US Army Corps of Engineers
Philadelphia District
1650 Arch Street
Philadelphia, PA 19103-2004
Attn: CENAP-OPR

Public Notice

Comment Period Begins: September 9, 2024
Comment Period Ends: October 9, 2024
File Number: NAP-2024-00546-95
File Name: NJDOT-OMR - Berkeley State Channel Complex
Contact: Robert Youhas
Email: robert.youhas@usace.army.mil

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for 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, Inc.
Attn: Ms. Katie Axt
250 W 34th Street, 4 FL
New York, New York 10119

LOCATION: Berkeley Township in Ocean County, New Jersey; Approximate Center Coordinates: 39.869503, -74.136632

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

PROJECT DESCRIPTION:

The applicant, 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 the Berkeley State Channel Complex which is comprised of the following twelve (12) State channels: Clamming Creek North State Channel #1 (#96), Clamming Creek South State Channel (#97), Whites State Channel (#98), Butler Boulevard Access State Channel (#99), Maple Creek State Channel (#100), Cedar Creek State Channel (#101), Cedar Creek Spur State Channel (#102), Laurel Harbor North State Channel (#103), Laurel Harbor South State Channel

(#104), Stouts Creek State Channel (#105), Sunrise Beach State Channel (#106), and Sunrise Beach Spur Channel (#107).

All of the dredging work would be accomplished via hydraulic cutterhead dredge. All resultant dredged material, estimated to total approximately 170,180.0-cubic yards of 50% sand and 50% silt and clay, would be transported via floating and submerged pipeline and hydraulically pumped to the Oyster Creek Confined Disposal Facility (CDF). The Oyster Creek CDF is owned by the State of New Jersey. Return water from the Oyster Creek CDF into Oyster Creek is proposed.

All twelve State navigation channels have been historically maintenance-dredged, most recently under DA Permit Number NAP-1987-02039. The subject maintenance dredging project is intended to restore the Berkeley State Channel Complex to authorized project dimensions. No lateral expansion or deepening is proposed.

For navigational safety, the hydraulic dredge pipeline will be marked in accordance with U.S. Coast Guard regulations. Additionally, the dredge pipeline would be submerged with the following exceptions: where it exits the dredge, where it enters and exits booster pumps, where it approaches the Oyster Creek CDF, and where submerged aquatic vegetation (SAV) is encountered. In these areas the dredge pipeline will be floated on the surface.

Each maintenance dredging event is anticipated to be approximately nine (9) to twelve (12) weeks in duration, including mobilization/demobilization, dredging, and placement 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 on or after 15 October 2024.

Clamming Creek North State Channel #1 (#96) (39.890261, -74.134103)

Maintenance dredging of 18,780.0-cubic yards of shoaled sediments from a 6,540.0-foot-long channel to -5.0-feet below the plane of Mean Low Water (MLW), plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 30.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 11.4-acres.

Clamming Creek South State Channel (#97) (39.887461, -74.130205)

Maintenance dredging of 10,620.0-cubic yards of shoaled sediments from a 5,390.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 60.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 12.2-acres.

Whites State Channel (#98) (39.885944, -74.139643)

Maintenance dredging of 7,610.0-cubic yards of shoaled sediments from a 1,480.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 40.0- and 50.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 1.6-acres.

Butler Boulevard Access State Channel (#99) (39.882216, -74.131765)

Maintenance dredging of 2,370.0-cubic yards of shoaled sediments from a 5,740.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 50.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 12.4-acres.

Maple Creek State Channel (#100) (39.880516, -74.141535)

Maintenance dredging of 2,320.0-cubic yards of shoaled sediments from a 2,960.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 30.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 3.4-acres.

Cedar Creek State Channel (#101) (39.869508, -74.144374)

Maintenance dredging of 59,880.0-cubic yards of shoaled sediments from a 12,350.0-foot-long channel to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 50.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 25.5-acres.

Cedar Creek Spur State Channel (#102) (39.871417, -74.157303)

Maintenance dredging of 4,010.0-cubic yards of shoaled sediments from a 400.0-foot-long channel to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width is 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 0.8-acres.

Laurel Harbor North State Channel (#103) (39.862403, -74.128655)

Maintenance dredging of 31,000.0-cubic yards of shoaled sediments from a 4,040.0-foot-long channel to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 50.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 9.1-acres.

Laurel Harbor South State Channel (#104) (39.852466, -74.133896)

Maintenance dredging of 21,110.0-cubic yards of shoaled sediments from a 5,100.0-foot-long channel to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable

overdredge is proposed. The channel design width varies between 40.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 8.9-acres.

Stouts Creek State Channel (#105) (39.845729, -74.144952)

Maintenance dredging of 17,170.0-cubic yards of shoaled sediments from a 5,000.0-foot-long channel to -6.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 50.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 10.1-acres.

Sunrise Beach State Channel (#106) (39.841683, -74.138347)

Maintenance dredging of 1,720.0-cubic yards of shoaled sediments from a 3,490.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 20.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 7.7-acres.

Sunrise Beach Spur Channel (#107) (39.841064, -74.145734)

Maintenance dredging of 1,200.0-cubic yards of shoaled sediments from a 420.0-foot-long channel to -5.0-feet below the plane of MLW, plus 1.0-foot of allowable overdredge is proposed. The channel design width varies between 50.0- and 100.0-feet, with 3:1 side slopes. The total dredge footprint is approximately 0.8-acres.

Dredged Material Disposal

All resultant dredged material will be hydraulically pumped via pipeline into uplands at the Oyster Creek CDF. Return water from the Oyster Creek CDF into Oyster Creek is proposed. The Oyster Creek CDF is owned and maintained by the State of New Jersey.

For additional project details, see the attached plans identified as: Project Plan Sheets 1 through 38.

MITIGATION

The applicant has stated that the proposed project has been designed to avoid and minimize adverse effects on the aquatic environment to the maximum extent practicable. Information provided in the application and on the plans indicates that compensatory mitigation is neither practicable nor feasible for the amount of dredged or fill material to be discharged into waters of the United States.

The only proposed discharge into Waters of the U.S. for the subject project entails return water from the Oyster Creek CDF into Oyster Creek during dredged material placement activities.

CORPS EVALUATION FACTORS

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The 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 work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof. Among these factors are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people.

The evaluation of the impact of this project will also include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency if the project includes a discharge of dredge or fill material pursuant to Section 404 of the Clean Water Act.

Evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, EPA, (40 CFR part 230) or of the criteria established under authority of section 102(a) of the Marine Protection, Research and Sanctuaries Act of 1972.

In cases involving construction of artificial islands, installation and other devices on the outer continental shelf lands, the decision as to whether a permit will be issued will be based on evaluation of the impact of the proposed work on navigation and national security.

ENDANGERED SPECIES

A preliminary review of this application indicates that aquatic-based species and/or their critical habitat pursuant to Section 7 of the Endangered Species Act (ESA) may be present in the action area. This office will forward this Public Notice to the National Marine Fisheries Service (NMFS) with a request for technical assistance on whether any ESA-listed species or their critical habitat may be present in the area which would be affected by the proposed activity. This office will evaluate the potential effects of the proposed actions on ESA-listed species or their critical habitat and will consult with the NMFS, as appropriate. ESA Section 7 consultation would be concluded prior to the final decision on this permit application.

A preliminary review of this application indicates that the proposed work would not affect listed land-based species or their critical habitat pursuant to Section 7 of the Endangered Species Act (ESA). As a result, consultation with the U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the ESA is not necessary. As the evaluation

of this application continues, additional information may become available which could modify this preliminary determination.

CULTURAL RESOURCES AND TRIBAL TRUST

The District's Cultural Resource Specialist and Tribal Liaison is currently reviewing the proposed permit action for potential impacts to Historic Properties eligible for or listed on the National Register of Historic Places and for potential issues concerning the Tribes. A determination of effects will be coordinated with the State Historic Preservation Office, the Tribes and other consulting parties as necessary.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) requires all federal agencies to consult with the NMFS for all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). A preliminary review of this application indicates that EFH is present within the project area. This office will evaluate the potential effects of the proposed actions on EFH and will consult with NMFS, as appropriate. Consultation would be concluded prior to the final decision on this permit application.

WATER QUALITY CERTIFICATE

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate (WQC) is required from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

COASTAL ZONE MANAGEMENT ACT

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management (CZM) Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State CZM Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact on the State's coastal zone should be sent to this office with a copy to the State's CZM office.

SUBMISSION OF COMMENTS AND PUBLIC HEARING REQUEST

Any comments received will be considered by this office to determine whether to issue, modify, condition, or deny a permit for this proposed project. To make this decision, comments are used to assess the probable impact on the public interest.

Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work must be submitted, in writing, within the comment period indicated in the header above. Any person may request, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing must be in writing and state the reasons for holding a public hearing.

Please provide any comments, request for a public hearing, or requests for additional information to the Regulatory Project Manager indicated above. All Public Notices are posted on our website at:

https://www.nap.usace.army.mil/Missions/Regulatory/Public-Notices/

Digitally signed by
Glenn R. Weitknecht
Date: 2024.09.06
08:54:20 -04'00'

FOR: Todd A. Schaible
Chief, Regulatory Branch

State of New Jersey
Department of Transportation

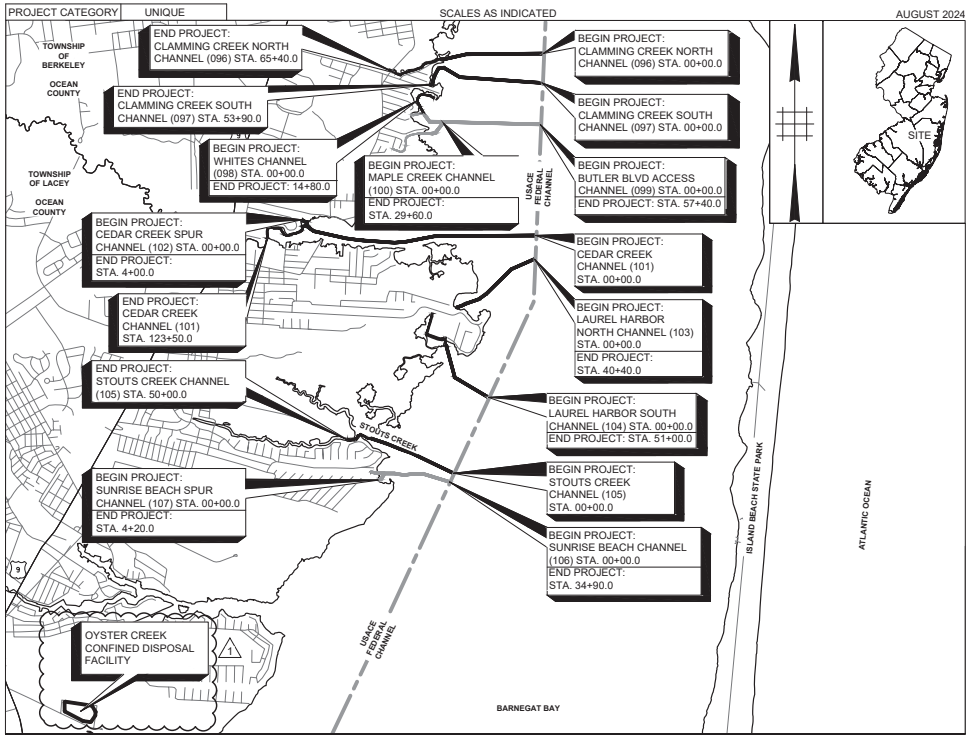
PLANS OF

MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107

TOWNSHIP OF LACEY AND TOWNSHIP OF BERKELEY,
COUNTY OF OCEAN, NEW JERSEY

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	KEY SHEET
2	BERKELEY CHANNEL COMPLEX - GEOMETRY PLAN SHEET OVERVIEW
3 - 12	BERKELEY CHANNEL COMPLEX - CHANNEL ARRANGEMENT & GEOMETRY PLAN
13	BERKELEY CHANNEL COMPLEX - CHANNEL GEOMETRY TEMPLATES AND VERTICAL DATUMS
14-15	BERKELEY CHANNEL COMPLEX - CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES
16	BERKELEY CHANNEL COMPLEX - BATHYMETRY PLAN SHEET OVERVIEW
17-19	CLAMMING CREEK NORTH - CHANNEL BATHYMETRY PLAN
20-22	CLAMMING CREEK SOUTH - CHANNEL BATHYMETRY PLAN
23	WHITES CHANNEL - CHANNEL BATHYMETRY PLAN
24-29	CEDAR CREEK - CHANNEL BATHYMETRY PLAN
30	CEDAR CREEK SPUR - CHANNEL BATHYMETRY PLAN
31-32	LAUREL HARBOR NORTH - CHANNEL BATHYMETRY PLAN
33-34	LAUREL HARBOR SOUTH - CHANNEL BATHYMETRY PLAN
35-37	STOUTS CREEK - CHANNEL BATHYMETRY PLAN
38	PIPELINE ROUTE PLAN
39	PLACEMENT PLAN - OYSTER CREEK CONFINED DISPOSAL FACILITY

PROJECT CATEGORY | UNIQUE — SCALES AS INDICATED — AUGUST 2024



KEY MAP

TOTAL LENGTH OF PROJECT = ±52,910 LIN. FT. OR 10.021 MILES
2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

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: 371,865.92
EASTING: 589,477.126

PERMITS PLANS NOT FOR CONSTRUCTION

⚠1 REVISION 1 - ALL SHEETS

DREDGED MATERIAL PLACEMENT IS NOT CURRENTLY PROPOSED AT THE STOUTS CREEK BENEFICIAL USE MARSH RESTORATION SITE; THE SITE HAS BEEN REMOVED FROM THESE PERMIT PLANS. MAINTENANCE DREDGING MATERIAL FROM THE BERKELEY CHANNEL COMPLEX WILL BE PLACED AT THE OYSTER CREEK CONFINED DISPOSAL FACILITY IN LIEU.

"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."

Michael J Marano

WSP USA INC.

CERTIFICATE OF AUTHORIZATION NO. 24GA28029800

MICHAEL J. MARANO

NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

LEGEND

MUNICIPALITY LIMIT

0' 1,200' 2,400' 4,800'

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
GEOMETRY PLAN SHEET OVERVIEW

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

REV	DATE	DESCRIPTION	BY	APPR.
1	6/27/24	OYSTER CREEK CDF	JAM	MJM

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

JACOB MCTAVISH
NJ PE NO. 24GE05777100

PROJECT NO.

SHEET 2 OF 39

DWG. NO. PERMIT - 01

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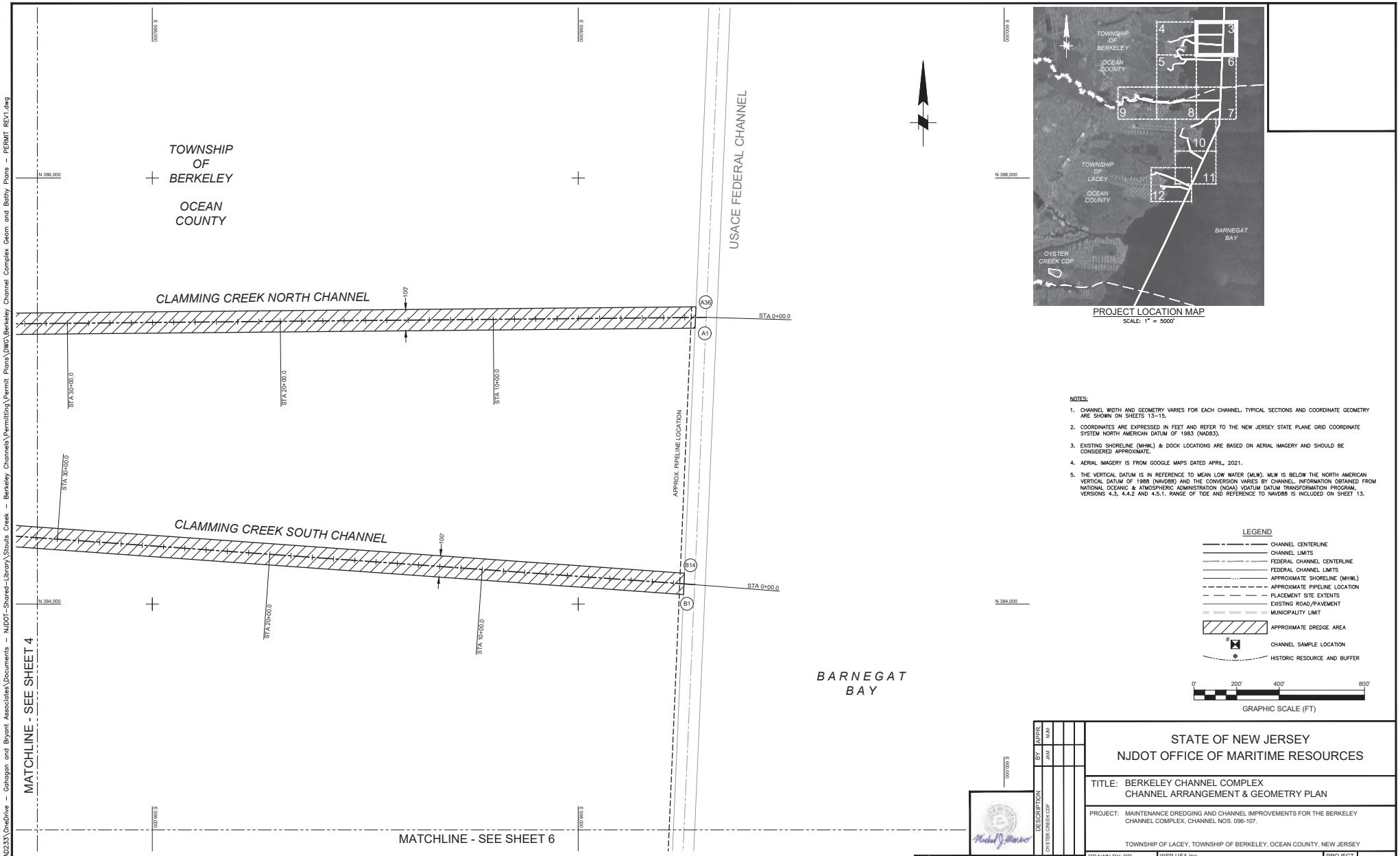

PROJECT LOCATION MAP
SCALE: 1" = 5000'

NOTES:

1. CHANNEL WIDTH AND GEOMETRY VARIES FOR EACH CHANNEL. TYPICAL SECTIONS AND COORDINATE GEOMETRY ARE SHOWN ON SHEETS 13–15.
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 (MHWL) & DOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED APRIL, 2021.
5. THE VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS BELOW THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND THE CONVERSION VARIES BY CHANNEL. INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSIONS 4.3, 4.4.2 AND 4.5.1. RANGE OF TIDE AND REFERENCE TO NAVD88 IS INCLUDED ON SHEET 13.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- PLACEMENT SITE EXTENTS
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 3 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 02
DATE: APRIL 2024		

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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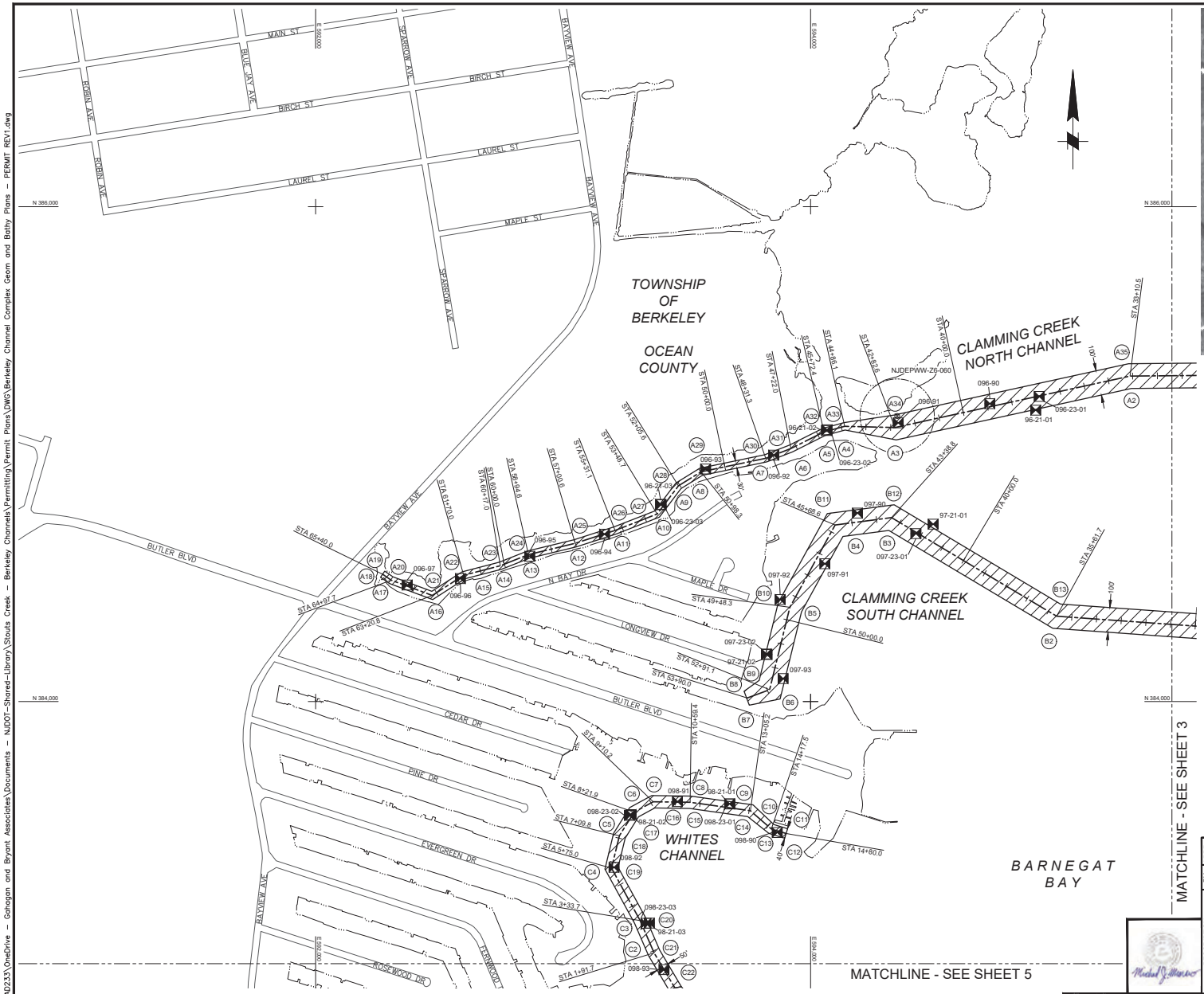

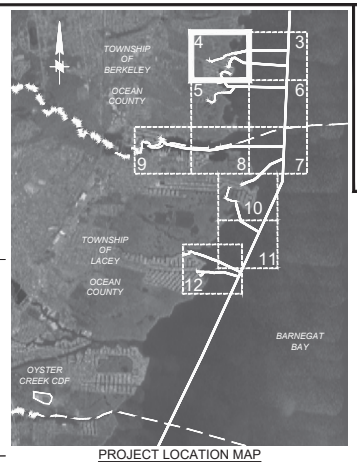

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SCALE: 1" = 5000'

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0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
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PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 4 OF 39	
SCALE: AS SHOWN		DWG. NO. PERMIT - 03	
DATE: APRIL 2024			

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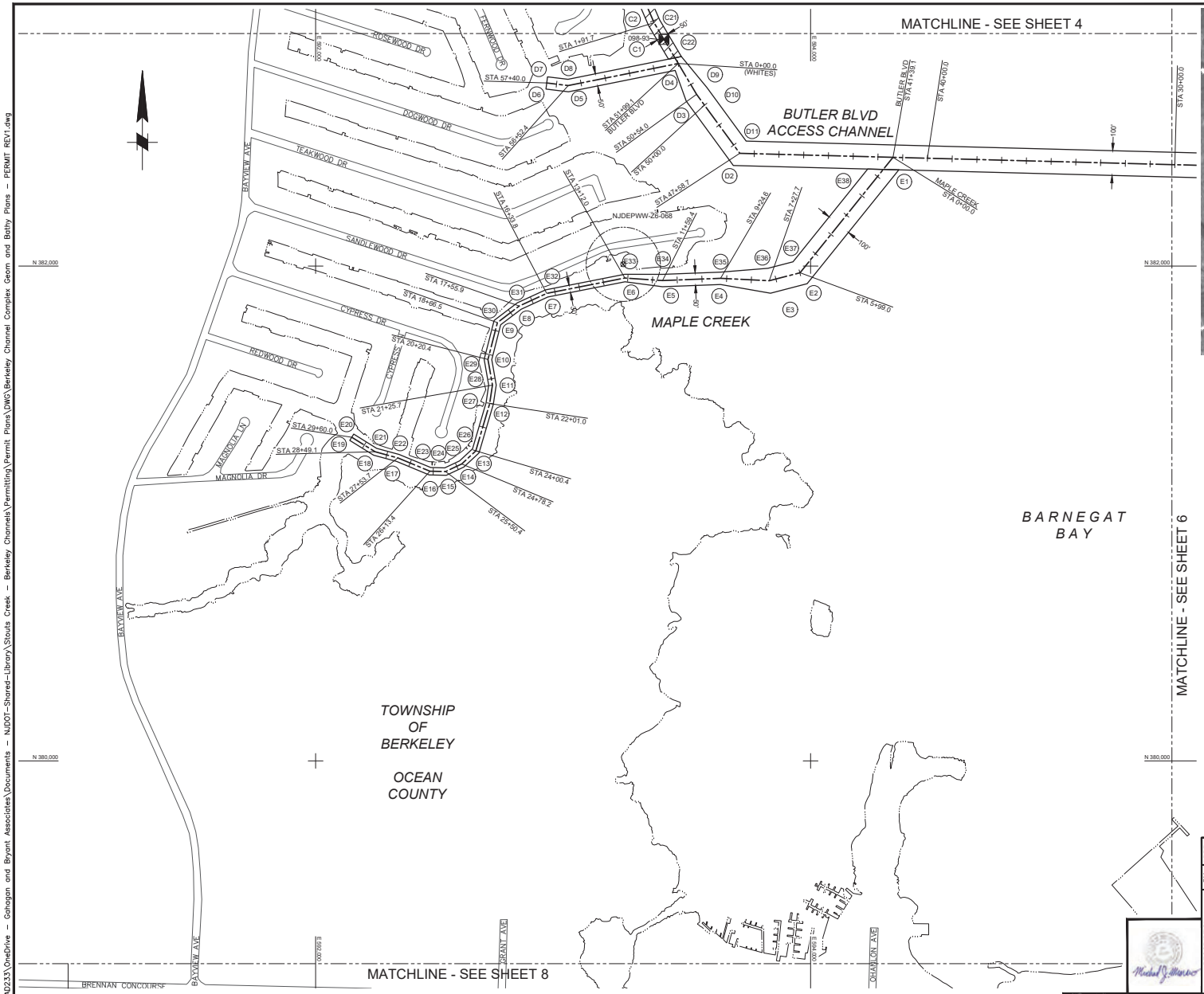

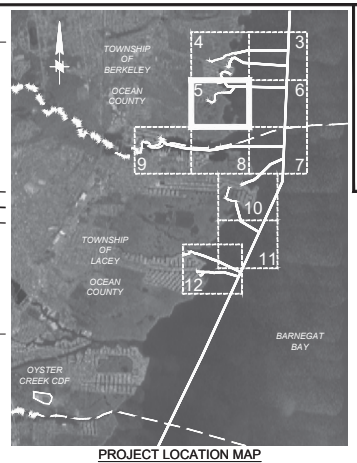

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0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 5 OF 39
SCALE: AS SHOWN		DWG. NO. PERMIT - 04
DATE: APRIL 2024		

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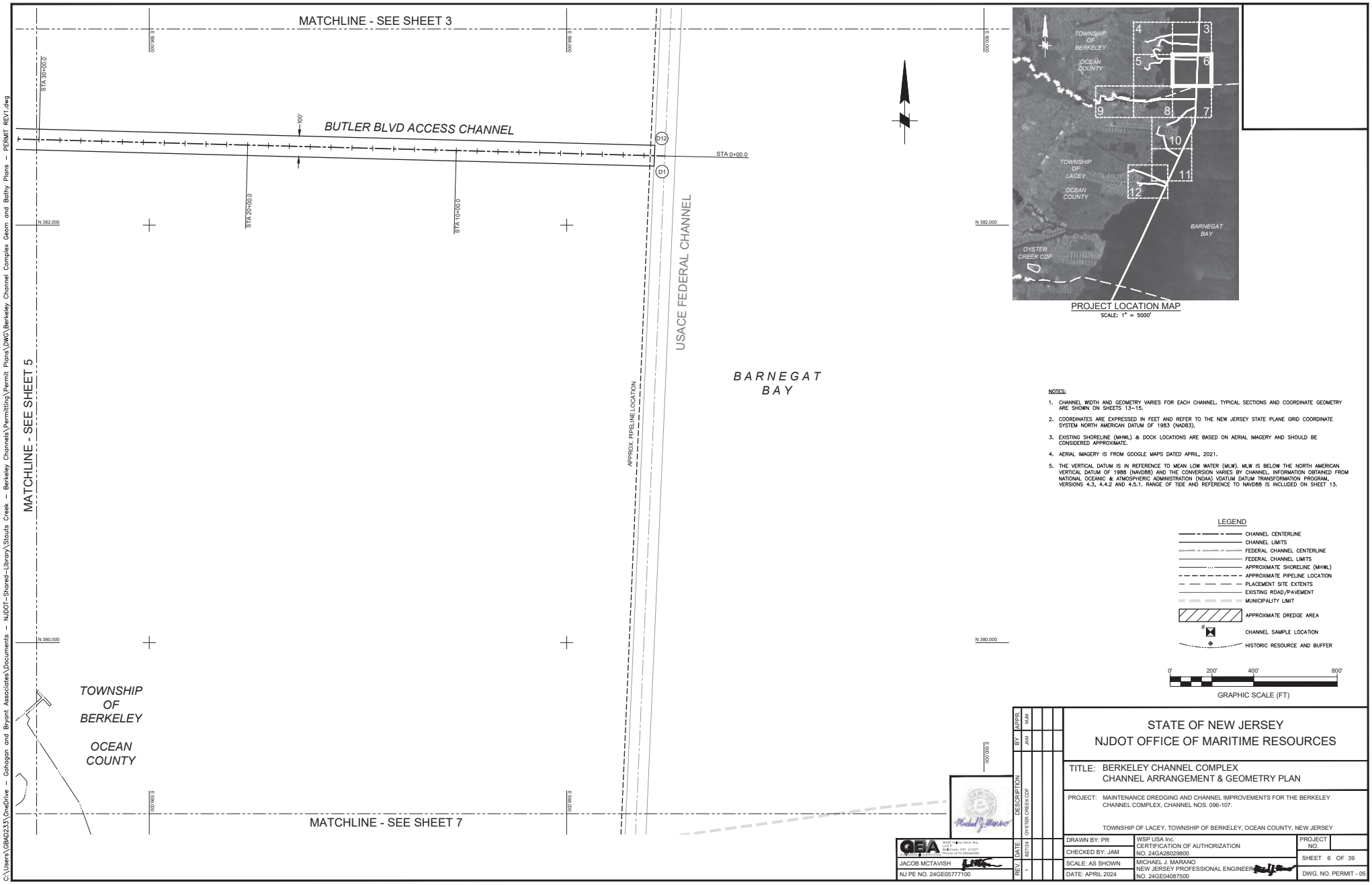

PROJECT LOCATION MAP
SCALE: 1" = 5000'

NOTES:

1. CHANNEL WIDTH AND GEOMETRY VARIES FOR EACH CHANNEL. TYPICAL SECTIONS AND COORDINATE GEOMETRY ARE SHOWN ON SHEETS 13–15.
2. 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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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- PLACEMENT SITE EXTENTS
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 6 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 05
DATE: APRIL 2024		

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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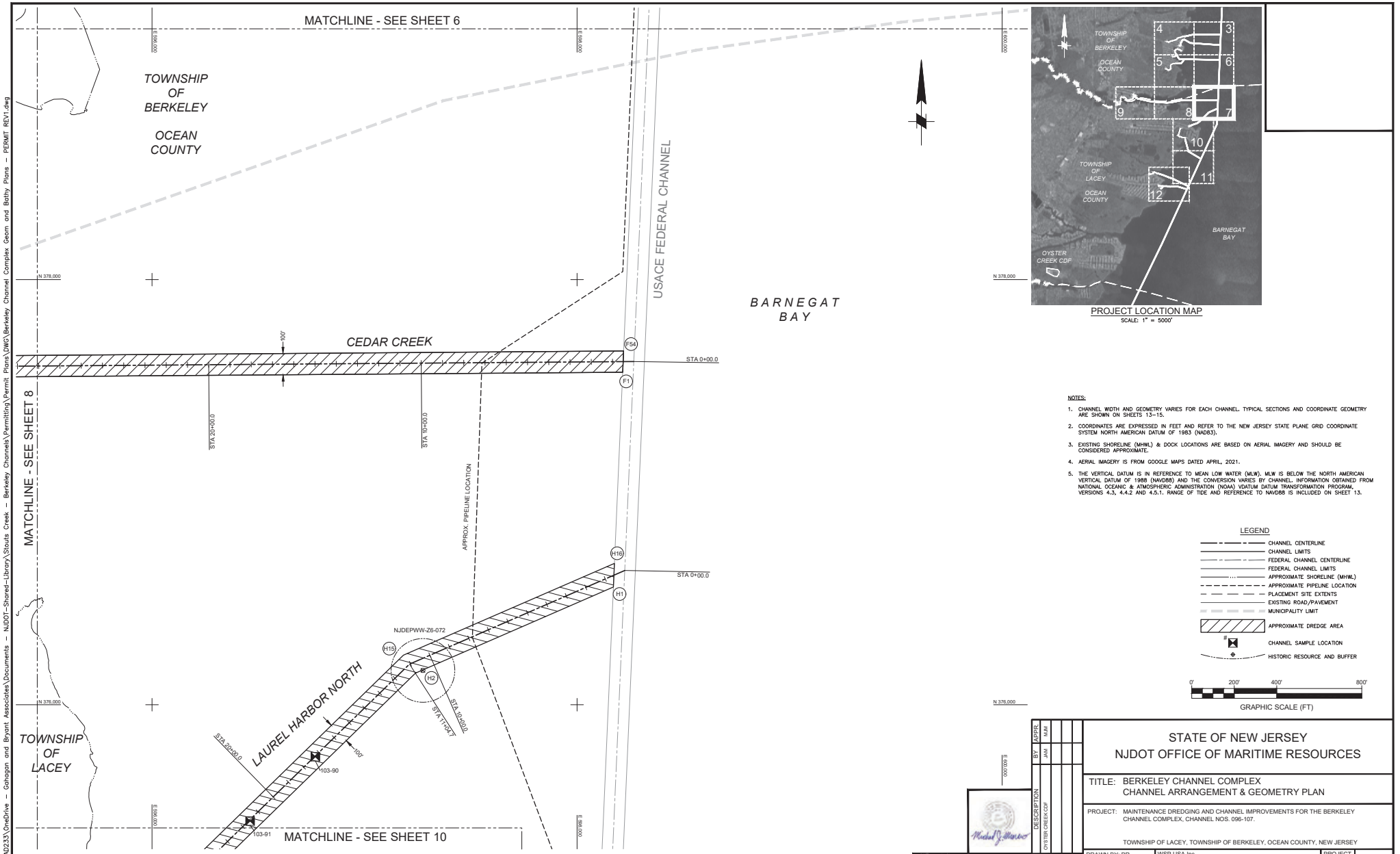

PROJECT LOCATION MAP
SCALE: 1" = 5000'

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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- PLACEMENT SITE EXTENTS
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 7 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 06	
DATE: APRIL 2024			

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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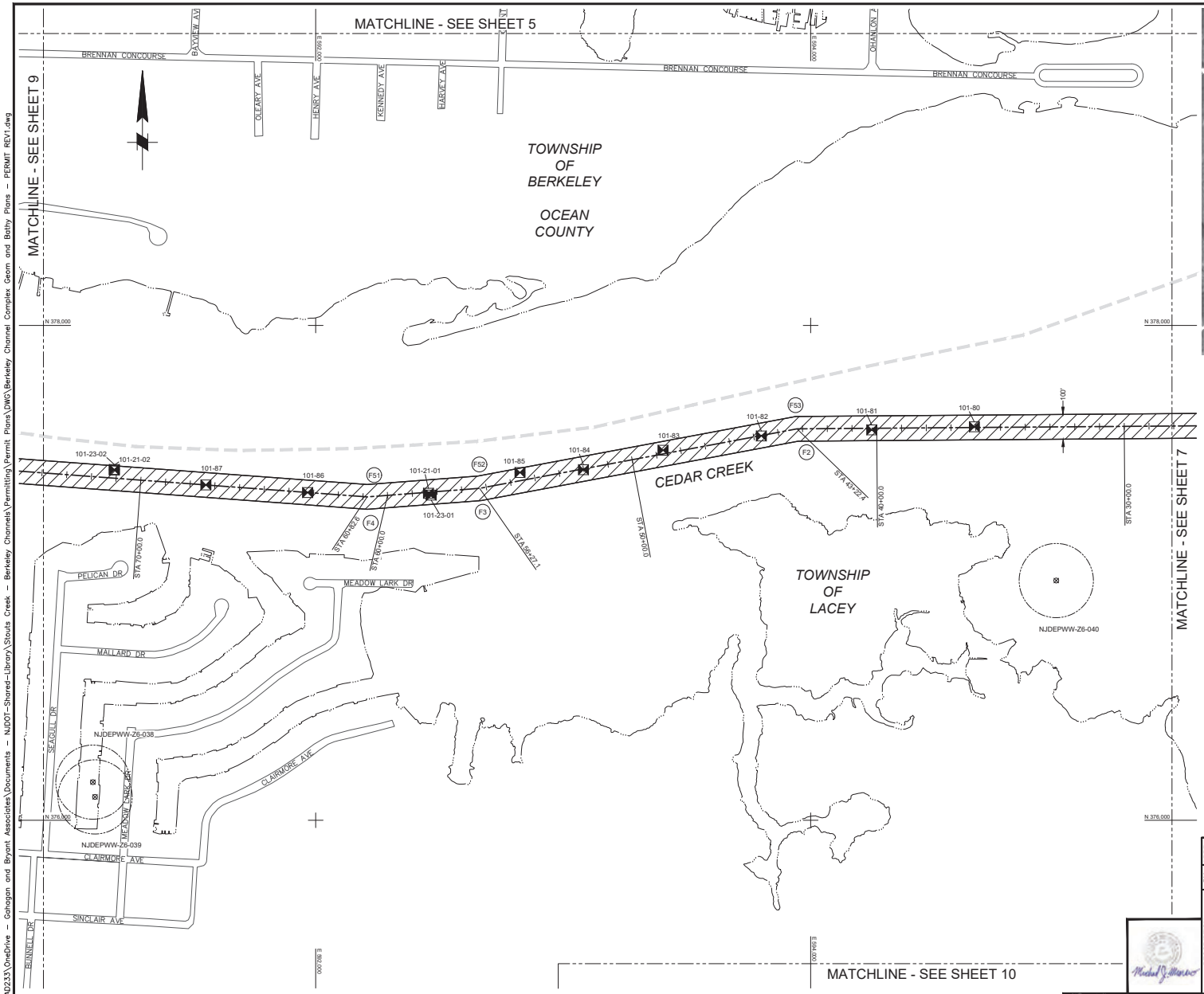

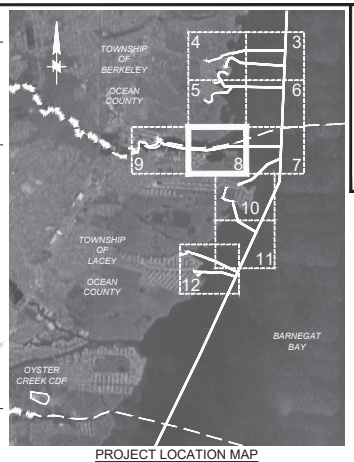

PROJECT LOCATION MAP
SCALE: 1" = 5000'

NOTES:

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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- PLACEMENT SITE EXTENTS
- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 8 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 07
DATE: APRIL 2024		

QBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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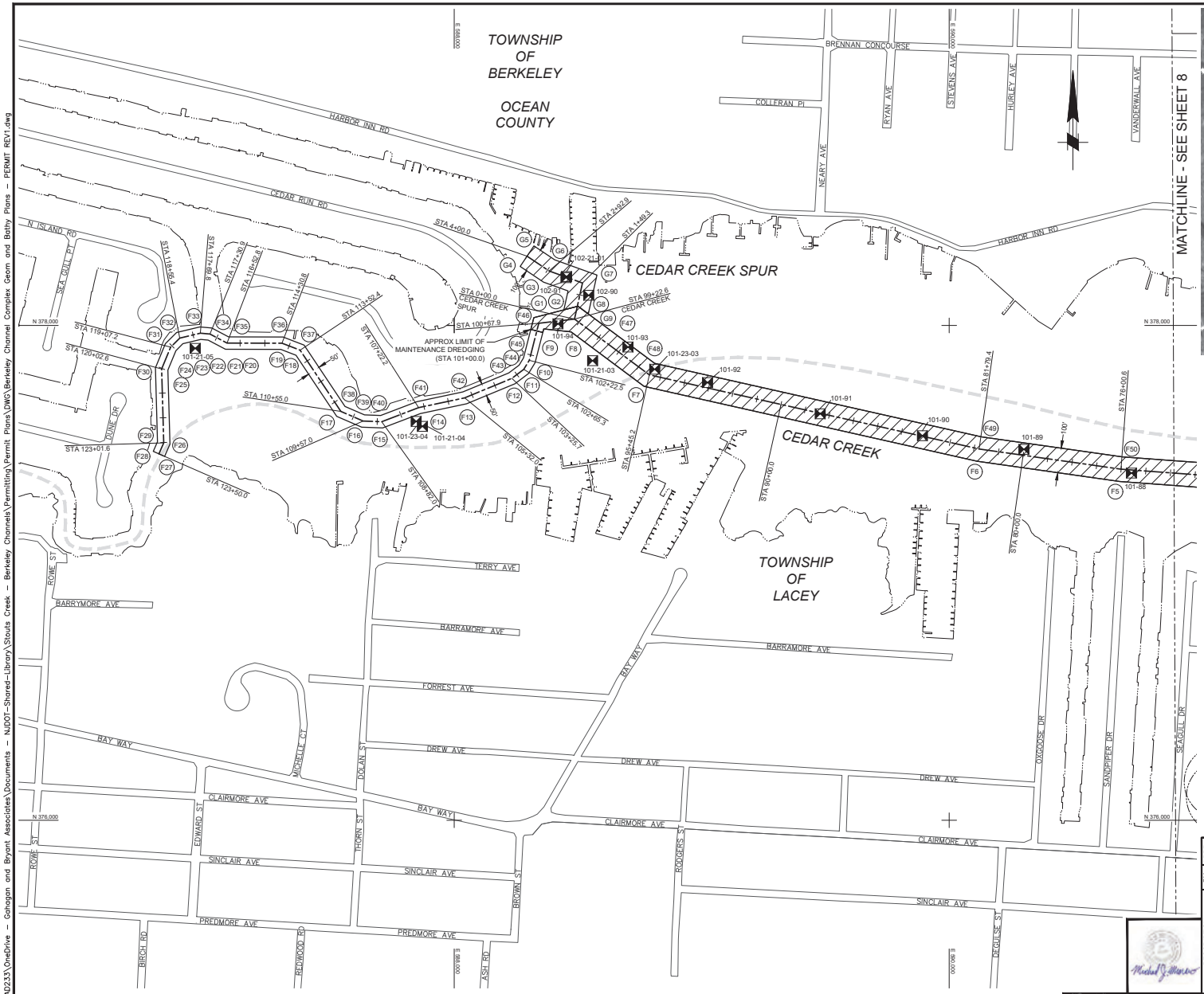

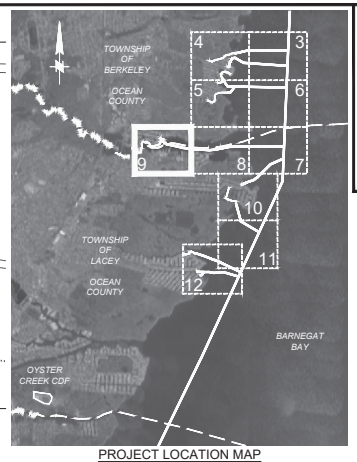

PROJECT LOCATION MAP
SCALE: 1" = 5000'

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LEGEND

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

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 9 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 08
DATE: APRIL 2024		

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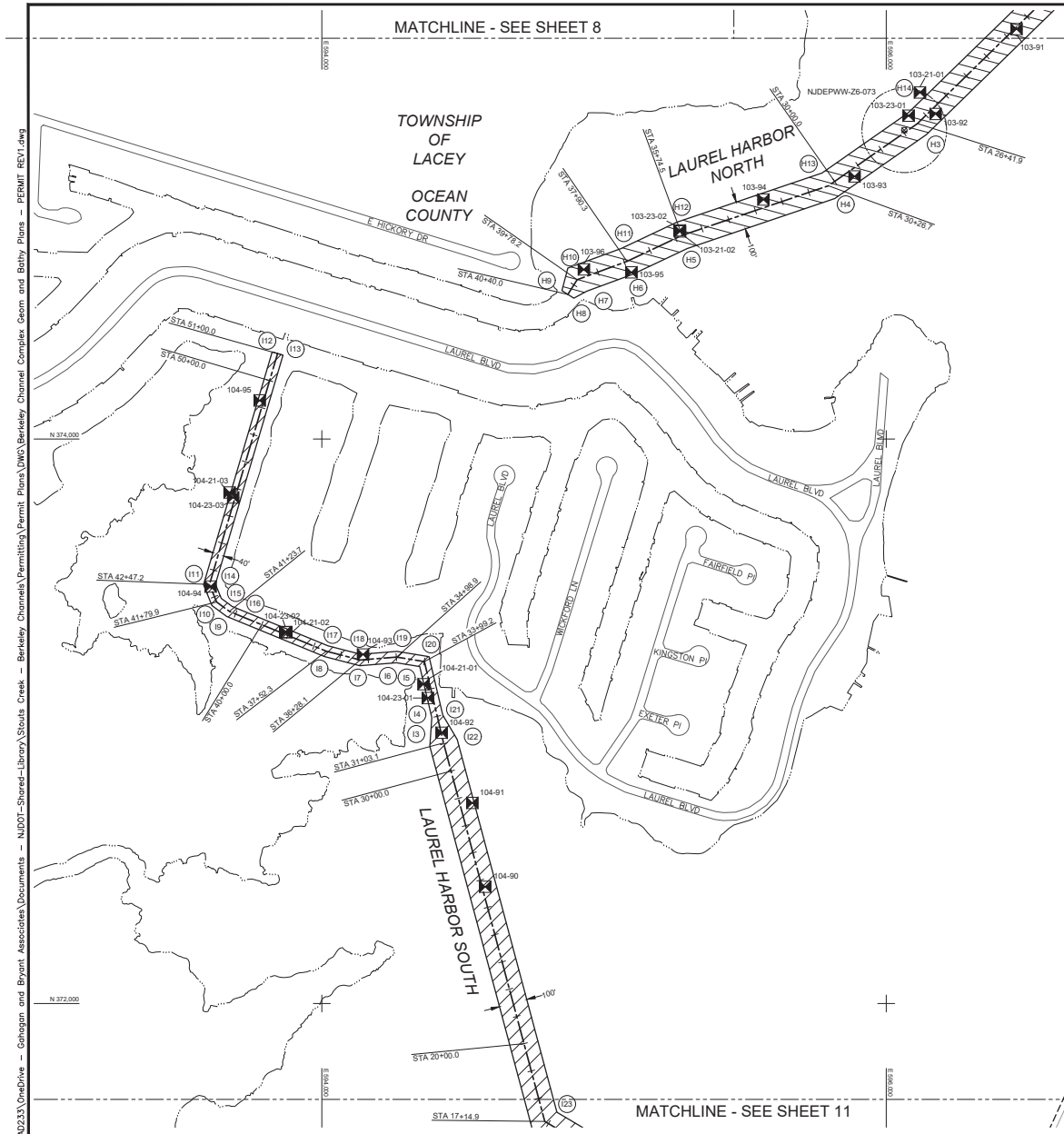

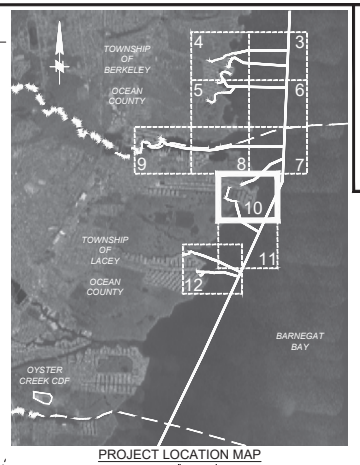

PROJECT LOCATION MAP
SCALE: 1" = 5000'

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- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 10 OF 39
SCALE: AS SHOWN		DWG. NO. PERMIT - 09
DATE: APRIL 2024		

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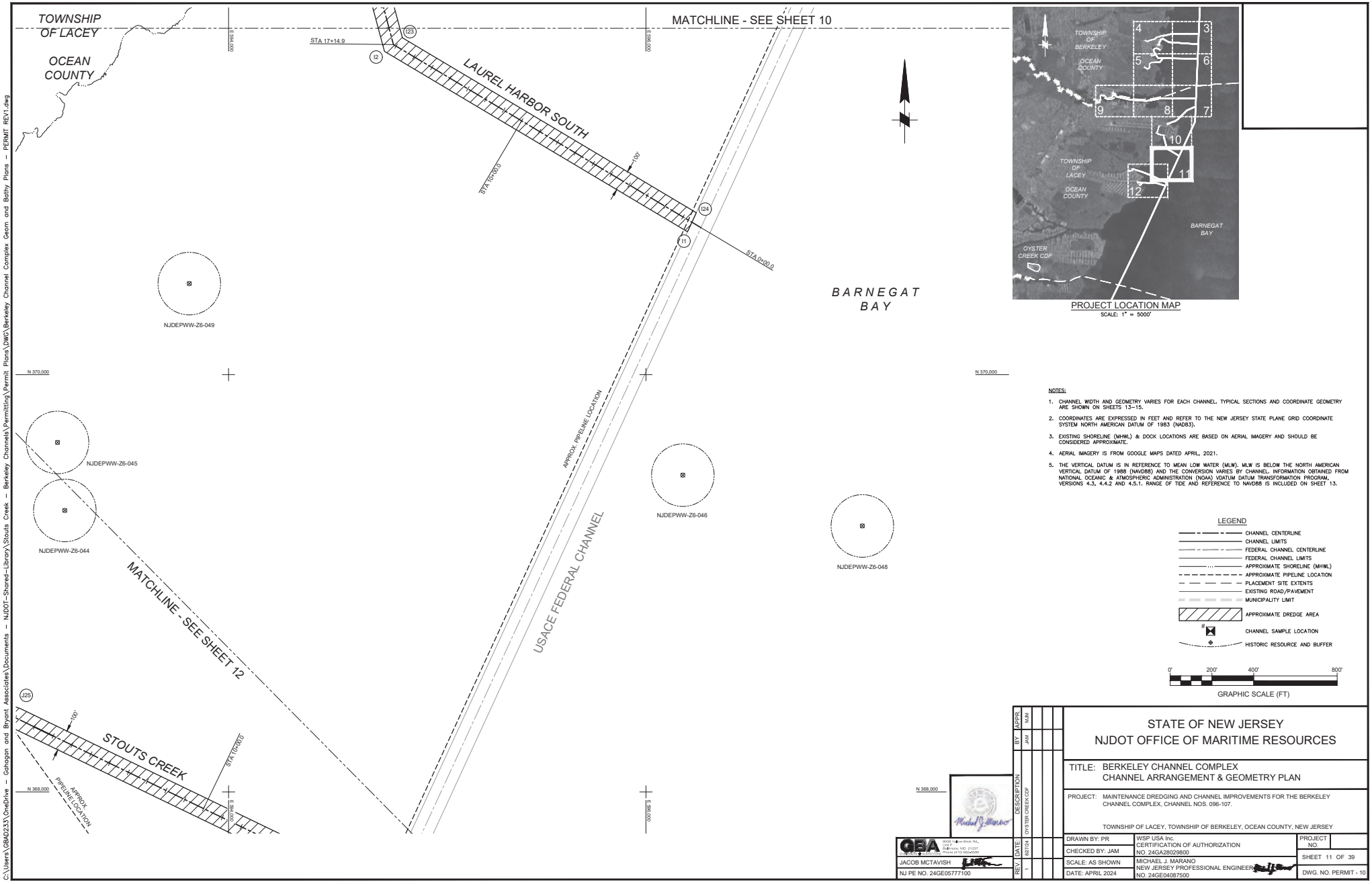

PROJECT LOCATION MAP
SCALE: 1" = 5000'

NOTES:

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- APPROXIMATE SHORELINE (MHWL)
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- EXISTING ROAD/PAVEMENT
- MUNICIPALITY LIMIT
- APPROXIMATE DREDGE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	6/27/24	OYSTER CREEK CDF	JAM	MJM

QBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 11 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 10
DATE: APRIL 2024		

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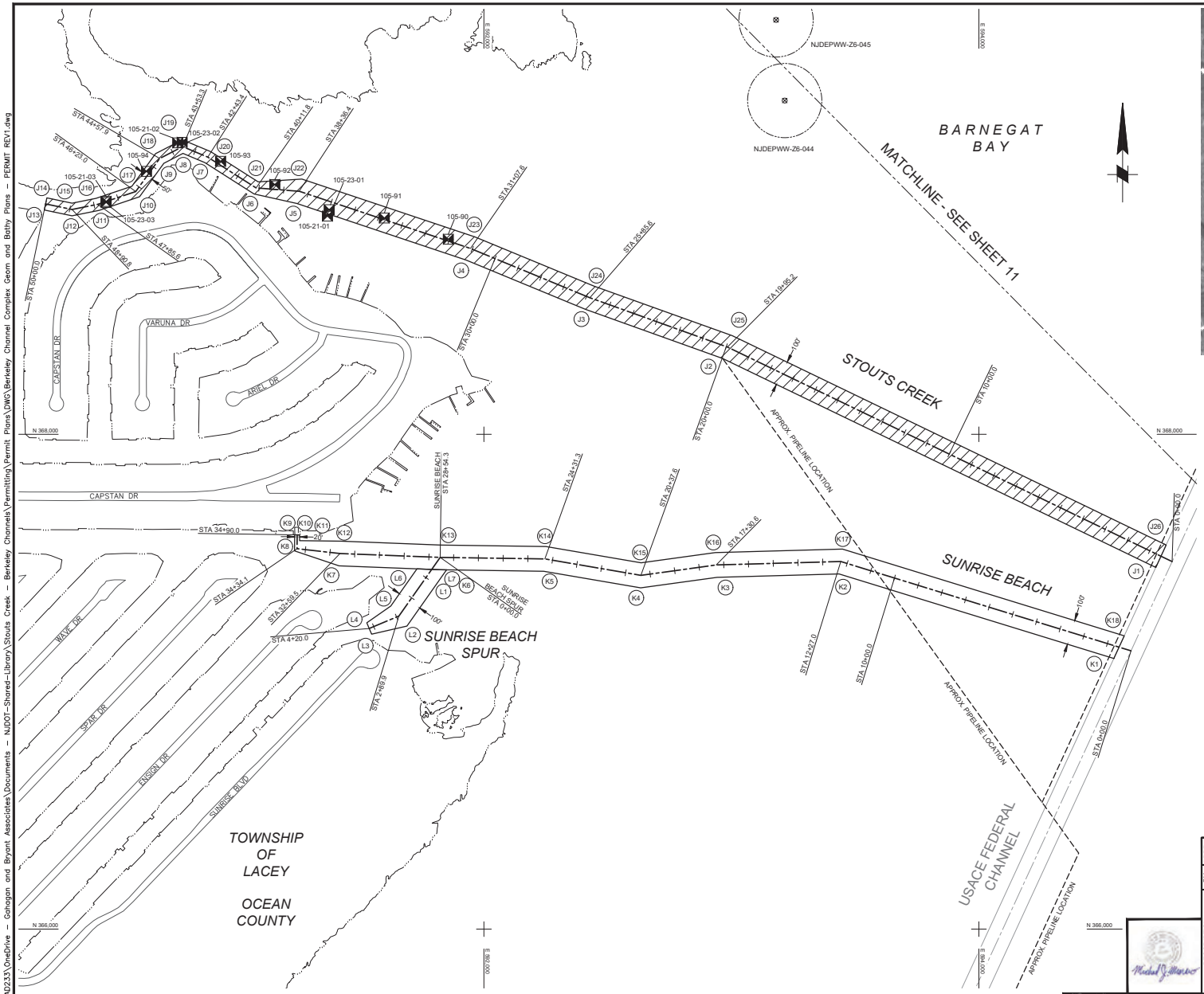

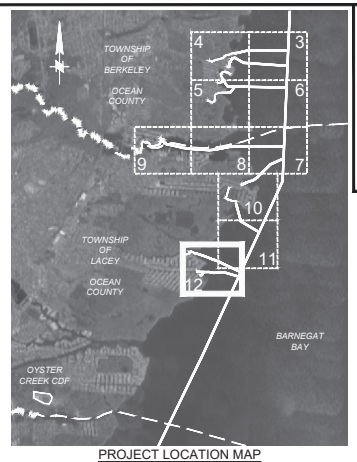

PROJECT LOCATION MAP
SCALE: 1" = 5000'

NOTES:

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- HISTORIC RESOURCE AND BUFFER

0' 200' 400' 800'
GRAPHIC SCALE (FT)

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04087500

PROJECT NO.

SHEET 12 OF 39

DWG. NO. PERMIT - 11

QBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

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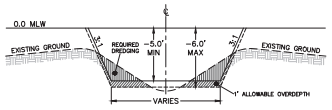
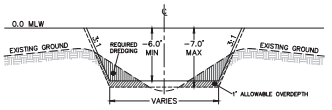
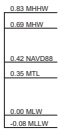


TYPICAL SECTION: CLAMMING CREEK NORTH STA 0+00.0 to 65+40.0
NOT TO SCALE

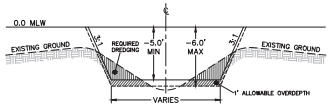
RANGE OF TIDE (FT)
NOT TO SCALE



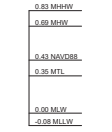
TYPICAL SECTION: CEDAR CREEK STA 0+00.0 to 123+50.0
NOT TO SCALE



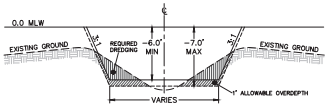
RANGE OF TIDE (FT)
NOT TO SCALE



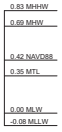
TYPICAL SECTION: CLAMMING CREEK SOUTH STA 0+00.0 to 53+90.0
NOT TO SCALE



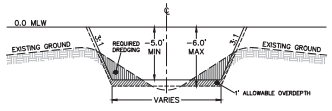
RANGE OF TIDE (FT)
NOT TO SCALE



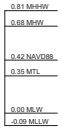
TYPICAL SECTION: CEDAR CREEK SPUR STA 0+00.0 to 4+00.0
NOT TO SCALE



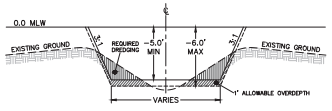
RANGE OF TIDE (FT)
NOT TO SCALE



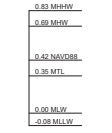
TYPICAL SECTION: SUNRISE BEACH STA 0+00.0 to 34+90.0
NOT TO SCALE



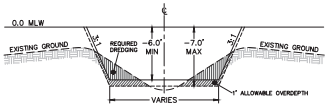
RANGE OF TIDE (FT)
NOT TO SCALE



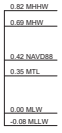
TYPICAL SECTION: WHITES CHANNEL STA 0+00.0 to 14+80.0
NOT TO SCALE



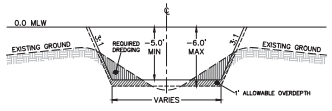
RANGE OF TIDE (FT)
NOT TO SCALE



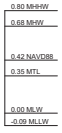
SECTION: LAUREL HARBOR NORTH STA 0+00.0 to 40+40.0
NOT TO SCALE



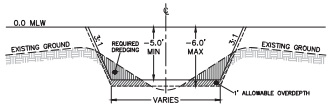
RANGE OF TIDE (FT)
NOT TO SCALE



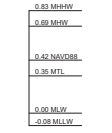
TYPICAL SECTION: SUNRISE BEACH SPUR STA 0+00.0 to 4+20.0
NOT TO SCALE



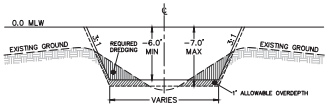
RANGE OF TIDE (FT)
NOT TO SCALE



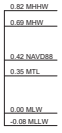
TYPICAL SECTION: BUTLER BLVD ACCESS CHANNEL STA 0+00.0 to 57+40.0
NOT TO SCALE



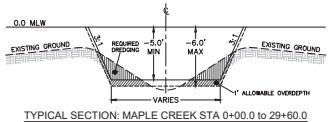
RANGE OF TIDE (FT)
NOT TO SCALE



TYPICAL SECTION: LAUREL HARBOR SOUTH STA 0+00.0 to 51+00.0
NOT TO SCALE

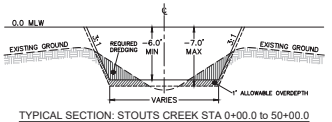


RANGE OF TIDE (FT)
NOT TO SCALE

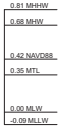


TYPICAL SECTION: MAPLE CREEK STA 0+00.0 to 29+60.0
NOT TO SCALE

RANGE OF TIDE (FT)
NOT TO SCALE



TYPICAL SECTION: STOUTS CREEK STA 0+00.0 to 50+00.0
NOT TO SCALE



RANGE OF TIDE (FT)
NOT TO SCALE

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) AND THE CONVERSION VARIES BY CHANNEL. INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSIONS 4.3, 4.4.2, AND 4.5.1.

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CSP	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL GEOMETRY TEMPLATES AND VERTICAL DATUMS

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

PROJECT NO.
SHEET 13 OF 39
DWG. NO. PERMIT - 12

C:\Users\GBAD233\OneDrive - Gahagan and Bryant Associates\Documents - NJDOT-Shared-Library\Stouts Creek - Berkeley Channels\Permitting\Permit Plans\DWG\Berkeley Channel Complex Geom and Bathy Plans - PERMIT REV1.dwg

096 CLAMMING CREEK NORTH CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	385,345.8	598,600.9
33+10.5	385,315.3	595,290.5
42+82.6	385,107.4	594,341.0
44+86.1	385,112.3	594,137.6
45+72.4	385,089.8	594,054.2
47+22.0	385,022.6	593,920.6
48+31.3	384,983.0	593,818.7
50+98.3	384,928.5	593,557.3
52+05.6	384,871.9	593,466.1
53+48.7	384,757.8	593,379.9
55+31.1	384,691.4	593,210.0
57+00.6	384,639.4	593,048.6
58+94.6	384,593.7	592,860.1
60+17.0	384,548.7	592,746.3
61+70.0	384,510.2	592,598.2
63+20.8	384,428.6	592,471.4
64+97.7	384,490.4	592,305.7
65+40.0	384,514.4	592,270.8

096 CLAMMING CREEK NORTH CHANNEL COORDINATES

POINT	NORTHING	EASTING
A1	385,295.3	598,548.7
A2	385,265.4	595,296.2
A3	385,057.3	594,345.8
A4	385,097.3	594,139.4
A5	385,075.7	594,059.6
A6	385,008.9	593,926.7
A7	384,968.6	593,823.0
A8	384,914.3	593,563.0
A9	384,860.7	593,476.3
A10	384,745.3	593,389.3
A11	384,677.2	593,215.0
A12	384,624.9	593,052.7
A13	384,579.4	592,864.7
A14	384,534.4	592,750.9
A15	384,496.3	592,604.3
A16	384,411.9	592,473.1
A17	384,477.0	592,298.7
A18	384,502.1	592,262.3
A19	384,526.8	592,279.4
A20	384,503.8	592,312.6
A21	384,445.3	592,469.6
A22	384,524.1	592,592.1
A23	384,562.9	592,741.6
A24	384,608.0	592,855.6
A25	384,653.8	593,044.6
A26	384,705.5	593,205.0
A27	384,770.2	593,370.5
A28	384,883.2	593,455.8
A29	384,942.6	593,551.7
A30	384,997.5	593,814.4
A31	385,036.3	593,914.5
A32	385,103.9	594,048.8
A33	385,127.4	594,135.8
A34	385,157.5	594,336.2
A35	385,365.3	595,284.9
A36	385,395.3	598,553.0

096 CLAMMING CREEK NORTH CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
96-21-01	594,909.5	385,177.5
96-21-02	594,064.2	385,095.3
96-21-03	593,393.8	384,797.1
096-23-01	594,923.7	385,233.1
096-23-02	594,066.3	385,098.5
096-23-03	593,396.0	384,795.1
096-90	594,724.4	385,204.0
096-91	594,354.2	385,126.3
096-92	593,851.1	384,995.9
096-93	593,575.7	384,939.9
096-94	593,167.2	384,676.3
096-95	592,865.0	384,587.0
096-96	592,584.8	384,497.0
096-97	592,370.2	384,470.8

097 CLAMMING CREEK SOUTH CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	384,091.3	598,546.7
35+61.7	384,344.8	594,994.1
43+38.8	384,743.3	594,326.9
45+68.6	384,713.4	594,099.1
49+48.3	384,380.8	593,916.1
52+91.1	384,047.7	593,834.4
53+90.0	384,013.3	593,741.7

097 CLAMMING CREEK SOUTH CHANNEL COORDINATES

POINT	NORTHING	EASTING
B1	384,044.9	598,494.7
B2	384,295.8	594,978.6
B3	384,691.5	594,316.2
B4	384,667.2	594,130.7
B5	384,362.4	593,963.1
B6	384,010.1	593,876.7
B7	383,985.2	593,752.2
B8	384,041.4	593,731.3
B9	384,085.4	593,792.2
B10	384,399.1	593,869.1
B11	384,759.7	594,067.5
B12	384,795.1	594,337.6
B13	384,393.8	595,009.5
B14	384,144.9	598,499.0

097 CLAMMING CREEK SOUTH CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
97-21-01	594,495.3	384,717.0
97-21-02	593,823.9	384,190.0
097-23-01	594,425.6	384,678.7
097-23-02	593,821.2	384,192.1
097-90	594,189.5	384,761.5
097-91	594,057.7	384,556.9
097-92	593,876.9	384,412.0
097-93	593,888.8	384,092.6

098 WHITES CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	382819.1	593465.3
1+91.7	382984.0	593367.6
3+33.7	383114.3	593311.2
5+75.0	383326.2	593195.6
7+09.8	383457.2	593227.4
8+21.9	383552.4	593286.6
9+10.2	383594.7	593364.1
10+59.4	383592.6	593513.3
13+05.2	383558.5	593756.7
14+17.5	383484.8	593841.4
14+80.0	383466.4	593901.2

098 WHITES CHANNEL COORDINATES

POINT	NORTHING	EASTING
C1	382,836.7	593,425.8
C2	382,972.6	593,345.2
C3	383,103.4	593,288.7
C4	383,322.7	593,169.1
C5	383,467.0	593,204.1
C6	383,571.2	593,268.9
C7	383,619.7	593,357.9
C8	383,617.6	593,515.2
C9	383,582.2	593,767.5
C10	383,502.6	593,851.4
C11	383,485.5	593,907.1
C12	383,447.3	593,895.3
C13	383,466.9	593,831.5
C14	383,534.7	593,745.9
C15	383,567.6	593,511.4
C16	383,569.6	593,370.3
C17	383,533.6	593,304.4
C18	383,447.4	593,250.8
C19	383,329.7	593,222.2
C20	383,125.3	593,333.6
C21	382,995.3	593,389.9
C22	382,847.1	593,477.8

098 WHITES CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
98-21-01	593,672.9	383,586.5
98-21-02	593,274.5	383,542.9
98-21-03	593,348.4	383,104.2
098-23-01	593,672.7	383,585.8
098-23-02	593,268.1	383,539.7
098-23-03	593,334.7	383,103.5
098-90	593,865.3	383,470.3
098-91	593,462.2	383,595.3
098-92	593,205.6	383,329.7
098-93	593,407.9	382,916.1

099 BUTLER BLVD ACCESS CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	382,331.5	598,470.7
47+58.7	382,456.0	593,713.6
50+54.0	382,694.3	593,539.3
51+99.1	382,819.1	593,465.3
56+52.0	382,729.8	593,020.8
57+40.0	382,740.4	592,933.9

099 BUTLER BLVD ACCESS CHANNEL COORDINATES

POINT	NORTHING	EASTING
D1	382,282.8	598418.5
D2	382,406.6	593687.8
D3	382,666.8	593497.5
D4	382,791.1	593452.9
D5	382,704.5	593021.8
D6	382,715.6	592930.9
D7	382,765.2	592936.9
D8	382,755.1	593019.8
D9	382,847.1	593477.8
D10	382,721.9	593581.1
D11	382,505.3	593739.5
D12	382,382.7	598422.8

100 MAPLE CREEK CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	382,439.7	594,333.0
5+99.0	381,973.1	593,957.5
7+27.7	381,940.8	593,832.9
9+24.6	381,950.7	593,636.3
11+59.4	381,941.6	593,401.6
13+12.0	381,951.8	593,249.4
16+33.8	381,889.6	592,933.6
17+55.9	381,838.6	592,822.7
18+66.5	381,771.7	592,734.6
20+20.4	381,622.6	592,696.4
21+25.7	381,518.9	592,714.6
22+01.0	381,444.5	592,703.4
24+00.4	381,253.1	592,647.2
24+78.2	381,200.1	592,590.3
25+50.4	381,169.4	592,524.9
26+13.4	381,170.9	592,461.9
27+53.7	381,224.5	592,332.3
28+49.1	381,249.5	592,240.3
29+60.0	381,308.1	592,146.1

100 MAPLE CREEK CHANNEL COORDINATES

POINT	NORTHING	EASTING
E1	382,389.1	594,356.5
E2	381,928.8	593,986.1
E3	381,890.5	593,838.0
E4	381,925.6	593,636.2
E5	381,916.5	593,401.3
E6	381,936.7	593,250.3
E7	381,875.2	592,938.3
E8	381,825.7	592,830.5
E9	381,762.9	592,747.8
E10	381,622.0	592,711.7
E11	381,519.1	592,729.8
E12	381,441.3	592,718.1
E13	381,245.0	592,660.4
E14	381,187.5	592,598.8
E15	381,154.3	592,528.1
E16	381,155.9	592,458.8
E17	381,210.3	592,327.5
E18	381,235.6	592,234.2
E19	381,295.3	592,138.1
E20	381,320.8	592,154.0
E21	381,263.4	592,246.3
E22	381,238.7	592,337.2
E23	381,185.8	592,465.1
E24	381,184.5	592,521.8
E25	381,212.7	592,581.8
E26	381,261.3	592,633.9
E27	381,447.7	592,688.7
E28	381,518.8	592,699.4
E29	381,623.2	592,681.0
E30	381,780.5	592,721.4
E31	381,851.5	592,815.0
E32	381,904.0	592,929.0
E33	381,966.9	593,248.4
E34	381,966.6	593,402.0
E35	381,975.7	593,636.4
E36	381,991.1	593,827.8
E37	382,017.3	593,928.9
E38	382,392.4	594,230.7

101 CEDAR CREEK CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	377,614.6	598,266.8
43+22.4	377,582.1	593,944.6
56+27.1	377,341.6	592,662.2
60+82.6	377,307.0	592,208.0
76+00.6	377,419.1	590,694.2
81+79.4	377,500.7	590,121.1
95+45.2	377,800.3	588,788.6
99+22.6	378,026.0	588,486.1
100+67.9	378,008.9	588,341.8
102+22.5	377,859.1	588,303.4
102+65.3	377,822.7	588,281.2
103+25.7	377,786.2	588,233.0
105+32.0	377,707.3	588,042.3
107+22.2	377,667.9	587,856.3
108+82.0	377,611.0	587,707.0
109+57.0	377,613.7	587,632.1
110+55.0	377,652.7	587,542.1
113+52.4	377,900.2	587,377.3
114+30.8	377,928.3	587,304.0
116+52.8	377,928.9	587,082.1
117+30.9	377,965.4	587,013.0
117+69.8	377,968.9	586,974.3
118+55.4	377,948.9	586,891.1
119+07.2	377,912.4	586,854.4
120+02.6	377,824.2	586,817.9
123+01.6	377,525.3	586,826.4
123+50.0	377,481.0	586,807.0

101 CEDAR CREEK CHANNEL COORDINATES

POINT	NORTHING	EASTING
F1	377,564.2	598,214.6
F2	377,532.2	593,949.4
F3	377,292.0	592,668.7
F4	377,256.9	592,208.1
F5	377,369.4	590,688.8
F6	377,451.5	590,112.1
F7	377,753.9	588,767.2
F8	377,974.0	588,472.2
F9	377,986.1	588,361.8
F10	377,849.3	588,326.7
F11	377,805.6	588,300.1
F12	377,764.3	588,245.6
F13	377,683.3	588,049.8
F14	377,643.8	587,863.4
F15	377,585.8	587,711.1
F16	377,588.9	587,626.4
F17	377,632.7	587,525.4
F18	377,879.7	587,360.9
F19	377,903.3	587,299.4
F20	377,903.9	587,075.8
F21	377,941.0	587,005.8
F22	377,943.6	586,976.1
F23	377,926.3	586,903.7
F24	377,898.2	586,875.6
F25	377,819.6	586,843.0
F26	377,520.4	586,851.5
F27	377,471.0	586,829.9
F28	377,491.0	586,784.1
F29	377,530.2	586,801.2
F30	377,828.9	586,792.8
F31	377,926.6	586,833.2
F32	377,971.6	586,878.4
F33	377,994.1	586,972.4
F34	377,989.9	587,020.3
F35	377,953.9	587,088.3
F36	377,953.3	587,308.7
F37	377,920.7	587,393.7
F38	377,672.7	587,558.9
F39	377,638.5	587,637.7
F40	377,636.1	587,702.8
F41	377,691.9	587,849.2
F42	377,731.3	588,034.9
F43	377,808.1	588,220.5
F44	377,839.7	588,262.3
F45	377,869.0	588,280.2
F46	378,031.7	588,321.9
F47	378,078.0	588,500.1
F48	377,846.8	588,810.0
F49	377,549.9	590,130.2
F50	377,468.9	590,699.6
F51	377,357.2	592,207.9
F52	377,391.3	592,655.7
F53	377,632.1	593,939.8
F54	377,664.3	598,218.9

101 CEDAR CREEK CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
101-21-01	592,455.5	377,321.8
101-21-02	591,186.1	377,415.7
101-21-03	588,559.1	377,857.5
101-21-04	587,871.7	377,592.0
101-21-05	586,953.5	377,907.3
101-23-01	592,466.4	377,314.4
101-23-02	591,186.4	377,417.9
101-23-03	588,810.1	377,823.0
101-23-04	587,846.5	377,612.2
101-80	594,661.2	377,590.3
101-81	594,247.2	377,577.8
101-82	593,800.5	377,553.5
101-83	593,403.7	377,495.5
101-84	593,082.1	377,416.8
101-85	592,825.3	377,405.5
101-86	591,967.5	377,324.7
101-87	591,556.3	377,355.4
101-88	590,736.5	377,403.3
101-89	590,302.0	377,499.2
101-90	589,891.7	377,554.3
101-91	589,479.1	377,642.8
101-92	589,023.6	377,769.1
101-93	588,702.3	377,912.9
101-94	588,419.5	378,006.7

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA ENGINEERS ★ SURVEYORS
9008 Yellow Brick Rd.
Unit P
Baltimore, MD 21237
Phone (410) 682-5595

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION
NO. 24GA28029800

MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER
NO. 24GE04087500

PROJECT NO.

SHEET 14 OF 39

DWG. NO. PERMIT - 13

102 CEDAR CREEK SPUR CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	378,026.0	588,486.1
1+49.3	378,171.7	588,518.5
2+92.9	378,220.4	588,383.3
4+00.0	378,280.2	588,294.5

102 CEDAR CREEK SPUR CHANNEL COORDINATES

POINT	NORTHING	EASTING
G1	378,063.2	588,443.2
G2	378,139.6	588,460.1
G3	378,175.4	588,360.5
G4	378,238.7	588,266.5
G5	378,321.6	588,322.4
G6	378,265.3	588,406.0
G7	378,203.9	588,576.8
G8	378,046.7	588,541.9
G9	378,078.0	588,500.1

102 CEDAR CREEK SPUR CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
102-21-01	588,454.2	378,197.9
102-90	588,543.3	378,122.1
102-91	588,451.9	378,193.3

103 LAUREL HARBOR NORTH CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	376,631.6	598,224.4
11+04.7	376,190.9	597,211.4
26+41.9	375,117.9	596,110.6
30+26.7	374,897.5	595,795.2
35+74.5	374,721.7	595,276.4
37+90.3	374,629.5	595,081.3
39+78.2	374,564.7	594,904.9
40+40.0	374,512.5	594,871.8

103 LAUREL HARBOR NORTH CHANNEL COORDINATES

POINT	NORTHING	EASTING
H1	376,553.9	598,171.0
H2	376,148.7	597,239.8
H3	375,079.2	596,142.6
H4	374,852.4	595,818.0
H5	374,675.2	595,295.1
H6	374,583.3	595,100.6
H7	374,523.6	594,938.0
H8	374,499.1	594,893.0
H9	374,525.8	594,850.7
H10	374,605.8	594,871.7
H11	374,675.6	595,061.9
H12	374,768.1	595,257.6
H13	374,942.5	595,772.4
H14	375,156.5	596,078.6
H15	376,233.1	597,183.1
H16	376,665.0	598,175.8

103 LAUREL HARBOR NORTH CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
103-21-01	596,119.5	375,227.9
103-21-02	595,269.4	374,735.6
103-23-01	596,079.1	375,145.8
103-23-02	595,267.5	374,739.4
103-90	596,768.5	375,755.1
103-91	596,461.5	375,452.7
103-92	596,174.7	375,151.9
103-93	595,887.6	374,930.7
103-94	595,565.1	374,848.5
103-95	595,097.1	374,590.6
103-96	594,928.5	374,601.0

104 LAUREL HARBOR SOUTH CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	370,704.7	596,263.5
17+14.9	371,582.1	594,790.1
31+03.1	372,923.1	594,431.4
33+99.2	373,211.4	594,363.6
34+98.9	373,227.4	594,265.1
36+28.1	373,217.1	594,136.4
37+52.3	373,248.2	594,016.1
41+23.7	373,389.3	593,672.6
41+79.9	373,422.6	593,627.3
42+47.2	373,485.0	593,602.0
51+00.0	374,302.9	593,843.3

104 LAUREL HARBOR SOUTH CHANNEL COORDINATES

POINT	NORTHING	EASTING
I1	370,684.8	596,199.3
I2	371,549.6	594,747.0
I3	372,911.0	594,382.9
I4	373,012.9	594,389.7
I5	373,193.8	594,347.1
I6	373,207.3	594,264.3
I7	373,196.9	594,134.6
I8	373,229.2	594,009.7
I9	373,371.7	593,662.7
I10	373,409.9	593,610.9
I11	373,483.9	593,580.8
I12	374,308.6	593,824.1
I13	374,297.3	593,862.5
I14	373,486.0	593,623.1
I15	373,435.4	593,643.7
I16	373,406.8	593,682.5
I17	373,267.2	594,022.4
I18	373,237.3	594,138.1
I19	373,247.5	594,265.9
I20	373,229.0	594,380.0
I21	373,022.1	594,428.6
I22	372,935.3	594,479.8
I23	371,614.7	594,833.1
I24	370,776.1	596,241.4

104 LAUREL HARBOR SOUTH CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
104-21-01	594,360.6	373,131.5
104-21-02	593,874.6	373,315.5
104-21-03	593,673.2	373,810.5
104-23-01	594,375.7	373,082.3
104-23-02	593,870.1	373,316.4
104-23-03	593,685.8	373,792.9
104-90	594,578.8	372,413.6
104-91	594,533.2	372,710.5
104-92	594,424.7	372,959.5
104-93	594,146.1	373,236.6
104-94	593,605.8	373,477.4
104-95	593,779.9	374,136.8

105 STOUTS CREEK CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	367,485.6	594,780.8
19+95.2	368,352.8	592,983.9
25+85.6	368,552.1	592,428.1
31+07.6	368,751.3	591,945.7
38+36.4	368,982.4	591,254.5
40+11.8	368,996.1	591,079.6
42+43.4	369,120.6	590,884.3
43+53.3	369,163.1	590,782.9
44+57.9	369,115.1	590,690.1
46+23.0	368,981.4	590,593.1
47+85.6	368,929.6	590,439.0
48+90.8	368,908.9	590,335.9
50+00.0	368,931.4	590,229.0

105 STOUTS CREEK CHANNEL COORDINATES

POINT	NORTHING	EASTING
J1	367,461.9	594,714.8
J2	368,306.6	592,964.6
J3	368,505.4	592,410.1
J4	368,704.4	591,928.2
J5	368,933.1	591,244.5
J6	368,971.6	591,071.4
J7	369,098.3	590,872.7
J8	369,135.5	590,784.0
J9	369,095.6	590,706.8
J10	368,960.3	590,608.6
J11	368,905.4	590,445.5
J12	368,883.4	590,335.8
J13	368,906.9	590,223.9
J14	368,955.9	590,234.1
J15	368,934.5	590,336.0
J16	368,953.8	590,432.6
J17	369,002.6	590,577.5
J18	369,134.6	590,673.3
J19	369,190.7	590,781.8
J20	369,142.8	590,896.0
J21	369,020.5	591,087.7
J22	369,031.8	591,264.5
J23	368,798.2	591,963.2
J24	368,598.7	592,446.1
J25	368,399.0	593,003.3
J26	367,552.7	594,756.6

105 STOUTS CREEK CHANNEL SAMPLE LOCATION COORDINATES

BORING	NORTHING	EASTING
105-21-01	591,367.9	368,882.0
105-21-02	590,763.0	369,178.2
105-21-03	590,474.0	368,941.3
105-23-01	591,375.0	368,908.0
105-23-02	590,780.5	369,180.5
105-23-03	590,473.7	368,937.4
105-90	591,856.0	368,788.6
105-91	591,597.9	368,874.4
105-92	591,155.1	369,009.8
105-93	590,936.0	369,103.5
105-94	590,636.5	369,062.9

106 SUNRISE BEACH CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	367,124.8	594,614.6
12+27.0	367,485.9	593,441.9
17+30.6	367,471.9	592,938.5
20+37.6	367,429.9	592,634.4
24+31.3	367,496.4	592,246.3
28+54.3	367,502.5	591,823.4
32+59.5	367,518.2	591,418.4
34+34.1	367,537.7	591,245.0
34+90.0	367,593.6	591,245.5

106 SUNRISE BEACH CHANNEL COORDINATES

POINT	NORTHING	EASTING
K1	367,093.8	594,545.3
K2	367,435.7	593,435.0
K3	367,422.0	592,942.6
K4	367,379.4	592,833.5
K5	367,446.4	592,241.7
K6	367,452.5	591,822.1
K7	367,468.3	591,414.7
K8	367,528.8	591,234.9
K9	367,593.7	591,235.5
K10	367,593.5	591,255.5
K11	367,570.0	591,255.3
K12	367,568.1	591,422.2
K13	367,552.5	591,824.7
K14	367,546.3	592,250.9
K15	367,480.5	592,635.2
K16	367,521.8	592,934.4
K17	367,536.1	593,448.7
K18	367,185.4	594,587.5

107 SUNRISE BEACH SPUR CHANNEL CENTERLINE COORDINATES

STATION	NORTHING	EASTING
0+00.0	367,502.5	591,823.4
2+89.9	367,265.4	591,656.5
4+20.0	367,215.1	591,536.5

107 SUNRISE BEACH SPUR CHANNEL COORDINATES

POINT	NORTHING	EASTING
L1	367,452.1	591,849.1
L2	367,224.9	591,689.1
L3	367,192.0	591,546.2
L4	367,238.1	591,526.9
L5	367,306.0	591,623.9
L6	367,456.1	591,729.6
L7	367,452.5	591,822.1

BERKELEY CHANNEL COMPLEX HISTORIC RESOURCE COORDINATES

POINT	NORTHING	EASTING	BUFFER RADIUS
NJDEPWW-Z6-038	376,154.0	591,099.7	150'
NJDEPWW-Z6-039	376,094.3	591,108.4	150'
NJDEPWW-Z6-040	376,968.8	594,992.3	150'
NJDEPWW-Z6-044	369,349.2	593,215.4	150'
NJDEPWW-Z6-045	369,675.0	593,180.4	150'
NJDEPWW-Z6-046	369,518.3	596,176.8	150'
NJDEPWW-Z6-048	369,274.9	597,037.0	150'
NJDEPWW-Z6-049	370,436.3	593,811.9	150'
NJDEPWW-Z6-060	385,153.8	594,349.9	150'
NJDEPWW-Z6-068	382,007.3	593,243.0	150'
NJDEPWW-Z6-072	376,161.3	597,274.8	150'
NJDEPWW-Z6-073	375,094.1	596,063.9	150'

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REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CSP	JAM	MJM

GBA 9000 Midtown Blvd. No., Unit P, Baltimore, MD 21237, Phone (410) 582-9200

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

PROJECT NO.

SHEET 15 OF 39

DWG. NO. PERMIT - 14

LEGEND

MUNICIPALITY LIMIT

0' 1,000' 2,000' 4,000'

GRAPHIC SCALE (FT)

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CSF	JAM	MJM

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
BATHYMETRY PLAN SHEET OVERVIEW

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 16 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 15
DATE: APRIL 2024		

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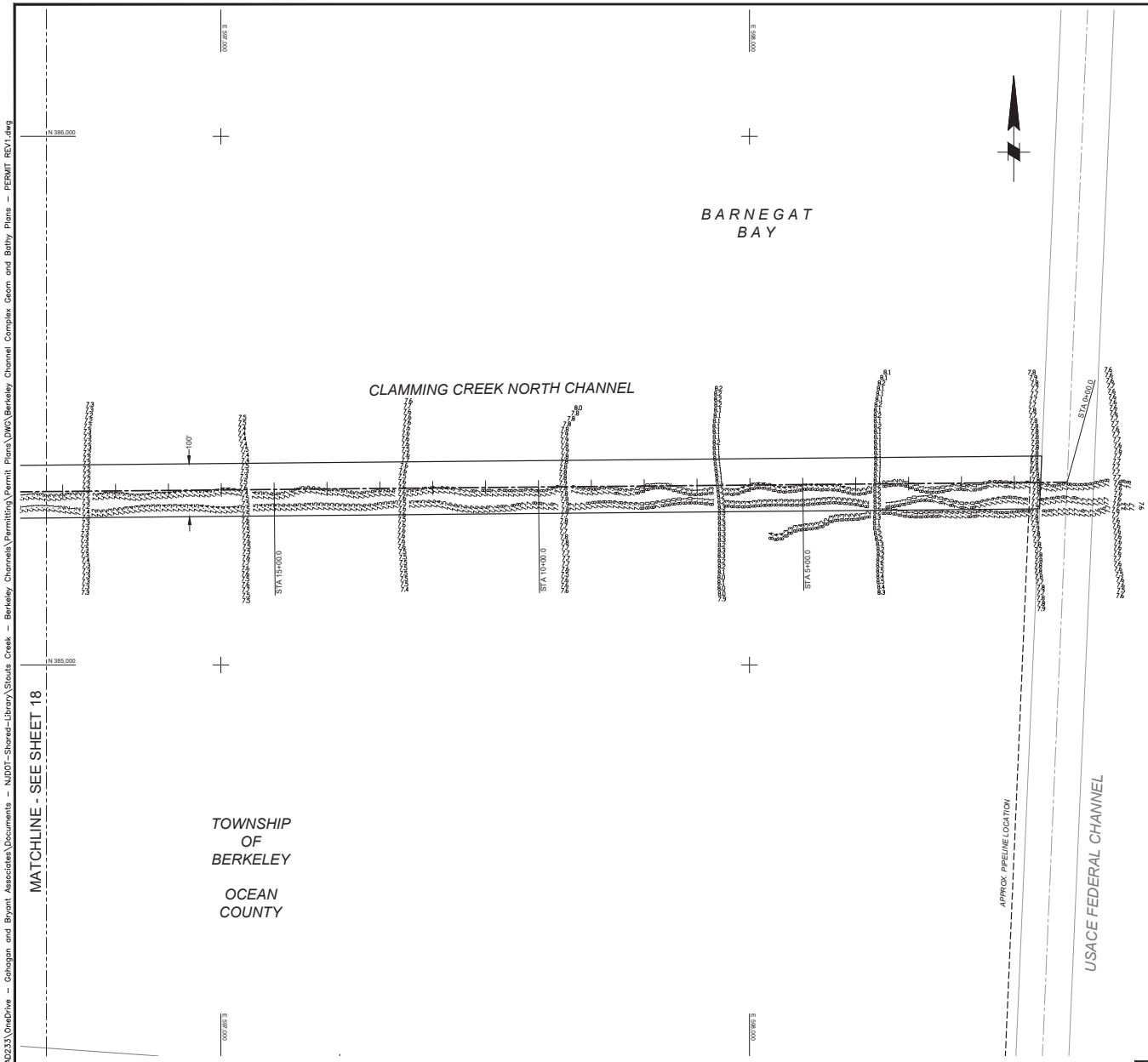
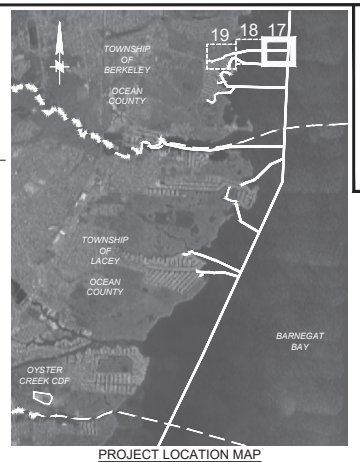




PROJECT LOCATION MAP
SCALE: 1" = 5000'

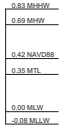
	CLAMMING CREEK NORTH 0+00.0 to 65+40.0
TEMPLATE (-5 MLW)	10,770
OVERDEPTH (-6 MLW)	8,010
TOTAL (CY)	18,780

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 02, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. 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.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. −5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. −6 & −5 MLW)



RANGE OF TIDE (FT)
NOT TO SCALE

GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK NORTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 17 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 16
DATE: APRIL 2024		

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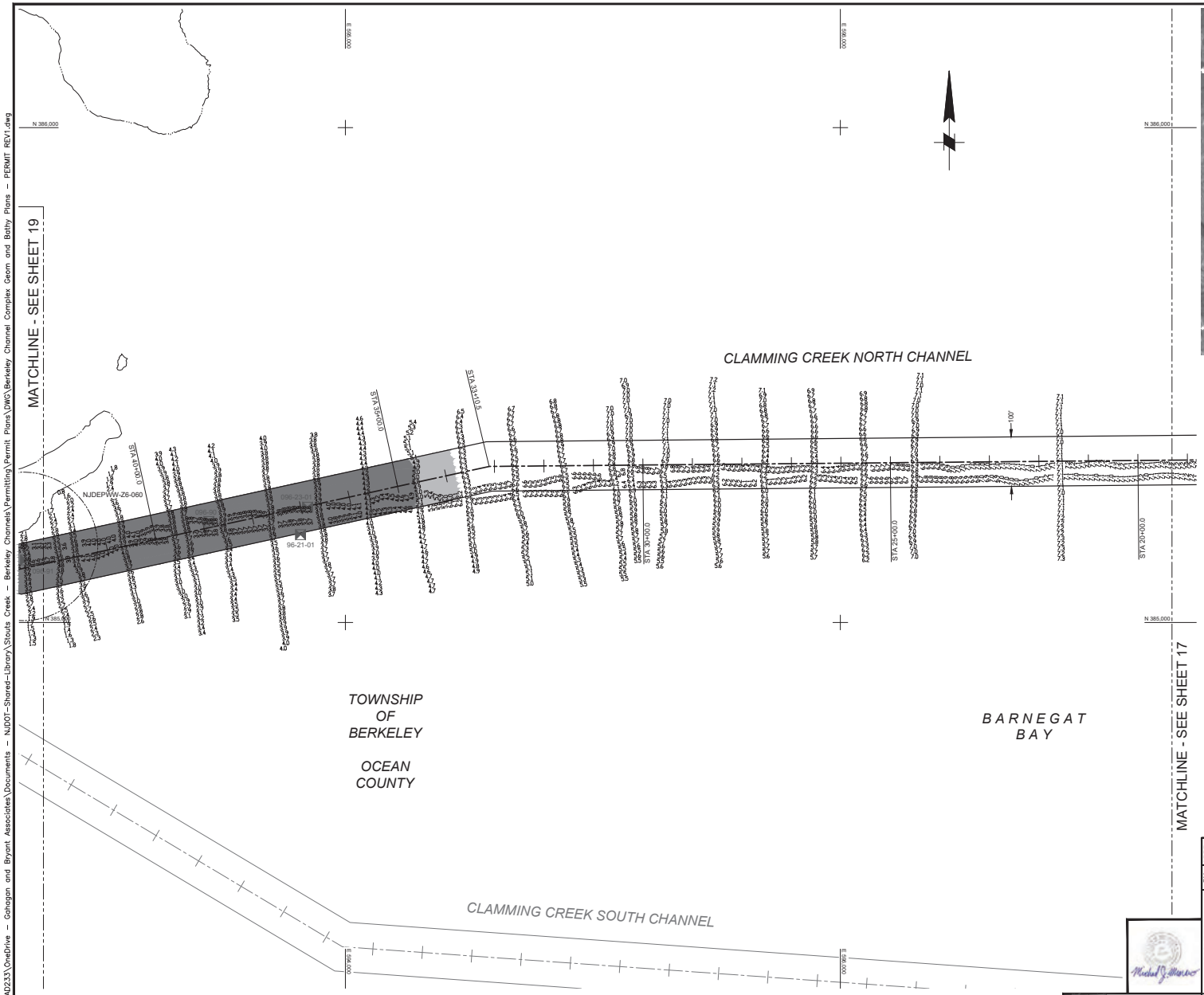
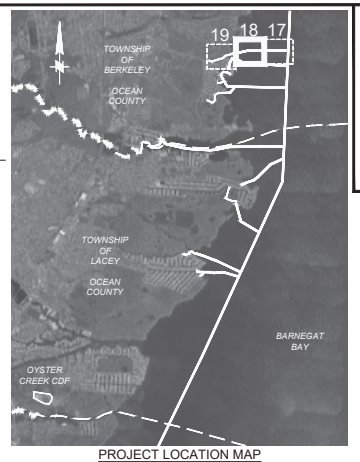




PROJECT LOCATION MAP
SCALE: 1" = 5000'

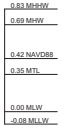
	CLAMMING CREEK NORTH 0+00.0 to 65+40.0
TEMPLATE (-5 MLW)	10,770
OVERDEPTH (-6 MLW)	8,010
TOTAL (CY)	18,780

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 02, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. 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.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. -5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)



RANGE OF TIDE (FT)
NOT TO SCALE

GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK NORTH CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 18 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 17	
DATE: APRIL 2024			

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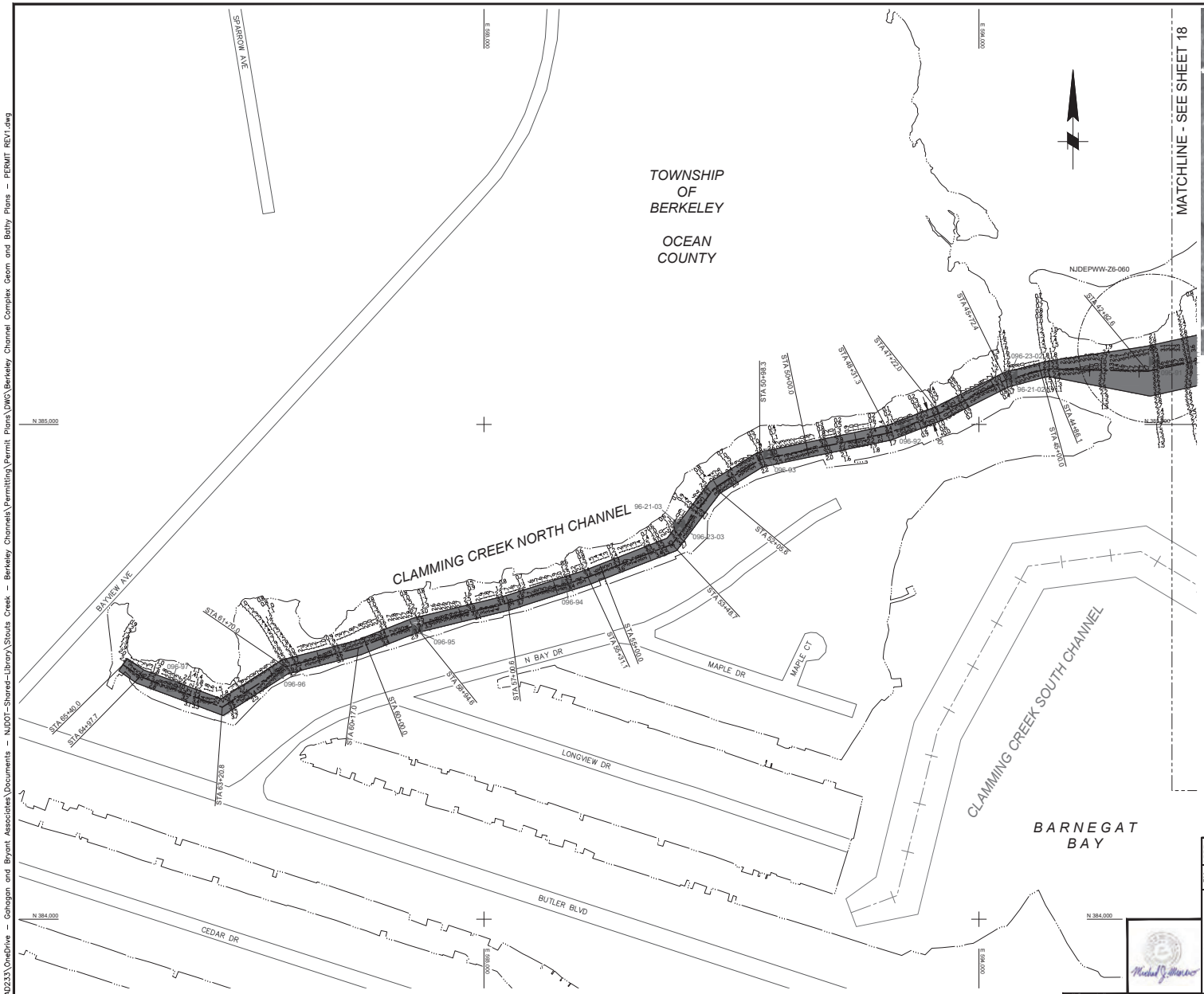

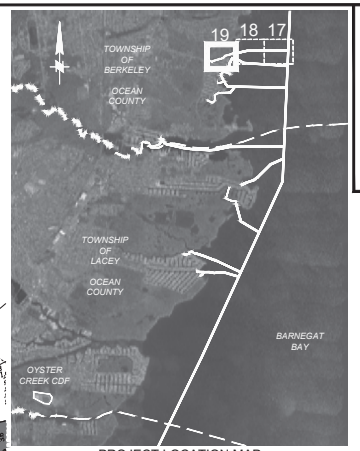

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CLAMMING CREEK NORTH 0+00.0 to 65+40.0
TEMPLATE (-5 MLW)	10,770
OVERDEPTH (-6 MLW)	8,010
TOTAL (CY)	18,780

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. −5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. −6 & −5 MLW)

RANGE OF TIDE (FT)
NOT TO SCALE

0.83 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

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

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK NORTH CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 19 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 18	
DATE: APRIL 2024			

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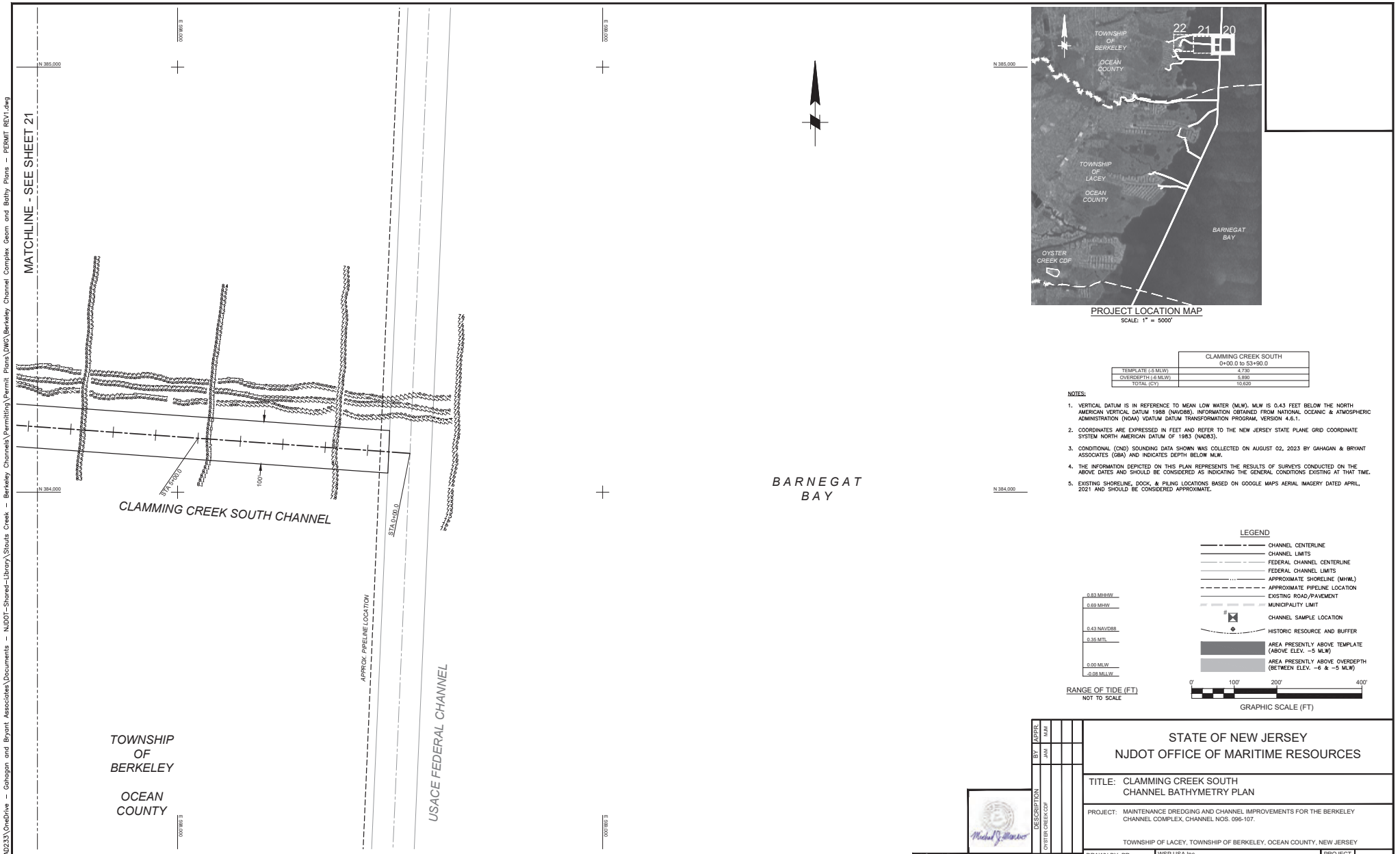

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CLAMMING CREEK SOUTH 0+00.0 to 53+90.0
TEMPLATE (-5 MLW)	4,730
OVERDEPTH (-6 MLW)	5,890
TOTAL (CY)	10,620

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.43 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. −5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. −6 & −5 MLW)

0.83 MHHW
0.69 MHW
0.43 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK SOUTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 20 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 19
DATE: APRIL 2024		

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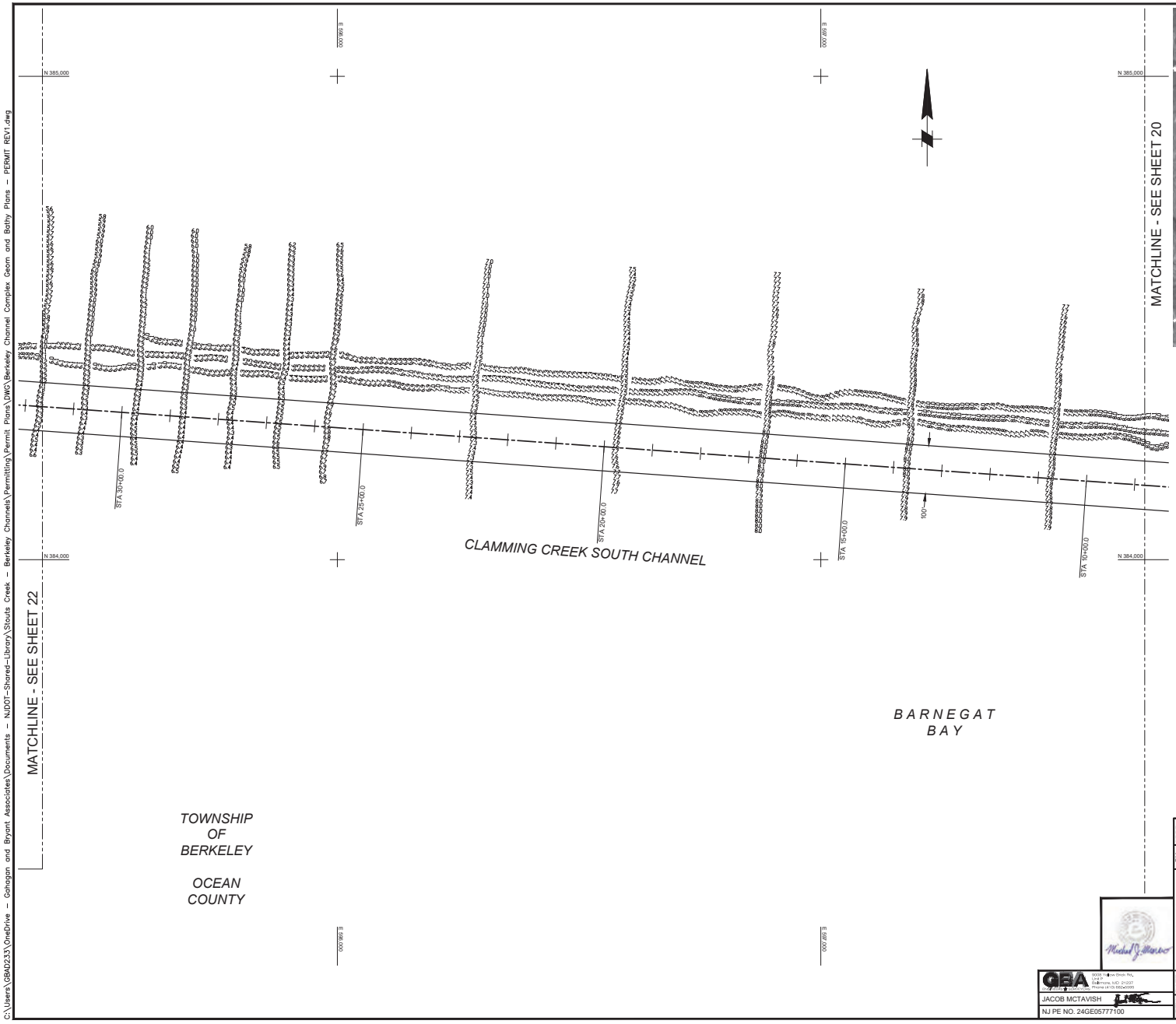

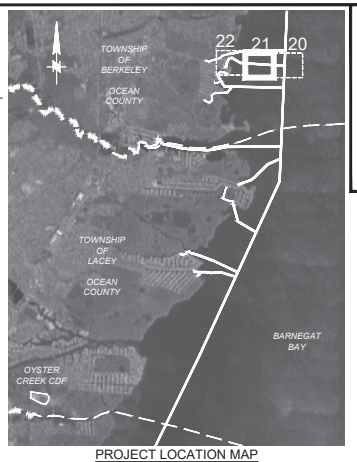

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CLAMMING CREEK SOUTH 0+00.0 to 53+90.0
TEMPLATE (-5 MLW)	4,730
OVERDEPTH (-6 MLW)	5,890
TOTAL (CY)	10,620

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.43 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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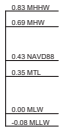

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. -5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -6 & -5 MLW)

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

TOWNSHIP OF BERKELEY
OCEAN COUNTY

BARNEGAT BAY

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK SOUTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 21 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 20	
DATE: APRIL 2024			

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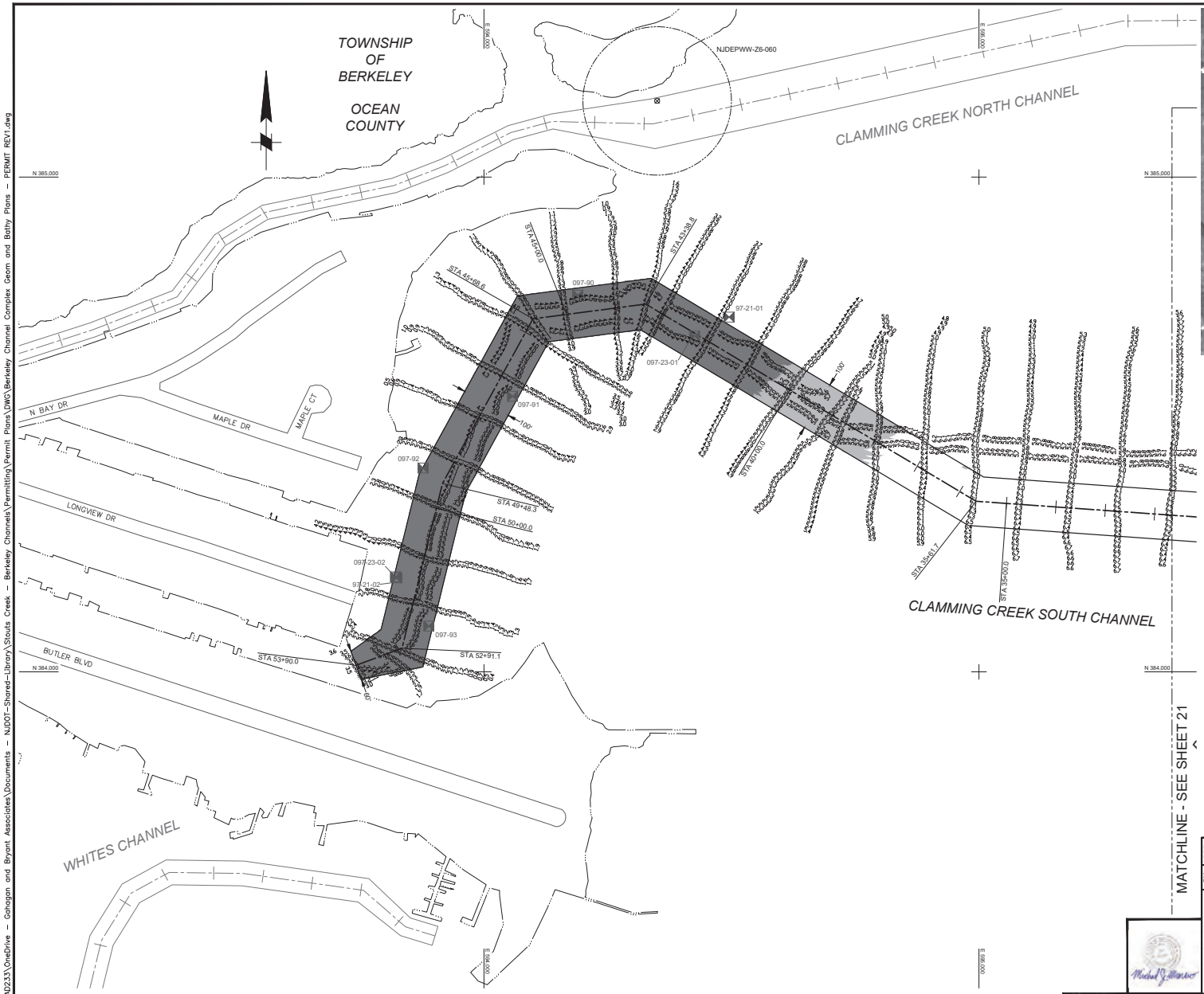

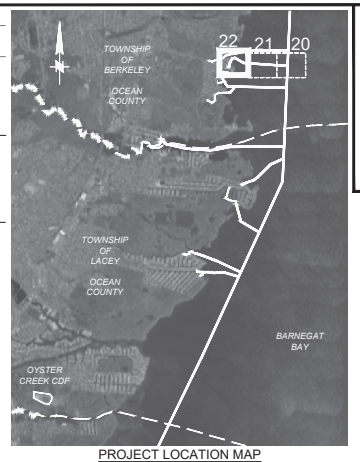

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CLAMMING CREEK SOUTH 0+00.0 to 53+90.0
TEMPLATE (-5 MLW)	4,730
OVERDEPTH (-6 MLW)	5,890
TOTAL (CY)	10,620

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.43 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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4. 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.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. −5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. −6 & −5 MLW)

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

MATCHLINE - SEE SHEET 21

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CLAMMING CREEK SOUTH CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 22 OF 39	
SCALE: AS SHOWN			
DATE: APRIL 2024		DWG. NO. PERMIT - 21	

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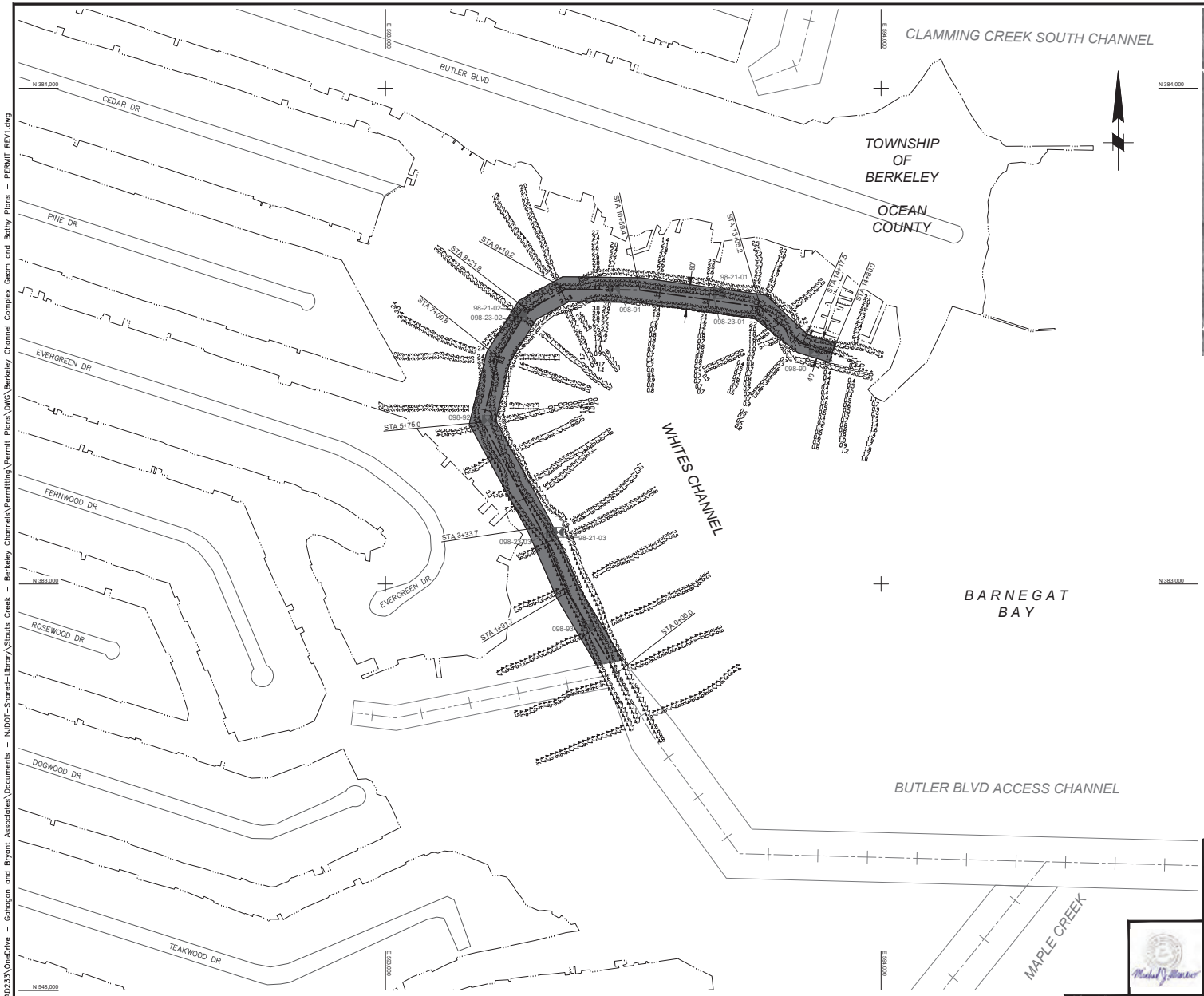

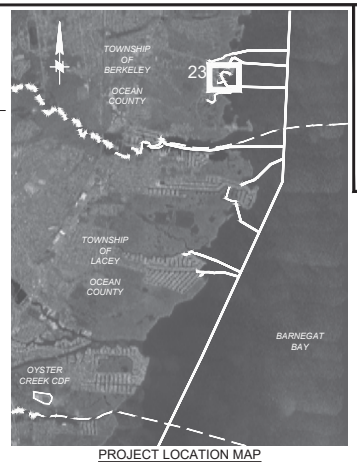

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	WHITES CHANNEL 0+00.0 to 14+80.0
TEMPLATE (-5 MLW)	4,190
OVERDEPTH (-6 MLW)	3,420
TOTAL (CY)	7,610

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON JULY 31, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. 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.
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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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. −5 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. −6 & −5 MLW)

0.83 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: WHITES CHANNEL
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 23 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 22	
DATE: APRIL 2024			

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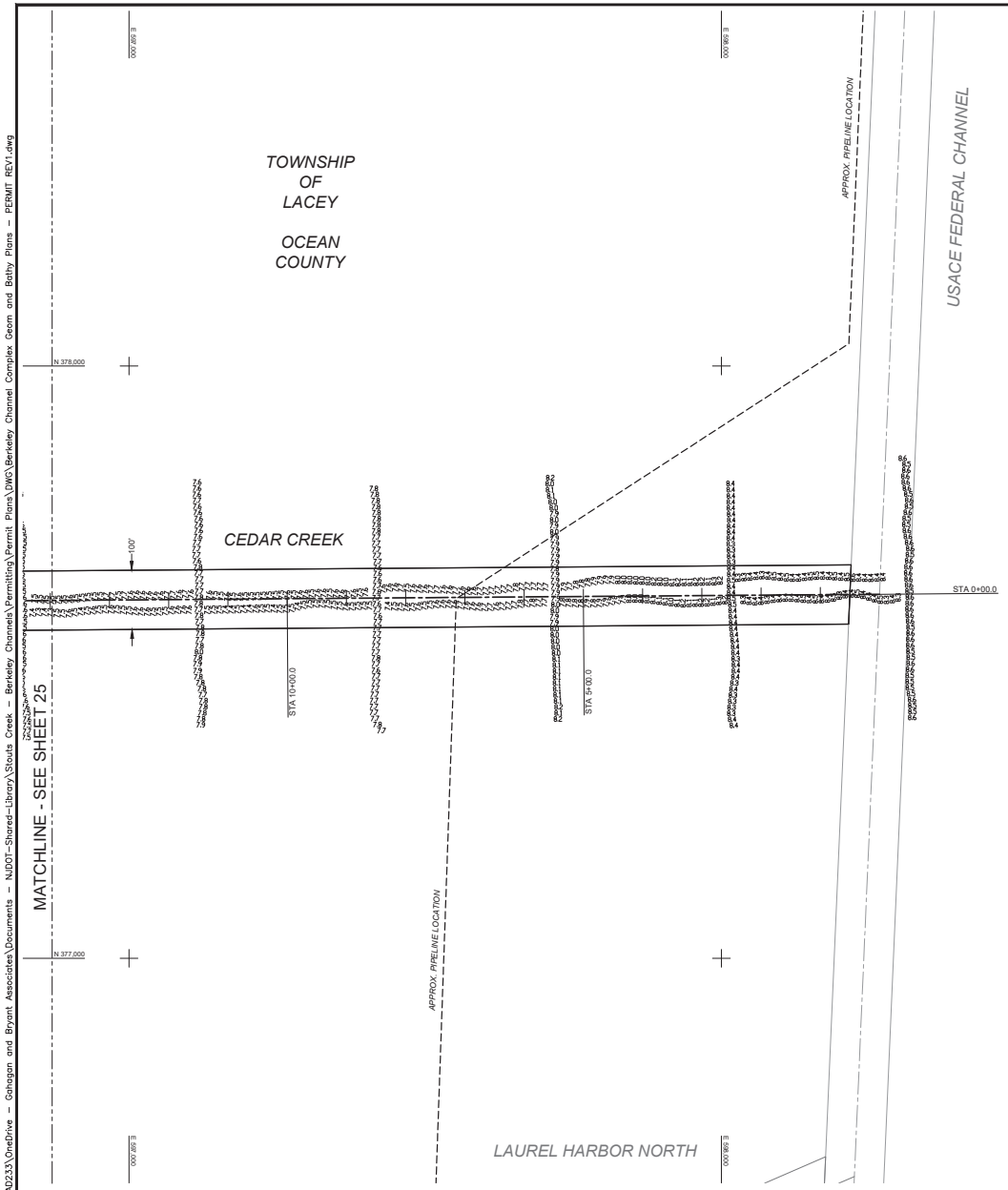

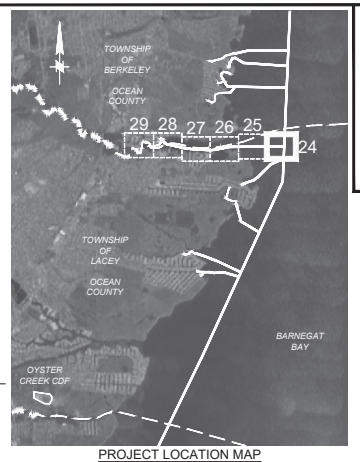

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

0.83 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 24 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 23	
DATE: APRIL 2024			

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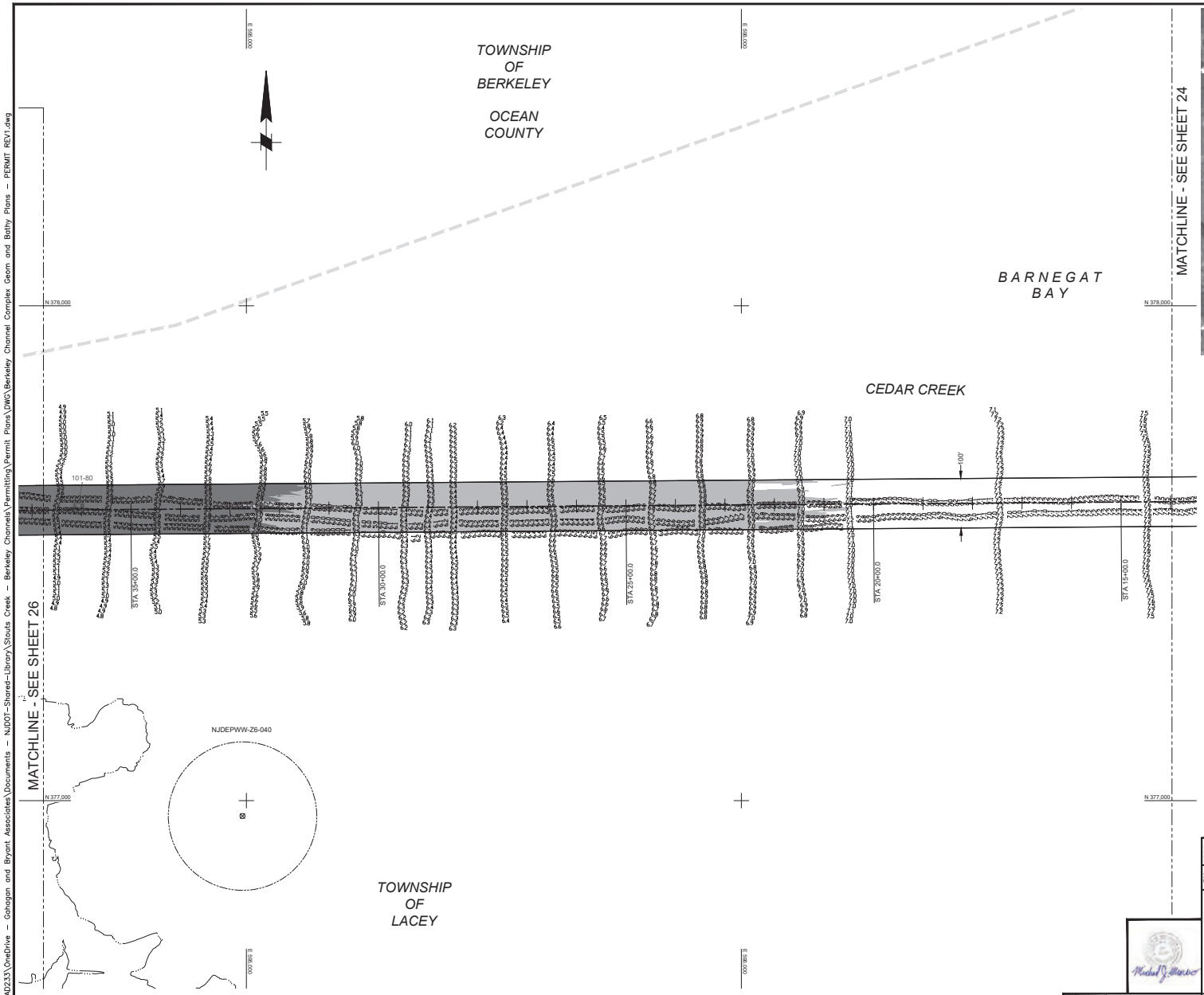

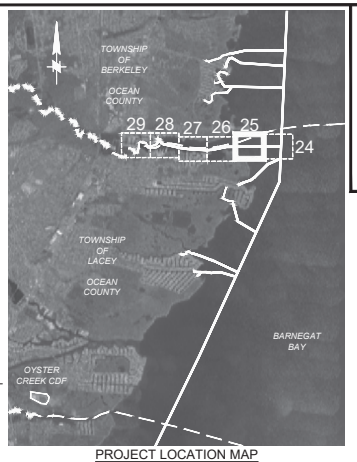

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON MAY 24–25, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
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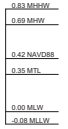

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 25 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 24
DATE: APRIL 2024		

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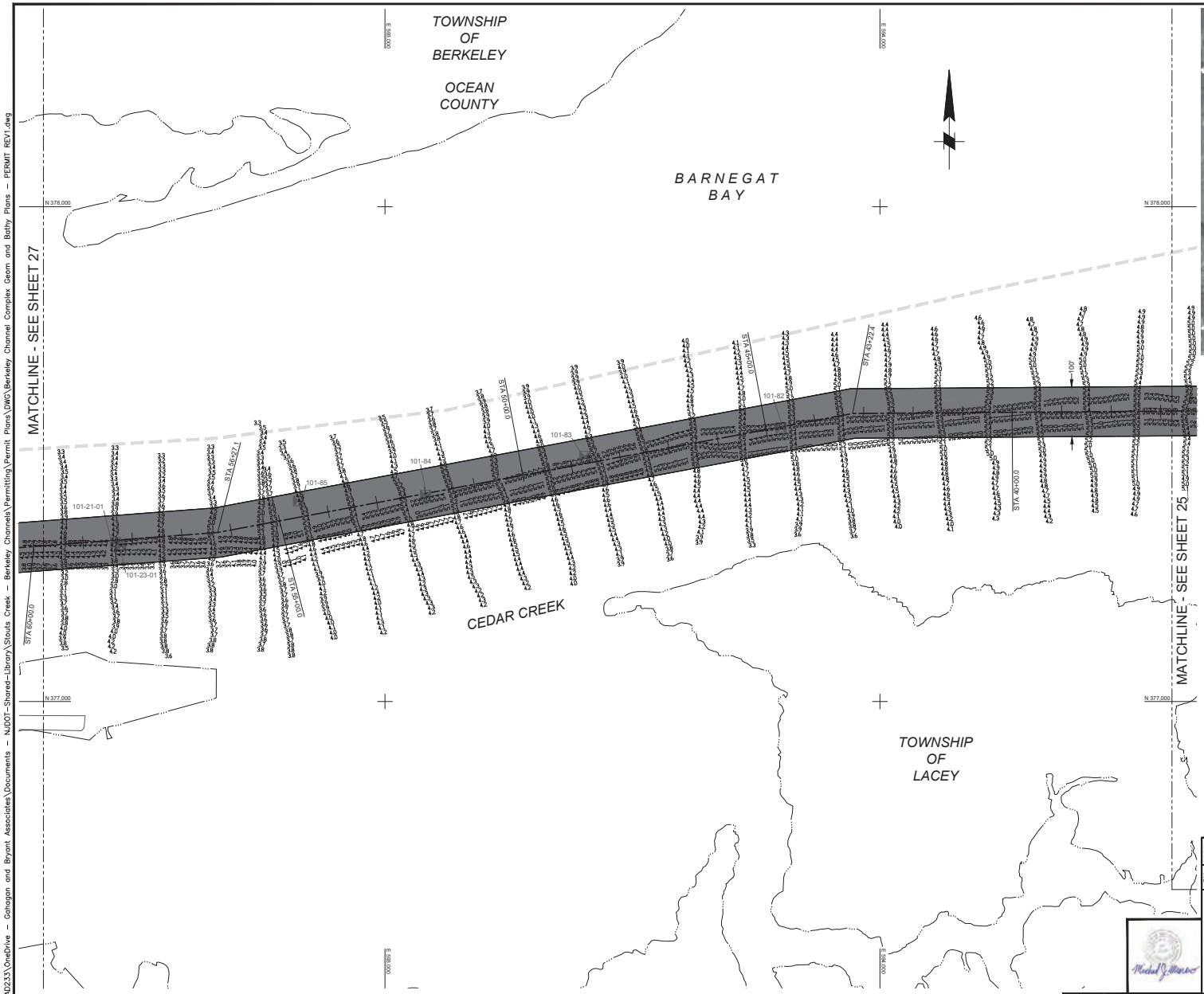

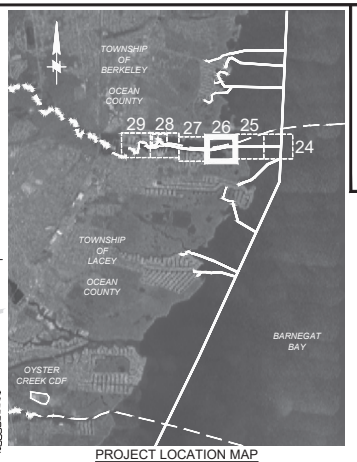

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

NOTES:

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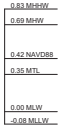

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

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

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 26 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 25	
DATE: APRIL 2024			

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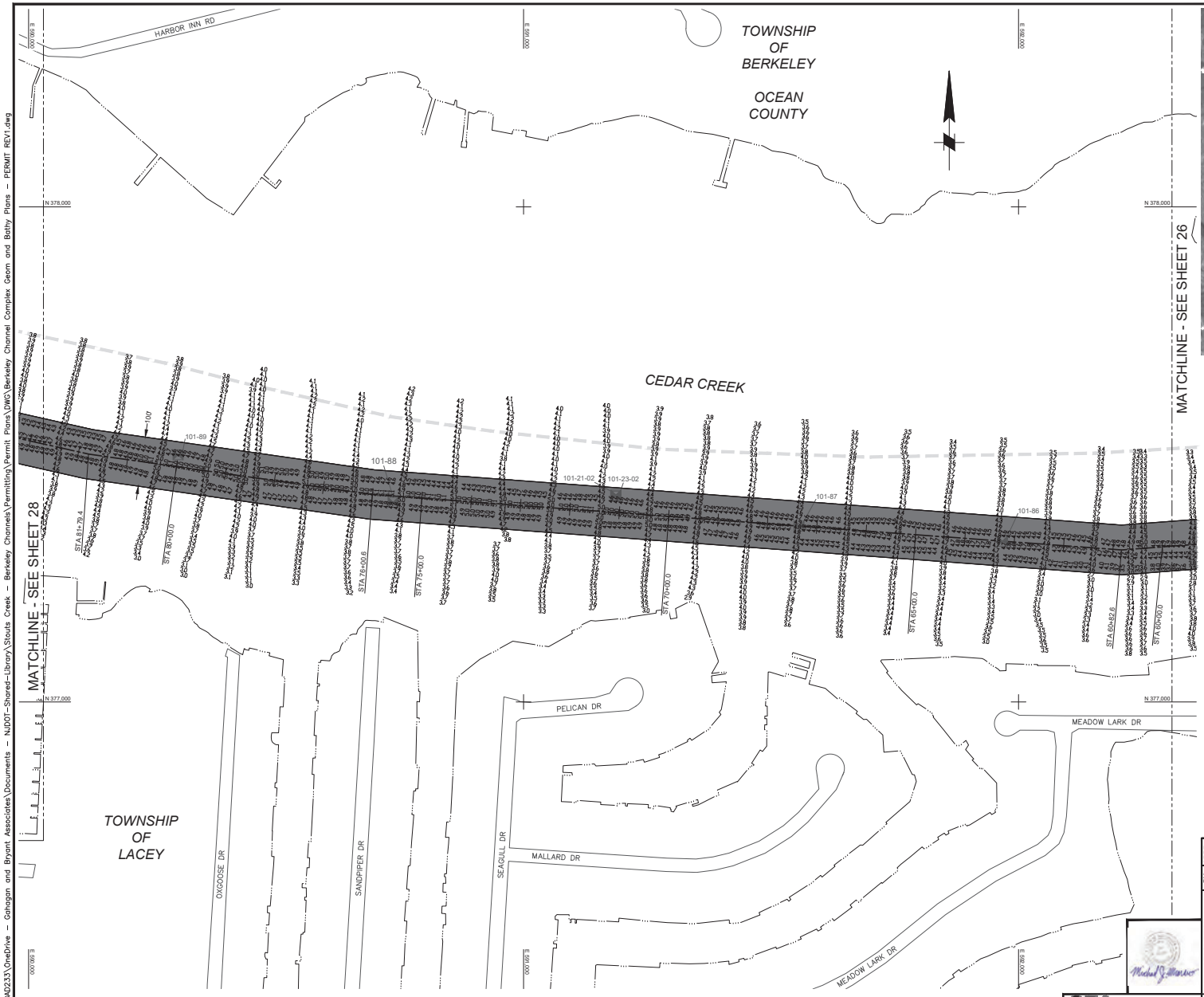

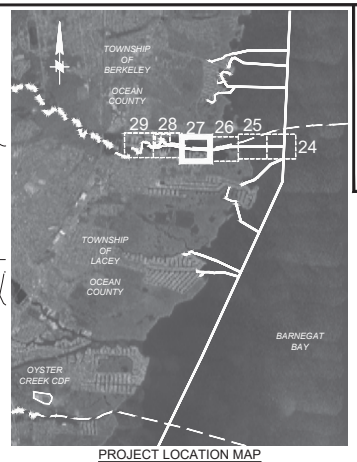

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

NOTES:

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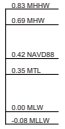

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

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

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 27 OF 39	
SCALE: AS SHOWN		DWG. NO. PERMIT - 26	
DATE: APRIL 2024			

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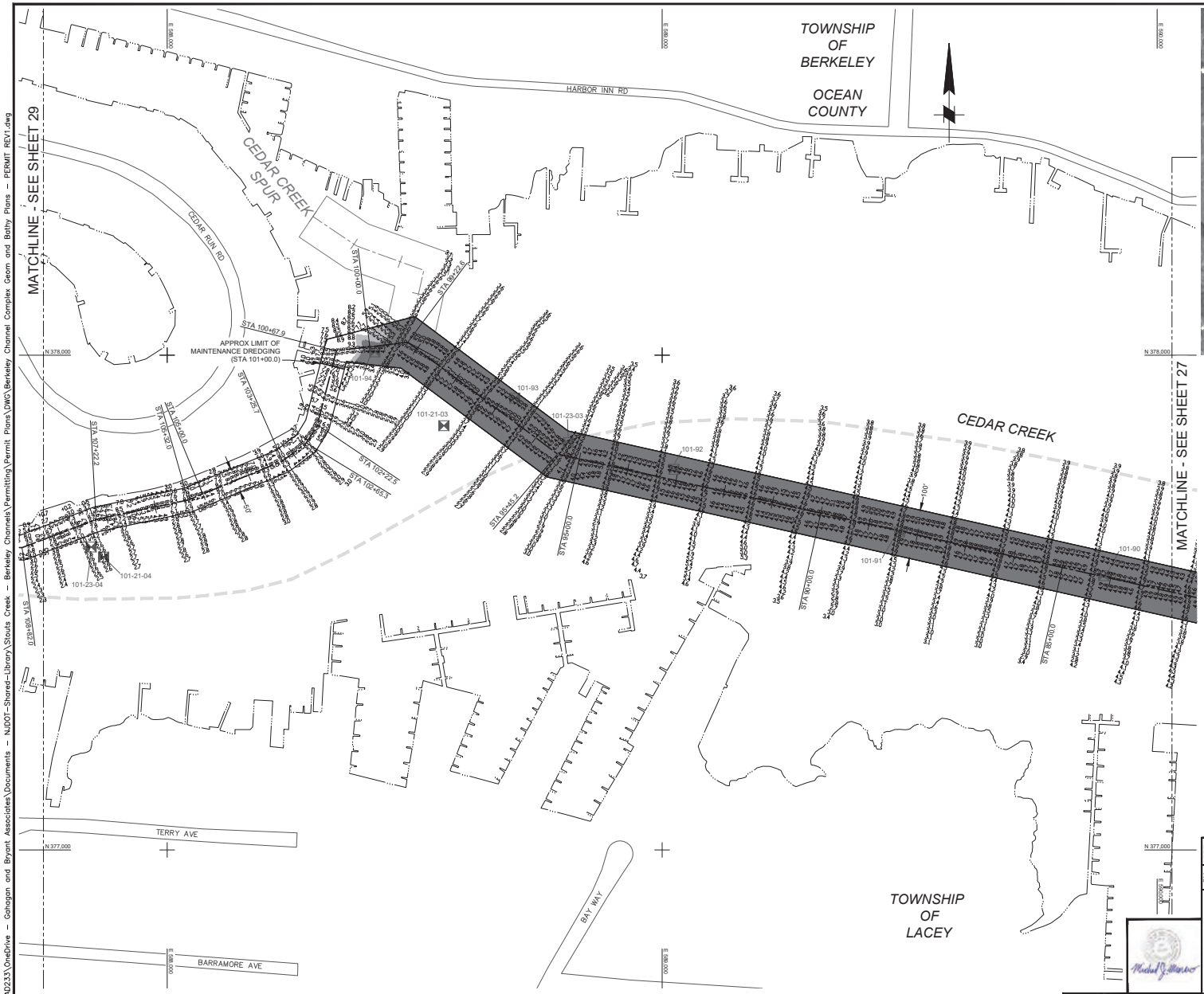

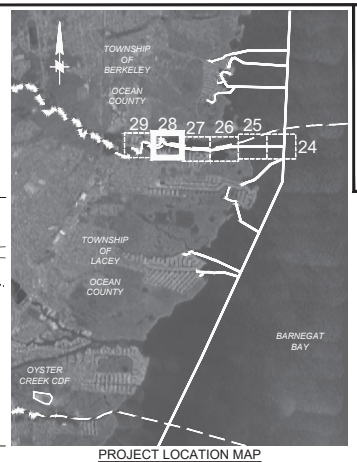

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

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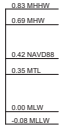

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 28 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 27
DATE: APRIL 2024		

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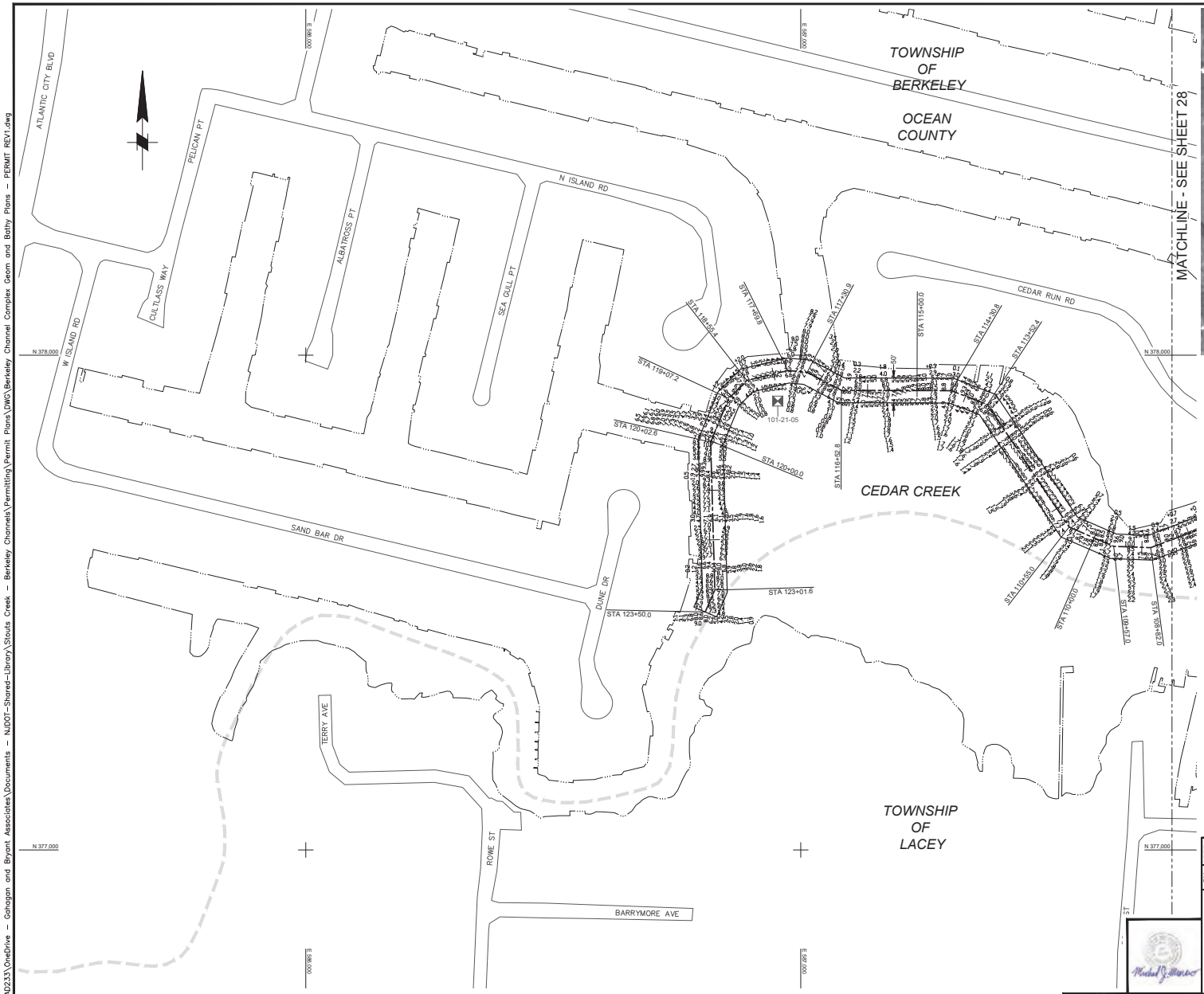

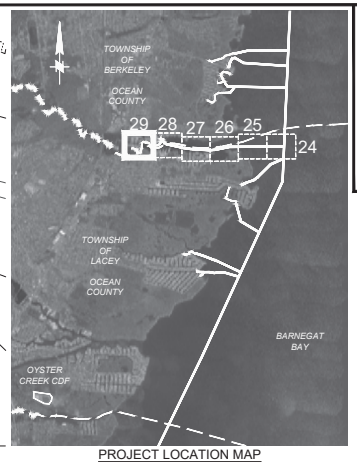

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK 0+00.0 to 123+50.0
TEMPLATE (-6 MLW)	29,740
OVERDEPTH (-7 MLW)	30,140
TOTAL (CY)	59,880

NOTES:

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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
- EXISTING ROAD/PAVEMENT
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- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. -6 MLW)
- AREA PRESENTLY ABOVE OVERDEPTH (BETWEEN ELEV. -7 & -6 MLW)

0.83 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	SHEET 29 OF 39
SCALE: AS SHOWN		DWG. NO. PERMIT - 28
DATE: APRIL 2024		

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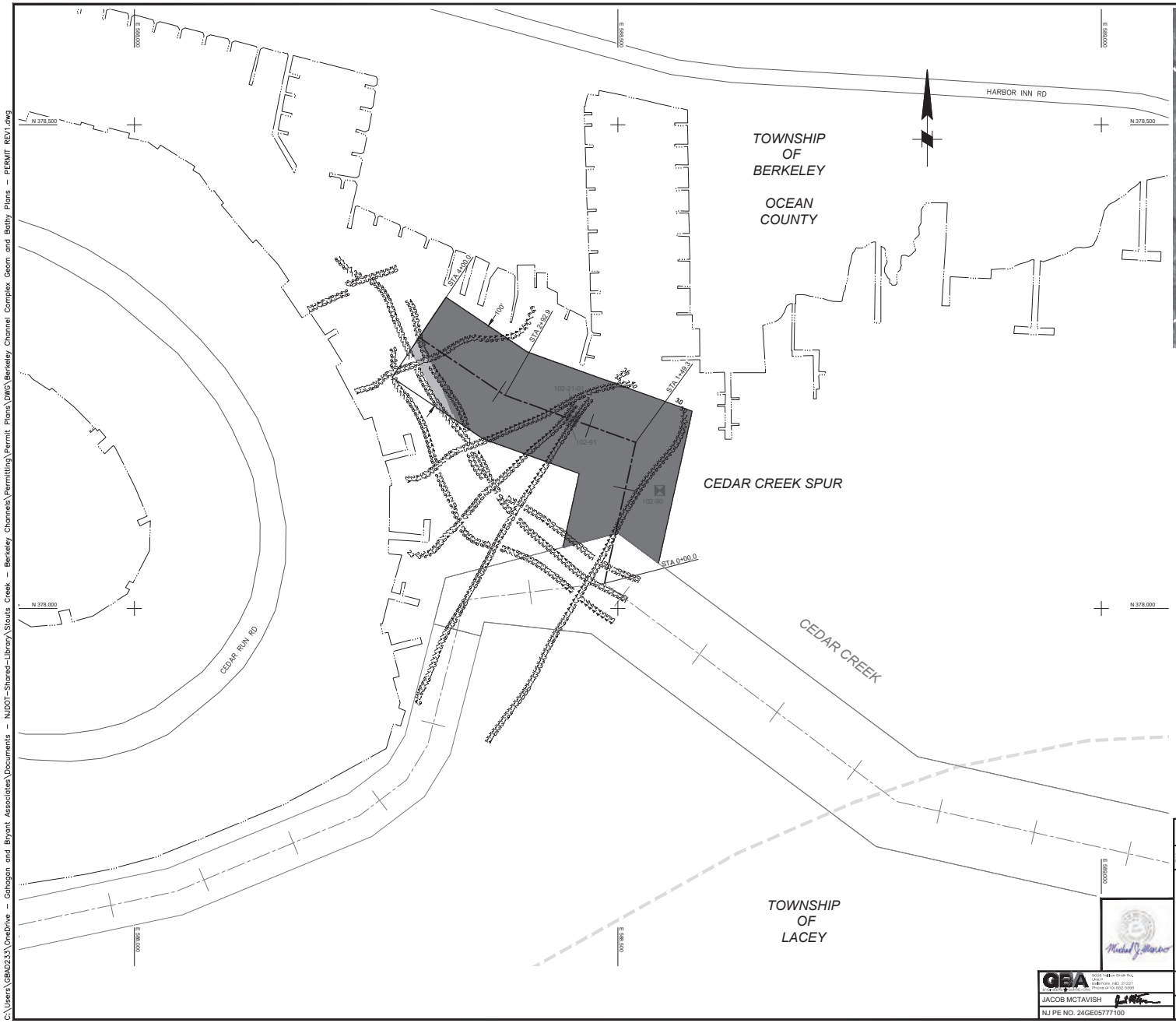

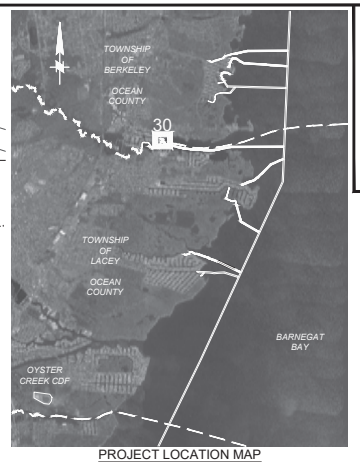

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	CEDAR CREEK SPUR 0+00.0 to 4+00.0
TEMPLATE (-6 MLW)	2,530
OVERDEPTH (-7 MLW)	1,480
TOTAL (CY)	4,010

NOTES:

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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
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- MUNICIPALITY LIMIT
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- HISTORIC RESOURCE AND BUFFER
- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. −6 MLW)
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0.83 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

0' 50' 100' 200'
GRAPHIC SCALE (FT)

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: CEDAR CREEK SPUR
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR
CHECKED BY: JAM
SCALE: AS SHOWN
DATE: APRIL 2024

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
MICHAEL J. MARANO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500

PROJECT NO.
SHEET 30 OF 39
DWG. NO. PERMIT - 29

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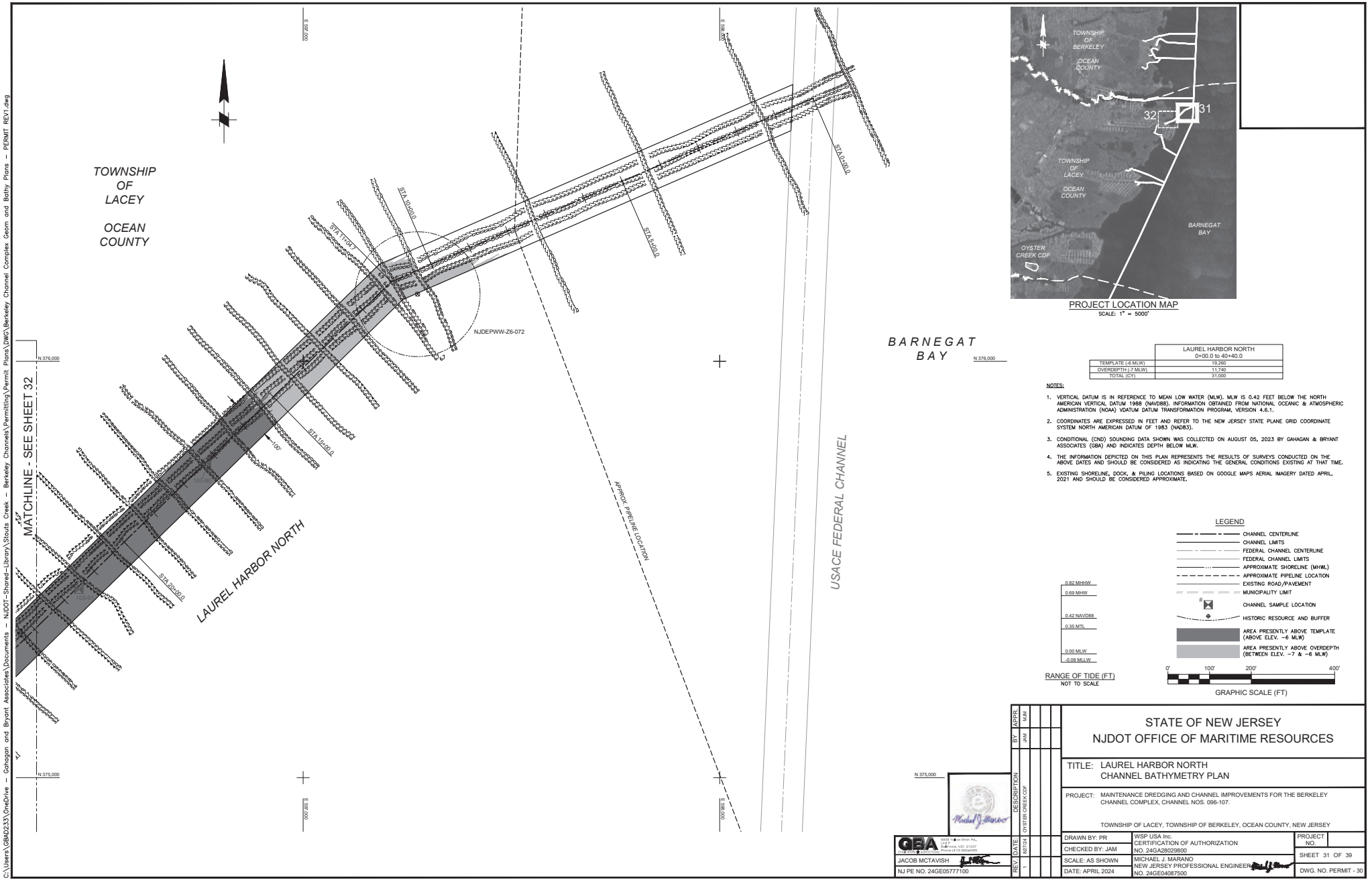

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	LAUREL HARBOR NORTH 0+00.0 to 40+40.0
TEMPLATE (-6 MLW)	19,260
OVERDEPTH (-7 MLW)	11,740
TOTAL (CY)	31,000

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 05, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. 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.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

0.82 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LAUREL HARBOR NORTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 31 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 30
DATE: APRIL 2024		

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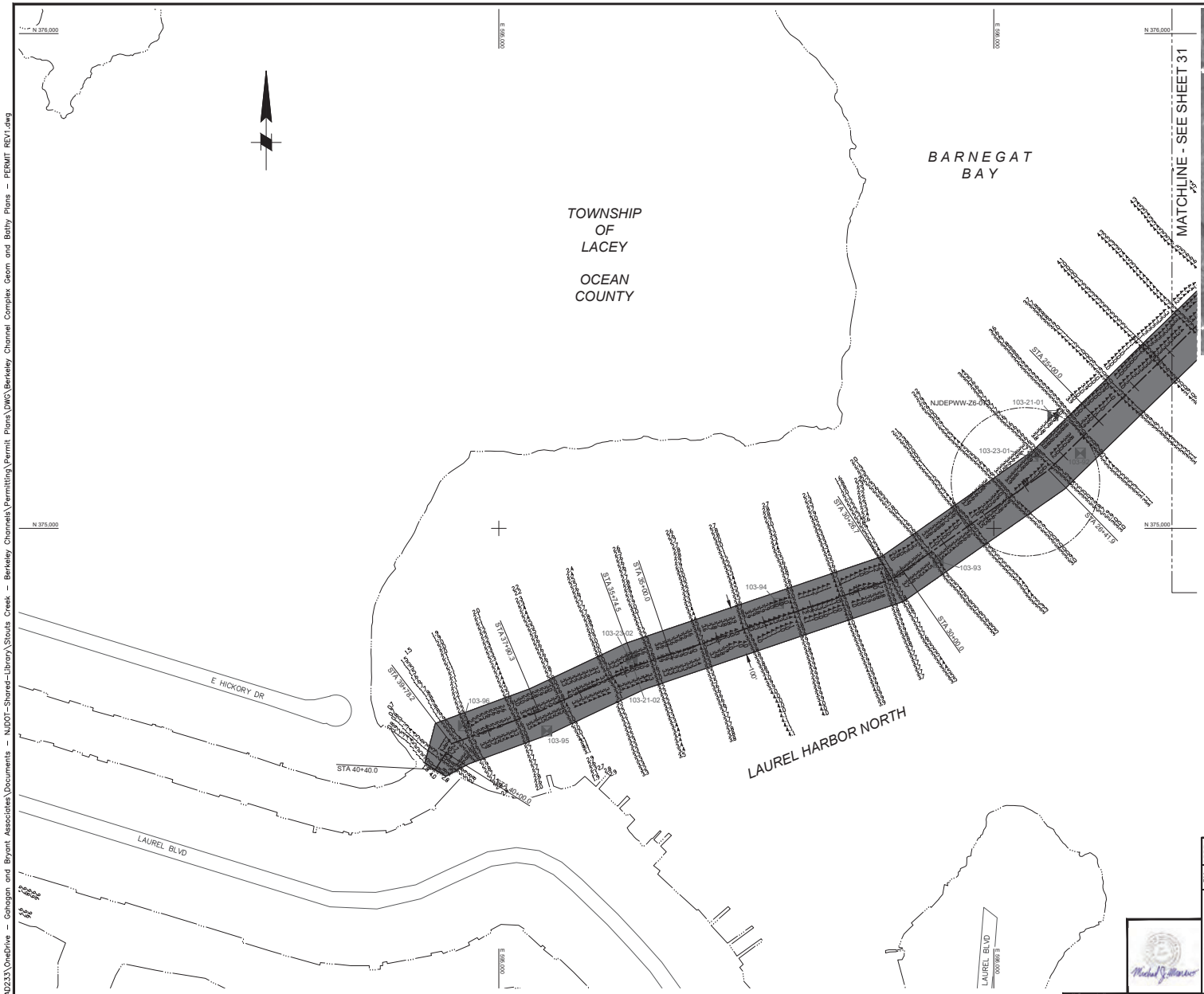

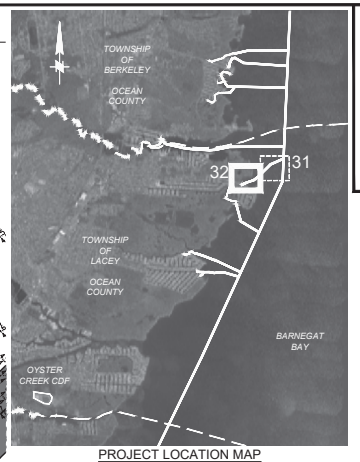

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	LAUREL HARBOR NORTH 0+00.0 to 40+40.0
TEMPLATE (-6 MLW)	19,260
OVERDEPTH (-7 MLW)	11,740
TOTAL (CY)	31,000

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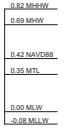
LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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

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

REV	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LAUREL HARBOR NORTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 32 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 31
DATE: APRIL 2024		

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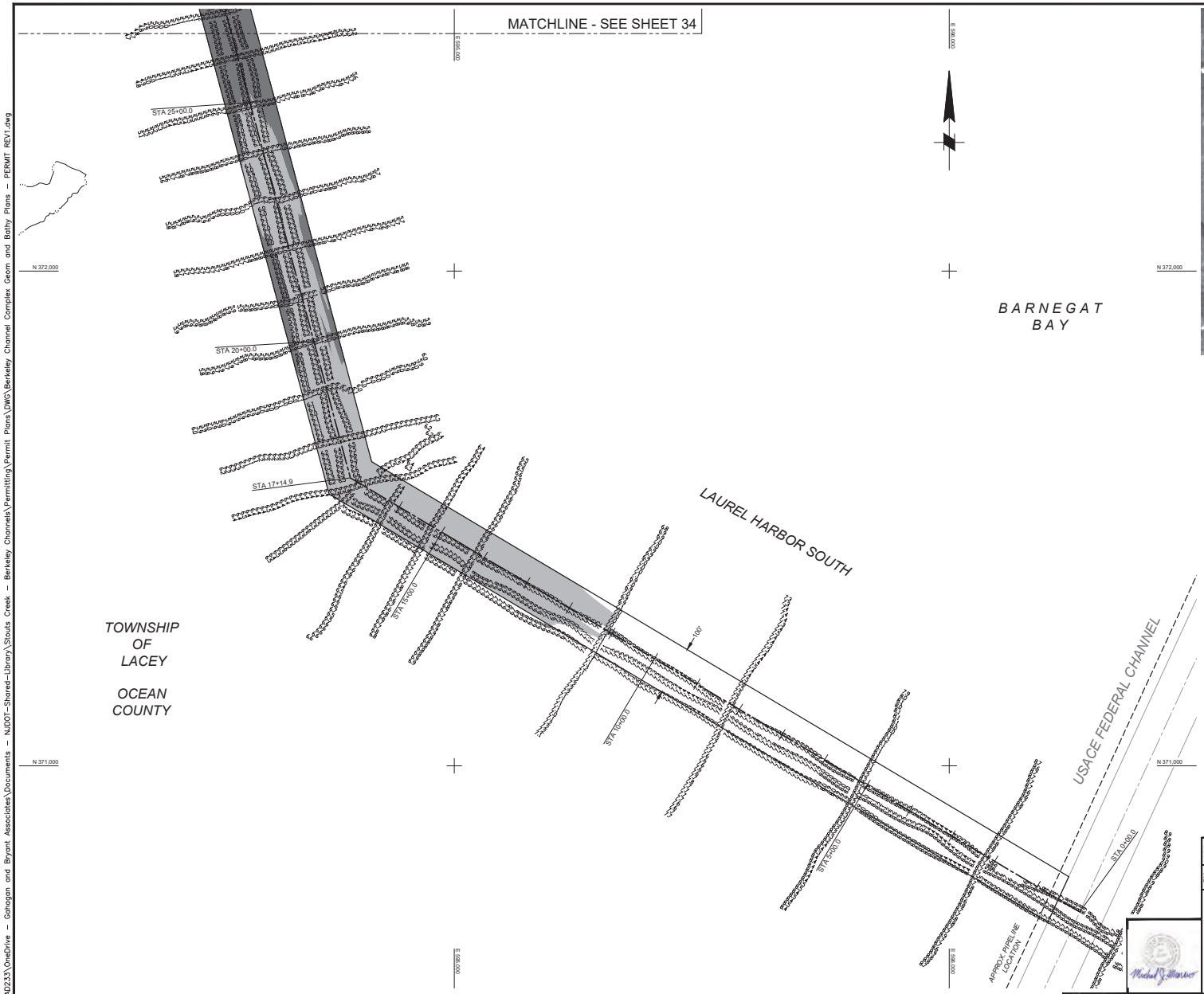

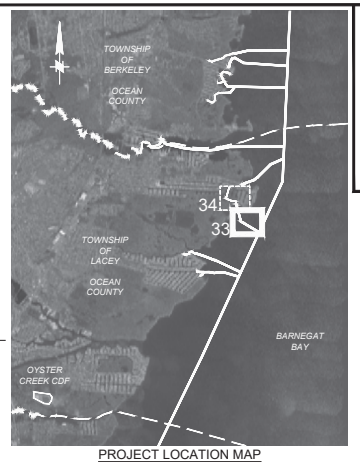

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	LAUREL HARBOR SOUTH 0+00.0 to 51+00.0
TEMPLATE (-6 MLW)	10,310
OVERDEPTH (-7 MLW)	10,800
TOTAL (CY)	21,110

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

0.82 MHHW
0.69 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.08 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LAUREL HARBOR SOUTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 33 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 32	
DATE: APRIL 2024			

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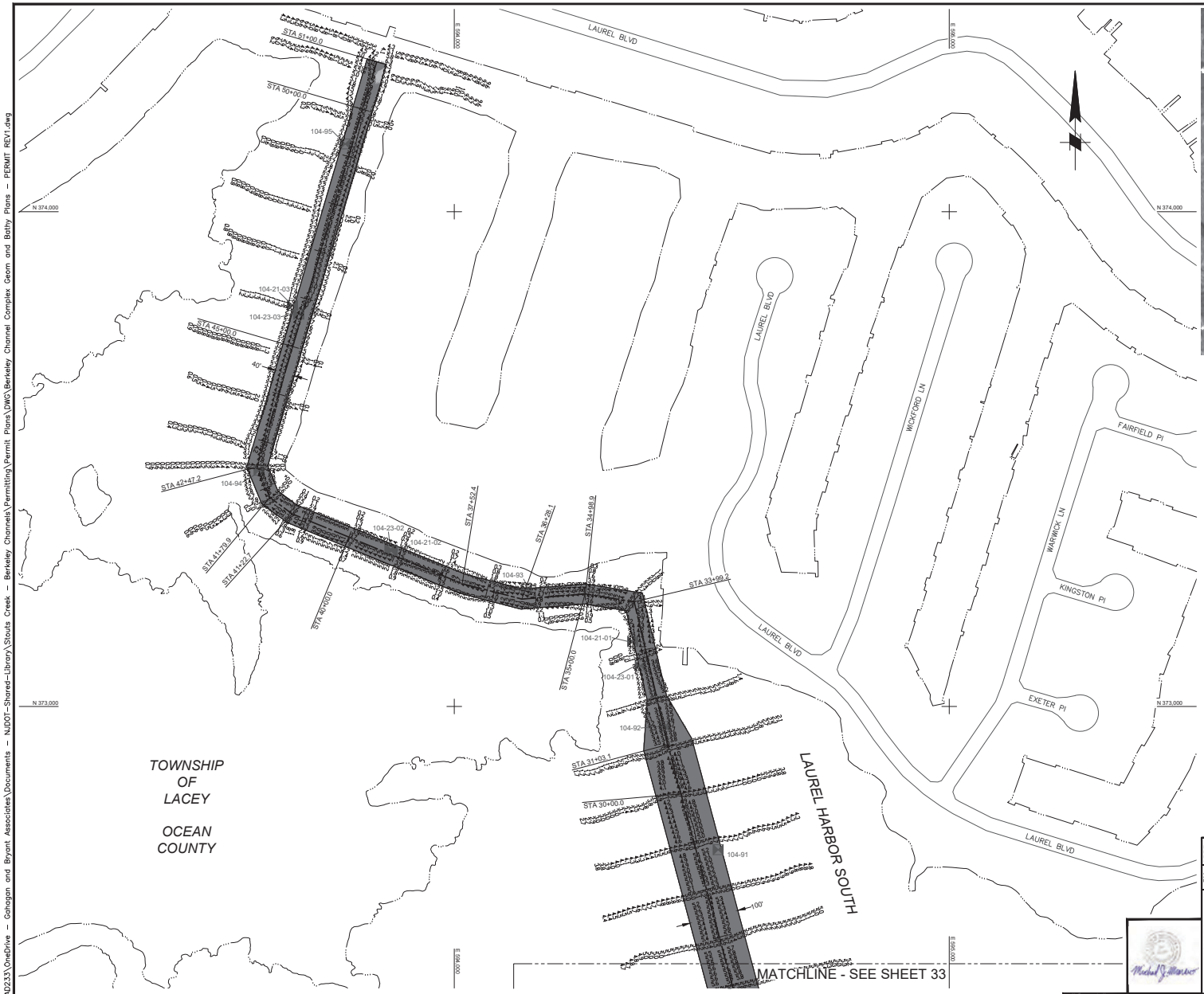

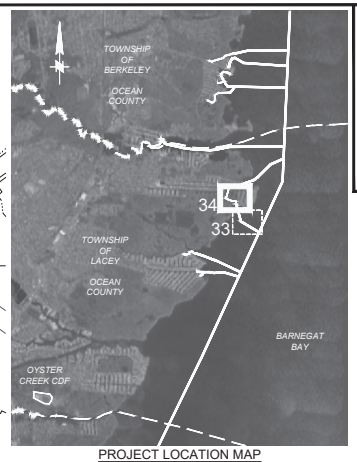

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	LAUREL HARBOR SOUTH 0+00.0 to 51+00.0
TEMPLATE (-6 MLW)	10,310
OVERDEPTH (-7 MLW)	10,800
TOTAL (CY)	21,110

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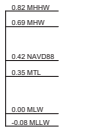

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
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- CHANNEL SAMPLE LOCATION
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- AREA PRESENTLY ABOVE TEMPLATE (ABOVE ELEV. −6 MLW)
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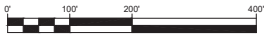

GRAPHIC SCALE (FT)

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: LAUREL HARBOR SOUTH
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: JAM		SHEET 34 OF 39	
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 33	
DATE: APRIL 2024			

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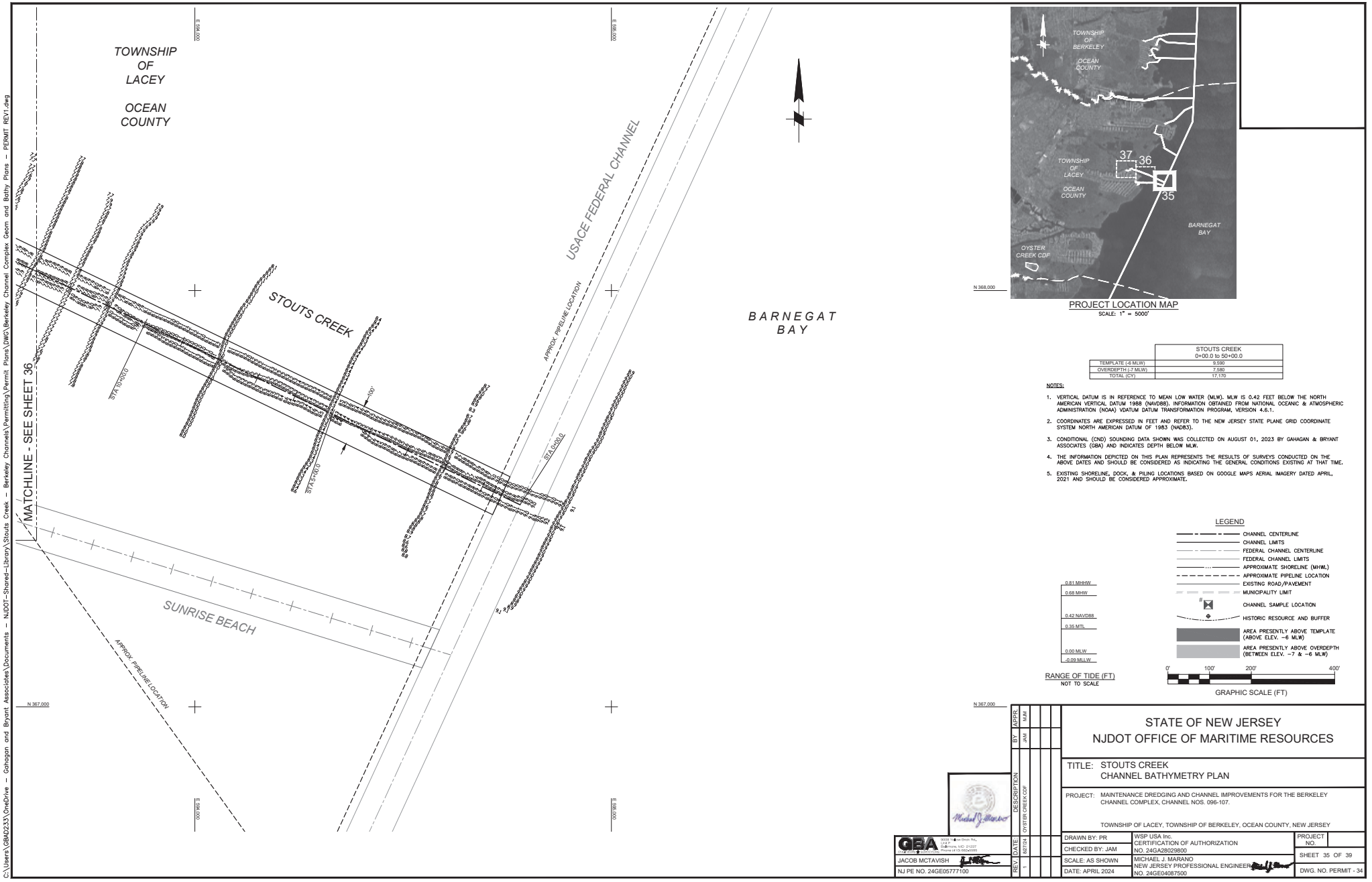

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	STOUTS CREEK 0+00.0 to 50+00.0
TEMPLATE (-6 MLW)	9,590
OVERDEPTH (-7 MLW)	7,580
TOTAL (CY)	17,170

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
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LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL CHANNEL LIMITS
- APPROXIMATE SHORELINE (MHWL)
- APPROXIMATE PIPELINE LOCATION
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RANGE OF TIDE (FT)
NOT TO SCALE

0.81 MHHW
0.68 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.09 MLLW

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

GBA
JACOB MCTAVISH
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REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: STOUTS CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 35 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 34
DATE: APRIL 2024		

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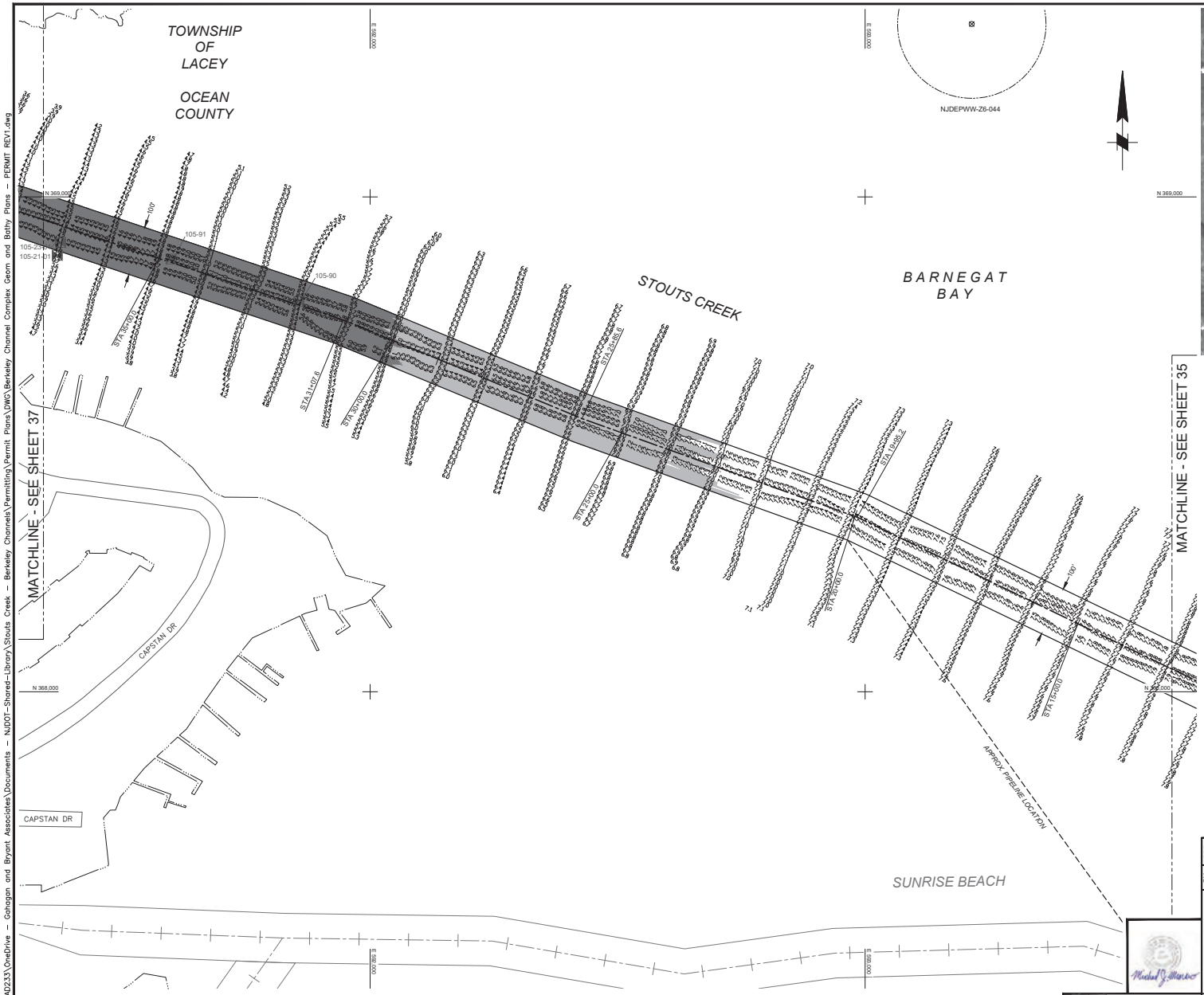

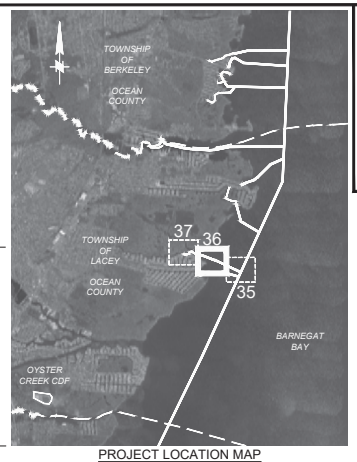

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	STOUTS CREEK 0+00.0 to 50+00.0
TEMPLATE (-6 MLW)	9,590
OVERDEPTH (-7 MLW)	7,580
TOTAL (CY)	17,170

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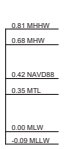

RANGE OF TIDE (FT)
NOT TO SCALE

LEGEND

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

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: STOUTS CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 36 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 35
DATE: APRIL 2024		

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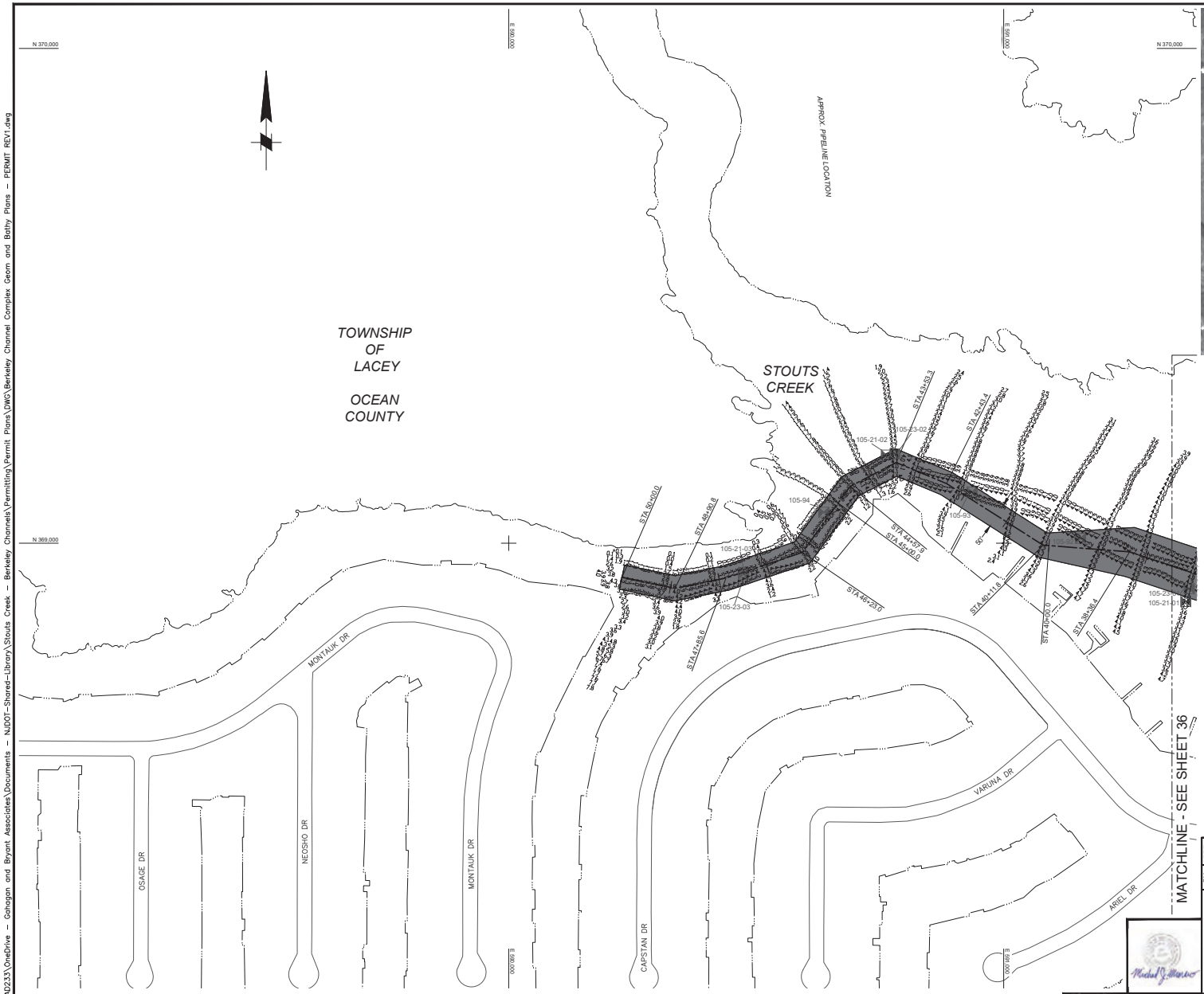

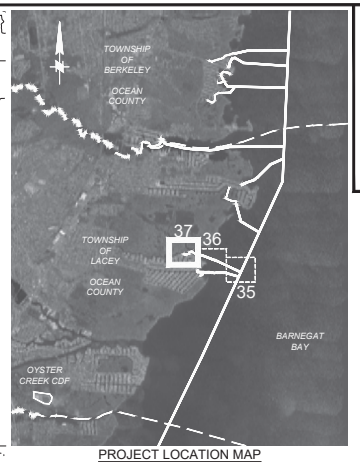

PROJECT LOCATION MAP
SCALE: 1" = 5000'

	STOUTS CREEK 0+00.0 to 50+00.0
TEMPLATE (-6 MLW)	9,590
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NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO MEAN LOW WATER (MLW). MLW IS 0.42 FEET BELOW THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.6.1.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. CONDITIONAL (CND) SOUNDING DATA SHOWN WAS COLLECTED ON AUGUST 01, 2023 BY GAHAGAN & BRYANT ASSOCIATES (GBA) AND INDICATES DEPTH BELOW MLW.
4. 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.
5. EXISTING SHORELINE, DOCK, & PILING LOCATIONS BASED ON GOOGLE MAPS AERIAL IMAGERY DATED APRIL, 2021 AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- CHANNEL CENTERLINE
- CHANNEL LIMITS
- FEDERAL CHANNEL CENTERLINE
- FEDERAL 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)

0.81 MHHW
0.68 MHW
0.42 NAVD88
0.35 MTL
0.00 MLW
-0.09 MLLW

RANGE OF TIDE (FT)
NOT TO SCALE

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

REV.	DATE:	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

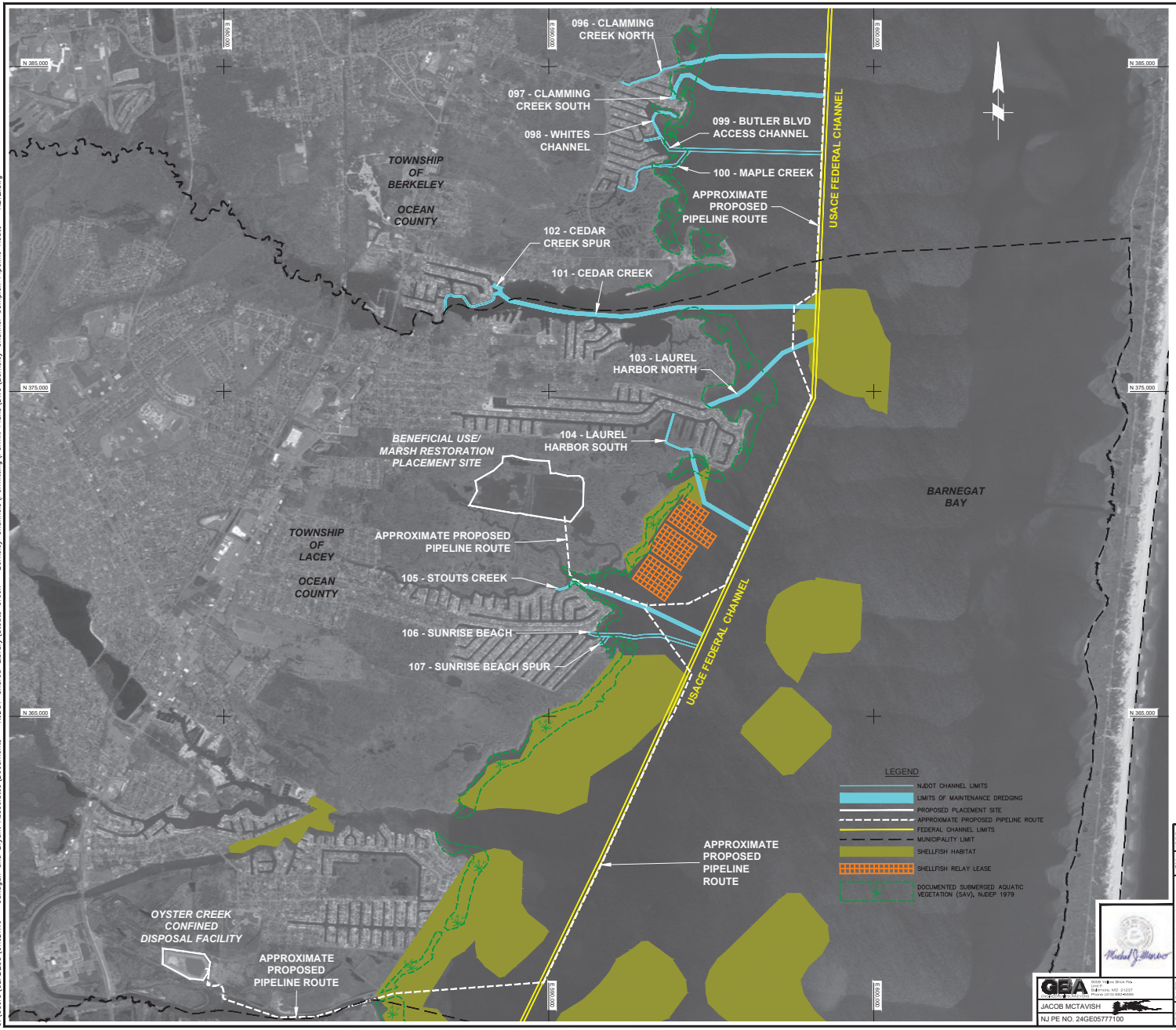
TITLE: STOUTS CREEK
CHANNEL BATHYMETRY PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 37 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 36
DATE: APRIL 2024		

C:\Users\GBAD23\OneDrive - Gahagan and Bryant Associates\Documents - NJDOT-Shared-Library\Stouts Creek - Berkeley Channels\Permitting\Permit Plans\DWG\Berkeley Channel Complex Geom and Bathy Plans - PERMIT REV1.dwg



NOTES:

1. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
2. AERIAL IMAGERY IS FROM GOOGLE MAPS, DATED APRIL 2021.
3. SAV OCCURRENCE SHOWN FROM THE STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF LAND USE REGULATION, FORKED RIVER (1979, MAP_036) AND TOMS RIVER (1979 MAP_051). SAV MAY BE PRESENT OUTSIDE OF THE LOCATIONS SHOWN ON THIS PLAN AND SHOULD BE AVOIDED IF ENCOUNTERED.
4. SHELLFISH DISTRIBUTION SHOWN FROM HARD CLAM DISTRIBUTION FOR CENTRAL BARNEGAT BAY (2012, MAP_059) AND DISTRIBUTION AND ABUNDANCE OF HARD CLAM AND SOFT CLAM BEDS ALONG ISLAND BEACH (1986, MAP_018).
5. SHELLFISH LEASES SHOWN FROM STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF LAND USE REGULATION, SHELLFISH LEASES OF NEW JERSEY (2023).

0' 1500' 3000' 6000'

GRAPHIC SCALE (FT)

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/27/24	OYSTER CREEK CDF	JAM	MJM

JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: BERKELEY CHANNEL COMPLEX
PIPELINE ROUTE PLAN

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096-107.

TOWNSHIP OF LACEY, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY

DRAWN BY: PR	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.
CHECKED BY: JAM		SHEET 38 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO. PERMIT - 37
DATE: JULY 2024		

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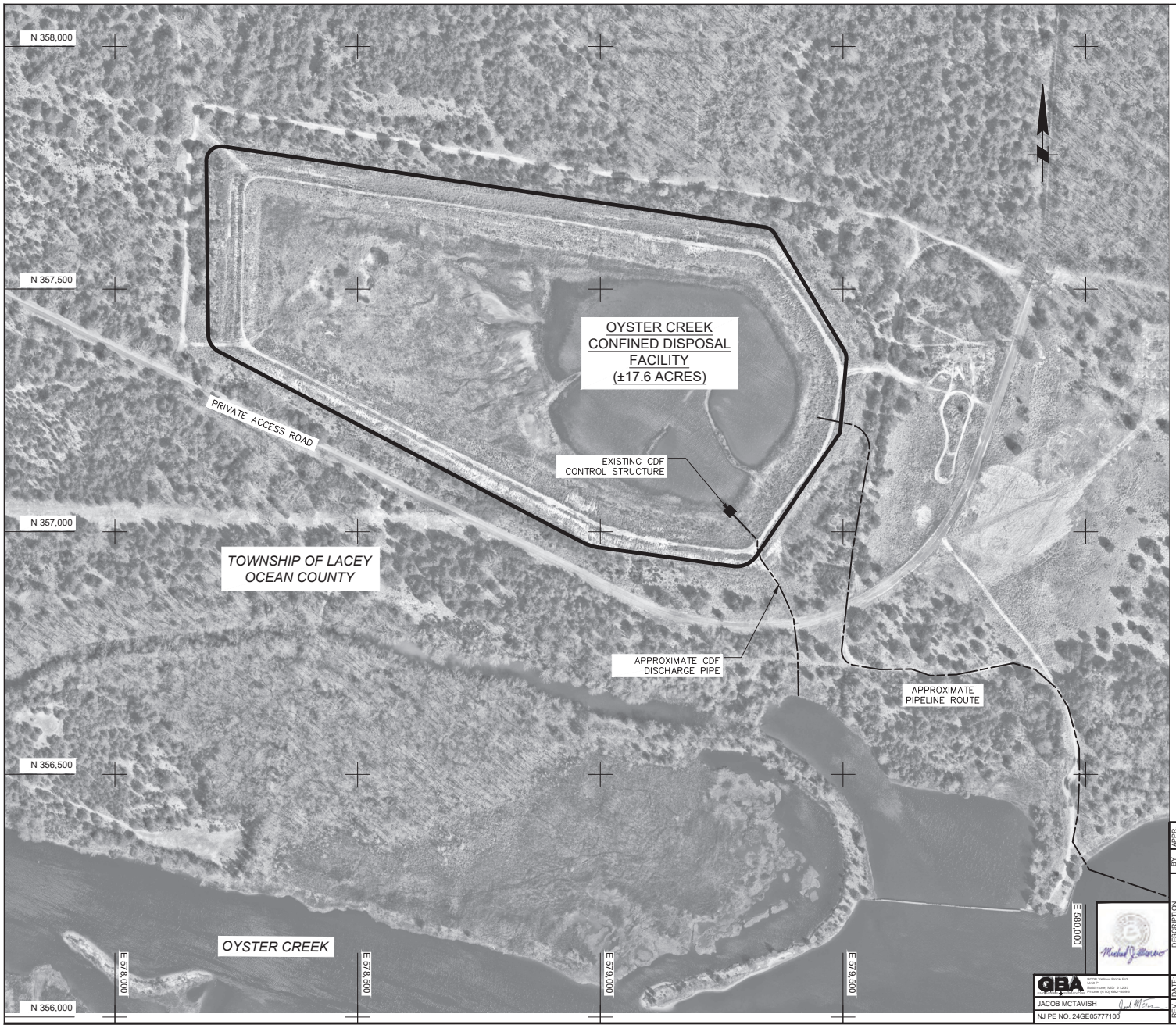

NOTES:

1. VERTICAL DATUM IS IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NAVD88 IS 0.43 FEET ABOVE MEAN LOW WATER. INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM DATUM TRANSFORMATION PROGRAM, VERSION 4.7.0.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. AERIAL IMAGERY FROM NEARMAP, DATED FEBRUARY 2024.

LEGEND

- APPROXIMATE PIPELINE ROUTE
- APPROXIMATE CDF DISCHARGE PIPE
- PLACEMENT SITE EXTENTS

RANGE OF TIDE (FT)
NOT TO SCALE

0.41 MHHW
0.28 MHW
0.00 NAVD88
-0.05 MTL
-0.43 MLW
-0.50 MLLW

SCALE IN FEET
100' 50' 0 100' 200'

REV.	DATE	DESCRIPTION	BY	APPR.
1	8/21/24	OYSTER CREEK CDF	JF	MJM

GBA
JACOB MCTAVISH
NJ PE NO. 24GE05777100

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: PLACEMENT PLAN
OYSTER CREEK CONFINED DISPOSAL FACILITY

PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE BERKELEY CHANNEL COMPLEX, CHANNEL NOS. 096 - 107

TOWNSHIP OF LACEY & TOWNSHIP OF BERKELEY, COUNTY OF OCEAN, NEW JERSEY

DRAWN BY: JF	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	PROJECT NO.	
CHECKED BY: MJM		SHEET	39 OF 39
SCALE: AS SHOWN	MICHAEL J. MARANO NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE04087500	DWG. NO.	PR - 01
DATE: AUG. 2024			