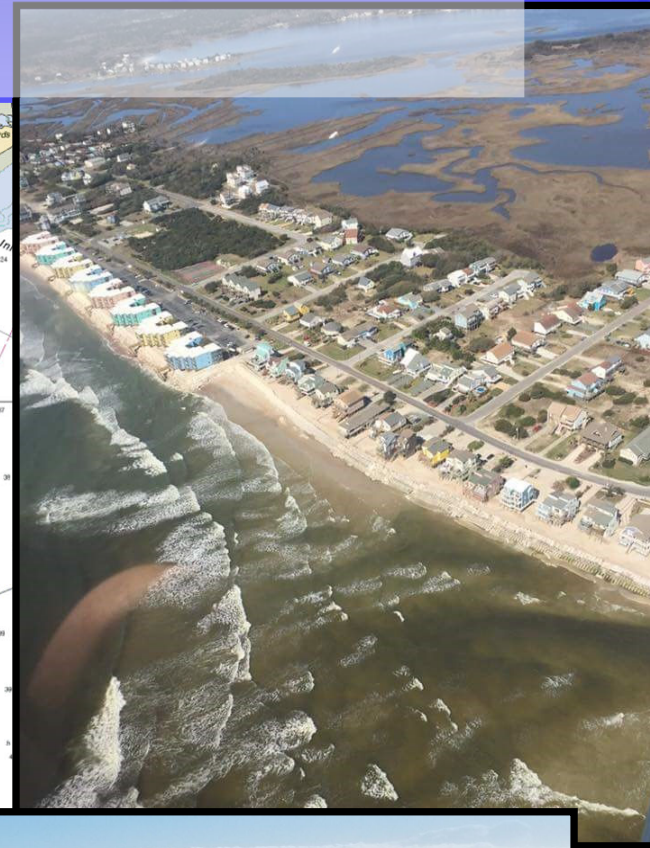
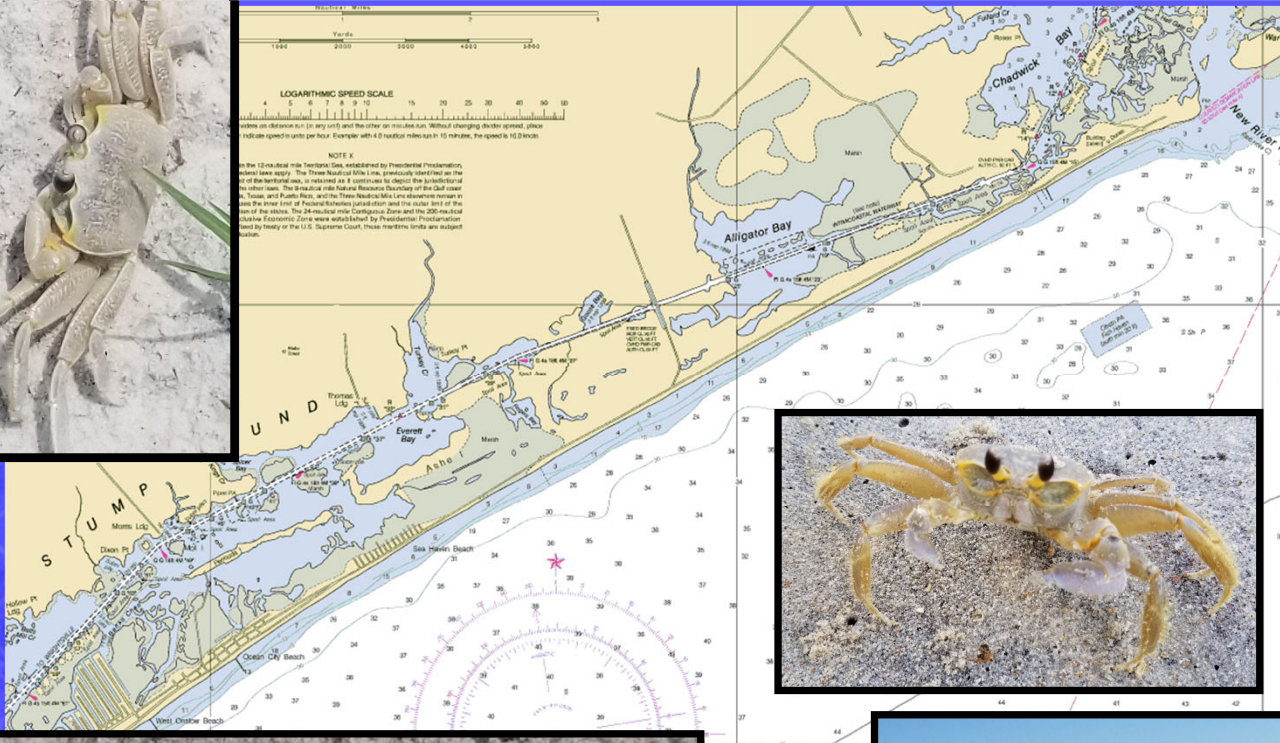


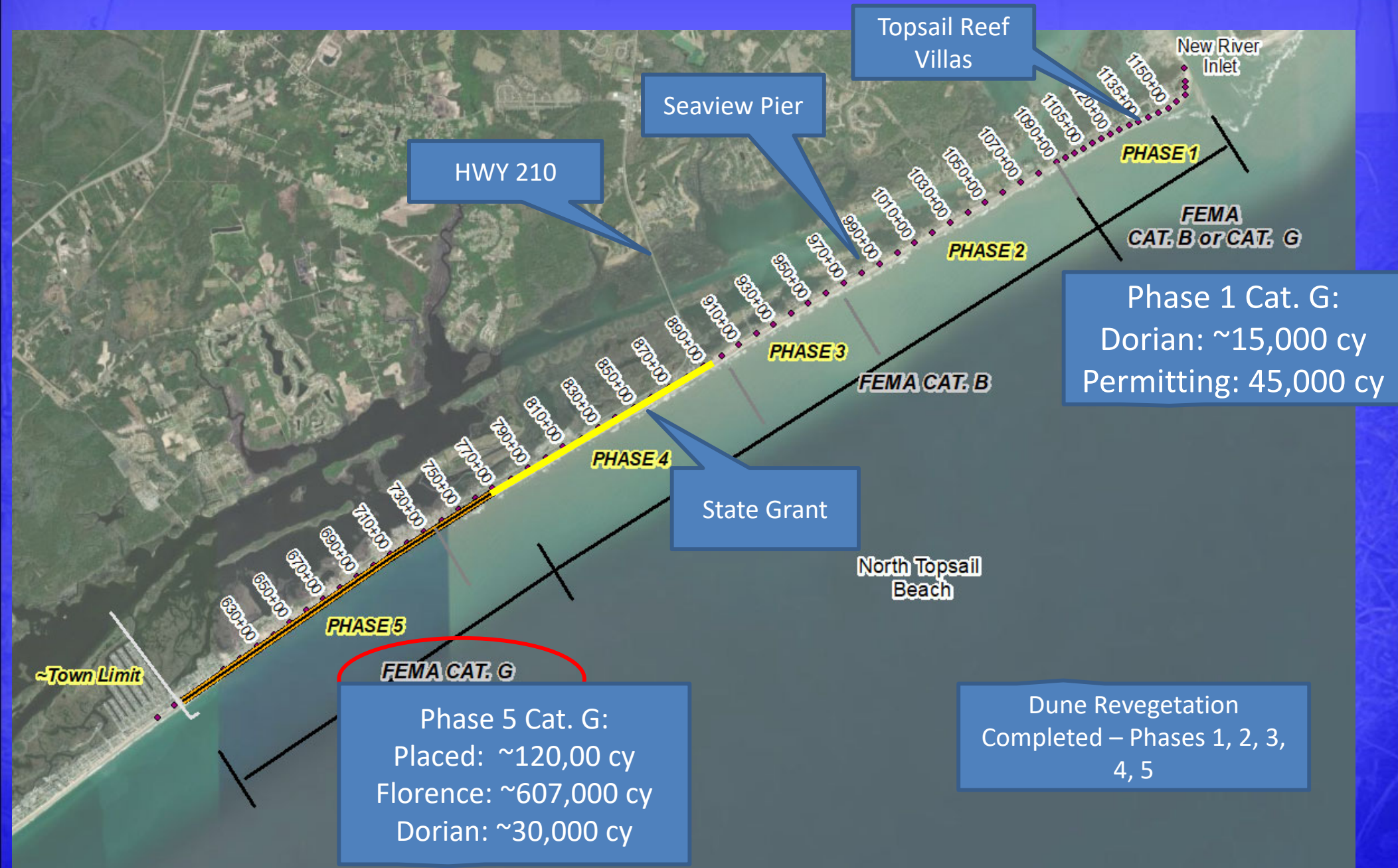
North Topsail Beach Coastal Update December 2022



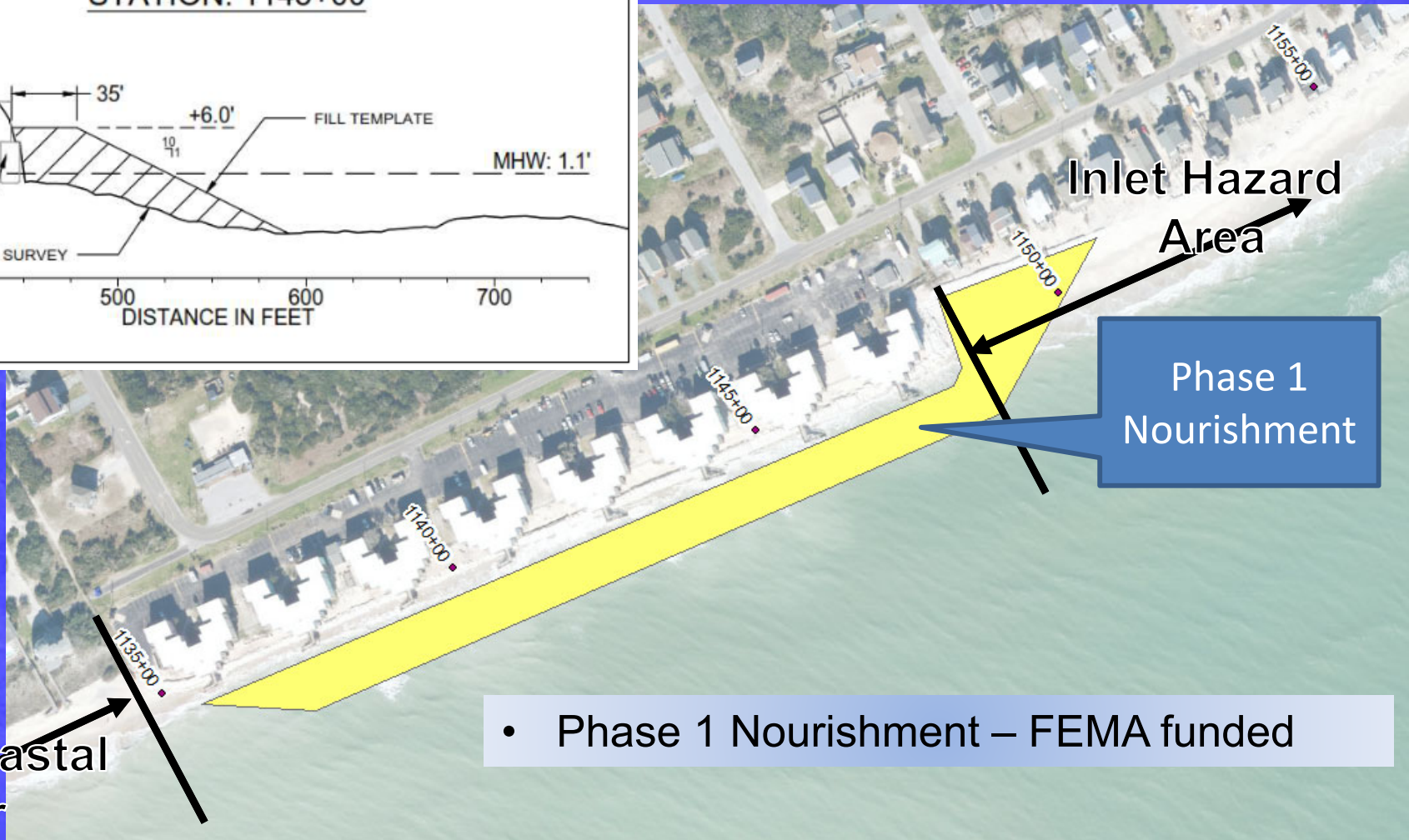
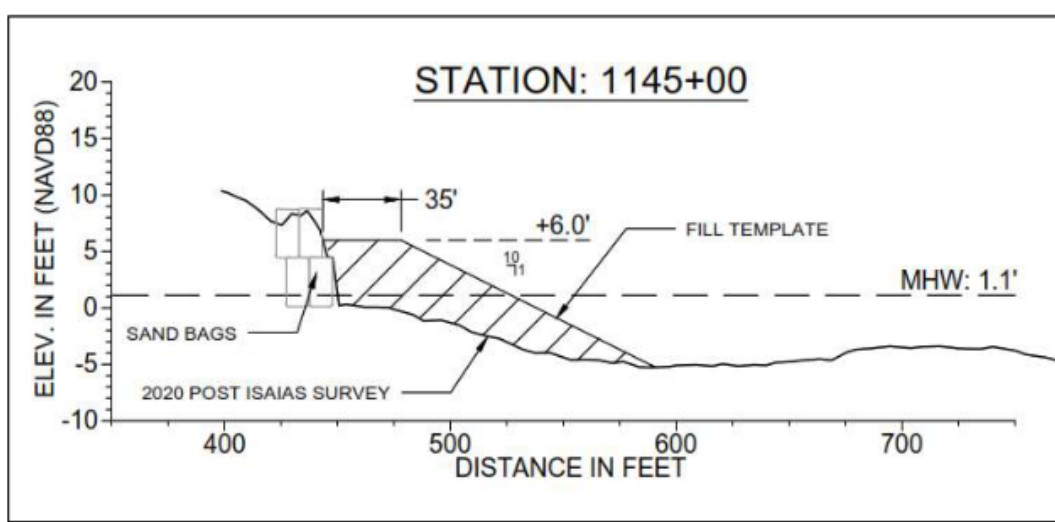
Marina, Coastal, Environmental
& Water Resources Engineers

Ongoing and Upcoming Projects Overview

State Grant, Dorian and Florence FEMA Category G.



Permitted Nourishment NON-COBRA Areas in Phase 1 Beach (not Dune) Nourishment

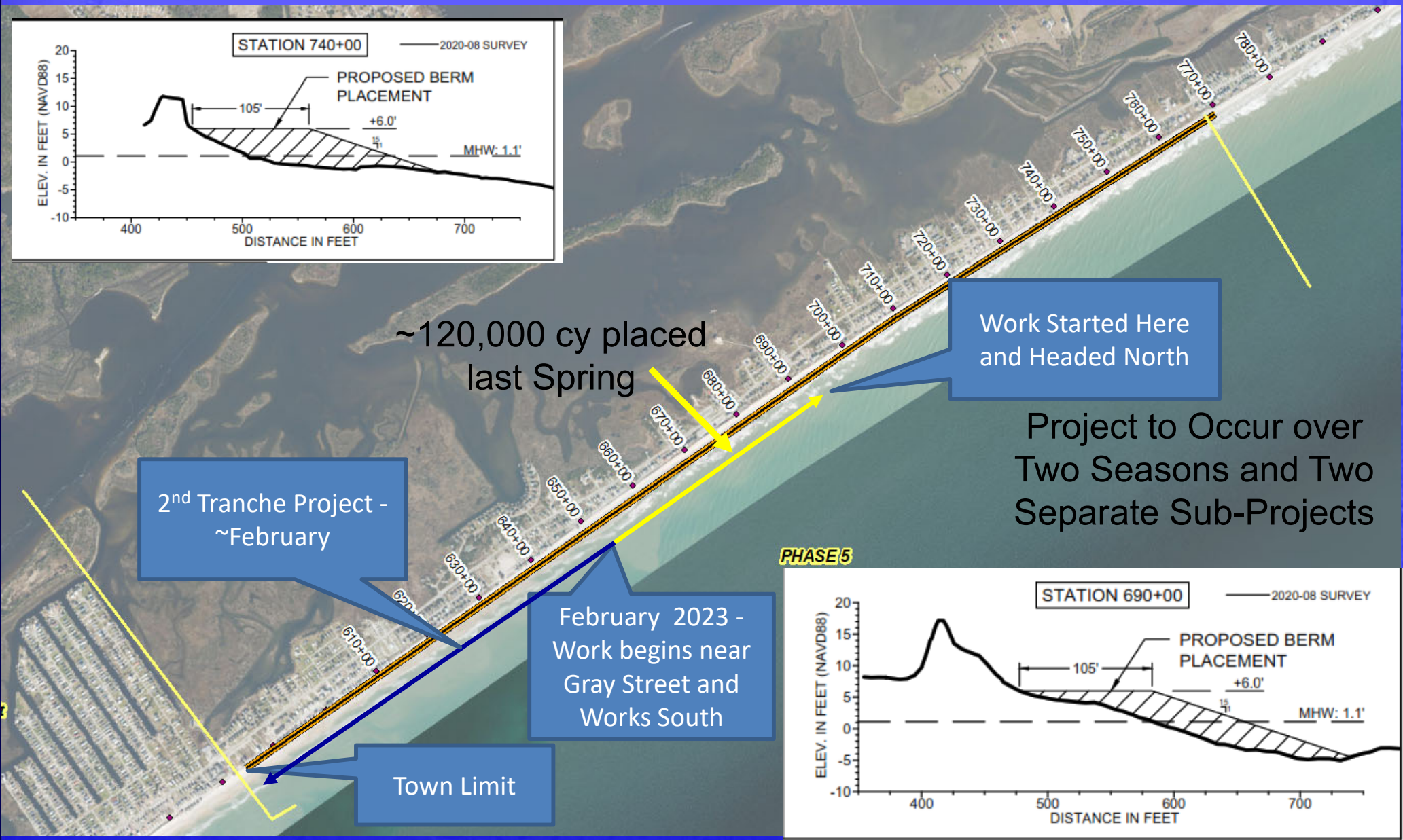


- Phase 1 Nourishment – FEMA funded

USFWS Coastal
Barrier

Resources Act Unit

Florence & Dorian Nourishment in Phase 5 Has Begun. Beach (not Dune) Nourishment



~120,000 cy placed last Spring

Work Started Here and Headed North

Project to Occur over Two Seasons and Two Separate Sub-Projects

2nd Tranche Project - ~February

February 2023 - Work begins near Gray Street and Works South

Town Limit

PHASE 5

STATION 740+00

2020-08 SURVEY

PROPOSED BERM PLACEMENT

105'

+6.0'

1:5

MHW: 1.1'

ELEV. IN FEET (NAVD88)

DISTANCE IN FEET

STATION 690+00

2020-08 SURVEY

PROPOSED BERM PLACEMENT

105'

+6.0'

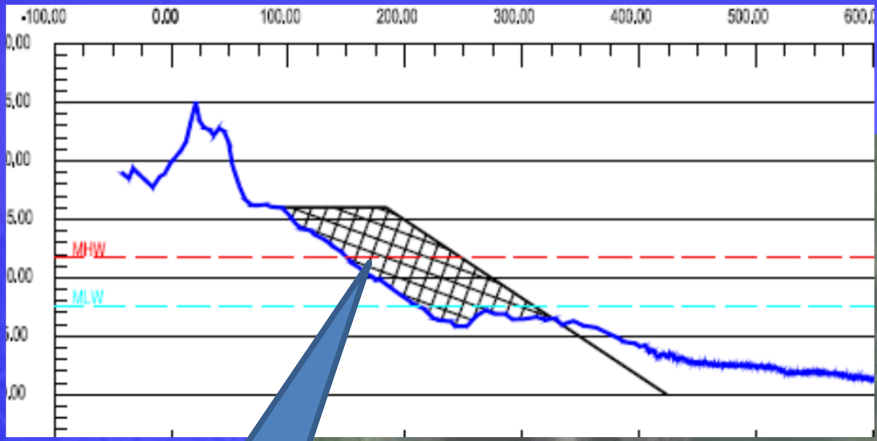
1:5

MHW: 1.1'

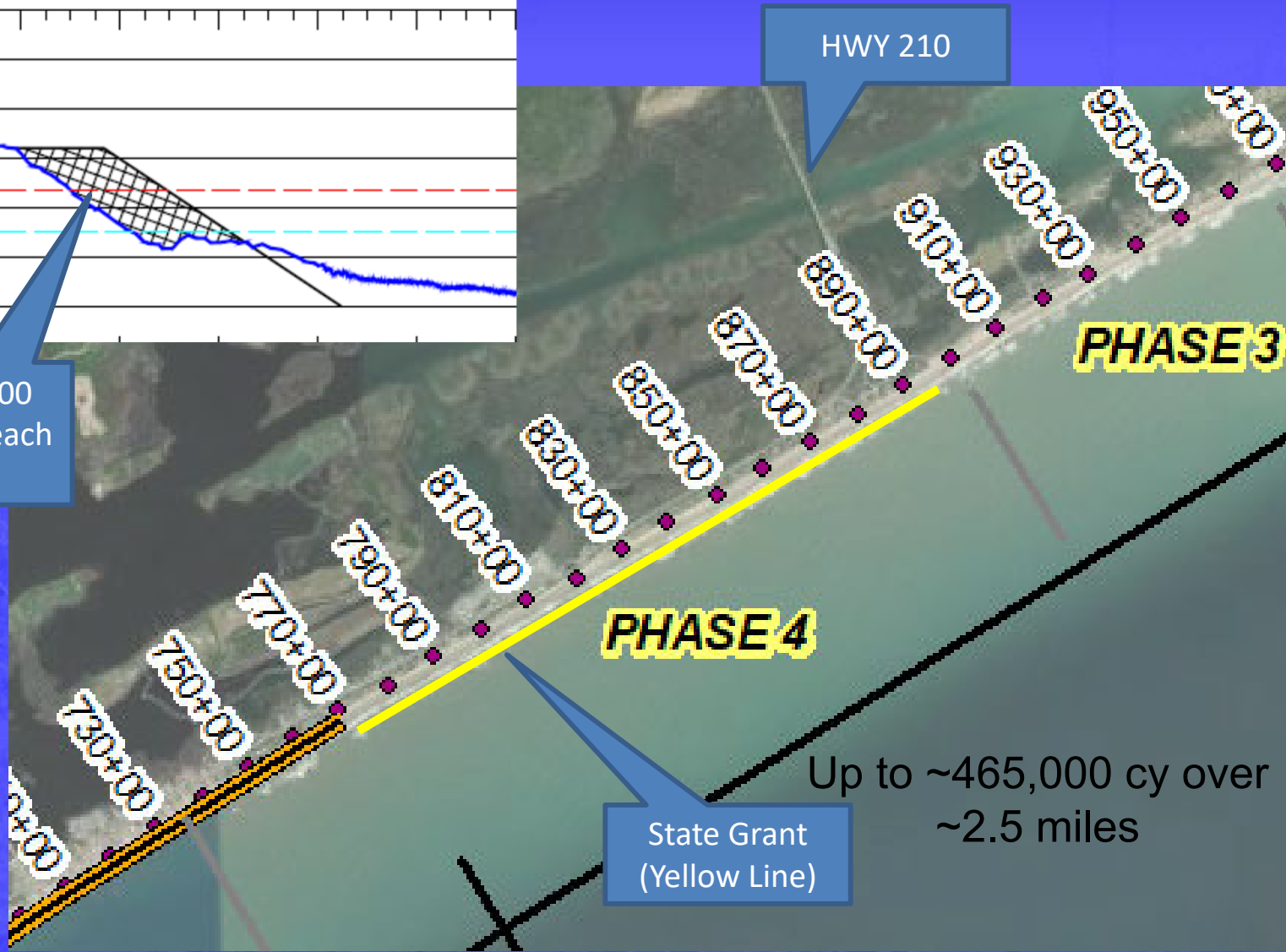
ELEV. IN FEET (NAVD88)

DISTANCE IN FEET

Successful State Grant in Phase 4. Beach (not Dune) Nourishment



~80 to 100 Feet of Beach Width



State Grant (Yellow Line)

Up to ~465,000 cy over ~2.5 miles

Project to Occur Next Season –
Permitting Ongoing

County Beach Access Dune Rehabilitation



Figure 1: Dune Material Placement (photo taken February 3, 2021).

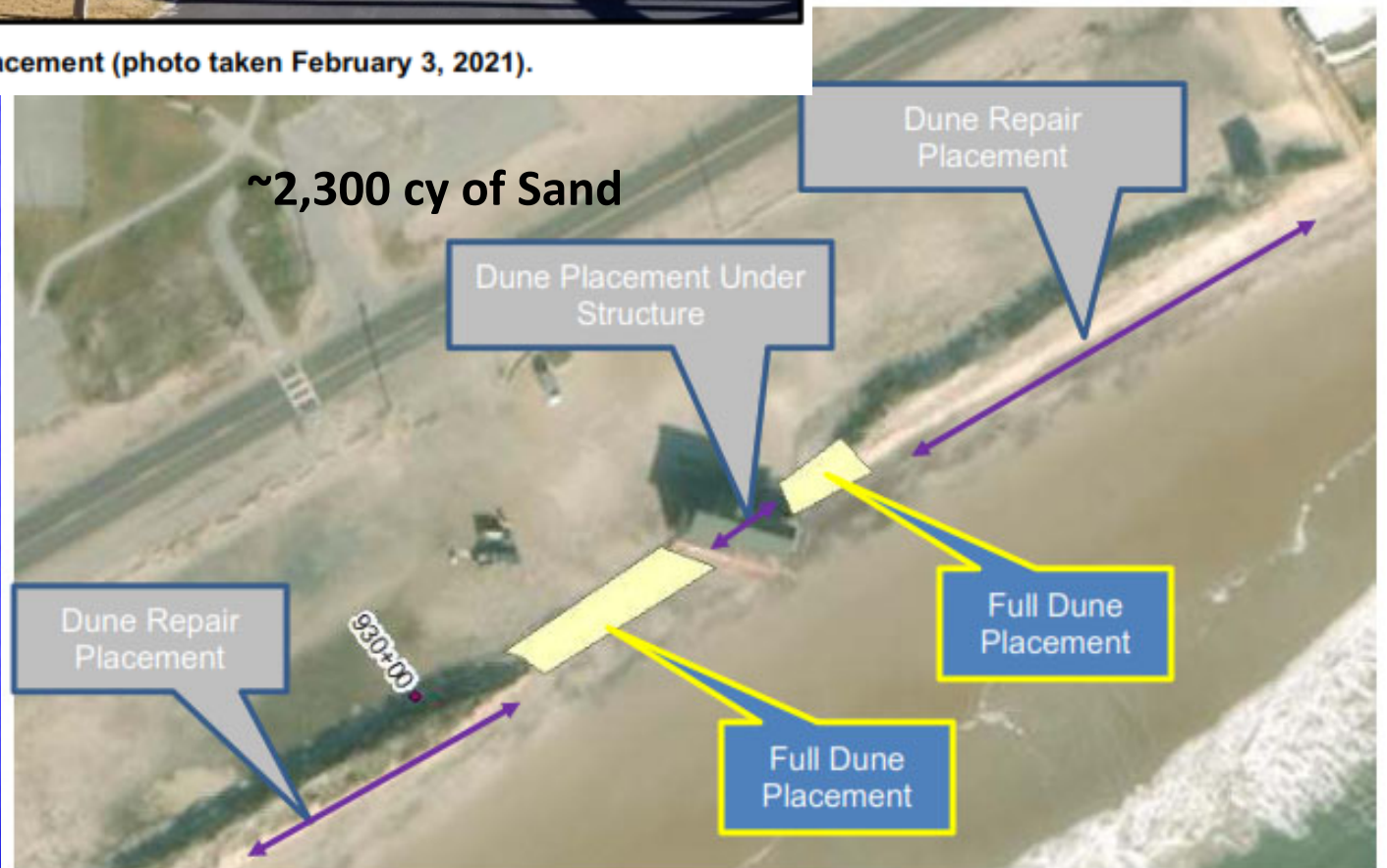
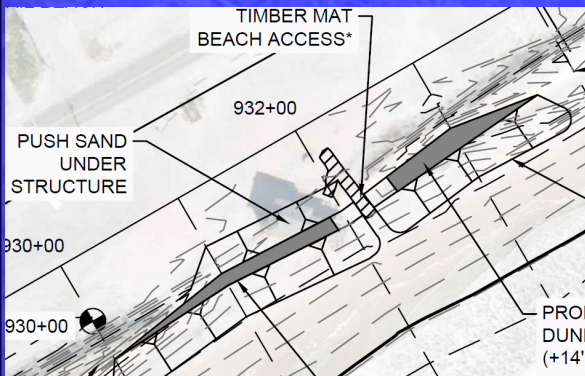


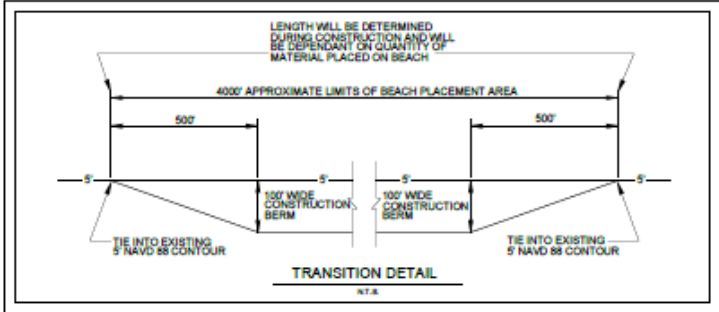
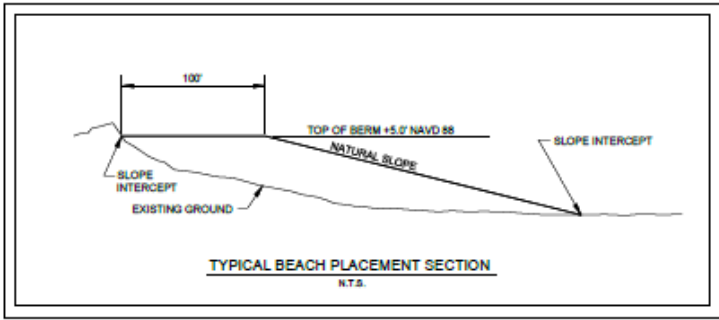
Figure 2: Plan view dune placement schematic.

AIWW/Channel Corps Dredging.

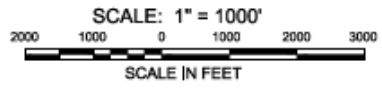
~173,000 cy.



Phase 1
Beach
Placement



- NOTES**
1. DUE TO AGE OF PHOTOGRAPHY, PIPELINE ROUTE IS APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE TOWN OF NORTH TROPICAL BEACH NO LESS THAN 15 DAYS PRIOR TO COMMENCEMENT OF PIPELINE PLACEMENT. POINT OF CONTACT WITH THE TOWN OF NORTH TROPICAL BEACH IS STEVE POSTER, TOWN MANAGER PHONE NO.: 910-338-1348. PRIOR TO THE PLACEMENT OF PIPE, THE CONTRACTOR SHALL MEET ON SITE WITH THE CONTRACTING OFFICER OR HIS/HER DESIGNATED REPRESENTATIVE AND A REPRESENTATIVE OF THE NORTH CAROLINA WILDLIFE RESOURCES COMMISSION TO DETERMINE THE EXACT PIPELINE ROUTE. AS PIPELINE IS BEING LAID, CONTRACTOR SHALL CONSTRUCT RAMPS WHERE NECESSARY TO ALLOW PASSAGE OF VEHICLES OVER PIPELINE; THIS INCLUDES BUT IS NOT LIMITED TO, ALL DRIVEWAYS FOR HOMEOWNERS.
 2. VERTICAL DATUM NAVD83. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING HORIZONTAL AND VERTICAL CONTROL PRIOR TO PLACEMENT OF DREDGED MATERIAL IN THE DESIGNATED PLACEMENT AREA.
 3. HORIZONTAL DATUM NAD 1983.
 4. PHOTOGRAPHY DATE: FEBRUARY 2019, COPYRIGHT 2019 DIGITAL GLOBE.
 5. AREA TO BE DREDGED SHOWN THIS:
 6. FOR DETAILS OF AREAS TO BE DREDGED, SEE SHEETS CH106, CH107, CH108, & CH109.
 7. THE CONTRACTOR SHALL BEGIN PLACEMENT OF DREDGED MATERIAL ON THE BEACH IN THE VICINITY OF THE INTERSECTION OF RIVER DRIVE AND NEW RIVER INLET ROAD. DUE TO ONGOING CHANGES TO THE SHORELINE CAUSED BY OCEAN WAVES, THE EXACT BEGINNING POINT FOR PLACEMENT OF DREDGED MATERIAL, WILL BE ESTABLISHED BY THE CONTRACTING OFFICER OR HIS/HER DESIGNATED REPRESENTATIVE IMMEDIATELY PRIOR TO THE START OF DREDGING AND PLACEMENT OPERATIONS. PLACEMENT OF THE 100-FOOT WIDE BERM SHALL CONTINUE DOWN THE BEACH AS FAR AS THE QUANTITY OF DREDGED MATERIAL WILL ALLOW.
 8. ALL CONTRACTOR OPERATIONS SHALL BE PERFORMED IN A MANNER THAT AVOIDS DAMAGE TO EXISTING SANDBAGS, STRUCTURES AND ROADS. SANDBAGS, STRUCTURES AND ROADS DAMAGED BY CONTRACTOR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE CONTRACTING OFFICER OR HIS/HER DESIGNATED REPRESENTATIVE AT NO COST TO THE GOVERNMENT OR TO THE OWNERS OF THE DAMAGED PROPERTY. IN ORDER TO MINIMIZE THE RISK OF DAMAGE, WHEELED OR TRACKED EARTH MOVING EQUIPMENT SHALL NOT WORK CLOSER THAN 10 FEET FROM STRUCTURES DURING ALL WORK INCLUDING DISTRIBUTION AND MOVEMENT OF BEACH FILL MATERIAL. EXISTING SANDBAGS BELOW ELEVATION 5 FEET THAT LIE WITHIN THE BEACH FILL LIMITS SHALL BE COVERED WITH FILL EXCEPT EXISTING SANDBAGS AT TROPICAL REEF. REEF SHALL NOT BE COVERED. IN AREAS WHERE IT IS NOT POSSIBLE TO TIE INTO THE 5-FOOT CONTOUR, THE CONTRACTOR SHALL CONSTRUCT THE BACKSLOPE TO THE NATURAL ANGLE OF REPOSE.
 9. NORTH TROPICAL BEACH AND THE INLET BEACH ARE CONSIDERED SUITABLE HABITAT FOR SHORE BIRDS AND SEA TURTLES. ALL WORK ON THE BEACH INCLUDING PIPE REMOVAL SHALL BE COMPLETED BY 31 MARCH 2023. SEE PARAGRAPH ENVIRONMENTAL WINDOWS OF SECTION 04 57 19 OF THE SPECIFICATIONS FOR ENVIRONMENTAL WINDOWS AND RESTRICTIONS.



Town Beach Projects Updates

- Phase 5 Beach Nourishment - ST Wooten started hauling and working north. ~180,000 cy remain. Gray Street access being used.
- Separate 2nd Tranche Truck Haul for Phase 5 - ~290,000 cy. Start at Gray Street and work south – February 2023
- Hurricane Dorian Phase 1 FEMA Category G (15,000 cy) near Topsail Reef Villas and ~45,000 cy permitted (Nov 16, 2022, to April 1, 2023).
- USACE AIWW/Channel Dredging and Phase 1 Placement
- New River Inlet Management Master Plan EIS: Continued EIS processing and meetings. Additional Modeling
- Working with NTB Finance Officer and DEC Associates regarding funding for FEMA and State funded projects
- Permitting Coordination (all projects)
- County Beach Access
- State Grant (Phase 4)

