



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
1002 WEST 23RD STREET, SUITE 350
PANAMA CITY, FLORIDA 32405

December 28, 2017

REPLY TO
ATTENTION OF

Regulatory Division
North Permits Branch
Panama City Permits Section
SAJ-2016-02556(NW-LSL)

Florida Department of Environmental Protection (FDEP)
C/o Ms. Jennifer Harper
108 Island Drive
Eastpoint, Florida 32328

Dear Ms. Harper:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on October 31, 2017, the file number SAJ-2016-02556. A review of the information and drawings provided indicates that the proposed work would result in the restoration, enhancement and stabilization of a large segment of eroded shoreline along the northern shoreline of Apalachicola Bay. Project components include installing approximately 0.53 acre of segmented oyster reef breakwaters and planting 1.92 acres of native saltmarsh vegetation along the shoreline. Oyster breakwater will be constructed of natural limestone, oyster shell or other suitable oyster substrate. The oyster breakwaters will be approximately 80'-90' long and 15' wide with 10'-15' gaps along the total shoreline distance of approximately 1,800'. The oyster breakwaters will be placed approximately 30' from the shoreline and have an approximate 5' crest width with a height that falls within the mean high and low water lines. During in-water construction, the contractor will install turbidity barriers around the immediate work area and adjacent resources to ensure that turbid waters do not escape the project area. No adverse impacts or dredging is proposed. The project is funded through the Natural Resource Damage Assessment (NRDA) program. The project is located waterward of 108 Island Drive in Section 31, Township 8 South, Range 6 West, Eastpoint, Franklin County, Florida. The affected waterway is the Apalachicola Bay.

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 13. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers'

(Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is:

<http://www.saj.usace.army.mil/Missions/Regulatory.aspx>

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 13. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. Reporting Address: The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to the following address:

a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Special Projects and Enforcement Branch, P.O. Box 4970, Jacksonville, Florida 32232-0019.

b. For electronic mail: SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB).

The Permittee shall reference this permit number, SAJ-2016-02556(NW - LSL), on all submittals.

2. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit, the Permittee shall provide a written notification of the date of commencement of authorized work to the Corps.

3. As-Built Certification: Within 60 days of completion of the work authorized by this permit, the Permittee shall submit as-built drawings of the authorized work and a completed "As-Built Certification By Professional Engineer" form (Attachment A) to the Corps. The as-built drawings shall be signed and sealed by a registered professional engineer and include the following:

a. A plan view drawing of the location of the authorized work footprint, as shown on the permit drawings, with transparent overlay of the work as constructed in the same scale as the permit drawings on 8½-inch by 11-inch sheets. The plan view drawing should show all "earth disturbance," including wetland impacts and water management structures.

b. A list of any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the attached "As-Built Certification By Professional Engineer" form the deviations between the work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or "As-Built Certification By Professional Engineer" form does not constitute approval of any deviations by the Corps.

c. Include the Department of the Army permit number on all sheets submitted.

4. Agency Changes/Approvals: Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Panama City Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.

5. Assurance of Navigation and Maintenance: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

6. Posting of Permit: The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

7. Cultural Resources/Historic Properties:

a. No structure or work shall adversely affect impact or disturb properties listed in the *National Register of Historic Places* (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition ; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

8. Fill Material: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils

contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

9. Turbidity Barriers: Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend to the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all suspended and erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.

10. Species reporting: Any collision(s) with and/or injuries to any sea turtle, sawfish, whale, or sturgeon occurring during the construction of a project, shall be reported immediately to NMFS's Protected Resources Division (PRD) at (727-824-5312) or by email to takereport.nmfs@noaa.gov and CESAJ-ComplyDocs@usace.army.mil. Sea turtle and marine mammal stranding/rescue organizations' contact information is available by region at <http://www.nmfs.noaa.gov/pr/health/networks.htm>. Smalltooth sawfish encounters shall be reported to <http://www.flmnh.ufl.edu/fish/sharks/sawfish/sawfishencounters.html>.

*Failure to report take of a federally listed threatened or endangered species may lead to suspension, revocation, or modification of this authorization. (From Section 3(18) of the Federal Endangered Species Act: The term 'take' means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.)

11. Sea Turtle and Smalltooth Sawfish Conditions: The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions" dated March 23, 2006, (Attachment B).

12. Manatee Conditions: The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011" (Attachment C).

This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. Prior to the initiation of any construction, projects qualifying for this Nationwide permit must qualify for an exemption under section 403.813(1), Florida Statutes or 373.406, Florida Statutes, or otherwise be authorized by the applicable permit required under Part IV of Chapter 373, Florida Statutes, by the Department of Environmental Protection, a water management district under section 373.069, Florida Statutes, or a local government with delegated authority under section 373.441, Florida Statutes, and receive Water Quality Certification and applicable Coastal Zone Consistency Concurrence or waiver thereto, as well as any

authorizations required for the use of state-owned submerged lands under Chapter 253, Florida Statutes, and, as applicable, Chapter 258, Florida Statutes. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter of authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (<http://www.myfwc.com/license/wildlife/>) for more information, including a list of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (<http://www.fnai.org/>) also maintains updated lists, by county, of documented occurrences of those species.

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 850-763-0717, extension 27.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,

Lisa S. Loworn
Biologist, Panama City Permits Section

Enclosures

Copies Furnished:
Mr. Matthew Trammell, Taylor Engineering, Inc.
CESAJ-RD-E

GENERAL CONDITIONS
33 CFR PART 320-330

1. The time limit for completing the work authorized ends on **March 18, 2022**.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2016-02556(NW-LSL)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019 or electronic mail at saj-rd-enforcement@usace.army.mil.

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

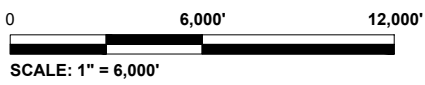
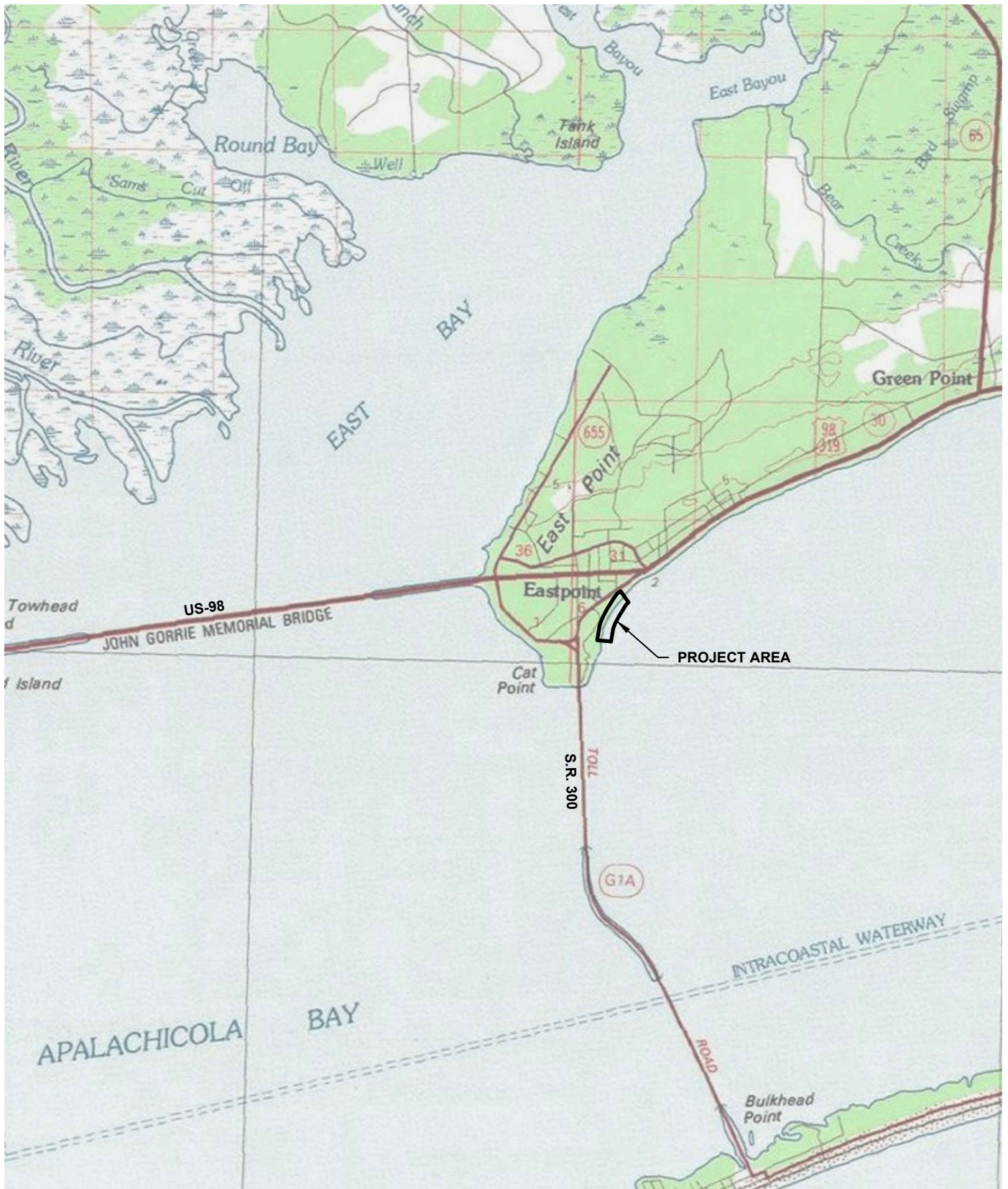
(NAME-PRINTED)

(STREET ADDRESS)

(MAILING ADDRESS)

(CITY, STATE, ZIP CODE)

CATHY SHELL X:\SIS\PROJECTS\C2016-039\CAT POINT\PERMIT\C2016-039\F-LOCATION MAP.DWG 9/25/2017 4:40:44 PM



REFERENCE:
ESRI USGS TOPO MAP



TAYLOR ENGINEERING INC.
1221 AIRPORT ROAD
SUITE 210
DESTIN, FL 32541
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 1
LOCATION MAP
CAT POINT LIVING SHORELINE
FRANKLIN COUNTY, FL

SEAL	DATE

PROJECT	DRAWN BY	SHEET	DATE
C2016-039	CAS	1 of 10	9-25-17

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

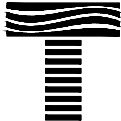
GENERAL NOTES:

1. DRAWING REFERENCES THE FLORIDA STATE PLANE NORTH, NORTH AMERICAN DATUM OF 1983 (NAD83)
2. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
3. AERIAL IMAGERY OBTAINED FROM GOOGLE EARTH (2015). AERIAL IMAGERY DISPLAYED HEREON FOR INFORMATIONAL PURPOSES ONLY. NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THESE MAPS.
4. EXISTING STRUCTURES, PARCEL BOUNDARIES, TOPOGRAPHIC, BATHYMETRIC, AND MEAN HIGH WATER LINE (MHWL) SURVEY PERFORMED BY GUSTIN, COTHERN, & TUCKER, INC. SEPTEMBER, 2016.
5. NATURAL RESOURCE, WETLAND, AND COMMUNITY CLASSIFICATION SURVEY PERFORMED BY TAYLOR ENGINEERING, INC. JULY 2016.
6. OYSTER REEF BREAKWATER (MARINE MATTRESS) SHALL BE FILLED WITH LIMESTONE, OYSTER SHELL, ROCK OR OTHER SUITABLE OYSTER HABITAT.
7. SHORELINE DEBRIS AND TRASH REMOVAL TO BE DIRECTED BY THE APALACHICOLA NATIONAL ESTUARINE RESEARCH RESERVE (ANERR).
8. RELOCATION OF OYSTER GROWTH ON TIRES AND DISPOSAL OF TIRES TO BE DIRECTED BY ANERR.
9. PROPOSED ANERR MANAGEMENT AREA SHALL CONSIST OF THE PROPOSED OYSTER REEF BREAKWATER WITH LEEWARD MARSH PLANTING OR SHALL CONSIST OF AN OYSTER-BAG BREAKWATER (SIMILAR TO EXISTING) AS A DEMONSTRATION AREA TO PROMOTE THE IMPLEMENTATION OF LIVING SHORELINES TO LOCAL BUSINESSES AND PRIVATE RESIDENTS.
10. OYSTER BAGS ARE TO BE PLACED AND SECURED (VIA METAL CRIMPS, ZIP TIES, OR SIMILAR) TO THE LEEWARD SIDE OF THE OYSTER REEF BREAKWATER AS DIRECTED BY ANERR.
11. CONSTRUCTION SHALL NOT VIOLATE STATE WATER QUALITY STANDARDS.
12. MATERIALS AND FINAL STRUCTURAL DIMENSIONS ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
13. THE LOCATION OF TURBIDITY CURTAINS SHOWN ON THESE DRAWINGS FOR INFORMATIONAL PURPOSES ONLY. TURBIDITY CURTAINS SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION.
14. CONSTRUCTION SHALL BE PERFORMED FROM LAND-BASED EQUIPMENT AND SHALL NOT RESULT IN ANY NET IMPACTS TO EXISTING RESOURCES. ANY IMPACTS TO SHORELINE RESOURCES WILL BE RESTORED TO THE PRE-CONSTRUCTION CONDITIONS PER ANERR'S DIRECTION.
15. MARINE MATTRESS SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE GEO-GRID, GALVANIZED STEEL, OR SIMILAR. DIMENSIONS, MATERIALS, AND MEAN DIAMETER OF ROCK FILL WILL BE DETERMINED DURING FINAL DESIGN.

ENVIRONMENTAL RESTORATION

1. OYSTER REEF HABITAT (BREAKWATER): 0.53 ACRES (1,180 CY)
2. SALTMARSH PLANTING / RESTORATION AREA: 1.92 ACRES
3. EXOTIC / NUISANCE SPECIES REMOVAL (PHRAGMITES AUSTRALIS): 0.046 ACRES. THIS AREA WILL BE RE-PLANTED WITH NATIVE VEGETATION AS DIRECTED BY ANERR.
4. RELOCATION OF TIRES WITH OYSTER GROWTH (AS DIRECTED BY ANERR): 9 EA.
5. NATIVE VEGETATION INSTALLED IN ACCORDANCE WITH THE PROPOSED PLANTING PLAN OUTLINED IN THE PERMIT APPLICATION.
6. NO NET ENVIRONMENTAL IMPACTS ARE PROPOSED.

CATHY SHELL.X:\SIS\PROJECTS\C2016-039-CAT POINT\PERMIT\C2016-039-P-NOTES.DWG 9/25/2017 4:40:47 PM

 <p>TAYLOR ENGINEERING INC. 1221 AIRPORT ROAD SUITE 210 DESTIN, FL 32541 CERTIFICATE OF AUTHORIZATION # 4815</p>	<p>FIGURE 2 PROJECT NOTES CAT POINT LIVING SHORELINE FRANKLIN COUNTY, FL</p>	<p>SEAL</p>			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">PROJECT C2016-039</td> <td style="width: 25%;">DRAWN BY CAS</td> <td style="width: 25%;">SHEET 2 of 10</td> <td style="width: 25%;">DATE 9-25-17</td> </tr> </table>	PROJECT C2016-039	DRAWN BY CAS	SHEET 2 of 10	DATE 9-25-17
PROJECT C2016-039	DRAWN BY CAS	SHEET 2 of 10	DATE 9-25-17		



AERIAL REFERENCE:
GOOGLE EARTH IMAGERY, 2015

NORTH
FIG 6

PROPOSED CONTRACTOR ACCESS
(EXISTING FIRE BREAK)

TIRES WITH OYSTER GROWTH TO
BE REMOVED / RELOCATED (9 EA.)

PATTON ROAD

EXISTING HIGH
SALTMARSH

SALTMARSH
PLANTING /
RESTORATION
AREA (TYP)

EXISTING
FOSSILIZED
OYSTER SHELL

EXISTING
WETLAND LINE
(TYP)

EXISTING LOW
SALTMARSH

EXISTING ROCK
BREAKWATER

SOUTH
FIG 7

PROPOSED
CONTRACTOR
STAGING AREA

WARNING
SIGN (TYP)

ANERR
FACILITY

EXISTING OYSTER
BAG BREAKWATER

PROPOSED ANERR
MANAGEMENT AREA

EXISTING LOOSE
OYSTER SHELL

PATTON ROAD

EXISTING
ANERR
BOARDWALK

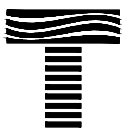
EXOTIC / NUISANCE
SPECIES TO BE REMOVED

SEGMENTED
OYSTER REEF
BREAKWATER (TYP)

MHW 0.65 FT-NAVD

Apalachicola Bay

CATHY SHELL X:\SIS\PROJECTS\C2016-039 CAT POINT\PERMIT\C2016-039 P-PROPOSED OVERVIEW KEY.DWG 9/25/2017 4:40:52 PM



TAYLOR ENGINEERING INC.

1221 AIRPORT ROAD
SUITE 210
DESTIN, FL 32541

CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 3
PROJECT OVERVIEW
CAT POINT LIVING SHORELINE
FRANKLIN COUNTY, FL

SEAL





PROJECT	DRAWN BY	SHEET	DATE
C2016-039	CAS	3 of 10	9-25-17

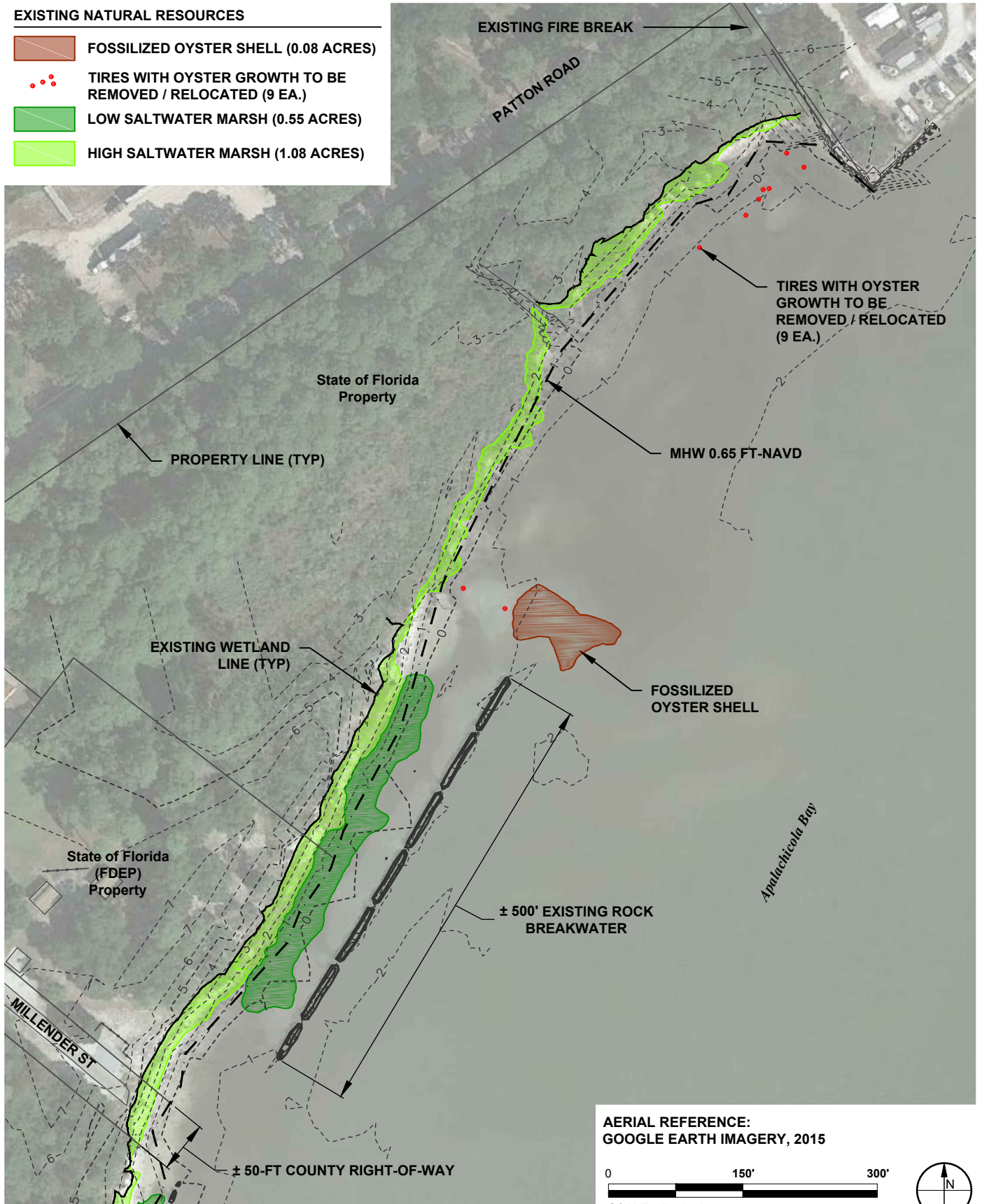
MATTHEW TRAMMELL P.E.# 69244

DATE

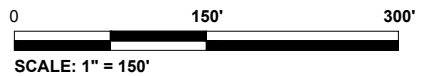
PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

EXISTING NATURAL RESOURCES

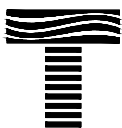
-  FOSSILIZED OYSTER SHELL (0.08 ACRES)
-  TIRES WITH OYSTER GROWTH TO BE REMOVED / RELOCATED (9 EA.)
-  LOW SALTWATER MARSH (0.55 ACRES)
-  HIGH SALTWATER MARSH (1.08 ACRES)



**AERIAL REFERENCE:
GOOGLE EARTH IMAGERY, 2015**



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TAYLOR ENGINEERING INC.

1221 AIRPORT ROAD
SUITE 210
DESTIN, FL 32541

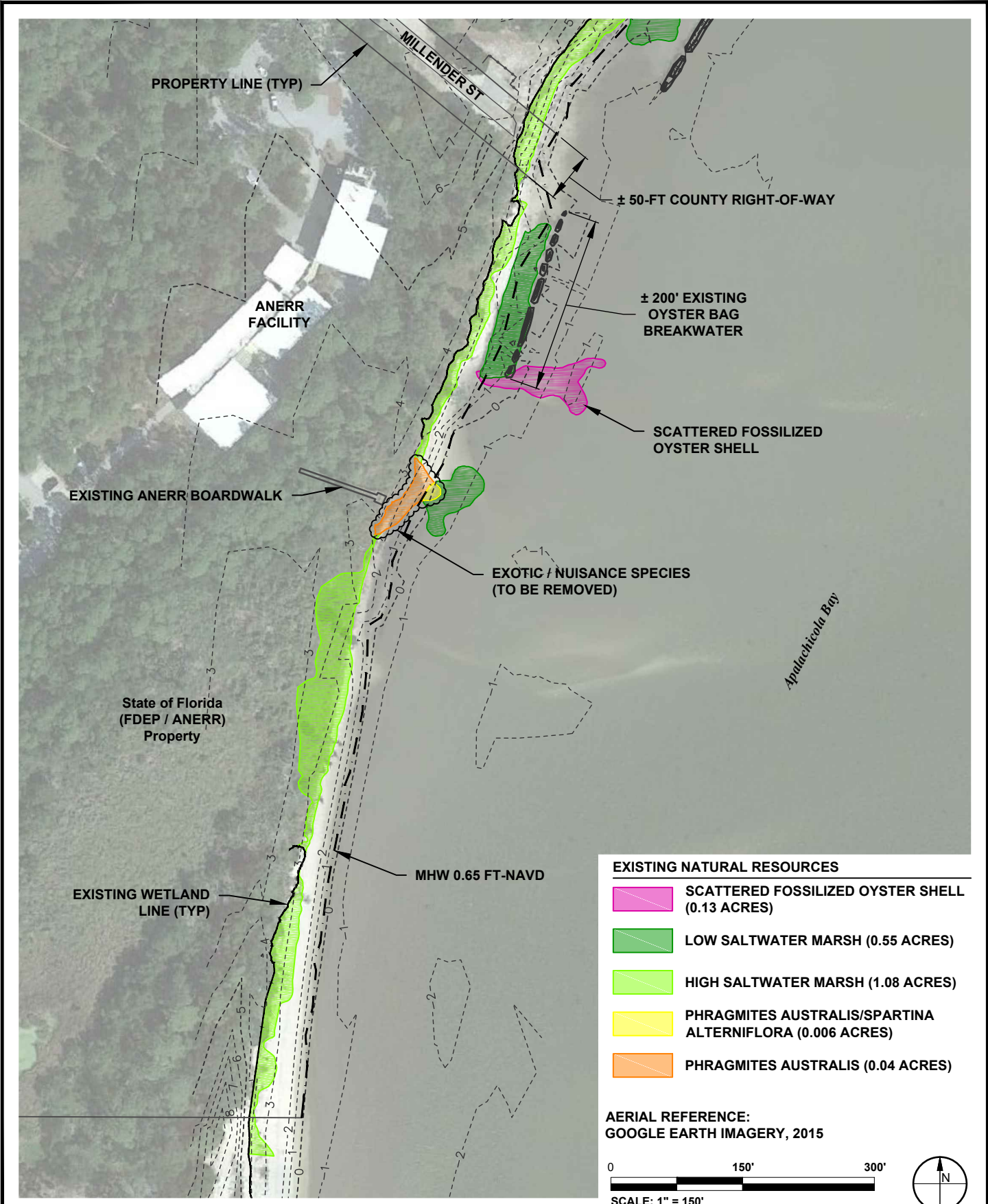
CERTIFICATE OF AUTHORIZATION # 4815

**FIGURE 4
EXISTING CONDITIONS PLAN - NORTH
CAT POINT LIVING SHORELINE
FRANKLIN COUNTY, FL**






PROJECT	DRAWN BY	SHEET	DATE
C2016-039	CAS	4 of 10	9-25-17

SEAL	DATE
MATTHEW TRAMMELL P.E.# 69244	

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


EXISTING NATURAL RESOURCES

-  SCATTERED FOSSILIZED OYSTER SHELL (0.13 ACRES)
-  LOW SALTWATER MARSH (0.55 ACRES)
-  HIGH SALTWATER MARSH (1.08 ACRES)
-  PHRAGMITES AUSTRALIS/SPARTINA ALTERNIFLORA (0.006 ACRES)
-  PHRAGMITES AUSTRALIS (0.04 ACRES)

AERIAL REFERENCE:
GOOGLE EARTH IMAGERY, 2015

0 150' 300'
SCALE: 1" = 150'




TAYLOR ENGINEERING INC.
1221 AIRPORT ROAD
SUITE 210
DESTIN, FL 32541
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 5
EXISTING CONDITIONS PLAN - SOUTH
CAT POINT LIVING SHORELINE
FRANKLIN COUNTY, FL

PROJECT	DRAWN BY	SHEET	DATE
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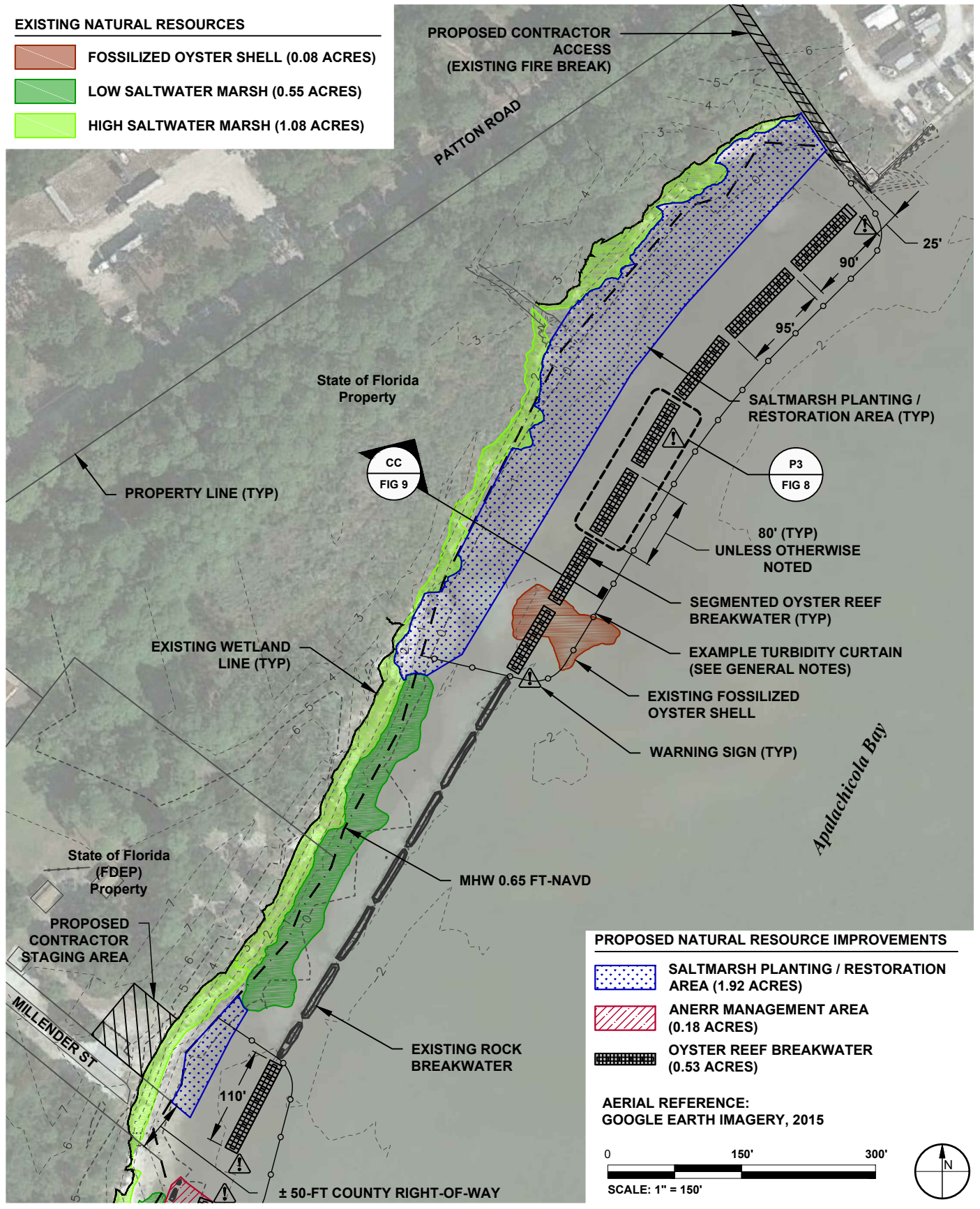
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MATTHEW TRAMMELL P.E.# 69244

DATE

EXISTING NATURAL RESOURCES

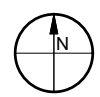
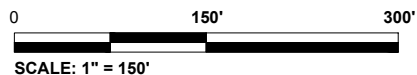
- FOSSILIZED OYSTER SHELL (0.08 ACRES)
- LOW SALTWATER MARSH (0.55 ACRES)
- HIGH SALTWATER MARSH (1.08 ACRES)



PROPOSED NATURAL RESOURCE IMPROVEMENTS

- SALTMARSH PLANTING / RESTORATION AREA (1.92 ACRES)
- ANERR MANAGEMENT AREA (0.18 ACRES)
- OYSTER REEF BREAKWATER (0.53 ACRES)

AERIAL REFERENCE:
GOOGLE EARTH IMAGERY, 2015



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TAYLOR ENGINEERING INC.
 1221 AIRPORT ROAD
 SUITE 210
 DESTIN, FL 32541
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 6
 PROPOSED RESTORATION PLAN - NORTH
 CAT POINT LIVING SHORELINE
 FRANKLIN COUNTY, FL




PROJECT	DRAWN BY	SHEET	DATE
C2016-039	CAS	6 of 10	9-25-17

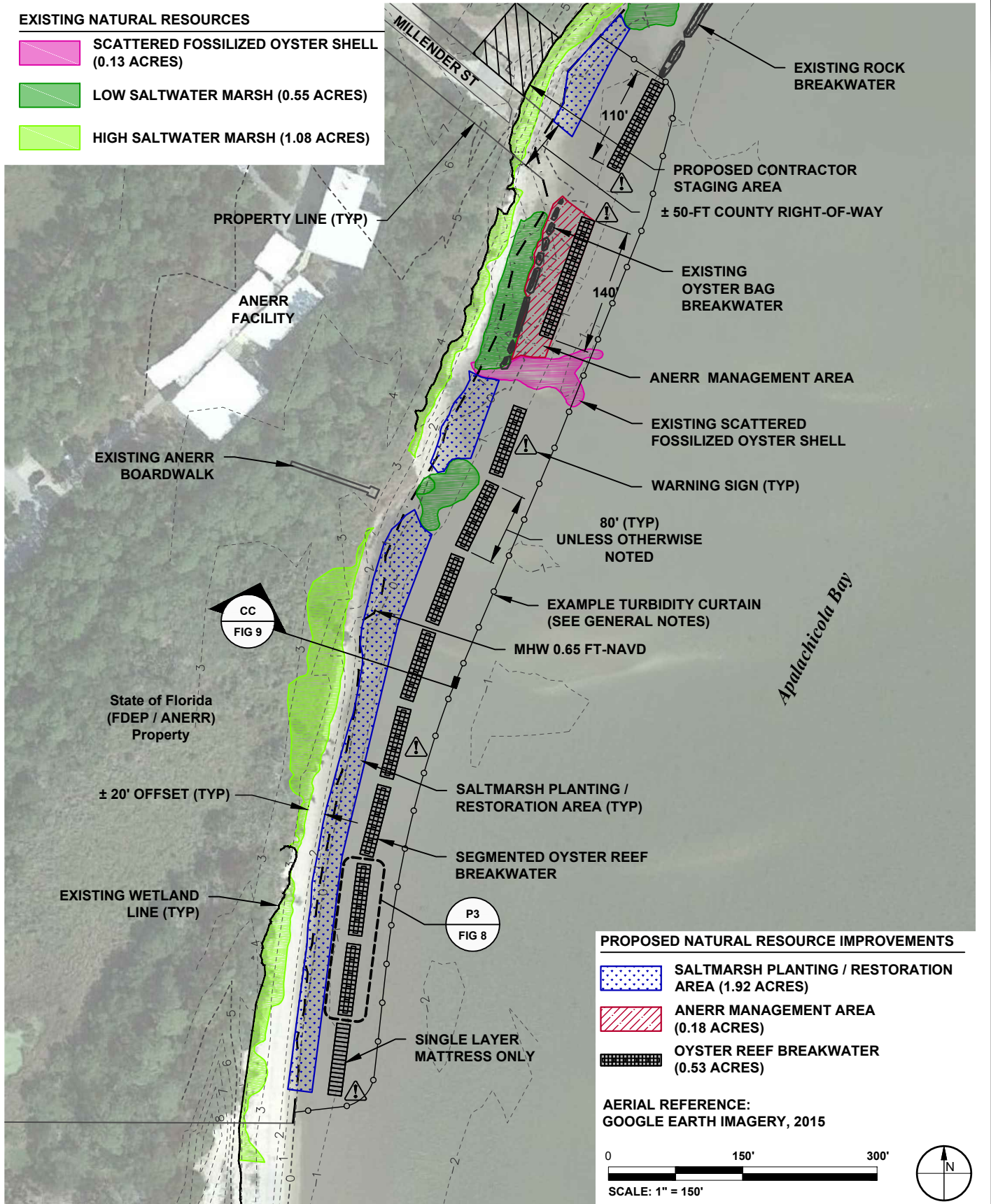
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 MATTHEW TRAMMELL P.E.# 69244




DATE

EXISTING NATURAL RESOURCES

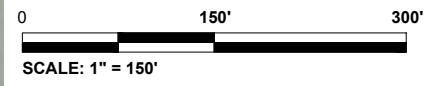
-  SCATTERED FOSSILIZED OYSTER SHELL (0.13 ACRES)
-  LOW SALTWATER MARSH (0.55 ACRES)
-  HIGH SALTWATER MARSH (1.08 ACRES)



PROPOSED NATURAL RESOURCE IMPROVEMENTS

-  SALTMARSH PLANTING / RESTORATION AREA (1.92 ACRES)
-  ANERR MANAGEMENT AREA (0.18 ACRES)
-  OYSTER REEF BREAKWATER (0.53 ACRES)

AERIAL REFERENCE:
GOOGLE EARTH IMAGERY, 2015



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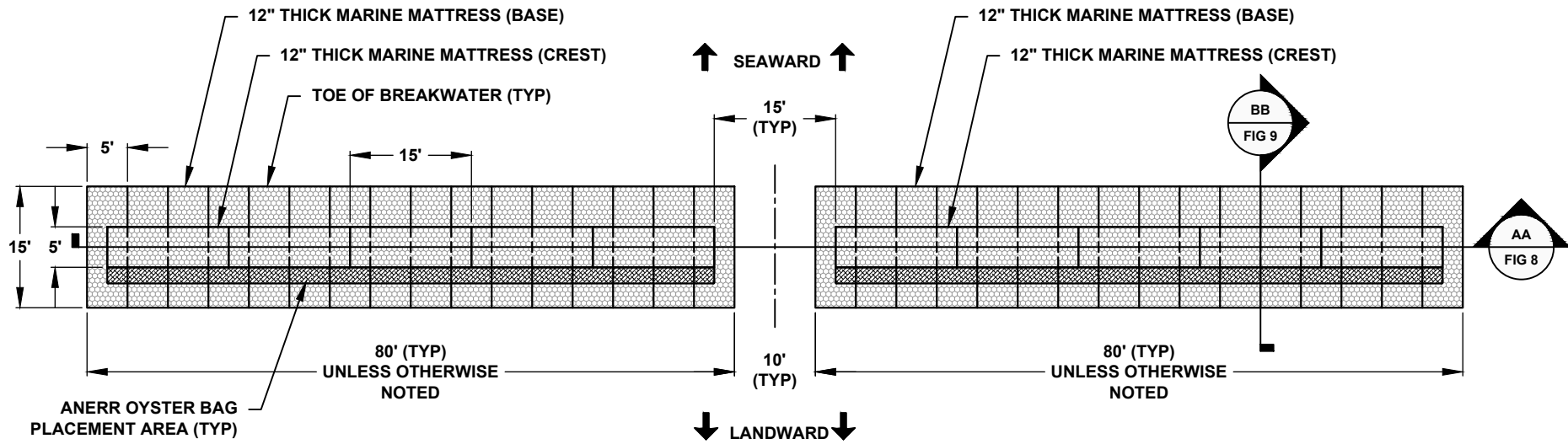
TAYLOR ENGINEERING INC.
 1221 AIRPORT ROAD
 SUITE 210
 DESTIN, FL 32541
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 7
 PROPOSED IMPROVEMENTS PLAN - SOUTH
 CAT POINT LIVING SHORELINE
 FRANKLIN COUNTY, FL

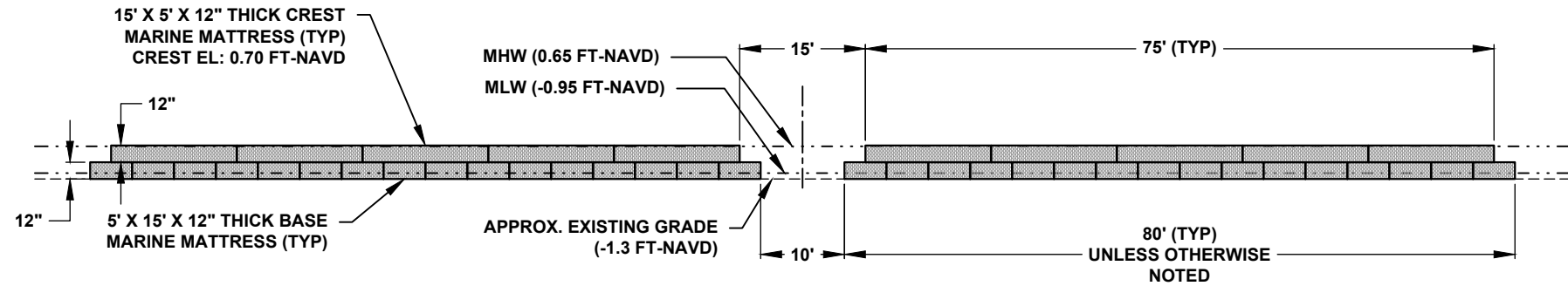
PROJECT	DRAWN BY	SHEET	DATE	SEAL
C2016-039	CAS	7 of 10	9-25-17	MATTHEW TRAMMELL P.E.# 69244

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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P3
FIG 6 **OYSTER REEF BREAKWATER - PLAN VIEW**
 SCALE: 1" = 20' 0 20'



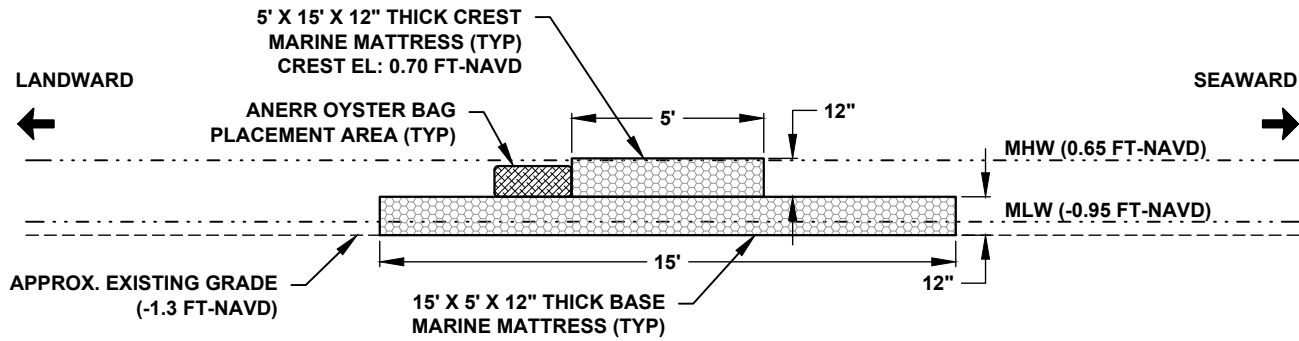
AA
FIG 8 **OYSTER REEF BREAKWATER - SECTION VIEW**
 SCALE: 1" = 20'
 V-SCALE: 1" = 10' 0 20'

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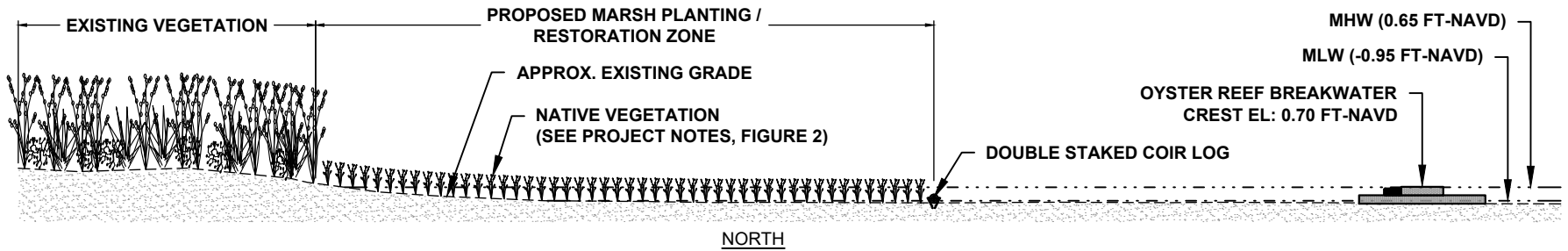
FIGURE 8
 OYSTER REEF BREAKWATER PLAN AND SECTION
 CAT POINT LIVING SHORELINE
 FRANKLIN COUNTY, FL

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DRAWN BY	CAS	
SHEET	8 of 10	
DATE	9-25-17	MATTHEW TRAMMELL P.E.# 69244
		DATE

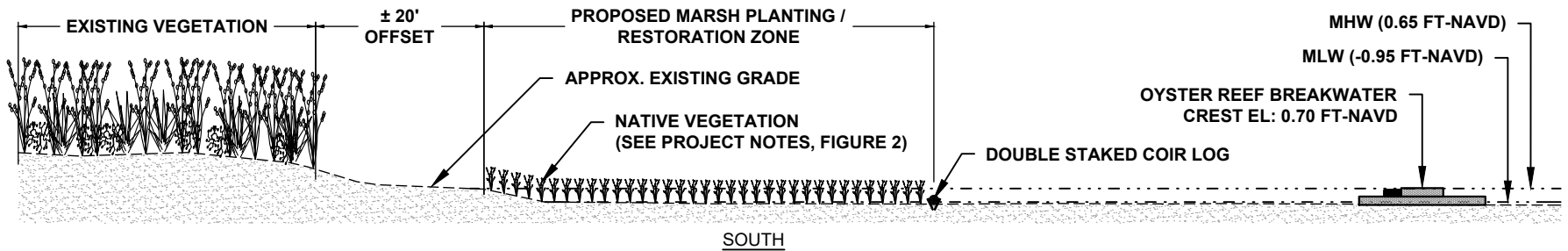
PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



BB
FIG 8 **TYPICAL DETAIL**
OYSTER REEF BREAKWATER - SECTION VIEW
 SCALE: 1" = 5'

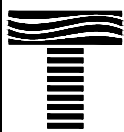


NORTH



SOUTH

CC
FIG 6 **TYPICAL LIVING SHORELINE - SECTION VIEW**
 SCALE: 1" = 20'



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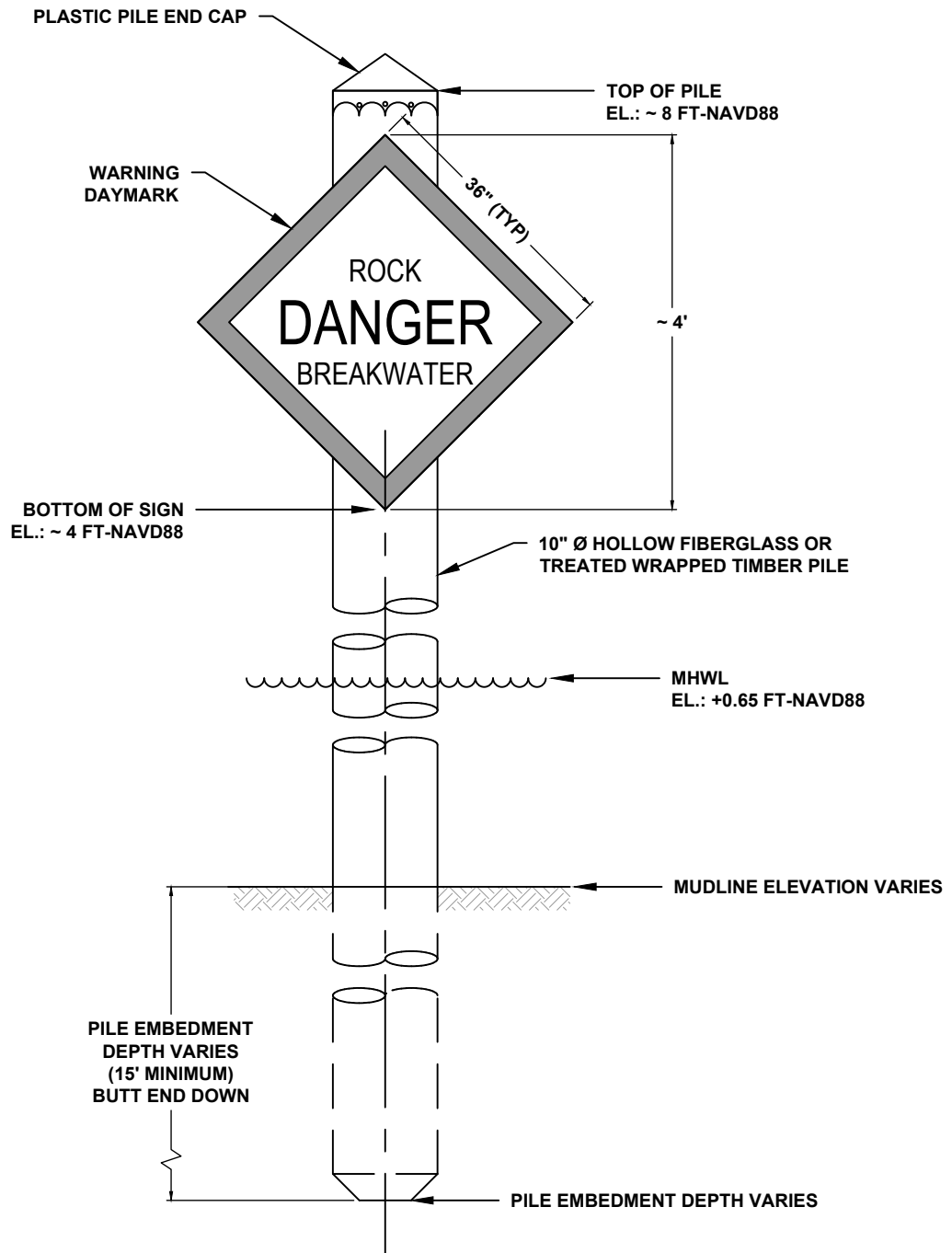
FIGURE 9
 OYSTER REEF BREAKWATER SECTION DETAILS
 CAT POINT LIVING SHORELINE
 FRANKLIN COUNTY, FL

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MATTHEW TRAMMELL P.E.# 69244

DATE

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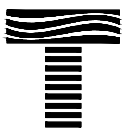


WARNING SIGN DETAIL

SCALE: 1" = 2'

NOTE: FINAL DAYMARK GRAPHIC TO BE DETERMINED IN COORDINATION WITH F.W.C. AND U.S. COAST GUARD GUIDELINES.

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FIGURE 10
BREAKWATER WARNING SIGN DETAIL
CAT POINT LIVING SHORELINE
FRANKLIN COUNTY, FL

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SEAL

MATTHEW TRAMMELL P.E.# 69244

DATE

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Submit this form and one set of as-built engineering drawings to the U.S. Army Corps of Engineers, Enforcement Section, 41 North Jefferson Street, Suite 301, Pensacola, Florida, 32502. If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-3131.

1. Department of the Army Permit Number: SAJ-2016-02556(NW-LSL)

2. Permittee Information:

Name: _____

Address: _____

3. Project Site Identification (physical location/address):

4. As-Built Certification: I hereby certify that the authorized work, including any mitigation required by Special Conditions to the permit, has been accomplished in accordance with the Department of the Army permit with any deviations noted below. This determination is based upon on-site observation, scheduled, and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

Signature of Engineer

Name (*Please type*)

(FL, PR, or VI) Reg. Number

Company Name

City

State

ZIP

(Affix Seal)

Date _____

Telephone Number _____

Date Work Started: _____ Date Work Completed: _____

Identify any deviations from the approved permit drawings and/or special conditions (attach additional pages if necessary):



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

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STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.htm. Questions concerning these signs can be forwarded to the email address listed above.