

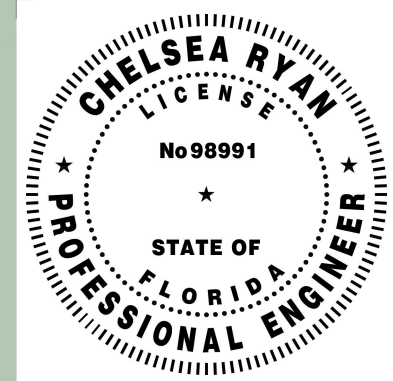
LEGEND:

- MAY 2017 DIVER HARDBOTTOM
- 1993 ARTIFICIAL REEF
- 2005 ARTIFICIAL REEF
- 2011 ARTIFICIAL REEF
- FDEP MONUMENT
- 13-84-B04 SURVEY CONTROL POINT

NOTES:

- COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1990 (NAD83/90).
- BACKGROUND IMAGERY IS THE 2025 AERIAL FROM FDOT.

GRAPHIC SCALE IN FEET: 0, 400, 800



COASTAL PROTECTION ENGINEERING LLC
 5301 NORTH FEDERAL HWY
 SUITE 105
 BOCA RATON, FLORIDA 33487
 www.coastalprotectioneng.com
 PH: (561) 565-5100
 C.O.A. FL. #33370



REVISIONS	No.	Date	Description

Designed by:	CR	Checked by:	CR
Drawn by:	JG	Reviewed by:	JG
Date:	3/5/2026	Submitted by:	JG
Project No.:	2024192	AS NOTED	

COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 PLAN OVERVIEW

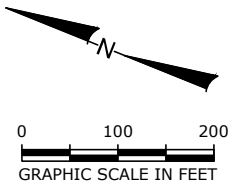
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DRAWING NO. **OV-1**
 SHEET 3 OF 12



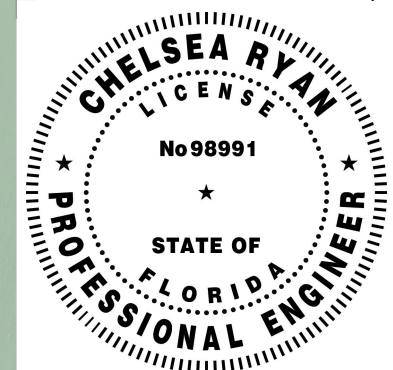
LEGEND:

△ FDEP MONUMENT



NOTES:

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REVISIONS	No.	Date	Description

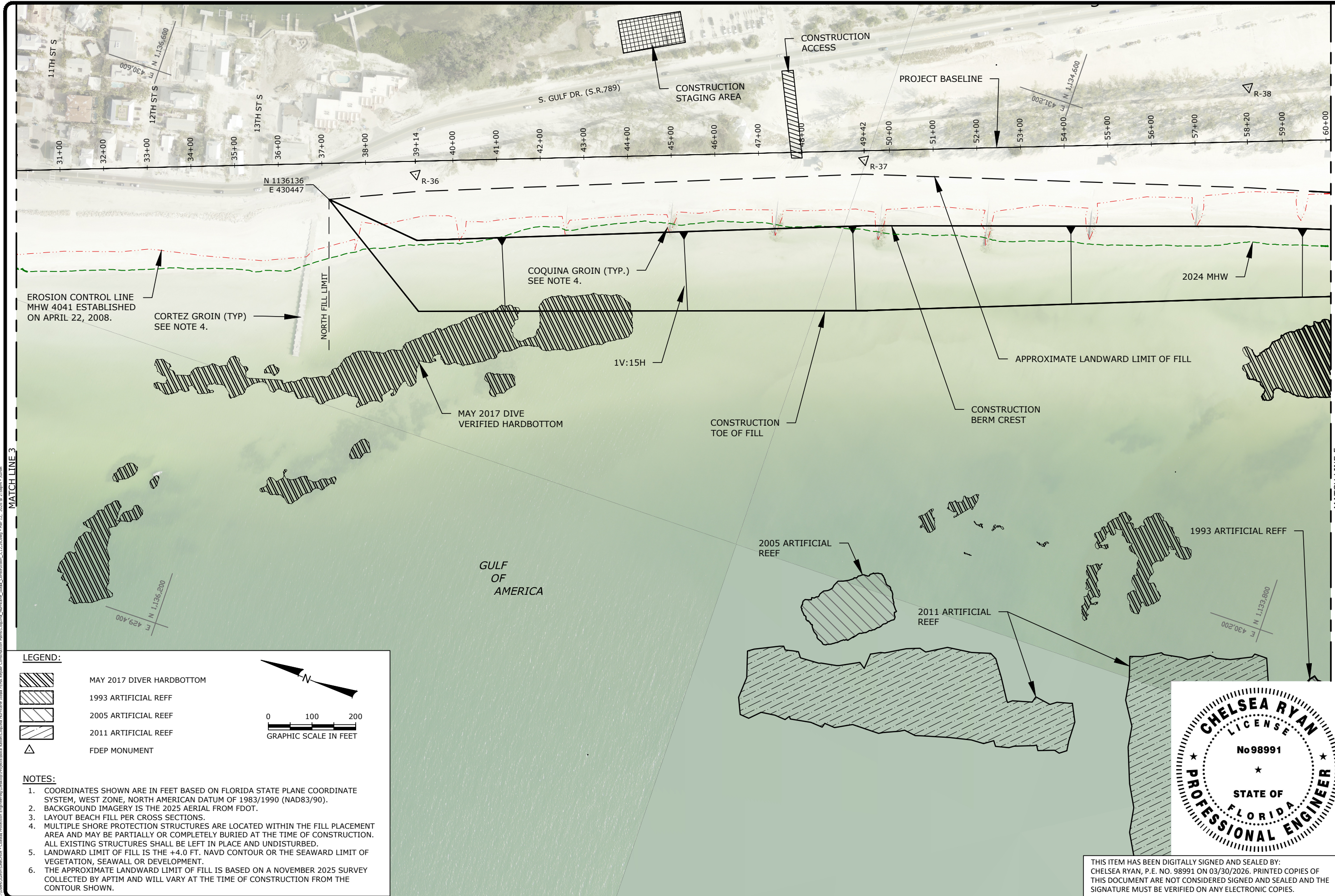
Designed by:	Checked by:
CR	CR
Drawn by:	Reviewed by:
JG	JG
Date:	Submitted by:
3/5/2026	
Plot Scale:	Project No.:
AS NOTED	2024192

COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 PLAN VIEW






DRAWING NO.

PV-1
 SHEET 4 OF 12

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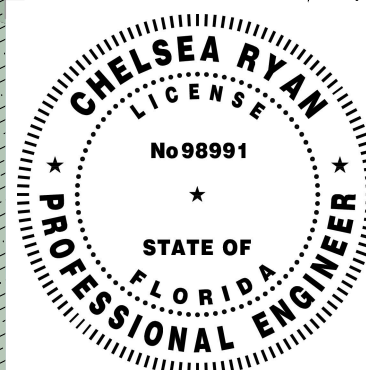


LEGEND:

-  MAY 2017 DIVER HARDBOTTOM
-  1993 ARTIFICIAL REEF
-  2005 ARTIFICIAL REEF
-  2011 ARTIFICIAL REEF
-  FDEP MONUMENT

NOTES:

1. COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1990 (NAD83/90).
2. BACKGROUND IMAGERY IS THE 2025 AERIAL FROM FDOT.
3. LAYOUT BEACH FILL PER CROSS SECTIONS.
4. MULTIPLE SHORE PROTECTION STRUCTURES ARE LOCATED WITHIN THE FILL PLACEMENT AREA AND MAY BE PARTIALLY OR COMPLETELY BURIED AT THE TIME OF CONSTRUCTION. ALL EXISTING STRUCTURES SHALL BE LEFT IN PLACE AND UNDISTURBED.
5. LANDWARD LIMIT OF FILL IS THE +4.0 FT. NAVD CONTOUR OR THE SEAWARD LIMIT OF VEGETATION, SEAWALL OR DEVELOPMENT.
6. THE APPROXIMATE LANDWARD LIMIT OF FILL IS BASED ON A NOVEMBER 2025 SURVEY COLLECTED BY APTIM AND WILL VARY AT THE TIME OF CONSTRUCTION FROM THE CONTOUR SHOWN.



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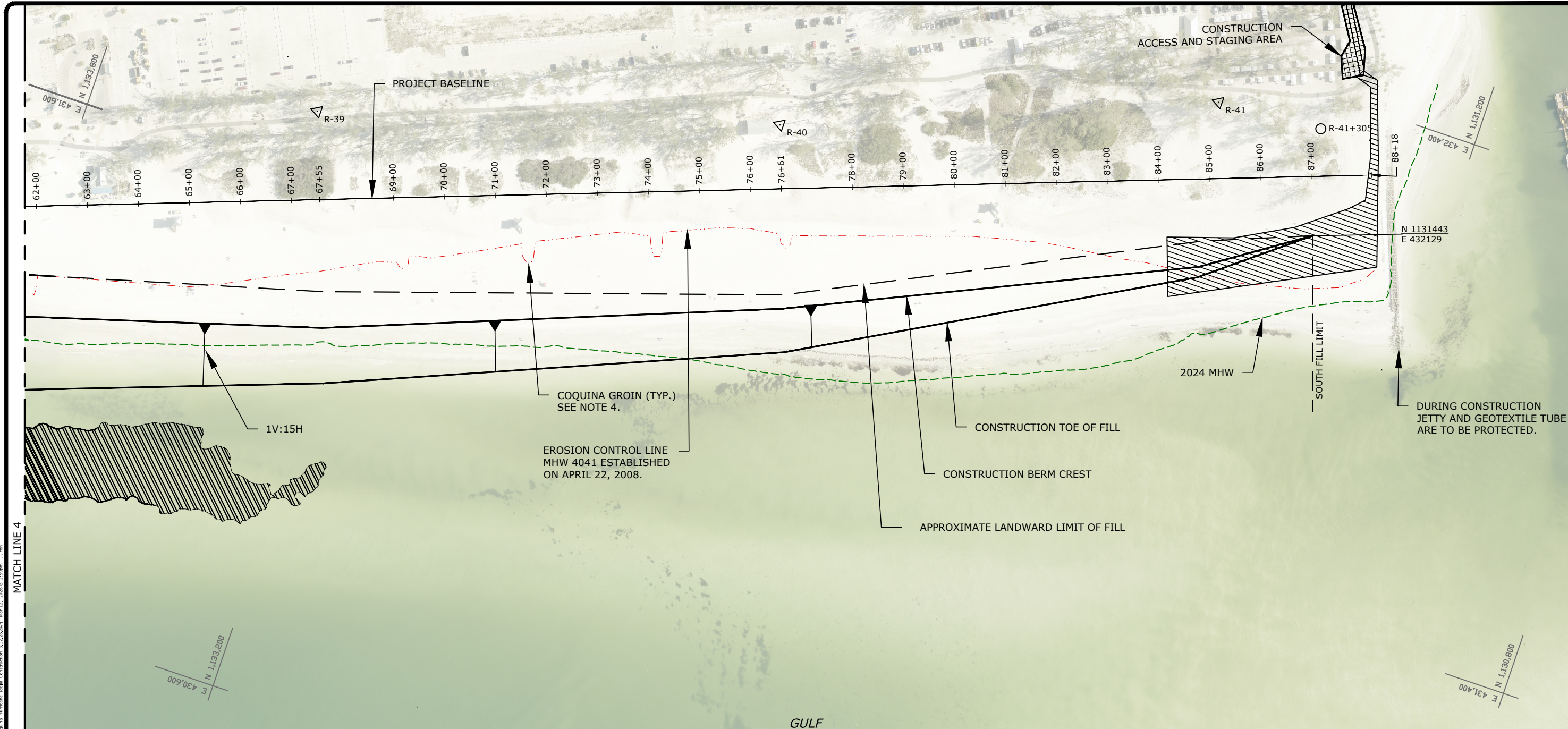


REVISIONS	No.	Date	Description

Checked by:	CR
Reviewed by:	JG
Submitted by:	JG
Date:	3/5/2026
Project No.:	2024192
AS NOTED	

COQUINA BEACH HURRICANE IDALA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 PLAN VIEW

DRAWING NO.
PV-2
 SHEET 5 OF 12



LEGEND:

- MAY 2017 DIVER HARDBOTTOM
- 1993 ARTIFICIAL REEF
- 2005 ARTIFICIAL REEF
- 2011 ARTIFICIAL REEF
- FDEP MONUMENT
- R-41+305 MAP SPOT

NOTES:

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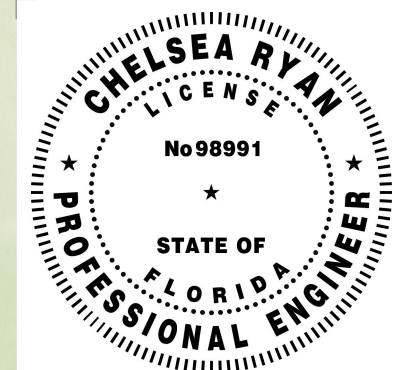
PH: (561) 565-5100
 C.O.A. FL. #33370

REVISIONS	No.	Date	Description

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Drawn by:	JG	Reviewed by:	
Date:	3/5/2026	Submitted by:	
Plot Scale:	AS NOTED	Project No.:	2024192

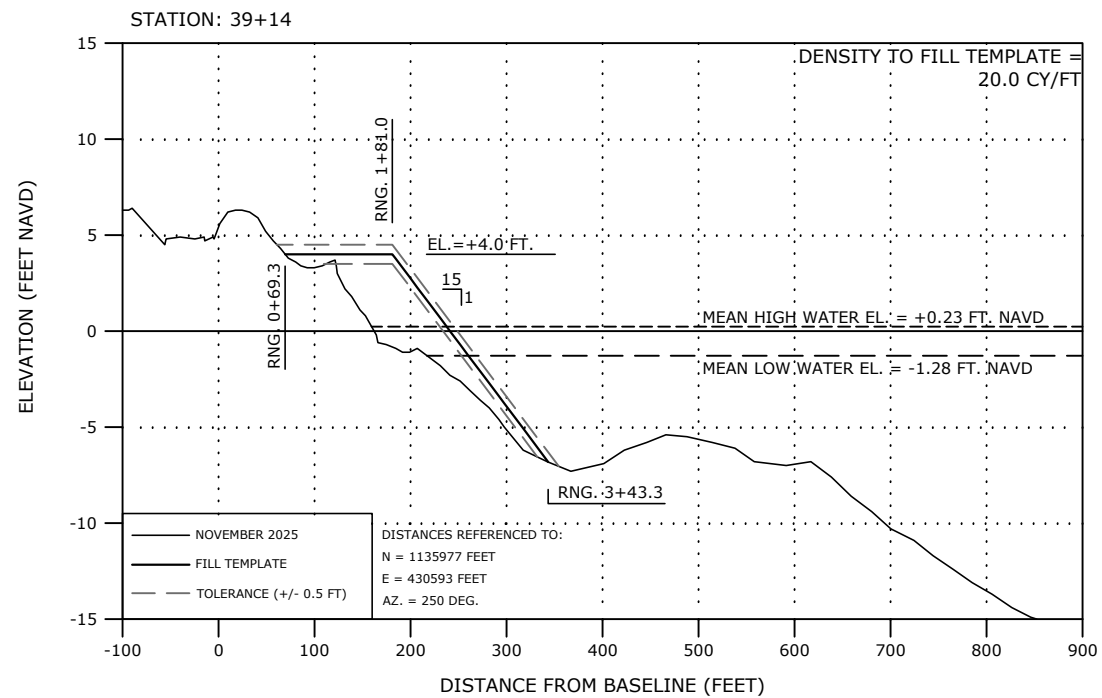
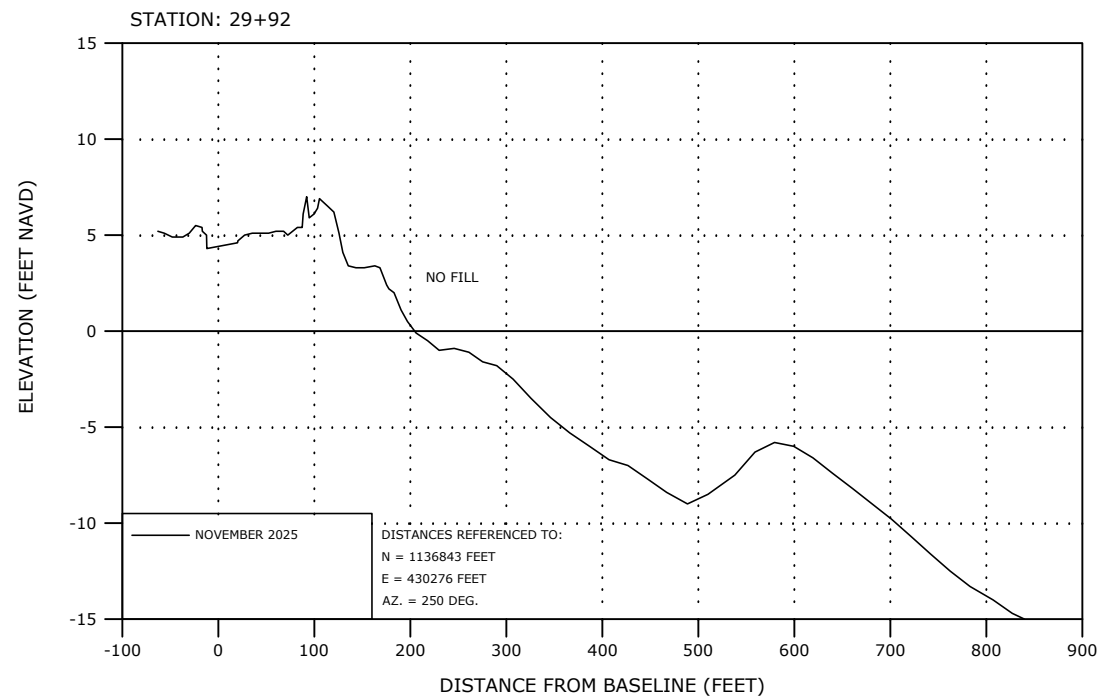
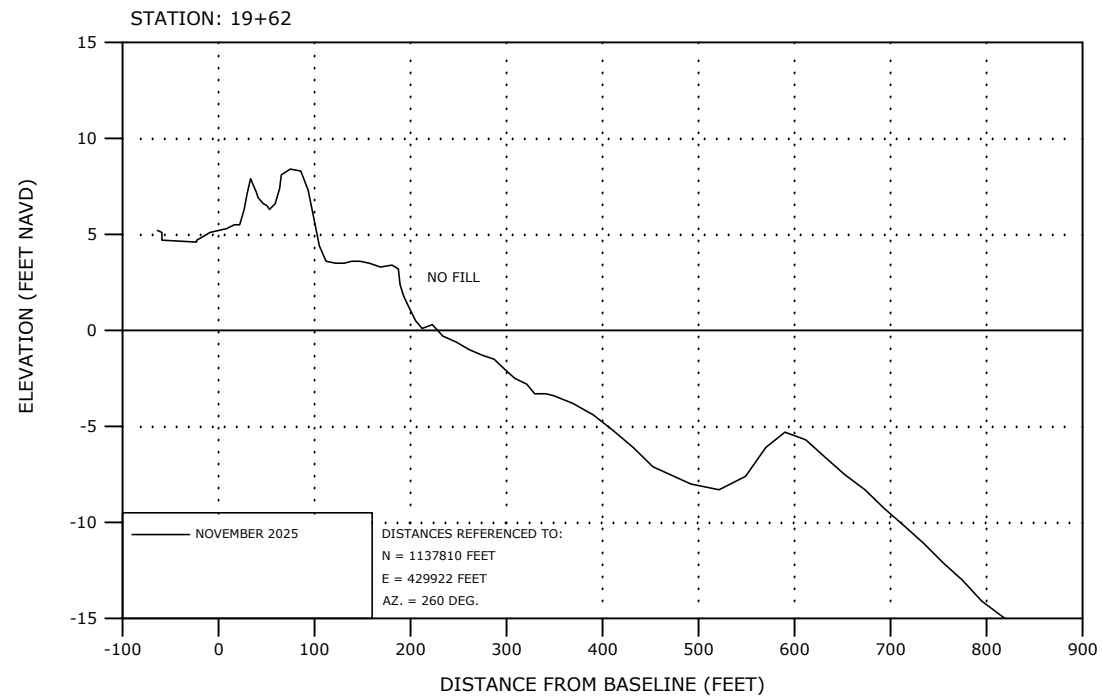
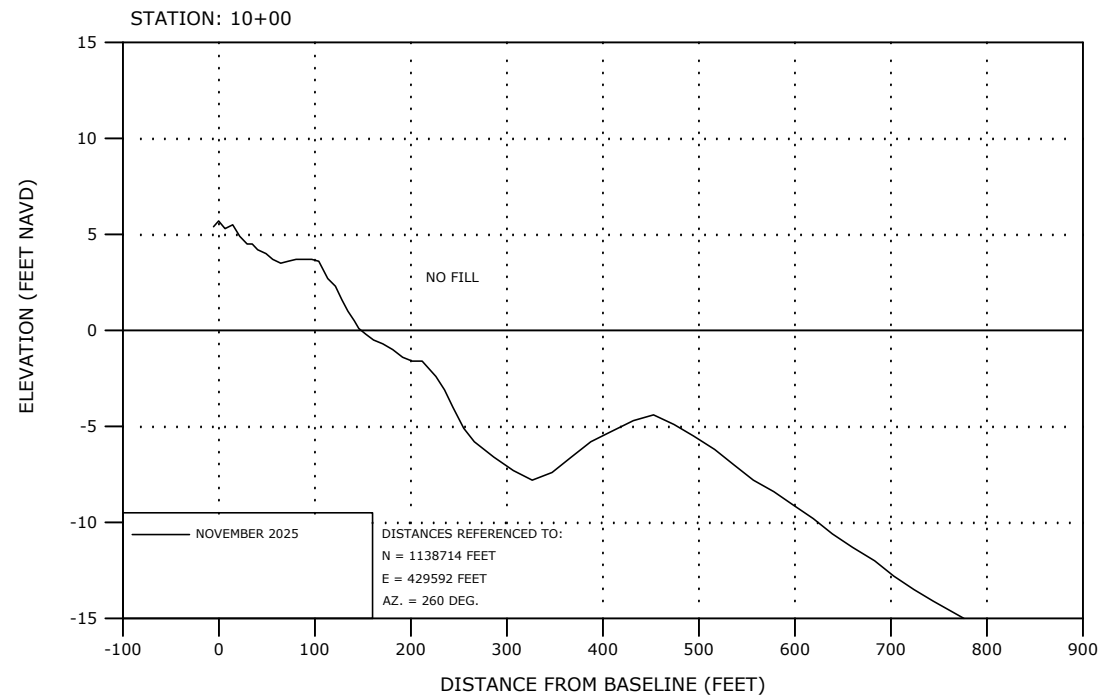
COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA

PLAN VIEW



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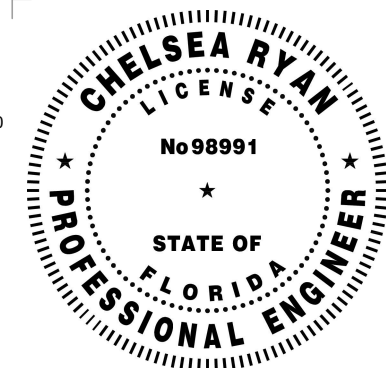
DRAWING NO. **PV-3**
 SHEET 6 OF 12



NOTES:

- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).
- SURVEY AZIMUTHS PROVIDED FOR LAYOUT OF BEACH FILL. PAY PROFILES SHALL BE SURVEYED AS INDICATED ON CONTROL SHEET (CS-2) AND IN TECHNICAL SPECIFICATIONS.
- DATE OF BATHYMETRIC SURVEY: NOVEMBER 2025 CONDUCTED BY APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC (APTIM).
- THE COUNTY RESERVES THE RIGHT TO RECALCULATE THE TARGET FILL DENSITIES BASED ON AN UPDATED SURVEY.

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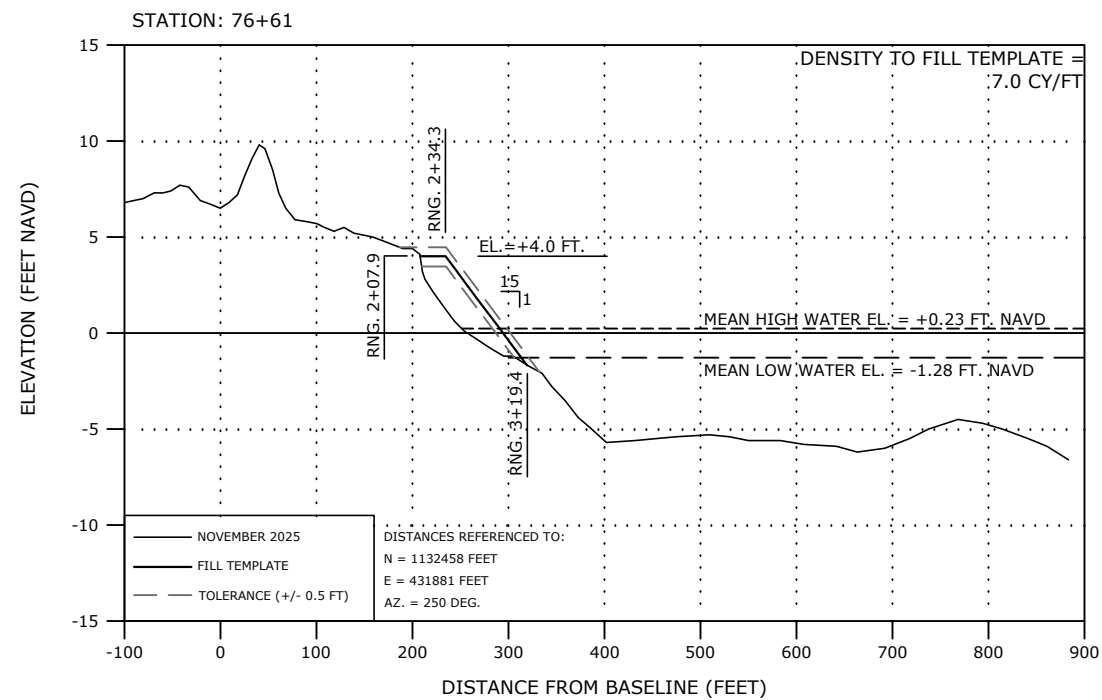
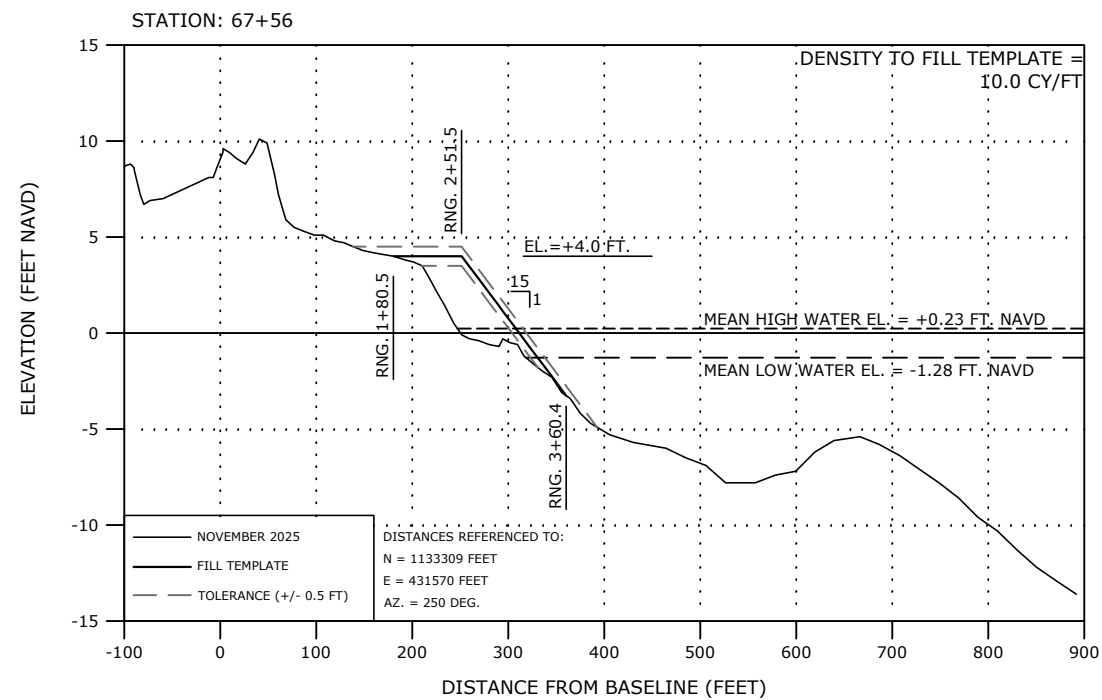
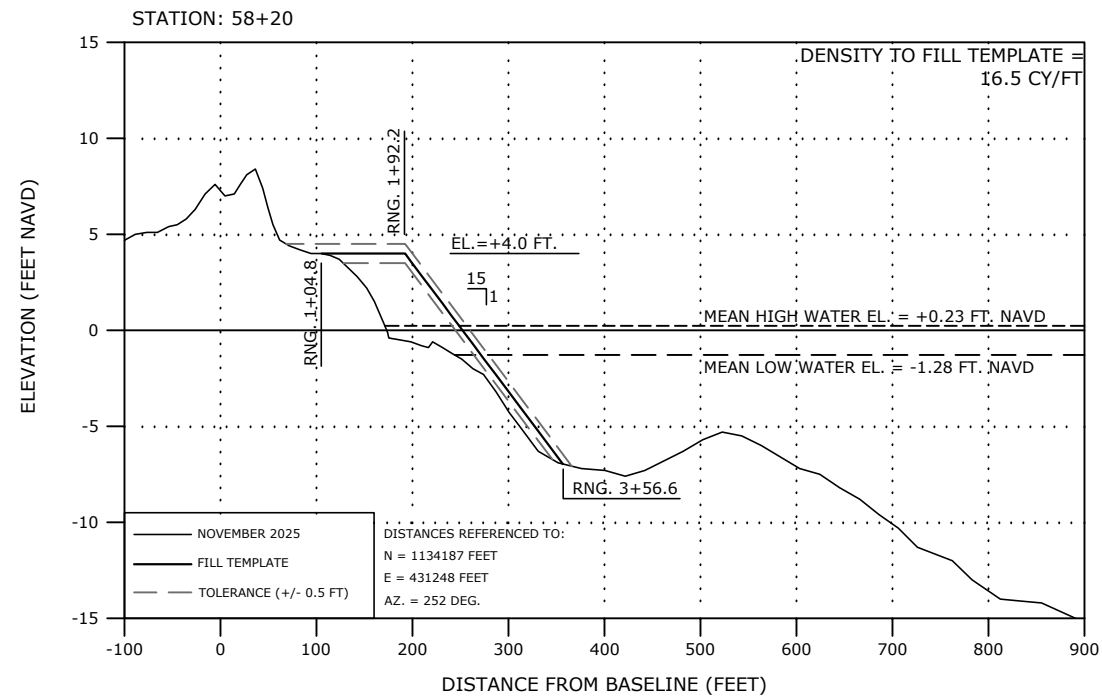
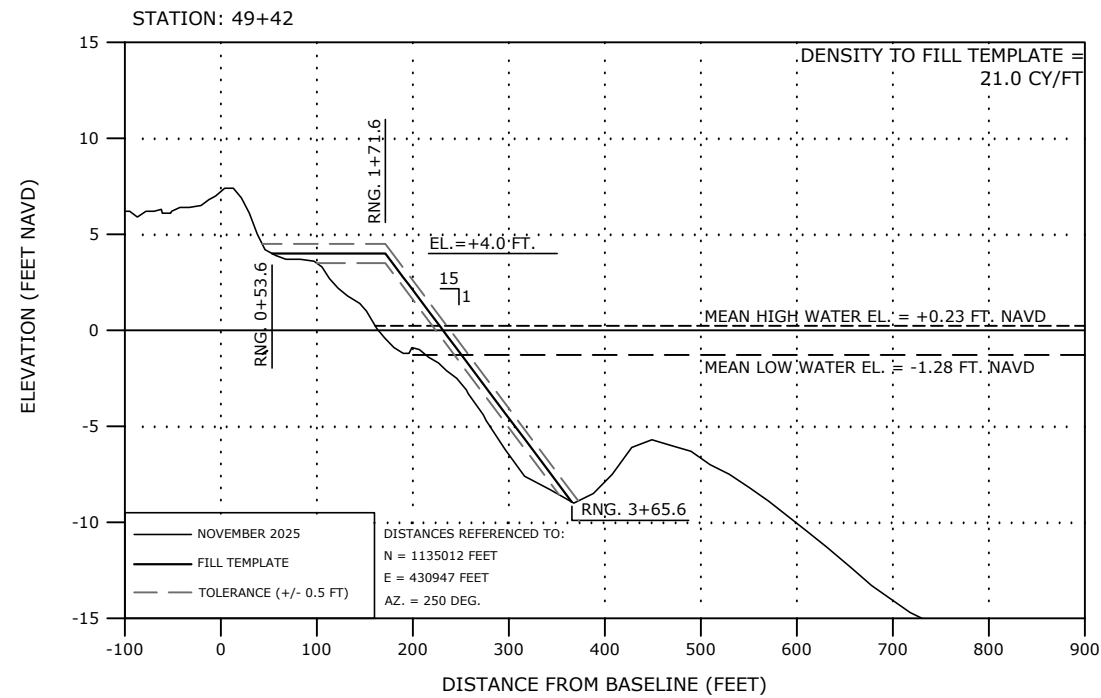


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Submitted by:	
Project No.:	2024192
AS NOTED	

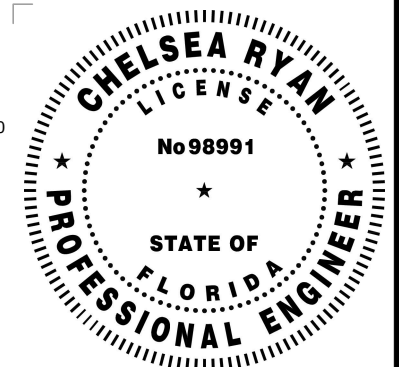
COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 CROSS SECTIONS

DRAWING NO.



NOTES:

- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).
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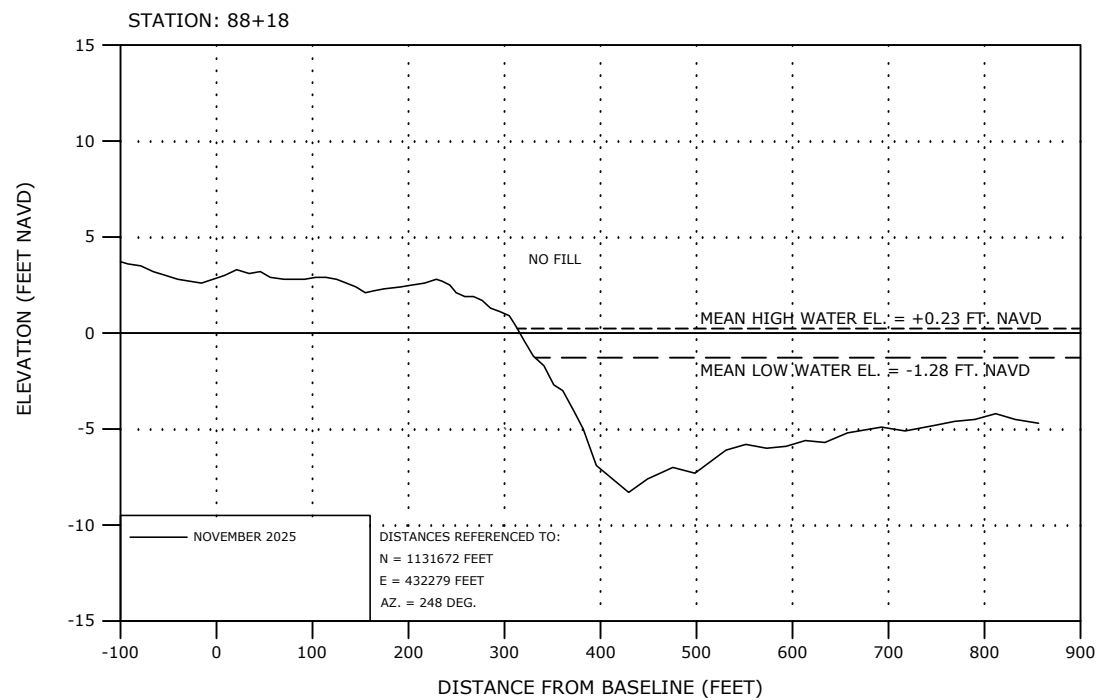
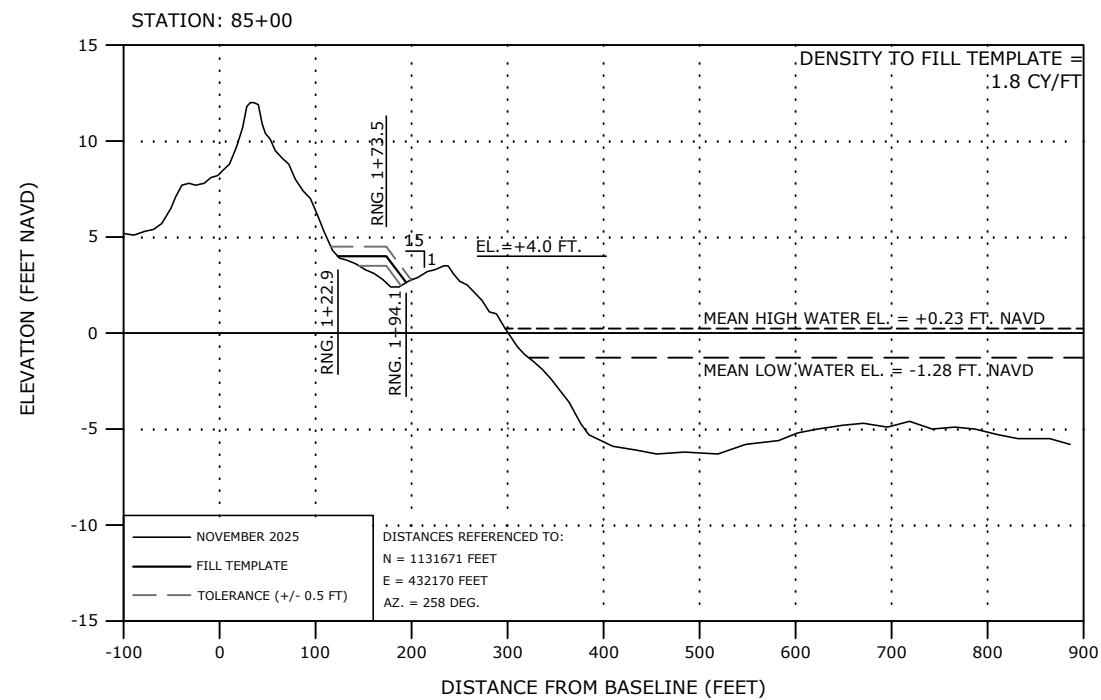
Checked by:	CR
Reviewed by:	JG
Submitted by:	
Project No.:	2024192
Rev. No.:	AS NOTED

COQUINA BEACH HURRICANE IDALIA
FEMA REPAIR PROJECT
MANATEE COUNTY, FLORIDA
CROSS SECTIONS

DRAWING NO.

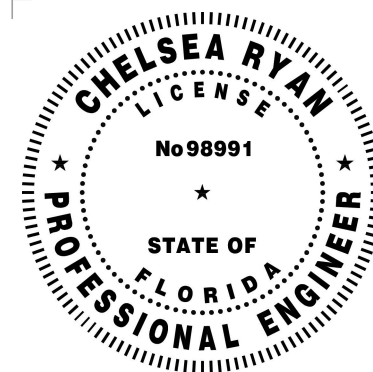
XS-2

SHEET 8 OF 12



NOTES:

- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).
- SURVEY AZIMUTHS PROVIDED FOR LAYOUT OF BEACH FILL. PAY PROFILES SHALL BE SURVEYED AS INDICATED ON CONTROL SHEET (CS-2) AND IN TECHNICAL SPECIFICATIONS.
- DATE OF BATHYMETRIC SURVEY: NOVEMBER 2025 CONDUCTED BY APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC (APTIM).
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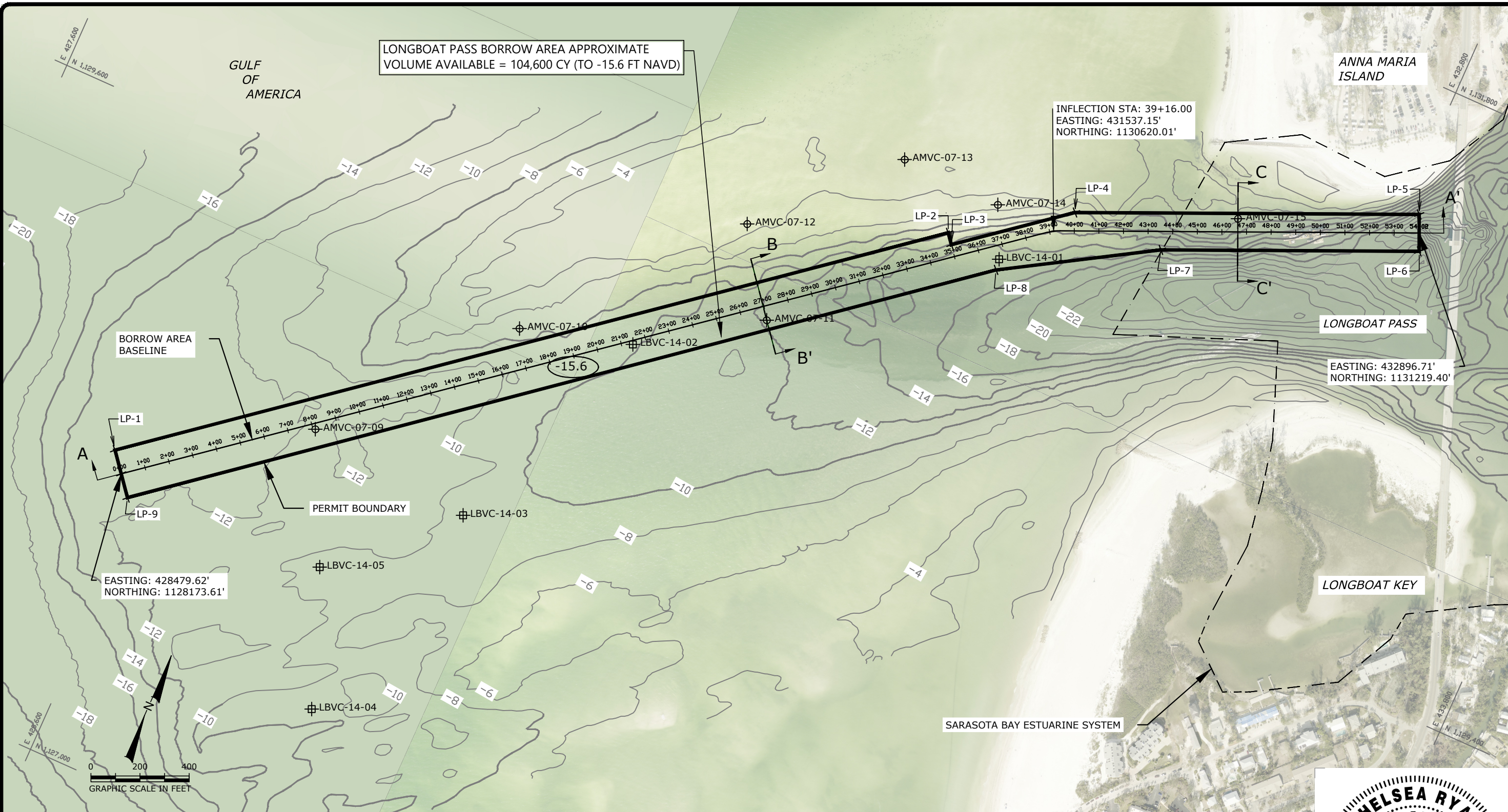
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Print Scale:	AS NOTED	Project No.:	2024192

COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 CROSS SECTIONS

DRAWING NO.
XS-3
 SHEET 9 OF 12

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LONGBOAT PASS BORROW AREA DESIGN CUT
(-13.6 FT NAVD)
POINTS OF INFLECTION COORDINATES

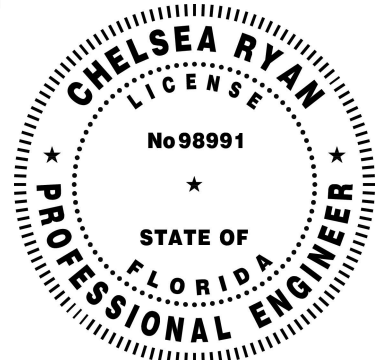
Easting	Northing	Inflection Point Name
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431149'	1130439'	LP-2
431180'	1130400'	LP-3
431586'	1130725'	LP-4
432867'	1131288'	LP-5
432927'	1131151'	LP-6
431966'	1130729'	LP-7
431388'	1130381'	LP-8
428542'	1128096'	LP-9

NOTES:

- ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, THE NORTH AMERICAN DATUM, 1983 (NAD 83).
- DATE OF BATHYMETRIC SURVEY: NOVEMBER 2025 CONDUCTED BY APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC (APTIM).
- THE MAXIMUM EXCAVATION ELEVATIONS SHOWN HEREON ARE THE MAXIMUM DEPTHS ALLOWED WITHIN THE BORROW AREA PER THE PERMITS INCLUDING OVERDEPTH, AND WILL BE EVALUATED BASED UPON AFTER DREDGE (AD) SURVEYS. SEE SHEETS BA-2 AND BA-3 FOR CROSS-SECTIONS.
- BACKGROUND IMAGERY IS THE 2025 AERIAL FROM FDOT.
- THE AVAILABLE VOLUME WAS CALCULATED TO THE MAXIMUM EXCAVATION ELEVATION (-15.6 FT.) BASED UPON THE NOVEMBER 2025 SURVEY. CONDITIONS MAY VARY AT THE TIME OF CONSTRUCTION.
- THE BORROW AREA SHALL BE DREDGED IN A CONTINUOUS FASHION. REFER TO THE ORDER OF WORK IN THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LEGEND:

- 15.6' MAXIMUM EXCAVATION ELEVATION
- △ R-33 FDEP MONUMENTS
- ⊕ AMVC-07-10 2007 APTIM VIBRACORES
- ⊕ LBVC-14-05 2014 APTIM VIBRACORES
- ~ BATHYMETRIC CONTOURS
- OFW BOUNDARY (SARASOTA BAY ESTUARINE SYSTEM)
- PERMITTED TEMPLATE (JCP 0298107-004-JC)



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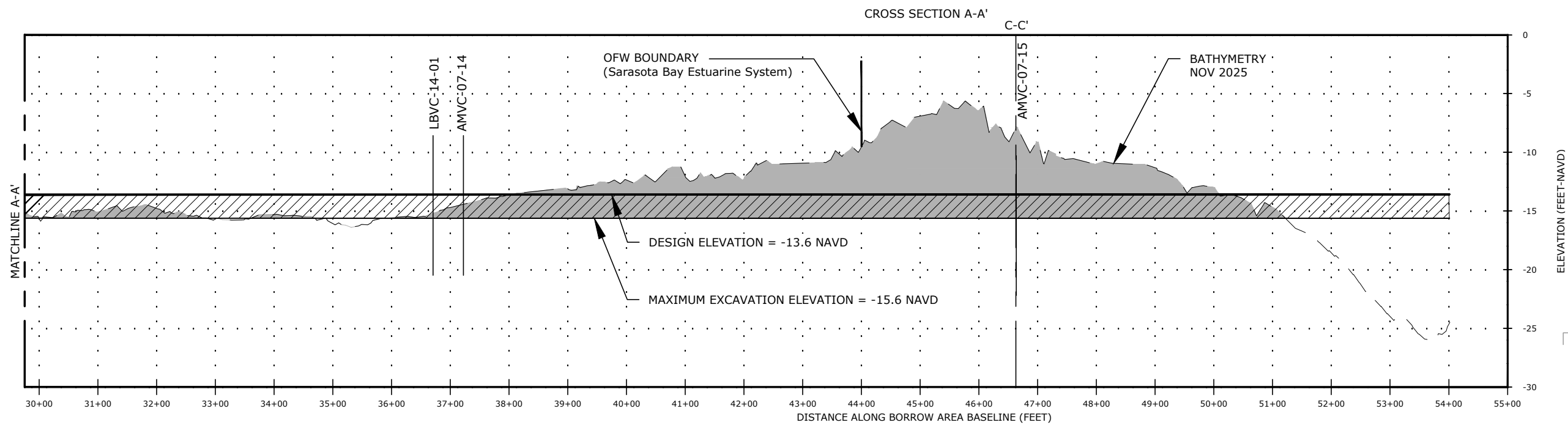
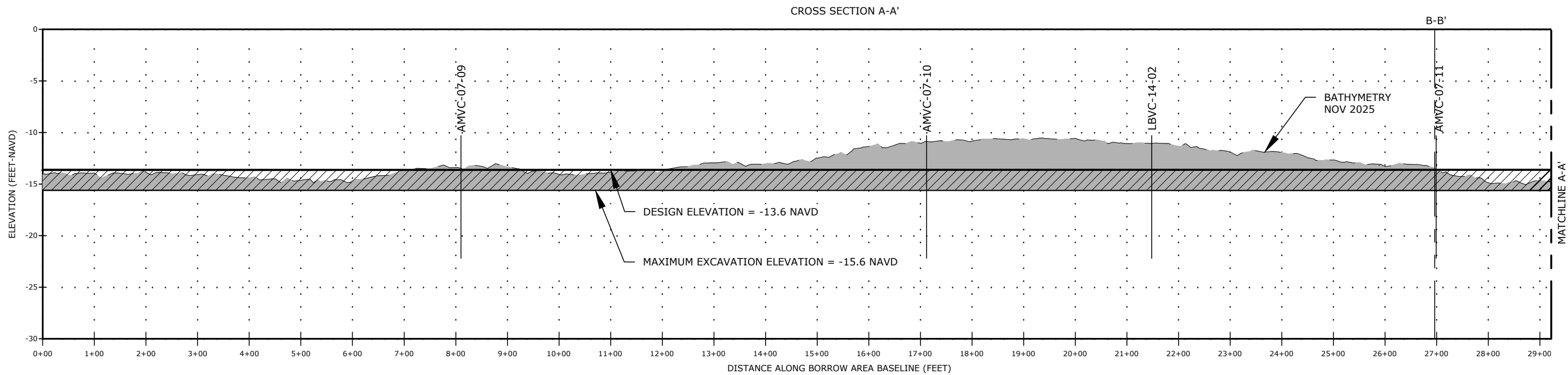


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Submitted by:	JG
Date:	3/5/2026
Project No.:	2024192
AS NOTED	

COQUINA BEACH HURRICANE IDALIA
FEMA REPAIR PROJECT
MANATEE COUNTY, FLORIDA
BORROW AREA
PLAN VIEW

DRAWING NO.
BA-1
SHEET 10 OF 12

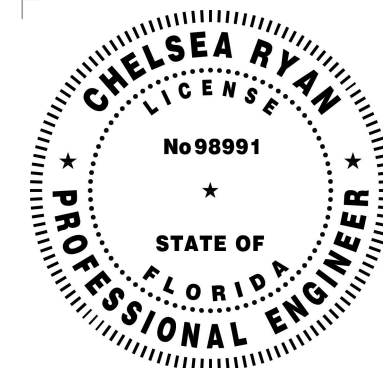
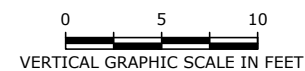


NOTES:

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- VIBRACORES COLLECTED BY APTIM IN JULY 2007 AND JULY 2014 PRIOR TO 2016 DREDGING. SEE TECHNICAL SPECIFICATIONS FOR GEOTECHNICAL REPORT.
- VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINES BUT ARE SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL LAYER THICKNESSES AND MATERIAL MAY VARY. DREDGING AND SAND MOVEMENT HAVE OCCURRED IN THIS BORROW AREA SINCE VIBRACORE COLLECTION.
- SEE SHEET BA-1 FOR LOCATION OF CORES AND CROSS SECTIONS.
- THE MAXIMUM EXCAVATION ELEVATIONS SHOWN HEREON ARE THE MAXIMUM DEPTHS ALLOWED WITHIN THE BORROW AREAS PER THE PERMITS INCLUDING OVERDEPTH, AND WILL BE EVALUATED BASED UPON AFTER DREDGE (AD) SURVEYS.

LEGEND:

- DREDGE AREA
- OVERDEPTH



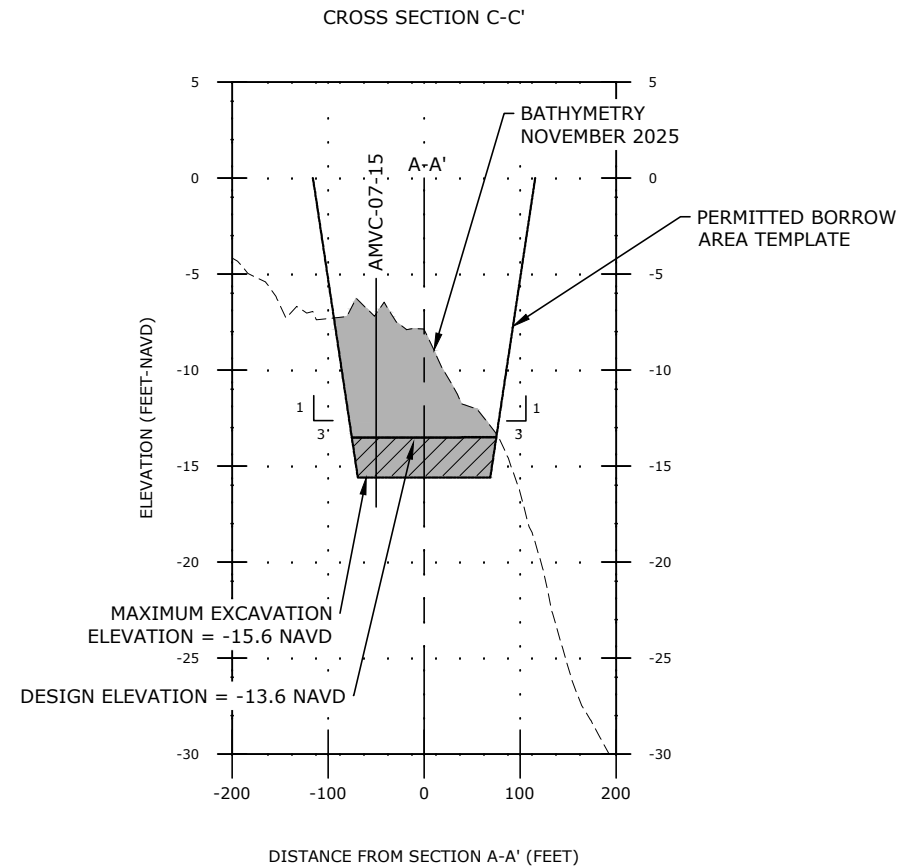
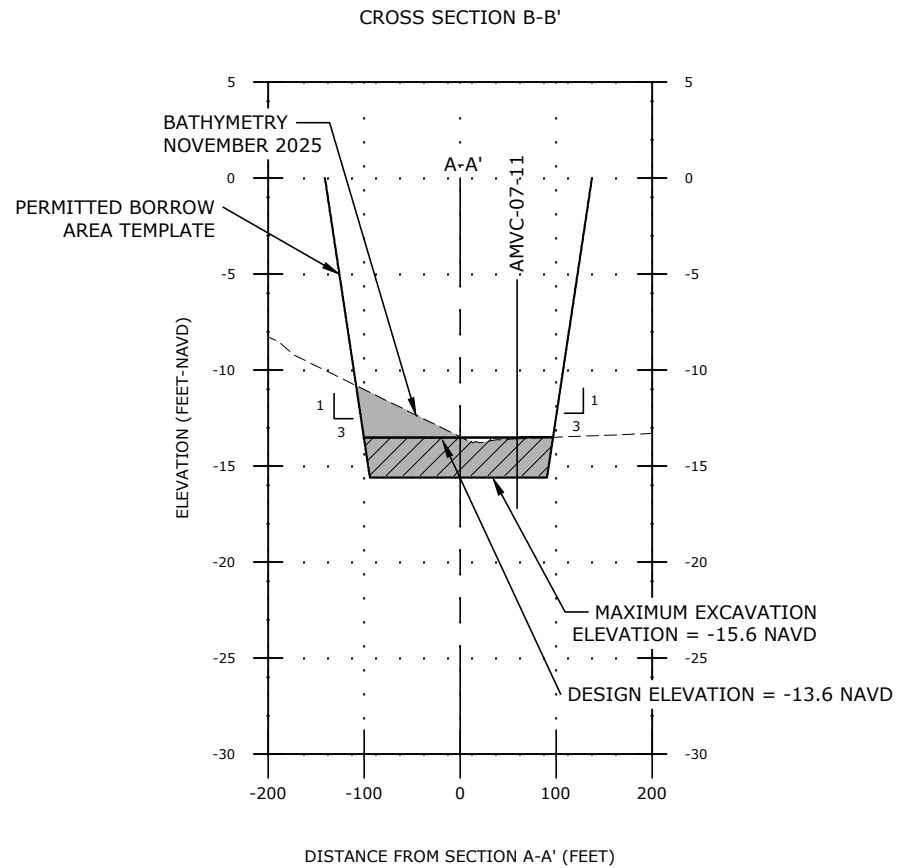
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Date:	Submitted by:
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2024192	

COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA
 BORROW AREA
 CROSS SECTIONS

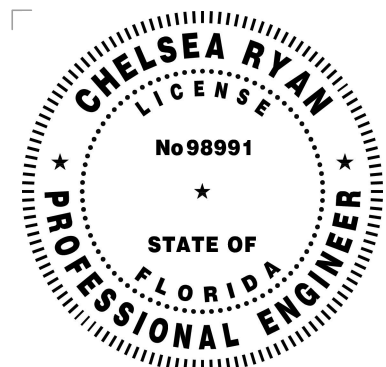
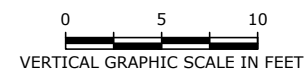


NOTES:

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6. SEE SHEET BA-1 FOR LOCATION OF CORES AND CROSS SECTIONS.
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LEGEND:

- DREDGE AREA
- OVERDEPTH



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Designed by: CR	Checked by:
Drawn by: JG	Reviewed by:
Date: 3/5/2026	Submitted by:
Print Scale: AS NOTED	Project No.: 2024192

COQUINA BEACH HURRICANE IDALIA
 FEMA REPAIR PROJECT
 MANATEE COUNTY, FLORIDA

BORROW AREA
 CROSS SECTIONS

DRAWING NO.

BA-3

SHEET 12 OF 12

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