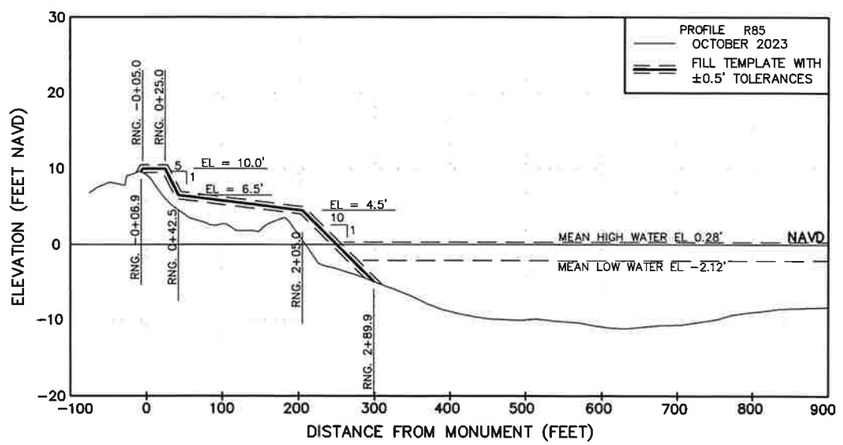
DRAWING NO.

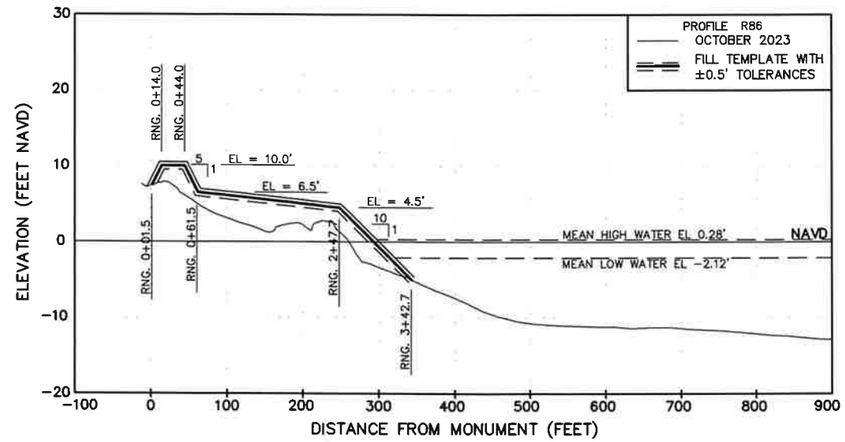
PV-10

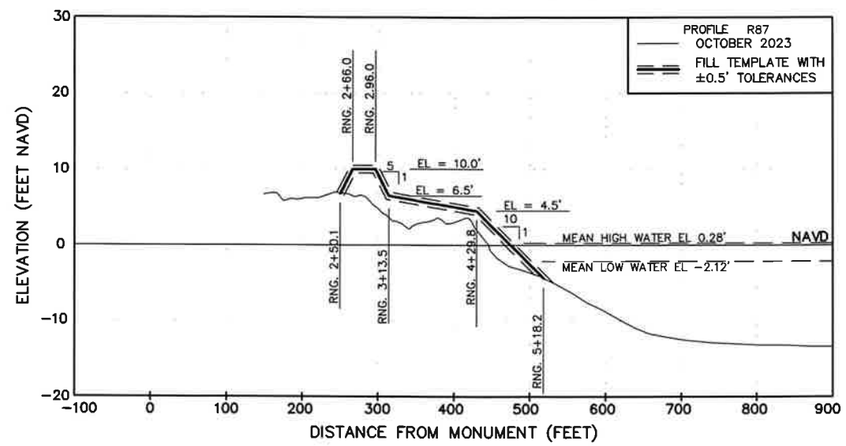
SHEET 12 OF 21

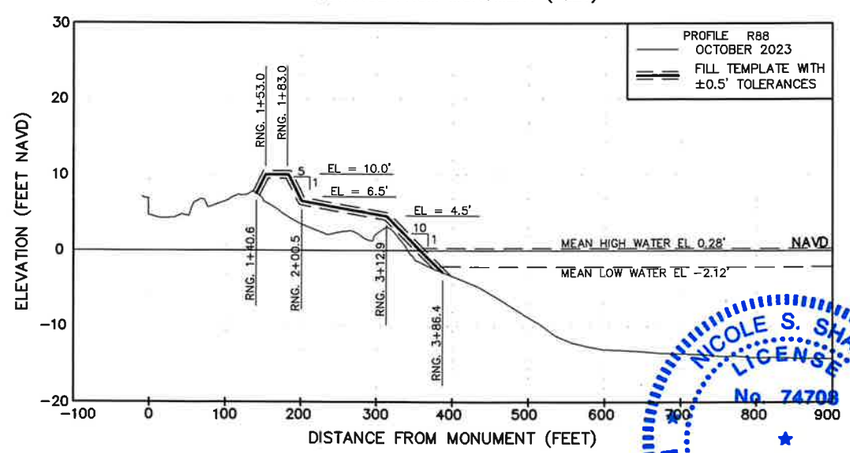












NOTES:

1. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

VERTICALL SCALE IN FT: 0 5 10

HORIZONTAL SCALE IN FT: 0 50 100

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

NICOLE S. SHARP P.E. NO. 74708

3/1/24
DATE

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REVISIONS

No.	Date	Description

Reference Files:

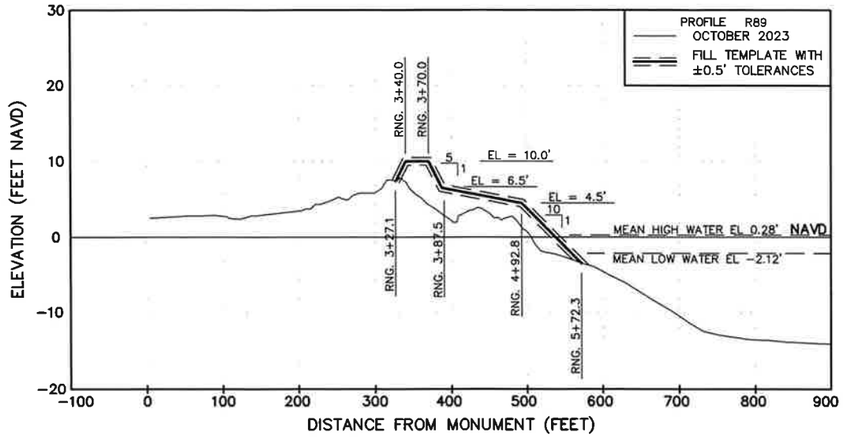
Designed by: EB
Drawn by: JEB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NS
Submitted by: EB
Comm. No. 6360.4949

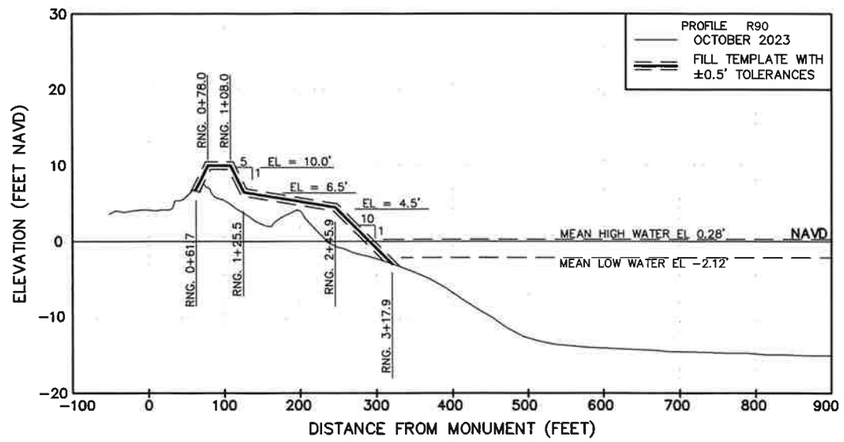
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

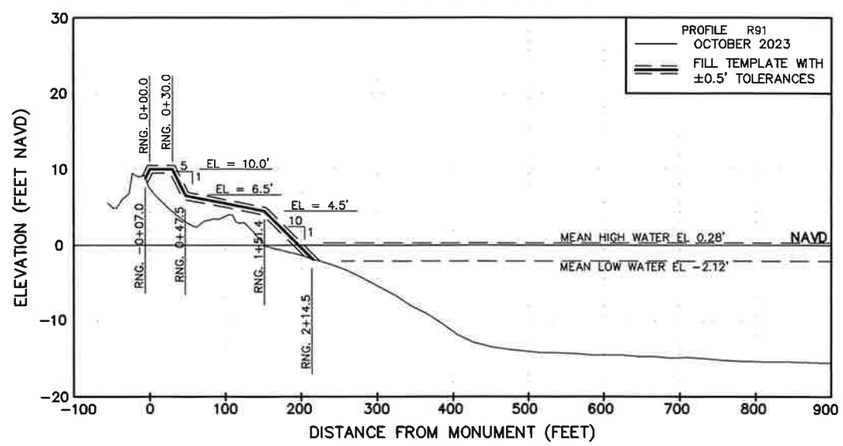
BEACH FILL PROFILES

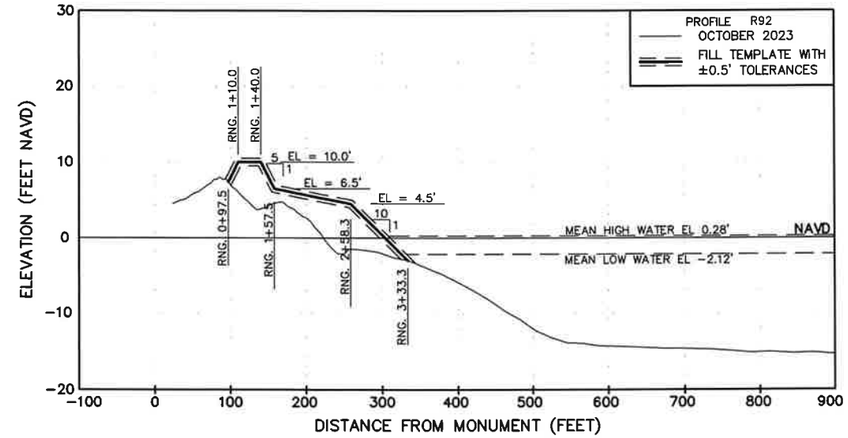
DRAWING NO.
PR-1

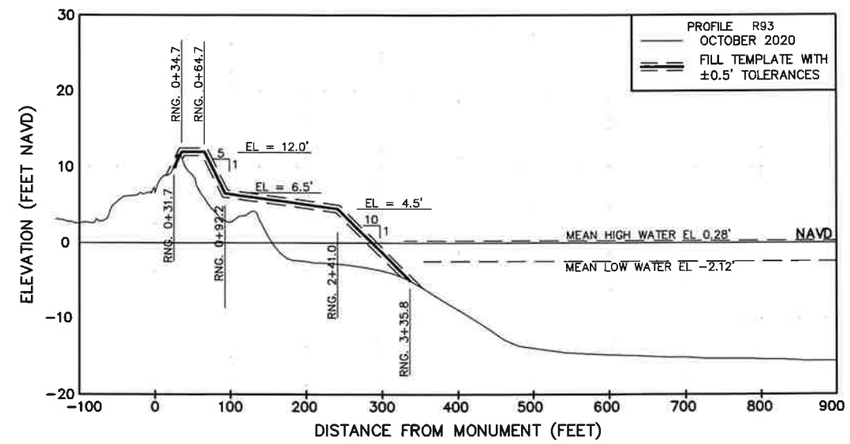
SHEET 13 OF 21

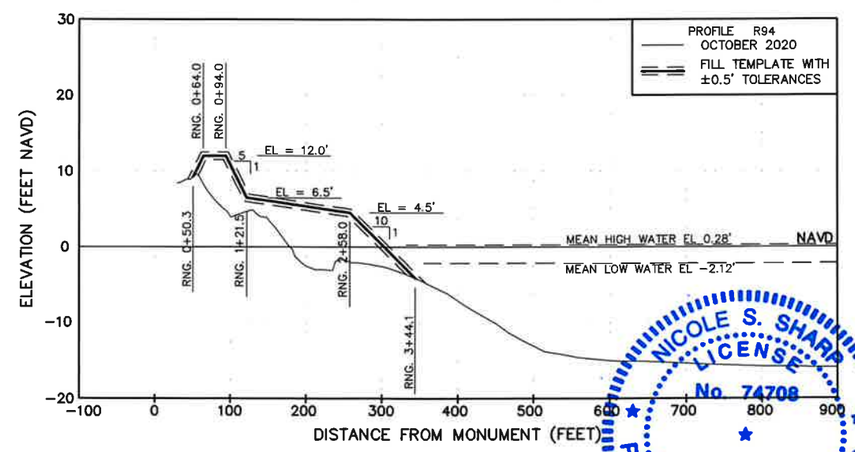












NOTES:

1. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

VERTICALL SCALE IN FT: 0 5 10

HORIZONTAL SCALE IN FT: 0 50 100

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3/1/24
DATE

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REVISIONS

No.	Date	Description

Reference Files:

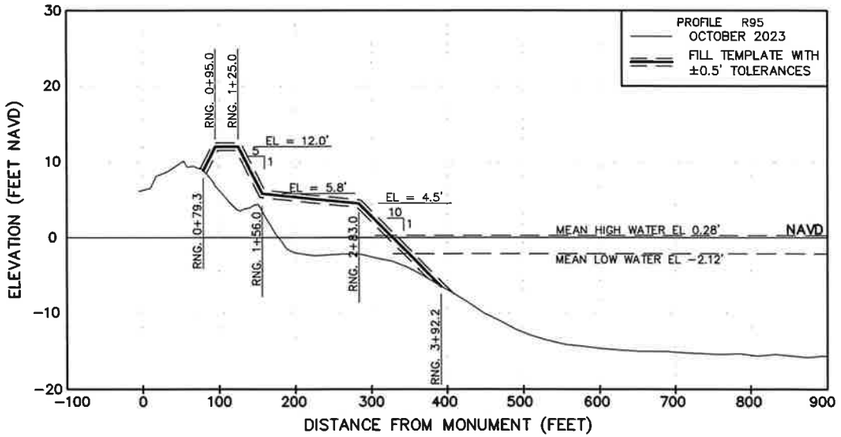
Designed by: EB
Drawn by: AWB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NSS
Submitted by: EB
Contr. No: 4530-3949

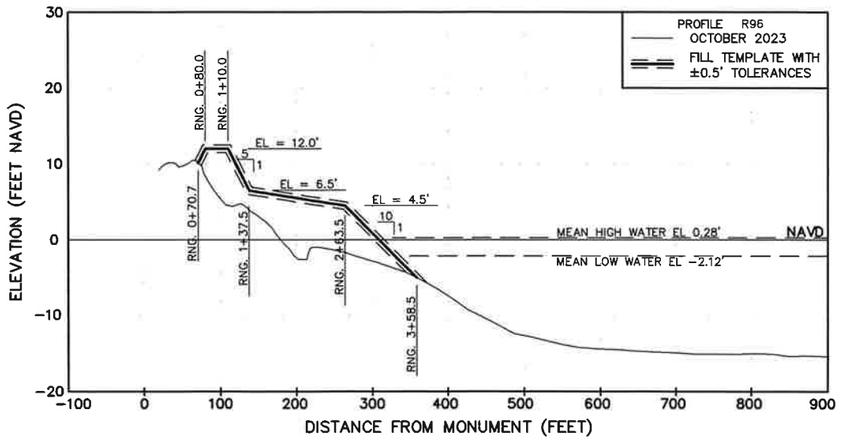
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

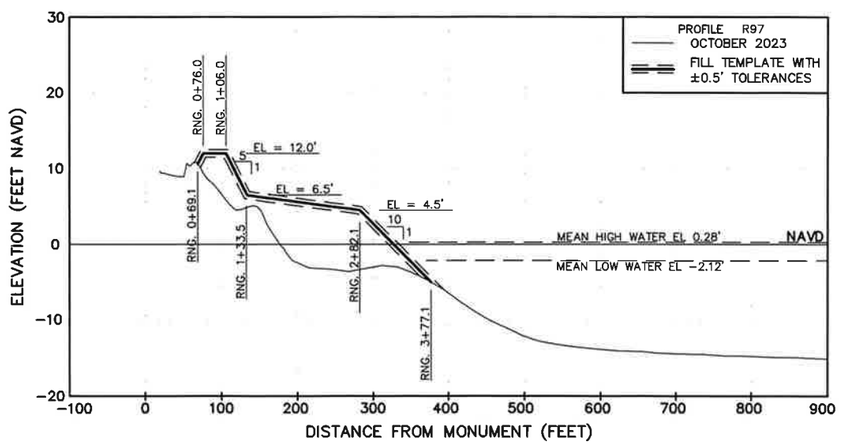
BEACH FILL PROFILES

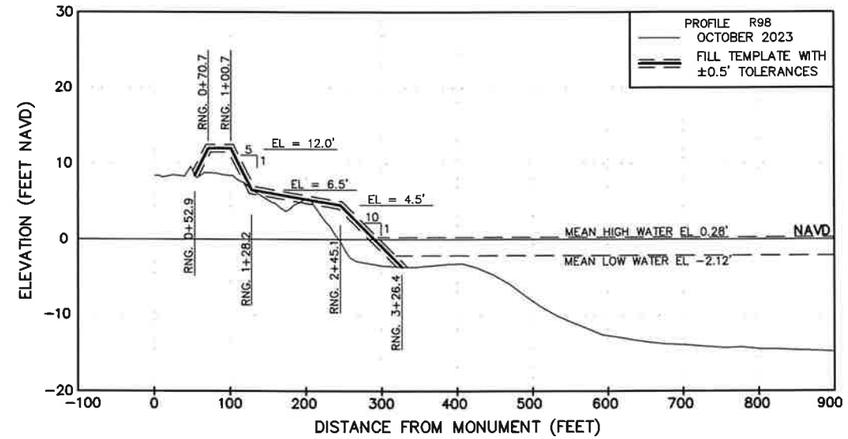
DRAWING NO.
PR-2

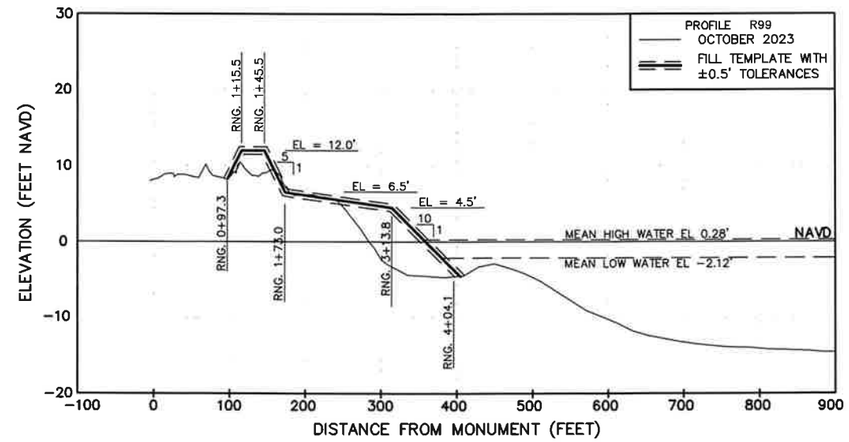
SHEET 14 OF 21

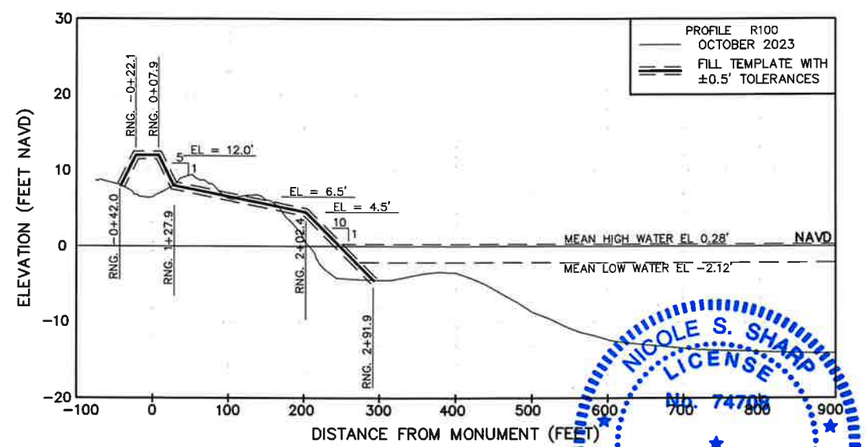












NOTES:

1. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

VERTICALL SCALE IN FT: 0 5 10

HORIZONTAL SCALE IN FT: 0 50 100

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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NICOLE S. SHARP P.E. NO. 74708 — DATE 3/1/24

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No.	Date	Description

REVISIONS

Reference Files:

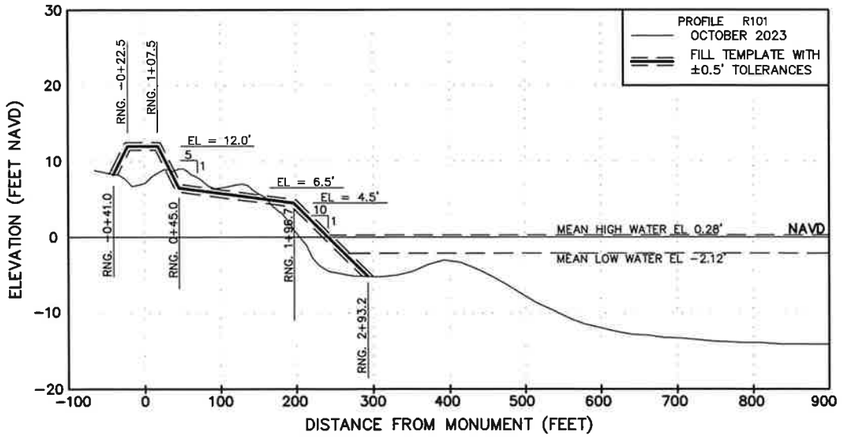
Designed by: EB
Drawn by: AMB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NS
Submitted by: EB
Comm. No.: 6.5603.4949

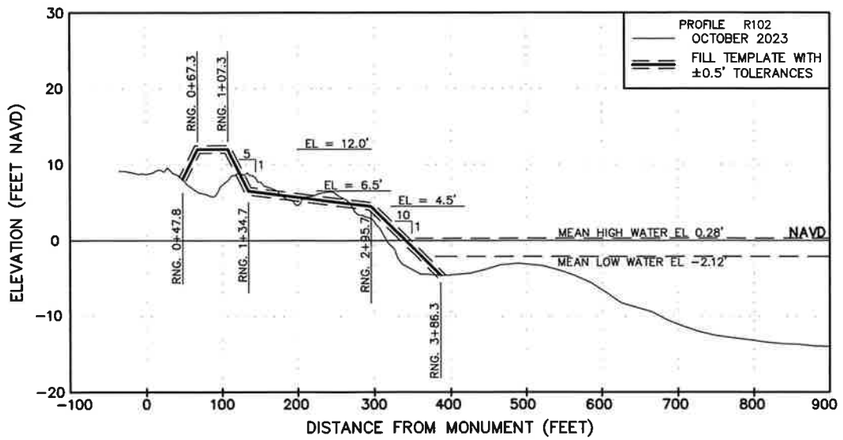
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

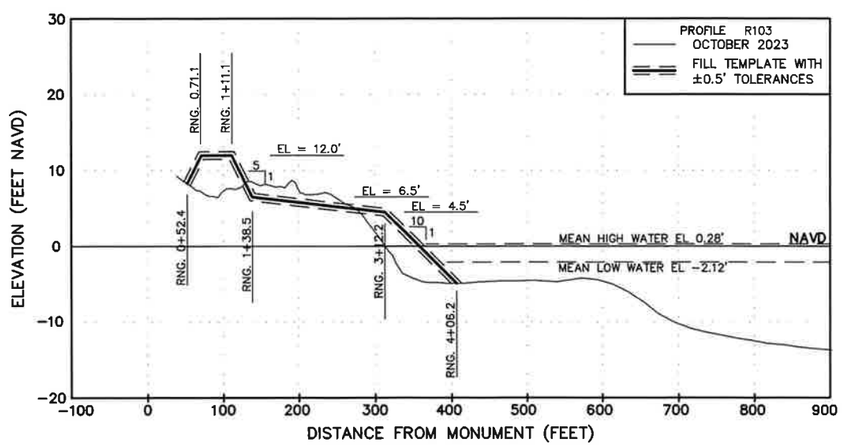
BEACH FILL PROFILES

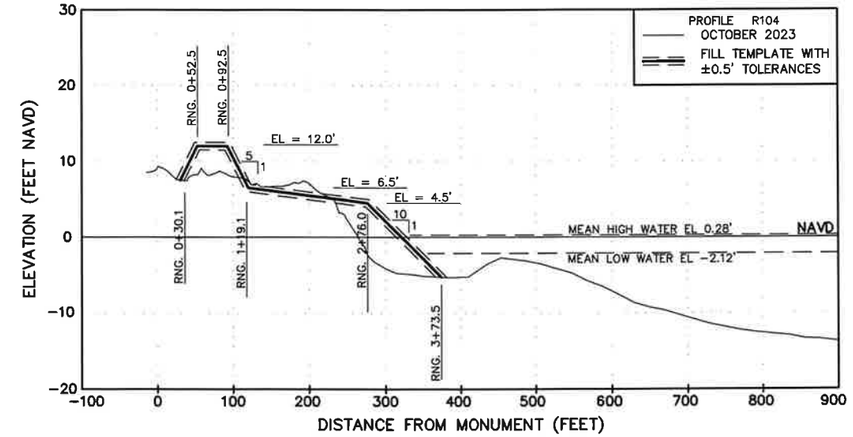
DRAWING NO.
PR-3

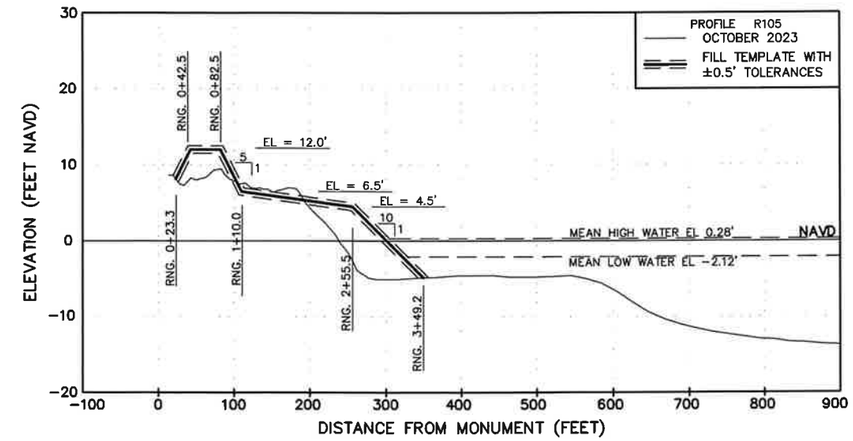
SHEET 15 OF 21

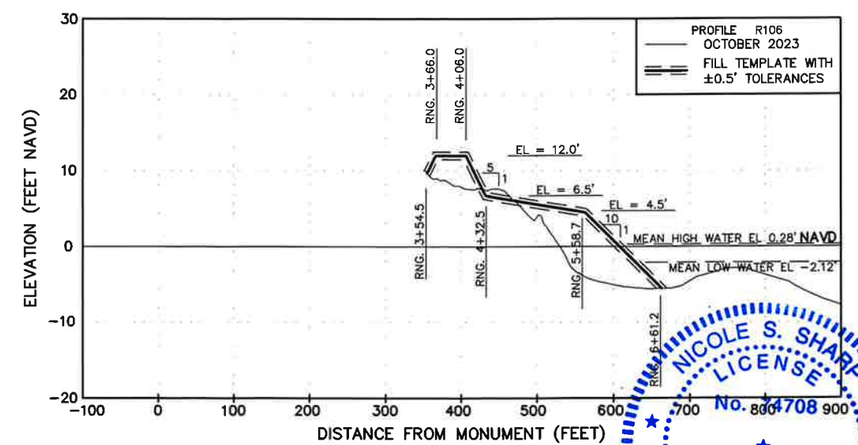












NOTES:

1. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

VERTICALL SCALE IN FT (0 5 10)

HORIZONTAL SCALE IN FT (0 50 100)

CERTIFICATION:
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NICOLE S. SHARP P.E. NO. 74708

DATE 3/1/24

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVISIONS

No.	Date	Description

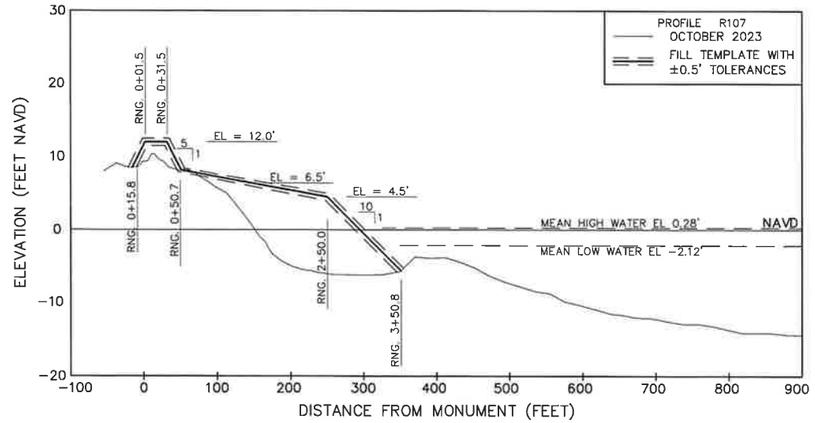
Designed by: EB | Checked by: EB
Drawn by: JEB | Reviewed by: NS
Date: 01/05/24 | Submitted by: EB
Plot Scale: AS NOTED | Comm. No: 636034949
Reference Files:

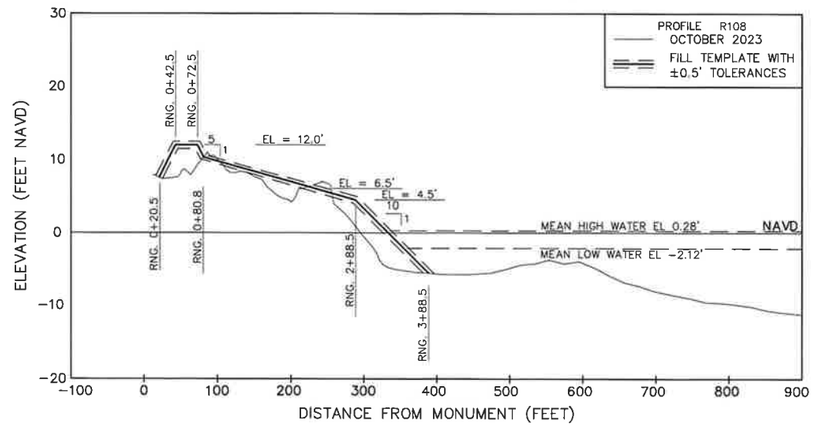
CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

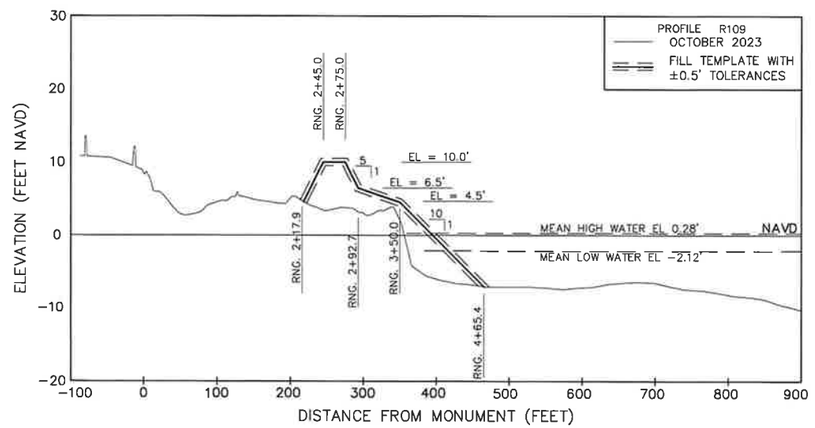
BEACH FILL PROFILES

DRAWING NO.
PR-4

SHEET 16 OF 21







NOTES:

1. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

VERTICALL SCALE IN FT: 0 5 10

HORIZONTAL SCALE IN FT: 0 50 100

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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NICOLE S. SHARP P.E. NO. 74708

3/1/24
DATE

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REVISIONS

No.	Date	Description

Designed by: EB
Drawn by: JEB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NS
Submitted by: EB
Comm. No. 636034949

Reference Files:

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT

BEACH FILL PROFILES

DRAWING NO.
PR-5

SHEET 17 OF 21

BORROW AREA IIIB

CUT TO -36.0' NAVD

CUT TO -38.0' NAVD

CUT TO -37.0' NAVD

CUT TO -34.0' NAVD

200' ANOMALY BUFFFER (NO DREDGE)

200' ANOMALY BUFFER

GULF OF MEXICO

N=743672 E=582789

N=742572 E=584488

N=741999 E=585374

N=742438 E=581867

N = 742415 E = 581915

N = 742245 E = 582151

N = 741751 E = 585757

N=741612 E=585973

N = 742118 E = 582287

N = 741935 E = 582611

N=741826 E=582696

N = 741653 E = 585183

N = 741382 E = 583040

N = 741127 E = 583163

N = 740946 E = 583402

N = 740515 E = 585546

N=740528 E=585279

N = 741042 E = 583614

N = 741005 E = 583905

N = 740924 E = 584161

N = 740744 E = 584335

N = 740665 E = 584413

N = 740493 E = 584538

N = 740413 E = 584771

N = 740419 E = 584789

N = 740498 E = 585017

N = 740528 E = 585281

SB-15 SB-14 SB-16 SB-13 SB-10 SB-11 SB-12 SB-17 SB-18

C C' D D'

N 774000 N 742500 N 741000 N 739500

E 579500 E 581000 E 582500 E 584000 E 585500 E 587000

GRAPHIC SCALE IN FT 0 150 300

NOTES:

1. BATHYMETRIC SURVEY CONDUCTED: APTIM MARCH, 2013.
2. COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1983/90 NAD.
3. POSITIONING ACQUIRED BY DEL NORTE 540 TRISPONDER SYSTEM. GUIDANCE ALONG TRACK– LINES WAS ACHIEVED USING THE COASTAL OCEANOGRAPHICS NAVIGATIONAL SYSTEM.
4. VIBRACORES WERE OBTAINED BY EXMAR, JAN. 1994 UNDER THE DIRECTION AND SUPERVISION OF CPE.
5. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NORTH AMERICAN VERTICAL DATUM, 1988. (NAVD88)
6. DIVE (SCUBA) INSPECTION ON MAGNETOMETER ANOMALY ON 9/12/95 – NO OBJECT FOUND ON SURFACE.
7. BASED ON THE DESIGN FROM 2005–6 PROJECT PLANS.

LEGEND:

- SB-3 — 1993 VIBRACORES
- JET PROBES
- 35 — 1993 BATHYMETRIC CONTOURS
- HARDBOTTOM
- PREDOMINATELY BURIED/FLUSH PLATFORM WITH NUMEROUS SCATTERED SPONGES AND SOFT CORALS
- 750 FT BUFFER OVERLAPPING BORROW AREA FROM MAY 2014 HARDBOTTOM EDGE– NO DREDGE ZONE
- MAGNETOMETER ANOMALY LOCATION
- NO DREDGE AREA
- CUT TO -38.0' NAVD — MAXIMUM DEPTH OF EXCAVATION

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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C.O.A. LA. #2531

REVISIONS: No. | Date | Description

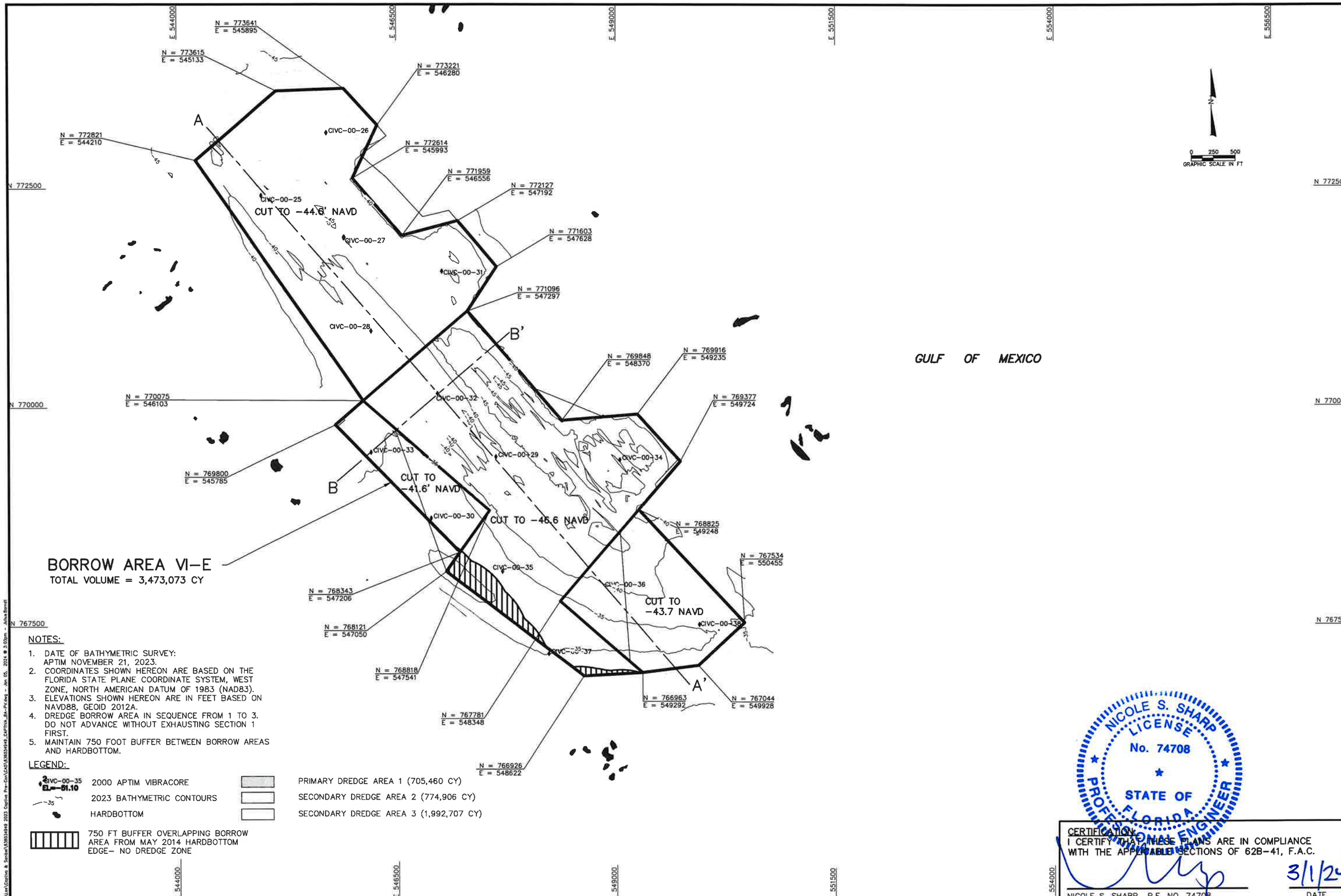
Reference Files:
Designed by: EB | Checked by: EB
Drawn by: JEB | Reviewed by: NS
Date: 01/05/24 | Submitted by: EB
Plot Scale: AS NOTED | Comm. No. B3803494.49

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
BORROW AREA IIIB
BATHYMETRY PLAN VIEW

DRAWING NO. BA-1

SHEET 18 OF 21

P:\Jobs\Captiva & Sanibel\B3803494.49 2023 Captiva Pre-Con\CAD\B3803494.49_CAPTIVA_BA-PV.dwg - Jan 05, 2024 @ 3:03pm - Julia Bondi



NOTES:

1. DATE OF BATHYMETRIC SURVEY: APTIM NOVEMBER 21, 2023.
2. COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD88, GEOID 2012A.
4. DREDGE BORROW AREA IN SEQUENCE FROM 1 TO 3. DO NOT ADVANCE WITHOUT EXHAUSTING SECTION 1 FIRST.
5. MAINTAIN 750 FOOT BUFFER BETWEEN BORROW AREAS AND HARDBOTTOM.

LEGEND:

- CIVC-00-35 EL.=-51.10 — 2000 APTIM VIBRACORE
- 2023 BATHYMETRIC CONTOURS
- HARDBOTTOM
- 750 FT BUFFER OVERLAPPING BORROW AREA FROM MAY 2014 HARDBOTTOM EDGE– NO DREDGE ZONE
- PRIMARY DREDGE AREA 1 (705,460 CY)
- SECONDARY DREDGE AREA 2 (774,906 CY)
- SECONDARY DREDGE AREA 3 (1,992,707 CY)

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NICOLE S. SHARP P.E. NO. 74708 — DATE 3/1/24

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C.O.A. LA. #2531

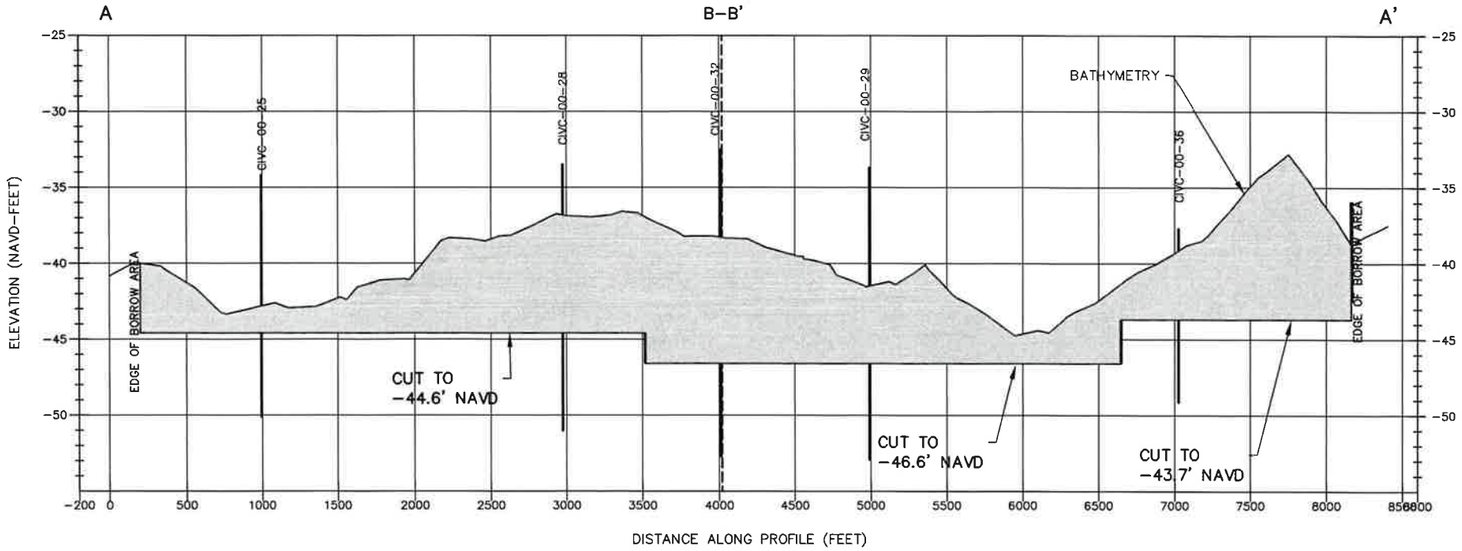
REVISIONS: No. | Date | Description

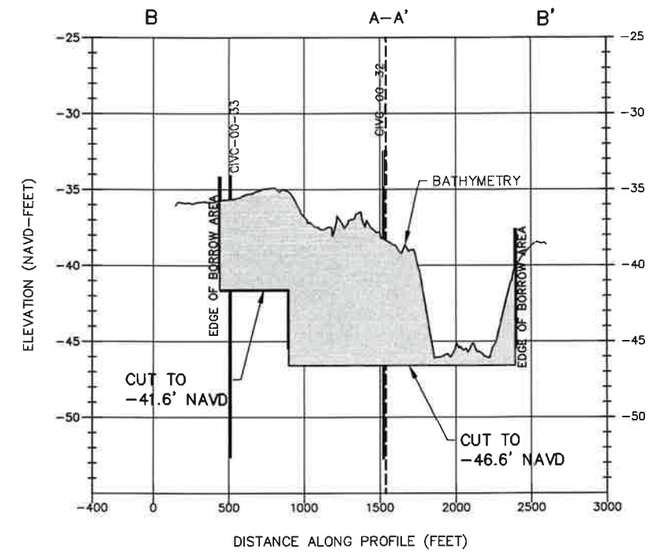
Designed by: EB | Checked by: EB
Drawn by: JEB | Reviewed by: NS
Date: 01/05/24 | Submitted by: EB
Plot Scale: AS NOTED | Comm. No.: 635034949
Reference Files:

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
BORROW AREA VI-E BATHYMETRY
PLAN VIEW

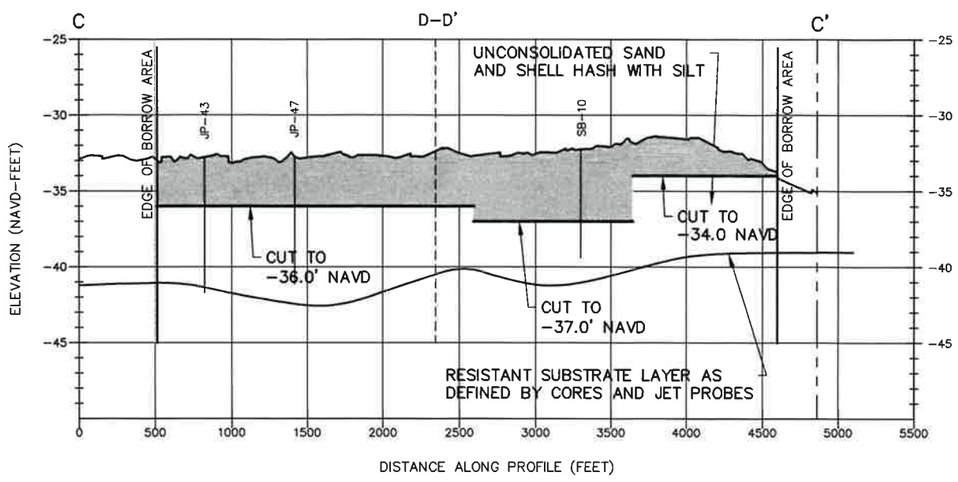
DRAWING NO.
BA-2

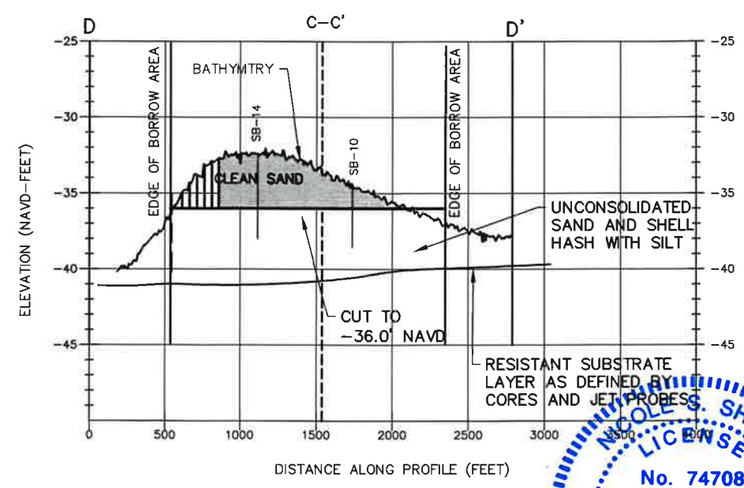
BORROW AREA VI–E





BORROW AREA IIIB





NOTES:

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE.
2. VERTICAL THICKNESS OF LAYERS IS REPRESENTATIVE ONLY. ACTUAL MATERIAL MAY VARY.
3. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. SEE SHEETS 22–24 FOR LOCATION OF CROSS SECTION LINES.

0 2.5 5
VERTICALL SCALE IN FT
0 250 500
HORIZONTAL SCALE IN FT

NICOLE S. SHARP
LICENSE
No. 74708
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B–41, F.A.C.

NICOLE S. SHARP P.E. NO. 74708 — 3/1/24 DATE

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REVISIONS

No.	Date	Description

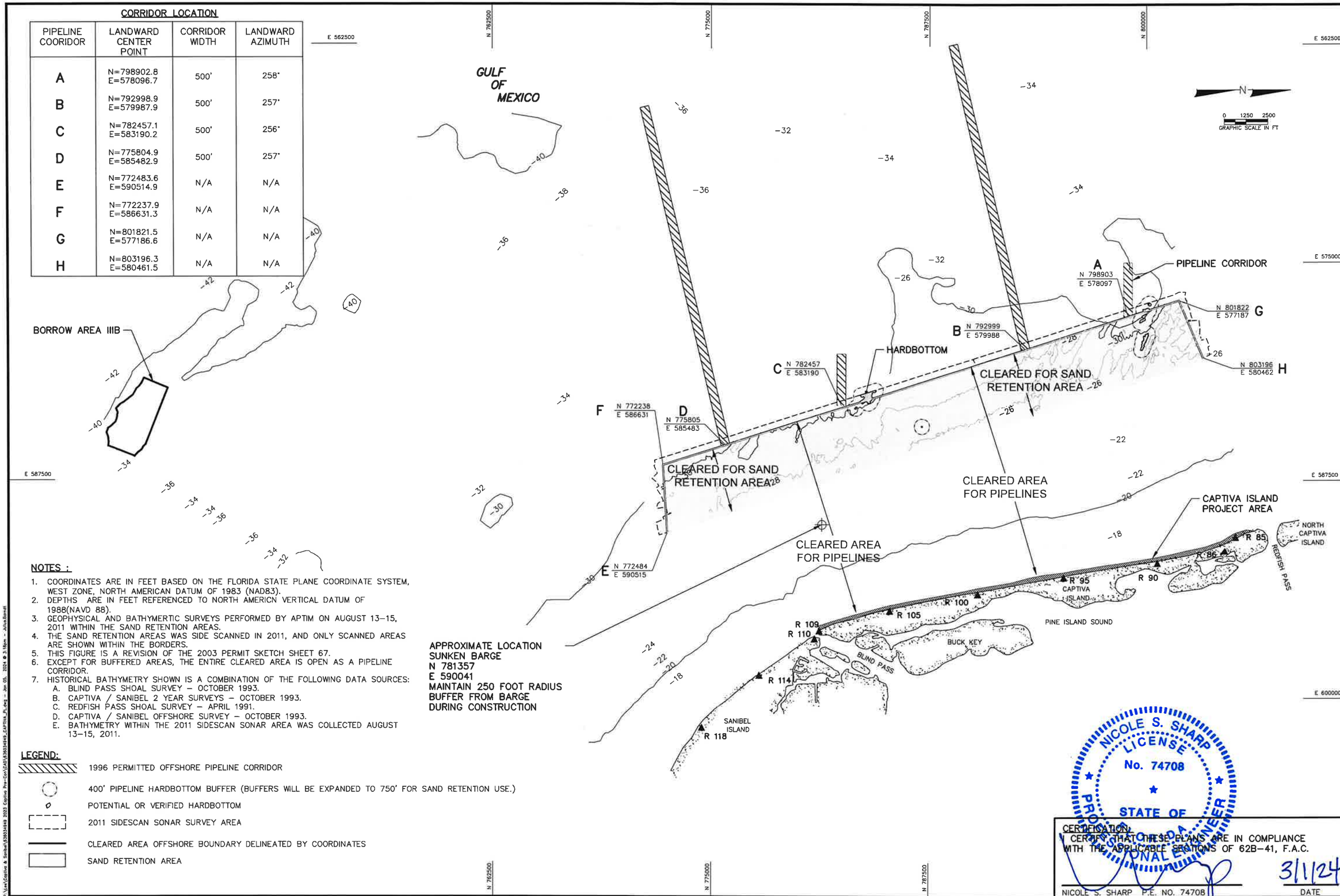
Reference Files:
Designed by: EB
Drawn by: JEB
Date: 01/05/24
Plot Scale: AS NOTED
Checked by: EB
Reviewed by: NS
Submitted by: EB
Comm. No. 5360349.49

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
BORROW AREA IIIB
AND BORROW AREA VI–E
CROSS SECTIONS

DRAWING NO.
BA–3

CORRIDOR LOCATION

PIPELINE COORIDOR	LANDWARD CENTER POINT	CORRIDOR WIDTH	LANDWARD AZIMUTH
A	N=798902.8 E=578096.7	500'	258°
B	N=792998.9 E=579987.9	500'	257°
C	N=782457.1 E=583190.2	500'	256°
D	N=775804.9 E=585482.9	500'	257°
E	N=772483.6 E=590514.9	N/A	N/A
F	N=772237.9 E=586631.3	N/A	N/A
G	N=801821.5 E=577186.6	N/A	N/A
H	N=803196.3 E=580461.5	N/A	N/A



NOTES :

1. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. DEPTHS ARE IN FEET REFERENCED TO NORTH AMERICN VERTICAL DATUM OF 1988(NAVD 88).
3. GEOPHYSICAL AND BATHYMERTIC SURVEYS PERFORMED BY APTIM ON AUGUST 13–15, 2011 WITHIN THE SAND RETENTION AREAS.
4. THE SAND RETENTION AREAS WAS SIDE SCANNED IN 2011, AND ONLY SCANNED AREAS ARE SHOWN WITHIN THE BORDERS.
5. THIS FIGURE IS A REVISION OF THE 2003 PERMIT SKETCH SHEET 67.
6. EXCEPT FOR BUFFERED AREAS, THE ENTIRE CLEARED AREA IS OPEN AS A PIPELINE CORRIDOR.
7. 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.
   E. BATHYMETRY WITHIN THE 2011 SIDESCAN SONAR AREA WAS COLLECTED AUGUST 13–15, 2011.

LEGEND:

- 1996 PERMITTED OFFSHORE PIPELINE CORRIDOR
- 400' PIPELINE HARDBOTTOM BUFFER (BUFFERS WILL BE EXPANDED TO 750' FOR SAND RETENTION USE.)
- POTENTIAL OR VERIFIED HARDBOTTOM
- 2011 SIDESCAN SONAR SURVEY AREA
- CLEARED AREA OFFSHORE BOUNDARY DELINEATED BY COORDINATES
- SAND RETENTION AREA

NICOLE S. SHARP LICENSE No. 74708 STATE OF FLORIDA PROFESSIONAL ENGINEER

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NICOLE S. SHARP P.E. NO. 74708 — DATE 3/1/24

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REVISIONS

No.	Date	Description
1	3/5/13	ADDENDA 1

Designed by: EB | Checked by: EB
Drawn by: GK | Reviewed by: NS
Date: 01/05/24 | Submitted by: EB
Plot Scale: AS SHOWN | Comm. No.: 638034949

Reference Files:

CAPTIVA ISLAND
BEACH RENOURISHMENT PROJECT
PIPELINE AND SAND RETENTION AREA LOCATIONS
PLAN VIEW

DRAWING NO.
PL–1