



**US Army Corps  
of Engineers®**

# PUBLIC NOTICE

Applicant: NJDOT-OMR  
**30-Day Public Notice**

Published: February 2, 2026  
Expires: March 4, 2026

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**Philadelphia District  
Permit Application No. NAP-2026-00027-95**

TO WHOM IT MAY CONCERN: The Philadelphia District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403). The purpose of this public notice is to solicit comments from the public regarding the work described below:

**APPLICANT:** New Jersey Department of Transportation  
Office of Maritime Resources  
Attn: Ms. Genevieve Clifton  
P.O. Box 600  
1035 Parkway Avenue  
Trenton, New Jersey 08625-0600

**AGENT:** WSP, USA  
Attn: Ms. Katie Axt  
250 W 34th Street, 4 FL  
New York, New York 10119

## **WATERWAY AND LOCATION:**

The project would affect waters of the United States and navigable waters of the United States sited at the following channels within the tidal Barnegat Bay in the Townships of Stafford, Egg Harbor, Long Beach, Eagleswood, and Barnegat; all in Ocean County, New Jersey: Margos State Navigation Channel #143, Beach Haven West State Navigation Channel #144, Mill Creek State Navigation Channel #145, and Little Egg State Navigation Channel #157.

## **EXISTING CONDITIONS:**

The permit applicant, the New Jersey Department of Transportation – Office of Maritime Resources (NJDOT-OMR), has requested Department of the Army (DA) authorization to perform ten (10)-year maintenance dredging of Ship Bottom State Navigation Channel Complex: Margos State Navigation Channel #143, Beach Haven West State Navigation Channel #144, Mill Creek State Navigation Channel #145, and Little Egg State Navigation Channel #157. Navigability of these waterways has become impaired by sediment accumulation, resulting in shoaling conditions which have impacted vessels' ability to safely transit within southern Barnegat Bay.

A review of available records indicates that the State navigation channels proposed for maintenance dredging have been historically dredge-maintained. The applicant seeks a ten-year maintenance dredging permit to be able to continue to maintain sufficient water depths within the State navigation channel complex. The subject maintenance dredging project is intended to restore the Ship Bottom State Navigation Channel Complex to authorized project dimensions. No lateral expansion or deepening is proposed.

### **PROJECT PURPOSE:**

The stated purpose of this project is to maintain safe navigational depths for transiting emergency, commercial, and recreational vessels.

### **PROPOSED WORK:**

The proposed ten-year maintenance dredging work would be accomplished via hydraulic cutterhead dredge or mechanical dredge. All resultant dredged material, estimated to total 166,100-cubic yards of 50% sand and 50% silt and clay, would be transported via floating and submerged pipeline and hydraulically pumped, or mechanically dredged and placed, into a subaqueous former sand borrow pit known as Dredged Hole #61 (DH#61), located in Barnegat Bay in Long Beach, Ocean County, New Jersey, for aquatic habitat restoration.

Mechanical and hydraulic discharge of approximately 352,300-cubic yards of dredged material from Department of the Army-permitted maintenance dredging projects, to include the subject Ship Bottom State Navigation Channel Complex, into DH#61 is proposed to be undertaken to restore the 26.27-acre subaqueous former sand borrow pit to natural topography by achieving a sea bottom restoration elevation of -7.0 feet Mean Low Water (MLW). A permit application for the proposed restoration of DH#61 by NJDOT-OMR is currently being reviewed by this office under a Nationwide General Permit #27 Aquatic Habitat Restoration, Enhancement, and Establishment Activities (permit application number NAP-2025-00404-95).

Each maintenance dredging event is anticipated to be approximately nine (9) to twelve (12) weeks in duration, including mobilization/demobilization, dredging, and dredged material disposal activities. Two (2) or three (3) maintenance dredging events are anticipated to be conducted over the next ten (10)-years, with the initial dredging event proposed to be undertaken in Fall 2026.

For navigational safety, the hydraulic dredge pipeline will be marked in accordance with U.S. Coast Guard regulations.

### **Margos State Navigation Channel #143 (39.663720, -74.204316)**

Maintenance dredging of 15,850.0-cubic yards of shoaled sediments from a 9.55-acre channel template to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge and 3:1 side slopes is proposed.

Beach Haven West State Navigation Channel #144 (39.657639, -74.208689)

Maintenance dredging of 19,620.0-cubic yards of shoaled sediments from a 6.59-acre channel template to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge and 3:1 side slopes is proposed.

Mill Creek State Navigation Channel #145 (39.647136, -74.217525)

Maintenance dredging of 23,030.0-cubic yards of shoaled sediments from an 11.32-acre channel template to -8.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge and 3:1 side slopes is proposed.

Little Egg State Navigation Channel #157 (39.560903, -74.253971)

Maintenance dredging of 107,600.0-cubic yards of shoaled sediments from a 97.83-acre channel template to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge and 3:1 side slopes is proposed.

For additional project details, see the attached plans identified as: Project Plan Sheets 1 through 35.

**AVOIDANCE AND MINIMIZATION:** The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The subject maintenance dredging project is intended to restore the Ship Bottom State Navigation Channel Complex to authorized project dimensions. No lateral expansion or deepening is proposed.

**COMPENSATORY MITIGATION:** The applicant has provided the following explanation why compensatory mitigation should not be required:

Information provided in the application has indicated that compensatory mitigation is not required because the Ship Bottom State Navigation Channel Complex has been historically dredge-maintained, with no lateral expansion or deepening proposed. All dredged material is proposed to be beneficially re-utilized for aquatic habitat restoration at the former subaqueous sand borrow pit site known as DH#61.

**CULTURAL RESOURCES:** The Corps is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government Agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, federally recognized tribes and other interested parties.

**ENDANGERED SPECIES:** The Corps has performed an initial review of the application, the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), National Marine Fisheries Service (NMFS) Section 7 Mapper, and the NMFS Critical Habitat Mapper to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur in the vicinity of the proposed project. Based on this initial review, the Corps' determination is that the proposed project may affect species and critical habitat listed below. No other ESA-listed species or critical habitat will be affected by the proposed action.

Aquatic-Based Species

<b>Species Common Name and/or Critical Habitat Name</b>	<b>Scientific Name</b>	<b>Federal Status</b>
Atlantic Sturgeon	<i>Acipenser oxyrinchus oxyrinchus</i>	Endangered
Green Sea Turtle	<i>Chelonia mydas</i>	Threatened
Kemp's Ridley Sea Turtle	<i>Lepidochelys kempii</i>	Endangered
Loggerhead Sea Turtle	<i>Caretta caretta</i>	Threatened
Leatherback Sea Turtle	<i>Dermochelys coriacea</i>	Endangered

Land-Based Species

<b>Species Common Name and/or Critical Habitat Name</b>	<b>Scientific Name</b>	<b>Federal Status</b>
Northern Long-Eared Bat	<i>Myotis septentrionalis</i>	Endangered
Tricolored Bat	<i>Perimyotis subflavus</i>	Proposed Endangered
Eastern Black Rail	<i>Laterallus jamaicensis ssp. jamaicensis</i>	Threatened
Rufa Red Knot	<i>Calidris canutus rufa</i>	Threatened
Monarch Butterfly	<i>Danaus plexippus</i>	Proposed Threatened
American Chaffseed	<i>Schwalbea americana</i>	Endangered

Swamp Pink	<i>Helonias bullata</i>	Threatened
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Regarding aquatic-based Section 7 ESA-managed species, the Corps' determination is that project activities are "not likely to adversely affect" Atlantic Sturgeon and Sea Turtles. An NLAA consultation will be prepared and submitted to NMFS-PRD for review and concurrence.

Regarding land-based Section 7 ESA-managed species, given that the proposed project is limited to in-water maintenance dredging, with all resultant dredged material proposed to be disposed in-water within a subaqueous former sand borrow pit for aquatic habitat restoration, the Corps' determination is the project activities would have "no effect" to Northern Long-Eared Bay, Tricolored Bat, Eastern Black Rail, Monarch Butterfly, American Chaffseed, and Swamp Pink.

Pursuant to Section 7 ESA, any required consultation with the U.S. Fish and Wildlife Service and National Marine Fisheries Service and will be conducted in accordance with 50 CFR part 402.

This notice serves as request to the U.S. Fish and Wildlife Service and National Marine Fisheries Service for any additional information on whether any listed or proposed to be listed endangered or threatened species or critical habitat may be present in the area which would be affected by the proposed activity.

**ESSENTIAL FISH HABITAT:** Pursuant to the Magnuson-Stevens Fishery Conservation and Management Act 1996, the Corps reviewed the project area, examined information provided by the applicant, and consulted available species information.

The Corps intends to initiate Essential Fish Habitat (EFH) consultation separately from this public notice. A separate EFH consultation package will be sent to the National Marine Fisheries Service (NMFS). The Corps will not make a permit decision until the consultation process is complete.

**NAVIGATION:** The proposed activity is located in the vicinity of the New Jersey Intracoastal Waterway Federal Navigation Channel.

**SECTION 408:** The applicant will not require permission under Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) because the activity, in whole or in part, would not alter, occupy, or use a Corps Civil Works project.

**WATER QUALITY CERTIFICATION:** In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate (WQC) is required from the State government in which the subject work is located.

**NOTE:** This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the Corps jurisdiction has not been verified by Corps personnel.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

**COMMENTS:** The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The Philadelphia District will receive written comments on the proposed work, as outlined above, until March 4, 2026. Comments should be submitted electronically to Robert Youhas at [robert.youhas@usace.army.mil](mailto:robert.youhas@usace.army.mil). Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, Philadelphia District, Attention: Robert Youhas, 1650 Arch Street, Philadelphia, PA 19103-2004. Please refer to NAP-2026-00027-95 in your comments.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a

public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

FOR: Todd A. Schaible  
Chief, Regulatory Branch

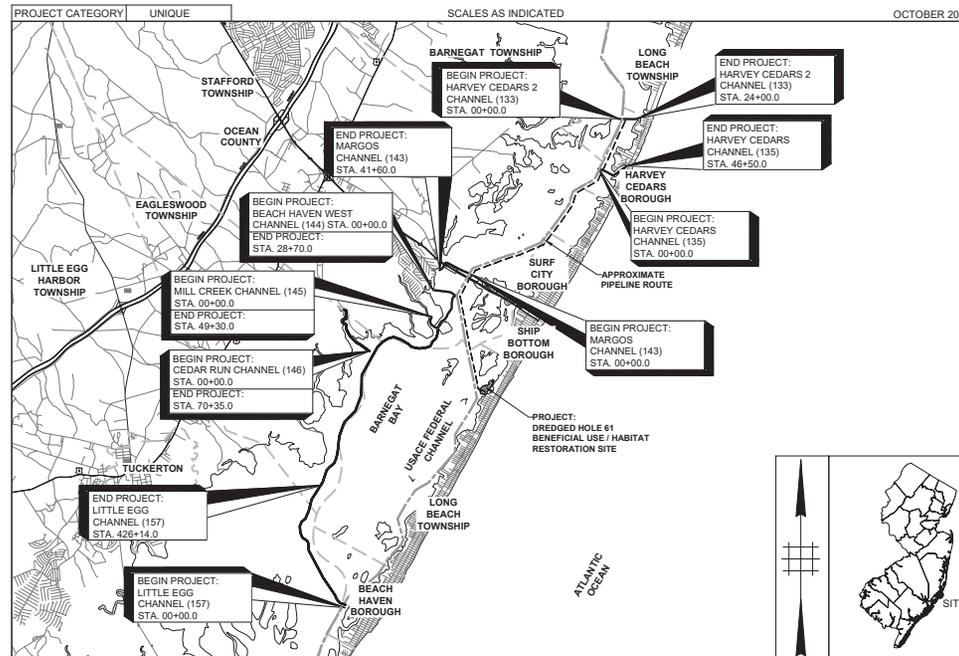
# State of New Jersey Department of Transportation



PLANS OF

## MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61

BOROUGHES OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY,  
TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH, AND  
STAFFORD, COUNTY OF OCEAN, NEW JERSEY



### KEY MAP

TOTAL LENGTH OF PROJECT = ±68,659 LIN. FT. OR 13.004 MILES  
2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

OCTOBER 2025

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	KEY SHEET
2	SHIP BOTTOM CHANNEL COMPLEX TO DREDGED HOLE 61 PIPELINE ROUTE PLAN
3 - 4	MARGOS CHANNEL - CHANNEL ARRANGEMENT & GEOMETRY PLAN
5 - 6	MARGOS CHANNEL - CHANNEL BATHYMETRY PLAN
7 - 8	BEACH HAVEN WEST CHANNEL - CHANNEL ARRANGEMENT & GEOMETRY PLAN
9 - 10	BEACH HAVEN WEST CHANNEL - CHANNEL BATHYMETRY PLAN
11 - 13	MILL CREEK CHANNEL - CHANNEL ARRANGEMENT & GEOMETRY PLAN
14 - 16	MILL CREEK CHANNEL (145) - CHANNEL BATHYMETRY PLAN
17	CHANNEL 143 - 145 GEOMETRY & SAMPLING LOCATION COORDINATE TABLES
18 - 24	LITTLE EGG CHANNEL (157) - CHANNEL ARRANGEMENT & GEOMETRY PLAN
25 - 32	LITTLE EGG CHANNEL (157) - CHANNEL BATHYMETRY PLAN
33	CHANNEL 157 GEOMETRY & SAMPLING LOCATION COORDINATE TABLES
34	NJDEP PERMIT PLANS - HABITAT RESTORATION AERIAL OVERVIEW
35	NJDEP PERMIT PLANS - HABITAT RESTORATION PLAN

STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL BRIDGE CONSTRUCTION DETAILS BOOKLET, 2016 AND STANDARD ELECTRICAL DETAILS BOOKLET, 2016 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

MID-POINT OF PROJECT  
NORTHING: 289,621  
EASTING: 577,498

**PERMITS PLANS  
NOT FOR CONSTRUCTION**

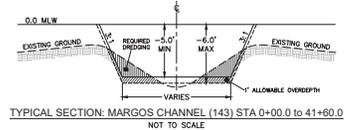
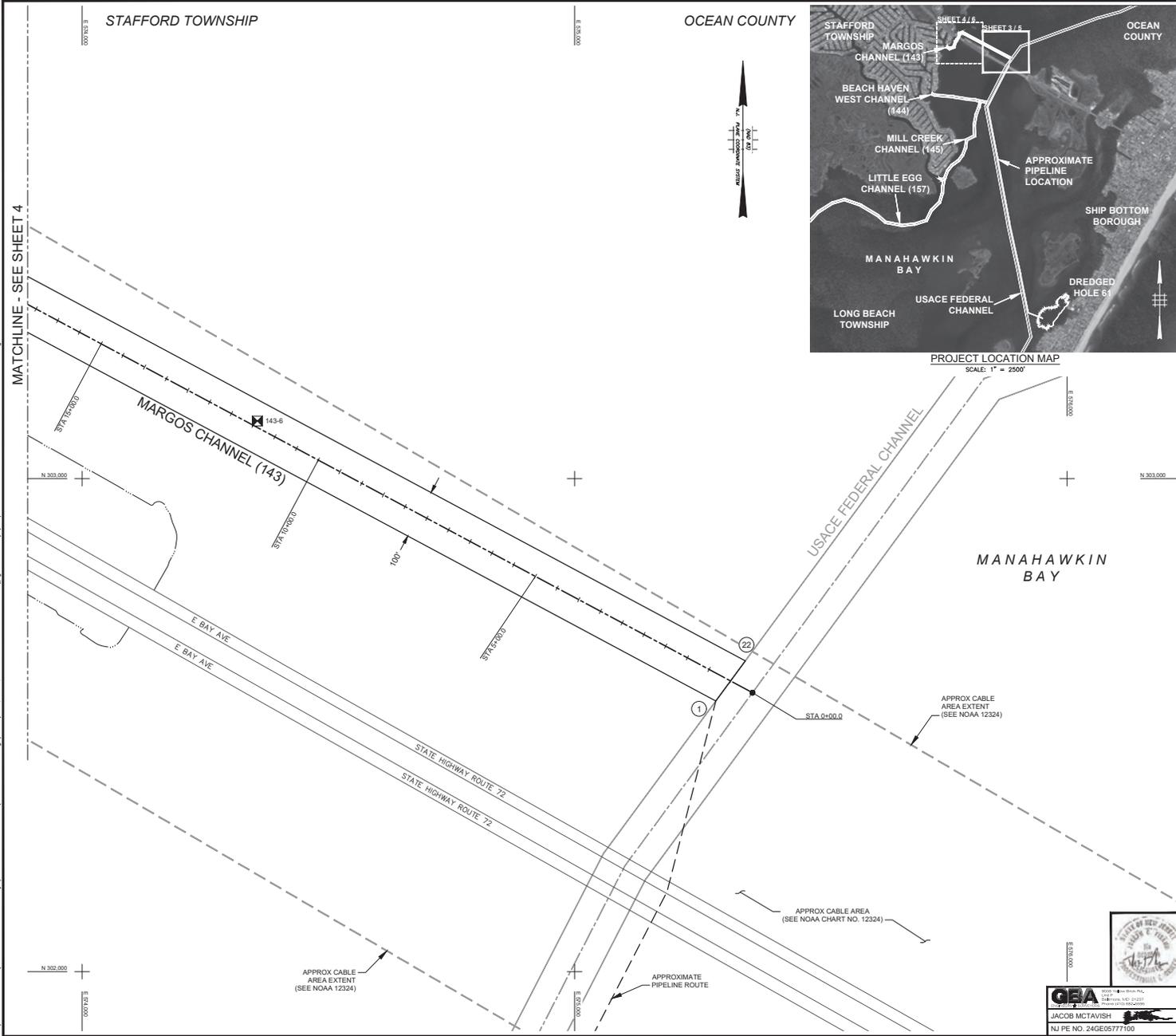
\*CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY THE CONSULTANT MAY BE DETERMINED BY COMPARISON OF THE PLANS FILED AT THE DEPARTMENT WITH THOSE FILED AT THE OFFICE OF THE CONSULTANT.\*

WSP USA INC.  
CERTIFICATE OF AUTHORIZATION NO. 24GA280229800  
Joseph C. Fisahn, Joseph C. Fisahn  
(US, JP 1033386)  
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05650600

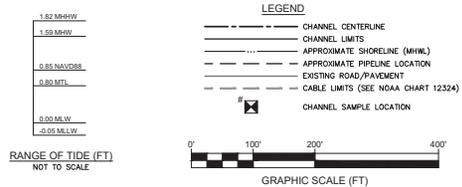


G:\Shared drives\Library\Beach Haven West\2025 Permitting\DWG\143\_144\_145 - Channel Plans (Pg 3 to 17)\ShipBottom\_143-145\_Permit\_Plans\_250415.dwg

MATCHLINE - SEE SHEET 4



- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.85 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.



BY		APPR							
DESCRIPTION									
DATE									

**STATE OF NEW JERSEY**  
**NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: MARGOS CHANNEL (143)**  
**CHANNEL ARRANGEMENT & GEOMETRY PLAN**

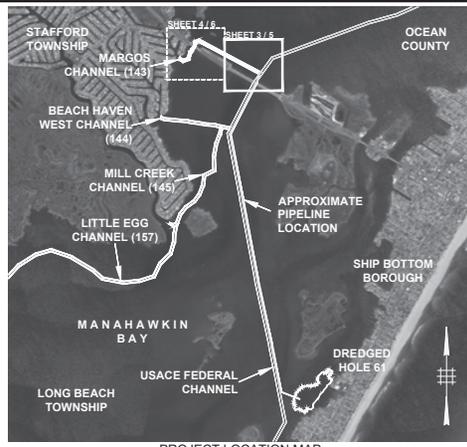
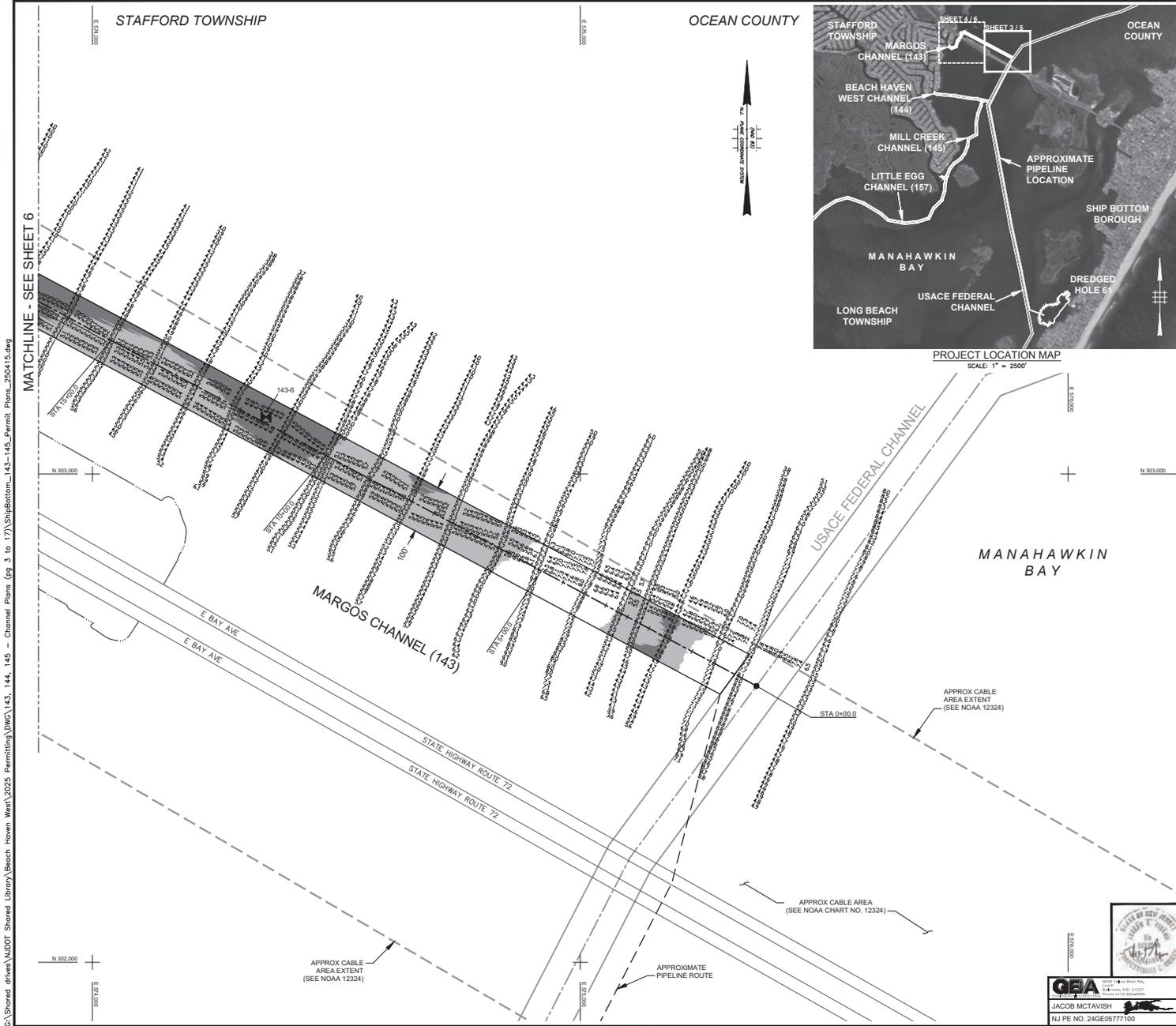
**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA INC.	CERTIFICATION OF AUTHORIZATION	PROJECT NO.
CHECKED BY: JAM	NO. 24GA28228600		SHEET 3 OF 35
SCALE: AS SHOWN	JOSEPH C. FISHER	NEW JERSEY PROFESSIONAL ENGINEER	DWG. NO. PERMIT - 02
DATE: OCT 2025	NO. 24GE05650600		

**G&A**  
 JACOB MCTAVISH  
 NJ PE NO. 24GE05777100







CHANNEL VOLUMES BASED ON DECEMBER 4, 2019  
CONDITIONAL SURVEY DATA

	MARGOS CHANNEL (143) 0+00.0 to 41+60.0
TEMPLATE (± MLW)	8.952
OVERDEPTH (± MLW)	8.973
TOTAL (CT)	15.850

- NOTES
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.85 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - CONDITIONAL (COND) SOUNDING DATA SHOWN WAS COLLECTED ON DECEMBER 4, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
  - THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MARGOS CHANNEL (143)  
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61 BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISARNY NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05650600	SHEET 5 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 04

APPROX CABLE AREA EXTENT (SEE NOAA 12324)

APPROXIMATE PIPELINE ROUTE

C:\Shared drives\NJDOT Shared Library\Beach Haven West\2025 Permitting\DMG\143, 144, 145 - Channel Plans (Pg 3 to 17)\ShipBottom\_143-145\_Permit\_Plans\_250415.dwg

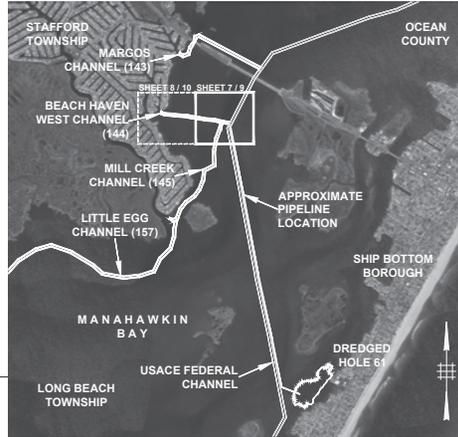
MATCHLINE - SEE SHEET 6



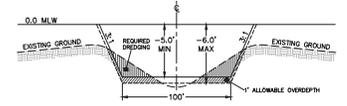
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STAFFORD  
TOWNSHIP

OCEAN  
COUNTY



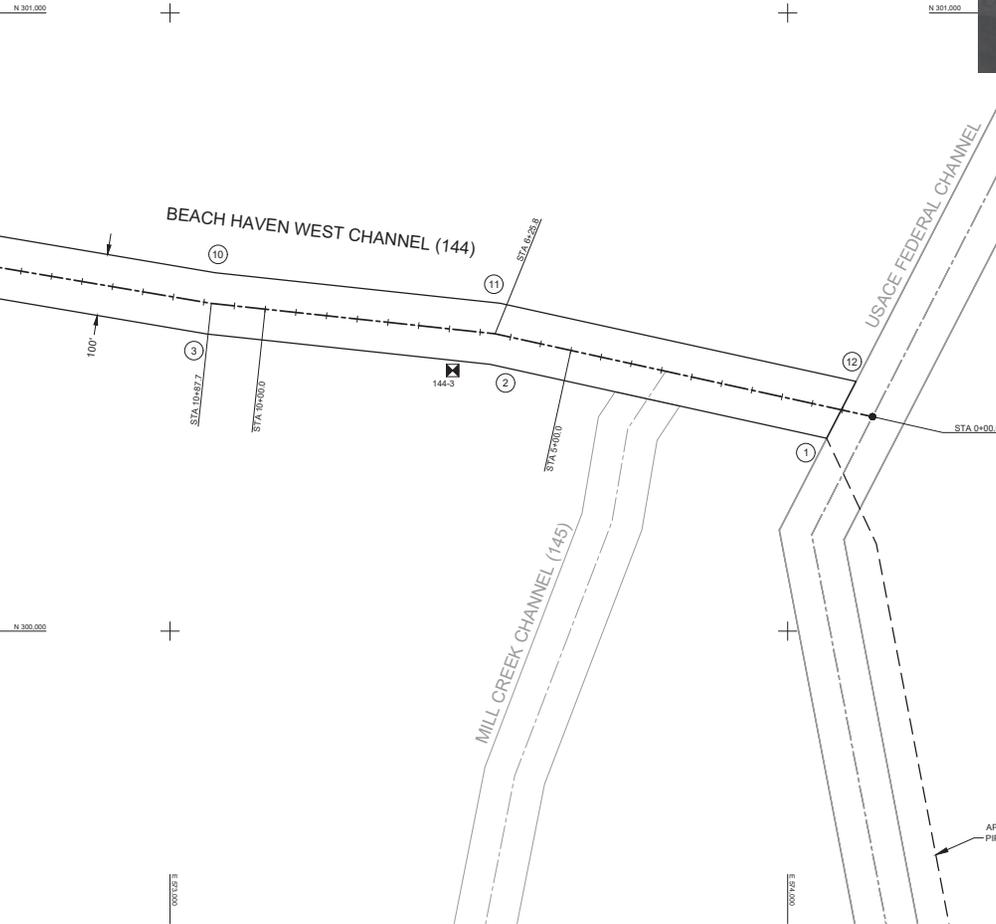
PROJECT LOCATION MAP  
SCALE: 1" = 2500'



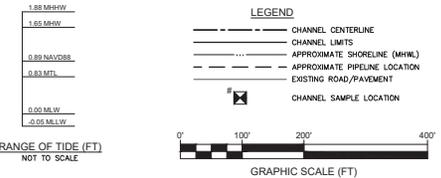
TYPICAL SECTION: BEACH HAVEN WEST CHANNEL (144) STA 0+00.0 TO 28+70.0  
NOT TO SCALE

- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.89 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  3. EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

MATCHLINE - SEE SHEET 8



MANAHAWKIN  
BAY



STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

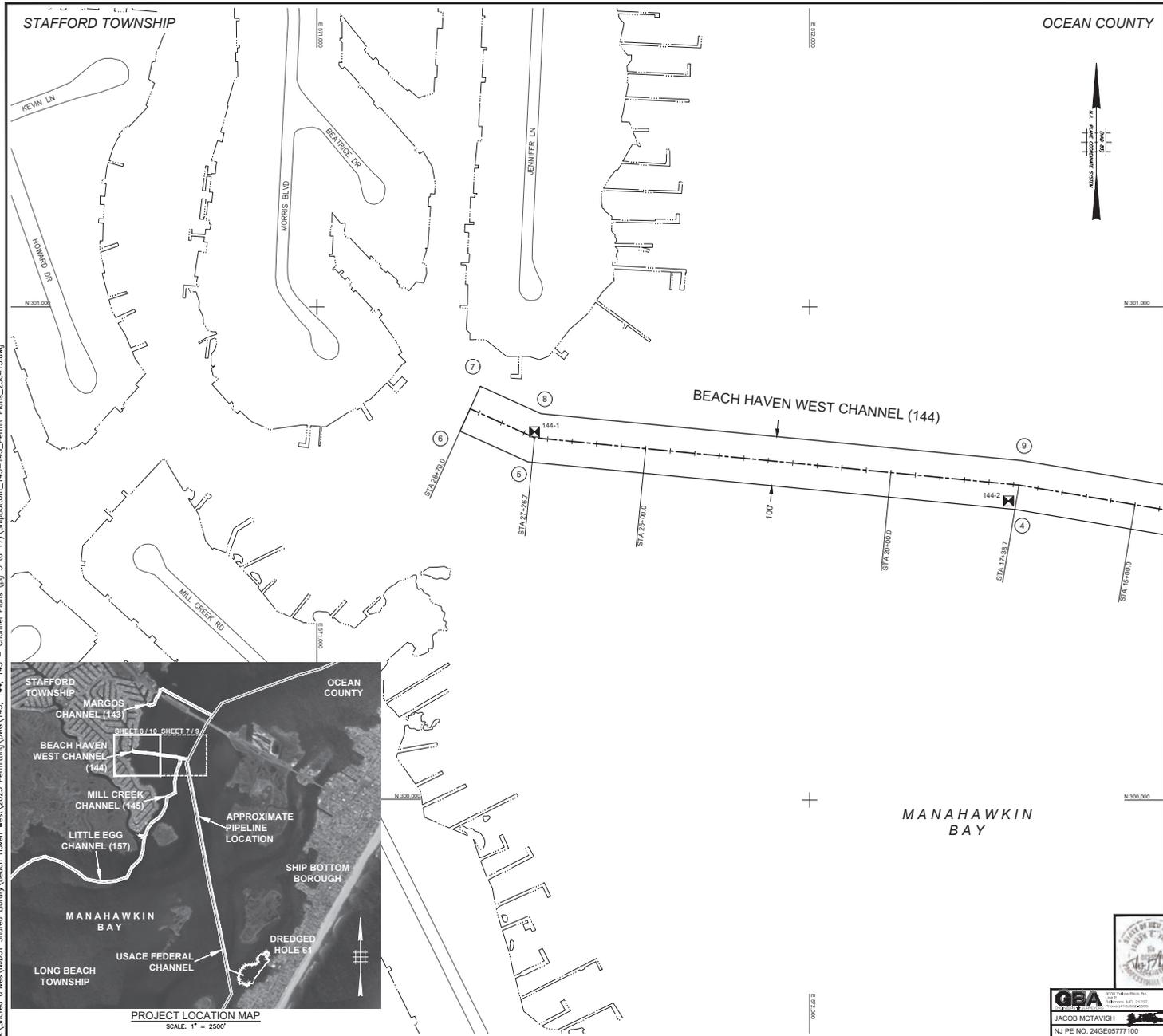
TITLE: BEACH HAVEN WEST CHANNEL (144)  
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61 BOROUGH OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

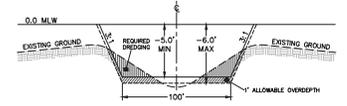
 G&A GEOTECHNICAL & ASSOCIATES, INC. 1000 ROUTE 100 SUITE 200 FREEHOLD, NJ 07728 TEL: 732-329-1000 FAX: 732-329-1001 WWW.GEOTECHNICAL-AND-ASSOCIATES.COM	DRAWN BY: RRP CHECKED BY: JAM SCALE: AS SHOWN DATE: OCT 2025	WSP USA, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800 JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05650600	PROJECT NO. SHEET 7 OF 35 DWG. NO. PERMIT - 08
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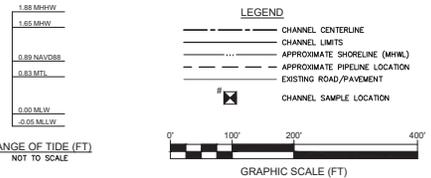


MATCHLINE - SEE SHEET 7



TYPICAL SECTION: BEACH HAVEN WEST CHANNEL (144) STA 0+00.0 TO 28+70.0  
NOT TO SCALE

- NOTES:**
1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.89 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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  3. EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.



PROJECT LOCATION MAP  
SCALE: 1" = 2500'



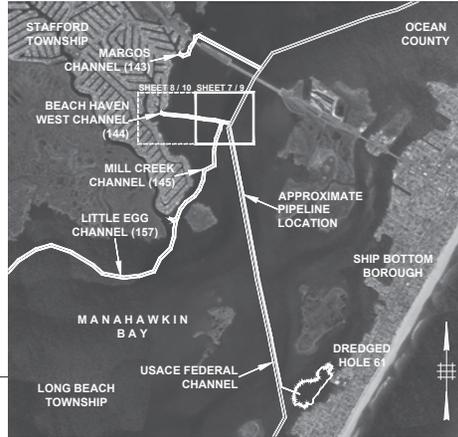
BY		APPR		DATE		NO.		PROJECT	
DESCRIPTION		DATE		NO.		PROJECT		SHEET 8 OF 35	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES									
TITLE: BEACH HAVEN WEST CHANNEL (144) CHANNEL ARRANGEMENT & GEOMETRY PLAN									
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY									
DRAWN BY: RRP		WSP USA INC.		CERTIFICATION OF AUTHORIZATION		PROJECT NO.		NO.	
CHECKED BY: JAM		NO. 24GA28028600		JOSEPH C. TISBANI		NO. 24GA28028600		SHEET 8 OF 35	
SCALE: AS SHOWN		NEW JERSEY PROFESSIONAL ENGINEER		DATE: OCT 2025		NO. 24GE05650600		DWG. NO. PERMIT - 07	

**G&A**  
 JACOB MCTAVISH  
 NJ PE NO. 24GE05777100

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STAFFORD  
TOWNSHIP

OCEAN  
COUNTY



PROJECT LOCATION MAP  
SCALE: 1" = 2500'

CHANNEL VOLUMES BASED ON DECEMBER 3, 2019  
CONDITIONAL SURVEY DATA

BEACH HAVEN WEST CHANNEL (144)	
TEMPLATE (+5 MLW)	0+00.0 to 28+70.0
OVERDEPTH (+5 MLW)	3.452
TOTAL (CU)	10,179
	19,620

NOTES

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.89 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (COND) SOUNDING DATA SHOWN WAS COLLECTED ON DECEMBER 3, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1.88 MHW	CHANEL CENTERLINE
1.65 MHW	CHANEL LIMITS
0.89 NAVD88	APPROXIMATE SHORELINE (MHW)
0.83 MTL	APPROXIMATE PIPELINE LOCATION
0.00 MLW	EXISTING ROAD/PAVEMENT
-0.05 MLW	CHANEL SAMPLE LOCATION
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -5 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

0' 100' 200' 400'  
GRAPHIC SCALE (FT)

MATCHLINE - SEE SHEET 10

N 301,000

N 301,000

N 300,000

N 300,000

N 300,000

BEACH HAVEN WEST CHANNEL (144)

USACE FEDERAL CHANNEL

MANAHAWKIN  
BAY

MILL CREEK CHANNEL (145)

APPROXIMATE  
PIPELINE ROUTE



JACOB MCTAVISH  
NJ PE NO. 24GE05777100

REV. DATE  
BY  
DESCRIPTION

DRAWN BY: RRP  
CHECKED BY: JAM  
SCALE: AS SHOWN  
DATE: OCT 2025

WSP USA, INC.  
CERTIFICATION OF AUTHORIZATION  
NO. 24GA28028800  
JOSEPH C. FISHER  
NEW JERSEY PROFESSIONAL ENGINEER  
NO. 24GE05650600

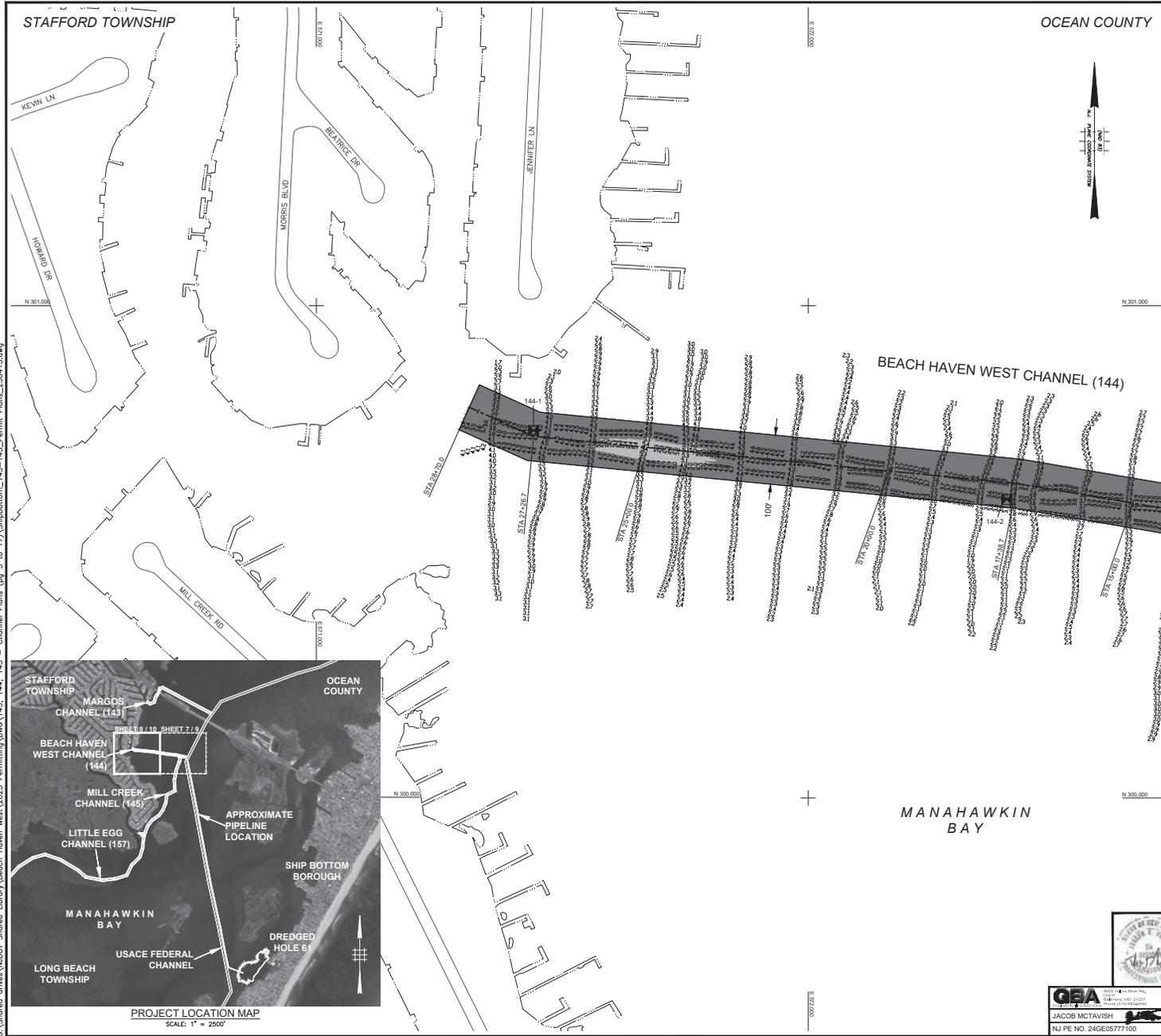
PROJECT NO.  
SHEET 9 OF 35  
DWG. NO. PERMIT - 08

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BEACH HAVEN WEST CHANNEL (144)  
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

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OCEAN COUNTY



MATCHLINE - SEE SHEET 9

CHANNEL VOLUMES BASED ON DECEMBER 3, 2019  
CONDITIONAL SURVEY DATA

BEACH HAVEN WEST CHANNEL (144)	
TEMPLATE (± MLW)	0+00.0 to 29+70.0
OVERDEPTH (± MLW)	10.175
TOTAL (CY)	19,620

**NOTES**

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.80 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
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- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- - - - - APPROXIMATE SHORELINE (MHW)
- - - - - APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- ⊠ CHANNEL SAMPLE LOCATION
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)



PROJECT LOCATION MAP  
SCALE: 1" = 2500'

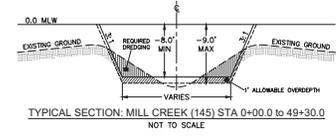
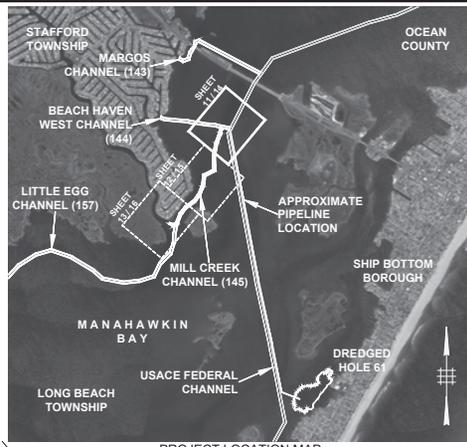
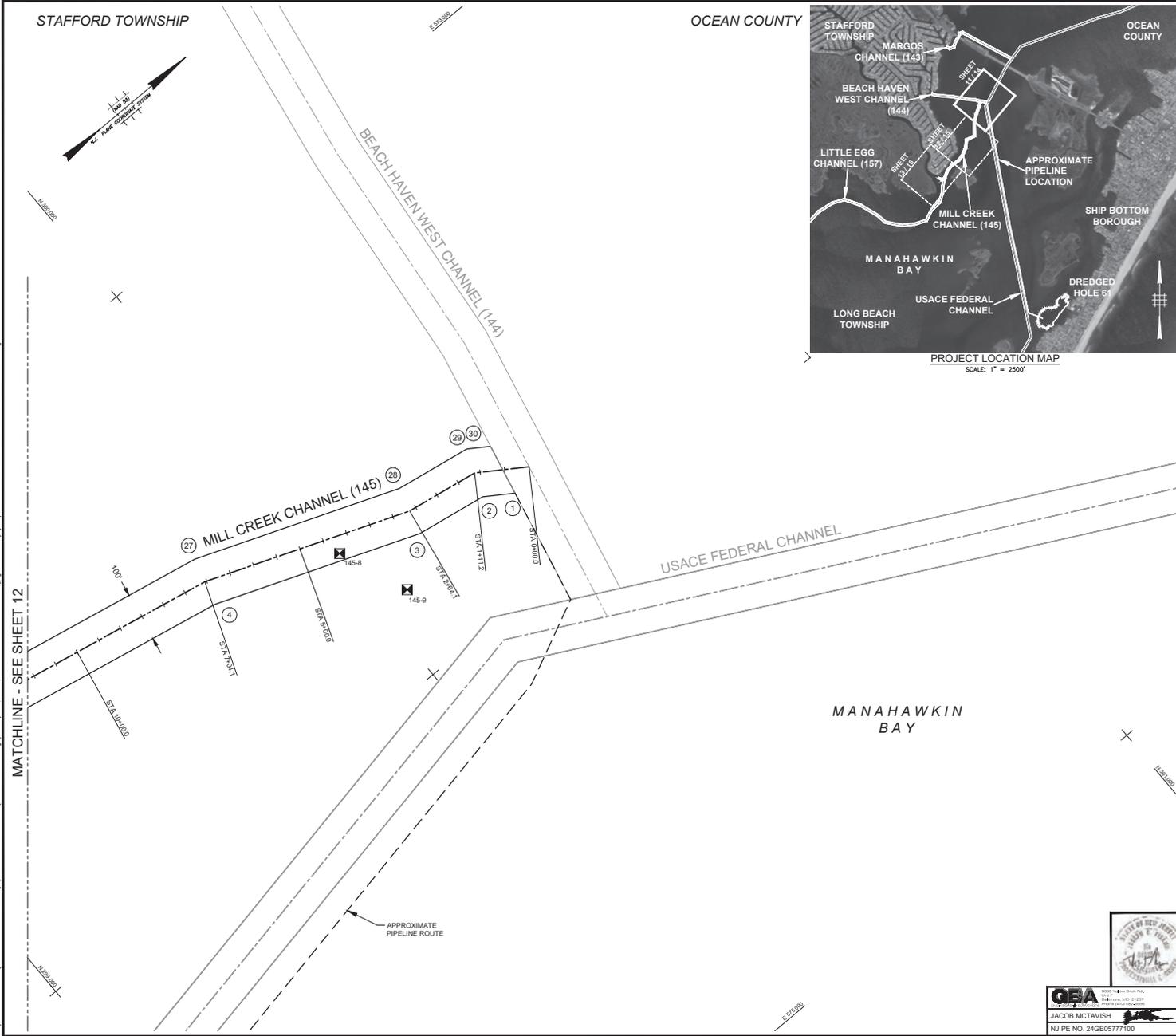


BY: JAM/RRP		DATE: OCT 2025	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES			
TITLE: BEACH HAVEN WEST CHANNEL (144) CHANNEL BATHYMETRY PLAN			
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY			
DRAWN BY: RRP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.	
CHECKED BY: JAM	JOSEPH C. FISARY NEW JERSEY PROFESSIONAL ENGINEER	SHEET 10 OF 35	
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 09	

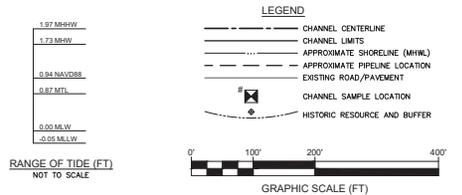
**GBA**  
GAHAGAN & BRYANT ASSOCIATES, INC.  
1400 ROUTE 138  
MANTOLoking, NJ 08859  
TEL: 908.227.1000  
WWW.GBA-INC.COM

JACOB MCTAVISH  
NJ PE NO. 24GE05777100

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- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.94 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.



BY		APPR							
DESCRIPTION									
DATE									

**STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: MILL CREEK CHANNEL (145)  
CHANNEL ARRANGEMENT & GEOMETRY PLAN**

**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.	
CHECKED BY: JAM	JOSEPH C. FISARNY NEW JERSEY PROFESSIONAL ENGINEER	SHEET 11 OF 35	
SCALE: AS SHOWN	NO. 24GE05650600	DWG. NO. PERMIT -10	
DATE: OCT 2025			

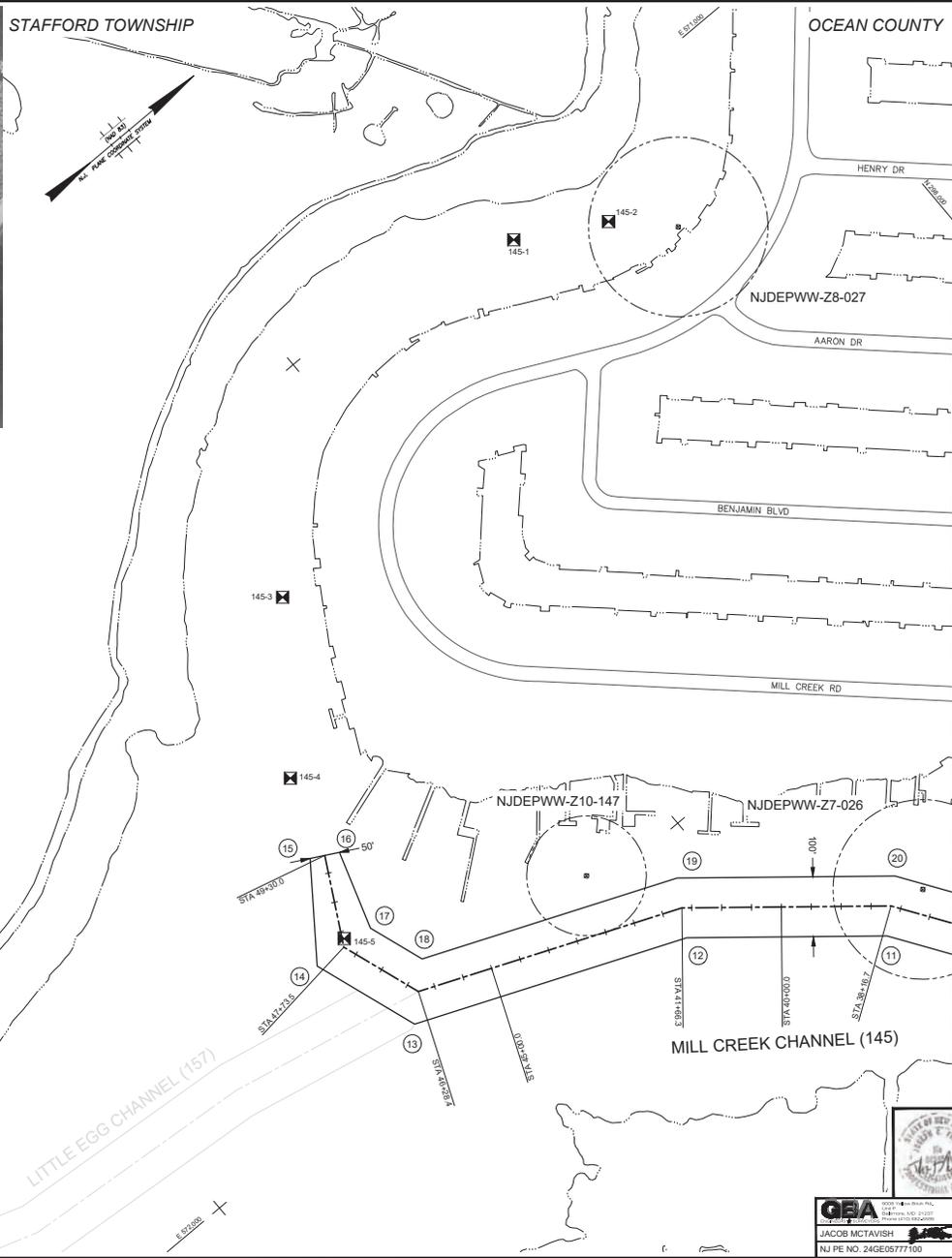
**G&A**  
Geotechnical & Assessment  
INCORPORATED  
1400 ROUTE 138  
MANTOLoking, NJ 08859  
TEL: 908.227.1000  
WWW.GANDASSOCIATES.COM

JACOB MCTAVISH  
NJ PE NO. 24GE05777100

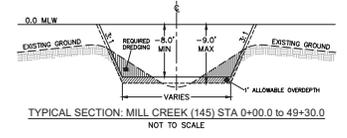
MATCHLINE - SEE SHEET 12



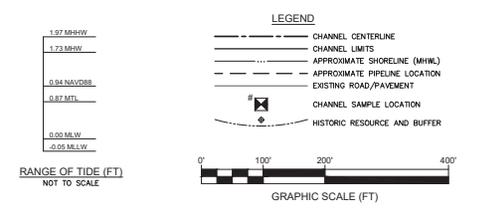
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MATCHLINE - SEE SHEET 12



- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.94 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

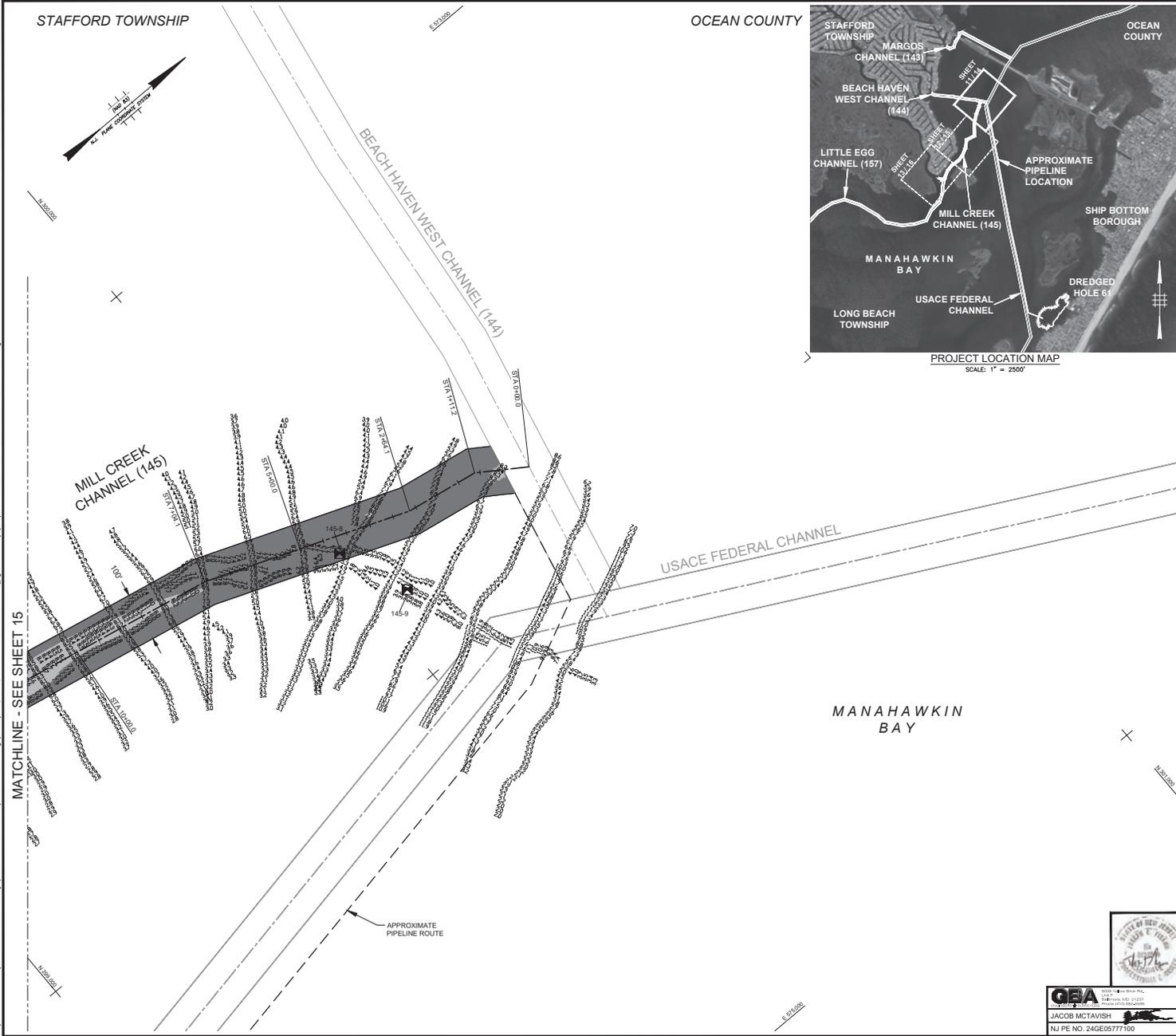


BY: JAP/R		DATE:		<b>STATE OF NEW JERSEY</b> <b>NJDOT OFFICE OF MARITIME RESOURCES</b>	
DESCRIPTION:		PROJECT NO.:			
<b>TITLE: MILL CREEK CHANNEL (145)</b> <b>CHANNEL ARRANGEMENT &amp; GEOMETRY PLAN</b>				PROJECT NO. 24GA28028800 SHEET 13 OF 35	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY					
DRAWN BY: RRP		WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800		PROJECT NO.:	
CHECKED BY: JAM		JOSEPH C. FISARNY		SHEET 13 OF 35	
SCALE: AS SHOWN		NEW JERSEY PROFESSIONAL ENGINEER		DWG. NO. PERMIT -12	
DATE: OCT 2025		NO. 24GE05650600			

**G&A**  
 JACOB MCTAVISH  
 NJ PE NO. 24GE05777100



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CHANNEL VOLUMES BASED ON DECEMBER 3, 2019  
CONDITIONAL SURVEY DATA

MILL CREEK CHANNEL (145)	
TEMPLATE (+8 MLW)	0+00.0 to 49+30.0
OVERDEPTH (+8 MLW)	13,990
TOTAL (CY)	23,030

**NOTES**

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.84 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON DECEMBER 3, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
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- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (MHWL)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -8 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -9 & -8 MLW)

1.97 MHW	1.97 MHW
1.73 MHW	1.73 MHW
0.94 NAVD88	0.94 NAVD88
0.87 MLW	0.87 MLW
0.00 MLW	0.00 MLW
-0.05 MLW	-0.05 MLW

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MILL CREEK CHANNEL (145) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: JAM	JOSEPH C. FISARNY
SCALE: AS SHOWN	NEW JERSEY PROFESSIONAL ENGINEER
DATE: OCT 2025	NO. 24GE05650600
PROJECT NO.	SHEET 14 OF 35
DWG. NO. PERMIT -13	

**GBA**  
GAHAGAN & BRYANT ASSOCIATES, INC.  
1400 ROUTE 138 SOUTH  
FREEHOLD, NJ 07728  
TEL: 732-799-0000  
WWW.GBA-INC.COM

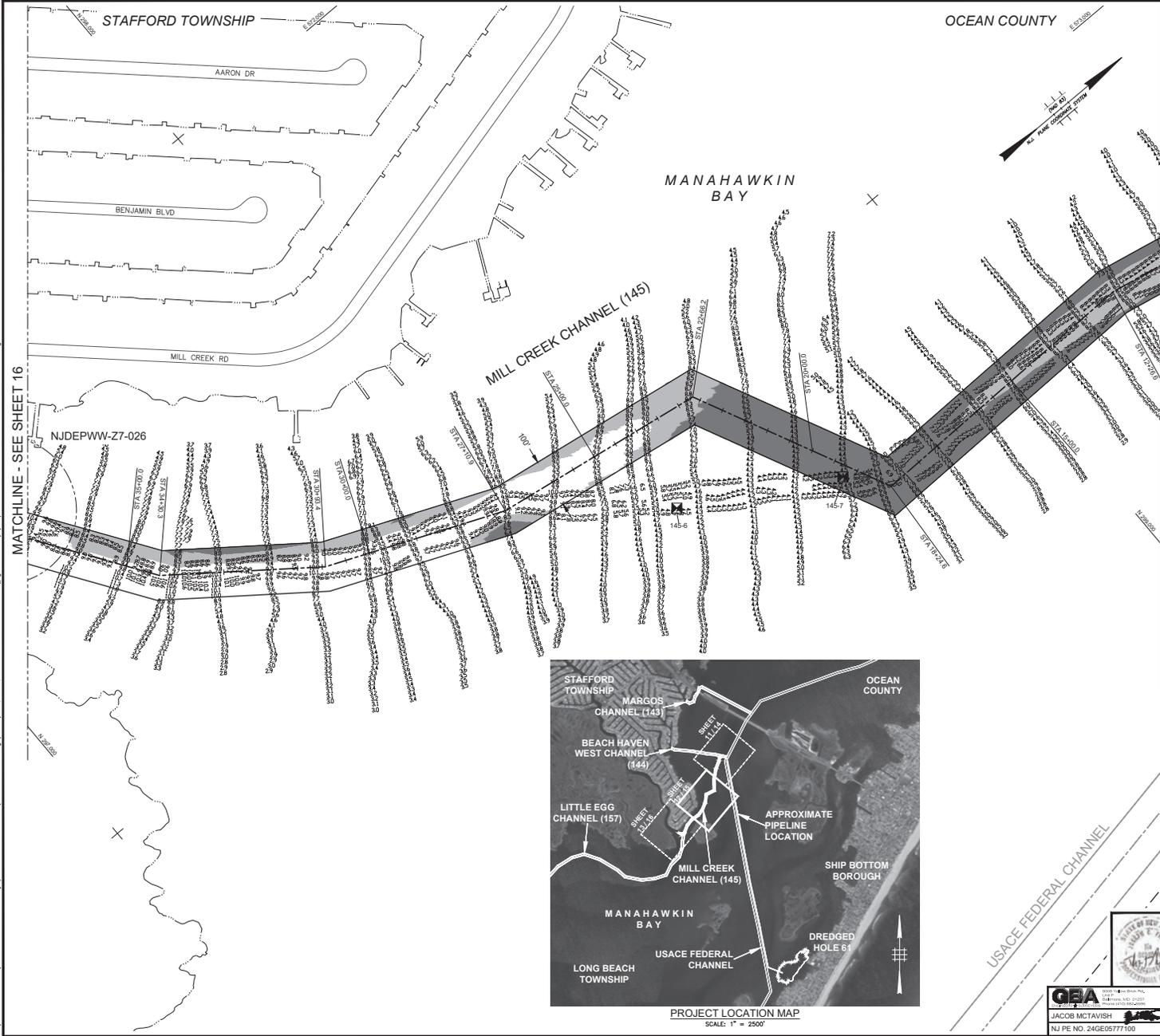
JACOB MCTAVISH  
NJ PE NO. 24GE05777100

MATCHLINE - SEE SHEET 15

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MATCHLINE - SEE SHEET 16

MATCHLINE - SEE SHEET 14



CHANNEL VOLUMES BASED ON DECEMBER 3, 2019  
CONDITIONAL SURVEY DATA

MILL CREEK CHANNEL (145)	
TEMPLATE (+8 MLW)	0+00.0 to 49+30.0
OVERDEPTH (+8 MLW)	10,940
TOTAL (CY)	23,030

**NOTES**

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.84 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (MHWL)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +8 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +9 & +8 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

1.97 MHW
1.73 MHW
0.84 NAVD88
0.87 MLLW
0.00 MLW
-0.05 MLW

0' 100' 200' 400'  
GRAPHIC SCALE (FT)



PROJECT LOCATION MAP  
SCALE: 1" = 2500'

**GBA**  
GAHAGAN & BRYANT ASSOCIATES  
INCORPORATED  
1400 ROUTE 100  
MANTOLoking, NJ 08530  
TEL: 609.399.8800  
WWW.GBA-NJ.COM



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MILL CREEK CHANNEL (145) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE B1, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800
CHECKED BY: JAM	JOSEPH C. FISKARY NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0565000
SCALE: AS SHOWN	PROJECT NO. 24GE0565000
DATE: OCT 2025	SHEET 15 OF 35 DWG. NO. PERMIT-14

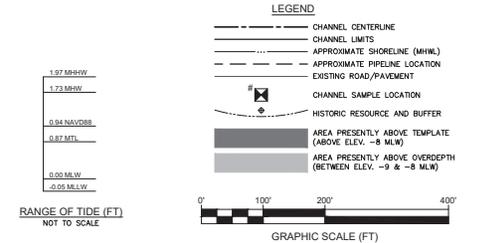
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CHANNEL VOLUMES BASED ON DECEMBER 3, 2019  
CONDITIONAL SURVEY DATA

MILL CREEK CHANNEL (145)	
TEMPLATE (± MLW)	0+00.0 to 49+30.0
OVERDEPTH (± MLW)	10,940
TOTAL (CY)	23,030

- NOTES**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.84 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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  - CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON DECEMBER 3, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
  - THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.



**STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: MILL CREEK CHANNEL (145)  
CHANNEL BATHYMETRY PLAN**

**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE #1 BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28028800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISARNY NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05650600	SHEET 16 OF 35
SCALE: AS SHOWN		DWG. NO. PERMIT -15
DATE: OCT 2025		

**GBA**  
GEOGRAPHIC BATHYMETRY ASSOCIATES  
1000 ROUTE 100  
MANTOLoking, NJ 08859  
TEL: 908.240.1000  
WWW.GBA-NJ.COM

JACOB MCTAVISH  
NJ PE NO. 24GE05777100



REV.	DATE	DESCRIPTION

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MARGOS CHANNEL (143) CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	302,565.9	575,361.3
28+44.2	303,507.6	572,853.4
29+84.2	303,867.0	572,712.2
31+59.6	303,665.3	572,677.4
32+59.6	303,609.9	572,625.3
34+65.0	303,442.3	572,506.6
37+00.4	303,160.3	572,418.6
39+06.2	303,086.4	572,205.2
41+00.0	303,180.9	572,059.4

MARGOS CHANNEL (143) COORDINATES		
POINT	NORTHING	EASTING
1	302,549.0	575,286.7
2	303,853.1	572,849.4
3	303,819.3	572,755.3
4	303,782.5	572,747.3
5	303,683.0	572,708.0
6	303,592.0	572,652.4
7	303,499.4	572,608.3
8	303,419.9	572,552.0
9	303,121.3	572,458.8
10	303,031.2	572,198.5
11	303,139.0	572,032.2
12	303,222.9	572,086.6
13	303,141.7	572,211.9
14	303,199.3	572,378.4
15	303,464.7	572,461.2
16	303,567.2	572,526.7
17	303,627.8	572,598.1
18	303,707.5	572,646.8
19	303,803.6	572,649.6
20	303,894.6	572,669.2
21	303,962.2	572,667.4
22	302,830.4	575,346.7

MARGOS CHANNEL (143) SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
143-1	303,026.5	572,103.2
143-2	303,124.7	572,293.7
143-3	303,806.4	573,014.0
143-4	303,680.1	573,413.9
143-5	303,444.9	573,721.1
143-6	303,116.9	574,355.8

MILL CREEK CHANNEL (145) CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	300,420.4	573,802.7
1+11.2	300,327.7	573,741.2
2+64.1	300,176.9	573,715.5
7+04.1	299,766.1	573,558.1
12+26.6	299,253.5	573,457.1
18+24.6	298,655.6	573,470.0
22+66.2	298,463.6	573,072.3
27+10.9	298,023.9	573,004.7
30+93.4	297,671.2	572,857.0
34+30.3	297,402.1	572,654.4
38+16.7	297,184.3	572,335.2
41+06.3	296,914.5	572,112.9
46+28.4	296,487.2	571,936.8
47+73.5	296,439.4	571,799.8
49+30.0	296,513.5	571,662.0

MILL CREEK CHANNEL (145) COORDINATES		
POINT	NORTHING	EASTING
1	300,364.2	573,825.4
2	300,308.9	573,788.7
3	300,163.7	573,763.9
4	299,752.3	573,606.3
5	299,249.2	573,507.2
6	298,624.6	573,520.7
7	298,430.0	573,117.8
8	298,010.3	573,053.2
9	297,646.1	572,900.7
10	297,365.4	572,689.4
11	297,147.0	572,369.2
12	296,888.5	572,156.3
13	296,487.4	571,974.4
14	296,384.9	571,795.5
15	296,491.5	571,650.1
16	296,535.5	571,673.8
17	296,493.8	571,804.1
18	296,527.0	571,899.1
19	296,540.5	572,009.6
20	297,221.6	572,301.1
21	297,438.7	572,619.4
22	297,696.2	572,813.3
23	298,037.6	572,995.2
24	298,497.2	573,050.9
25	298,686.7	573,419.3
26	299,257.8	573,407.0
27	299,780.0	573,509.9
28	300,190.2	573,667.0
29	300,346.5	573,663.6
30	300,387.2	573,720.6

MILL CREEK CHANNEL (145) SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
145-1	297,416.5	573,071.3
145-2	297,557.5	571,155.9
145-3	296,736.7	571,286.3
145-4	296,552.3	571,526.3
145-5	296,449.0	571,789.4
145-6	298,293.8	573,234.2
145-7	298,592.7	573,392.5
145-8	300,012.7	573,690.3
145-9	300,070.6	573,834.5

MILL CREEK CHANNEL (145) HISTORIC RESOURCE COORDINATES			
POINT	NORTHING	EASTING	BUFFER RADIUS
NJDEPWW-27-026	297,242.8	572,348.1	100
NJDEPWW-28-027	297,641.0	571,237.5	100
NJDEPWW-210-147	296,626.7	571,969.3	100

BEACH HAVEN WEST CHANNEL (144) CENTERLINE COORDINATES		
STATION	NORTHING	EASTING
0+00.0	300,346.9	574,137.4
6+25.8	300,481.0	573,526.2
10+87.7	300,530.2	573,066.9
17+38.7	300,638.8	572,425.0
27+26.7	300,734.8	571,441.7
28+70.0	300,793.7	571,311.0

BEACH HAVEN WEST CHANNEL (144) COORDINATES		
POINT	NORTHING	EASTING
1	300,312.0	574,063.1
2	300,431.6	573,518.1
3	300,480.6	573,060.1
4	300,589.2	572,418.4
5	300,685.9	571,428.6
6	300,748.2	571,290.5
7	300,839.3	571,331.6
8	300,783.8	571,454.7
9	300,688.4	572,431.7
10	300,579.7	573,073.7
11	300,530.5	573,534.2
12	300,404.0	574,110.6

BEACH HAVEN WEST CHANNEL (144) SAMPLE LOCATION COORDINATES		
BORING	NORTHING	EASTING
144-1	300,746.8	571,441.8
144-2	300,606.5	572,403.6
144-3	300,421.7	573,457.5

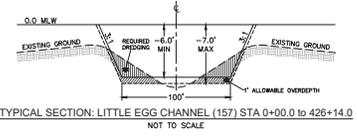
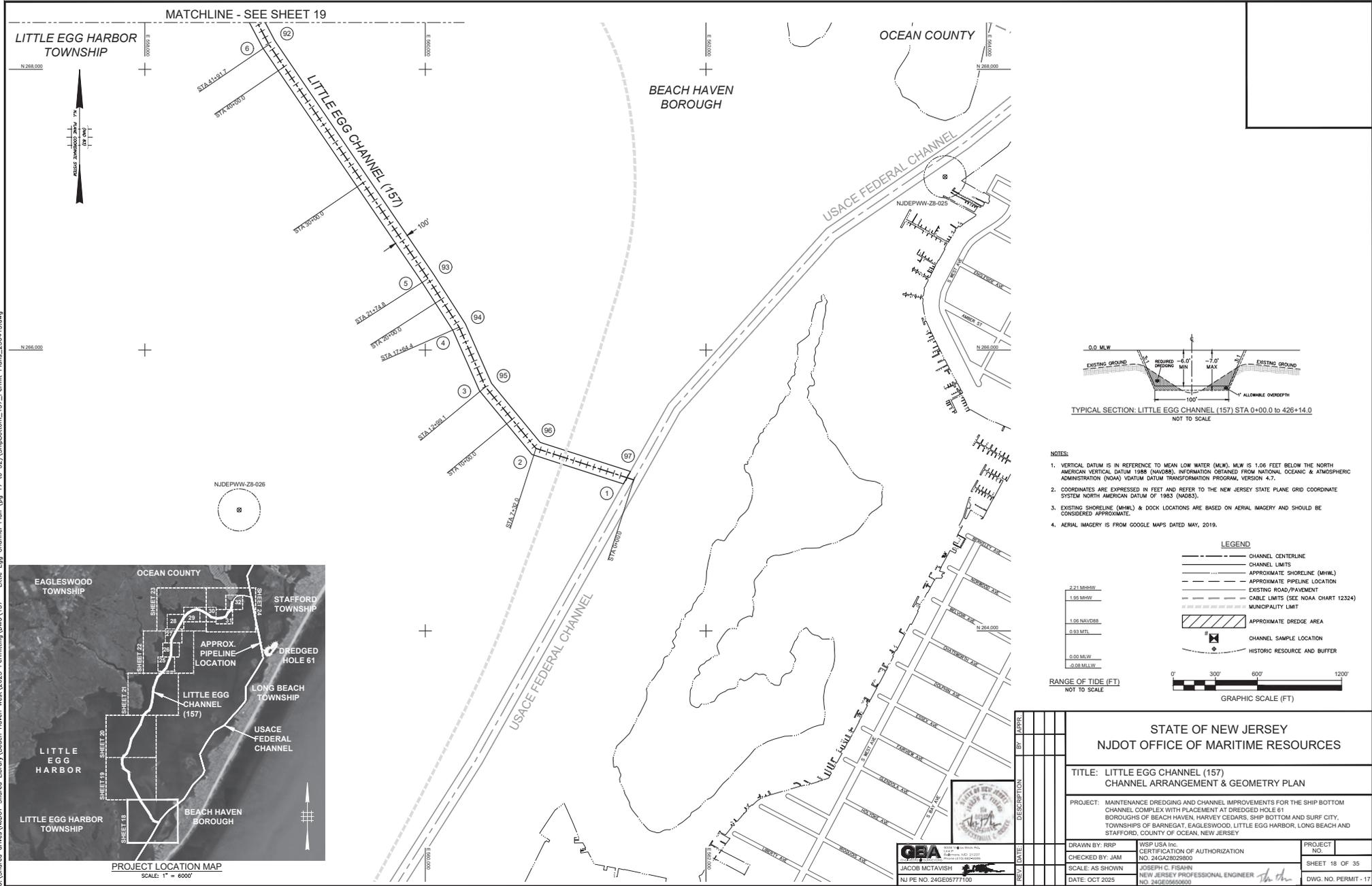
NOTES:  
1. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).

 REV. DATE DESCRIPTION BY APPR.	STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
	TITLE: CHANNEL 143-145 GEOMETRY AND SAMPLING LOCATION COORDINATE TABLES	
	PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE #1 BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
	DRAWN BY: RRP CHECKED BY: JAM SCALE: AS SHOWN DATE: OCT 2025	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24G28028800 JOSEPH C. FISARU NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05650600

  
 G&A  
 GEOTECHNICAL & ANALYTICAL  
 CONSULTANTS, INC.  
 145 ROUTE 142, SUITE 200  
 FREEHOLD, NJ 07728  
 TEL: 732-329-1100  
 FAX: 732-329-1101  
 WWW.GEOTECHNICALANALYTICAL.COM

JACOB MCTAVISH  
 NJ PE NO. 24GE05777100

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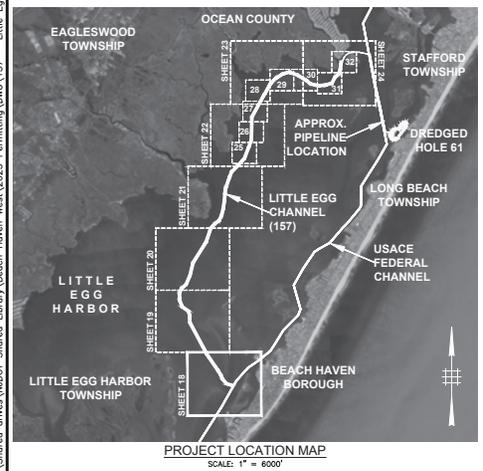
- NOTES:
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

**RANGE OF TIDE (FT)**  
NOT TO SCALE

0' 300' 600' 1200'  
GRAPHIC SCALE (FT)

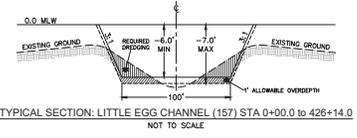
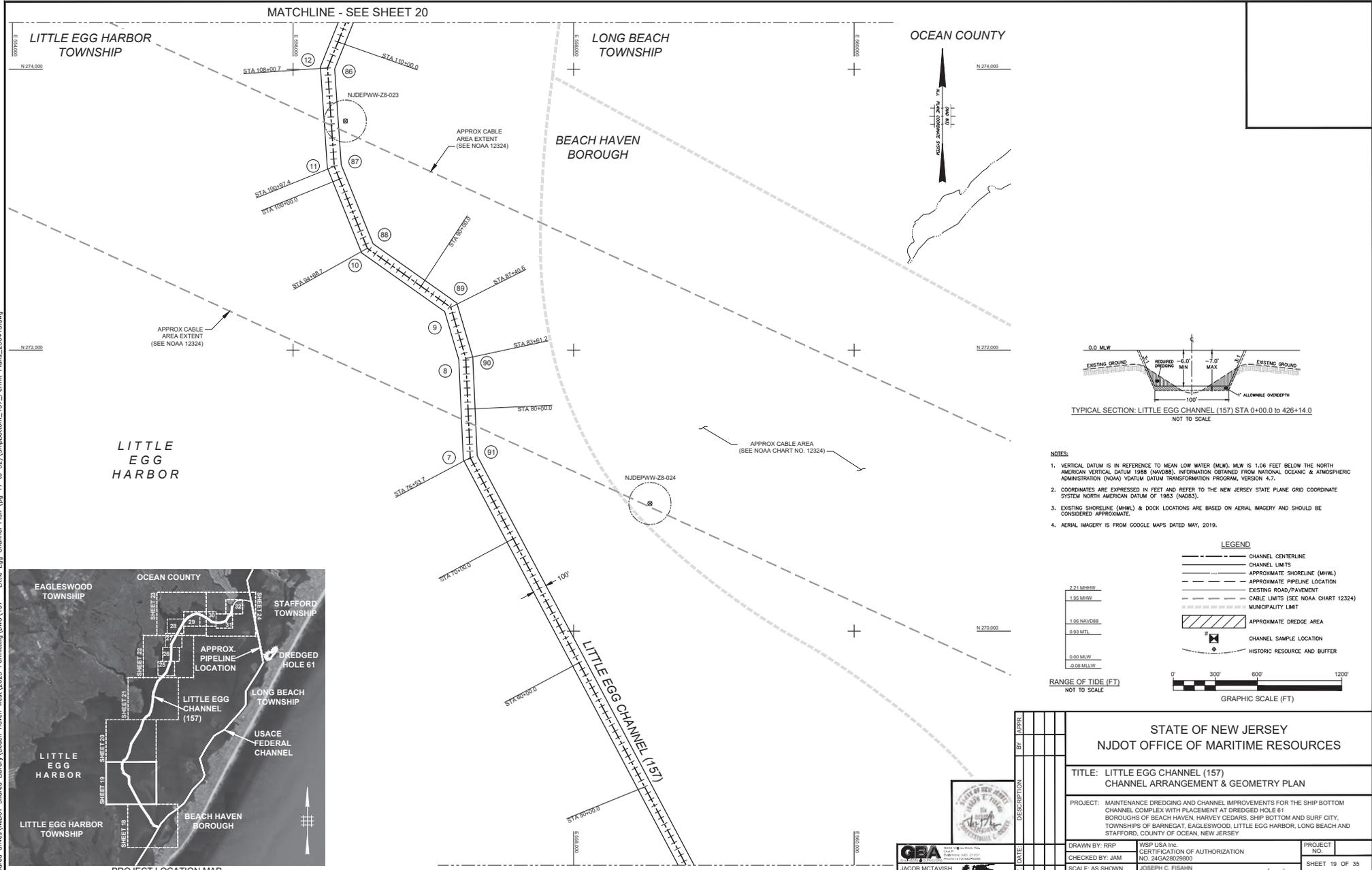


**G&B**  
JACOB MCTAVISH  
NJ PE NO. 24GE06777100



STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: LITTLE EGG CHANNEL (157) CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61 BOROUGH OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2829800
CHECKED BY: JAM	JOSEPH C. TISBANY NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE06590600
SCALE: AS SHOWN	PROJECT NO. 24GE06590600
DATE: OCT 2025	SHEET 18 OF 35 DWG. NO. PERMIT-17

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- NOTES:**
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  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

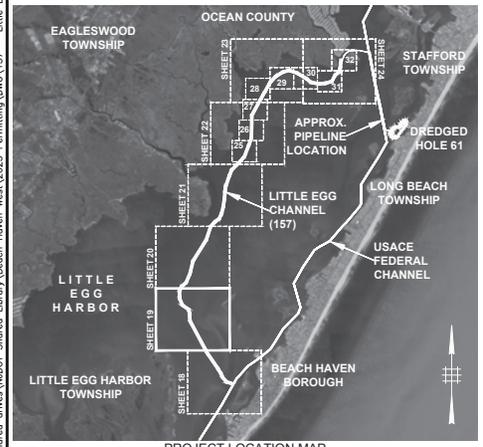
**LEGEND**

- CHANNEL CENTERLINE
- - - CHANNEL LIMITS
- ... APPROXIMATE SHORELINE (MHW/L)
- - - APPROXIMATE PIPELINE LOCATION
- - - EXISTING ROAD/PAVEMENT LOCATION
- - - CABLE LIMITS (SEE NOAA CHART 12324)
- - - MUNICIPALITY LIMIT
- [Hatched Area] APPROXIMATE DREDGE AREA
- [Circle with X] CHANNEL SAMPLE LOCATION
- [Circle with Star] HISTORIC RESOURCE AND BUFFER

**RANGE OF TIDE (FT)**

- 2.21 MHW
- 1.95 MHW
- 1.06 NAVD88
- 0.93 MTL
- 0.00 MLW
- 0.08 MLW

0' 300' 600' 1200'  
GRAPHIC SCALE (FT)  
NOT TO SCALE



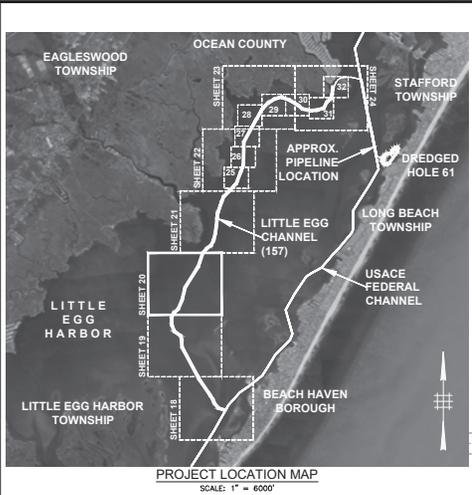
**G&B**  
Geotechnical & Biological  
Engineering & Consulting  
INCORPORATED  
1000 ROUTE 100  
SUITE 200  
MANTOLoking, NJ 08859  
TEL: 908.686.1000  
WWW.G&BINC.COM

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES		TITLE: LITTLE EGG CHANNEL (157) CHANNEL ARRANGEMENT & GEOMETRY PLAN	
		PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61 BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2829800	PROJECT NO.	SHEET 19 OF 35
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0565000	DWG. NO. PERMIT - 18	
DATE: OCT 2025	JACOB MCTAVISH NJ PE NO. 24GE0577100		

MATCHLINE - SEE SHEET 18

MATCHLINE - SEE SHEET 20

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EAGLESWOOD TOWNSHIP

OCEAN COUNTY

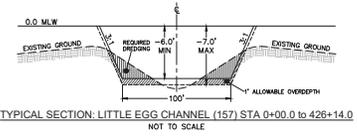
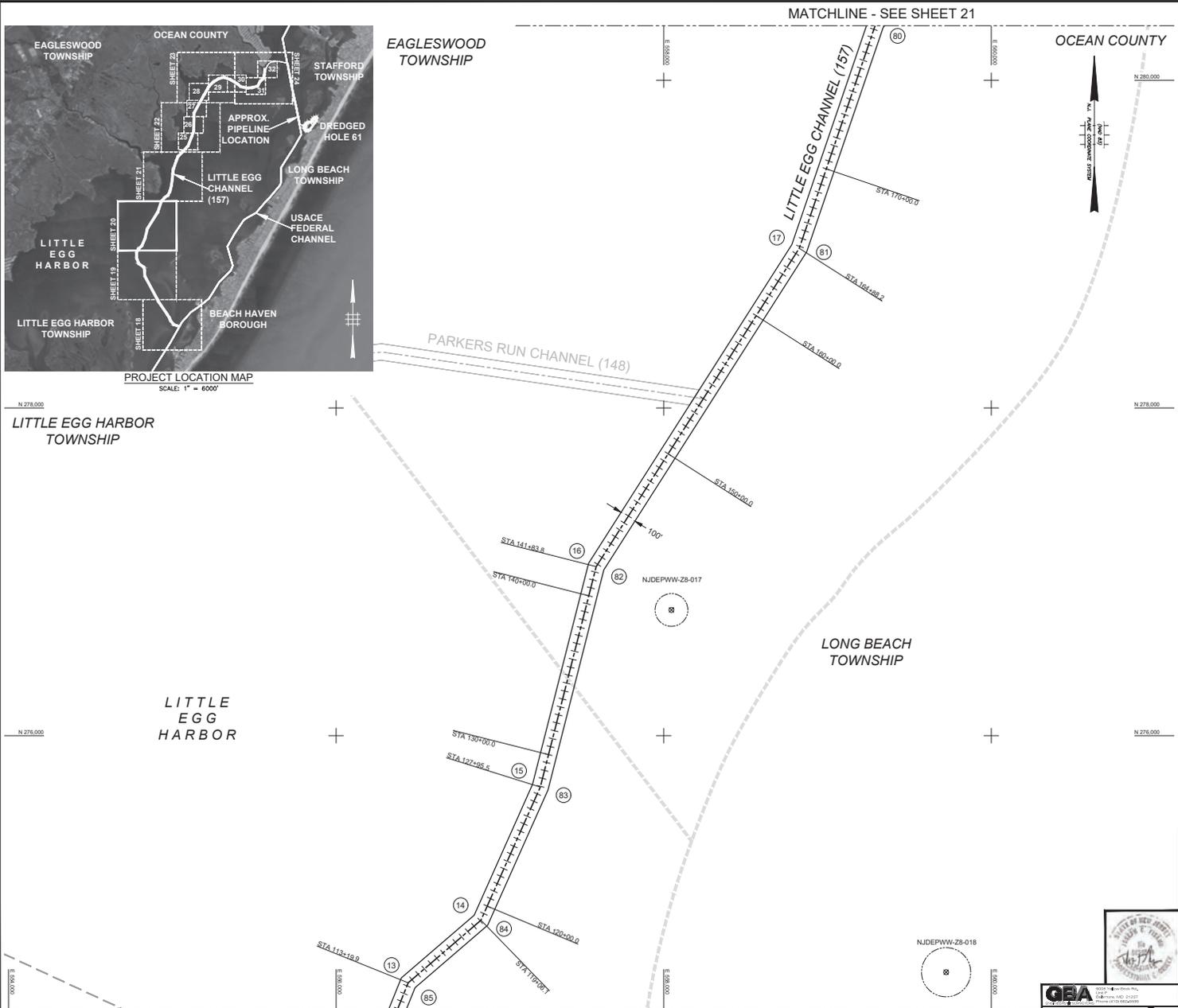
LITTLE EGG HARBOR TOWNSHIP

LONG BEACH TOWNSHIP

LITTLE EGG HARBOR

MATCHLINE - SEE SHEET 21

MATCHLINE - SEE SHEET 19

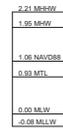


**NOTES:**

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2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

**LEGEND**

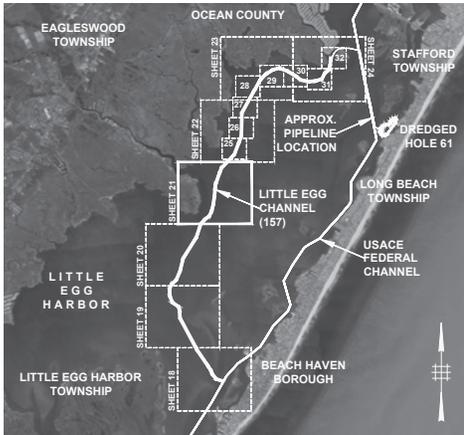
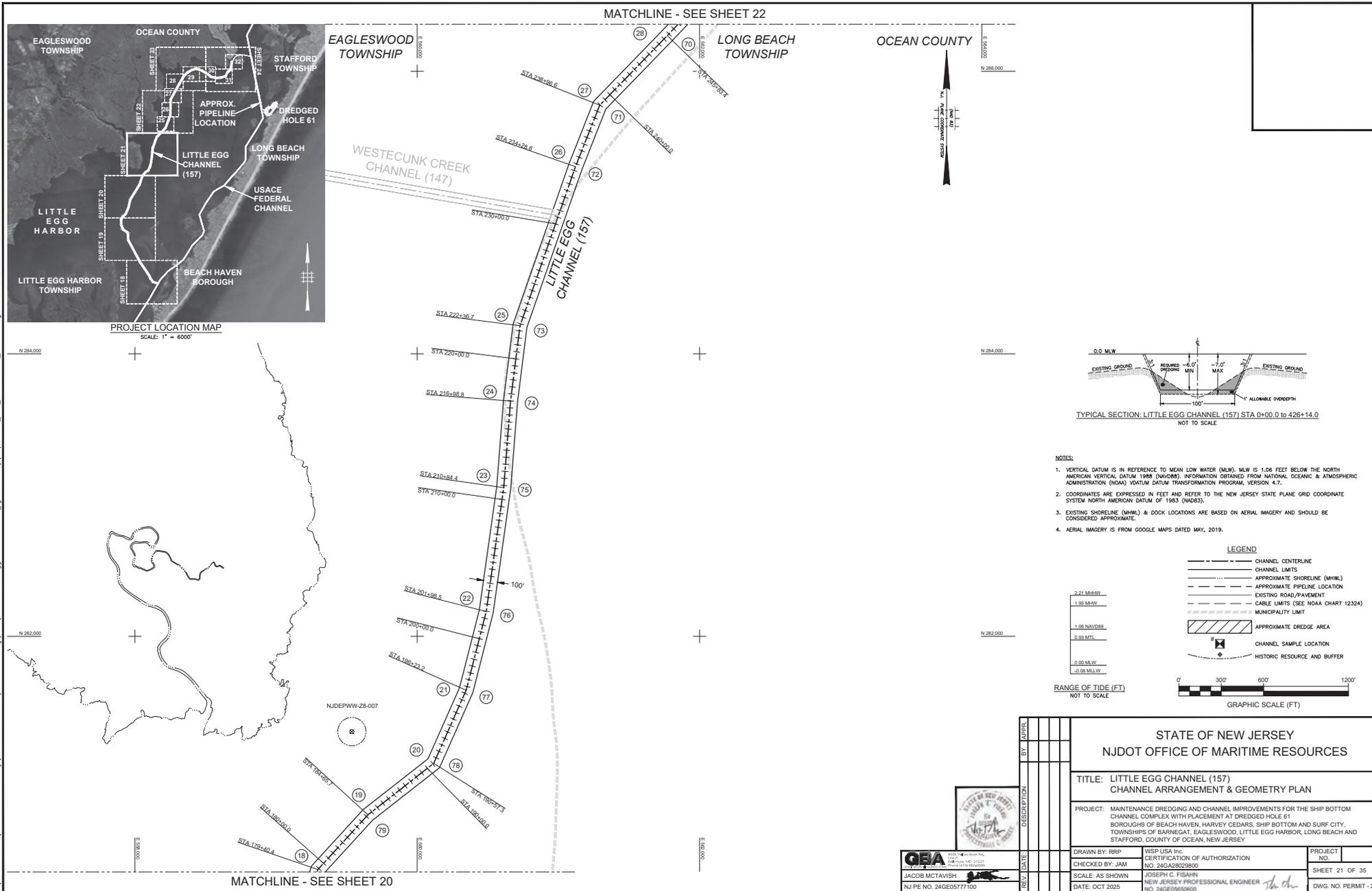
- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW/L)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER



<b>STATE OF NEW JERSEY</b>	
<b>NJDOT OFFICE OF MARITIME RESOURCES</b>	
<b>TITLE: LITTLE EGG CHANNEL (157) CHANNEL ARRANGEMENT &amp; GEOMETRY PLAN</b>	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28228800
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	NO. 24GE05650600
DATE: OCT 2025	
 <b>JACOB MCTAVISH</b> NJ PE NO. 24GE05777100	PROJECT NO. _____ SHEET 20 OF 35 DWG. NO. PERMIT -19



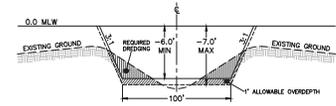
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MATCHLINE - SEE SHEET 22

MATCHLINE - SEE SHEET 20

OCEAN COUNTY



TYPICAL SECTION: LITTLE EGG CHANNEL (157) STA 0+00.0 to 426+14.0  
NOT TO SCALE

NOTES:

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- AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

LEGEND

---	CHANNEL CENTERLINE
---	CHANNEL LIMITS
---	APPROXIMATE SHORELINE (MHW)
---	APPROXIMATE PIPELINE LOCATION
---	EXISTING ROAD/PAVEMENT
---	CABLE LIMITS (SEE NOAA CHART 12324)
---	MUNICIPALITY LIMIT
---	APPROXIMATE DREDGE AREA
○	CHANNEL SAMPLE LOCATION
○	HISTORIC RESOURCE AND BUFFER

2.21 MHW	EXISTING GROUND
1.95 MHW	EXISTING GROUND
1.06 NAVD88	EXISTING GROUND
0.93 MTL	EXISTING GROUND
0.00 MLW	EXISTING GROUND
-0.08 MLW	EXISTING GROUND

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

BY		APPR.	
DESCRIPTION			
REVISION	DATE		

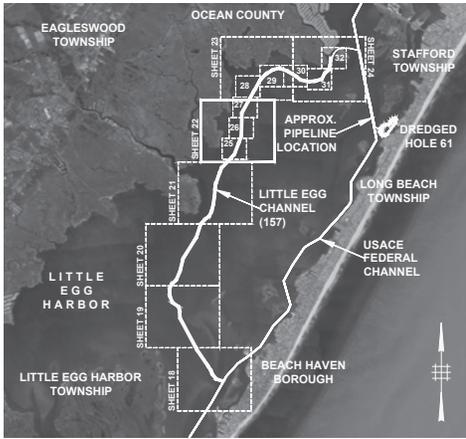
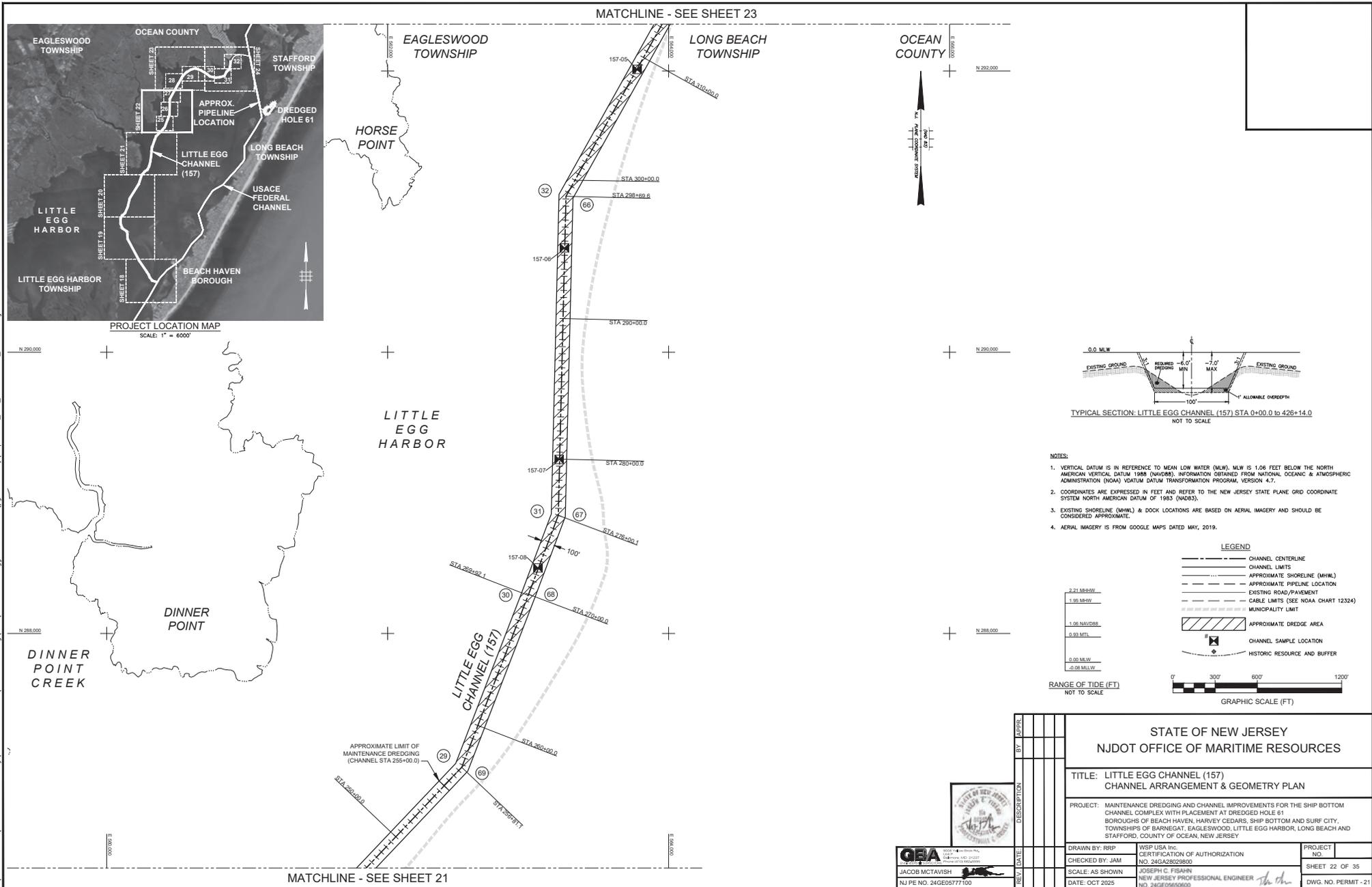
<b>STATE OF NEW JERSEY</b>	
<b>NJDOT OFFICE OF MARITIME RESOURCES</b>	
<b>TITLE: LITTLE EGG CHANNEL (157)</b>	
<b>CHANNEL ARRANGEMENT &amp; GEOMETRY PLAN</b>	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61	
BOROUGH OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc.
CHECKED BY: JAM	CERTIFICATION OF AUTHORIZATION
NO. 24GA28228800	NO. 24GA28228800
SCALE: AS SHOWN	JOSEPH C. FISHER
DATE: OCT 2025	NEW JERSEY PROFESSIONAL ENGINEER
	NO. 24GE05650600

PROJECT NO.	
SHEET 21 OF 35	
DWG. NO. PERMIT - 20	

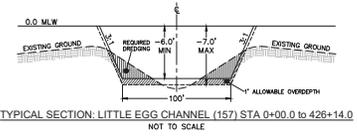
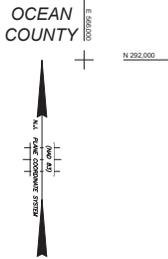
JACOB MCTAVISH  
NJ PE NO. 24GE05777100

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MATCHLINE - SEE SHEET 23

MATCHLINE - SEE SHEET 21



- NOTES:**
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  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

**RANGE OF TIDE (FT)**  
NOT TO SCALE

2.21 MSLW  
1.95 MHW  
1.06 NAVD88  
0.93 MTL  
0.00 MLW  
-0.08 MLW

0' 300' 600' 1200'  
GRAPHIC SCALE (FT)

**STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES**

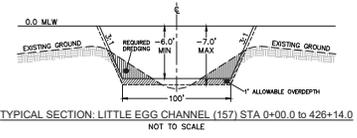
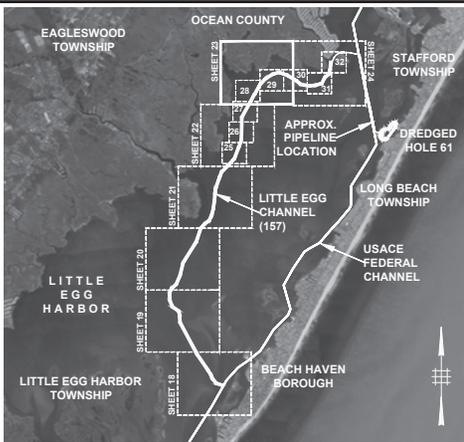
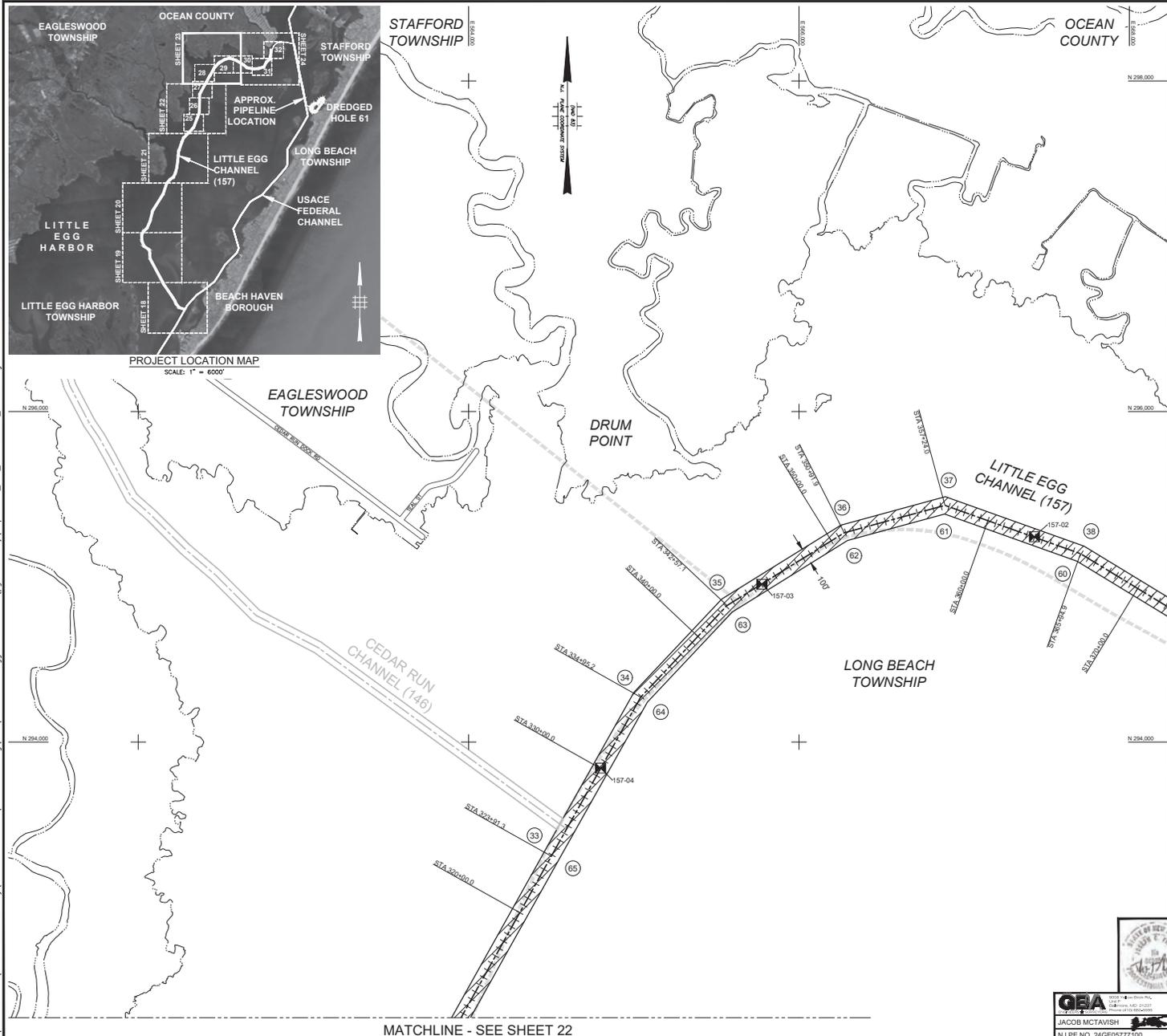
**TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL ARRANGEMENT & GEOMETRY PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28228800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER	SHEET 22 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	NO. 24GE05650600
DWG. NO. PERMIT - 21		

**G&A**  
Geotechnical & Assessment  
INCORPORATED  
1000 ROUTE 100  
SUITE 200  
MORRISTOWN, NJ 07960  
TEL: 973.261.1000  
WWW.GANDASSOCIATES.COM

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- NOTES:
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

**RANGE OF TIDE (FT)**  
NOT TO SCALE

2.21 MHW  
1.95 MHW  
1.06 NAVD88  
0.93 MTL  
0.00 MLW  
-0.08 MLW

0 300 600 1200  
GRAPHIC SCALE (FT)

BY		APPR.	
DATE			
DESCRIPTION			
PROJECT			
NO.			
SHEET 23 OF 35			
DWG. NO. PERMIT - 22			

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61  
BOROUGH OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

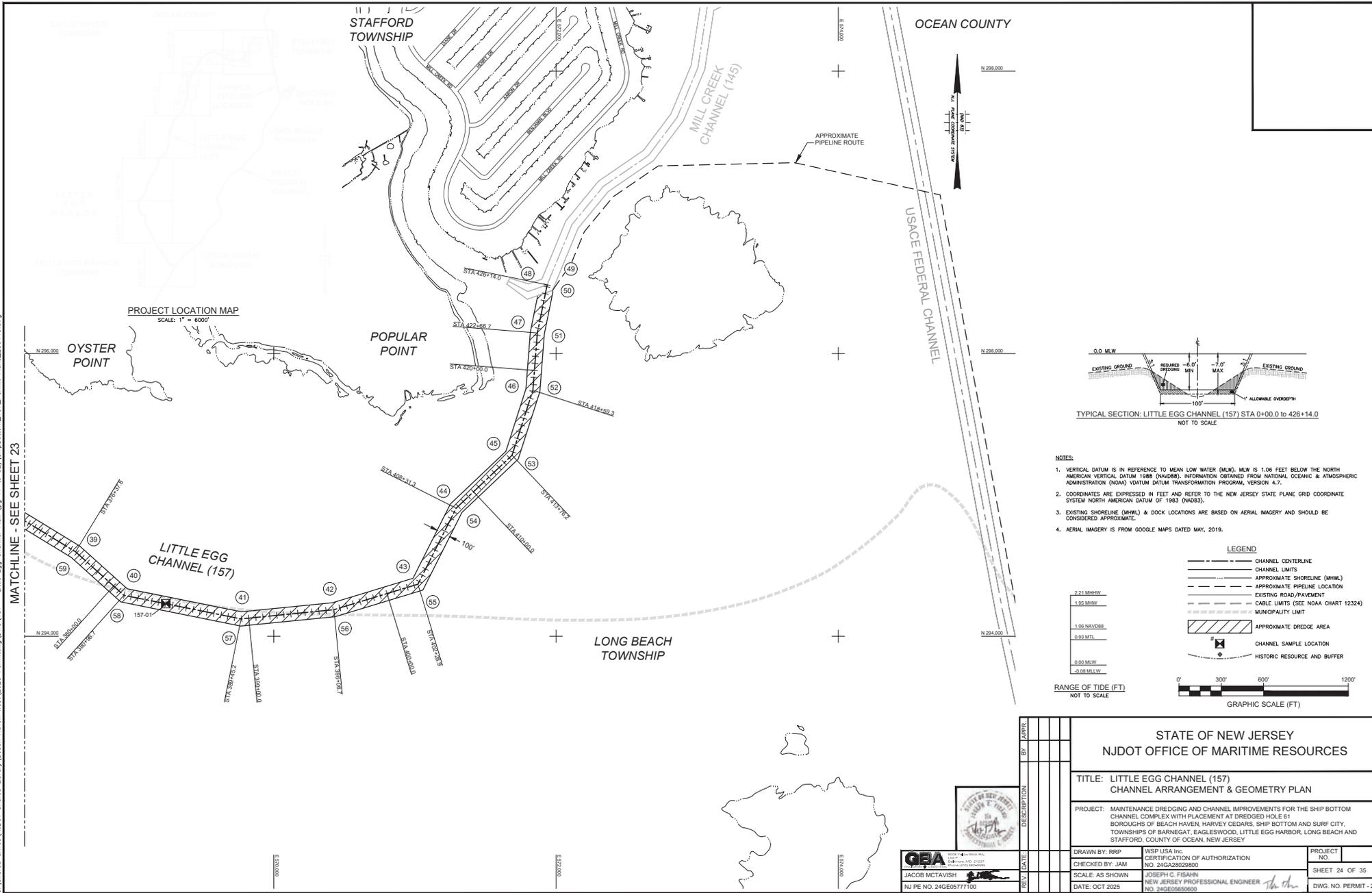
DRAWN BY: RRP	WSP USA Inc.	PROJECT NO.	
CHECKED BY: JAM	CERTIFICATION OF AUTHORIZATION	NO. 24G28228800	
SCALE: AS SHOWN	JOSEPH C. FISHER		
DATE: OCT 2025	NEW JERSEY PROFESSIONAL ENGINEER		
	NO. 24GE0565000		

MATCHLINE - SEE SHEET 22

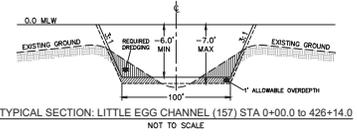
MATCHLINE - SEE SHEET 24

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MATCHLINE - SEE SHEET 23



**PROJECT LOCATION MAP**  
SCALE: 1" = 6000'



- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - EXISTING SHORELINE (MHW) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
  - AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- CABLE LIMITS (SEE NOAA CHART 12324)
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

**RANGE OF TIDE (FT)**  
NOT TO SCALE

2.21 MHW  
1.95 MHW  
1.06 NAVD88  
0.93 MTL  
0.00 MLW  
-0.08 MLW

0' 300' 600' 1200'  
GRAPHIC SCALE (FT)

**STATE OF NEW JERSEY**  
**NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: LITTLE EGG CHANNEL (157)**  
**CHANNEL ARRANGEMENT & GEOMETRY PLAN**

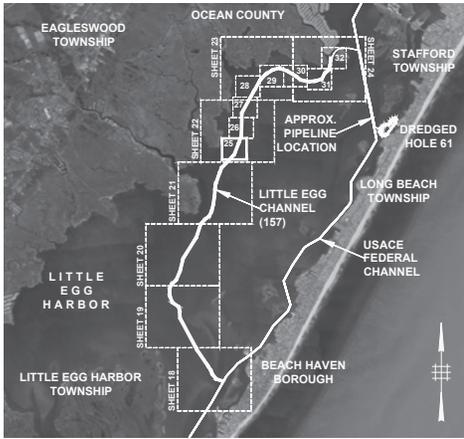
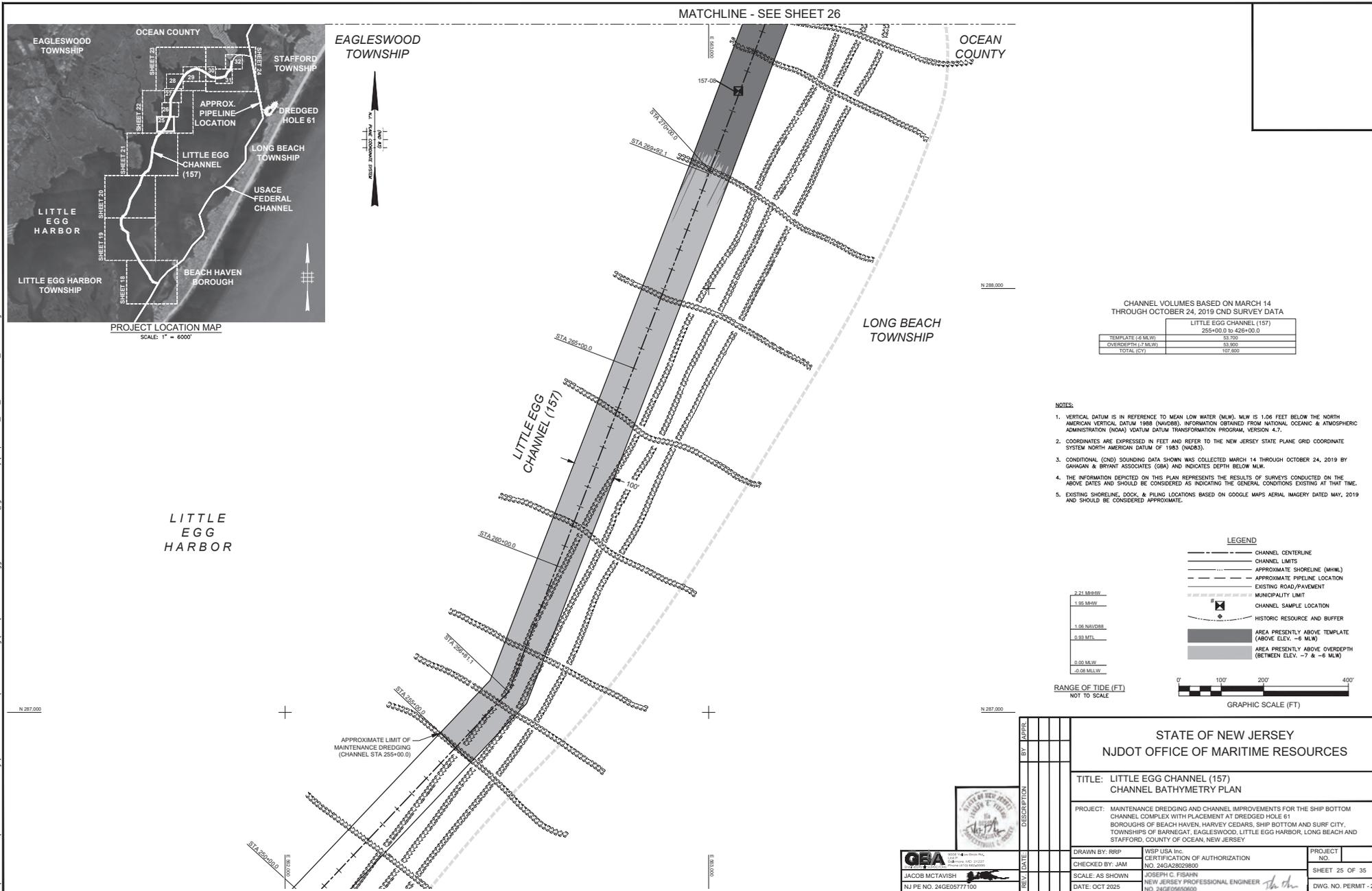
**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61 BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2829800	PROJECT NO.	
CHECKED BY: JAM	JOSEPH C. FISHERY NEW JERSEY PROFESSIONAL ENGINEER	SHEET 24 OF 35	
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 23	

**GBA**  
NEW JERSEY PROFESSIONAL ENGINEERING & ARCHITECTURE  
NO. 24GE06777100



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PROJECT LOCATION MAP  
SCALE: 1" = 5000'

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
255+00.0 to 426+00.0	
TEMPLATE (+ MLW)	63,700
OVERDEPTH (+ MLW)	63,900
TOTAL (CY)	127,600

- NOTES:
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.08 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD83). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM TRANSFORMATION PROGRAM, VERSION 4.7.
  - COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  - CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED MARCH 14 THROUGH OCTOBER 24, 2019 BY GAHGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
  - THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

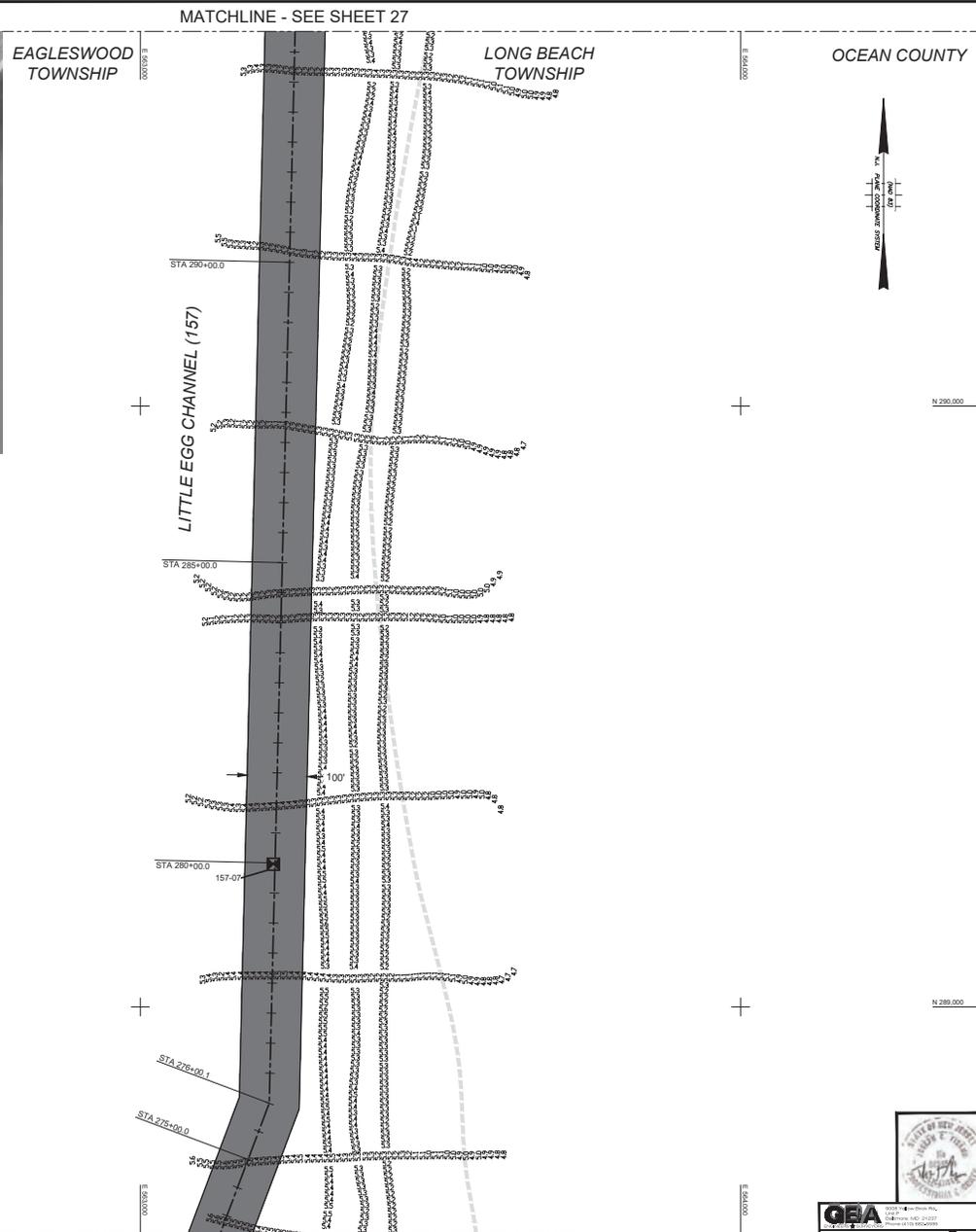
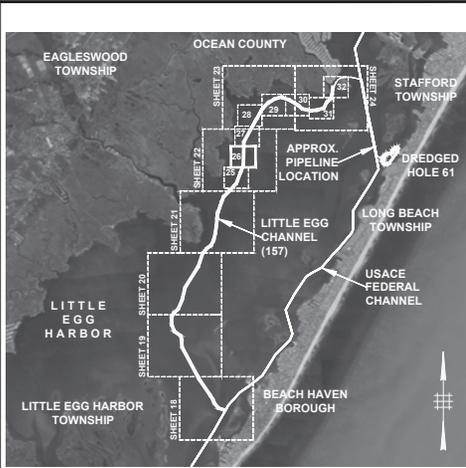
DRAWN BY: RRP	WSP USA INC. CERTIFICATION OF AUTHORIZATION NO. 24GA2823800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. TRISARY NEW JERSEY PROFESSIONAL ENGINEER	SHEET 25 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 24

**GBA**  
GAHGAN & BRYANT ASSOCIATES  
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JACOB MCTAVISH  
NJ PE NO. 24GE05777100

REV.	DATE	DESCRIPTION	BY	APPR.

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OCEAN COUNTY



N 280,000

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
255+00.0 to 426+00.0	
TEMPLATE (+ MLW)	63,700
OVERDEPTH (+ MLW)	63,900
TOTAL (CY)	107,600

- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD83). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

**RANGE OF TIDE (FT)**  
NOT TO SCALE

0' 100' 200' 400'  
GRAPHIC SCALE (FT)

REV.	DATE	DESCRIPTION	BY	APPR.

**STATE OF NEW JERSEY**  
**NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: LITTLE EGG CHANNEL (157)**  
**CHANNEL BATHYMETRY PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

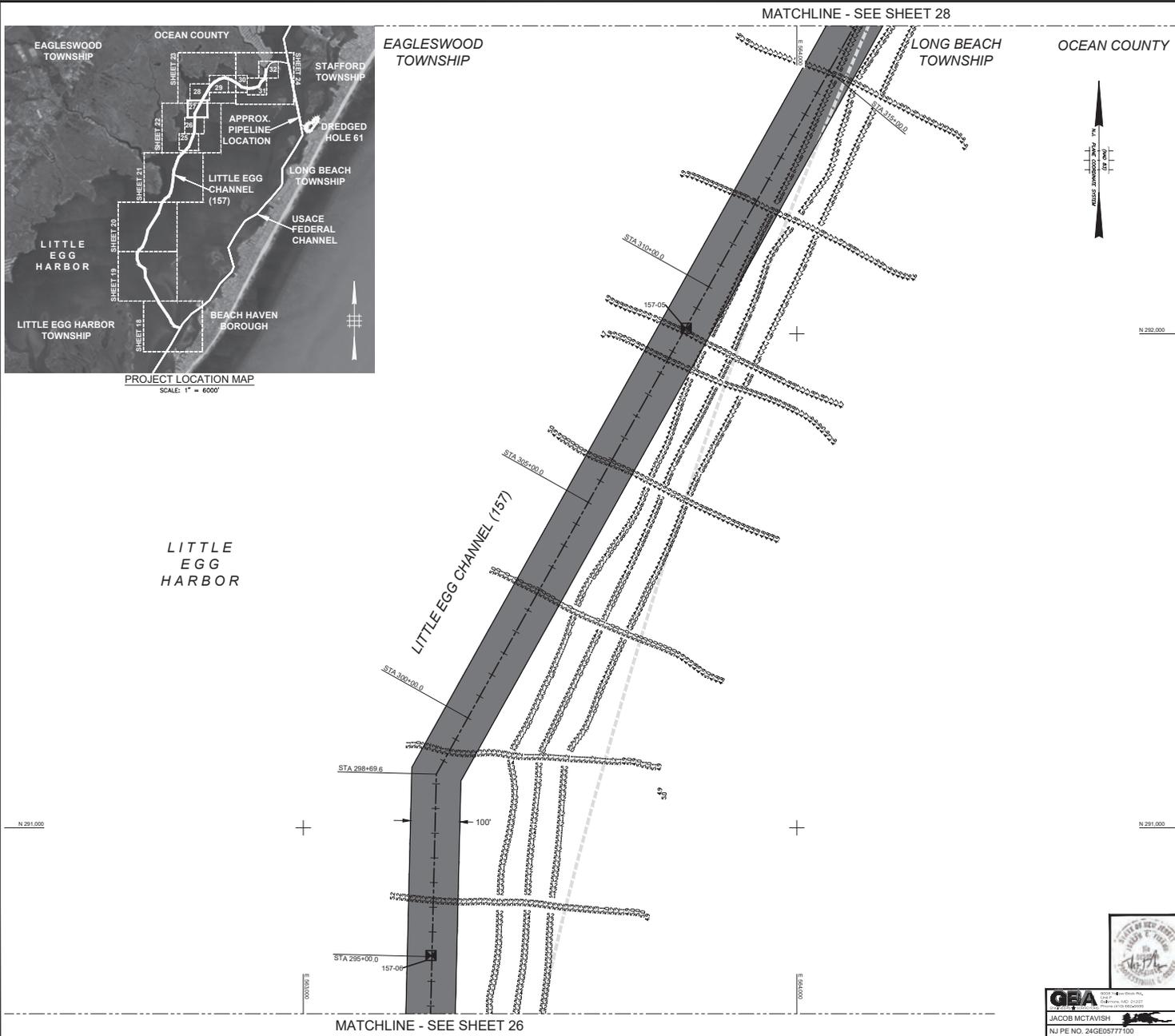
DRAWN BY: RRP	WSP USA Inc.	CERTIFICATION OF AUTHORIZATION	PROJECT NO.
CHECKED BY: JAM	NO. 24GA2823800	JOSEPH C. FISHER	SHEET 26 OF 35
SCALE: AS SHOWN	NEW JERSEY PROFESSIONAL ENGINEER		DWG. NO. PERMIT - 25
DATE: OCT 2025	NO. 24GE0565000		



**GBA**  
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BARNEGAT, NJ 08003  
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JACOB MCTAVISH  
NJ PE NO. 24GE05777100

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PROJECT LOCATION MAP  
SCALE: 1" = 500'

MATCHLINE - SEE SHEET 28

OCEAN COUNTY

LONG BEACH TOWNSHIP

EAGLESWOOD TOWNSHIP

LITTLE EGG HARBOR



N 292,000

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
TEMPLATE (+6 MLW)	255+00.0 to 426+00.0
OVERDEPTH (+7 MLW)	63,900
TOTAL (CY)	107,600

NOTES:

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.08 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (MHWL)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	MUNICIPALITY LIMIT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

REV.	DATE	DESCRIPTION	BY	APPR.

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

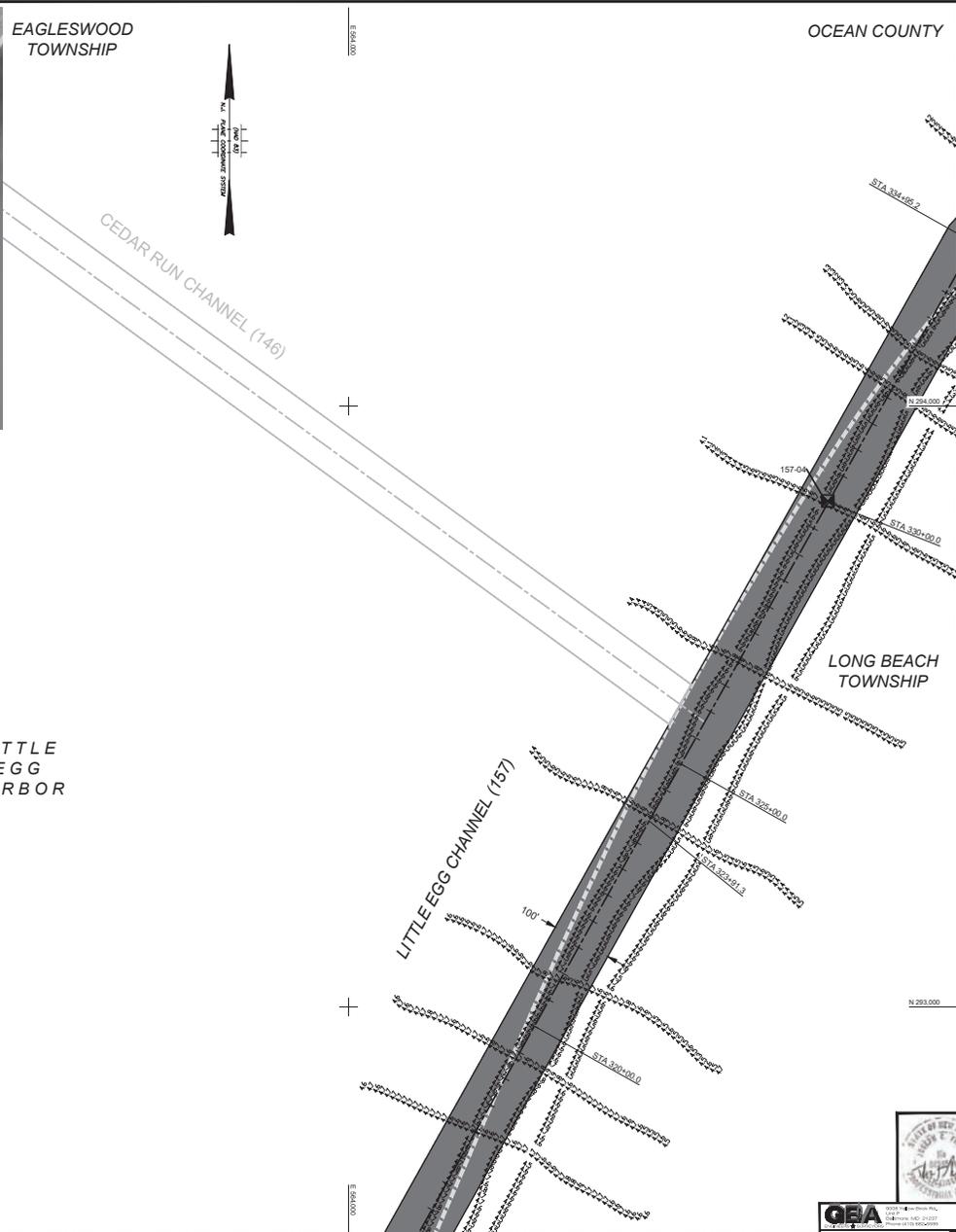
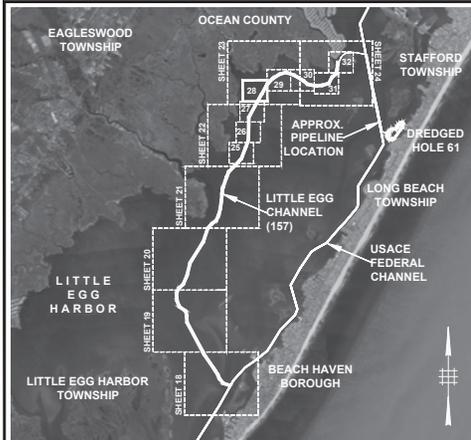
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2823800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER	SHEET 27 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 26

**GBA**  
GAHGAN & BRYANT ASSOCIATES, INC.  
1000 ROUTE 100  
SUITE 200  
BARNEGAT, NJ 08003  
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MATCHLINE - SEE SHEET 26

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CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
TEMPLATE (+6 MLW)	255+00.0 to 426+00.0
OVERDEPTH (+7 MLW)	63,700
TOTAL (CY)	107,600

- NOTES:**
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.08 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC SOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. +7 & +6 MLW)

**RANGE OF TIDE (FT)**  
NOT TO SCALE

2.21 MHW  
1.95 MHW  
1.06 NAVD85  
0.93 MTL  
0.00 MLW  
-0.08 MLW

0' 100' 200' 400'  
GRAPHIC SCALE (FT)

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

**TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL BATHYMETRY PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61  
BOROUGH OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2823800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER	SHEET 28 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 27



**GBA**  
JACOB MCTAVISH  
NJ PE NO. 24GE05777100

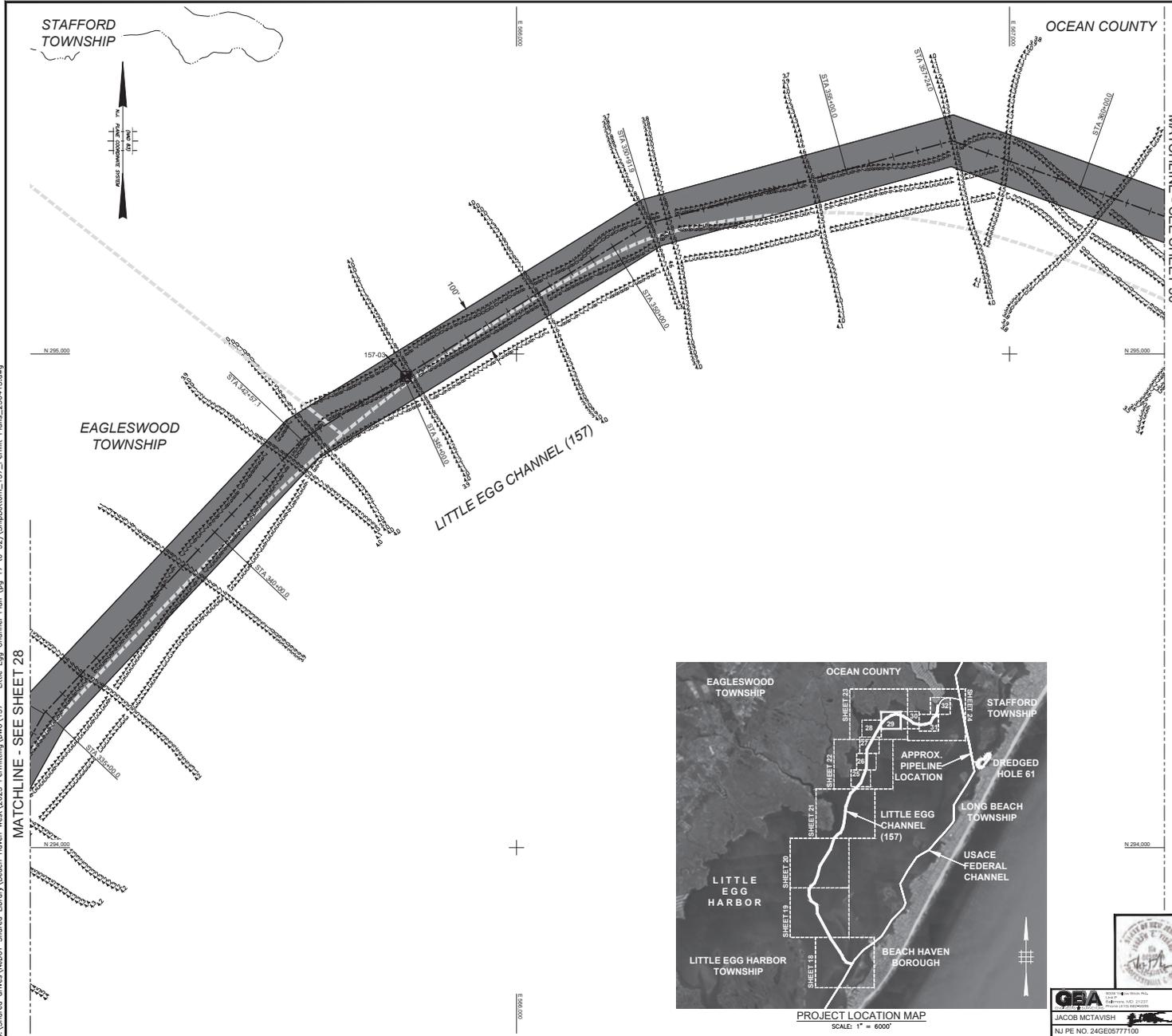
REV.	DATE	DESCRIPTION

N 293,000

E 156,000

MATCHLINE - SEE SHEET 27

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CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
255+00.0 to 426+00.0	
TEMPLATE (+6 MLW)	53,700
OVERDEPTH (-7 MLW)	53,900
TOTAL (C1)	107,600

- NOTES
- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
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  - EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND**

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. +6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

0' 100' 200' 400'  
GRAPHIC SCALE (FT)



PROJECT LOCATION MAP  
SCALE: 1" = 6000'

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LITTLE EGG CHANNEL (157)  
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2029800	PROJECT NO.
CHECKED BY: JAM	JOSEPH C. FISARNY NEW JERSEY PROFESSIONAL ENGINEER	SHEET 29 OF 35
SCALE: AS SHOWN	DATE: OCT 2025	DWG. NO. PERMIT - 28

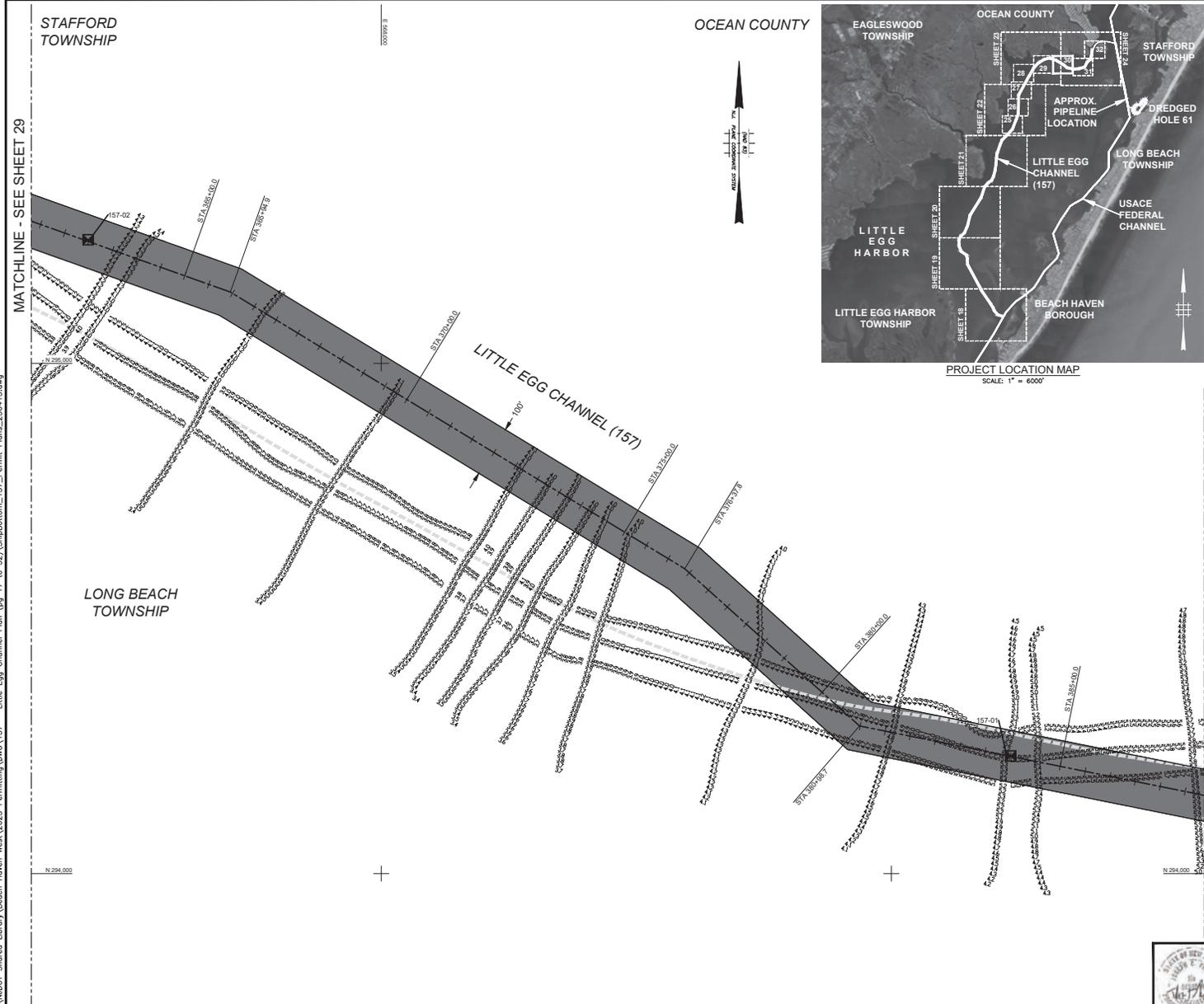
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JACOB MCTAVISH  
NJ PE NO. 24GE0677100

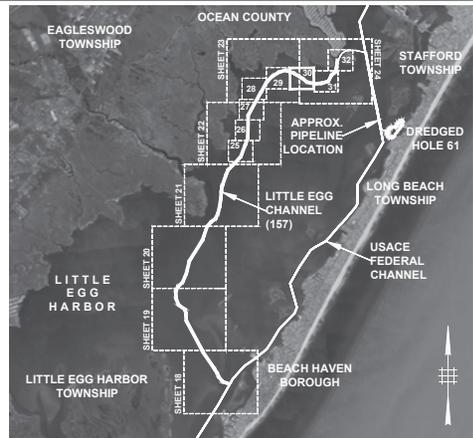
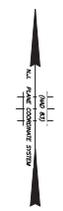
MATCHLINE - SEE SHEET 28

MATCHLINE - SEE SHEET 30

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OCEAN COUNTY



PROJECT LOCATION MAP  
SCALE: 1" = 6000'

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
25S+00.0 to 42S+00.0	
TEMPLATE (+6 MLW)	53,700
OVERDEPTH (-7 MLW)	53,900
TOTAL (C1)	107,600

NOTES

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.08 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED MARCH 14 THROUGH OCTOBER 24, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (SHML)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	MUNICIPALITY LIMIT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

2.21 MHW	1.95 MHW	1.08 NAVD85	0.93 MTL	0.00 MLW	-0.08 MLW
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RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

MATCHLINE - SEE SHEET 31

REV	DATE	DESCRIPTION

**STATE OF NEW JERSEY**  
**NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: LITTLE EGG CHANNEL (157)**  
**CHANNEL BATHYMETRY PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: RRP	WSP USA Inc.	PROJECT NO.:
CHECKED BY: JAM	CERTIFICATION OF AUTHORIZATION	NO. 24GA2829800
SCALE: AS SHOWN	JOSEPH C. FISHER	SHEET 30 OF 35
DATE: OCT 2025	NEW JERSEY PROFESSIONAL ENGINEER	DWG. NO. PERMIT - 29
	NO. 24GE05650600	



STAFFORD TOWNSHIP

LONG BEACH TOWNSHIP

MATCHLINE - SEE SHEET 29

MATCHLINE - SEE SHEET 29

MATCHLINE - SEE SHEET 29

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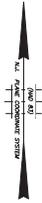
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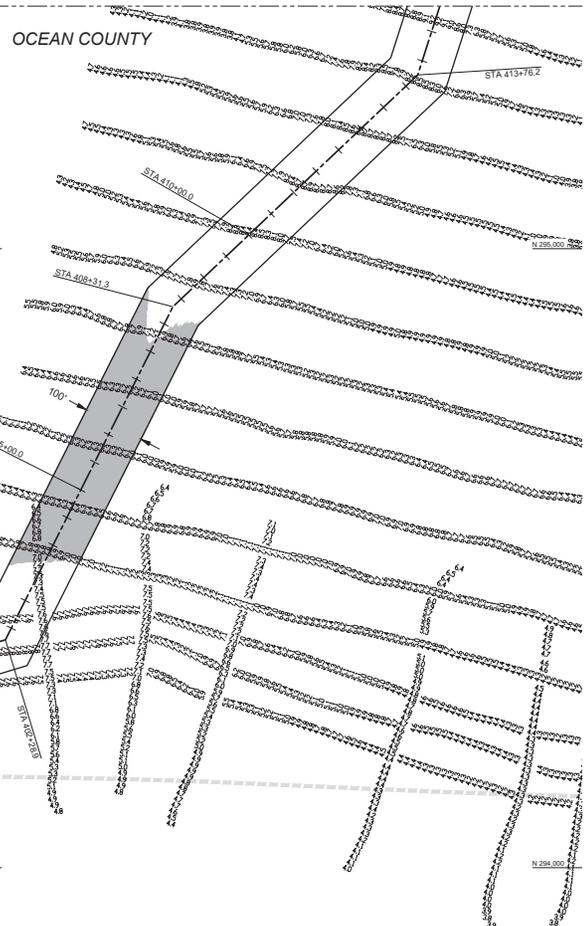
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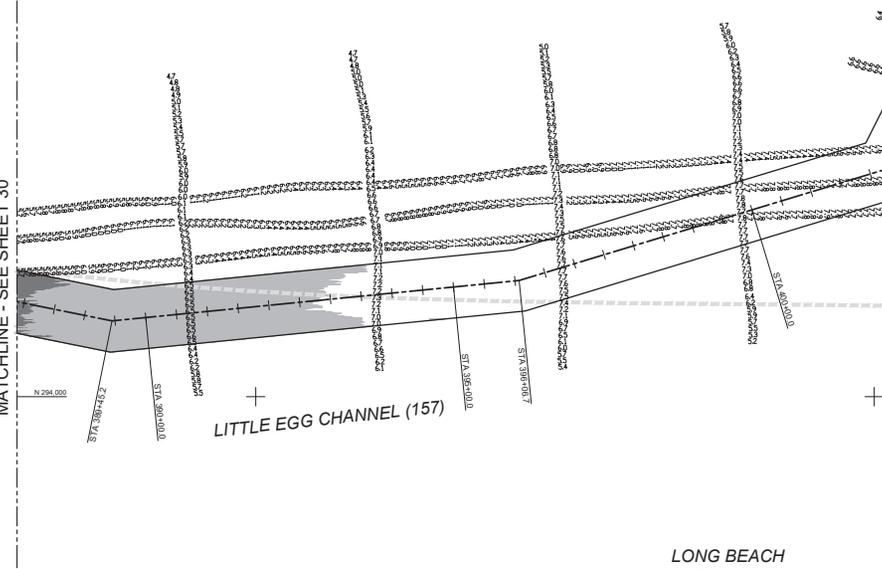
STAFFORD  
TOWNSHIP



MATCHLINE - SEE SHEET 32



OCEAN COUNTY



LONG BEACH  
TOWNSHIP

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
TEMPLATE (+6 MLW)	255+00.0 to 426+00.0
OVERDEPTH (-7 MLW)	53,700
OVERDEPTH (-6 MLW)	53,900
TOTAL CFT	107,600

NOTES

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.06 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED MARCH 14 THROUGH OCTOBER 24, 2019 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHW)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

RANGE OF TIDE (FT)  
NOT TO SCALE

0' 100' 200' 400'  
GRAPHIC SCALE (FT)

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: LITTLE EGG CHANNEL (157) CHANNEL BATHYMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE 61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY	
DRAWN BY: RRP	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2829800
CHECKED BY: JAM	JOSEPH C. FISHER NEW JERSEY PROFESSIONAL ENGINEER
SCALE: AS SHOWN	NO. 24GE9595000
DATE: OCT 2025	
PROJECT NO.	SHEET 31 OF 35
DWG. NO. PERMIT - 30	

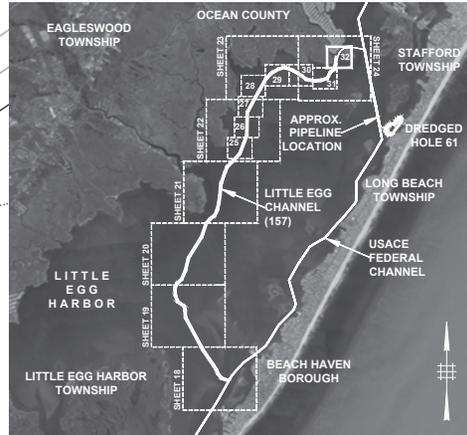
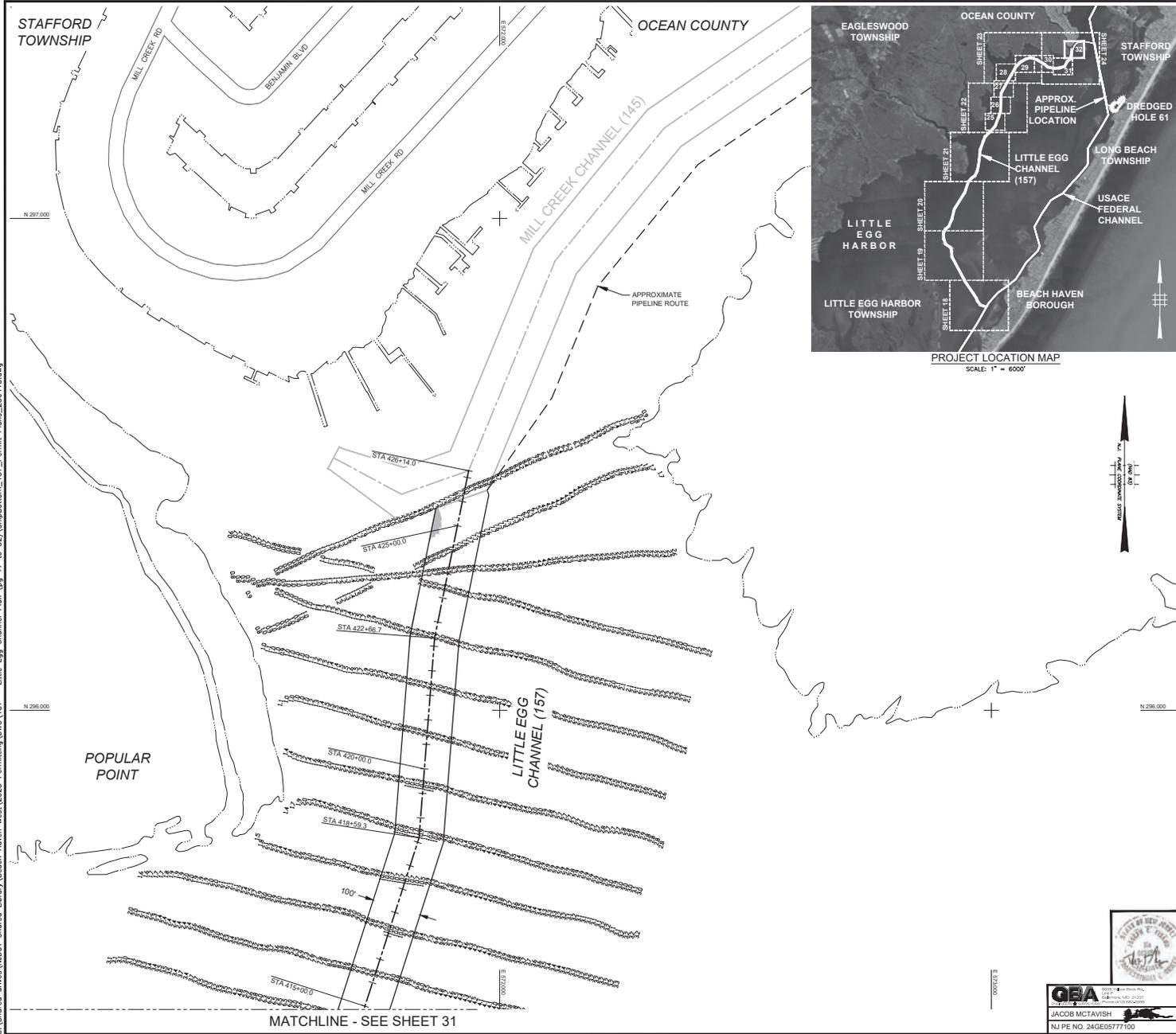


**GBA**  
Geotechnical & Bathymetry Associates, Inc.  
1000 Route 100, Suite 200  
Little Egg Harbor, NJ 08043  
Tel: 732-221-1111  
Fax: 732-221-1112  
www.gba-nj.com

JACOB MCTAVISH  
NJ PE NO. 24GE06777100

REV	DATE	DESCRIPTION

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PROJECT LOCATION MAP  
SCALE: 1" = 6000'

CHANNEL VOLUMES BASED ON MARCH 14 THROUGH OCTOBER 24, 2019 CND SURVEY DATA

LITTLE EGG CHANNEL (157)	
255+00.0 to 426+00.0	
TEMPLATE (+ MLW)	63,700
OVERDEPTH (+ MLW)	63,900
TOTAL (CY)	127,600

NOTES:

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 1.08 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD85). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED MARCH 14 THROUGH OCTOBER 24, 2019 BY GARHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED MAY, 2019 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

	CHANNEL CENTERLINE
	CHANNEL LIMITS
	APPROXIMATE SHORELINE (MHWL)
	APPROXIMATE PIPELINE LOCATION
	EXISTING ROAD/PAVEMENT
	MUNICIPALITY LIMIT
	CHANNEL SAMPLE LOCATION
	HISTORIC RESOURCE AND BUFFER
	AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
	AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

2.21 MHW	2.21 MHW
1.95 MHW	1.95 MHW
1.06 NAVD85	1.06 NAVD85
0.93 MTL	0.93 MTL
0.00 MLW	0.00 MLW
-0.08 MLW	-0.08 MLW

RANGE OF TIDE (FT)  
NOT TO SCALE

GRAPHIC SCALE (FT)

BY: APPR:		STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
DESCRIPTION:		TITLE: LITTLE EGG CHANNEL (157) CHANNEL BATHYMETRY PLAN	
DATE:		PROJECT NO.:	
DRAWN BY: RRP		PROJECT NO.:	
CHECKED BY: JAM		SHEET 32 OF 35	
SCALE: AS SHOWN		DWG. NO. PERMIT - 31	
DATE: OCT 2025		DWG. NO. PERMIT - 31	

**GBA**  
Garhagan & Bryant Associates, Inc.  
1000 Park Ave., Suite 200  
Barnegat, NJ 08003  
Tel: 732-261-1100  
Fax: 732-261-1101  
www.gba.com

JACOB MCTAVISH  
NJ PE NO. 24GE05777100



WSP USA INC.  
CERTIFICATION OF AUTHORIZATION  
NO. 24GA2823800

JOSEPH C. TISCARY  
NEW JERSEY PROFESSIONAL ENGINEER  
NO. 24GE05650600

MATCHLINE - SEE SHEET 31







DREDGED HOLE #61 RESTORATION VOLUMES		
ELEVATION (MLW)	LIFT VOLUME (CY)	CUMULATIVE VOLUME (CY)
-29 to -27	100	100
-27 to -25	700	800
-25 to -23	3,300	4,100
-23 to -21	7,400	11,500
-21 to -19	13,800	25,300
-19 to -17	23,800	49,100
-17 to -15	35,100	84,200
-15 to -13	49,100	133,300
-13 to -11	61,700	195,000
-11 to -9	71,600	266,600
-9 to -7	85,700	352,300
TOTAL (CY) *		352,300

\* ±266,600 CY RESTORATION MATERIAL & ±85,700 CY FINAL COVER MATERIAL

**NOTES:**

- VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW), MLW IS 1.00 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1985 (NAVD83), INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- EXISTING SHORELINE & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
- DREDGED HOLE (DH) #61 EXISTING CONTOUR DATA SHOWN WAS COLLECTED ON NOVEMBER 15, 2023 BY STOCKTON UNIVERSITY COASTAL RESEARCH CENTER.
- THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE ABOVE DATES AND SHOULD BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

**LEGEND**

- 2.07 MHW
- 1.80 MHW
- 1.00 NAVD83
- 1.10 MTL
- 0.00 MLW
- 0.05 MLW

--- CHANNEL CENTERLINE (APPROX.)  
 --- CHANNEL LIMITS (APPROX.)  
 --- APPROXIMATE SHORELINE (MHWL)  
 --- PIPELINE LOCATION (APPROX.)  
 --- EXISTING 2' CONTOUR  
 --- EXISTING ROAD/PAVEMENT

■ DH #61 RESTORATION AREA LIMIT

**RANGE OF TIDE (FT)**  
 NOT TO SCALE

0' 100' 200' 400'  
**GRAPHIC SCALE (FT)**

**STATE OF NEW JERSEY**  
**NJDOT OFFICE OF MARITIME RESOURCES**

**TITLE: NJDEP PERMIT PLANS - HABITAT RESTORATION PLAN**

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHIP BOTTOM CHANNEL COMPLEX WITH PLACEMENT AT DREDGED HOLE #61, BOROUGHS OF BEACH HAVEN, HARVEY CEDARS, SHIP BOTTOM AND SURF CITY, TOWNSHIPS OF BARNEGAT, EAGLESWOOD, LITTLE EGG HARBOR, LONG BEACH AND STAFFORD, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: SEY  
 CHECKED BY: JAM  
 SCALE: AS SHOWN  
 DATE: OCT 2025

WSP USA INC.  
 CERTIFICATION OF AUTHORIZATION  
 NO. 24GAZ2823800

JOSEPH C. FISARNY  
 NEW JERSEY PROFESSIONAL ENGINEER  
 NO. 24GE05650600

PROJECT NO.  
 SHEET 35 OF 35  
 DWG. NO. PERMIT - 34

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**G&A**  
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JACOB MCTAVISH  
 NJ PE NO. 24GE05777100