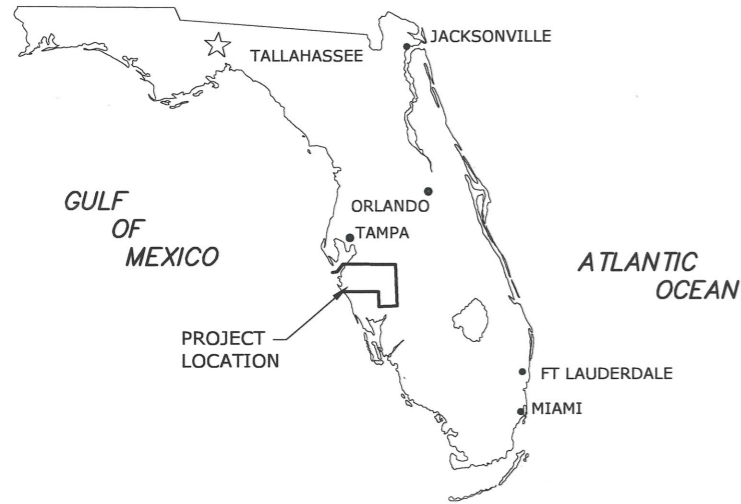


COQUINA BEACH STORM DAMAGE RESTORATION PROJECT

PREPARED FOR
MANATEE COUNTY, FLORIDA



MANATEE COUNTY
BOARD OF COUNTY COMMISSIONERS

COMMISSIONERS

JAMES SATCHER
REGGIE BELLAMY
KEVIN VAN OSTENBRIDGE
MISTY SERVIA
VANESSA BAUGH
CAROL WHITMORE
GEORGE KRUSE

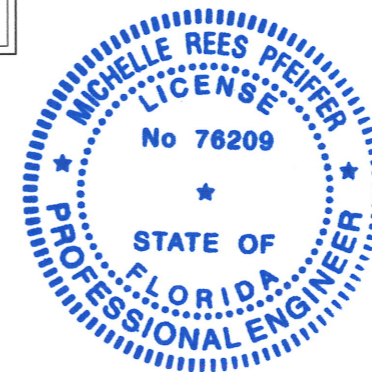
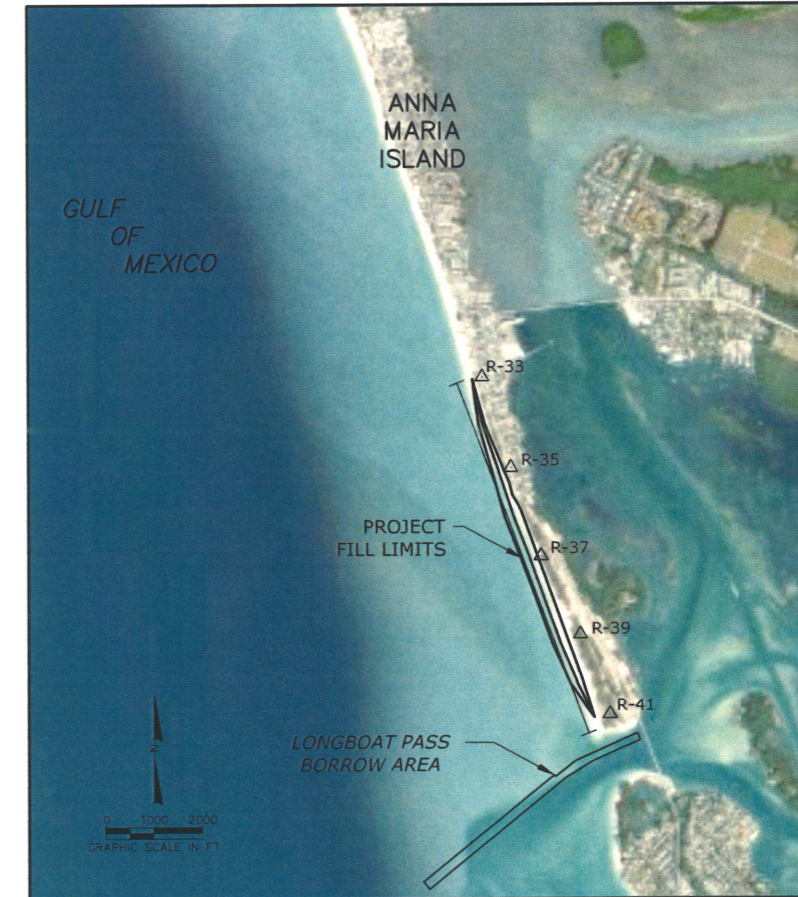
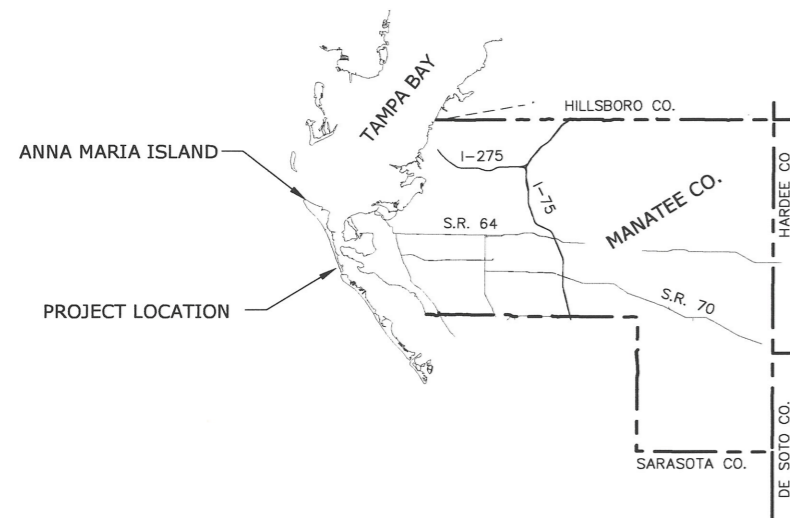
COUNTY ADMINISTRATOR

CHERI CORYEA

DIRECTOR OF PARKS & NATURAL RESOURCES DEPARTMENT

CHARLIE HUNSICKER

| SHEET INDEX | |
|-------------|----------------------------------|
| 1 | COVER SHEET |
| 2 | CONTROL SHEET |
| 3-5 | PROJECT PLAN VIEWS |
| 6-8 | CROSS SECTIONS |
| 9 | BORROW AREA BATHYMETRY PLAN VIEW |
| 10-11 | BORROW AREA CROSS SECTIONS |



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

Michelle Pfeiffer
MICHELLE REES PFEIFFER P.E. NO. 76209

12/4/20
DATE

COASTAL PROTECTION ENGINEERING LLC
 5301 NORTH FEDERAL HWY
 SUITE 335
 BOCA RATON, FLORIDA 33487
 PH. (561) 565-5100
 C.O.A. FL. #33370
 www.coastalprotectioneng.com



| Reference File | Designed by | Checked by | REVISIONS |
|----------------|-------------|--------------|--------------------------|
| MRP | AMB | AMB | No. Date Description |
| Drawn by | Reviewed by | Submitted by | |
| GK | TP | MRP | |
| Date: | Date: | Comm. No.: | |
| 12/01/20 | 12/01/20 | 6.31013369 | |
| Prot. Scale: | AS NOTED | | |

COQUINA BEACH
 STORM DAMAGE RESTORATION PROJECT
 MANATEE COUNTY, FLORIDA
 COVER SHEET

DRAWING NO.
 CS-1
 SHEET 1 OF 11

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P:\Projects\531013589 - 2020 Coquina Beach Restoration\CAD\Construction\531013589_Control.dwg - Dec 03, 2020 @ 4:37pm - Julia Brandt

| STATION | EASTING | NORTHING | PERPENDICULAR DISTANCE TO NEXT STATION (FT) | CUMULATIVE PERPENDICULAR DISTANCE TO NEXT STATION (FT) |
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| 1+00 | 429282.14 | 1139558.66 | 100 | 100 |
| 2+00 | 429316.51 | 1139464.75 | 100 | 200 |
| 3+00 | 429350.88 | 1139370.85 | 100 | 300 |
| 4+00 | 429385.26 | 1139276.94 | 100 | 400 |
| 5+00 | 429419.63 | 1139183.03 | 100 | 500 |
| 6+00 | 429454.00 | 1139089.13 | 100 | 600 |
| 7+00 | 429488.38 | 1138995.22 | 100 | 700 |
| 8+00 | 429522.75 | 1138901.31 | 100 | 800 |
| 9+00 | 429557.12 | 1138807.41 | 100 | 900 |
| 10+00 | 429591.50 | 1138713.50 | 100 | 1000 |
| 11+00 | 429625.87 | 1138619.59 | 100 | 1100 |
| 12+00 | 429660.24 | 1138525.69 | 100 | 1200 |
| 13+00 | 429694.62 | 1138431.78 | 100 | 1300 |
| 14+00 | 429728.99 | 1138337.87 | 100 | 1400 |
| 15+00 | 429763.37 | 1138243.97 | 100 | 1500 |
| 16+00 | 429797.74 | 1138150.06 | 100 | 1600 |
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| 18+00 | 429866.49 | 1137962.25 | 100 | 1800 |
| 19+00 | 429900.86 | 1137868.34 | 62 | 1900 |
| 19+62 | 429922.17 | 1137810.12 | 138 | 1962 |
| 21+00 | 429969.61 | 1137680.53 | 100 | 2100 |
| 22+00 | 430003.98 | 1137586.62 | 100 | 2200 |
| 23+00 | 430038.35 | 1137492.71 | 100 | 2300 |
| 24+00 | 430072.73 | 1137398.81 | 100 | 2400 |
| 25+00 | 430107.10 | 1137304.90 | 100 | 2500 |
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| 34+00 | 430416.46 | 1136459.74 | 100 | 3400 |
| 35+00 | 430450.84 | 1136365.84 | 100 | 3500 |
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| 41+00 | 430657.08 | 1135802.40 | 100 | 4100 |
| 42+00 | 430691.45 | 1135708.49 | 100 | 4200 |
| 43+00 | 430725.82 | 1135614.58 | 100 | 4300 |
| 44+00 | 430760.20 | 1135520.68 | 100 | 4400 |

| STATION | EASTING | NORTHING | PERPENDICULAR DISTANCE TO NEXT STATION (FT) | CUMULATIVE PERPENDICULAR DISTANCE TO NEXT STATION (FT) |
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| 46+00 | 430828.95 | 1135332.86 | 100 | 4600 |
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| 84+00 | 432135.14 | 1131764.41 | 100 | 8400 |
| 85+00 | 432169.51 | 1131670.50 | 100 | 8500 |
| 86+00 | 432203.89 | 1131576.60 | 100 | 8600 |
| 87+00 | 432238.26 | 1131482.69 | 118 | 8700 |
| 88+18 | 432278.74 | 1131372.10 | 0 | 8818 |

BASELINE COORDINATES

| POINT ID | EASTING | NORTHING |
|----------|-----------|------------|
| POB | 429247.76 | 1139652.57 |
| POE | 432278.74 | 1131372.10 |

**BENCHMARK CONTROL POINTS
SECOND ORDER CONTROL (A-MONUMENTS)**

| MONUMENT ID | EASTING | NORTHING | ELEVATION (NAVD) |
|-------------|-----------|------------|------------------|
| 13-85-A12 | 423077.07 | 1154584.54 | 6.76 |
| 13-85-A14 | 423709.02 | 1153696.78 | 5.11 |
| 13-84-B02 | 429233.65 | 1140350.53 | 4.11 |
| 13-84-B04 | 431550.08 | 1134466.04 | 5.10 |
| 13-84-B05 | 432888.28 | 1131815.28 | 11.01 |

WATER LEVEL TABLE

THE TIDAL DATUMS AT ANNA MARIA ISLAND, GULF OF MEXICO, ARE OBTAINED FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS), BASED ON EPOCH 1960-1978:

CONTROL TIDE STATION ID: 872-6282

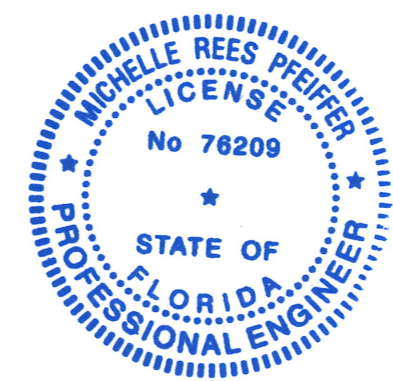
QUAD NUMBER: 2822
 QUAD NAME: BRADENTON BEACH
 QUARTER QUAD: NE
 TIDE INTERPOLATION POINT: 200904

ELEVATIONS OF TIDAL DATUMS ARE REFERENCED TO NAVD88, IN FEET:

MEAN HIGH WATER (MHW) = +0.23 FT NAVD
 MEAN LOW WATER (MLW) = -1.28 FT NAVD

NOTES:

- ALL PAY PROFILES SHALL BE SURVEYED AT AN AZIMUTH PERPENDICULAR TO THE BASELINE SHOWN ON SHEETS PV-1, PV-2 AND PV-3.
- CONTRACTOR WILL ONLY BE PAID FOR SAND PLACED WITHIN THE LINES AND GRADES AS SHOWN ON SHEETS PV-1, PV-2 AND PV-3.
- COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1990 (NAD83/90).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



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

Michelle Pfeiffer
 MICHELLE REES PFEIFFER P.E. NO. 76209

12/4/20
 DATE

COASTAL PROTECTION ENGINEERING LLC

PH. (661) 565-5100
C.O.A. FL. #33370

5301 NORTH FEDERAL HWY
SUITE 335
BOCA RATON, FLORIDA 33487
www.coastalprotectioneng.com

COASTAL PROTECTION ENGINEERING

| Checked by | Reviewed by | Submitted by | Comm. No. |
|------------|-------------|--------------|-----------|
| DO | JFP | MRP | 631013589 |

AS NOTED

COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA

CONTROL SHEET

DRAWING NO.
GN-1

SHEET 2 OF 11



EROSION CONTROL LINE
MEAN HIGH WATER 0836
AS ESTABLISHED BY COASTAL
PLANNING & ENGINEERING, INC. ON
MAY 14, 1992.

JAN 2020, MHW
(USACE)

4.0-FT CONTOUR
(JAN 2020, USACE)
SEE NOTE 6

EROSION CONTROL LINE
ESTABLISHED ON
APRIL 22, 2008

1V:15H

CONSTRUCTION
BERM CREST

CONSTRUCTION
TOE OF FILL

CORTEZ GROIN (TYP.)
SEE NOTE 5

NORTH FILL LIMIT

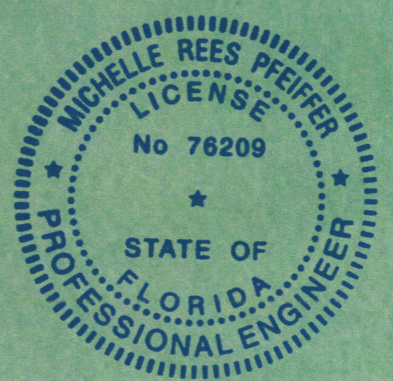
LEGEND:

△ FDEP MONUMENT

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 2020 AERIAL FROM MANATEE COUNTY.
- LANDWARD LIMIT OF FILL IS THE +4.0 FT NAVD CONTOUR (+1.0 FT UPPER TOLERANCE) OR THE SEAWARD LIMIT OF VEGETATION, UPLAND STRUCTURE, OR DEVELOPMENT.
- LAYOUT BEACH FILL PER CROSS SECTIONS. SITE SPECIFIC FIELD ADJUSTMENTS TO THE FILL TEMPLATE MAY BE NECESSARY TO TIE INTO EXISTING TOPOGRAPHY AND AT LOCATIONS SUCH AS UPLAND STRUCTURES, GROINS, PIERS, LIFEGUARD TOWERS, AND BEACH ACCESS POINTS.
- 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, UNDISTURBED, AND PROTECTED TO PREVENT DAMAGE FROM CONSTRUCTION OPERATIONS.
- THE 4.0-FT CONTOUR SHOWN IS BASED ON A JANUARY 2020 SURVEY COLLECTED BY THE U.S. ARMY CORPS OF ENGINEERS. A SEPARATE FILL PLACEMENT EVENT OCCURRED IN THIS PROJECT AREA IN NOVEMBER 2020; THEREFORE, THE 4.0 FT CONTOUR WILL VARY AT THE TIME OF CONSTRUCTION FROM THE CONTOUR SHOWN.
- THE BEACH FILL TEMPLATE SHOWN IS THE PERMITTED TEMPLATE. FILL PLACEMENT SHALL BE COMPLETED TO ACHIEVE THE BID VOLUME WITHIN THE PERMITTED TEMPLATE.

GRAPHIC SCALE IN FT
0 50 100



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

Michelle Pfeiffer
MICHELLE REES PFEIFFER P.E. NO. 76209

12/4/20
DATE

COASTAL PROTECTION ENGINEERING LLC
5301 NORTH FEDERAL HWY
SUITE 336
BOCA RATON, FLORIDA 33487
www.coastalprotectioneng.com

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

| REVISIONS | Checked by: | Reviewed by: | Submitted by: | Comm. No.: | No. | Date | Description |
|-----------|-------------|--------------|---------------|------------|-----|------|-------------|
| | AMB | TP | MRP | 651013369 | | | |

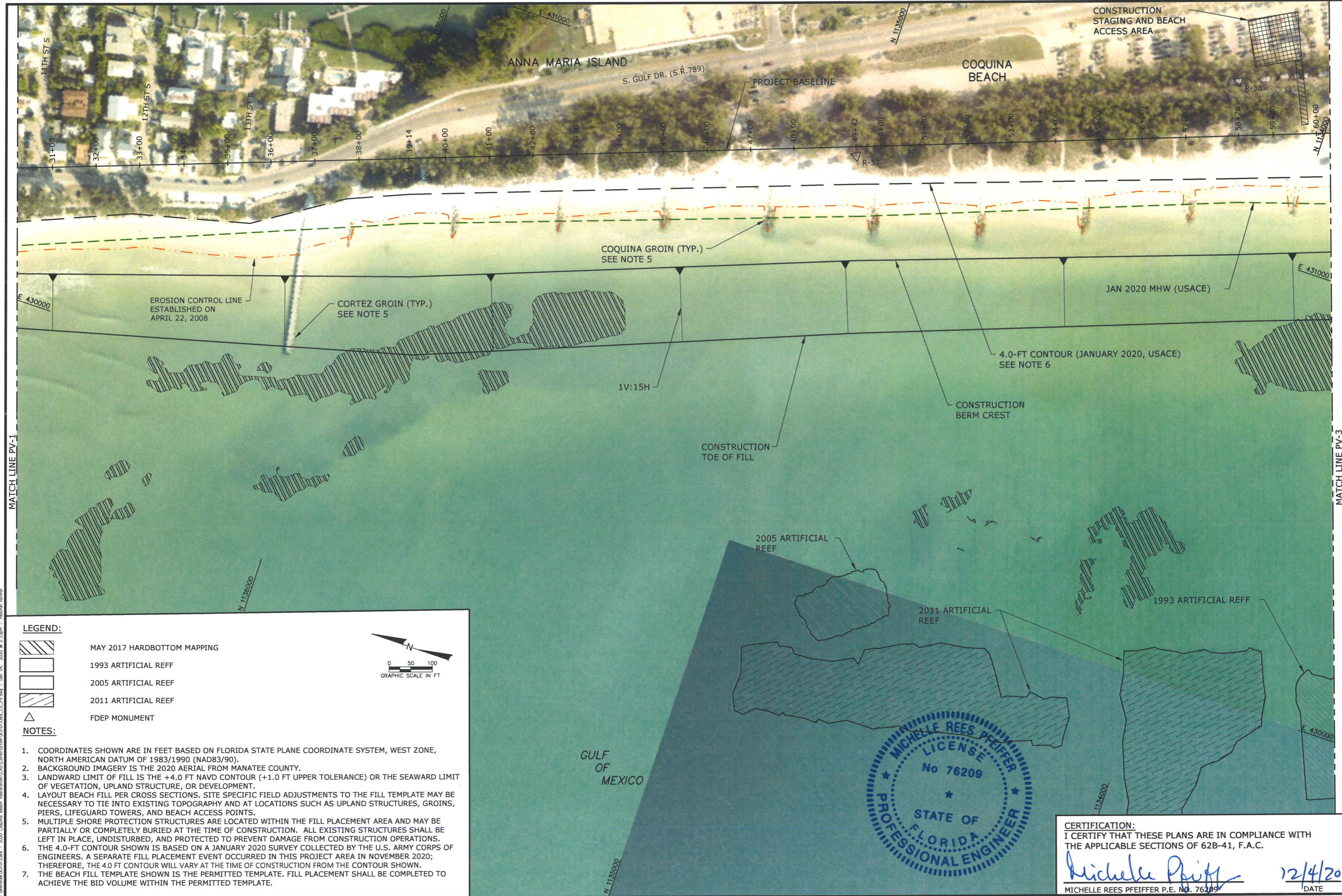
Reference File: MRP, JEB, 12/01/20, AS NOTED

COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA

PLAN VIEW

DRAWING NO. PV-1

SHEET 3 OF 11



MATCH LINE PV-1

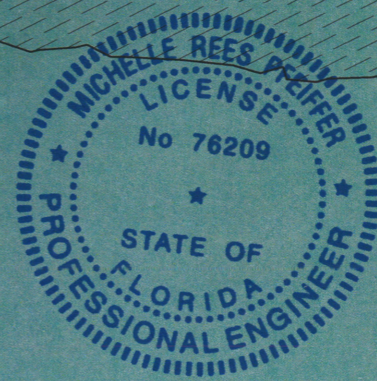
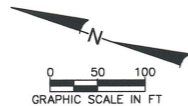
MATCH LINE PV-3

LEGEND:

- MAY 2017 HARDBOTTOM MAPPING
- 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 2020 AERIAL FROM MANATEE COUNTY.
3. LANDWARD LIMIT OF FILL IS THE +4.0 FT NAVD CONTOUR (+1.0 FT UPPER TOLERANCE) OR THE SEAWARD LIMIT OF VEGETATION, UPLAND STRUCTURE, OR DEVELOPMENT.
4. LAYOUT BEACH FILL PER CROSS SECTIONS. SITE SPECIFIC FIELD ADJUSTMENTS TO THE FILL TEMPLATE MAY BE NECESSARY TO TIE INTO EXISTING TOPOGRAPHY AND AT LOCATIONS SUCH AS UPLAND STRUCTURES, GROINS, PIERS, LIFEGUARD TOWERS, AND BEACH ACCESS POINTS.
5. 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, UNDISTURBED, AND PROTECTED TO PREVENT DAMAGE FROM CONSTRUCTION OPERATIONS.
6. THE 4.0-FT CONTOUR SHOWN IS BASED ON A JANUARY 2020 SURVEY COLLECTED BY THE U.S. ARMY CORPS OF ENGINEERS. A SEPARATE FILL PLACEMENT EVENT OCCURRED IN THIS PROJECT AREA IN NOVEMBER 2020; THEREFORE, THE 4.0 FT CONTOUR WILL VARY AT THE TIME OF CONSTRUCTION FROM THE CONTOUR SHOWN.
7. THE BEACH FILL TEMPLATE SHOWN IS THE PERMITTED TEMPLATE. FILL PLACEMENT SHALL BE COMPLETED TO ACHIEVE THE BID VOLUME WITHIN THE PERMITTED TEMPLATE.



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Michelle Pfeiffer 12/4/20
MICHELLE REES PFEIFFER P.E. NO. 76209 DATE

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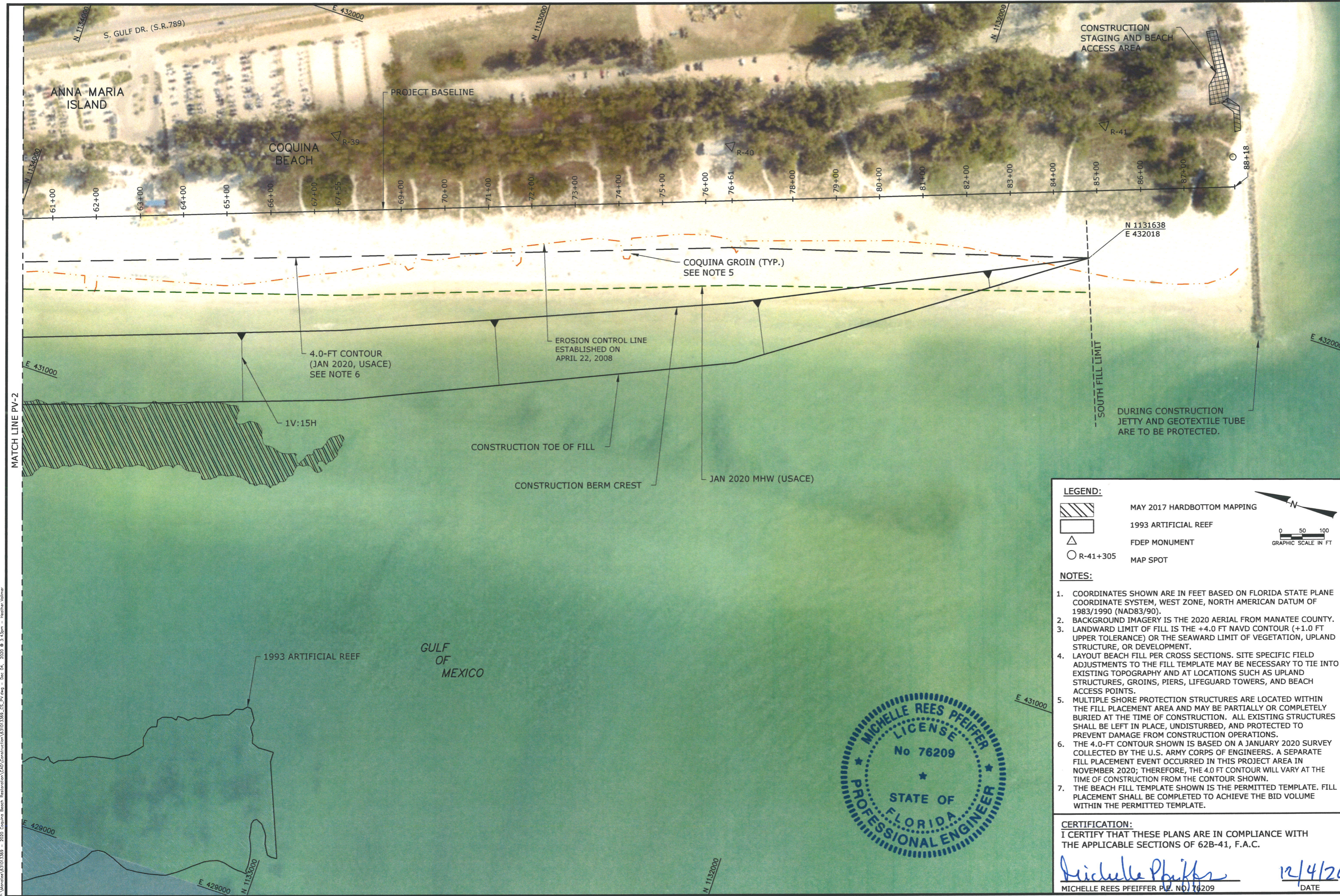
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| Reference Files: | Designed by: MRP | Checked by: DO |
| | Drawn by: JEB | Reviewed by: JP |
| | Date: 12/01/20 | Submitted by: MRP |
| | Plot Scale: AS NOTED | Comm. No.: 631013369 |

COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA
PLAN VIEW

DRAWING NO.
PV-2
SHEET 4 OF 11

P:\Projects\631013369 - 2020 Coquina Beach Restoration\CAD\Construction\631013369_CS_PV.dwg - Dec 04, 2020 @ 2:23pm - Heather Vornier



LEGEND:

- MAY 2017 HARDBOTTOM MAPPING
- 1993 ARTIFICIAL REEF
- FDEP MONUMENT
- R-41+305 MAP SPOT

NOTES:

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- THE 4.0-FT CONTOUR SHOWN IS BASED ON A JANUARY 2020 SURVEY COLLECTED BY THE U.S. ARMY CORPS OF ENGINEERS. A SEPARATE FILL PLACEMENT EVENT OCCURRED IN THIS PROJECT AREA IN NOVEMBER 2020; THEREFORE, THE 4.0 FT CONTOUR WILL VARY AT THE TIME OF CONSTRUCTION FROM THE CONTOUR SHOWN.
- THE BEACH FILL TEMPLATE SHOWN IS THE PERMITTED TEMPLATE. FILL PLACEMENT SHALL BE COMPLETED TO ACHIEVE THE BID VOLUME WITHIN THE PERMITTED TEMPLATE.

NOTES:

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Michelle Pfeiffer
 MICHELLE REES PFEIFFER P.E. NO. 76209

12/4/20
 DATE

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 C.O.A. FL. #33370
 www.coastalprotectioneng.com

COASTAL PROTECTION ENGINEERING

| REVISIONS | No. | Date | Description |
|-----------|-----|------|-------------|
| | | | |
| | | | |

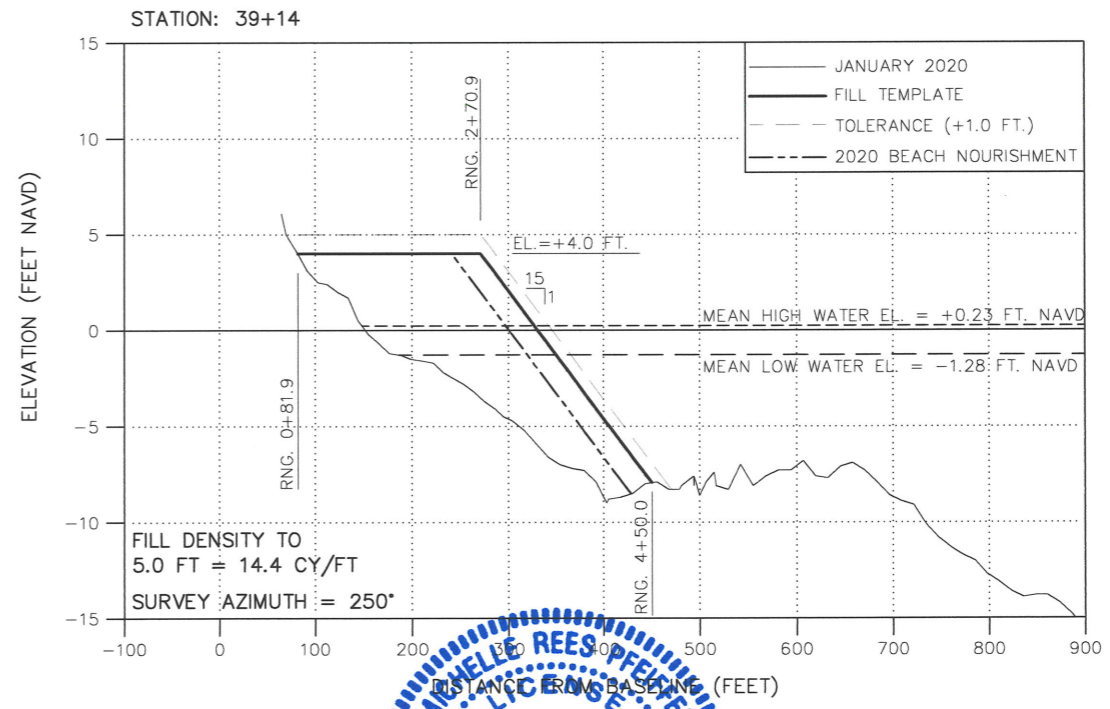
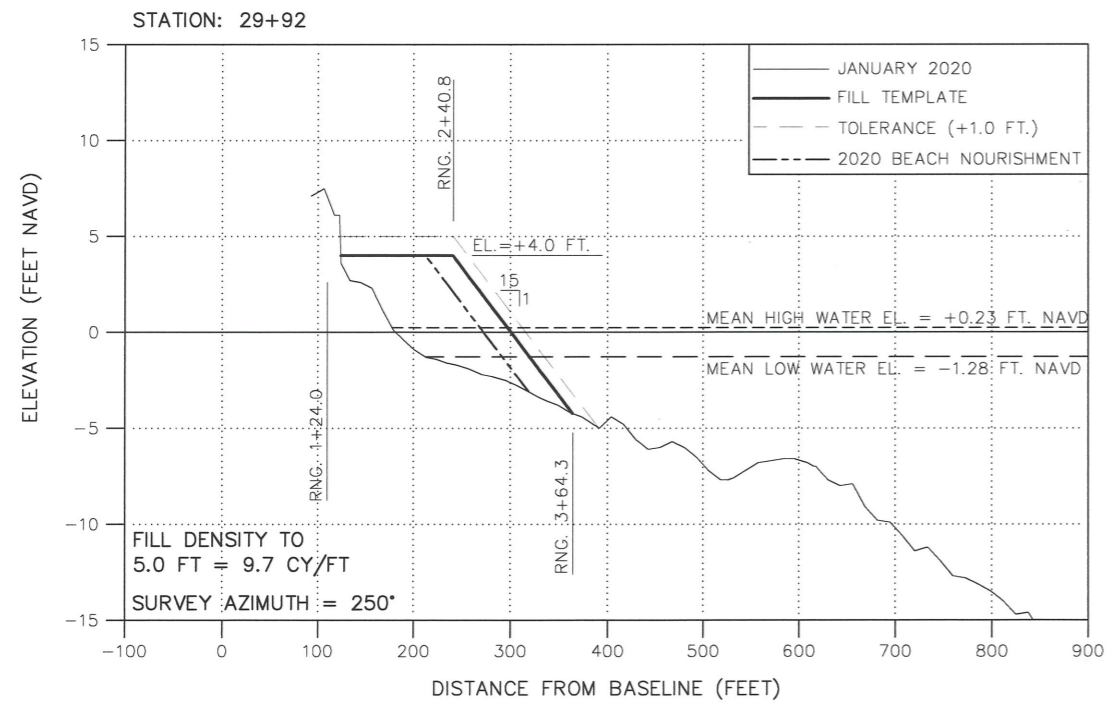
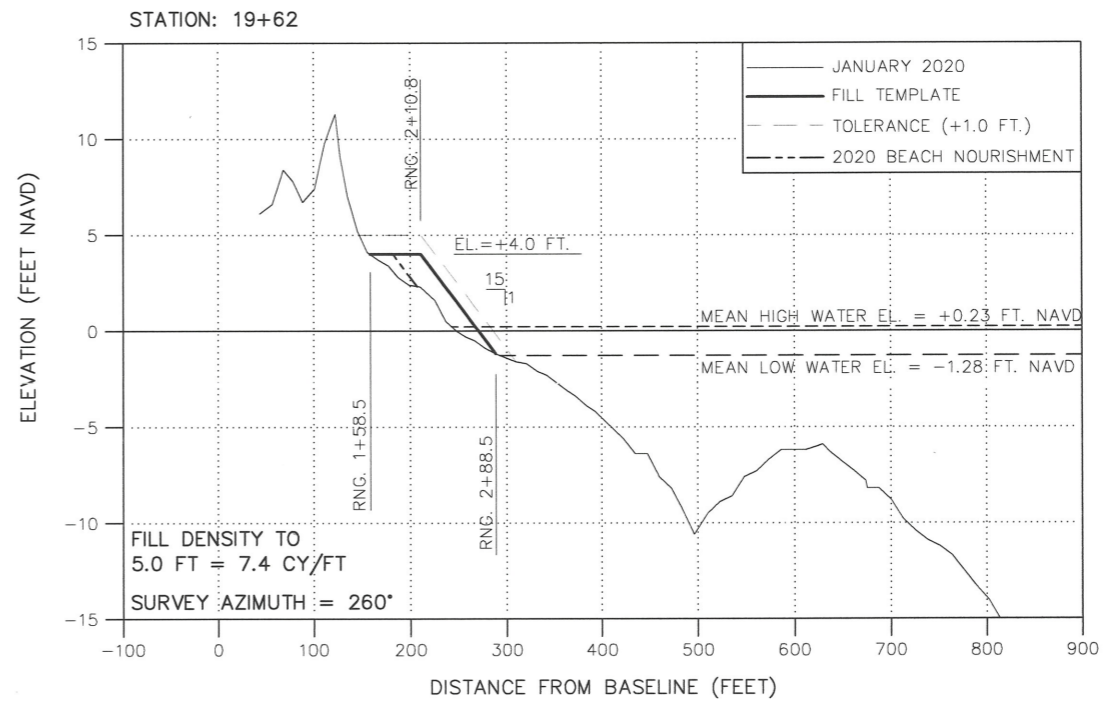
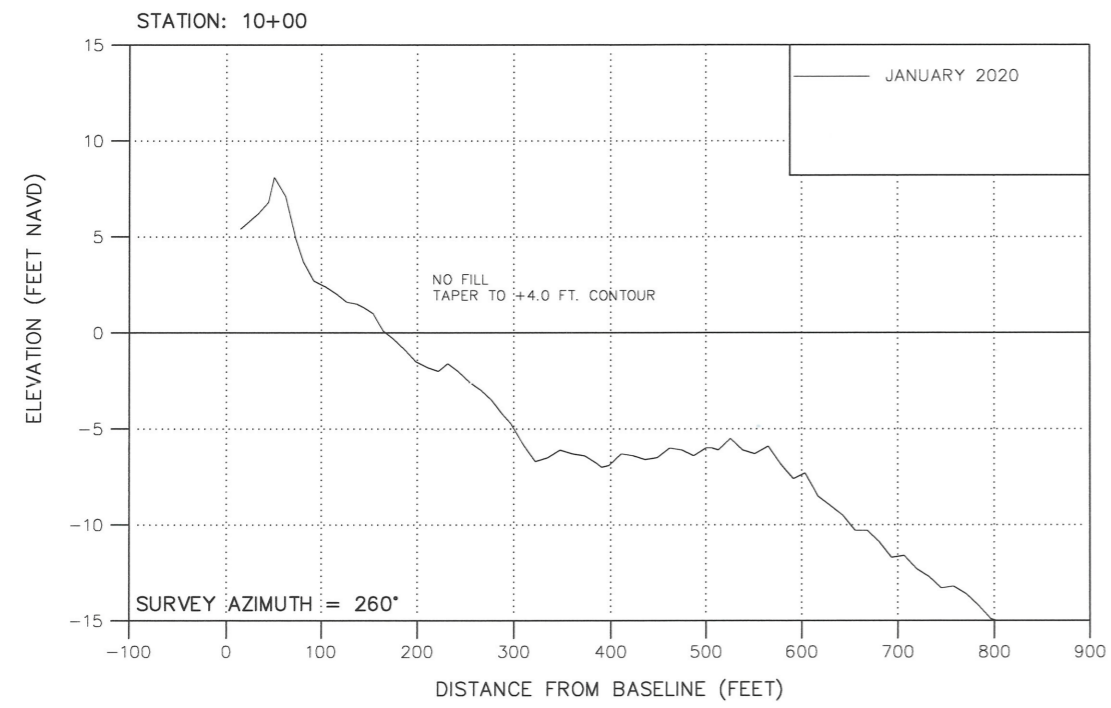
Designed by: MRP
 Drawn by: JEB
 Date: 12/01/20
 PLS: AS NOTED

Checked by: AMB
 Reviewed by: TP
 Submitted by: MRP
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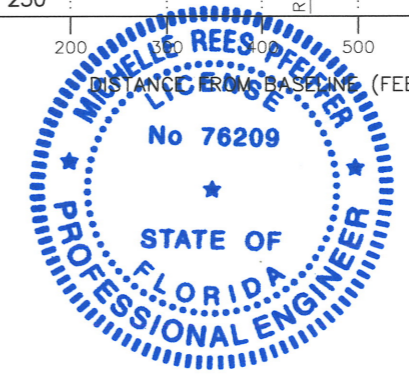
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 COQUINA BEACH
 STORM DAMAGE RESTORATION PROJECT
 MANATEE COUNTY, FLORIDA
 PLAN VIEW

DRAWING NO.
 PV-3
 SHEET 5 OF 11

P:\Projects\331013369 - 2020 Coquina Beach Restoration\CAD\Construction\331013369_CS_PV.dwg - Dec 04, 2020 @ 3:43pm - Heather Volmer



- NOTE:**
1. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1960-1978 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.
 2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).
 3. SURVEY AZIMUTHS PROVIDED FOR LAYOUT OF BEACH FILL. PAY PROFILES SHALL BE SURVEYED AS INDICATED ON CONTROL SHEET (CD).
 4. THE SURVEY SHOWN IS A JANUARY 2020 SURVEY COLLECTED BY THE U.S. ARMY CORPS OF ENGINEERS.
 5. A SEPARATE FILL PLACEMENT EVENT OCCURRED IN THIS PROJECT AREA IN NOVEMBER 2020, REFERRED TO AS THE 2020 BEACH NOURISHMENT. THE 2020 CONSTRUCTION TEMPLATE IS SHOWN ON THE CROSS-SECTION FOR REFERENCE.
 6. THE BEACH FILL TEMPLATE SHOWN IS THE PERMITTED TEMPLATE. FILL PLACEMENT SHALL BE COMPLETED TO ACHIEVE THE BID VOLUME WITHIN THE PERMITTED TEMPLATE.
 7. THE COUNTY RESERVES THE RIGHT TO RECALCULATE THE TARGET FILL DENSITIES BASED ON AN UPDATED SURVEY.



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

Michelle Pfeiffer
 MICHELLE REES PFEIFFER, P.E., No. 76209

12/4/20
 DATE

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 5301 NORTH FEDERAL HWY
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 PH. (561) 565-5100
 C.O.A. FL. #33370

COASTAL PROTECTION ENGINEERING

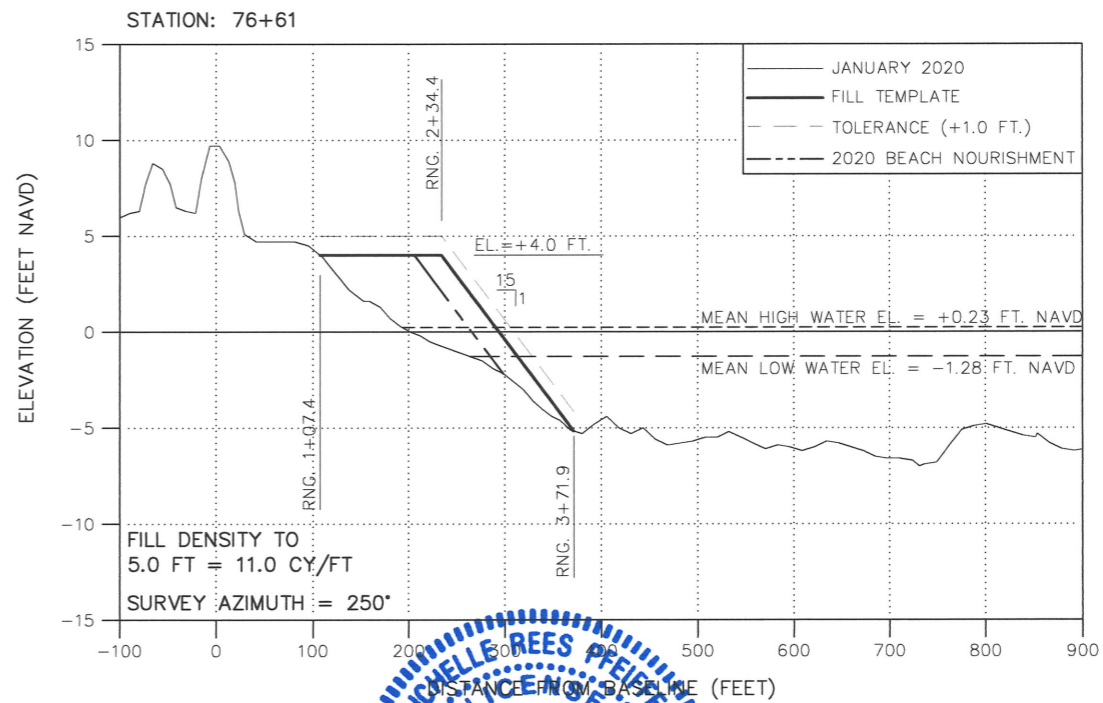
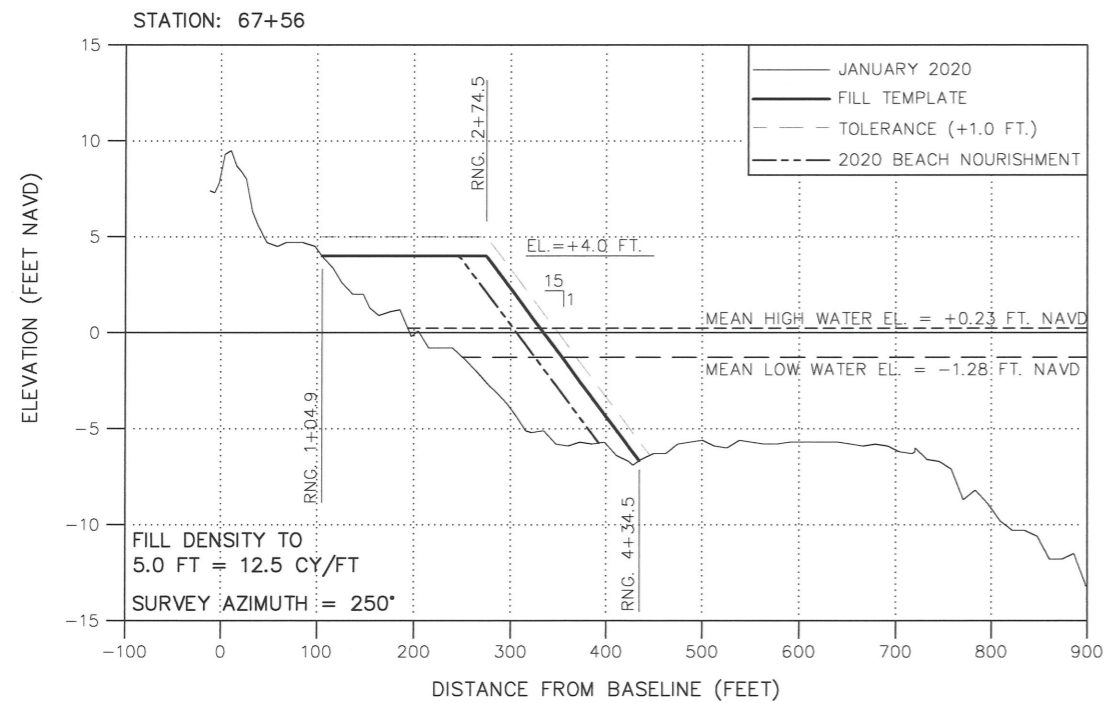
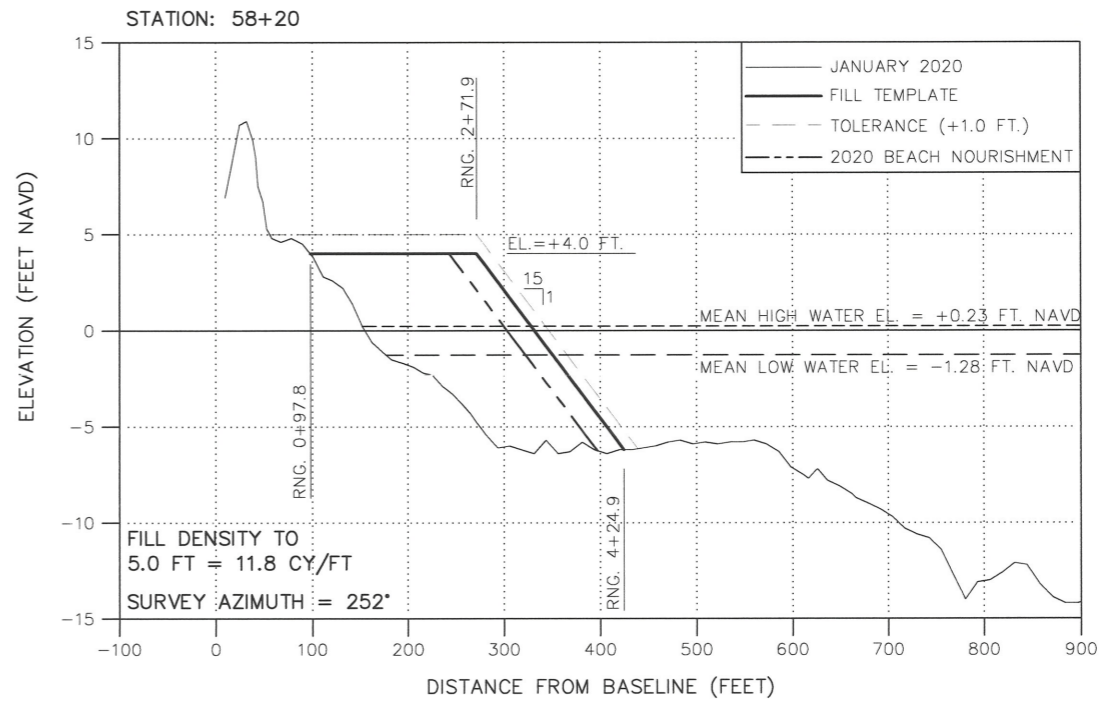
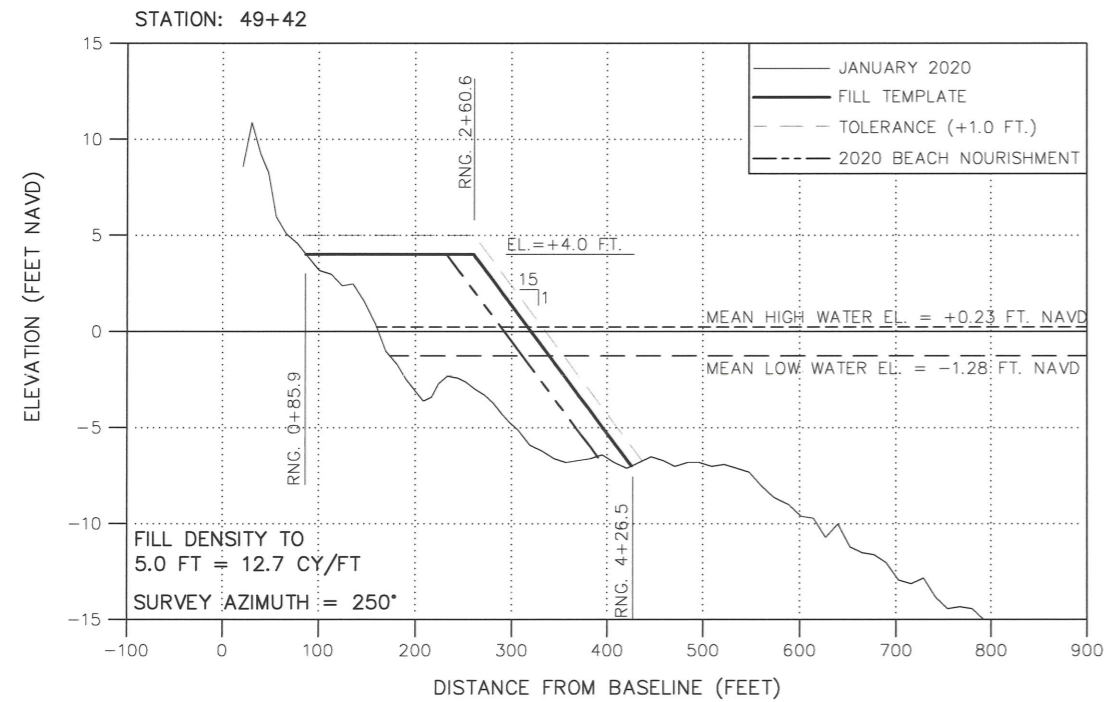
| REVISIONS | No. | Date | Description |
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Designed by: DD
 Checked by: DD
 Drawn by: RMV
 Date: 12/01/20
 Submitted by: MRP
 Comm. No.: 6.3101.3369
 Plot. Scale: AS NOTED

COQUINA BEACH STORM DAMAGE RESTORATION PROJECT
 MANATEE COUNTY, FLORIDA

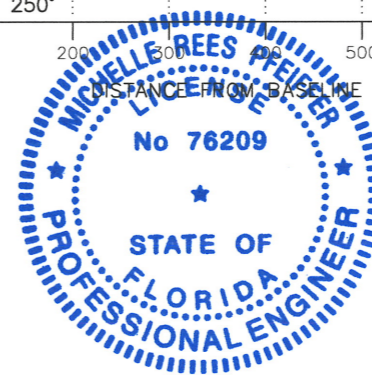
CROSS SECTIONS

DRAWING NO. XS-1
 SHEET 6 OF 11



NOTE:

1. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1960-1978 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.
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Michelle Pfeiffer
MICHELLE REES PFEIFFER P.E. NO. 76209

12/4/20
DATE

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C.O.A. FL. #33370

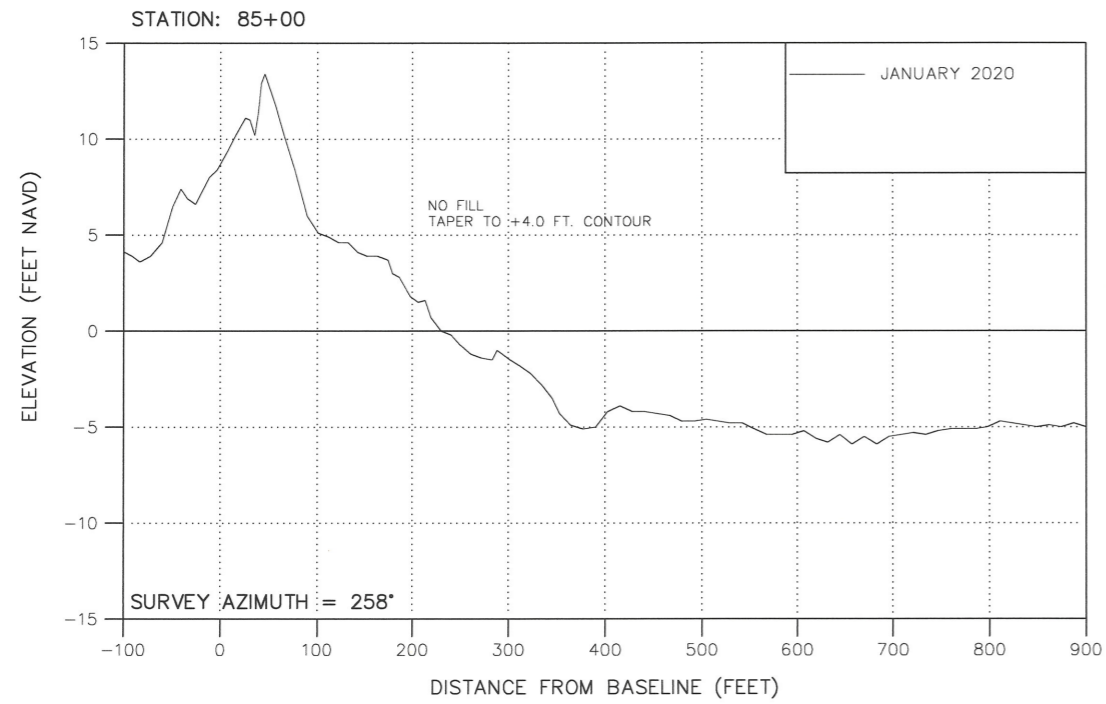


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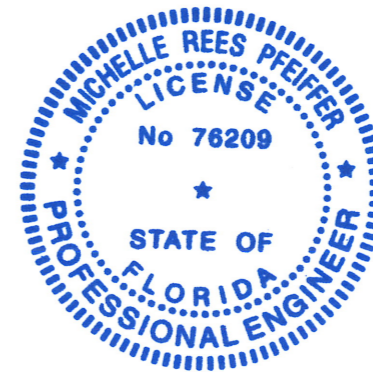
COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA
CROSS SECTIONS

DRAWING NO.
XS-2
SHEET 7 OF 11



NOTE:

1. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1960-1978 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.
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Michelle Pfeiffer
MICHELLE REES PFEIFFER P.E. NO. 76209
DATE 12/4/20

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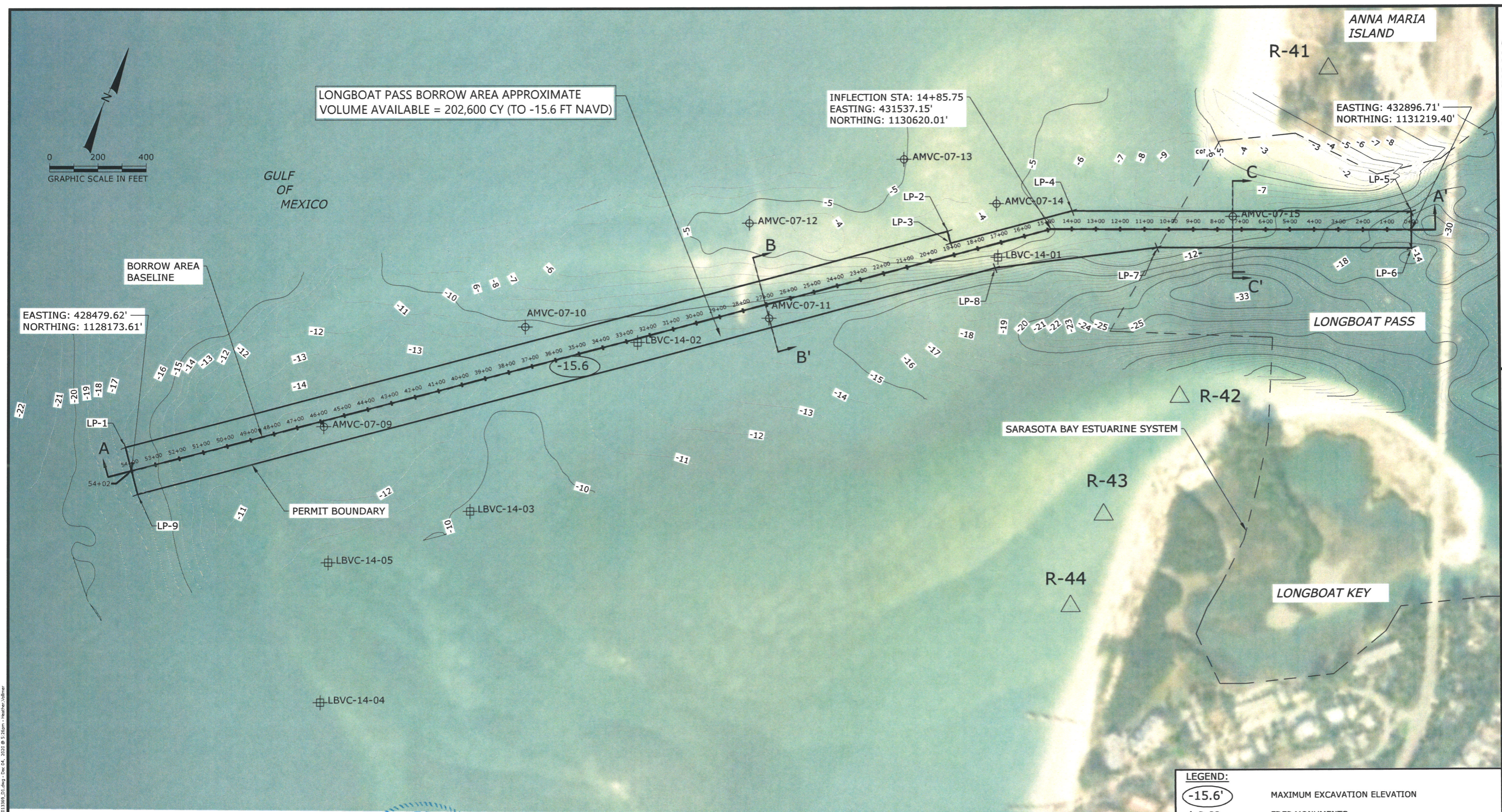
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| MP | DD |
| Drawn by: | Reviewed by: |
| GK | TP |
| Date: | Submitted by: |
| 12/01/20 | MRP |
| Proj. Scale: | Comm. No.: |
| AS NOTED | 6.310.3369 |

Reference Files:

COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA
CROSS SECTIONS

DRAWING NO.
XS-3
SHEET 8 OF 11

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LONGBOAT PASS BORROW AREA
POINTS OF INFLECTION COORDINATES

| Easting | Northing | Inflection Point Name |
|---------|----------|-----------------------|
| 428417' | 1128252' | LP-1 |
| 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: SEPTEMBER 2020 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.
- 2020 BACKGROUND IMAGERY FROM MAXAR.
- VIBRACORES COLLECTED BY APTIM IN JULY 2007 AND JULY 2014 PRIOR TO 2016 DREDGING. SEE TECHNICAL SPECIFICATIONS FOR GEOTECHNICAL REPORT.
- THE AVAILABLE VOLUME WAS CALCULATED TO THE MAXIMUM EXCAVATION ELEVATION (-15.6 FT.) BASED UPON THE SEPTEMBER 2020 SURVEY. CONDITIONS MAY VARY AT THE TIME OF CONSTRUCTION.
- THE BORROW AREA SHALL BE DREDGE FROM WEST TO EAST IN A CONTINUOUS FASHION, COMMENCING AT THE WESTERN TERMINUS OF THE BORROW AREA. REFER TO THE ORDER OF WORK IN 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
- 10 BATHYMETRIC CONTOURS
- OFW BOUNDARY (SARASOTA BAY ESTUARINE SYSTEM)
- PERMITTED TEMPLATE (JCP 0298107-004-JC)

CERTIFICATION:

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

Tara Brenner 12-4-2020
TARA BRENNER PG No. 2828 DATE

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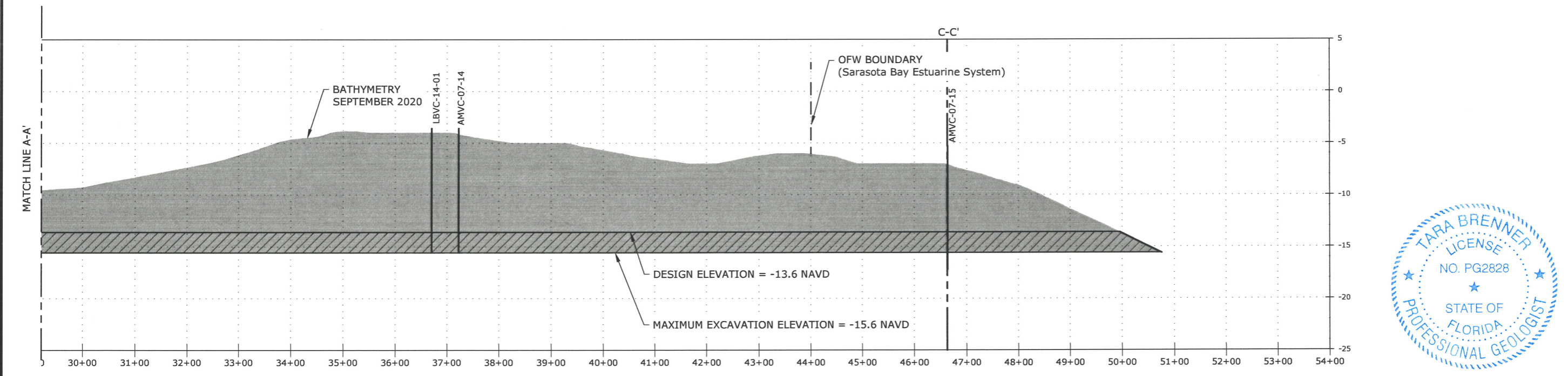
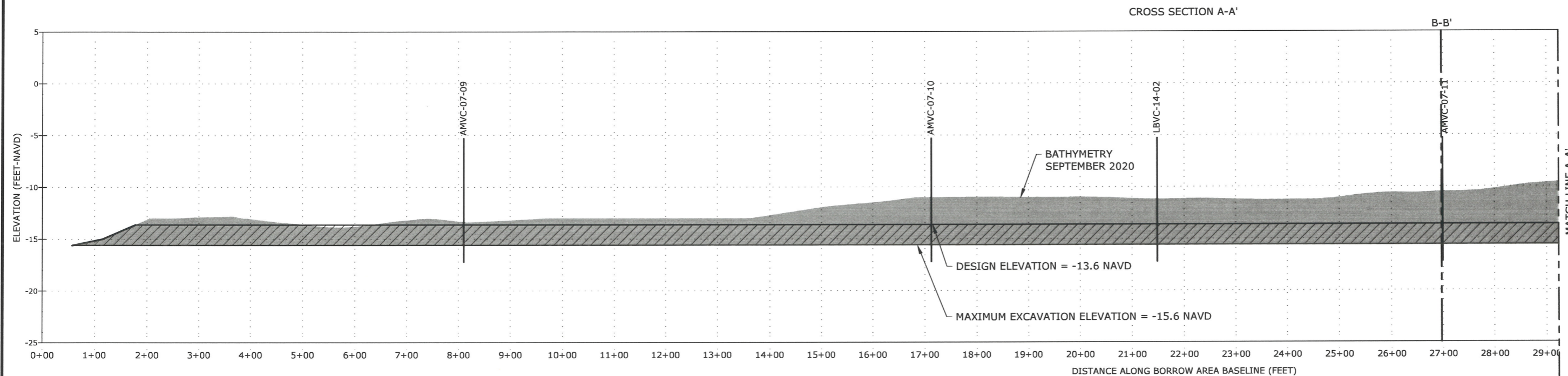
| REVISIONS | No. | Date | Description |
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| Designed by: MRP | Checked by: AMB |
| Drawn by: AY | Reviewed by: TP |
| Date: 12/01/20 | Submitted by: MRP |
| Plot Scale: AS NOTED | Comm. No.: 631013369 |

COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA

BORROW AREA
PLAN VIEW

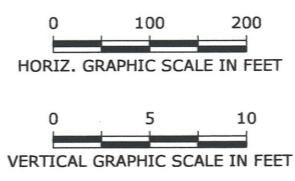
DRAWING NO. BA-1
SHEET 9 OF 11



- NOTES:**
- ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 - DATE OF BATHYMETRIC SURVEY WAS SEPTEMBER 2020 AND CONDUCTED BY APTIM.
 - 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



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

Tara Brenner
 TARA BRENNER PG No. 2828

12-4-2020
 DATE

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COQUINA BEACH
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 MANATEE COUNTY, FLORIDA

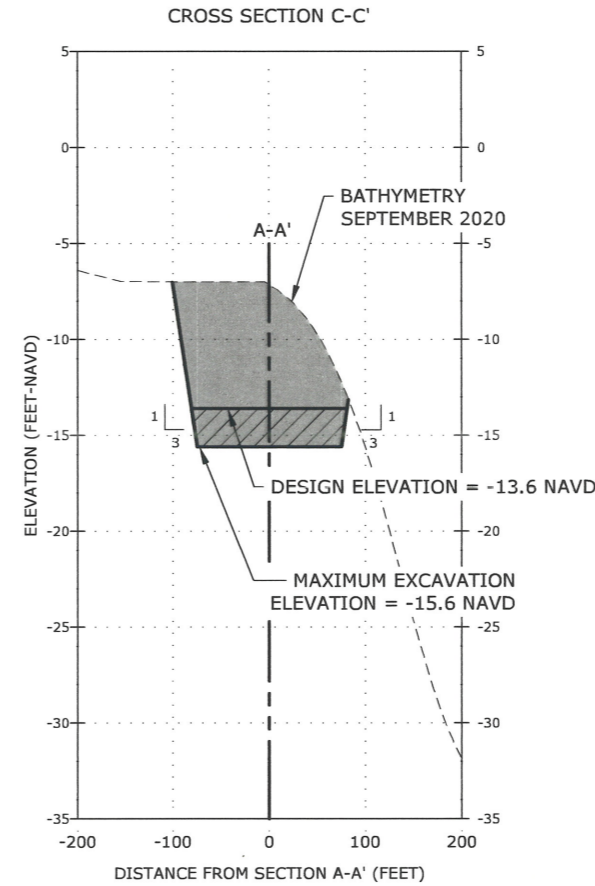
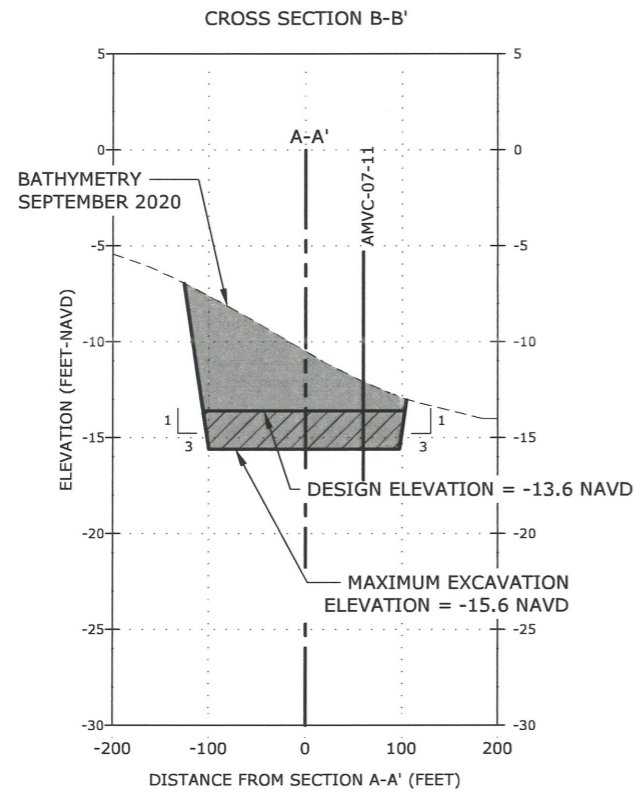
BORROW AREA
 CROSS SECTIONS

| Reference Files: | Designed by: | Checked by: |
|------------------|--------------|---------------|
| | MRP | AMB |
| | Drawn by: | Reviewed by: |
| | AY | TP |
| | Date: | Submitted by: |
| | 12/01/20 | MRP |
| | Plot Scale: | Comm. No.: |
| | AS NOTED | 631013369 |

| REVISIONS | No. | Date | Description |
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DRAWING NO. **BA-2**
 SHEET 10 OF 11

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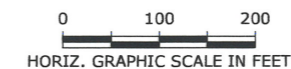


NOTES:

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

- DREDGE AREA
- OVERDEPTH



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

Tara Brenner
TARA BRENNER PG No. 2828

12-4-2020
DATE



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| Checked by: | Reviewed by: | Submitted by: | Comm. No.: |
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| AMB | TP | MRP | 631013369 |
| Drawn by: | Date: | Plot Scale: | |
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| REVISIONS | No. | Date | Description |
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COQUINA BEACH
STORM DAMAGE RESTORATION PROJECT
MANATEE COUNTY, FLORIDA
BORROW AREA
CROSS SECTIONS

DRAWING NO.

BA-3

SHEET 11 OF 11