



**US Army Corps
of Engineers**
Philadelphia District

Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No. Date

CENAP-OP-R-2016-947-35

Application No. File No.

In Reply Refer to:
REGULATORY BRANCH

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
P.O. Box 600
Trenton, New Jersey 08625-0600
Attn: Ms. Genevieve Clifton

WATERWAY: Forked River Channel, Forked River Middle Branch, Forked River Middle Branch Spur, Forked River South Branch – Elks Spur and Forked River South Branch B Spur Channels.

LOCATION: The project consists of maintenance dredging within the Forked River Complex, located in Lacey Township, Ocean County, New Jersey. The dredged material is proposed to be placed at the Oyster Creek confined disposal facility (CDF) off Route 9 in Lacey Township, New Jersey.

ACTIVITY: The applicant proposes to hydraulically dredge accumulated sediment from within portions of the waterways listed above (See enclosures E1-24). The applicant has requested a 10-year maintenance dredging permit.

Maintenance dredging shall consist of hydraulic cutterhead dredging of approximately eighty seven thousand, eight hundred twenty four cubic yards (~87,824 yds³) of sediment comprised of mostly fine grained sediment, from approximately twenty one thousand two hundred and twelve linear feet (~21,212'). The project depth in the Forked River Channel and Forked River Middle Branch Channels is seven feet below mean low water (-7' MLW), plus one foot (1') of allowable overdredge. The project depth in the Forked River Middle Branch Spur, Forked River South Branch Elks Spur and Forked River South Fork B Spur channels is five feet below mean low water (-5' MLW), plus one foot (1') of allowable overdredge. The channel design width ranges from fifty feet (50') to one hundred feet (100'). Channel side slopes are 3:1.

Maintenance dredging of the Forked River was last authorized in 2001 and the material placed into a CDF in Lacey Township that is no longer available for use. The material to be removed was deposited as a result of Superstorm Sandy and is proposed for the restoration of navigability within these existing navigation channels. No new excavation is proposed.

Material will be hydraulically dredged via cutterhead dredge and transported via pipeline for placement at the Oyster Creek CDF in Lacey Township, Ocean County, New Jersey. The dredge pipeline to the placement site will be sunk except when floating to avoid submerged aquatic vegetation. The pipeline shall be marked as per USCG regulations.

PURPOSE: The applicant's stated purpose is to restore the existing navigation channel to authorized project depth thus providing safe navigation for both commercial and recreational vessels currently using the channels, and the beneficial use of the dredged material.

A preliminary review of this application indicates that the proposed work will not effect threatened and endangered species. While Atlantic Sturgeon (*Acipenser oxyrinchus*), Kemp's ridley sea turtle (*Lepidochelys kempii*), loggerhead sea turtle (*Caretta caretta*), green sea turtle (*Chelonia mydas*), leatherback sea turtle (*Dermochelys coriacea*) and hawksbill sea turtle (*Eretmochelys imbricate*) are possibly in the vicinity, due to the infrequent occurrences of the aforementioned species and considering the shallow water depths and boating activity, the project will not affect these species.

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 those 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. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. 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 should be submitted, in writing, within 30 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work. The permit area has been so extensively modified and previously dredged that little likelihood exists for the proposed project to impact a historic property.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment of the species listed in the "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware", dated March 1999, indicates that the project would result in an adverse effect to EFH. In order to avoid or minimize impacts to EFH species from the dredging, specifically Winter Flounder (*Pseudopleuronectes americanus*), the USACE is recommending no in-water work will be authorized between January 1st and May 31st of any given year. As the process proceeds any additional impacts will be reviewed more extensively as more information becomes available.

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 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 Coastal Zone Management (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 of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

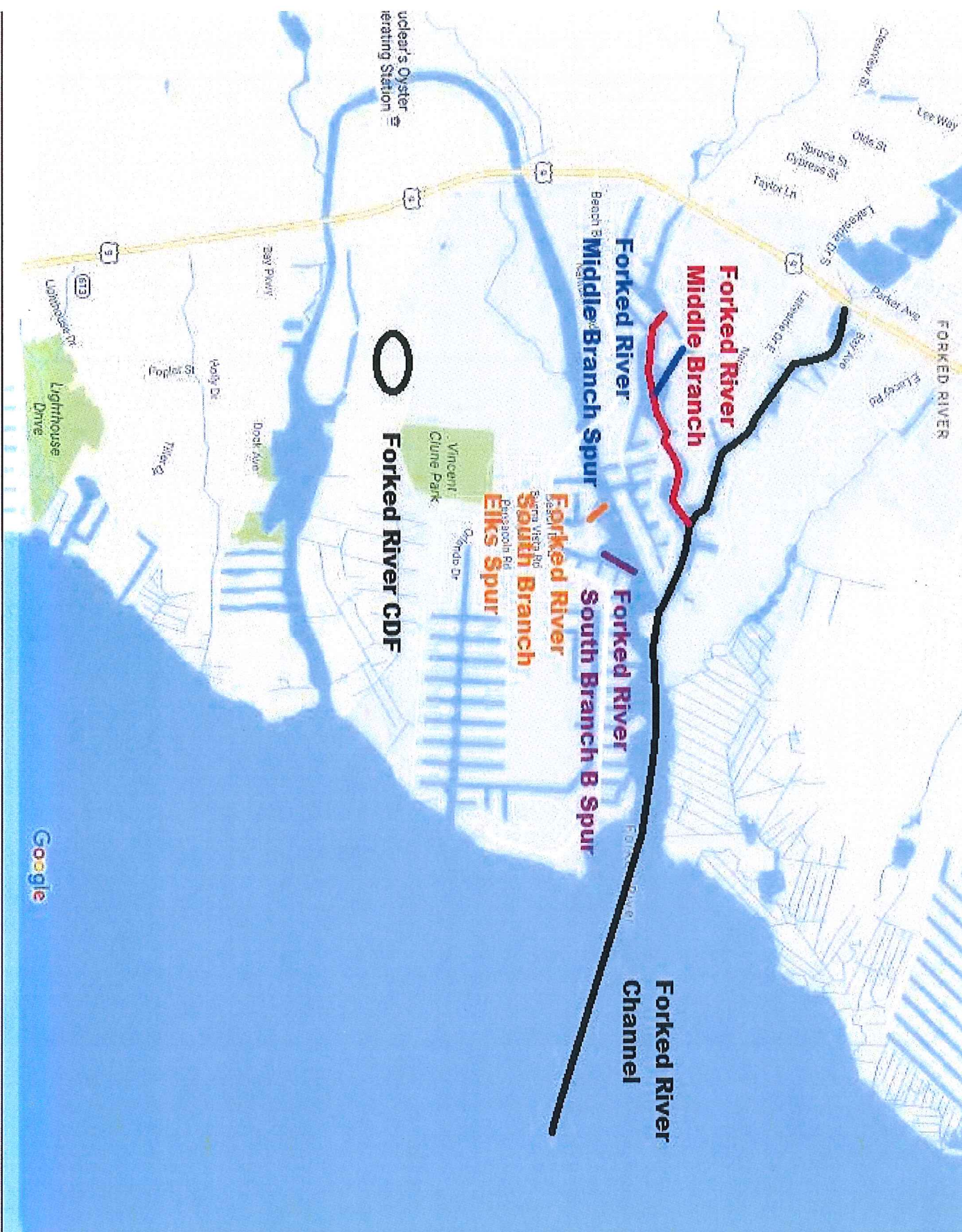
In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

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

Additional information concerning this permit application may be obtained by calling Mr. Michael Hayduk at (215) 656-5822, via email at michael.h.hayduk@usace.army.mil or writing this office at the above address.

Edward E. Bonner
Chief, Regulatory Branch



FORKED RIVER

**Forked River
Middle Branch**

**Forked River
Middle Branch Spur**

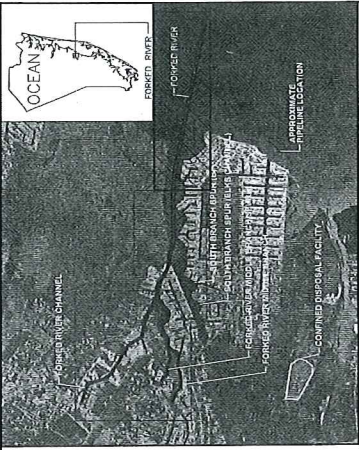
**Forked River
South Branch
Elks Spur**

**Forked River
South Branch B Spur**

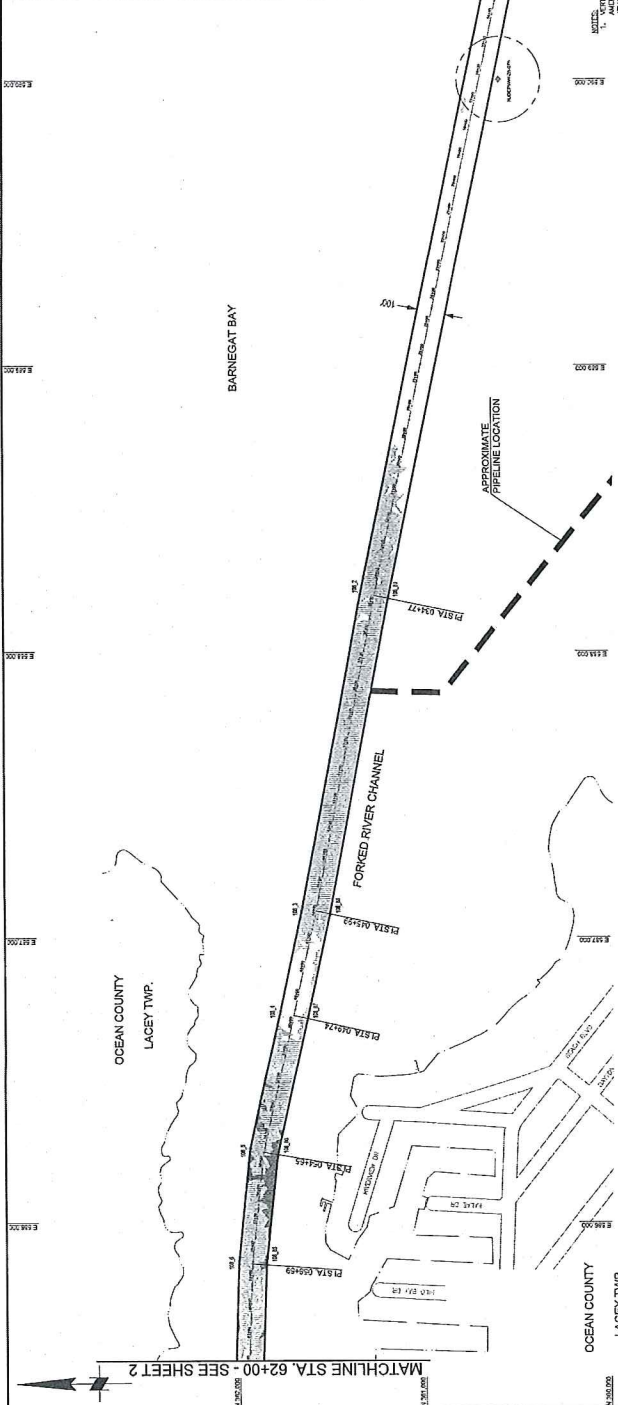
**Forked River
Channel**

 **Forked River CDF**

Nuclear's Oyster
Processing Station



CHANNEL LOCATION PLAN
N.T.S.



- NOTES:**
1. THIS PLAN IS A PRELIMINARY PLAN AND THE WATER MAIN, PIPE & GAS PIPE SHALL BE THE NORTH AMERICAN VERTICAL DATUM OF 1985 (NAVD83). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) SOURCE DATA TRANSMISSION PROGRAM.
 2. THE CHANNEL CENTERLINE AND APPROXIMATE PIPELINE LOCATION ARE BASED ON THE NEW JERSEY STATE PLUMBING CODE CONFORMANCE SYSTEM.
 3. CHANNEL DEPTH AND LOCK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
 4. CHANNEL DEPTH IS BASED ON DATA COLLECTED ON SEPTEMBER 14, 2015 BY GARDNER & BRYANT ASSOCIATES, INC.
 5. THE CHANNEL CENTERLINE IS BASED ON THE COASTAL SOUNDING CHANNEL CENTERLINE DATA ON THE AERIAL IMAGERY FROM THE NEW JERSEY STATE COASTAL SOUNDING NETWORK, DATED 2015.
 6. CONTRACTORS TO PROVIDE EROSION CONTROL, WILL WORKING ADJACENT TO EXISTING BUILDINGS AND OTHER STRUCTURES TO PROTECT EXISTING STRUCTURES FROM EROSION. EROSION CONTROL MEASURES, SUCH AS DIPS SHALL BE ADAPTED ACCORDINGLY TO ADD IMPACTS, TO BE APPROVED BY THE RESIDENT ENGINEER.

- LEGEND**
- SOLID BROWN LINE: EXISTING CHANNEL
 - DOTTED BROWN LINE: CHANNEL CENTERLINE
 - DASHED BROWN LINE: APPROXIMATE PIPELINE LOCATION
 - DASHED BLACK LINE: PIPELINE LOCATION
 - SOLID BLACK LINE: EXISTING BRIDGE
 - DOTTED BLACK LINE: APPROXIMATE BRIDGE LOCATION
 - DIAGONAL HATCHED AREA: CHANNEL CROSSING AREA - EXISTING
 - CIRCLE WITH DIAGONAL HATCHES: CHANNEL CROSSING AREA - NEW
 - CIRCLE WITH DIAGONAL HATCHES AND STAR: HISTORIC STRUCTURE AND BUTTER

RANGE OF TIDE
NOT TO SCALE

REV	DATE	DESCRIPTION	BY	APPR.

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

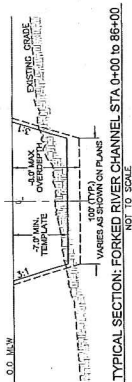
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL ARRANGEMENT & GEOMETRY PLAN

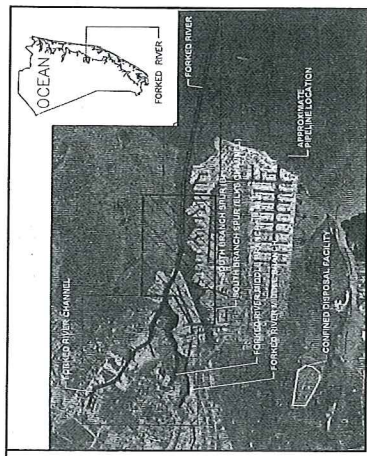
PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL), MIDDLE BRANCH SPUR (B), SOUTH BRANCH SPUR (B)
LACEY TOWNSHIP, OCEAN COUNTY, NEW JERSEY

DRAWN BY: CGM
CHECKED BY: BT
SCALE AS SHOWN
DATE: 07/18

DESIGNED BY: JAMES D. REBER
NEW JERSEY PROFESSIONAL ENGINEER
NO. 22923-0001

PROJECT NO:
SHEET 1 OF 15
DWG. NO. DRG-01





CHANNEL LOCATION PLAN
N.T.S.

1. AERIAL DATA IS IN REFERENCE TO AERIAL PHOTOGRAPHY TAKEN IN 2011. THE DATA IS SUBJECT TO THE USACE'S PERIODIC REVISIONS TO THE NATIONAL NAVIGATIONAL DATA SET.
2. AERIAL DATA IS SUBJECT TO THE USACE'S PERIODIC REVISIONS TO THE NATIONAL NAVIGATIONAL DATA SET.
3. CHANNEL LOCATIONS AND BANK LOCATIONS SHOWN ON THIS PLAN ARE BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
4. CHANNEL LOCATIONS AND BANK LOCATIONS SHOWN ON THIS PLAN ARE BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
5. THE INFORMATION SHOWN ON THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THE USACE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION SHOWN ON THIS PLAN.
6. CONTRACTOR TO CONDUCT SURVEY AND DESIGN WORK SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE USACE AND OTHER AGENCIES.
7. CONTRACTOR TO CONDUCT SURVEY AND DESIGN WORK SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE USACE AND OTHER AGENCIES.

LEGEND

4-4.4' BANK	DOTTED BOUNDARY
4-3.3' BANK	CHANNEL CENTERLINE
4-2.2' BANK	CHANNEL LIMITS
4-1.1' BANK	4-2' MAX OVERSIGHT
4-0' BANK	4-1' MAX OVERSIGHT
3-9' BANK	4-0' MAX OVERSIGHT
3-8' BANK	3-9' MAX OVERSIGHT
3-7' BANK	3-8' MAX OVERSIGHT
3-6' BANK	3-7' MAX OVERSIGHT
3-5' BANK	3-6' MAX OVERSIGHT
3-4' BANK	3-5' MAX OVERSIGHT
3-3' BANK	3-4' MAX OVERSIGHT
3-2' BANK	3-3' MAX OVERSIGHT
3-1' BANK	3-2' MAX OVERSIGHT
3-0' BANK	3-1' MAX OVERSIGHT
2-9' BANK	3-0' MAX OVERSIGHT
2-8' BANK	2-9' MAX OVERSIGHT
2-7' BANK	2-8' MAX OVERSIGHT
2-6' BANK	2-7' MAX OVERSIGHT
2-5' BANK	2-6' MAX OVERSIGHT
2-4' BANK	2-5' MAX OVERSIGHT
2-3' BANK	2-4' MAX OVERSIGHT
2-2' BANK	2-3' MAX OVERSIGHT
2-1' BANK	2-2' MAX OVERSIGHT
2-0' BANK	2-1' MAX OVERSIGHT
1-9' BANK	2-0' MAX OVERSIGHT
1-8' BANK	1-9' MAX OVERSIGHT
1-7' BANK	1-8' MAX OVERSIGHT
1-6' BANK	1-7' MAX OVERSIGHT
1-5' BANK	1-6' MAX OVERSIGHT
1-4' BANK	1-5' MAX OVERSIGHT
1-3' BANK	1-4' MAX OVERSIGHT
1-2' BANK	1-3' MAX OVERSIGHT
1-1' BANK	1-2' MAX OVERSIGHT
1-0' BANK	1-1' MAX OVERSIGHT
0-9' BANK	1-0' MAX OVERSIGHT
0-8' BANK	0-9' MAX OVERSIGHT
0-7' BANK	0-8' MAX OVERSIGHT
0-6' BANK	0-7' MAX OVERSIGHT
0-5' BANK	0-6' MAX OVERSIGHT
0-4' BANK	0-5' MAX OVERSIGHT
0-3' BANK	0-4' MAX OVERSIGHT
0-2' BANK	0-3' MAX OVERSIGHT
0-1' BANK	0-2' MAX OVERSIGHT
0-0' BANK	0-1' MAX OVERSIGHT
0-0' BANK	0-0' MAX OVERSIGHT

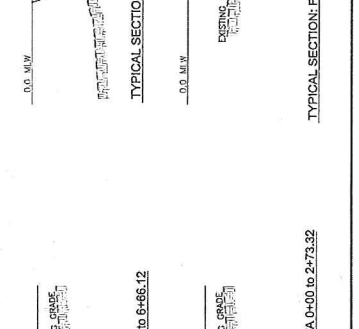
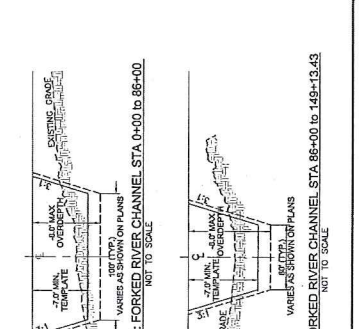
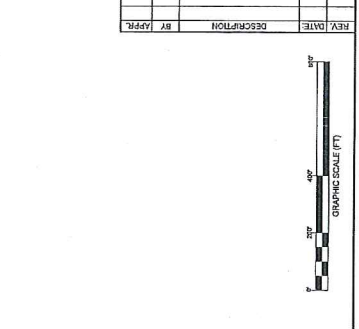
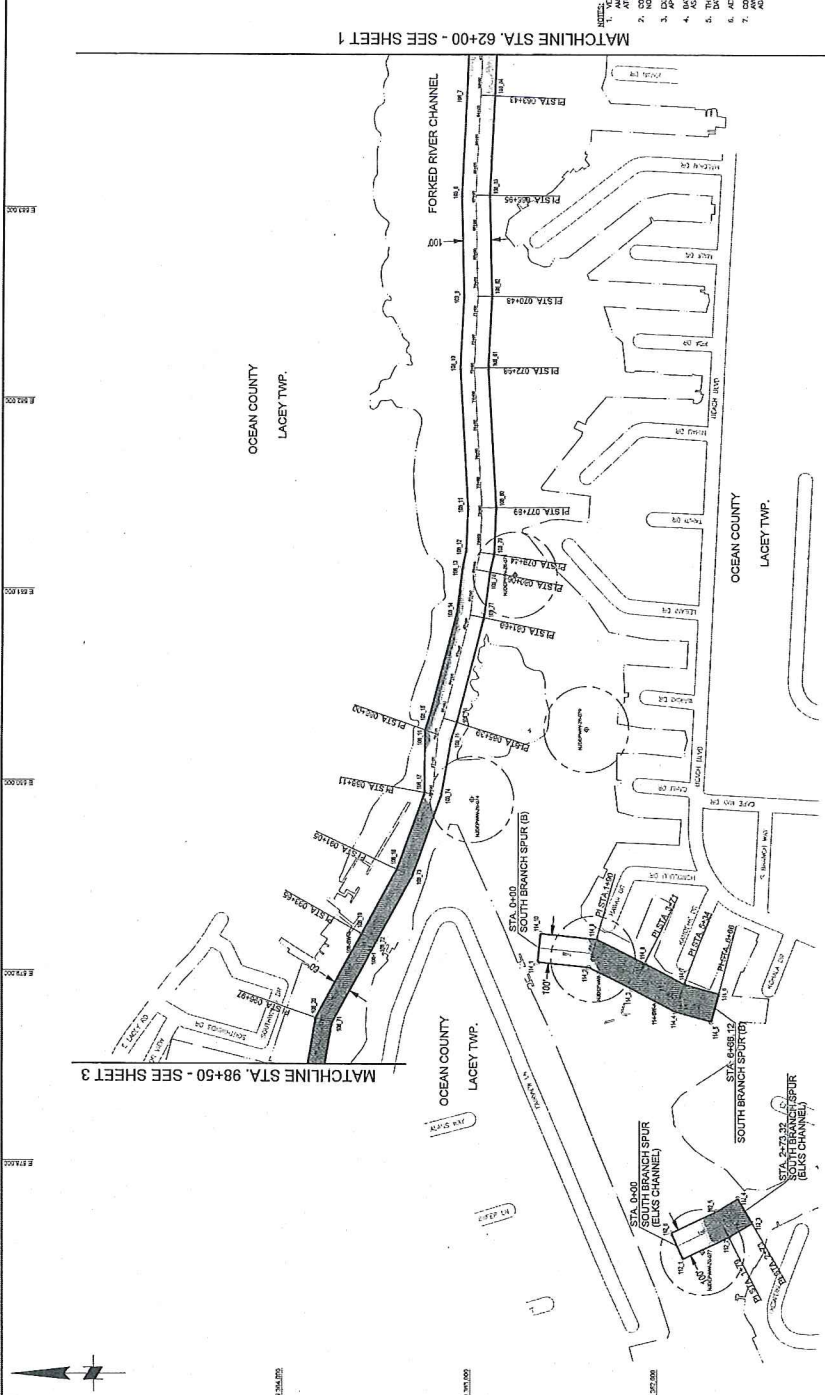
STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

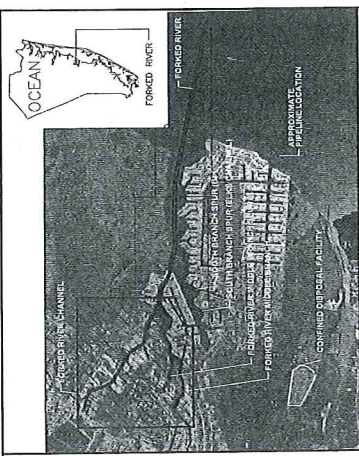
TITLE: MAINTENANCE OPERATIONS AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH SPUR (A), SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)

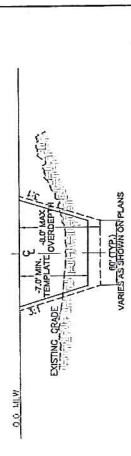
DRAWN BY: CEM	CHECKED BY: JET	NO. 1000000000	CERTIFICATION OF AUTHORIZATION
DATE: 07/15	DATE: 07/15	NO. 1000000000	NO. 1000000000

NEW JERSEY PROFESSIONAL ENGINEER
NO. 1000000000





CHANNEL LOCATION PLAN
N.T.S.



TYPICAL SECTION: FORKED RIVER CHANNEL STA 86+00 TO 149+13.43
NOT TO SCALE

- NOTES:**
1. CHANNEL DEPTH IS IN ACCORDANCE TO NEW YORK STATE CANAL ACT OF 1915. CHANNEL DEPTH SHALL BE 10 FEET. CHANNEL WIDTH SHALL BE 40 FEET. CHANNEL CENTERLINE SHALL BE 20 FEET FROM THE CENTERLINE OF THE EXISTING CHANNEL.
 2. APPROXIMATE CHANNEL LOCATION IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
 3. CHANNEL DEPTH IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
 4. CHANNEL WIDTH IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
 5. CHANNEL CENTERLINE IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
 6. CHANNEL DEPTH IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.
 7. CHANNEL WIDTH IS BASED ON AERIAL PHOTOGRAPHY AND FIELD SURVEY DATA.

LEGEND

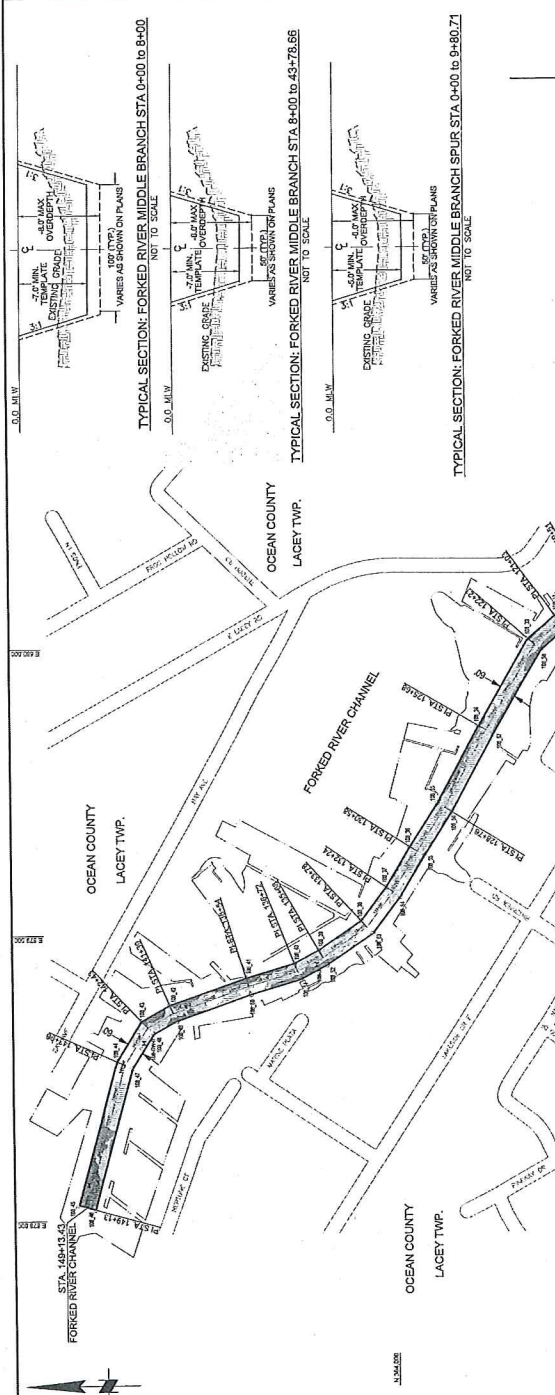
—	EXISTING CHANNEL
---	EXISTING ROAD/PAVEMENT
---	CHANNEL CENTERLINE
---	APPROXIMATE CHANNEL LOCATION
---	APPROXIMATE FACILITY LOCATION
---	CHANNEL SPACING AND WIDTH
---	HISTORIC STRUCTURES AND BARRIERS

STATE OF NEW JERSEY
N.JDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELAS CHANNEL), & SOUTH BRANCH SPUR (B)
CHANNEL ARRANGEMENT & GEOMETRY PLAN

PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELAS CHANNEL), & SOUTH BRANCH SPUR (B)

DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
DATE	DATE
PROJECT NO.	PROJECT NO.
SHEET 3 OF 15	SHEET 3 OF 15
DWG. NO. DRG-00	DWG. NO. DRG-00

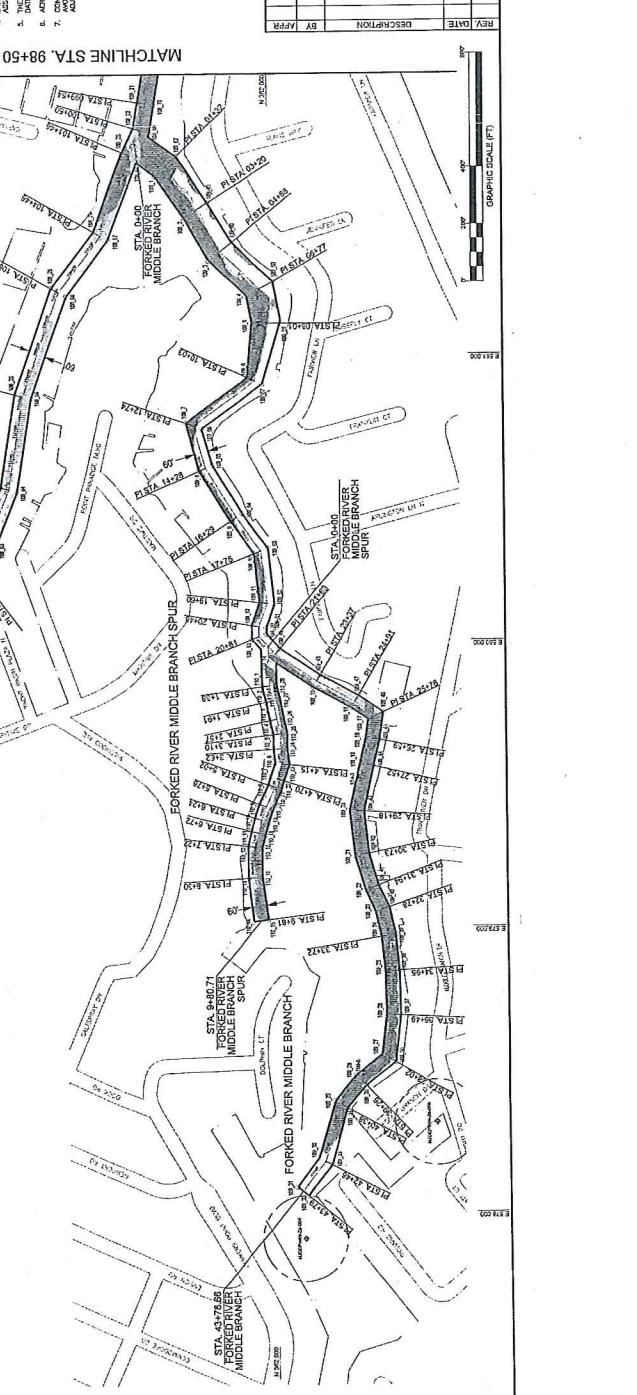


TYPICAL SECTION: FORKED RIVER MIDDLE BRANCH STA 0+00 TO 8+00
NOT TO SCALE

TYPICAL SECTION: FORKED RIVER MIDDLE BRANCH STA 8+00 TO 43+78.66
NOT TO SCALE

TYPICAL SECTION: FORKED RIVER MIDDLE BRANCH SPUR STA 0+00 TO 9+80.71
NOT TO SCALE

MATCHLINE STA. 98+50 - SEE SHEET 2



MATCHLINE STA. 98+50 - SEE SHEET 2

GRAPHIC SCALE (FT)

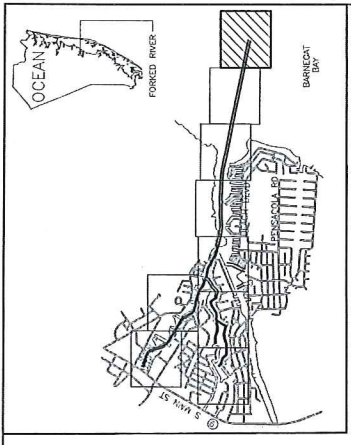
SCALE: AS SHOWN

DATE: 07/14

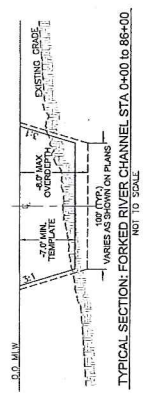
PROJECT NO. DRG-00

SHEET 3 OF 15

DWG. NO. DRG-00

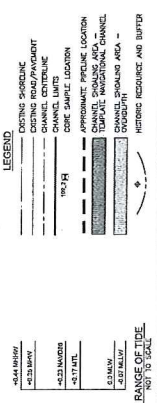


CHANNEL LOCATION PLAN
N.T.S.



TYPICAL SECTION: FORKED RIVER CHANNEL STA. 0+00 TO 86+00.
NOT TO SCALE.

- NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 10. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.



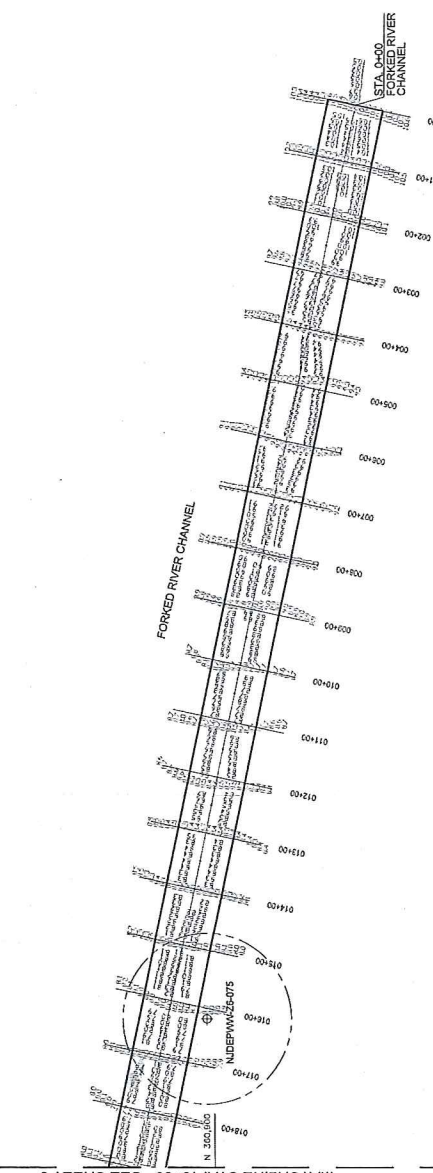
LEGEND

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR
FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR,
SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL BATHMETRY PLAN

PROJECT:	FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CLIENT:	NEW JERSEY DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE
DESIGNER:	DEWBERRY ENGINEERS, INC.
DRAWN BY:	JD
CHECKED BY:	BT
SCALE:	AS SHOWN
DATE:	07/10/18
PROJECT NO.:	1717
SHEET NO. OF 15	8
DWG. NO. DRG-06	

APPR.	DATE:	DESCRIPTION:



FORKED RIVER CHANNEL
STA. 0+00 TO 19+00

GRAPHIC SCALE (FT)

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR
FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR,
SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL BATHMETRY PLAN

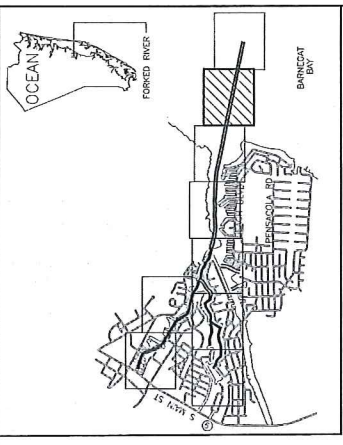
PROJECT:	FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CLIENT:	NEW JERSEY DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE
DESIGNER:	DEWBERRY ENGINEERS, INC.
DRAWN BY:	JD
CHECKED BY:	BT
SCALE:	AS SHOWN
DATE:	07/10/18
PROJECT NO.:	1717
SHEET NO. OF 15	8
DWG. NO. DRG-06	

APPR.	DATE:	DESCRIPTION:

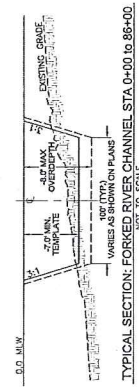
STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR
FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR,
SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL BATHMETRY PLAN

PROJECT:	FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)
CLIENT:	NEW JERSEY DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE
DESIGNER:	DEWBERRY ENGINEERS, INC.
DRAWN BY:	JD
CHECKED BY:	BT
SCALE:	AS SHOWN
DATE:	07/10/18
PROJECT NO.:	1717
SHEET NO. OF 15	8
DWG. NO. DRG-06	

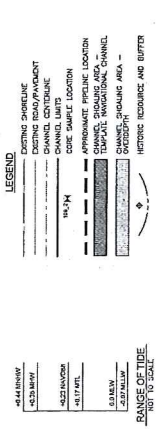


CHANNEL LOCATION PLAN
N.T.S.



TYPICAL SECTION: FORKED RIVER CHANNEL STA 0+00 TO 85+00
NOT TO SCALE

- NOTES:
1. THIS PLAN IS A SUPPLEMENT TO THE MAIN PLAN AND IS NOT TO BE CONSIDERED AS A SEPARATE PLAN. ALL INFORMATION SHOWN HEREON IS BASED ON THE INFORMATION FURNISHED BY THE NEW JERSEY STATE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AND THE NEW JERSEY STATE DEPARTMENT OF TREASURY AND REVENUE. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION AND DATA SHOWN ON THIS PLAN.
 2. EXISTING CHANNEL & BANK LOCATIONS BASED ON AERIAL PHOTOGRAPHS AND FIELD SURVEY DATA.
 3. PROPOSED CHANNEL & BANK LOCATIONS BASED ON AERIAL PHOTOGRAPHS AND FIELD SURVEY DATA.
 4. APPROXIMATE CHANNEL CENTERLINE LOCATIONS.
 5. THE INFORMATION CONTAINED ON THIS PLAN REPRESENTS THE RESULT OF A VISUAL INSPECTION OF THE PROJECT AREA AND DOES NOT CONSTITUTE A GUARANTEE OF ANY KIND. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION AND DATA SHOWN ON THIS PLAN.
 6. CONSTRUCTION TO CORRECT CHANNEL CENTERLINE WILL BE NECESSARY TO ACCURATELY LOCATE CHANNEL CENTERLINE. SUCH WORK SHALL BE THE RESPONSIBILITY OF THE USER.
 7. APPROXIMATE CHANNEL CENTERLINE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION AND DATA SHOWN ON THIS PLAN.
 8. APPROXIMATE CHANNEL CENTERLINE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION AND DATA SHOWN ON THIS PLAN.



LEGEND

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

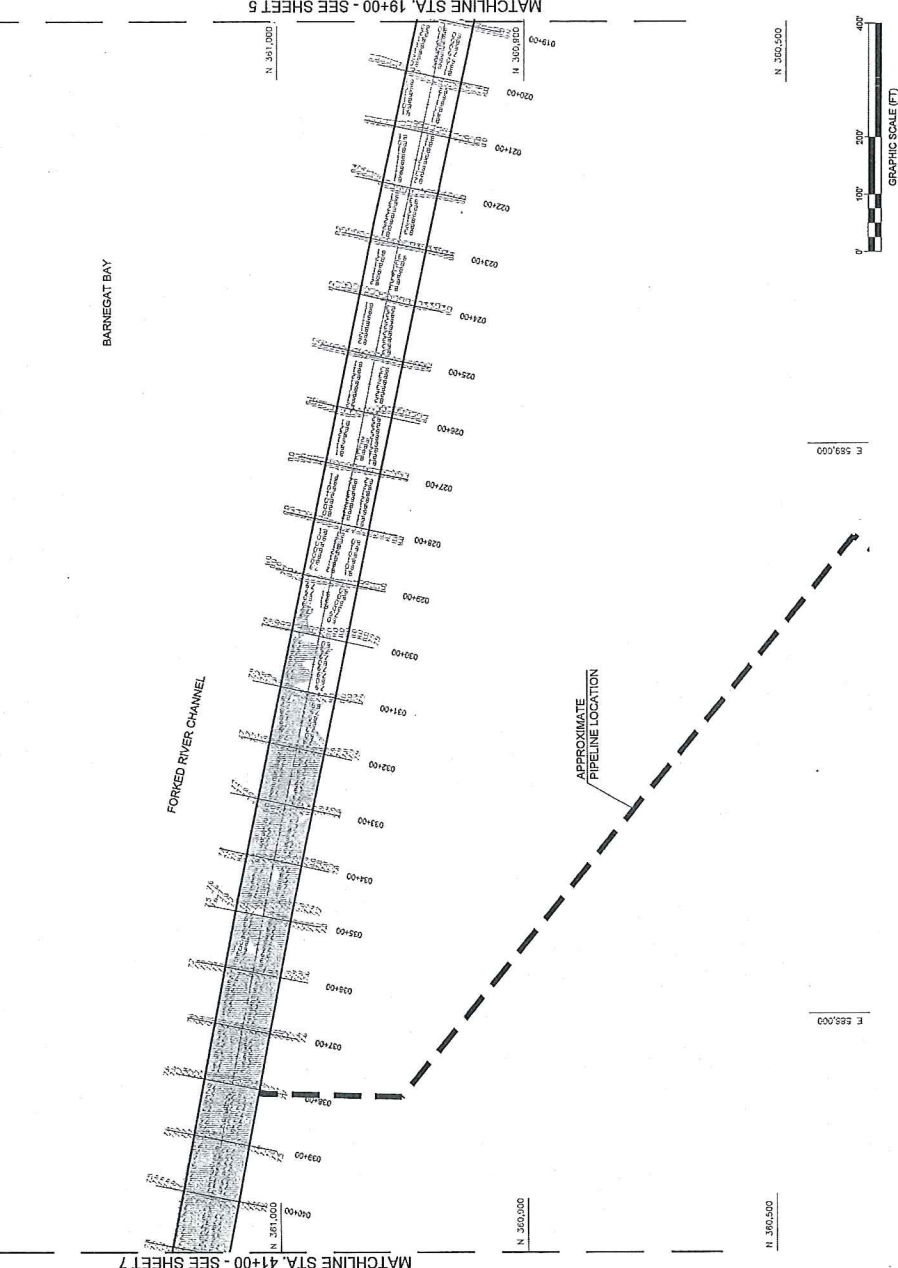
TITLE: MAINTENANCE, UPGRADE AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKUS CHANNEL) & SOUTH BRANCH SPUR (B) CHANNEL BATHMETRY PLAN

PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKUS CHANNEL) & SOUTH BRANCH SPUR (B) CHANNEL BATHMETRY PLAN

DESIGNED BY: CDM
DRAWN BY: CDM
CHECKED BY: ST
SCALE: AS SHOWN
DATE: 07/16

DESIGNED BY: CDM
DRAWN BY: CDM
CHECKED BY: ST
SCALE: AS SHOWN
DATE: 07/16

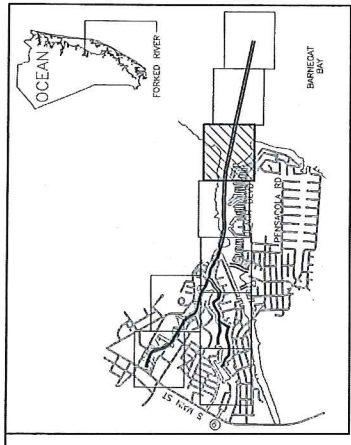
DESIGNED BY: CDM
DRAWN BY: CDM
CHECKED BY: ST
SCALE: AS SHOWN
DATE: 07/16



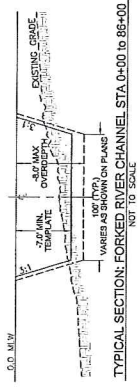
GRAPHIC SCALE (FT)

MATCHLINE STA. 41+00 - SEE SHEET 7

MATCHLINE STA. 19+00 - SEE SHEETS 5



CHANNEL LOCATION PLAN
N.T.S.



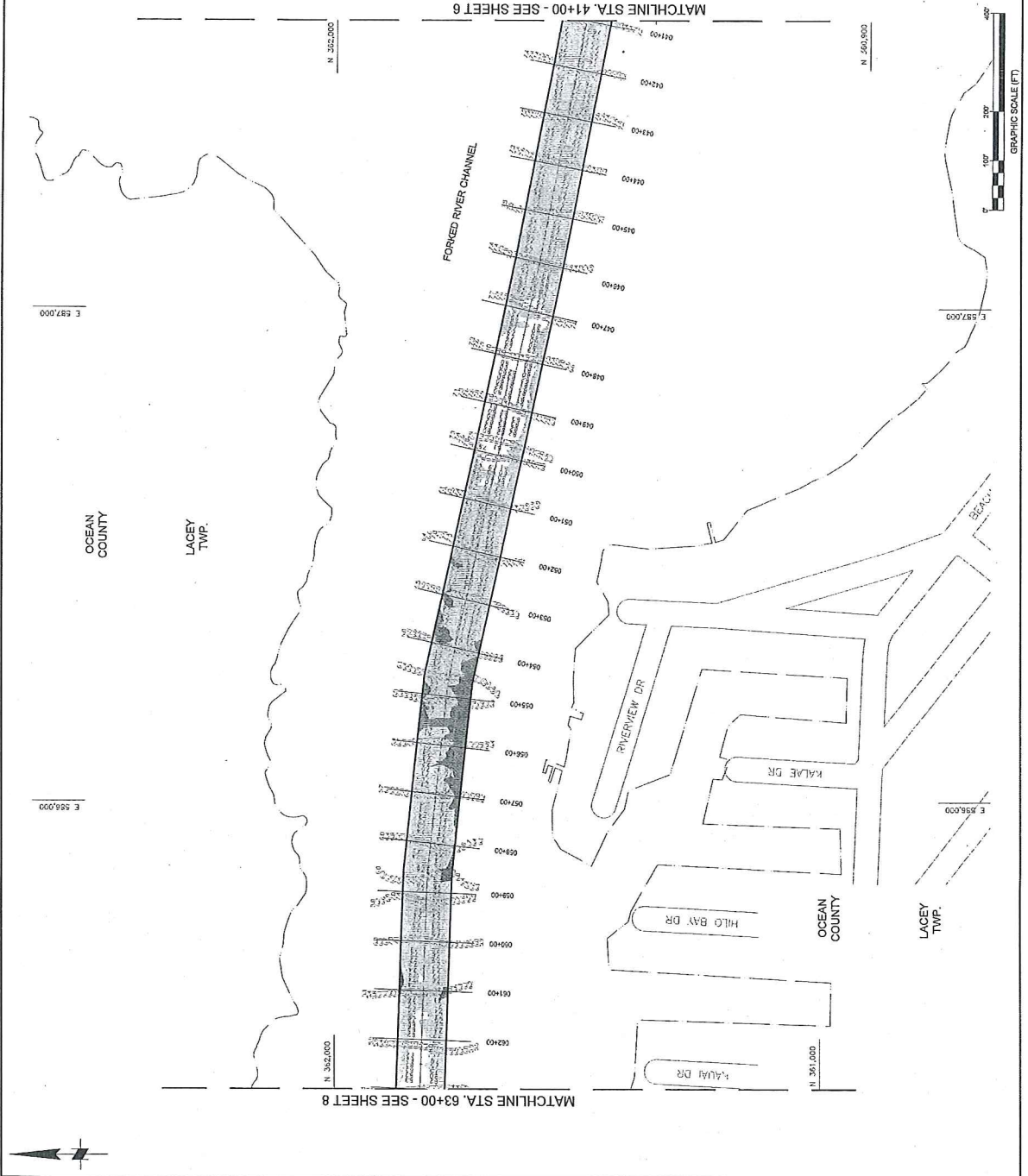
TYPICAL SECTION: FORCED RIVER CHANNEL STA. 0+00 TO 86+00
NOT TO SCALE

1. THIS PLAN IS SUBMITTED TO SHOW THE PROPOSED IMPROVEMENTS TO THE FORCED RIVER CHANNEL AND TO SHOW THE EXISTING GRADE AND CHANNEL CENTERLINE. THE PROPOSED IMPROVEMENTS ARE BASED ON THE RESULTS OF A CHANNEL SURVEY CONDUCTED ON THE ABOVE DESCRIBED CHANNEL IN THE YEAR 2010. THE SURVEY WAS CONDUCTED BY THE NEW JERSEY STATE COSMOGRAPHIC INFORMATION PROGRAM.
2. THE PROPOSED IMPROVEMENTS ARE BASED ON THE RESULTS OF A CHANNEL SURVEY CONDUCTED ON THE ABOVE DESCRIBED CHANNEL IN THE YEAR 2010. THE SURVEY WAS CONDUCTED BY THE NEW JERSEY STATE COSMOGRAPHIC INFORMATION PROGRAM.
3. EXISTING CHANNELS ARE SHOWN AS DOTTED LINES AND PROPOSED CHANNELS ARE SHOWN AS SOLID LINES. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.
4. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.
5. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.
6. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.
7. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.
8. CHANNEL CENTERLINES ARE SHOWN AS DOTTED LINES AND CHANNEL BATHYMETRY AREAS ARE SHOWN AS SOLID LINES.

LEGEND

- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- EXISTING CHANNEL BATHYMETRY
- PROPOSED CHANNEL BATHYMETRY
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- EXISTING CHANNEL BATHYMETRY
- PROPOSED CHANNEL BATHYMETRY

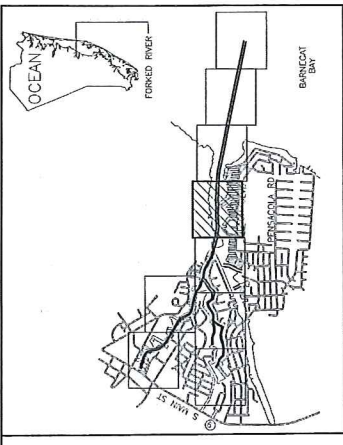
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORCED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)	
CHANNEL BATHYMETRY PLAN	
PROJECT: FORCED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)	
DESIGNED BY: J. J. HARRIS	CHECKED BY: J. J. HARRIS
DATE: 07/16	SCALE: AS SHOWN
PROJECT NO.: 103-26202100	SHEET 7 OF 15
DESIGNED BY: J. J. HARRIS	NEW JERSEY PROFESSIONAL ENGINEER
CERTIFICATION OF AUTHORIZATION	DATE: 07/16
SCALE: AS SHOWN	DATE: 07/16
DATE: 07/16	DATE: 07/16



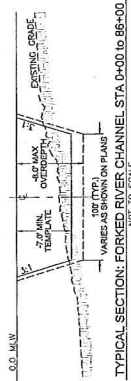
MATCHLINE STA. 63+00 - SEE SHEET 8

MATCHLINE STA. 41+00 - SEE SHEET 6

GRAPHIC SCALE (FT)



CHANNEL LOCATION PLAN
N.T.S.

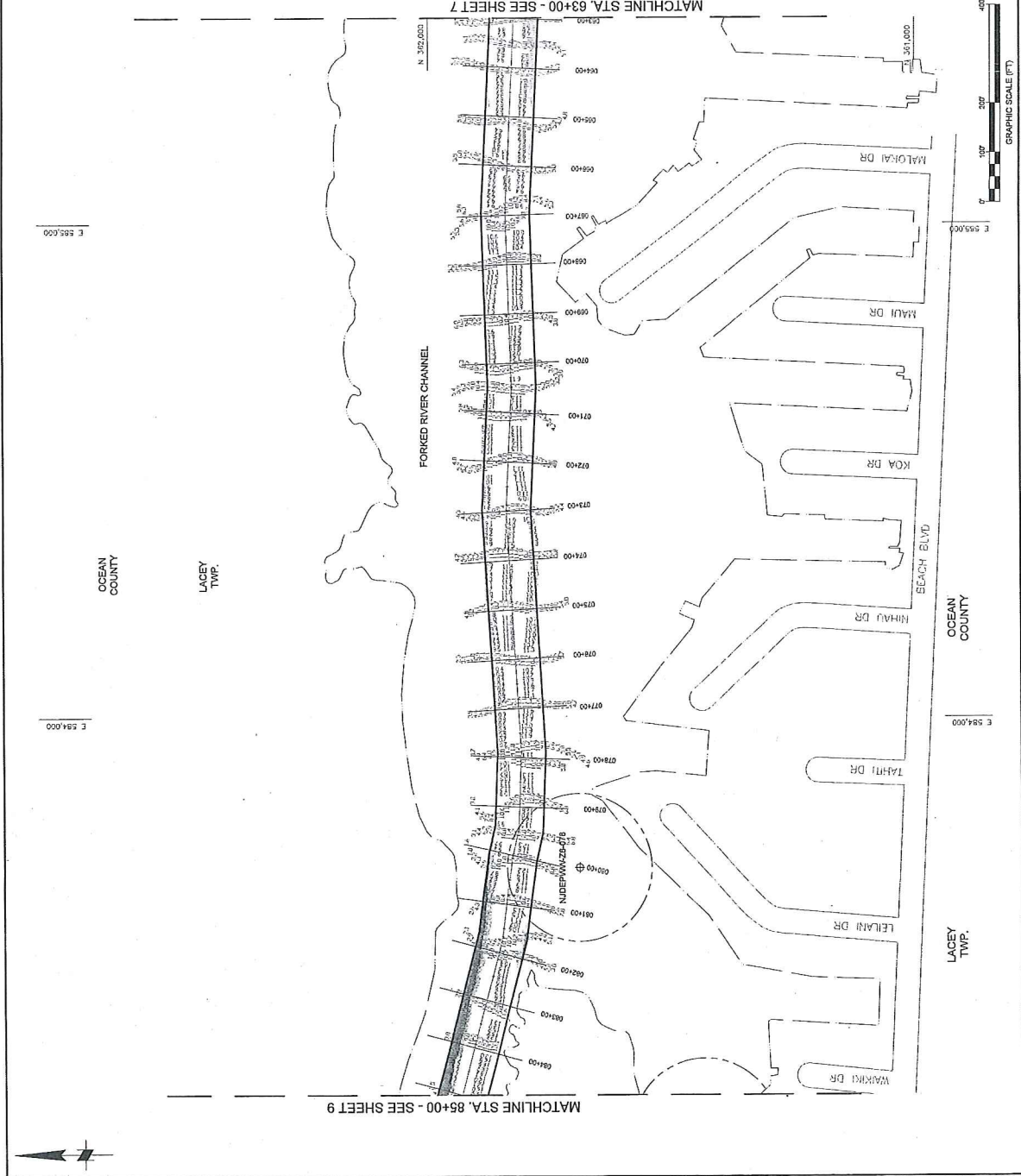


TYPICAL SECTION: FORKED RIVER CHANNEL STA 0+00 TO 86+00
NOT TO SCALE

- NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.

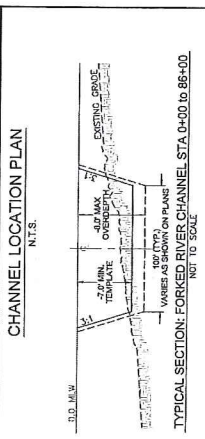
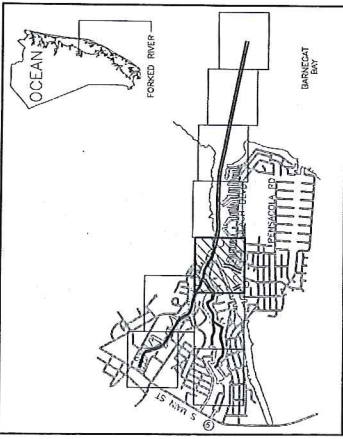
- LEGEND:
- EXISTING CHANNEL
 - PROPOSED CHANNEL
 - APPROXIMATE CHANNEL LOCATION
 - CHANNEL SHOULDER AREA
 - CHANNEL SHOULDER AND BUFFER

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES	
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELIG CHANNEL) & SOUTH BRANCH SPUR (B) CHANNEL BATHMETRY PLAN	
PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELIG CHANNEL) & SOUTH BRANCH SPUR (B) CHANNEL BATHMETRY PLAN	PROJECT NO. 171/17
DRAWN BY: GEM	CHECKED BY: JAMES D. REBER
DESIGNED BY: JAMES D. REBER	DATE: 07/16
SCALE: AS SHOWN	NO. 340000000
DATE: 07/16	NO. 340000000

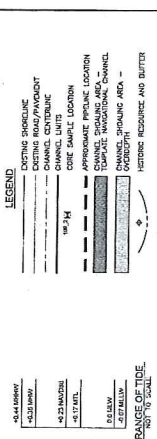


MATCHLINE STA. 85+00 - SEE SHEET 9

MATCHLINE STA. 63+00 - SEE SHEET 7



- NOTES:**
- VERTICAL DATA IS IN REFERENCE TO MEAN LOW WATER (MLW) IS 0.23 FEET BELOW THE NORTH DATUM. THE DATUM IS THE MEAN LOW WATER DATUM FOR THE FORKED RIVER CHANNEL.
 - COORDINATES ARE EXPRESSED IN FEET AND INCHES TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983.
 - APPROXIMATE 2' BUCK LAYOUTS BASED ON Aerial Imagery AND SHOULD BE CONSIDERED APPROXIMATE.
 - THE INFORMATION ON THIS PLAN REPRESENTS THE RESULTS OF SURVEY CONDUCTED ON THE AFORE SAID DATE AND CAN BE CONSIDERED AS INDICATING THE EXISTING CHANNEL DITCHING AT THAT TIME.
 - AERIAL IMAGERY FROM NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.
 - THIS PLAN IS A PRELIMINARY DESIGN AND SHOULD BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CHANNEL DITCHING AND OTHER STRUCTURES TO BE MAINTAINED OR REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CHANNEL DITCHING AND OTHER STRUCTURES TO BE MAINTAINED OR REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CHANNEL DITCHING AND OTHER STRUCTURES TO BE MAINTAINED OR REMOVED.
 - SHOWN, RECONSTRUCTED, AND EXISTING CHANNELS ARE INDICATED BY THE SHADING AND LINE STYLES.



STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

CHANNEL BATHYMETRY PLAN

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE FORKED RIVER CHANNEL, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELKS CHANNEL) & SOUTH BRANCH SPUR (B)

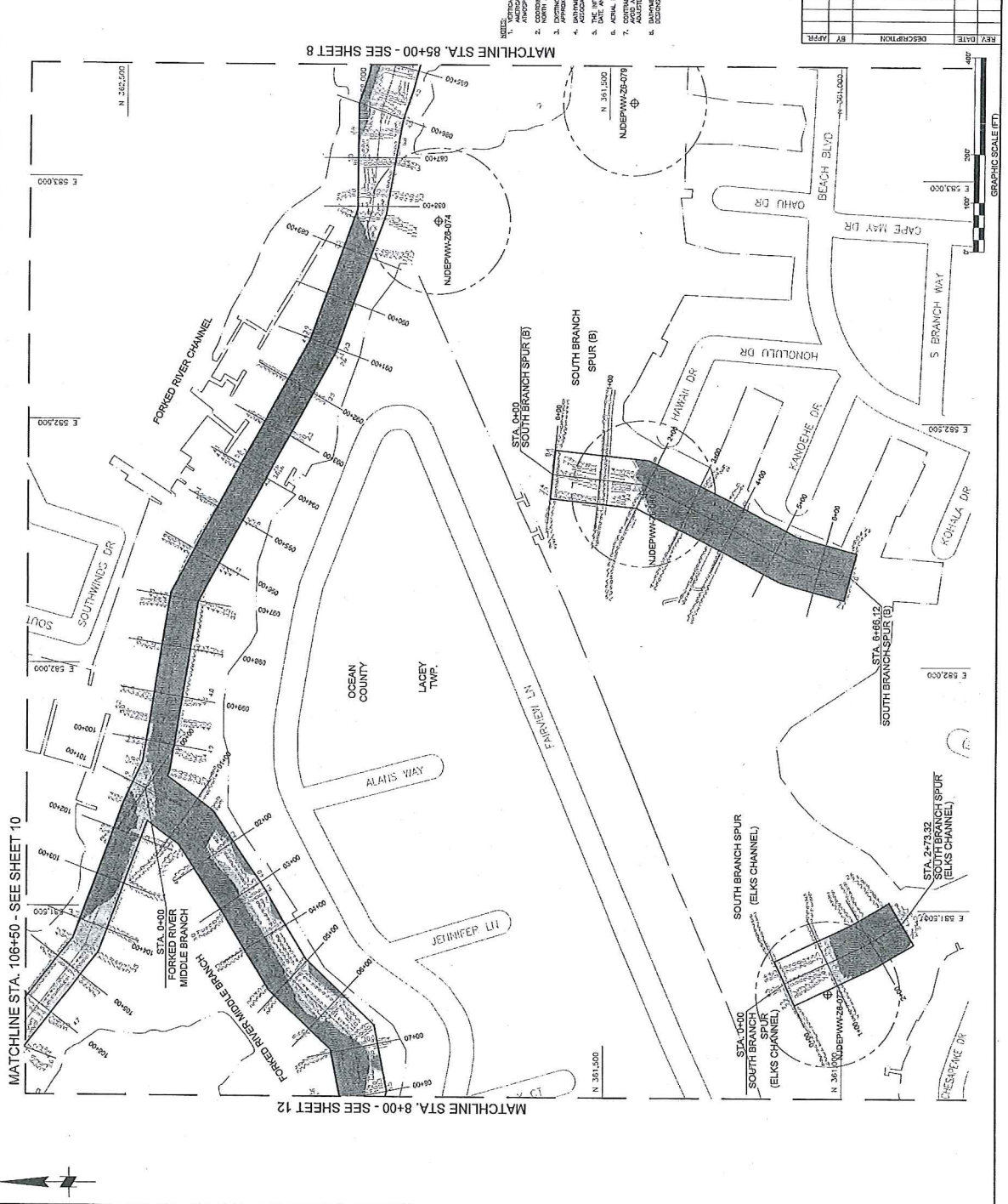
PROJECT: SOUTH BRANCH SPUR TO OCEAN COUNTY, NEW JERSEY

DRAWN BY: CEM
CHECKED BY: FT
SCALE: AS SHOWN
DATE: 07/19/16

DESIGNED BY: CEM
PROJECT NO: NJDOT-16-00000000
DRAWING NO: 2450000000

DESIGNED BY: CEM
PROJECT NO: NJDOT-16-00000000
DRAWING NO: 2450000000

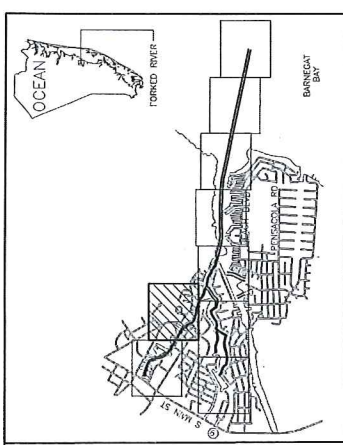
DESIGNED BY: CEM
PROJECT NO: NJDOT-16-00000000
DRAWING NO: 2450000000



GRAPHIC SCALE (FT)

0 50 100

REV	DATE	DESCRIPTION	BY	APP'R



CHANNEL LOCATION PLAN
N.T.S.



TYPICAL SECTION: FORKED RIVER CHANNEL STA 88+00 TO 149+13.43
NOT TO SCALE

- NOTES:**
1. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 10. ALL DIMENSIONS TO BE AS SHOWN UNLESS OTHERWISE NOTED.

LEGEND

—	EXISTING CHANNEL
—	EXISTING ROAD/PAVEMENT
—	CHANNEL CENTERLINE
—	APPROXIMATE CHANNEL LOCATION
—	APPROXIMATE PONDING LOCATION
—	CHANNEL CROSSING AND UTILITY CROSSING
—	CHANNEL CROSSING AREA
—	HISTORIC SOURCE AND BUFFER

STATE OF NEW JERSEY
N.J.DOT OFFICE OF MARITIME RESOURCES

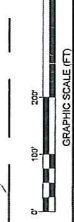
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL) & SOUTH BRANCH SPUR (B)
CHANNEL BATHYMETRY PLAN

PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL), SOUTH BRANCH SPUR (B)
LACEY TOWNSHIP, OCEAN COUNTY, NEW JERSEY

DRAWN BY: CEM
CHECKED BY: ET
DATE: 07/16

DESIGNED BY: JAMES D. REBER
DATE: 07/16

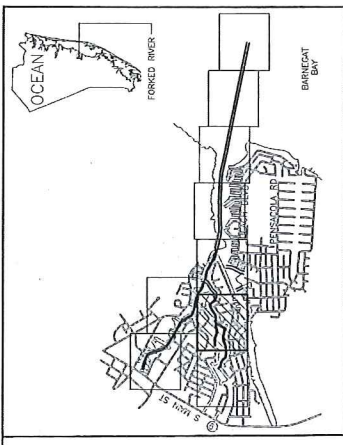
PROFESSIONAL ENGINEER



MATCHLINE STA. 106+50 - SEE SHEET 9

MATCHLINE STA. 127+00 - SEE SHEET 11

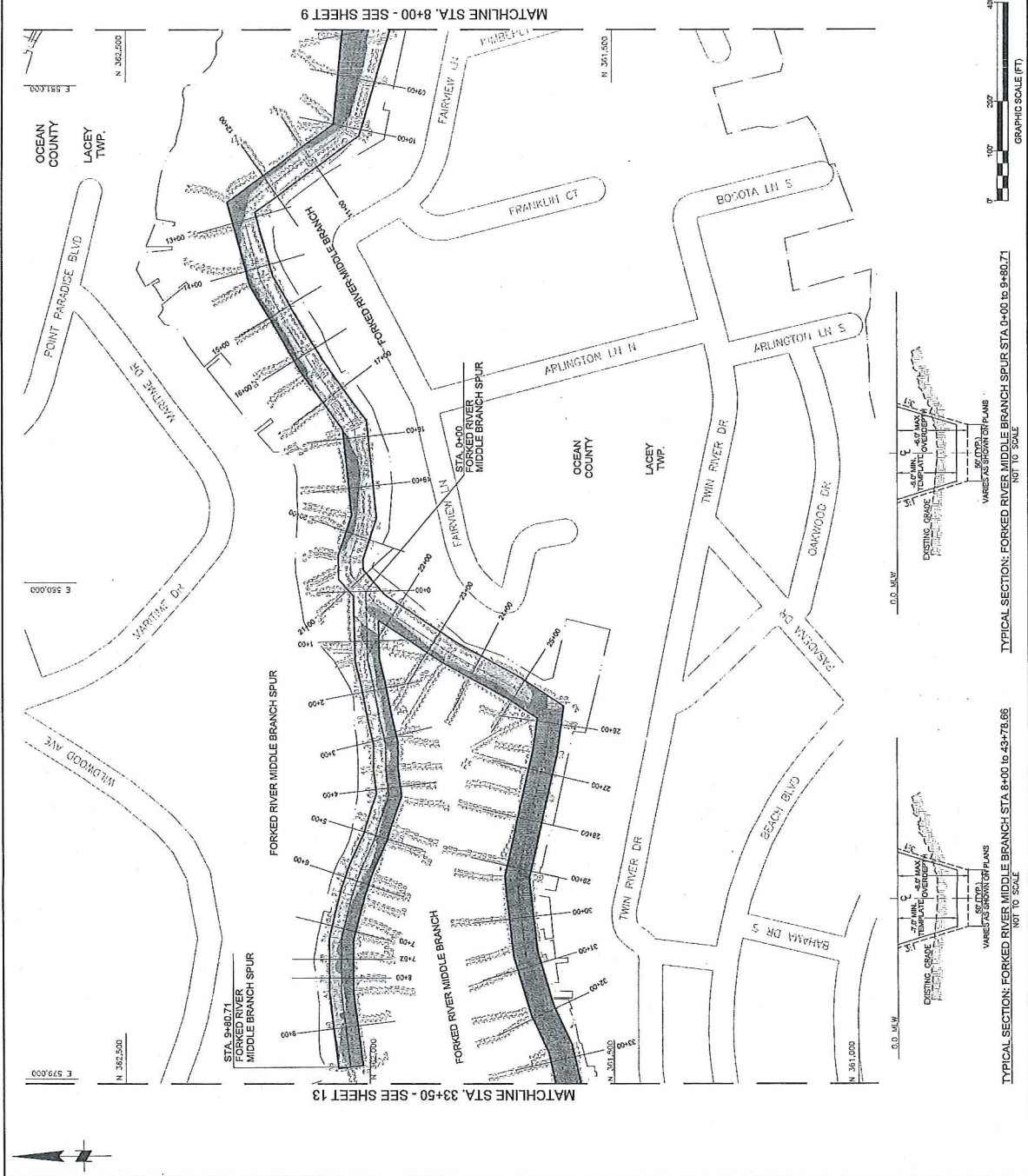




CHANNEL LOCATION PLAN N.T.S.

- GENERAL NOTES: IN REFERENCE TO NEW LOW WATER (NLW) AS 2.22 FEET ABOVE THE 1983 NAVD83 VERTICAL DATUM OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION, THE NLW POSITION SHALL BE THE NEW JERSEY STATE COORDINATE SYSTEM.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.
- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE DIVISION'S STANDARD SPECIFICATIONS FOR BRIDGE AND INFRASTRUCTURE.

REV.	DATE	DESCRIPTION	BY	APPR.	
STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES					
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (EIAS CHANNEL) & SOUTH BRANCH SPUR (B)					
CHANNEL BATHYMETRY PLAN					
PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (EIAS CHANNEL) & SOUTH BRANCH SPUR (B)					
DESIGNED BY:	DAVID A. HERRIN	PROJECT NO.:	777/11	SHEET NO.:	15
CHECKED BY:	JAMES D. HERRIN	DESIGNER:	DAVID A. HERRIN	DWG. NO.:	MRG-12
SCALE:	AS SHOWN	DATE:	07/19		
DRAWN BY:	COM				
CHECKED BY:	ST				
DATE:	07/19				



MATCHLINE STA. 8+00 - SEE SHEET 9

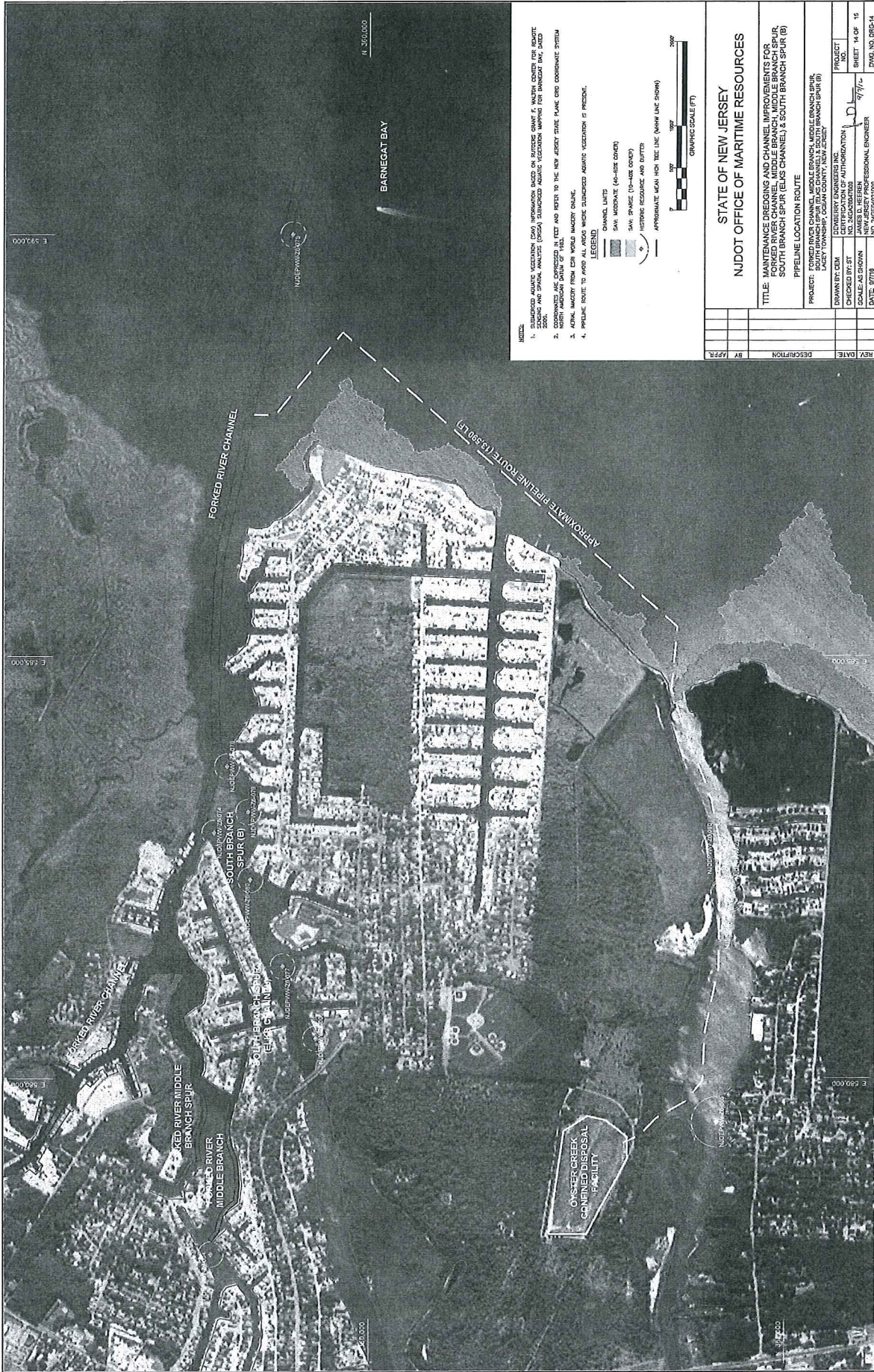
MATCHLINE STA. 33+50 - SEE SHEET 13

OCEAN COUNTY LACEY TWP.

OCEAN COUNTY LACEY TWP.

TYPICAL SECTION: FORKED RIVER MIDDLE BRANCH SPUR STA. 0+00 TO 8+80.71

TYPICAL SECTION: FORKED RIVER MIDDLE BRANCH STA. 8+00 TO 43+78.65



- NOTES:**
- 1. SUBMERGED ANCHOR VEXCORATION (SAV) INFORMATION BASED ON SURFACE QUANT OF WATER DEPTH FOR SUBMERGENCE AND SPANAL ANCHORS (SAA) SUBMERGED ANCHOR VEXCORATION APPROPRIATE FOR WINDLIFT BENT STACKS.
 - 2. SUBMERGED ANCHOR VEXCORATION (SAV) INFORMATION BASED ON SURFACE QUANT OF WATER DEPTH FOR SUBMERGENCE AND SPANAL ANCHORS (SAA) SUBMERGED ANCHOR VEXCORATION APPROPRIATE FOR WINDLIFT BENT STACKS.
 - 3. GENERAL MAINTENANCE ROUTE TO BE MAINTAINED FROM CSW WORLD MARINE SERVICE.
 - 4. PIPELINE ROUTE TO AVOID ALL AREAS WHERE SUBMERGED ANCHOR VEXCORATION IS PRESENT.

LEGEND

(Symbol: Light Gray Fill)	CHANNEL LIMITS
(Symbol: Gray Fill)	SAV MODERATE (10-30% COVER)
(Symbol: Darker Gray Fill)	SAV SPARSE (10-30% COVER)
(Symbol: Circle with Cross)	HISTORIC RESOURCE AND BUFFER
(Symbol: Dashed Line)	APPROXIMATE WALK HIGH TIDE LINC (MHW LINC SHOWN)

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

TITLE: MAINTENANCE PRECING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL) & SOUTH BRANCH SPUR (B)

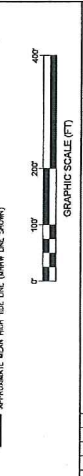
PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR (ELUS CHANNEL), & SOUTH BRANCH SPUR (B)

DESIGNED BY: ST	DATE: 07/16	PROJECT NO:	
CHECKED BY: ST		CERTIFICATION OF AUTHORIZATION:	
DRAWN BY: STM		JAMES D. HEERSON	
SCALE: AS SHOWN		NEW JERSEY PROFESSIONAL ENGINEER	
DATE: 07/16		NO. 100002630202	



NOTES:
 1. AIRTEL MAPS BY NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.
 2. AIRTEL MAPS BY NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.
 3. AIRTEL MAPS BY NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.
 4. AIRTEL MAPS BY NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.
 5. AIRTEL MAPS BY NEW JERSEY STATE GEOGRAPHIC INFORMATION NETWORK, DATED 2015.

LEGEND:
 ——— APPROXIMATE MEAN HIGH TIDE LINE (WWW.LINC.2016M)



STATE OF NEW JERSEY
 NIDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR, ELKS CHANNEL & SOUTH BRANCH SPUR (B)
 PROJECT: FORKED RIVER CHANNEL, MIDDLE BRANCH, MIDDLE BRANCH SPUR, SOUTH BRANCH SPUR, ELKS CHANNEL & SOUTH BRANCH SPUR (B)
 CONFINED DISPOSAL FACILITY PLAN

REV.	DATE	DESCRIPTION	BY	APPD.

DRAWN BY: CBM	CONVEYER ENGINEERS INC.	PROJECT NO.	
CHECKED BY: ST	CERTIFICATION OF AUTHORIZATION	SHEET #	15
DATE: 6/11/20	JAMES D. HERGEN	DATE: 6/11/20	
	PROFESSIONAL ENGINEER		
	NO. 40000000000000		