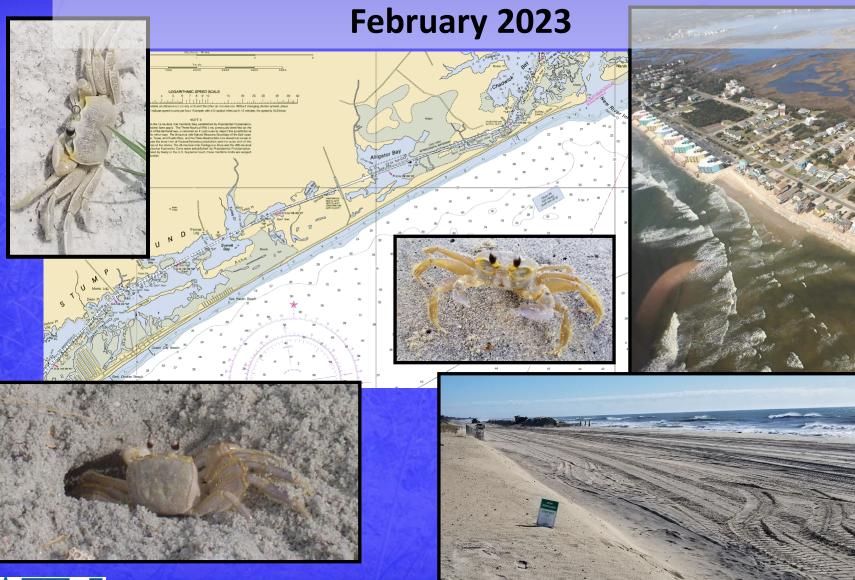
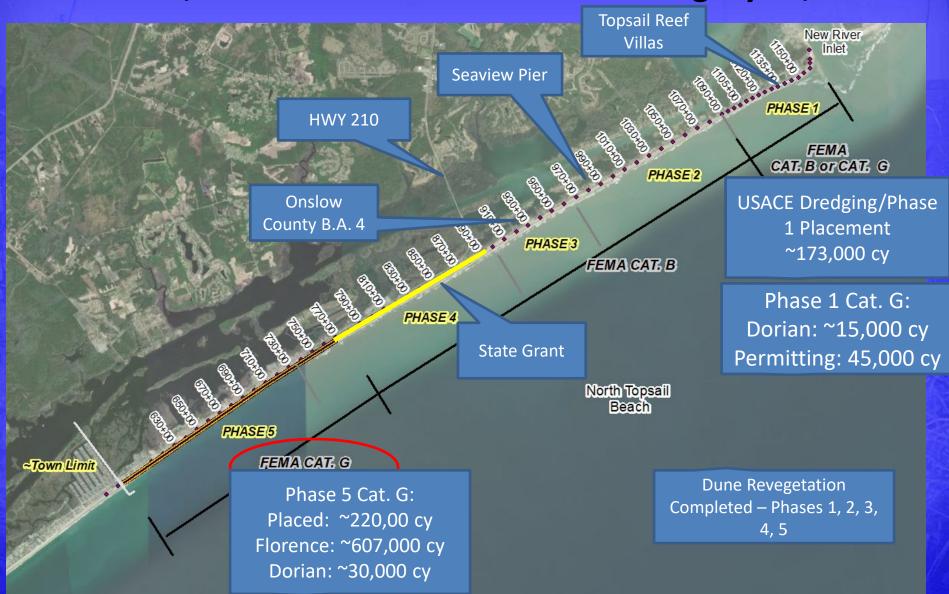
North Topsail Beach Coastal Update

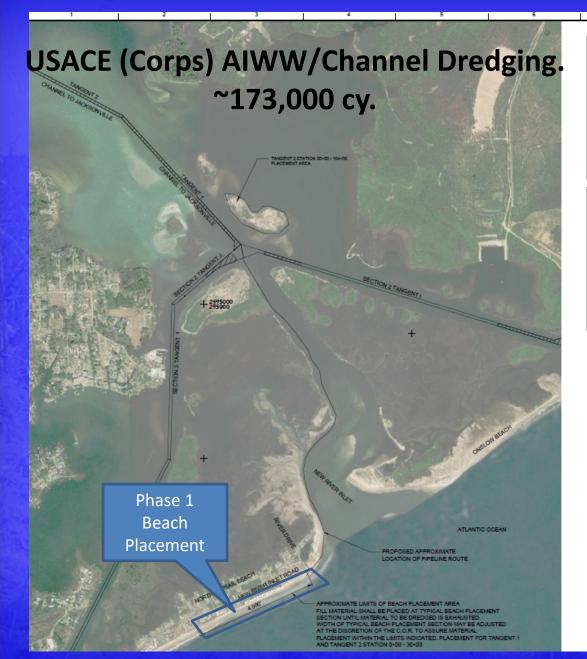


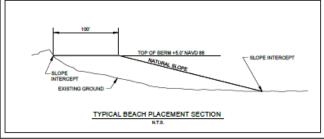


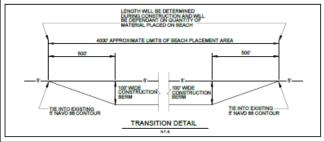
Marina, Coastal, Environmental & Water Resources Engineers

Ongoing and Upcoming Projects Overview State Grant, Dorian and Florence FEMA Category G., USACE







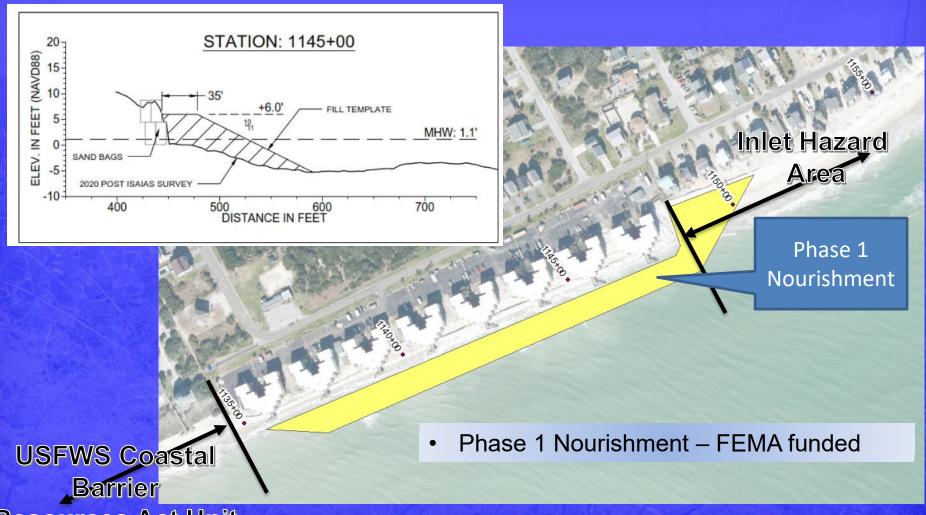


NOTES

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- VERTICAL DATUM NAVDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING HORIZONTAL AND VERTICAL
 CONTROL PRIOR TO PLACEMENT OF DREDGED MATERIAL IN THE DESIGNATED PLACEMENT AREA.
- 5. HORIZONTAL DATUM NAD 1985.
- 4. PHOTOGRAPHY DATE: FEBRUARY 2019, COPYRIGHT 2019 DIGITAL GLOBE.
- S. AREA TO BE DREDGED SHOWN THUS P77777777777
- 6. FOR DETAILS OF AREAS TO BE DREDGED, SEE SHEETS CN108, CN107, CN108, & CN109.
- 7. THE CONTRACTION SHALL BEGIN PLACEMENT OF DEBOGGO MATERIAL OF THE BEACH IN THE WIGHTH OF THE INTERSECTION OF PRIEST DRIVE AND EVER PRIEST HER TOWN. DEET OF CONCIDENC CHARGES TO THE GENORISE CHARGES OCCURRENCED THE EXACT BECOMENS FROM FOR PLACEMENT OF DEBOGGO METRIAL WILL BE SET ALLISHED BY THE CONTRACTION OFFICIENT OF HEART DESIGNATION OF PRESENDATION WE INDEMOCRATELY PRIOR TO THE STATE OF DEBOGGING AND PLACEMENT OPERATIONS. PLACEMENT OF THE WORFOOT WICE BEING SHALL CONTINUE DOWN THE BEACH AS FAR AS THE CHARMITY OF DEBOGGO METRIAL WILL ALLICE.
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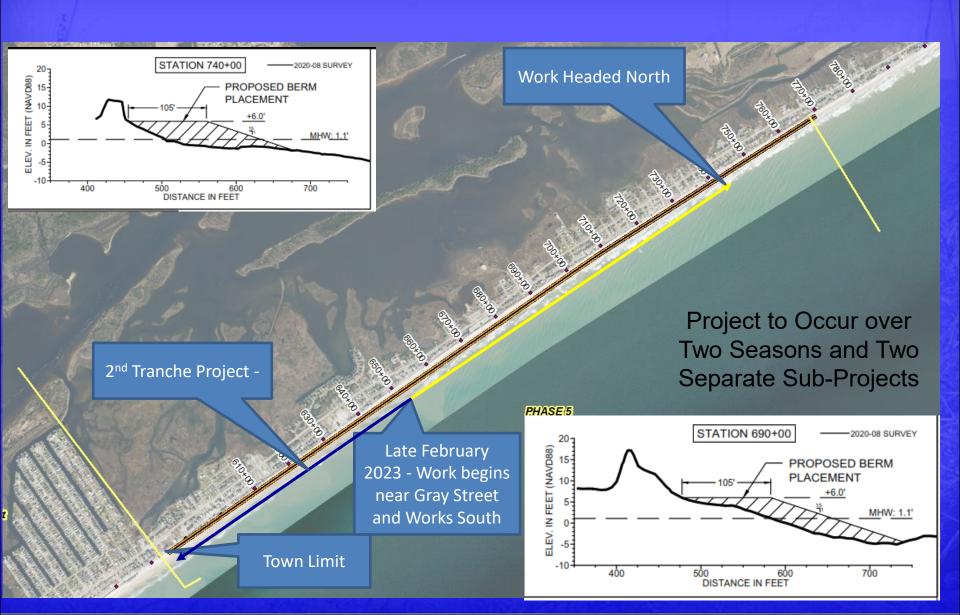


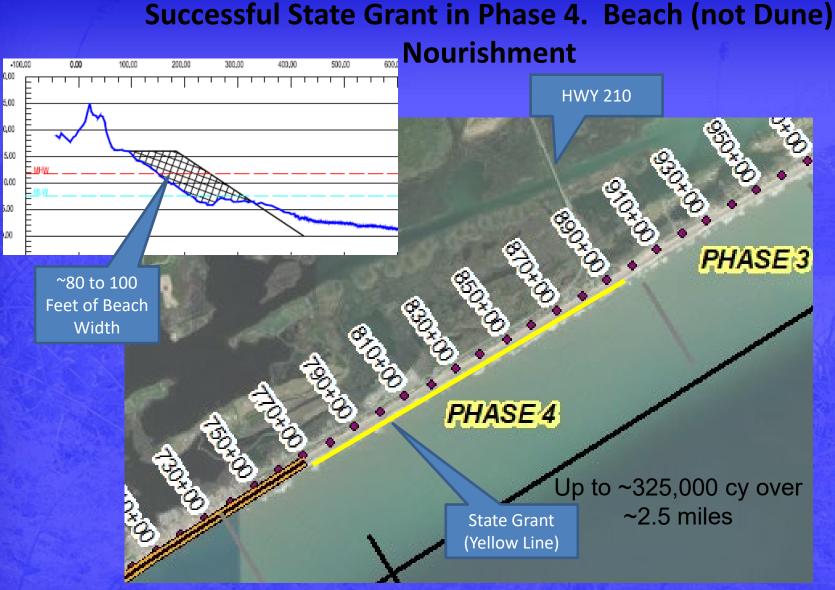
Permitted Nourishment NON-COBRA Areas in Phase 1 Beach (not Dune) Nourishment



Resources Act Unit

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





Project to Occur Next Season – Permitting Ongoing

County Beach Access Dune Rehabilitation





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

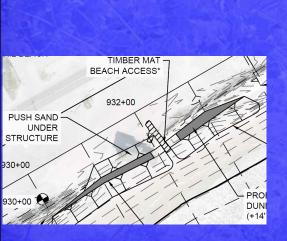




Figure 2: Plan view dune placement schematic.

Town Beach Projects Updates

- USACE AIWW/Channel Dredging and Phase 1 Placement (~173,000 cy)
- 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).
- New River Inlet Management Master Plan EIS: Continued EIS processing and meetings. Additional Modeling Completed.
- County Beach Access (Phase 3)
- State Grant Nourishment (Phase 4 and connects with Phase 5 Truck Haul)
- Phase 5 Beach Nourishment ST Wooten started hauling and working north.
 ~220,000 cy placed, ~80,000 cy remain.
- Separate 2nd Tranche Truck Haul for Phase 5 ~290,000 cy. Start at Gray
 Street and work south Late February 2023
- Working with NTB Finance Officer and DEC Associates regarding funding for
 - FEMA and State funded projects
- Permitting Coordination (all projects)