



DEPARTMENT OF NATURAL RESOURCES
COASTAL RESOURCES DIVISION
ONE CONSERVATION WAY • BRUNSWICK, GA 31520 • 912.264.7218
COASTALGADNR.ORG

MARK WILLIAMS
COMMISSIONER

DOUG HAYMANS
DIRECTOR

OCT 24 2018

Heath Hansell
Applied Technology and Management, Inc.
P.O. Box 20336
Charleston, SC 29413-0336

Re: Letter of Permission (LOP), Maintenance and Rehabilitation of the Existing Revetment, Jekyll Island, Glynn County, Georgia.

Dear Mr. Hansell:

This letter is in response to your request dated September 25, 2018 for authorization to perform maintenance to the existing rock revetment within jurisdiction of the Shore Protection Act (SPA). An LOP was issued on November 30, 2017 and reissued on July 15, 2018 for maintenance and rehabilitation of the existing rock revetment along a stretch of approximately 9,800 linear feet from about Kings Avenue just north of Villas By The Sea. The current request is to extend the existing project area approximately 5,130 linear feet south to Oceanview Beach Park.

Activities within SPA jurisdiction include localized lower elevation/damaged sections of the revetment within the extended project area to be repaired via spot placement of small quantities of additional stone. Repairs will rehabilitate smaller localized spots to a condition similar to the original design template or to match adjacent surrounding elevations of intact revetment. The repair work includes some areas where the revetment acts as scour protection to a concrete bulkhead along the southern-most approximate 1,900 linear feet of the extended project area. Approximately 1,200 cubic yards of armor stone will be placed at various locations for repairs.

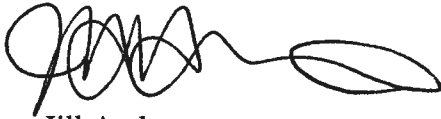
The revetment repair work along the southern end of the existing approved project area and along the requested extended project extension will be conducted from the seaward side of the revetment. Existing dune habitat, including dense dune vegetation, prohibits repair work from the landward side of the revetment without significant damage to upland dunes and vegetation. The requested modification allows for temporary construction equipment access and a work corridor along the seaward side of the revetment at lower tidal stages. A single roll-off dump truck and single excavator will be used for spot repairs and will occupy a 30ft. wide work corridor extending seaward from the toe of the revetment. Access to the project area will be created by leveling out a small section of revetment to allow the equipment to access the lower beach. This area will be repaired with armor stone to match adjacent areas upon project completion.

The Department authorizes the maintenance activities within SPA jurisdiction as depicted above and in the attached project description and drawings. No unauthorized equipment, materials, or debris may be placed, disposed of, or stored in jurisdictional areas. Any incidental damage to dunes or dune vegetation will require restoration to be coordinated through this office. Work will begin

no sooner than 15 days of the date of this letter and be completed not later than March 1, 2019. This LOP is valid for the above referenced project. Any change in the use, location, dimensions, or configuration of the approved project, without prior notification from this office, could result in the revocation of this permission and in the required removal of the related structures.

This LOP does not relieve you from obtaining any other required federal, state, or local permits. If you have any further questions or concerns in regards to this or any other project, please feel free to contact Josh Noble at (912) 262-3193.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jill Andrews', with a long, sweeping horizontal stroke extending to the right.

Jill Andrews

Chief

Coastal Management Section

Enclosures: Description and Drawings

cc: Skye Stockel, US Army Corps of Engineers
LOP20180097



September 25, 2018

Skye Stockel,
Regulatory Specialist,
Savannah District US Army Corps of Engineers
100 W. Oglethorpe Avenue
Savannah, Georgia 31401

Karl Burgess
Program Manager, Marsh and Shore Mgmt.
Georgia Dept. of Natural Resources, Coastal
Resources Division
One Conservation Way
Brunswick, GA 31527

**RE: NWP/LOP Modification Request (SAS-2017-0091) Revetment Maintenance
Jekyll Island State Park Authority (JIA)
Jekyll Island, Glynn County, GA**

To Whom It May Concern:

On behalf of Jekyll Island Authority (JIA), we are requesting a modification to the above referenced NWP and LOP approval for the ongoing oceanfront rock revetment maintenance efforts. In general, the modification seeks approval for:

- Extension of the project limits for minor spot maintenance repairs along additional sections of the existing revetment (south of the previously authorized area).
- Access to and a project work corridor on the seaward side of the revetment for repair work.

These modifications are necessary to rehabilitate the entirety of the existing/exposed revetment in the most efficient manner, and to minimize impacts to existing upland vegetation communities in the south portion of the project (south of Baseline Sta 20+00). The existing approved project was for emergency maintenance and repairs to areas of the revetment with the most significant damage and critically threatened structures and historic resources requiring immediate storm protection. The requested modification extends the maintenance efforts south to areas of the existing revetment requiring less significant repairs but still in need of more resilient storm protection/repairs. The attached Drawings provide additional details of the requested modifications.

Extension of project limits for spot repairs - The requested modification would extend the existing southern project limit approximately 5,130 ft southward to the Oceanview Beach Park area. The majority of the revetment along this reach is in good condition with rock crest elevations of +9 ft NAVD88 or higher. The proposed work would allow for localized lower elevation/damaged sections of the revetment within the extension area to be maintained/repared via spot placement of small quantities of additional stone. Repairs would rehabilitate smaller localized spots to a condition similar to the original design template and/or to match adjacent surrounding elevations of intact revetment. The repair work includes some areas where the revetment acts as scour protection to an old concrete bulkhead along the southern-most approximately 1,900 ft of the project length. It is anticipated that the spot repairs will require approximately 1,200 cubic yards of armor stone placement (of similar size or slightly larger than existing stone) to be placed at various locations for small-scale repairs. All stone in the requested extension area



is proposed to be placed above the HAT line. The amount of stone for the requested minor repairs equates to ~5% of the total existing approved project quantity.

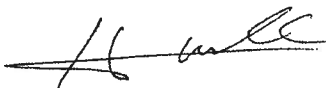
Access and work corridor on the seaward side of the revetment - In order to perform the revetment repair work along the extreme southern end of the existing approved project area and along the requested project extension (i.e., south of Baseline Sta 20+00 south to Oceanview Beach Park), construction work from the seaward side of the revetment is the preferred alternative. Existing dune habitat, including dense dune vegetation, prohibits repair work from the landward side of the revetment without extensive damage to the upland dune/vegetation. The requested modification would allow for temporary construction equipment access and a work corridor along the seaward side of the revetment at times of mid to lower tides. It is anticipated that a single off-road dump truck and single excavator (same equipment currently in use for revetment repairs) will be used for spot repairs and would require an approximately 50 ft work corridor extending seaward from the toe of the revetment. Work would only occur during mid to lower tide levels when the waterline is safely outside the corridor. No materials or equipment would be stored seaward of the revetment. Access would be created by leveling out a small section of revetment to allow the equipment to access the lower beach from the upper beach. This area would be repaired with armor stone to match adjacent areas when the work is complete.

The work for the requested modification is estimated to begin on October 15, 2018. To complete the currently approved project (from STA 20+00 to STA00+00) from the seaward side construction corridor is expected to take approximately 3 weeks. Spot maintenance repairs along the southern extension are anticipated to take approximately 2 to 4 weeks. These schedule estimates account for only working along these sections during mid to lower tides.

The requested modifications are anticipated to have no impact on sea turtle activities. Representatives from the Georgia Sea Turtle Center (located on Jekyll Island) indicate that the last possible day when there could be any viable eggs/hatchlings on the beach anywhere on the island is October 13. The latest documented sea turtle emergence and successful nest on the island occurred on August 4. As of this writing, there are only two remaining nests with a potential for viable eggs/hatchlings on the beach. Neither of these nests is within or near the project area. The closest is over 2,000 feet north of the northern terminus of the revetment (over ~10,000 ft away from the project/work area requested in the modification). The other remaining nest is located on the far south end of the island - over ~3 miles south of Oceanview Beach Park, which is the southernmost work area requested in the modification. The requested modifications are anticipated to have no impact on the beach ecosystem as the only proposed activities will be the limited and temporary, including movement of construction equipment and placement of rocks on top of the existing revetment for repairs.

Please do not hesitate to call (843) 414-1040 or email me at hhansell@appliedtm.com if you have any questions or need additional information.

Sincerely,
APPLIED TECHNOLOGY & MANAGEMENT, INC.



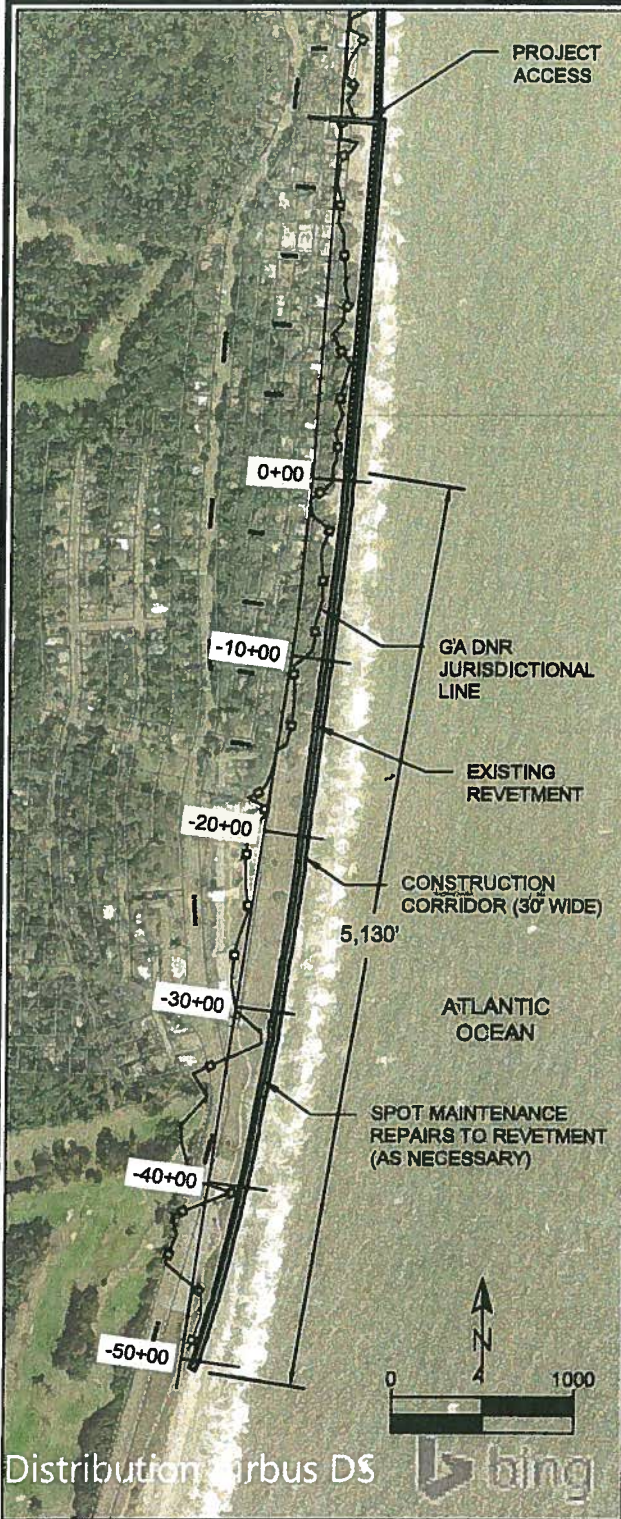
Heath Hansell, PE
Project Engineer

cc:	C. Jones Hooks, JIA Ben Carswell, JIA Josh Noble, GA-DNR Sarah Wise, USACE Jeremy Keels, USACE
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Attachments



NWP 3 MODIFICATION DRAWING EXHIBITS



NOTES:

MODIFICATION TO: SAS-2017-0091

PROJECT PURPOSE IS TO EXTEND EXISTING REVETMENT MAINTENANCE PROJECT APPROXIMATELY 5,130 FEET SOUTH TO ALLOW FOR MINOR SPOT MAINTENANCE REPAIRS TO EXISTING STONE REVETMENT.

WORK WILL BE TIMED TO OCCUR DURING MID TO LOWER TIDES AND NO MATERIALS OR EQUIPMENT WILL BE STAGED SEAWARD OF THE REVETMENT OVERNIGHT.

STONE SPECIFICATIONS:

- SIZE RANGE (DIAMETER) - 1.5 TO 3 FEET
- WEIGHT RANGE - 500 POUNDS TO 2 TONS
- DENSITY - 160 POUNDS PER CUBIC FOOT OR GREATER

NOTES FOR SHEETS 2 - 4:

1. CONTOURS BASED ON SURVEY BY ARC SURVEYING & MAPPING, INC. DATED NOVEMBER 2017.
2. CONTOURS ARE IN FEET REFERENCED TO NAVD88.
3. AERIAL TAKEN BY ARC SURVEYING & MAPPING, INC. IN NOVEMBER 2017.
4. HAT: HIGHEST ASTRONOMICAL TIDE
5. MHW: MEAN HIGH WATER

O:\Projects\17-3113 Jekyll Island Revetment\17-3113-Permit-Mod-Rock-Work_REV01.dwg 1/22/18
 NOTE: THESE DRAWINGS AND DESIGNS ARE STRICTLY CONFIDENTIAL AND PROTECTED BY INTERNATIONAL COPYRIGHT LAW. DETAILS MUST NOT BE DISCLOSED, REPRODUCED OR COMMUNICATED TO A 3rd PARTY IN ANY FORM OR MANNER WITHOUT THE PRIOR WRITTEN APPROVAL OF APPLIED TECHNOLOGY & MANAGEMENT.

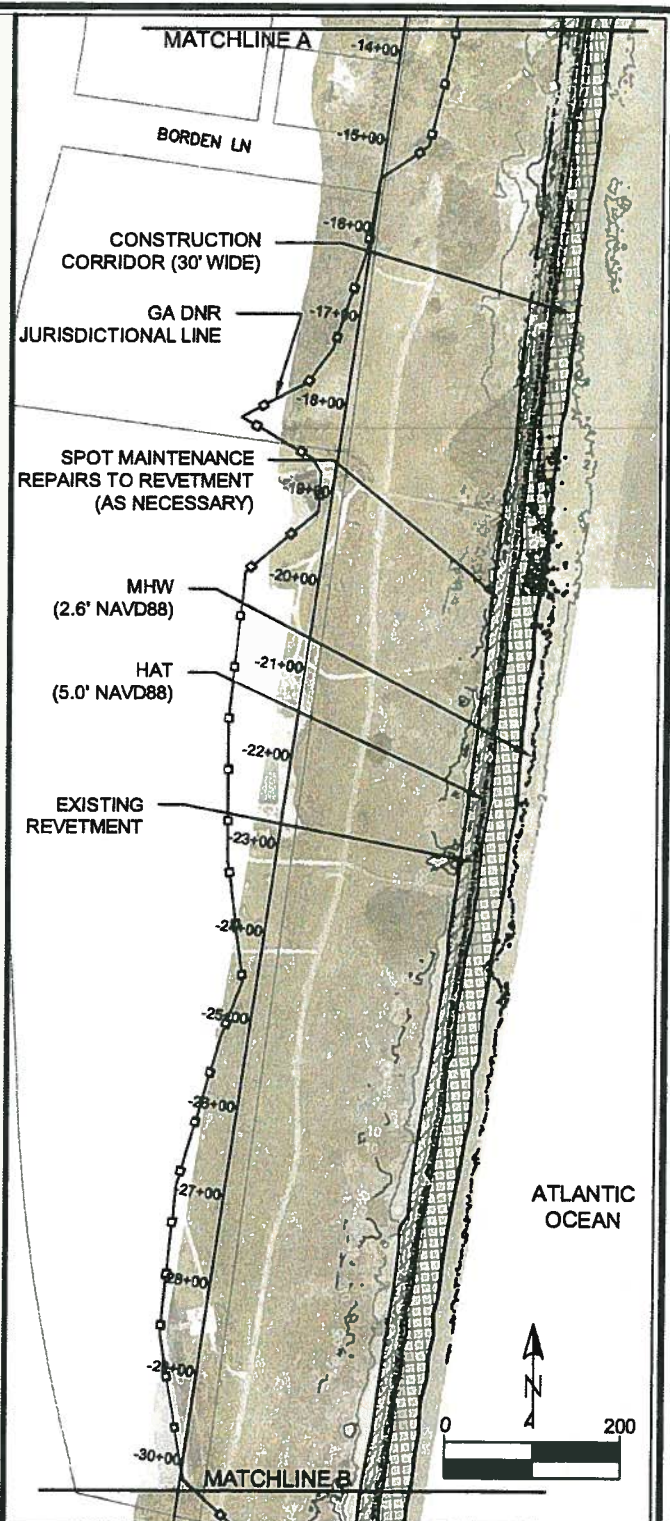
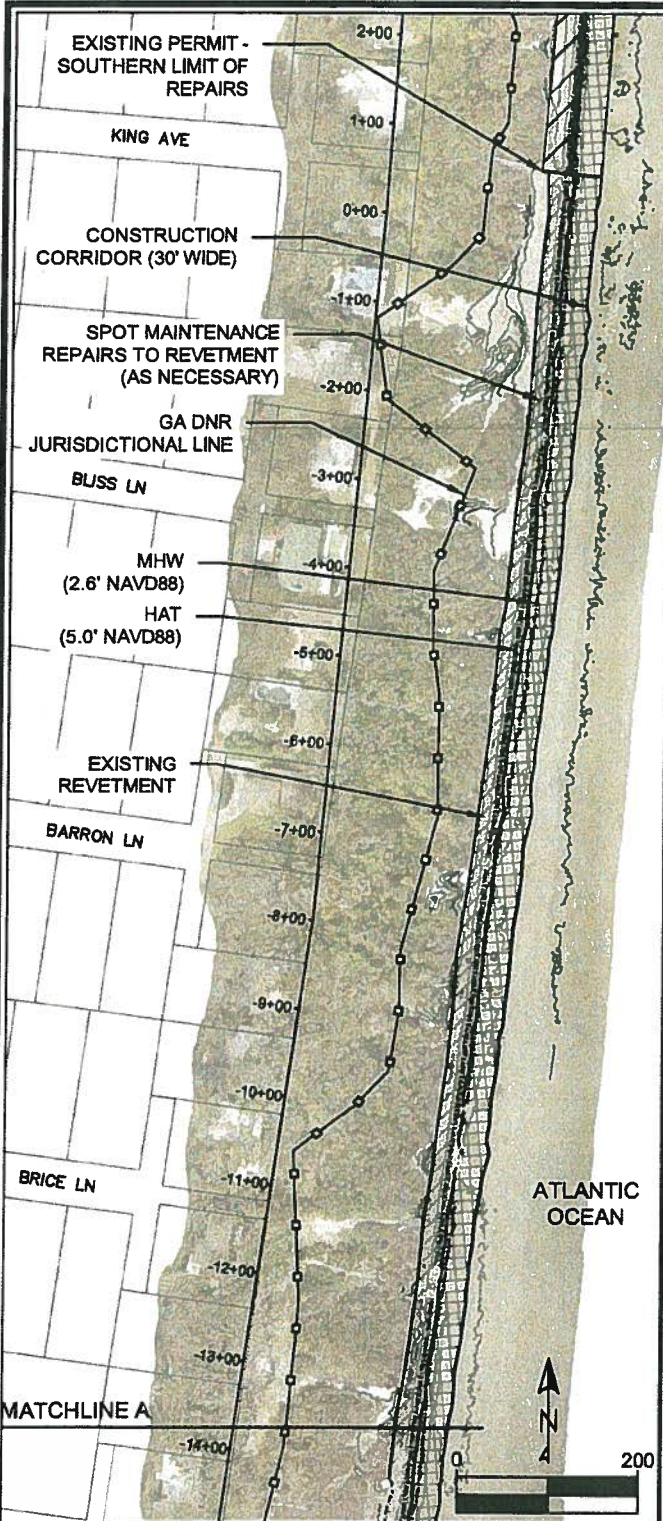
PROJECT:	Jekyll Island Emergency NWP3 Revetment Maintenance Modification
WATERBODY:	Atlantic Ocean
COUNTY:	Glynn
STATE:	Georgia
LATITUDE:	31°05'19.16"N
LONGITUDE:	81°24'07.36"W

NWP3 PERMIT MODIFICATION OVERVIEW	
Requested by: Jekyll Island Authority	
Project Address: Jekyll Island, GA	

ATM DESIGN ENGINEERING CONSULTING
 411 PABLO AVENUE
 JACKSONVILLE BEACH, FL 32250
 904.249.8009
 GA COA #310384
 September 24, 2018
 SHEET 1

NWP 3 MODIFICATION DRAWING EXHIBITS

O:\Project\17-3113 Jekyll Island Revetment\17.0-CAD-Rock-work\lower\17-3113-Permit-Mod-Rock-Work_REV01.dwg 2/9/2018
 NOTE: THESE DRAWINGS AND DESIGNS ARE STRICTLY CONFIDENTIAL AND PROTECTED BY INTERNATIONAL COPYRIGHT LAW. DETAILS MUST NOT BE DISCLOSED, REPRODUCED OR COMMUNICATED TO A 3rd PARTY IN ANY FORM OR MANNER WITHOUT THE PRIOR WRITTEN APPROVAL OF APPLIED TECHNOLOGY & MANAGEMENT.



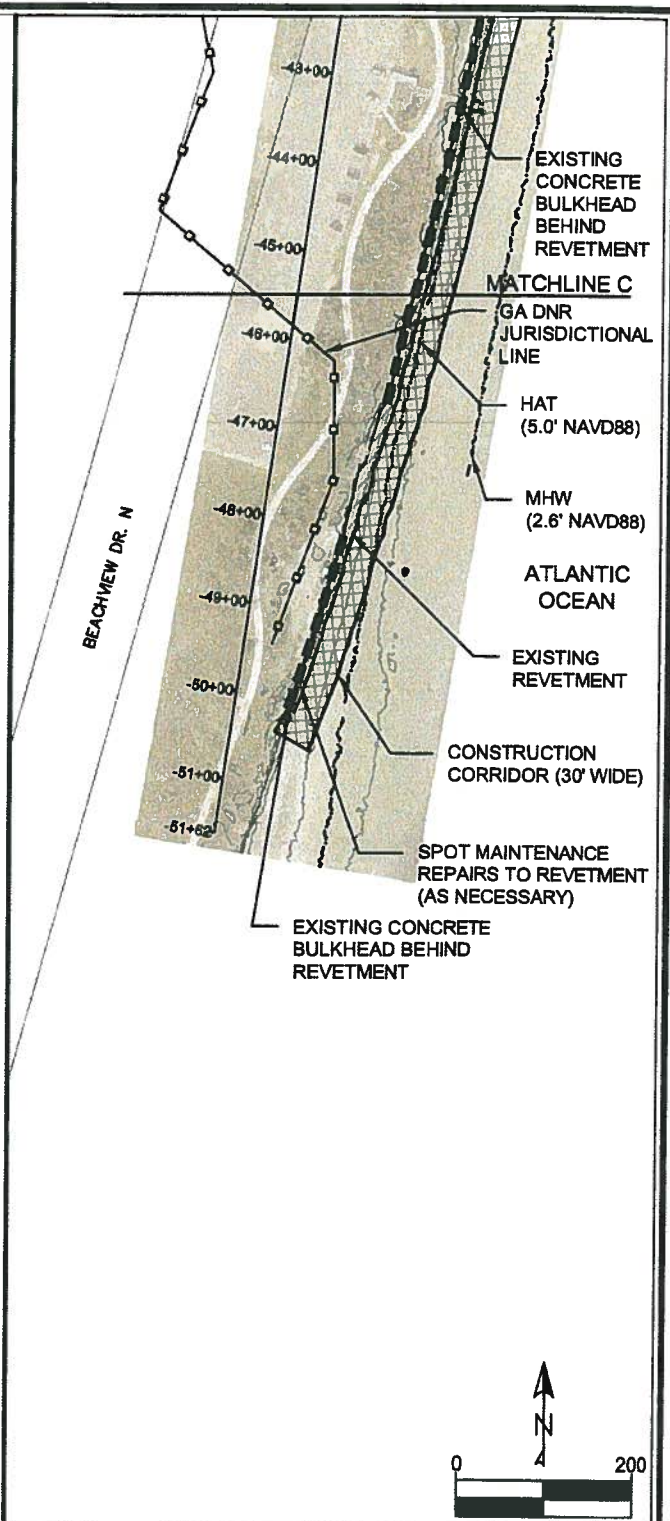
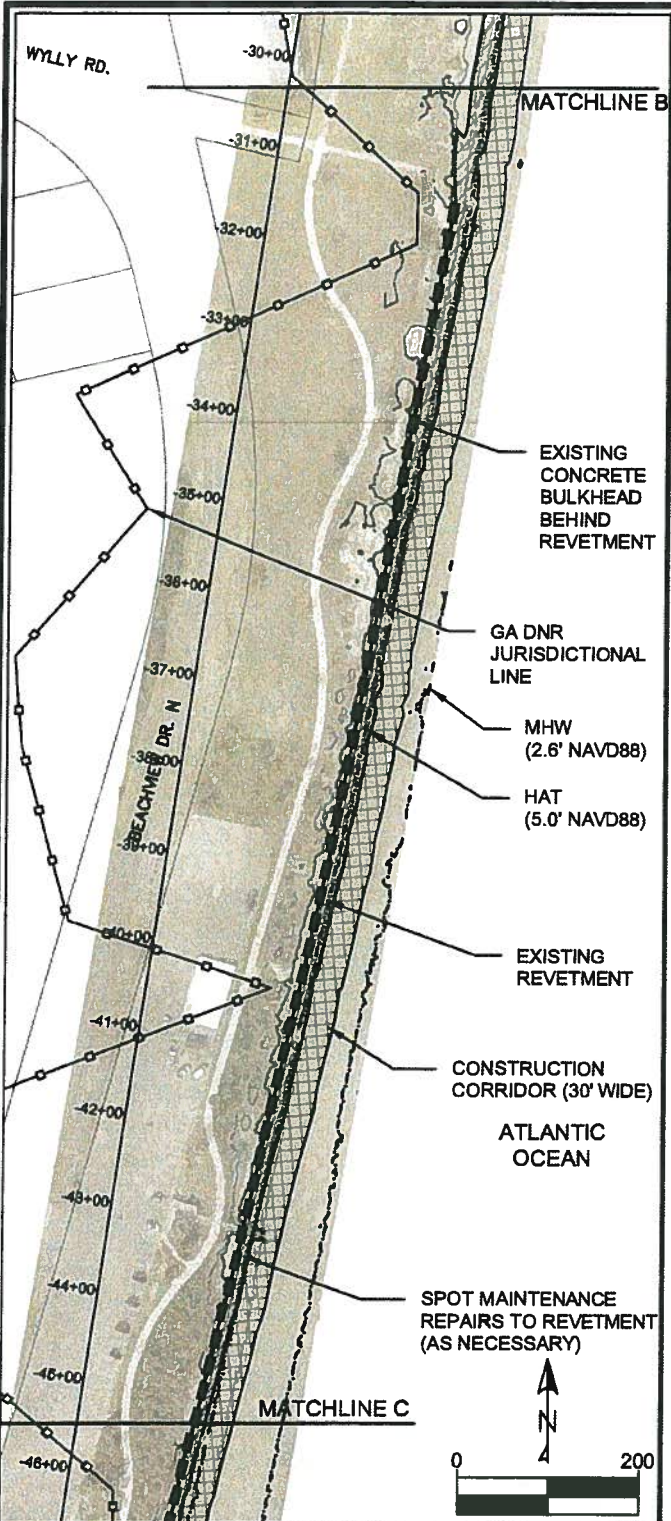
PROJECT: Jekyll Island Emergency NWP3 Revetment Maintenance Modification
WATERBODY: Atlantic Ocean
COUNTY: Glynn
STATE: Georgia
LATITUDE: 31°05'19.16"N
LONGITUDE: 81°24'07.36"W

NWP3 PERMIT MODIFICATION STATIONS 1+00 TO -30+00
 Requested by: Jekyll Island Authority
 Project Address: Jekyll Island, GA

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 GA COA #310384
 September 24, 2018
 SHEET 2

NWP 3 MODIFICATION DRAWING EXHIBITS

O:\Projects\17-3113 Jekyll Island Revetment\17-0-CAD-Rock-work-bw\17-3113-Panels-Mod-Rock-Work_REV01.dwg, 3/9/2018
 NOTE: THESE DRAWINGS AND DESIGNS ARE STRICTLY CONFIDENTIAL AND PROTECTED BY INTERNATIONAL COPYRIGHT LAW. DETAILS MUST NOT BE DISCLOSED, REPRODUCED OR COMMUNICATED TO A 3rd PARTY IN ANY FORM OR MANNER WITHOUT THE PRIOR WRITTEN APPROVAL OF APPLIED TECHNOLOGY & MANAGEMENT.

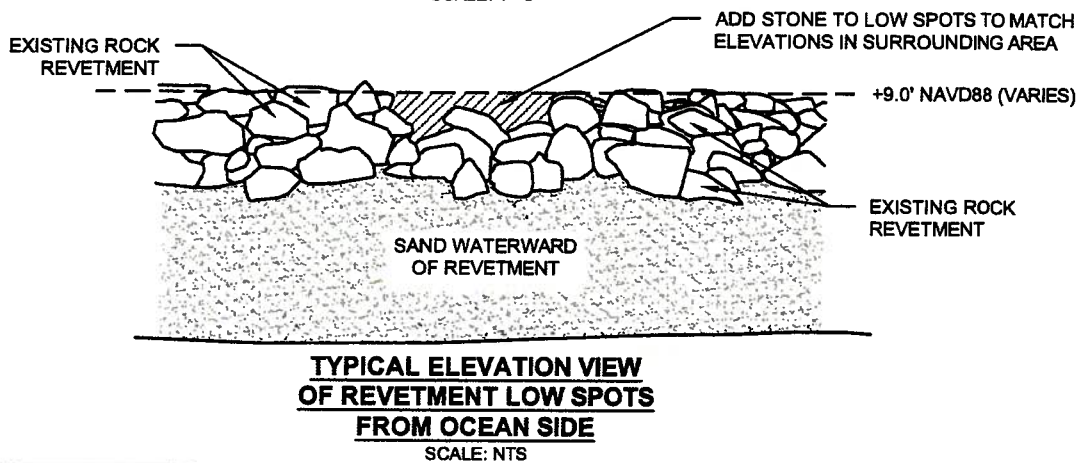
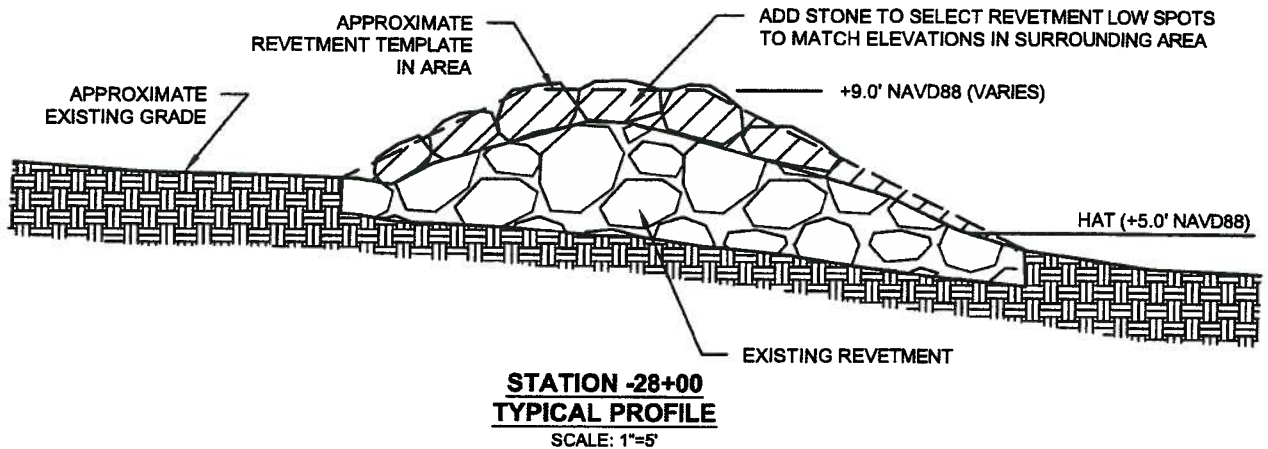
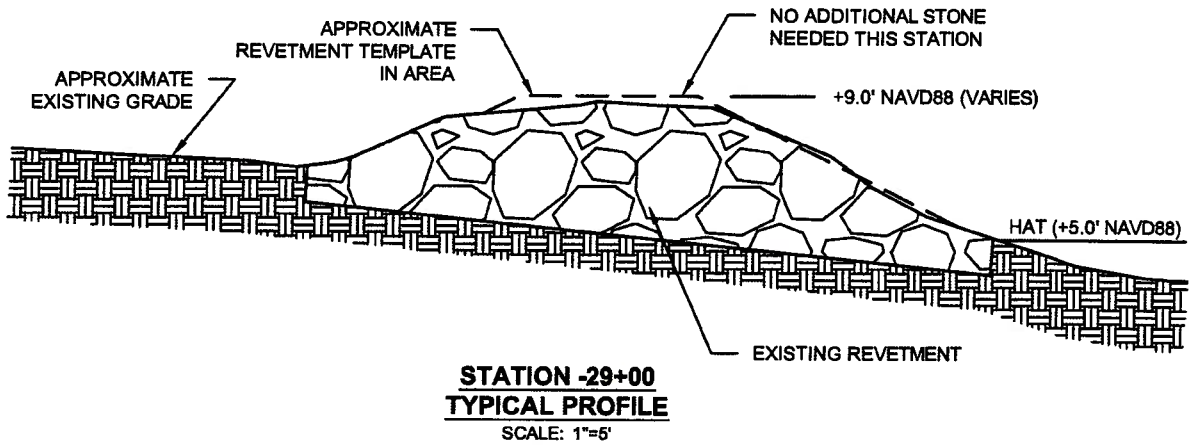


PROJECT: Jekyll Island Emergency NWP3 Revetment Maintenance Modification
WATERBODY: Atlantic Ocean
COUNTY: Glynn
STATE: Georgia
LATITUDE: 31°05'19.16"N
LONGITUDE: 81°24'07.36"W

NWP3 PERMIT MODIFICATION STATIONS -31+00 TO -51+62
 Requested by: Jekyll Island Authority
 Project Address: Jekyll Island, GA

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 September 24, 2018
SHEET 3

NWP 3 MODIFICATION DRAWING EXHIBITS



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 Revetment Maintenance
 Modification
WATERBODY: Atlantic Ocean
COUNTY: Glynn
STATE: Georgia
LATITUDE: 31°05'19.16"N
LONGITUDE: 81°24'07.36"W

NWP3 PERMIT MODIFICATION
 TYPICAL PROFILES

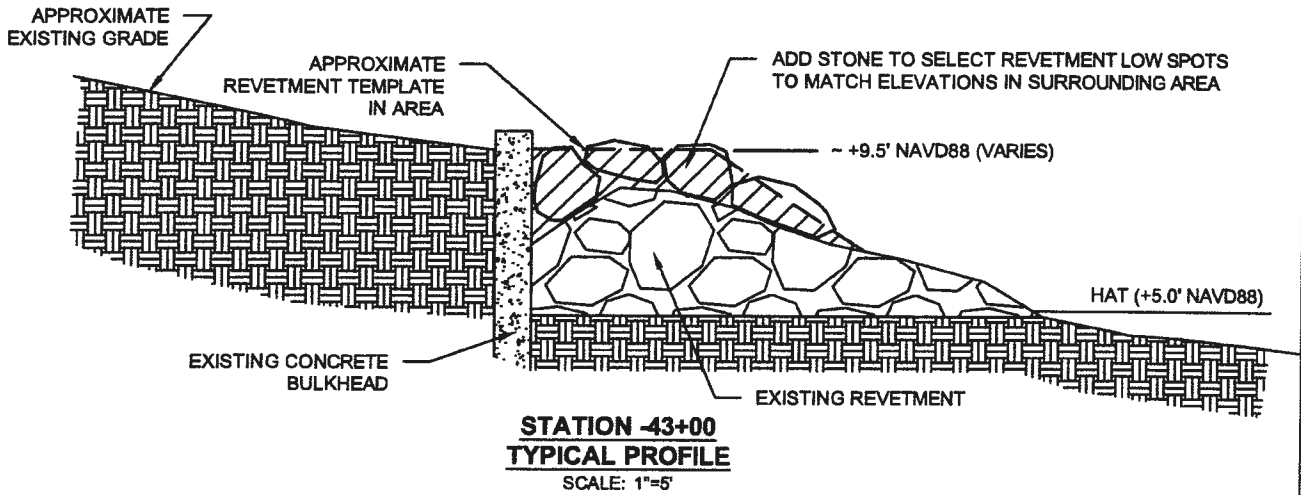
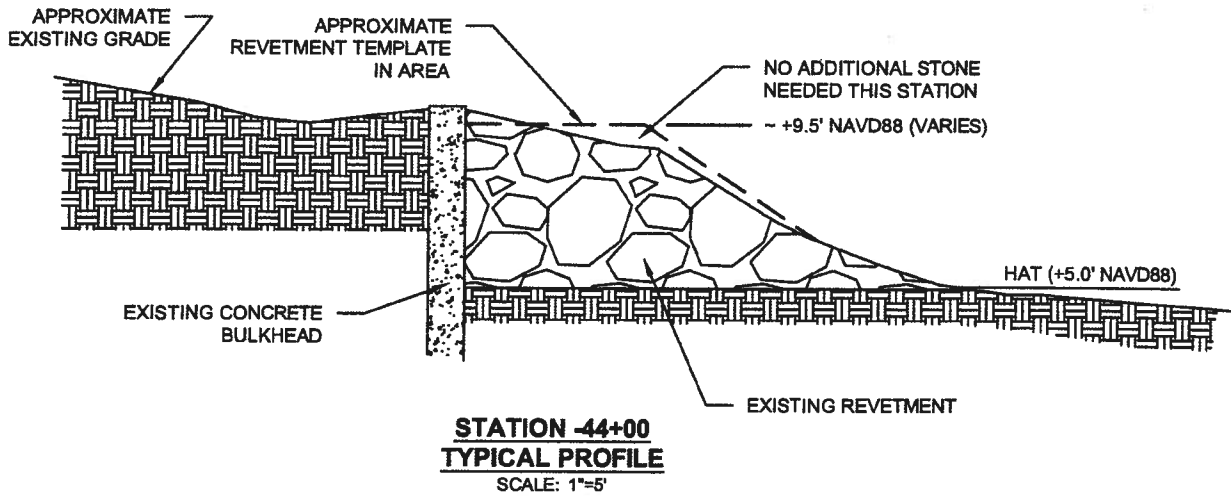
Requested by: Jekyll Island Authority

Project Address: Jekyll Island, GA

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 CONSULTING
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September 24, 2018
 SHEET 4

NWP 3 MODIFICATION DRAWING EXHIBITS



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PROJECT: Jekyll Island Emergency NWP3
 Revetment Maintenance
 Modification
WATERBODY: Atlantic Ocean
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LONGITUDE: 81°24'07.36"W

NWP3 PERMIT MODIFICATION
 TYPICAL PROFILES

Requested by: Jekyll Island Authority

Project Address: Jekyll Island, GA

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September 24, 2018
 SHEET 5