



**US Army Corps
of Engineers®**

PUBLIC NOTICE

Applicant:
Genevieve Clifton
New Jersey Department of
Transportation

Published:
Expires:

**New York District
Permit Application No. NAN-2024-00075-MKO**

TO WHOM IT MAY CONCERN: The New York District of the U.S. Army Corps of Engineers (Corps) 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). The purpose of this public notice is to solicit comments from the public regarding the work described below:

APPLICANT: Genevieve Clifton
New Jersey Department of Transportation
1035 Parkway Avenue
P.O Box 600

AGENT: Katie Axt
WSP USA Inc.
250 W 4th Street
4th Floor
New York, New York 10119

WATERWAY AND LOCATION: The project would affect waters of the United States and navigable waters of the United States associated with Shrewsbury River Basin. The project/review area is located in the Shrewsbury River Basin channels 16-24, 26-28, and 31, in Monmouth County, New Jersey.

EXISTING CONDITIONS: Existing water depths range from 5 feet below MLW (near the shoreline) to 7 feet below MLW.

PROJECT PURPOSE:

Overall: The purpose of the project is to continue to provide safe depths for navigation throughout the Shrewsbury River Basin.

PROPOSED WORK: The applicant requests authorization to maintenance dredge with ten-years maintenance, by hydraulic cutterhead pipeline dredging, approximately 242,120-cubic yards (CY) of material from multiple state channels to extend to a depth of six feet below the plane of Mean Low Water (MLW) with one foot of allowable over dredging for an approximate total of 242,120CY. The dredge material will be pumped

into geotextile bags and placed at the Shrewsbury Basin Dredge Material Management Facility in Rumson, Monmouth County for dewatering and future beneficial use.

AVOIDANCE AND MINIMIZATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment: preventing barge overflow of dredge material, and by the pipeline being sunk except when existing the dredge, as it approaches the placement site to avoid SAV beds.

COMPENSATORY MITIGATION: The applicant has provided the following explanation why compensatory mitigation should not be required: The Project would require temporary disturbance to state open water (SOW) areas in the multiple channels in the Shrewsbury River Basin. Work does not impact wetlands, subtidal or intertidal areas. Work will have a de minimis and temporary impact on general water areas and area has been previously dredged, thus work is not disturbing previously undisturbed areas and thus, mitigation is not required.

CULTURAL RESOURCES:

The Corps evaluated the undertaking pursuant to Section 106 of the National Historic Preservation Act (NHPA) utilizing its existing program-specific regulations and procedures along with 36 CFR Part 800. The Corps' program-specific procedures include 33 CFR 325, Appendix C, and revised interim guidance issued in 2005 and 2007, respectively. The District Engineer consulted district files and records and the latest published version of the National Register of Historic Places and initially determines that:

No historic properties (i.e., properties listed in or eligible for inclusion in the National Register of Historic Places) are present within the Corps' permit area; therefore, there will be no historic properties affected. The Corps subsequently requests concurrence from the SHPO and/or THPO.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

ENDANGERED SPECIES: The Corps has performed an initial review of the application, the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), National Marine Fisheries Service (NMFS) Greater Atlantic Region Section 7 Mapper, and the NMFS Critical Habitat Mapper to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur within the boundary of the proposed project. Based on this initial review, the Corps has made a preliminary determination that the proposed project may affect species and critical habitat listed in Table 1. No other ESA-listed species or critical habitat will be affected by the proposed action.

Table 1: ESA-listed species and/or critical habitat potentially present in the action area.

Common Name	Scientific Name	Status	Agency
Atlantic Sturgeon	<i>Acipenser oxyrinchus oxyrinchus</i>	Endangered	NMFS
Tricolored Bat	<i>Perimyotis subflavus</i>	Proposed Endangered	USFWS
Monarch Butterfly	<i>Danaus Plexippus</i>	Proposed Threatened	USFWS
Green sea turtle	<i>Chelonia mydas</i>	Threatened	USFWS
Kemp's ridley sea turtle	<i>Lepidochelys kempii</i>	Endangered	USFWS
Leatherback sea turtle	<i>Dermochelys coriacea</i>	Endangered	USFWS
Loggerhead sea turtle	<i>Caretta caretta</i>	Threatened	USFWS

Pursuant to Section 7 ESA, any required consultation with the Service(s) will be conducted in accordance with 50 CFR part 402.

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

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

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

Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NAVIGATION: The proposed dredging will take place in state channels that connect to federal navigation channels.

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

WATER QUALITY CERTIFICATION: Reviews of activities pursuant to Section 404 of the Clean Water Act 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 and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

COASTAL ZONE MANAGEMENT ACT: Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

OTHER AUTHORIZATIONS: In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

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

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the

activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

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

The New York District will receive written comments on the proposed work, as outlined above, until the expiration date of this public notice. Comments should be submitted electronically via the Regulatory Request System (RRS) at <https://rrs.usace.army.mil/rrs> or to Zachary Kocsik at Zachary.J.Kocsik@usace.army.mil. Please refer to the permit application number in your comments.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

In order for us to better serve you, please complete our Customer Service Survey located at <https://www.nan.usace.army.mil/Missions/Regulatory/Customer-Survey/>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

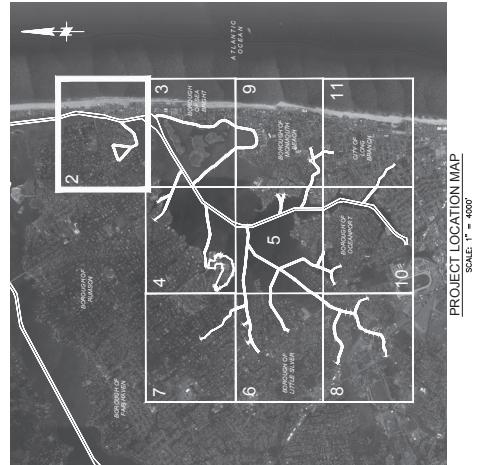
[FOR AND IN BEHALF OF]

Stephan A. Ryba

Chief, Regulatory Branch

NOTES.

1. CHANNEL GEOMETRY AND VERTICAL DATUM VARY FOR EACH CHANNEL AND IS SHOWN ON SHEETS 13-14.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE (MHW) & DICK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
4. AERIAL IMAGERY IS FROM GOOGLE MAPS, DATED MAY 2019.



LEGEND

CHANNEL, CENTERLINE	- - -
CHANNEL LIMITS	— — —
FEDERAL CHANNEL, CENTERLINE	— — — — —
FEDERAL CHANNEL LIMITS	— — — — — —
APPROXIMATE SHORELINE (MWL)
APPROXIMATE PIPELINE LOCATION
EXISTING ROAD/PAVEMENT	— — — — —
CACHE LIMITS (SEE NOAA CHART 12242)	— — — — — —
MUNICIPALITY LIMIT	— — — — — — —
APPROXIMATE BRIDGE AREA	— — — — — — — —
CHANNEL SAMPLE LOCATION	— — — — — — — — —
HISTORIC RESOURCE, AND BUFFER	— — — — — — — — — —

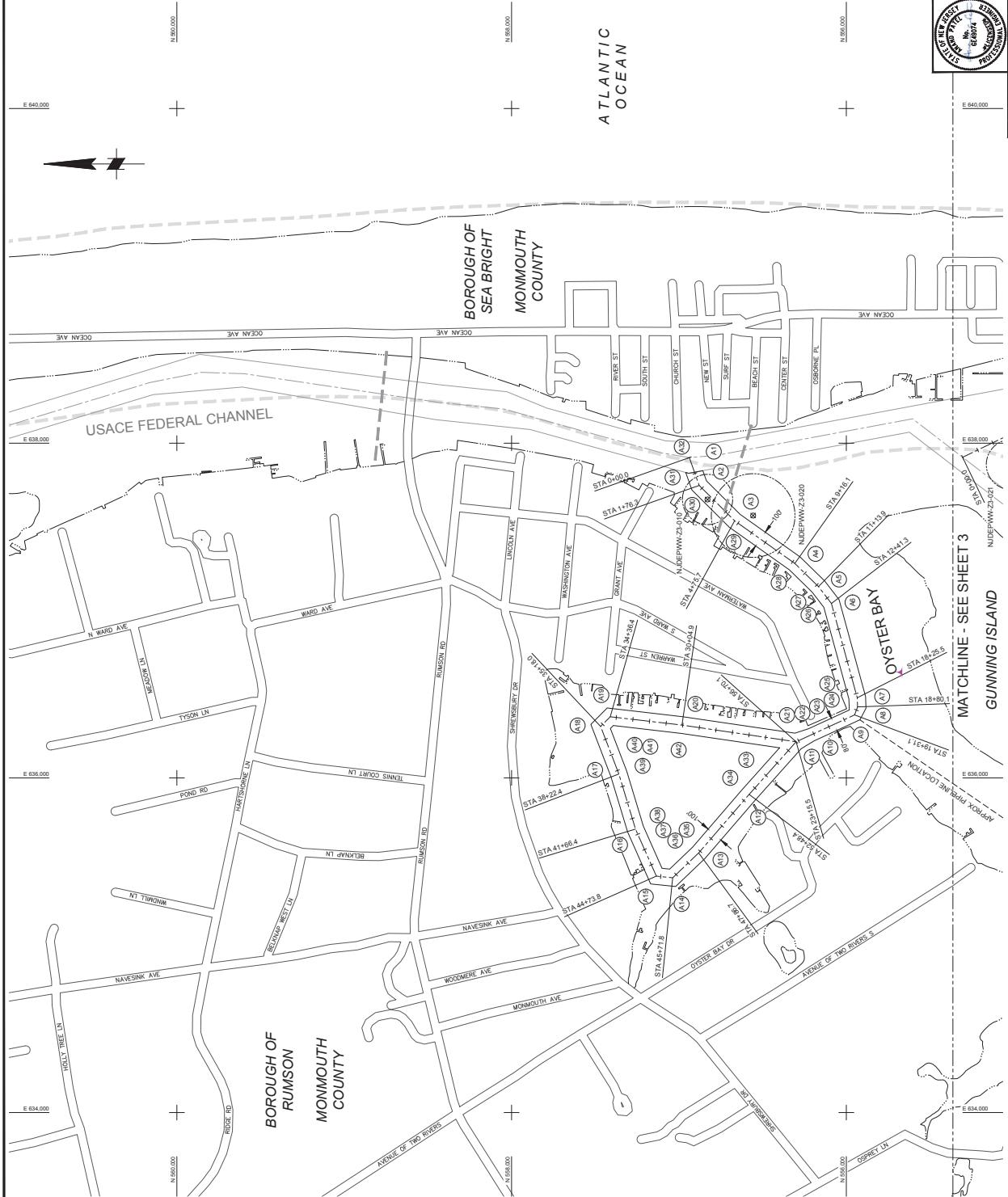
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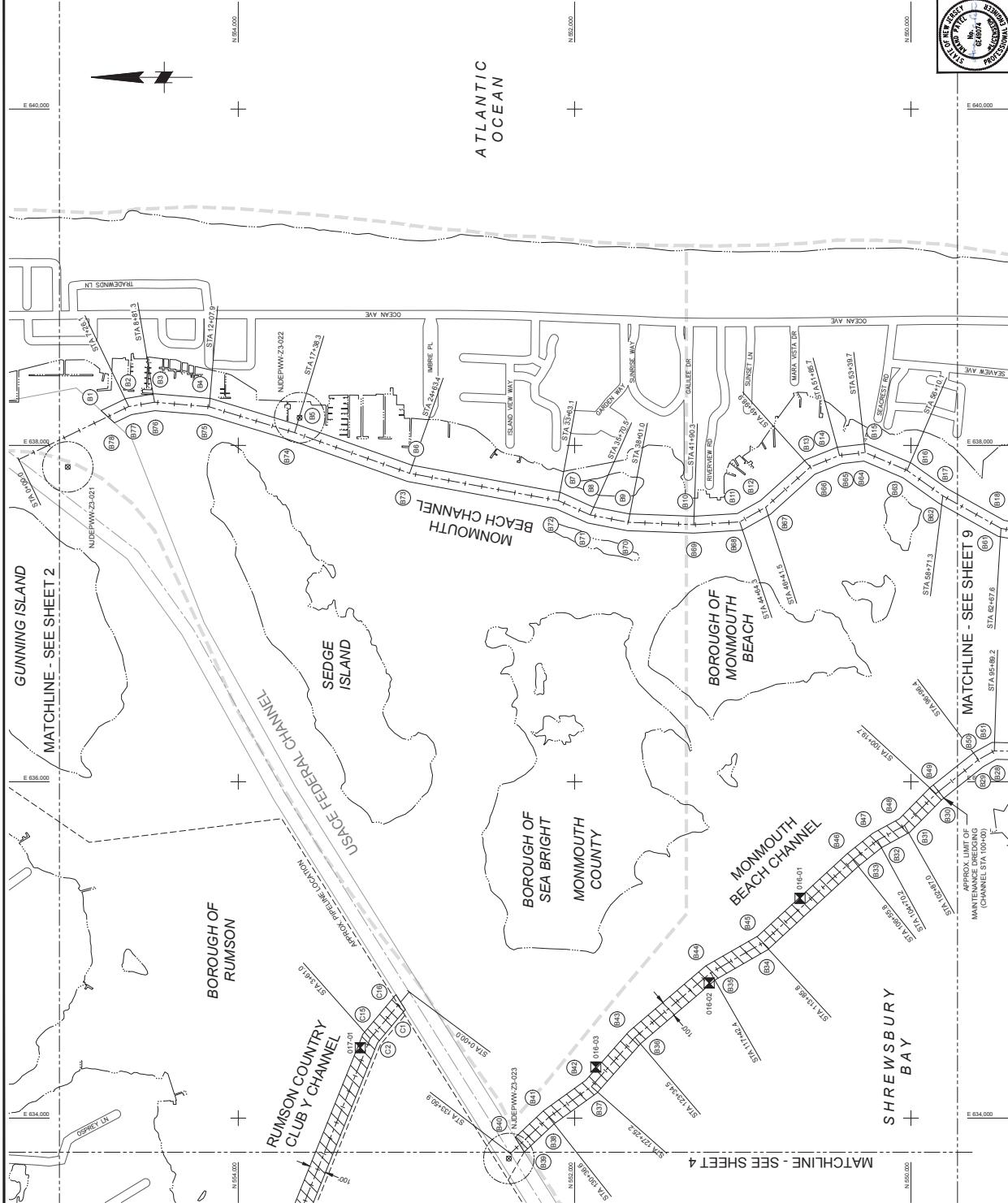
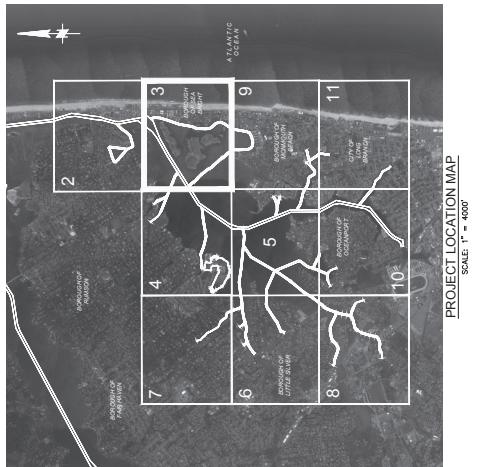
0' 300' 600' 900' 1200'

CDT MARCH 2002 E.T.C.

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

TITLE: SHREWSBURY RIVER CHANNEL COMPLEX CHANNEL ARRANGEMENT & GEOMETRY PLAN	
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHREWSBURY RIVER CHANNEL COMPLEX, CHANNEL NOS. 01-03-06.	
BOROUGH OF JAMISON, SEABRIGHT, MONMOUTH BEACH, LITTLE SILVER OCEANPORT LONG BRANCH, MONMOUTH COUNTY, NEW JERSEY	
DESCRIPTION	DRAWN BY JAM WSP/ISL/IRE CHECKED BY SFF NO. 24028262890
DATE:	CERTIFICATION OF AUTHORIZATION AND PATEL AS DRAWN NEW JERSEY PROFESSIONAL ENGINEER DATE: MAR 2023
REV:	1 - 1 - DWG. NO. PERMIT - 02 SHEET 2 OF 44
E 640.000	 QBA Quality Based Approval A COMMITMENT TO EXCELLENCE MONMOUTH COUNTY PROFESSIONAL ENGINEERS MONMOUTH COUNTY, NEW JERSEY

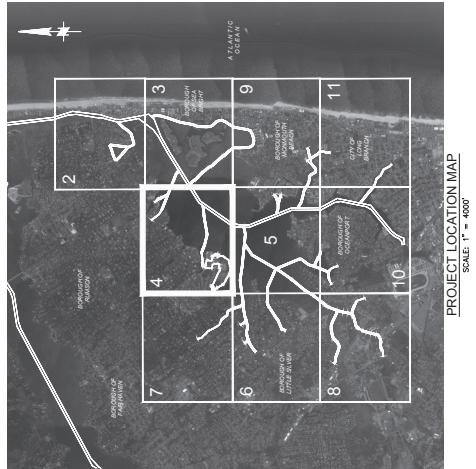




130900731 Marine Training System Planning Task Order 7A - Newburyport/Rumson Hwy/Shermanby River Channel Complex geom and bathy Plans - FINAL DRAFT UNISIGNED/Shermanby River Complex geom and bathy Plans.dwg

NOTES.

1. CHANNEL GEOMETRY AND VERTICAL DATUM WAVES FOR EACH CHANNEL AND IS SHOWN ON SHEETS 13-14.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW MEXICO STATE PLANE GRID UTM SYSTEM NARTH AMERICAN DATUM OF 1983 (NAD83).
3. EXISTING SHORELINE, MOUTH, & DITCH LOCATIONS ARE BASED ON AERIAL IMAGE AND GOOGLE MAPS DATED MAY, 2019.
4. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

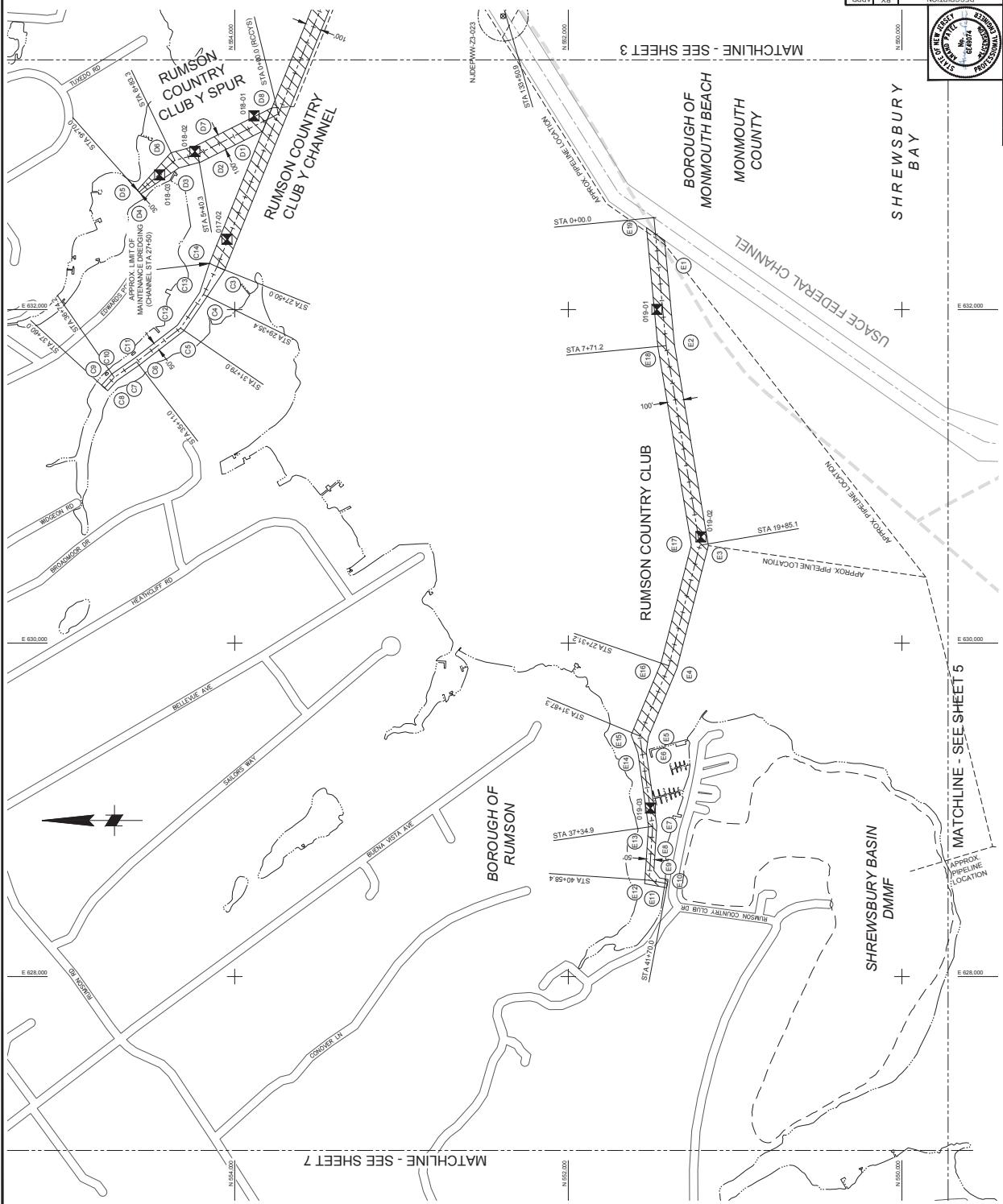


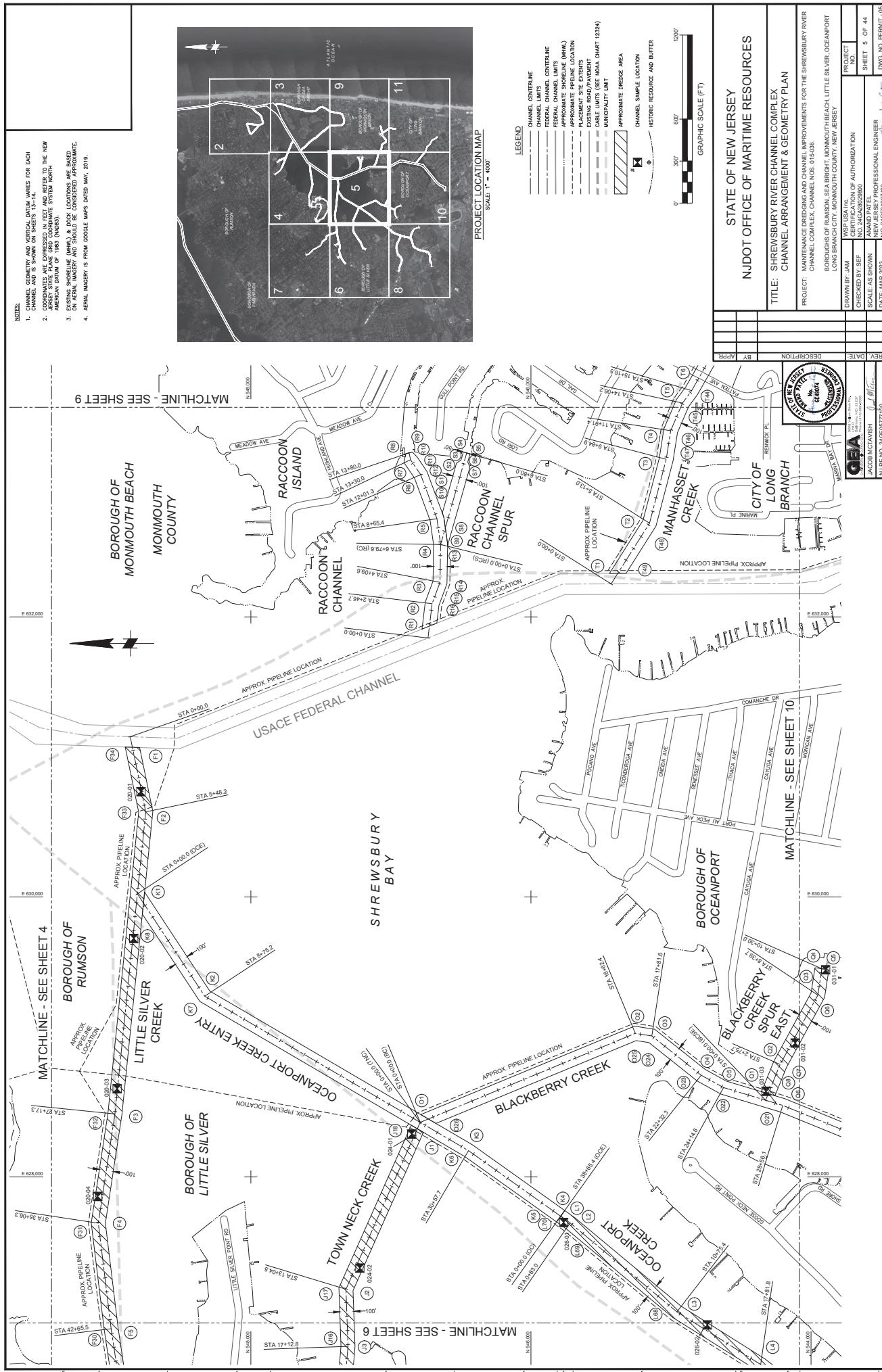
LEGEND

- CHANNEL, CENTRINE
- CHANNEL LIMITS
- FEDERAL CHANNEL, CENTRINE
- FERBER LINE
- HISTORIC CHANNEL, CENTRINE
- APPROXIMATE CHANNEL, CENTRINE
- PLACEMENT, PIPELINE LOCATION
- STAKE POINT, SITE EVENTS
- DOTTING ROAD/PAIMENT
- CABLE LIMITS, GEE NOA CHART (1224)
- MUNICIPAL LIMIT
- APPROXIMATE, PRICE AREA
- CHANNEL SAMPLE LOCATION
- HISTORIC RESOURCE AND BUFFER

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

STATE OF NEW JERSEY		NJDOT OFFICE OF MARITIME RESOURCES	
<p style="text-align: center;">TITLE: SHREWSBURY RIVER CHANNEL COMPLEX</p> <p style="text-align: center;">CHANNEL ARRANGEMENT & GEOMETRY PLAN</p>			
<p>PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHREWSBURY RIVER CHANNEL COREX CHANNEL NOS. 011036.</p> <p>BOROUGHS OF RUMSON, SEA BRIGH, MONMOUTH BEACH, LITTLE SILVER, OCEANPORT LONG BRANCH, MONMOUTH COUNTY, NEW JERSEY</p>			
<p>DRAWN BY: AMW (WSP USA INC.) VERIFIED BY: AMW (WSP USA INC.) CHIEFED BY: SEF (WSP USA INC.) SCALE AS SHOWN DATE: MAY 2023 NO. 42GB4070400</p>			
<p>BY APPR.</p> <p>N80.000</p> <p><i>[Signature]</i></p>		<p>DESCRIPTION</p> <p>RELY DATE</p> <p>APPROVAL DATE</p> <p>RELY SIGNATURE</p> <p>APPROVAL SIGNATURE</p>	
<p>APPROVED No. 6840-0000 6/2023</p> <p><i>[Signature]</i></p>		<p>4 OF 44</p> <p>DWG NO. PERMIT # 04</p> <p><i>[Signature]</i></p>	
<p>CERTIFICATE OF PROFESSIONAL ENGINEER</p> <p>I hereby certify that the plans and specifications contained in this document are my original work and have been prepared in accordance with applicable laws, rules, regulations, and standards. I am a registered professional engineer in the State of New Jersey and am qualified by education, training, and experience to prepare these plans and specifications.</p> <p>JACOB W. BROWN, PE NJ INGENIERIE, LLC 247-26577100</p> <p>WSP USA INC. 420 University Street, Suite 1000 Seattle, WA 98101-3143 T 206.467.4200 F 206.467.4201</p>			



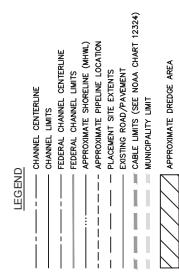


NOTES.

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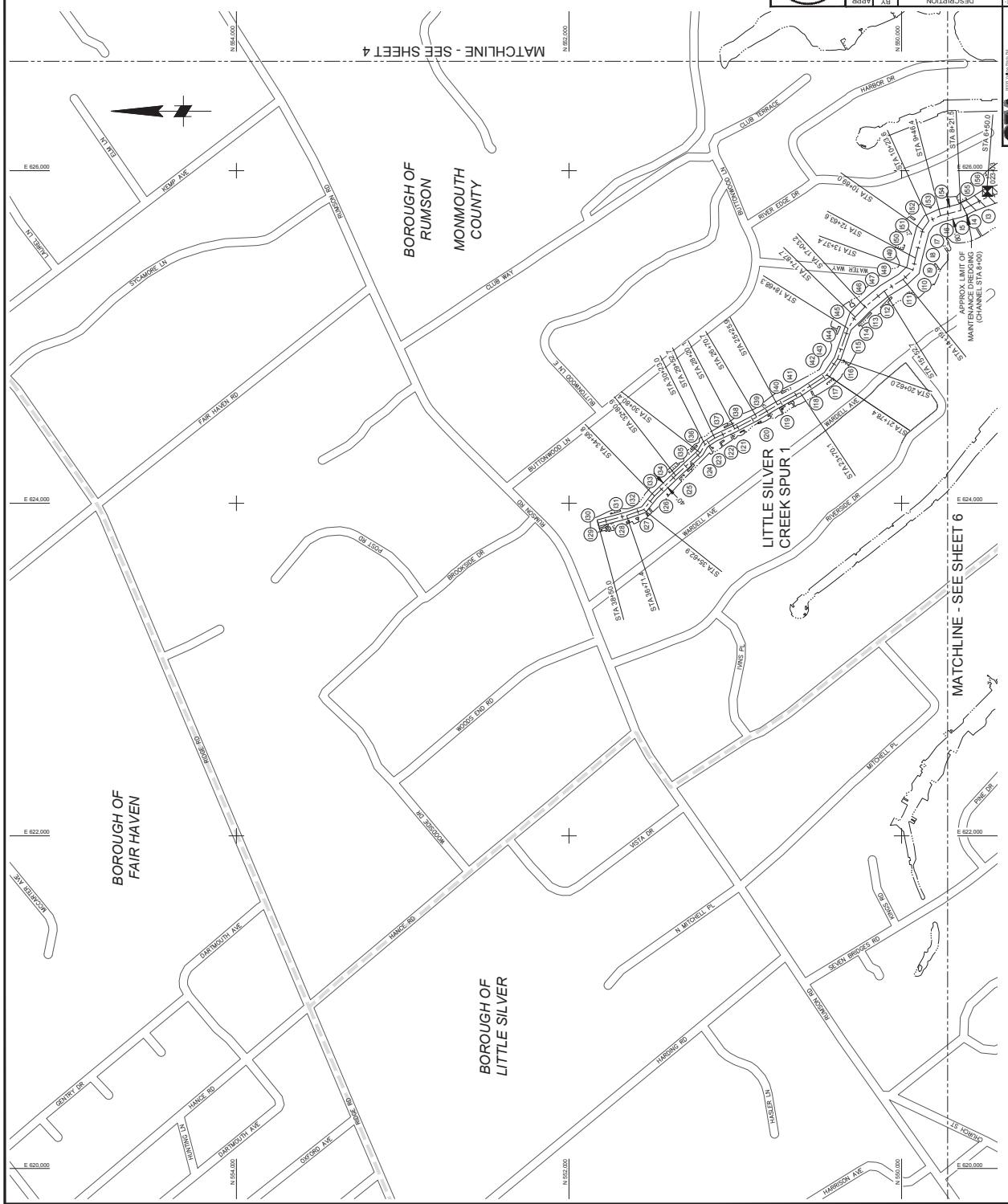
PROJECT LOCATION MAP



A vertical scale bar with horizontal tick marks at 0', 300', 600', and 1200' intervals.

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

NEWSBURY RIVER CHANNEL COMPLEX





NOTES:
1. CHANNEL GEOMETRY AND VERTICAL VALUES FOR EACH CHANNEL ARE SHOWN ON SHEETS 13-14.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83). LOCATIONS ARE BASED ON EXISTING CHANNEL (WATERWAY, DICK, ETC.).
3. EXISTING CHANNEL (WATERWAY, DICK, ETC.) LOCATIONS ARE BASED ON AERIAL IMAGERY FROM GOOGLE MAPS DATED MAY, 2019.

LEGEND
— CHANNEL CENTERLINE
— CHANNEL LIMITS
— FEDERAL CHANNEL CENTERLINE
— APPROXIMATE SHORELINE (MWH)
— APPROXIMATE PIPELINE LOCATION
— CHANNEL NUMBER
— CHANNEL NUMBER, SEE NOAA CHART 12244
— MUNICIPALITY LIMIT
— APPROXIMATE PREDGE AREA
■ CHANNEL SAMPLE LOCATION
— HISTORIC RESOURCE AND BUFFER

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

STATE OF NEW JERSEY NJDOT OFFICE OF MARITIME RESOURCES

TITLE: SHREWSBURY RIVER CHANNEL COMPLEX
CHANNEL ARRANGEMENT & GEOMETRY PLAN
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHREWSBURY RIVER
CHANNEL COMPLEX CHANNEL NOS. 015-038
Borough of Ramon Seabright, Monmouth Beach, Little Silver, Oceanport Long Branch City, Monmouth County, New Jersey
DRAWN BY: JAM
CHECKED BY: SEF
APPROVED BY: JACOB MCNAUL
DATE: MAR 2023
NO. PERMIT: 240-05577100
DWG. NO. PERMIT: J-1-C

REV	DATE	DESCRIPTION	BY
0	APR 2023	INITIAL DRAWING	JAM
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132	MAY 2034	FINAL DRAFT	JAM
133	JUN 2034	FINAL DRAFT	JAM
134	JUL 2034	FINAL DRAFT	JAM
135	AUG 2034	FINAL DRAFT	JAM
136	SEP 2034	FINAL DRAFT	JAM
137	OCT 2034	FINAL DRAFT	JAM
138	NOV 2034	FINAL DRAFT	JAM
139	DEC 2034	FINAL DRAFT	JAM
140	JAN 2035	FINAL DRAFT	JAM
141	FEB 2035	FINAL DRAFT	JAM
142	MAR 2035	FINAL DRAFT	JAM
143	APR 2035	FINAL DRAFT	JAM
144	MAY 2035	FINAL DRAFT	JAM
145	JUN 2035	FINAL DRAFT	JAM
146	JUL 2035	FINAL DRAFT	JAM
147	AUG 2035	FINAL DRAFT	JAM
148	SEP 2035	FINAL DRAFT	JAM
149	OCT 2035	FINAL DRAFT	JAM
150	NOV 2035	FINAL DRAFT	JAM
151	DEC 2035	FINAL DRAFT	JAM
152	JAN 2036	FINAL DRAFT	JAM
153	FEB 2036	FINAL DRAFT	JAM
154	MAR 2036	FINAL DRAFT	JAM
155	APR 2036	FINAL DRAFT	JAM
156	MAY 2036	FINAL DRAFT	JAM
157	JUN 2036	FINAL DRAFT	JAM
158	JUL 2036	FINAL DRAFT	JAM
159	AUG 2036	FINAL DRAFT	JAM
160	SEP 2036	FINAL DRAFT	JAM
161	OCT 2036	FINAL DRAFT	JAM
162	NOV 2036	FINAL DRAFT	JAM
163	DEC 2036	FINAL DRAFT	JAM
164	JAN 2037	FINAL DRAFT	JAM
165	FEB 2037	FINAL DRAFT	JAM
166	MAR 2037	FINAL DRAFT	JAM
167	APR 2037	FINAL DRAFT	JAM
168	MAY 2037	FINAL DRAFT	JAM
169	JUN 2037	FINAL DRAFT	JAM
170	JUL 2037	FINAL DRAFT	JAM
171	AUG 2037	FINAL DRAFT	JAM
172	SEP 2037	FINAL DRAFT	JAM
173	OCT 2037	FINAL DRAFT	JAM
174	NOV 2037	FINAL DRAFT	JAM
175	DEC 2037	FINAL DRAFT	JAM
176	JAN 2038	FINAL DRAFT	JAM
177	FEB 2038	FINAL DRAFT	JAM
178	MAR 2038	FINAL DRAFT	JAM
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189	FEB 2039	FINAL DRAFT	JAM
190	MAR 2039	FINAL DRAFT	JAM
191	APR 2039	FINAL DRAFT	JAM
192	MAY 2039	FINAL DRAFT	JAM
193	JUN 2039	FINAL DRAFT	JAM
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202	MAR 2040	FINAL DRAFT	JAM
203	APR 2040	FINAL DRAFT	JAM
204	MAY 2040	FINAL DRAFT	JAM
205	JUN 2040	FINAL DRAFT	JAM
206	JUL 2040	FINAL DRAFT	JAM
207	AUG 2040	FINAL DRAFT	JAM
208	SEP 2040	FINAL DRAFT	JAM
209	OCT 2040	FINAL DRAFT	JAM
210	NOV 2040	FINAL DRAFT	JAM
211	DEC 2040	FINAL DRAFT	JAM
212	JAN 2041	FINAL DRAFT	JAM
213	FEB 2041	FINAL DRAFT	JAM
214	MAR 2041	FINAL DRAFT	JAM
215	APR 2041	FINAL DRAFT	JAM
216	MAY 2041	FINAL DRAFT	JAM
217	JUN 2041	FINAL DRAFT	JAM
218	JUL 2041	FINAL DRAFT	JAM
219	AUG 2041	FINAL DRAFT	JAM
220	SEP 2041	FINAL DRAFT	JAM
221	OCT 2041	FINAL DRAFT	JAM
222	NOV 2041	FINAL DRAFT	JAM
223	DEC 2041	FINAL DRAFT	JAM
224	JAN 2042	FINAL DRAFT	JAM
225	FEB 2042	FINAL DRAFT	JAM
226	MAR 2042	FINAL DRAFT	JAM
227	APR 2042	FINAL DRAFT	JAM
228	MAY 2042	FINAL DRAFT	JAM
229	JUN 2042	FINAL DRAFT	JAM
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231	AUG 2042	FINAL DRAFT	JAM
232	SEP 2042	FINAL DRAFT	JAM
233	OCT 2042	FINAL DRAFT	JAM
234	NOV 2042	FINAL DRAFT	JAM
235	DEC 2042	FINAL DRAFT	JAM
236	JAN 2043	FINAL DRAFT	JAM
237	FEB 2043	FINAL DRAFT	JAM
238	MAR 2043	FINAL DRAFT	JAM
239	APR 2043	FINAL DRAFT	JAM
240	MAY 2043	FINAL DRAFT	JAM
241	JUN 2043	FINAL DRAFT	JAM
242	JUL 2043	FINAL DRAFT	JAM
243	AUG 2043	FINAL DRAFT	JAM
244	SEP 2043	FINAL DRAFT	JAM
245	OCT 2043	FINAL DRAFT	JAM
246	NOV 2043	FINAL DRAFT	JAM
247	DEC 2043	FINAL DRAFT	JAM
248	JAN 2044	FINAL DRAFT	JAM
249	FEB 2044	FINAL DRAFT	JAM
250	MAR 2044	FINAL DRAFT	JAM
251	APR 2044	FINAL DRAFT	JAM
252	MAY 2044	FINAL DRAFT	JAM
253	JUN 2044	FINAL DRAFT	JAM
254	JUL 2044	FINAL DRAFT	JAM
255	AUG 2044	FINAL DRAFT	JAM
256	SEP 2044	FINAL DRAFT	JAM
257	OCT 2044	FINAL DRAFT	JAM
258	NOV 2044	FINAL DRAFT	JAM
259	DEC 2044	FINAL DRAFT	JAM
260	JAN 2045	FINAL DRAFT	JAM
261	FEB 2045	FINAL DRAFT	JAM
262	MAR 2045	FINAL DRAFT	JAM
263	APR 2045	FINAL DRAFT	JAM
264	MAY 2045	FINAL DRAFT	JAM
265	JUN 2045	FINAL DRAFT	JAM
266	JUL 2045	FINAL DRAFT	JAM
267	AUG 2045	FINAL DRAFT	JAM
268	SEP 2045	FINAL DRAFT	JAM
269	OCT 2045	FINAL DRAFT	JAM
270	NOV 2045	FINAL DRAFT	JAM
271	DEC 2045	FINAL DRAFT	JAM
272	JAN 2046	FINAL DRAFT	JAM
273	FEB 2046	FINAL DRAFT	JAM
274	MAR 2046	FINAL DRAFT	JAM
275	APR 2046	FINAL DRAFT	JAM
276	MAY 2046	FINAL DRAFT	JAM
277	JUN 2046	FINAL DRAFT	JAM
278	JUL 2046	FINAL DRAFT	JAM
279	AUG 2046	FINAL DRAFT	JAM
280	SEP 2046	FINAL DRAFT	JAM
281			



NOTES.

- CHANNEL GEOMETRY AND VERTICAL DATUM VARY FOR EACH CHANNEL AND IS SHOWN ON SHEETS 13-14.
- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD 83).
- EXISTING SHORELINE (MINW) & DICK LOCATIONS ARE BASED ON AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.
- AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY, 2019.

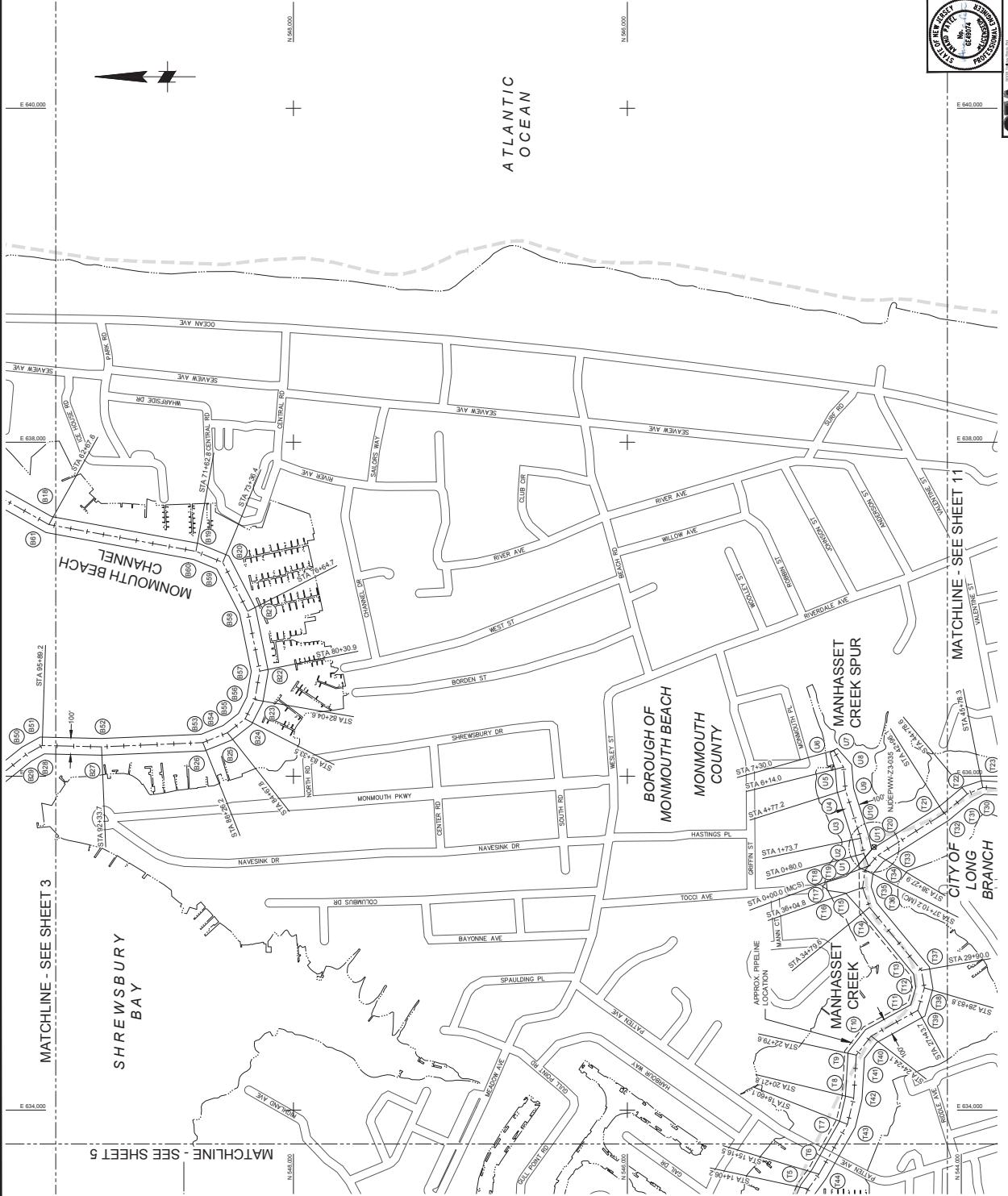
PROJECT LOCATION MAP

LEGEND

— — — — —	CHANNEL CENTERLINE
— — — — —	CHANNEL LIMITS
— — — — —	FEDERAL CHANNEL CENTERLINE
— — — — —	FEDERAL CHANNEL LIMITS
.....	APPROXIMATE SPECIFIC (MM.)
— — — — —	A-PLACED FEDE. LOCATION
— — — — —	A-PLACED FEDE. LOCATION
— — — — —	CASTING ROAD/POA CHART 1234*
— — — — —	POA LIMITS (SEE POA CHART 1234*)

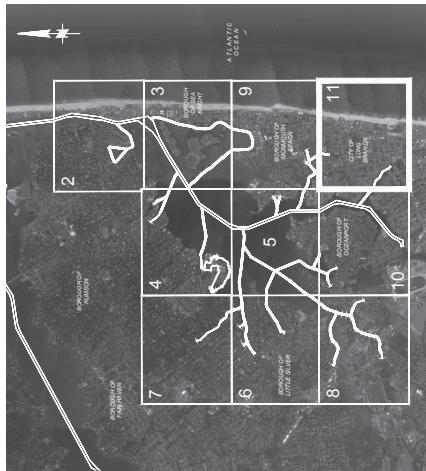
A vertical graphic scale bar on the right side of the page. It features a series of black and white horizontal bars of decreasing length from bottom to top. To the right of the bars, the text "GRAPHIC SCALE (FT)" is printed vertically. Numerical labels "0'", "300'", "600'", and "1200'" are positioned to the left of the scale bar.

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





30900731 More Than a Trumpet System Planning Task Order TA - Shreveberry-Rimsohn Hwy Shreveberry River Channel Complex Geom and Bodily Plans - FINAL DRAFT UNDESIGNED Shreveberry River Channel Complex Geom and Bodily Plans dsg



NOTES.

1. CHANNEL, GEOMETRY AND VERTICAL DATUM VARIES FOR EACH CHANNEL, AND IS SHOWN ON SHEETS 13-14.
2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. EXISTING SHORELINE (MINW.) & DOCK LOCATIONS ARE BASED ON AERIAL MAYER AND DOCKS CONSIDERED APPROXIMATE.
4. AERIAL MAYER IS FROM GOOGLE MAPS DATED MAY 2019.

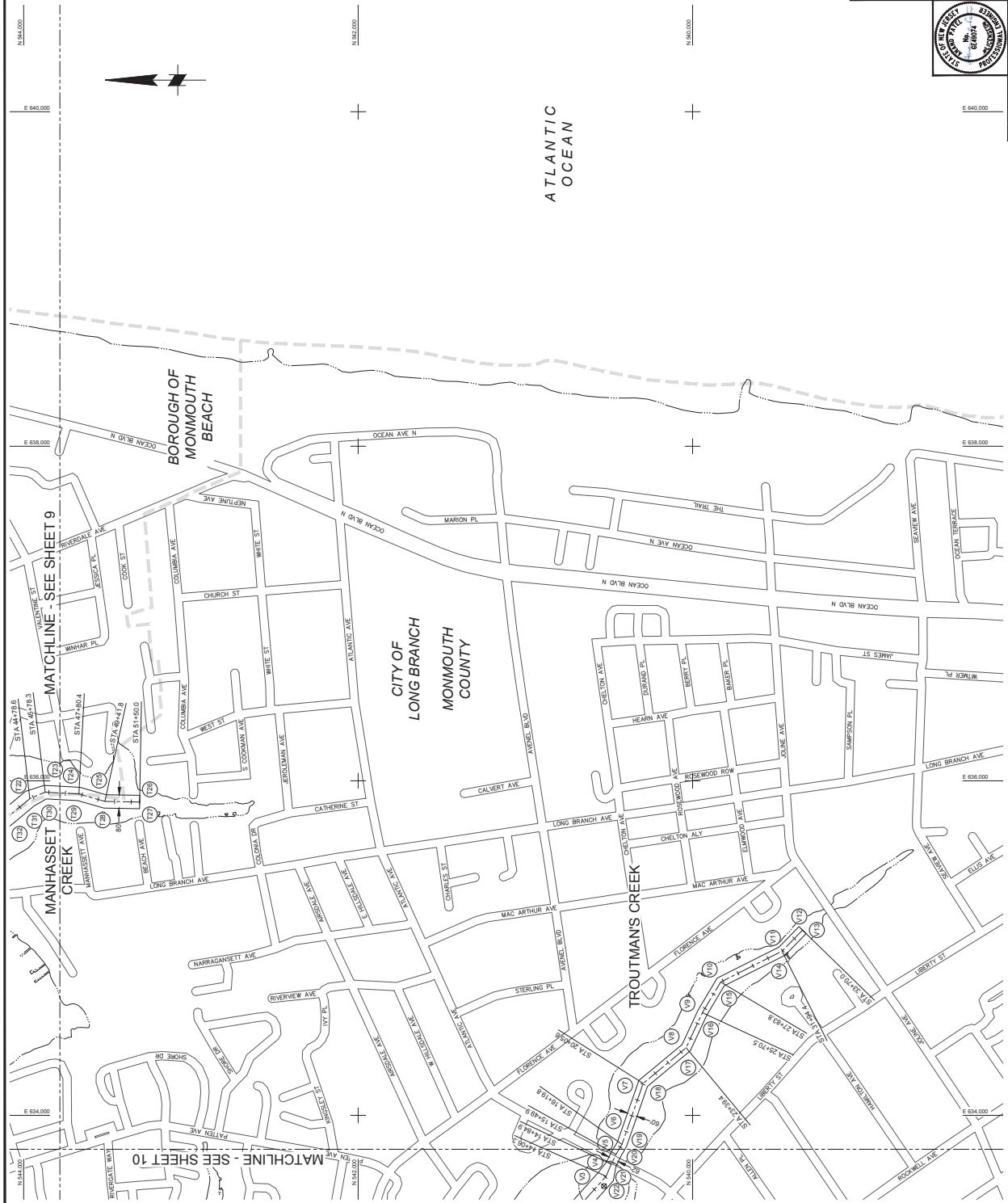
PROJECT LOCATION MAP

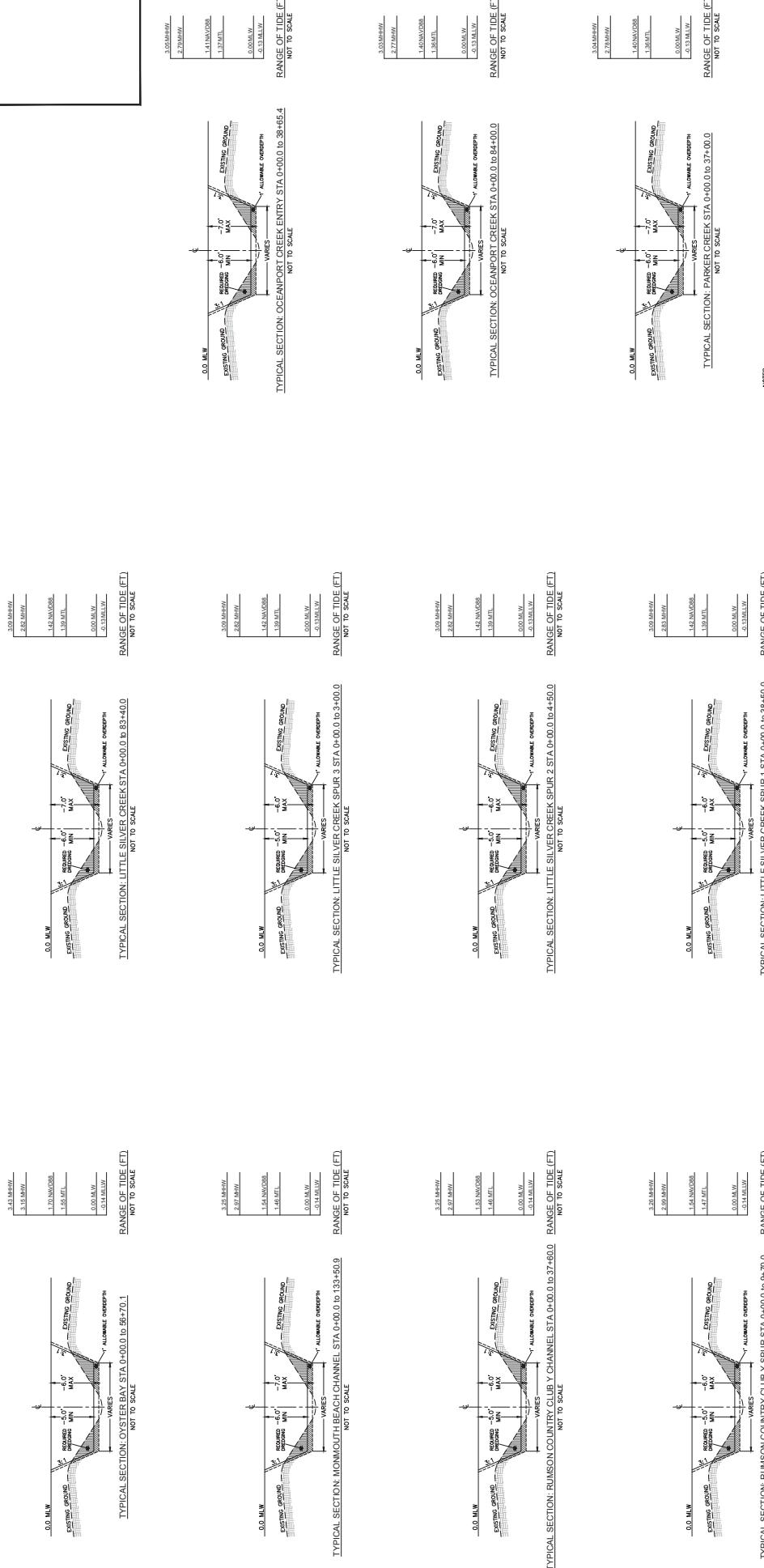
LEGEND

— — — CHANNEL, CENTERLINE
 — — — CHANNEL LIMITS
 — — — FEDERAL CHANNEL CENTERLINE
 — — — FEDERAL CHANNEL LIMITS
 — — — APPROPRIATE STREAMLINE (WHD)
 — — — PROPOSED ESTATE COASTAL
 — — — PROPOSED STREAMLINE
 — — — PROPOSED ROAD/PIKE/RENT
 — — — CABLE LINES SEE: OA/HART 12/24/2014

A vertical graphic scale consisting of a series of horizontal tick marks. The scale is labeled with numerical values: 0', 300', 600', and 1200'. The first three labels are positioned to the left of the scale, while the 1200' label is positioned to the right. The tick marks are evenly spaced, representing increments of 300 feet.

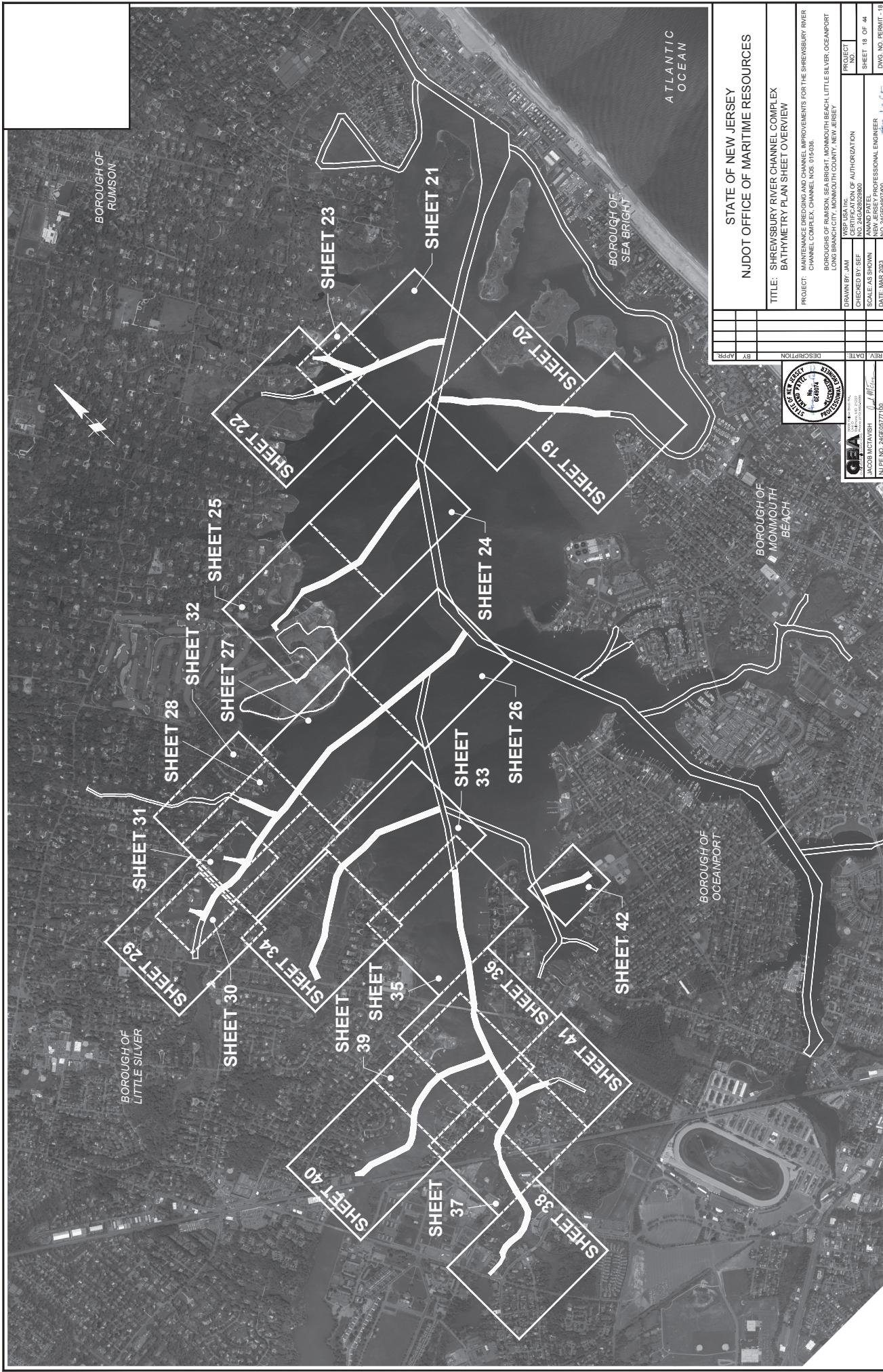
STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

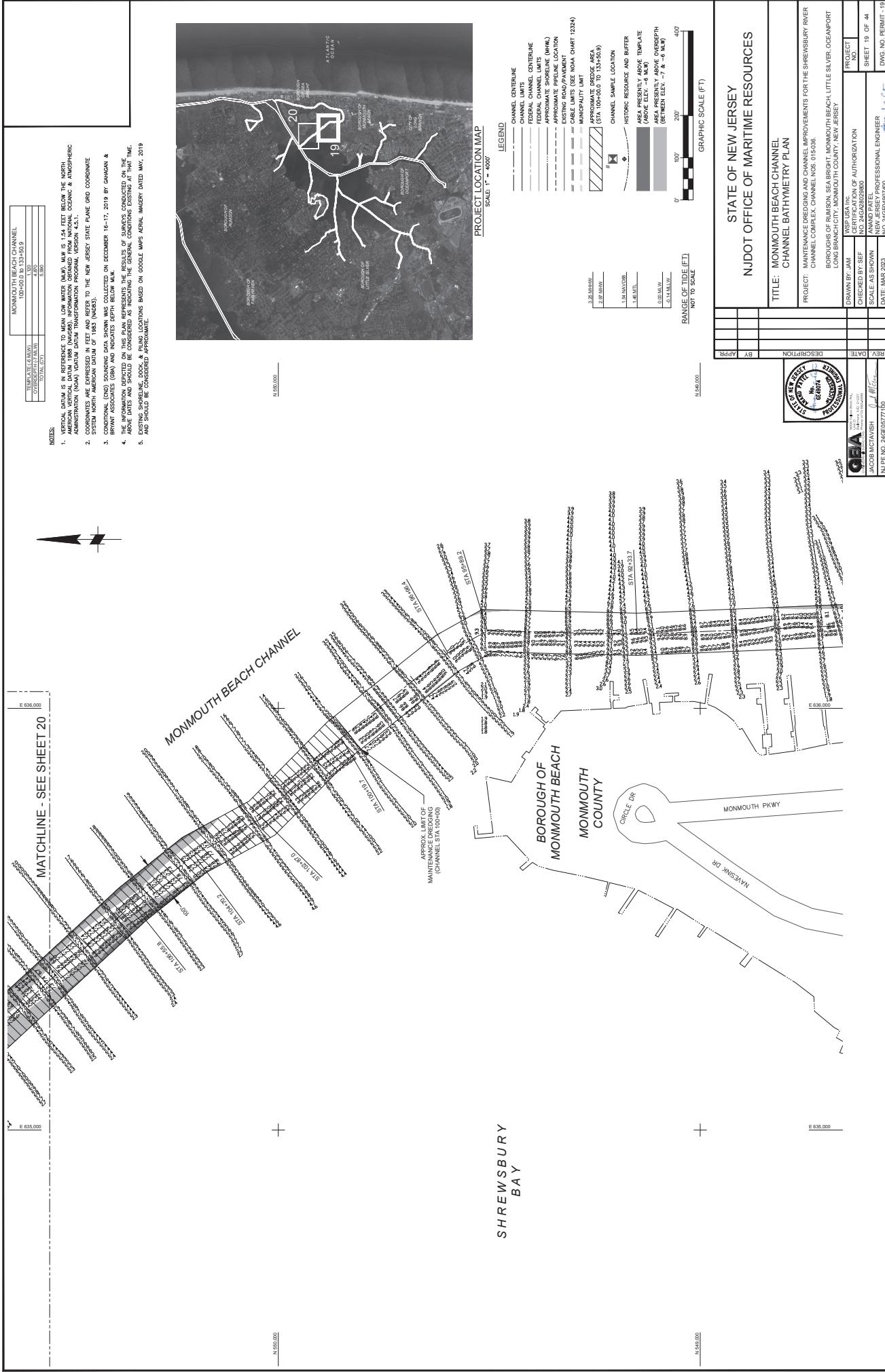


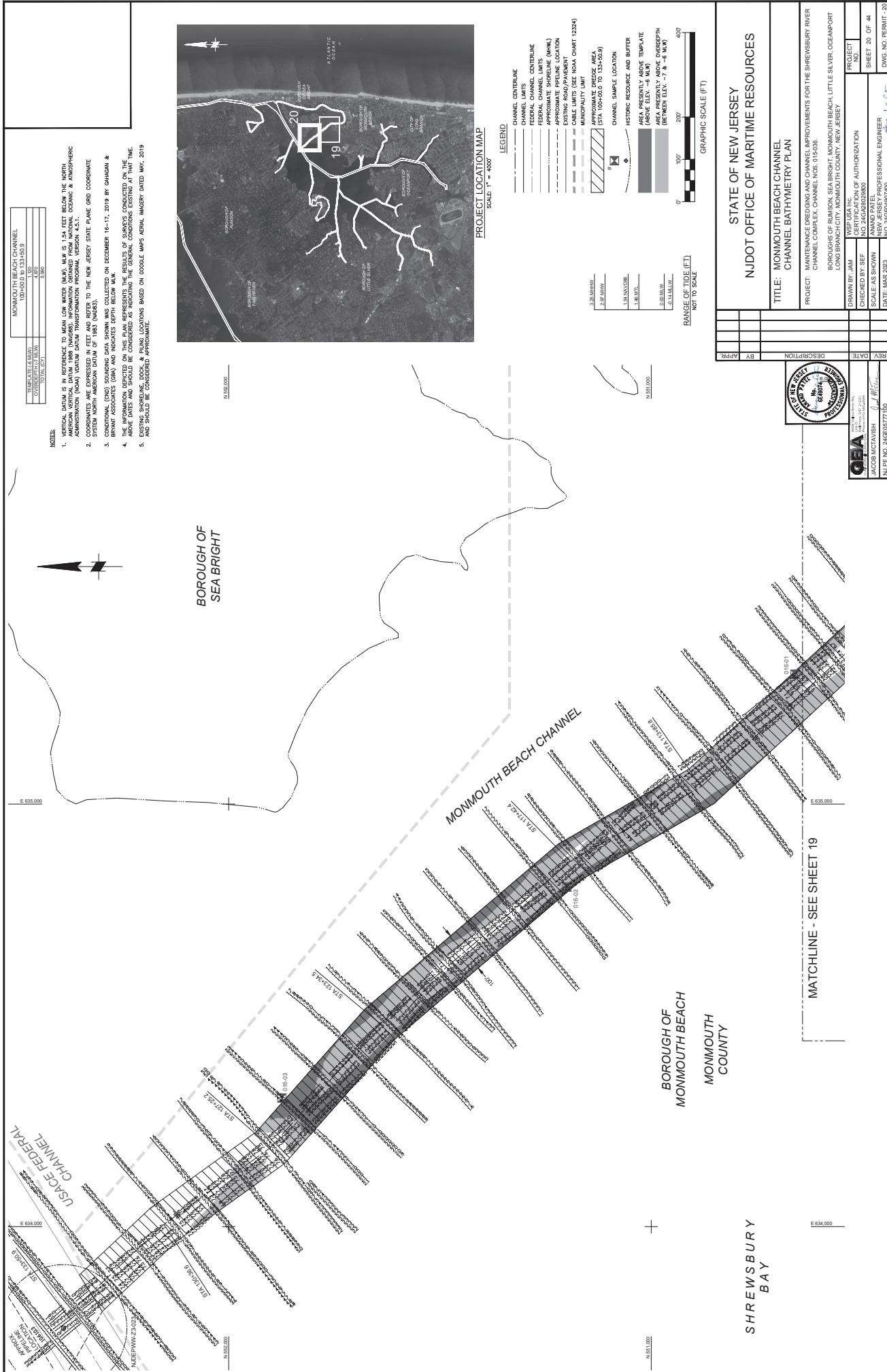


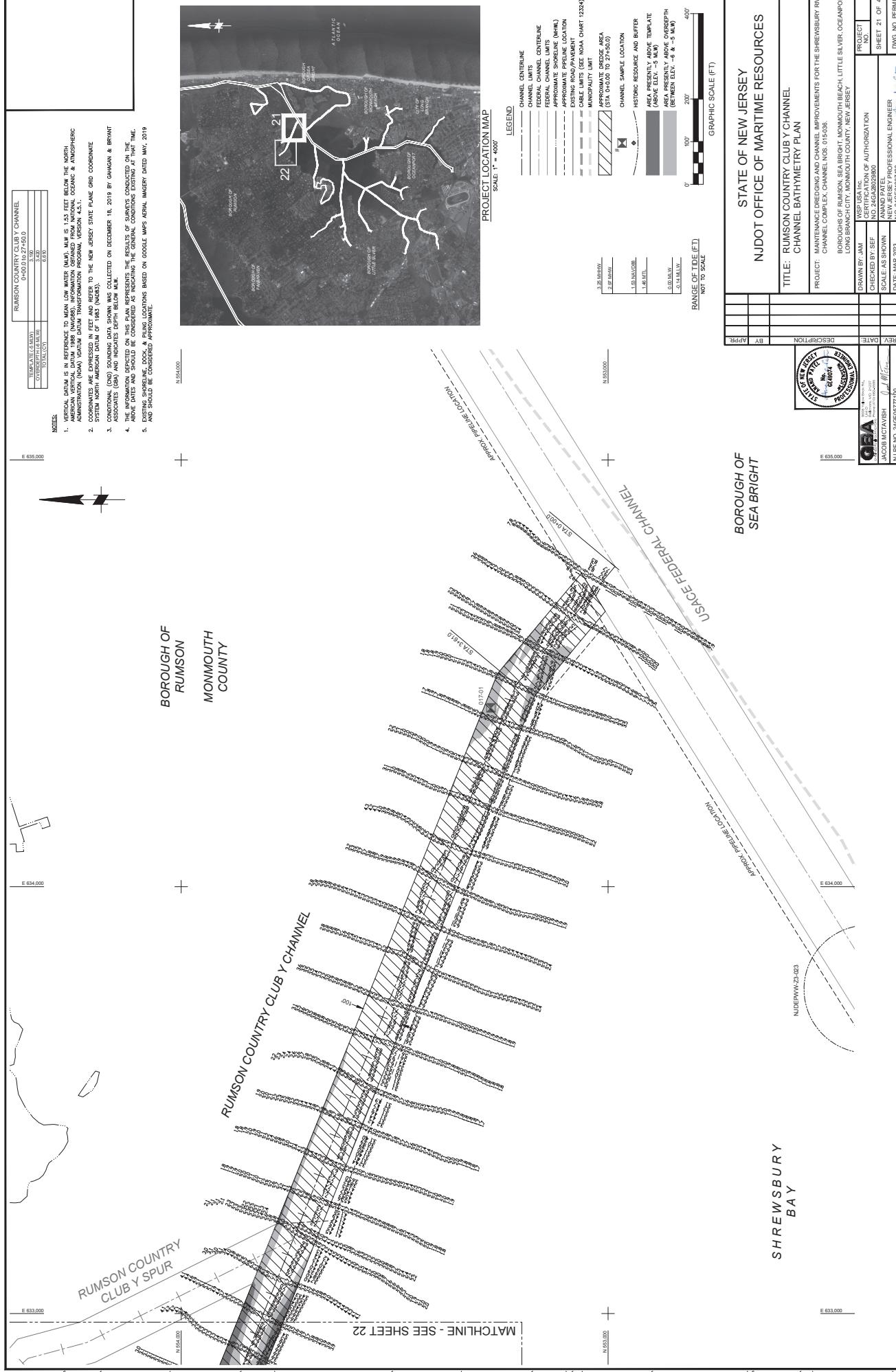
15090731 Majorine Transp System Planning Task Order TA - Streamside-Navesink-Rumson Hwy/Shrewsbury River Channel Complex Geom and Bathy Plans - FINAL DRAFT USGS/NED Shrewsbury River Channel Complex Geom and Bathy Plans,dwg

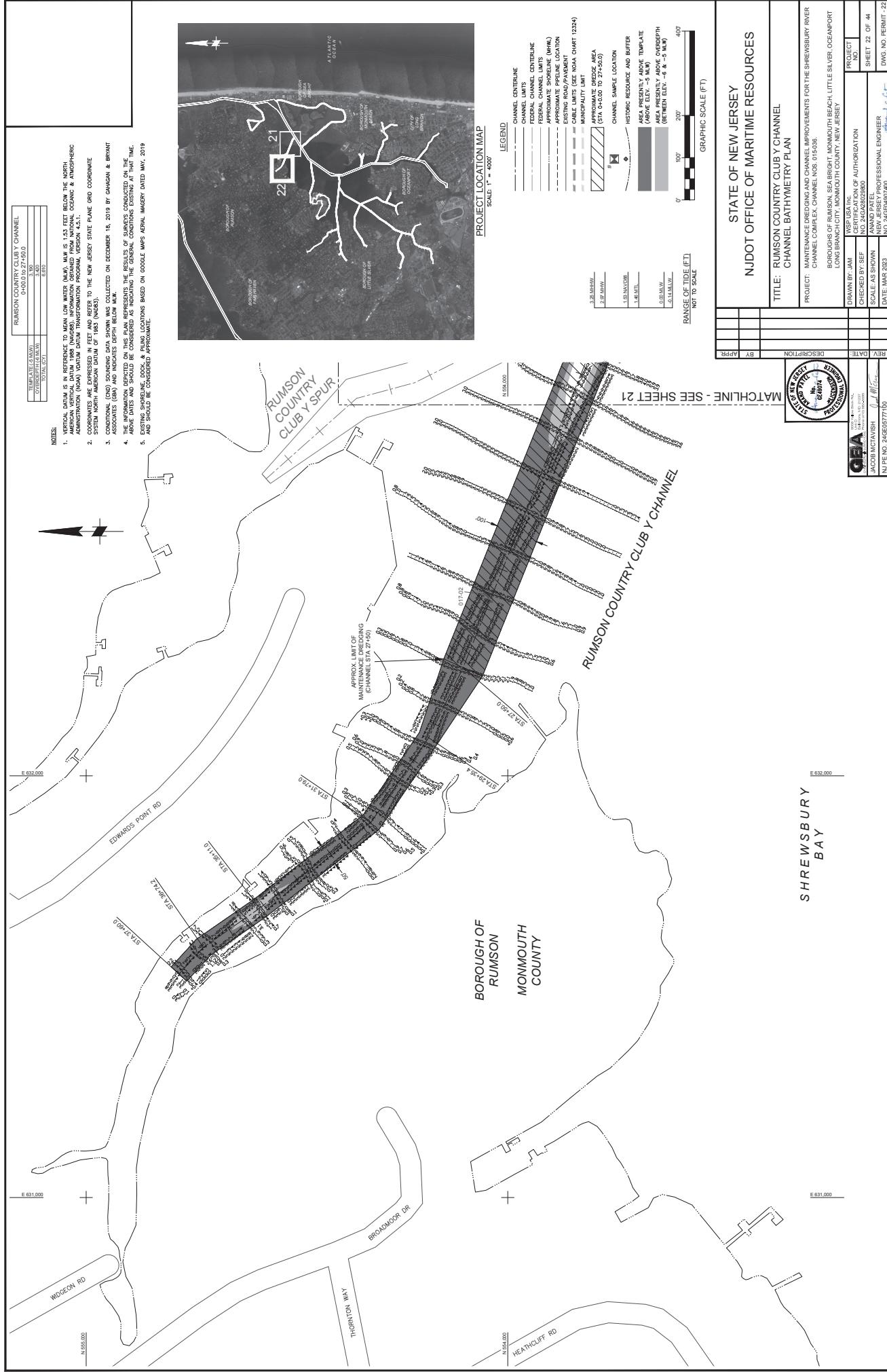
STATE OF NEW JERSEY											
NUDOT OFFICE OF MARITIME RESOURCES											
TITLE: SHREWSBURY RIVER CHANNEL COMPLEX CHANNEL GEOMETRY & SAMPLING COORDINATE TABLES											
PROJECT: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR THE SHREWSBURY RIVER CHANNEL COMPLEX CHANNEL, CHANNEL NO. 015-058.											
BOROUGH OF RAMSON SEABRIGHT, MONMOUTH BEACH, LITTLE SILVER, OCEANPORT LONG BRANCH, MONMOUTH COUNTY, NEW JERSEY											
DRAWN BY: JAM CHECKED BY: SEF APPROVED BY: JACOB MACHIVICH DATE: MAR 2023 REV: 04/2023 NO. 2023-0577-001 Dwg. No. PERMIT - 14 Sheet 14 Of 44											
RUMSON COUNTRY CLUB Y CHANNEL CHANNEL COORDINATES											
SAMPLE LOCATION COORDINATES											
STATION NORTHEAST EASTING											
POINT	NORTHING	EASTING	BORING	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
A-0	595.38038	637.183.8	637.385.8	595.388.74	637.385.8	B1	594.85.7	637.391.8	637.391.8	593.085.6	637.390.6
0+0.0	595.38038	637.183.8	637.385.8	595.388.74	637.385.8	B1	594.85.7	637.391.8	637.391.8	593.085.6	637.390.6
1+9.3	595.897.2	637.147.6	637.247.8	595.897.2	637.147.6	B2	594.90.5	638.203.9	638.203.9	593.203.7	638.203.7
2+0.3	595.897.2	637.139.3	637.239.5	595.897.2	637.139.3	B3	594.90.5	638.204.6	638.204.6	593.203.7	638.203.7
A-3	595.896.8	637.281.5	637.381.6	595.896.8	637.281.5	B4	594.90.5	638.205.6	638.205.6	593.203.7	638.203.7
9+0.1	595.307.9	637.280.9	637.380.9	595.307.9	637.280.9	B5	594.10.0	638.205.6	638.205.6	593.203.7	638.203.7
11+13.9	595.96.6	637.143.1	637.243.4	595.96.6	637.143.1	B6	593.96.9	638.075.9	638.075.9	593.075.9	638.075.9
12+4.3	595.090.0	637.042.1	637.142.1	595.090.0	637.042.1	B7	592.02.9	637.051.9	637.051.9	591.051.9	637.051.9
18+22.5	595.94.7	636.284.8	636.384.8	595.94.7	636.284.8	B8	592.02.9	637.051.9	637.051.9	591.051.9	637.051.9
18+0.1	595.032.8	636.240.8	636.340.8	595.032.8	636.240.8	B9	591.02.0	637.051.9	637.051.9	590.051.9	637.051.9
19+11.1	595.86.6	635.78.3	635.88.3	595.86.6	635.78.3	B10	591.02.0	637.051.9	637.051.9	590.051.9	637.051.9
22+15.5	595.229.9	635.16.6	635.321.0	595.229.9	635.16.6	B11	591.02.0	637.051.9	637.051.9	590.051.9	637.051.9
25+0.4	595.96.0	635.15.5	635.315.5	595.96.0	635.15.5	B12	591.02.0	637.051.9	637.051.9	590.051.9	637.051.9
A-5	595.12.1	635.04.3	635.24.3	595.12.1	635.04.3	B13	590.96.9	637.051.9	637.051.9	590.051.9	637.051.9
38+0.0	595.09.4	635.03.4	635.23.4	595.09.4	635.03.4	B14	590.96.9	637.051.9	637.051.9	590.051.9	637.051.9
41+0.5	595.395.1	636.02.2	636.22.2	595.395.1	636.02.2	B15	590.96.9	637.051.9	637.051.9	590.051.9	637.051.9
44+7.0	595.152.2	635.12.9	635.32.9	595.152.2	635.12.9	B16	590.22.8	637.051.9	637.051.9	590.051.9	637.051.9
45+7.1	595.07.6	635.02.8	635.22.8	595.07.6	635.02.8	B17	590.22.8	637.051.9	637.051.9	590.051.9	637.051.9
A-7	595.40.4	635.20.4	635.40.4	595.40.4	635.20.4	B18	590.22.8	637.051.9	637.051.9	590.051.9	637.051.9
A-10	595.15.5	635.15.5	635.35.5	595.15.5	635.15.5	B19	590.15.5	637.051.9	637.051.9	590.051.9	637.051.9
34+6.4	595.395.3	635.05.3	635.25.3	595.395.3	635.05.3	B20	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
38+18.0	595.06.9	635.01.8	635.21.8	595.06.9	635.01.8	B21	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
39+22.4	595.395.1	636.02.2	636.22.2	595.395.1	636.02.2	B22	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
41+0.6	595.250.7	635.09.8	635.29.8	595.250.7	635.09.8	B23	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
44+7.8	595.152.2	635.12.9	635.32.9	595.152.2	635.12.9	B24	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
45+7.8	595.07.6	635.02.8	635.22.8	595.07.6	635.02.8	B25	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-17	595.40.4	635.20.4	635.40.4	595.40.4	635.20.4	B26	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-19	595.15.5	635.15.5	635.35.5	595.15.5	635.15.5	B27	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
38+0.0	595.395.3	635.05.3	635.25.3	595.395.3	635.05.3	B28	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
38+0.1	595.229.9	635.05.3	635.25.3	595.229.9	635.05.3	B29	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-21	595.037.1	635.03.7	635.23.7	595.037.1	635.03.7	B30	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-22	595.25.8	635.20.8	635.40.8	595.25.8	635.20.8	B31	590.22.8	637.051.9	637.051.9	590.051.9	637.051.9
A-23	595.19.1	635.04.1	635.24.1	595.19.1	635.04.1	B32	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-24	595.08.1	635.03.6	635.23.6	595.08.1	635.03.6	B33	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-25	595.40.4	635.20.4	635.40.4	595.40.4	635.20.4	B34	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-26	595.14.6	635.10.4	635.30.4	595.14.6	635.10.4	B35	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-27	595.03.7	635.03.7	635.23.7	595.03.7	635.03.7	B36	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-28	595.04.0	635.04.0	635.24.0	595.04.0	635.04.0	B37	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-29	595.04.4	635.04.4	635.24.4	595.04.4	635.04.4	B38	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-30	595.04.8	635.04.8	635.24.8	595.04.8	635.04.8	B39	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-31	595.05.2	635.05.2	635.25.2	595.05.2	635.05.2	B40	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-32	595.05.6	635.05.6	635.25.6	595.05.6	635.05.6	B41	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-33	595.05.9	635.05.9	635.25.9	595.05.9	635.05.9	B42	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-34	595.06.3	635.06.3	635.26.3	595.06.3	635.06.3	B43	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-35	595.06.7	635.06.7	635.26.7	595.06.7	635.06.7	B44	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-36	595.07.1	635.07.1	635.27.1	595.07.1	635.07.1	B45	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-37	595.07.5	635.07.5	635.27.5	595.07.5	635.07.5	B46	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-38	595.07.9	635.07.9	635.27.9	595.07.9	635.07.9	B47	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-39	595.08.3	635.08.3	635.28.3	595.08.3	635.08.3	B48	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-40	595.08.7	635.08.7	635.28.7	595.08.7	635.08.7	B49	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-41	595.09.1	635.09.1	635.29.1	595.09.1	635.09.1	B50	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-42	595.09.5	635.09.5	635.29.5	595.09.5	635.09.5	B51	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-43	595.09.9	635.09.9	635.29.9	595.09.9	635.09.9	B52	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-44	595.10.3	635.10.3	635.30.3	595.10.3	635.10.3	B53	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-45	595.10.7	635.10.7	635.30.7	595.10.7	635.10.7	B54	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-46	595.11.1	635.11.1	635.31.1	595.11.1	635.11.1	B55	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-47	595.11.5	635.11.5	635.31.5	595.11.5	635.11.5	B56	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-48	595.11.9	635.11.9	635.31.9	595.11.9	635.11.9	B57	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-49	595.12.3	635.12.3	635.32.3	595.12.3	635.12.3	B58	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-50	595.12.7	635.12.7	635.32.7	595.12.7	635.12.7	B59	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-51	595.13.1	635.13.1	635.33.1	595.13.1	635.13.1	B60	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-52	595.13.5	635.13.5	635.33.5	595.13.5	635.13.5	B61	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-53	595.13.9	635.13.9	635.33.9	595.13.9	635.13.9	B62	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-54	595.14.3	635.14.3	635.34.3	595.14.3	635.14.3	B63	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-55	595.14.7	635.14.7	635.34.7	595.14.7	635.14.7	B64	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-56	595.15.1	635.15.1	635.35.1	595.15.1	635.15.1	B65	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-57	595.15.5	635.15.5	635.35.5	595.15.5	635.15.5	B66	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-58	595.15.9	635.15.9	635.35.9	595.15.9	635.15.9	B67	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-59	595.16.3	635.16.3	635.36.3	595.16.3	635.16.3	B68	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-60	595.16.7	635.16.7	635.36.7	595.16.7	635.16.7	B69	590.05.3	637.051.9	637.051.9	590.051.9	637.051.9
A-61	595.17.1	635.17.1	635.37.1	595.17.1							

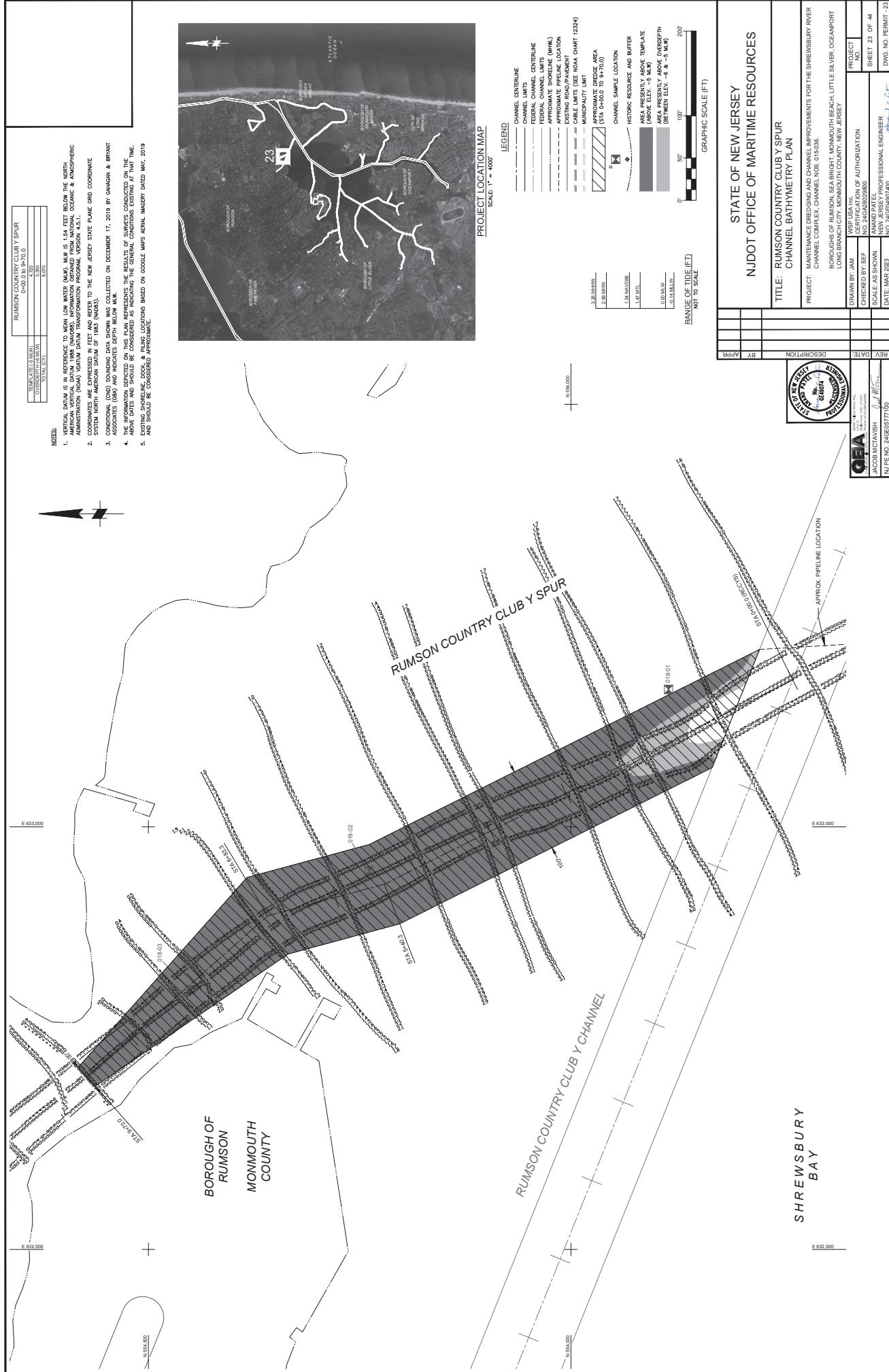


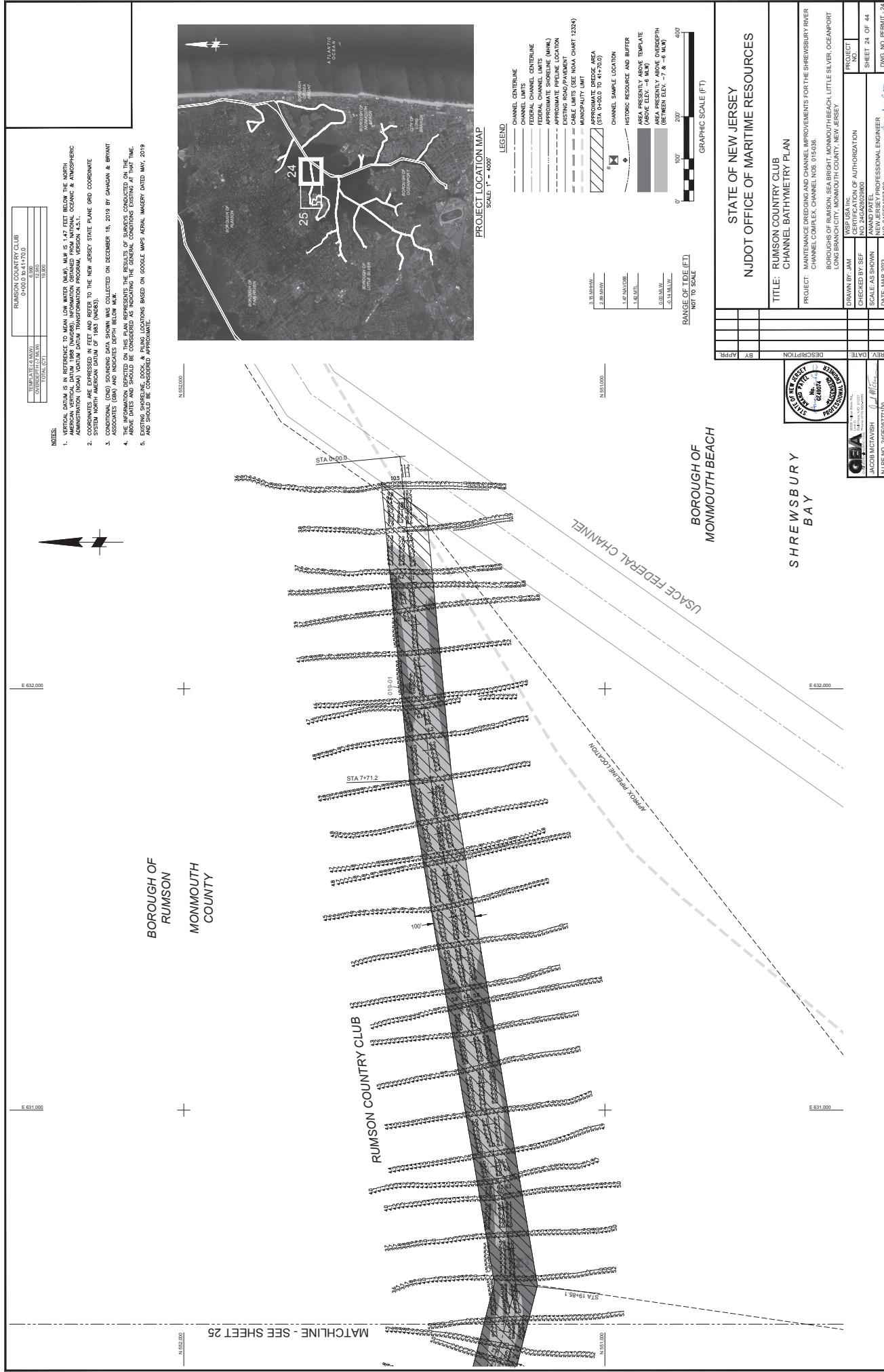


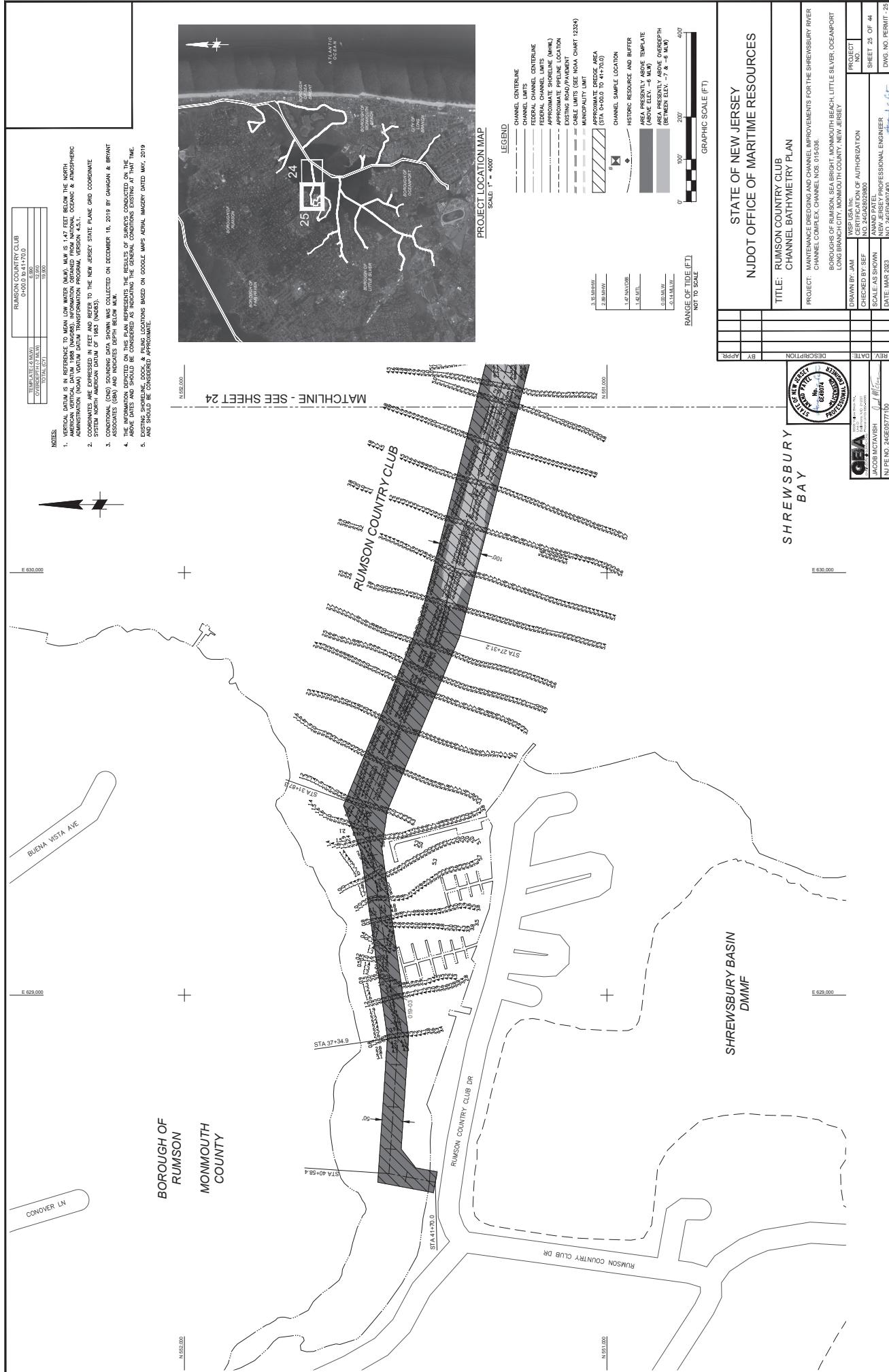


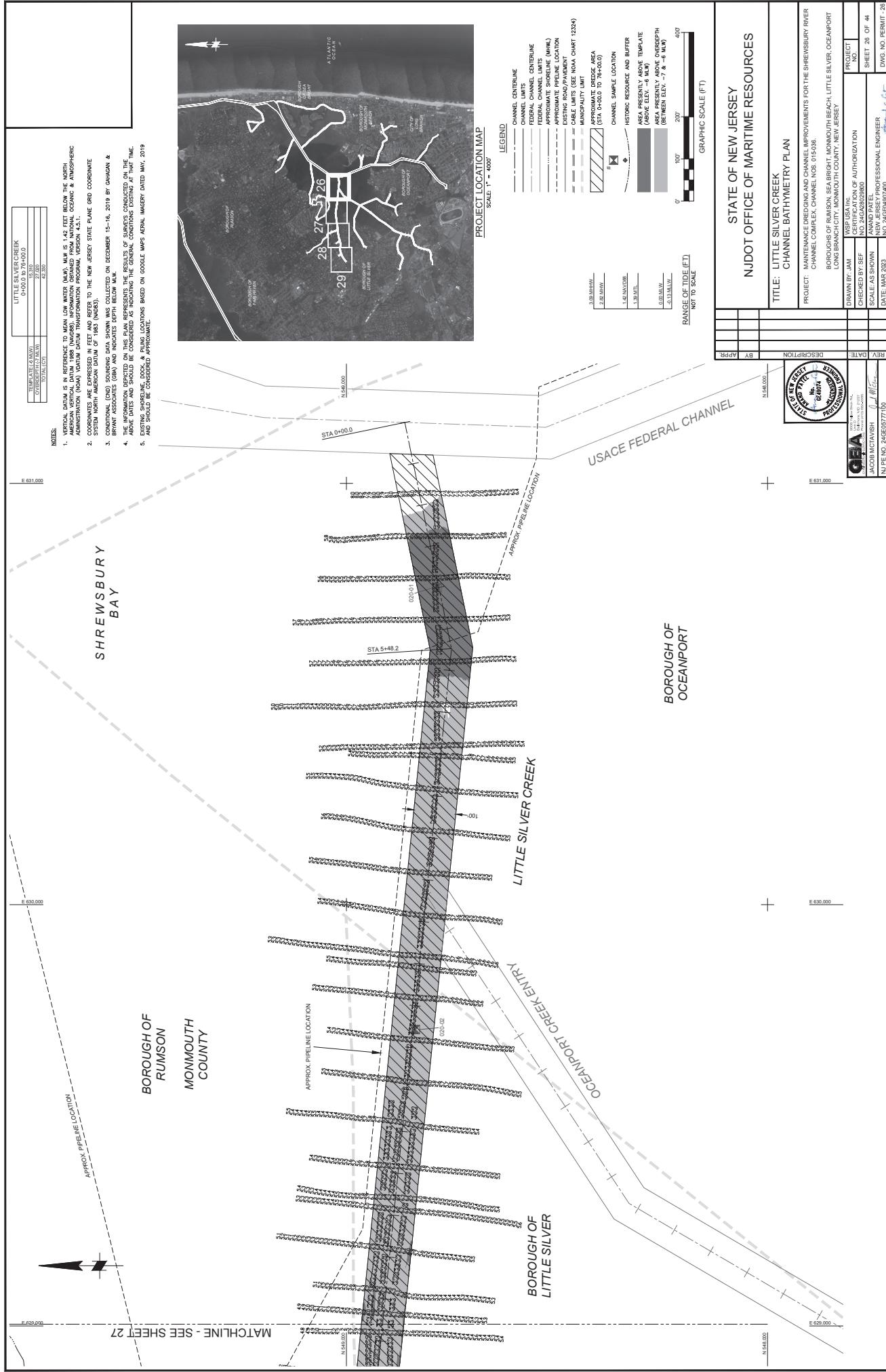


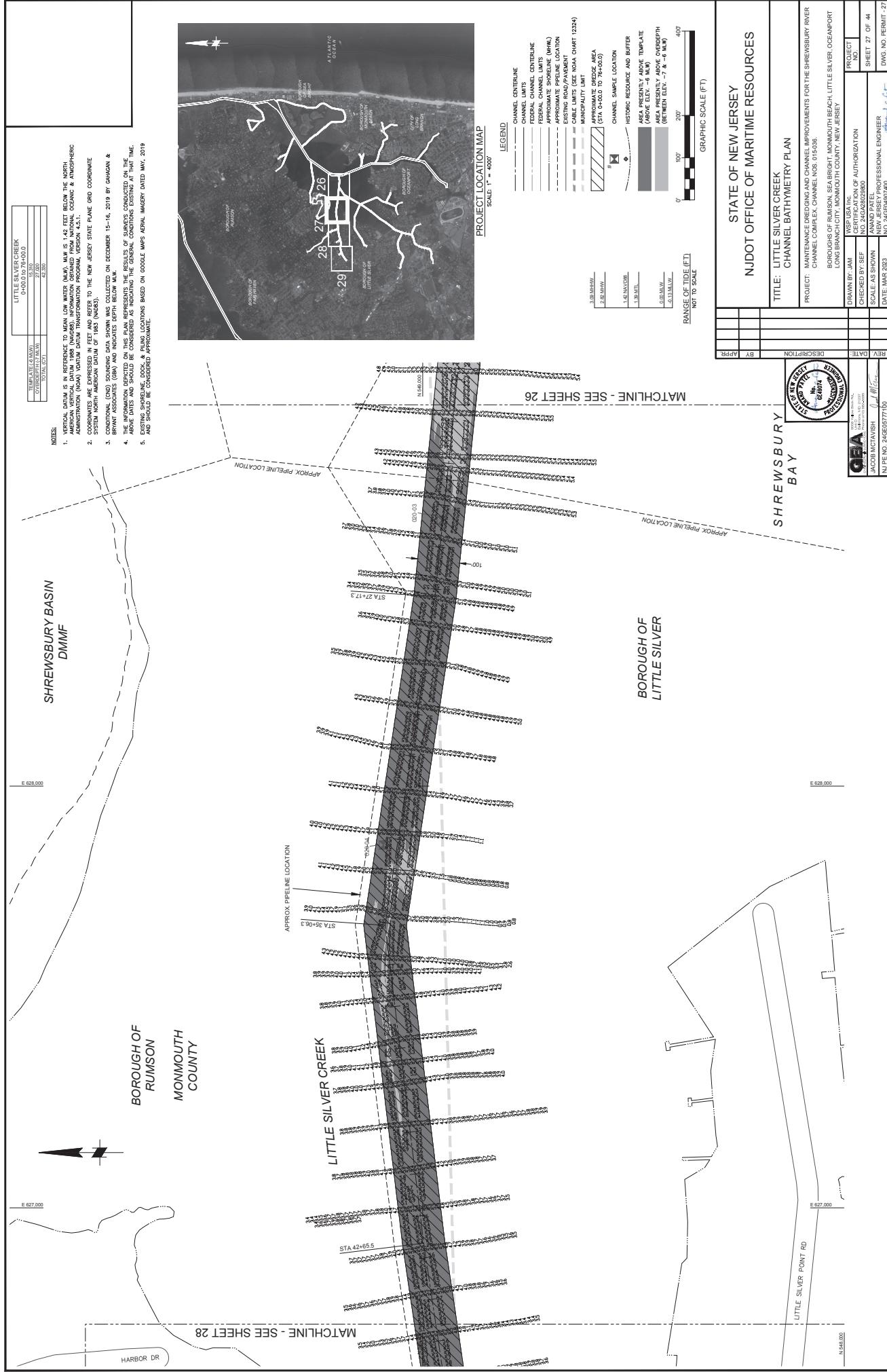


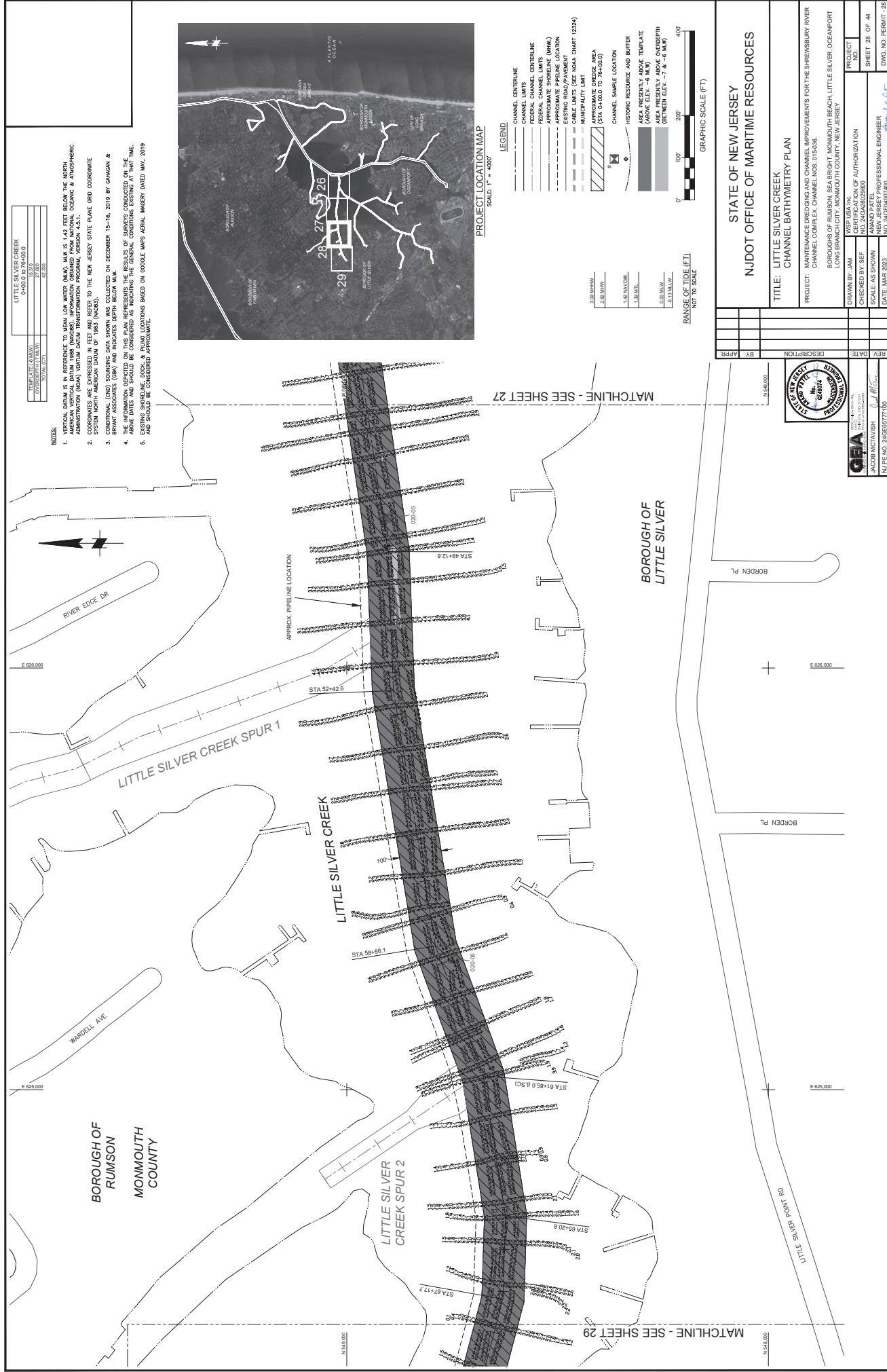


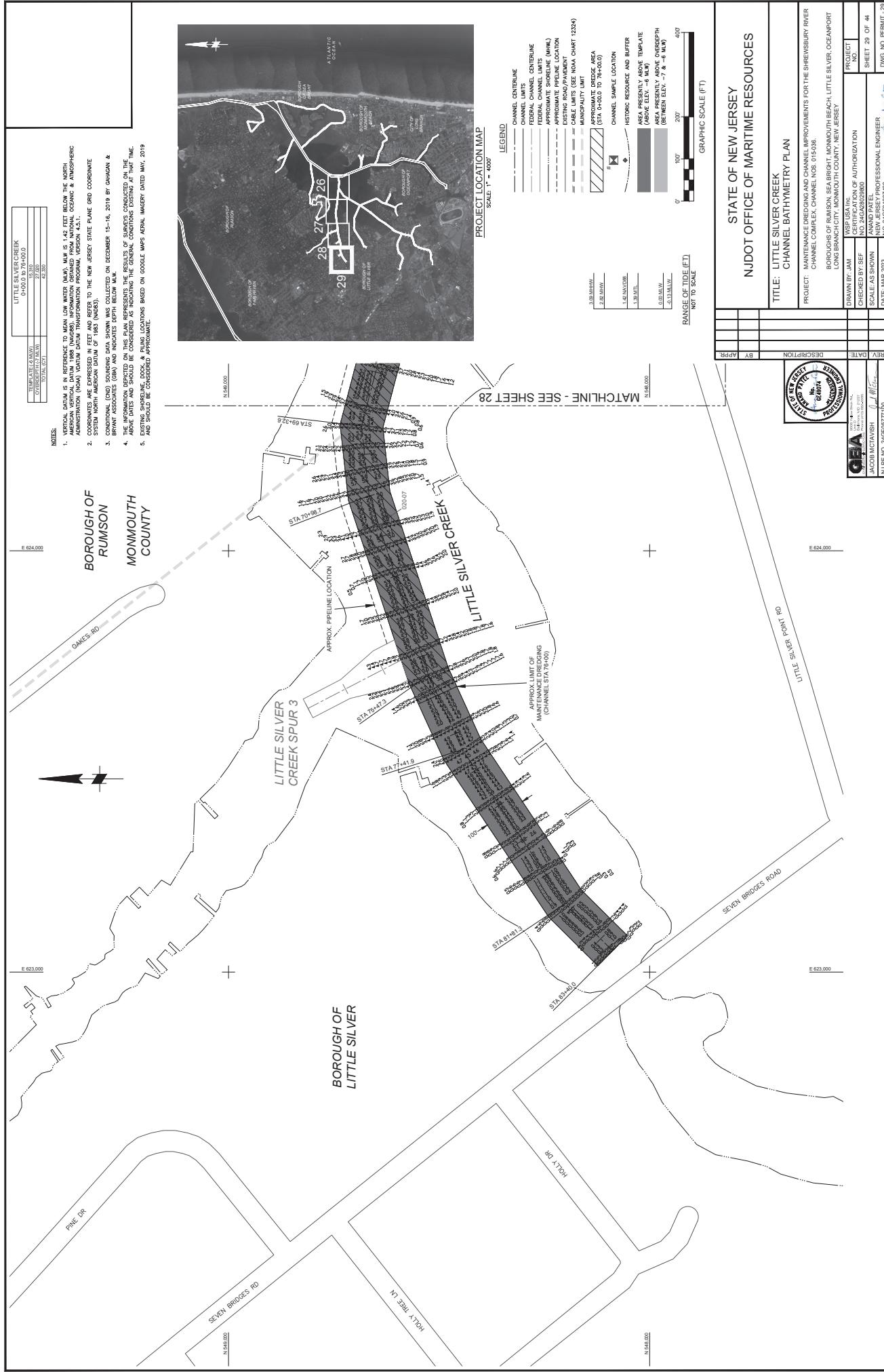


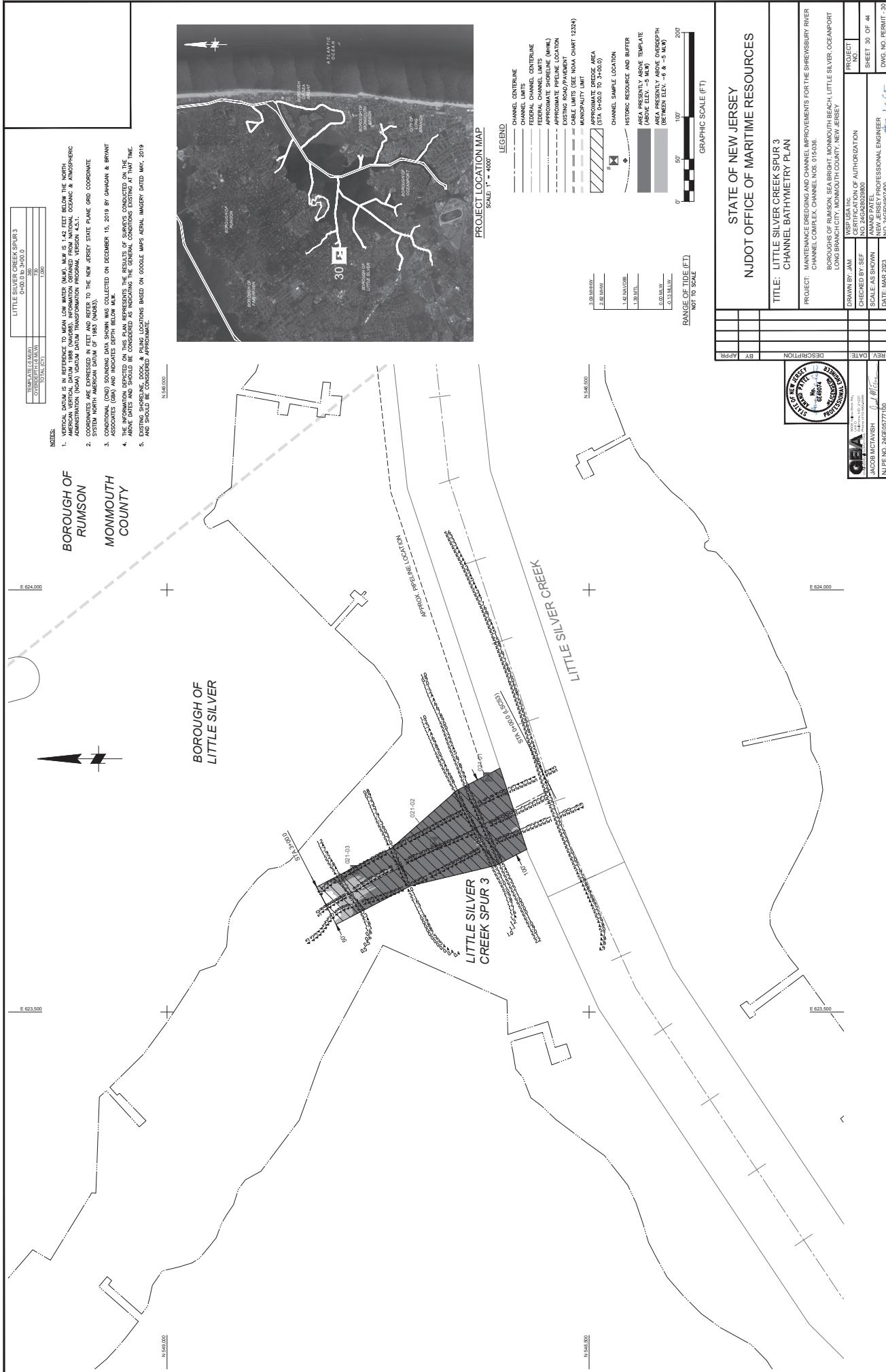


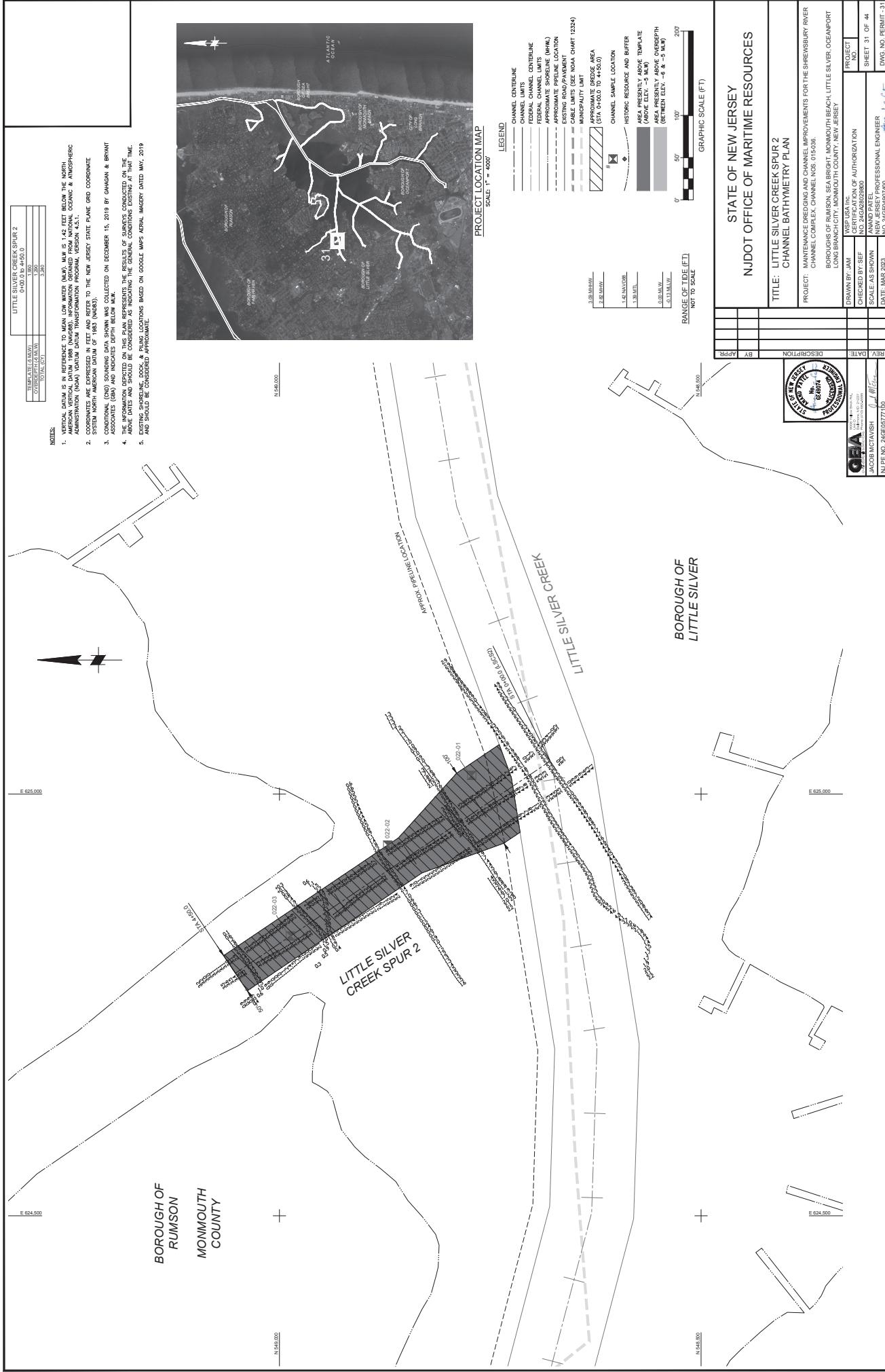


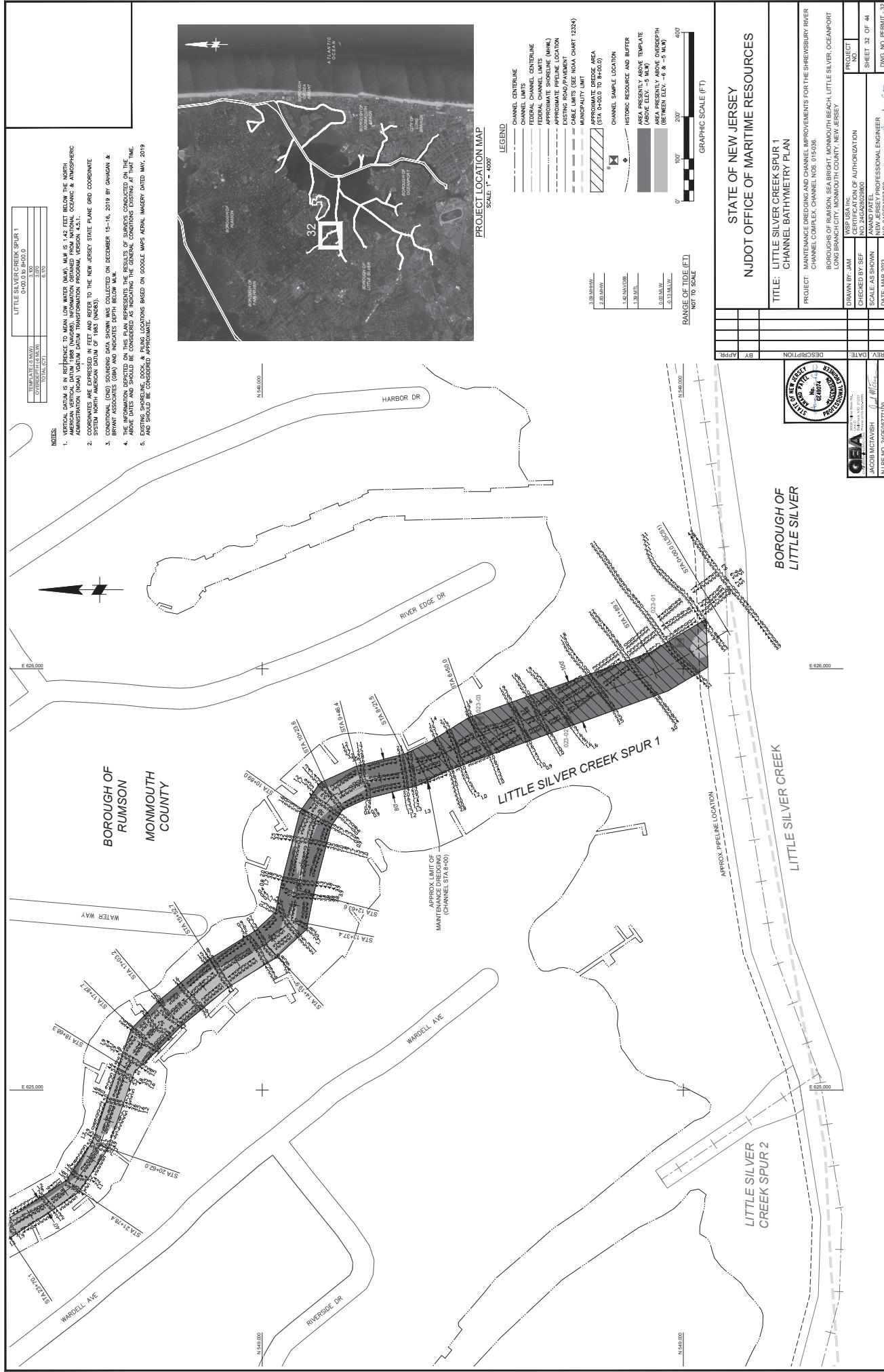


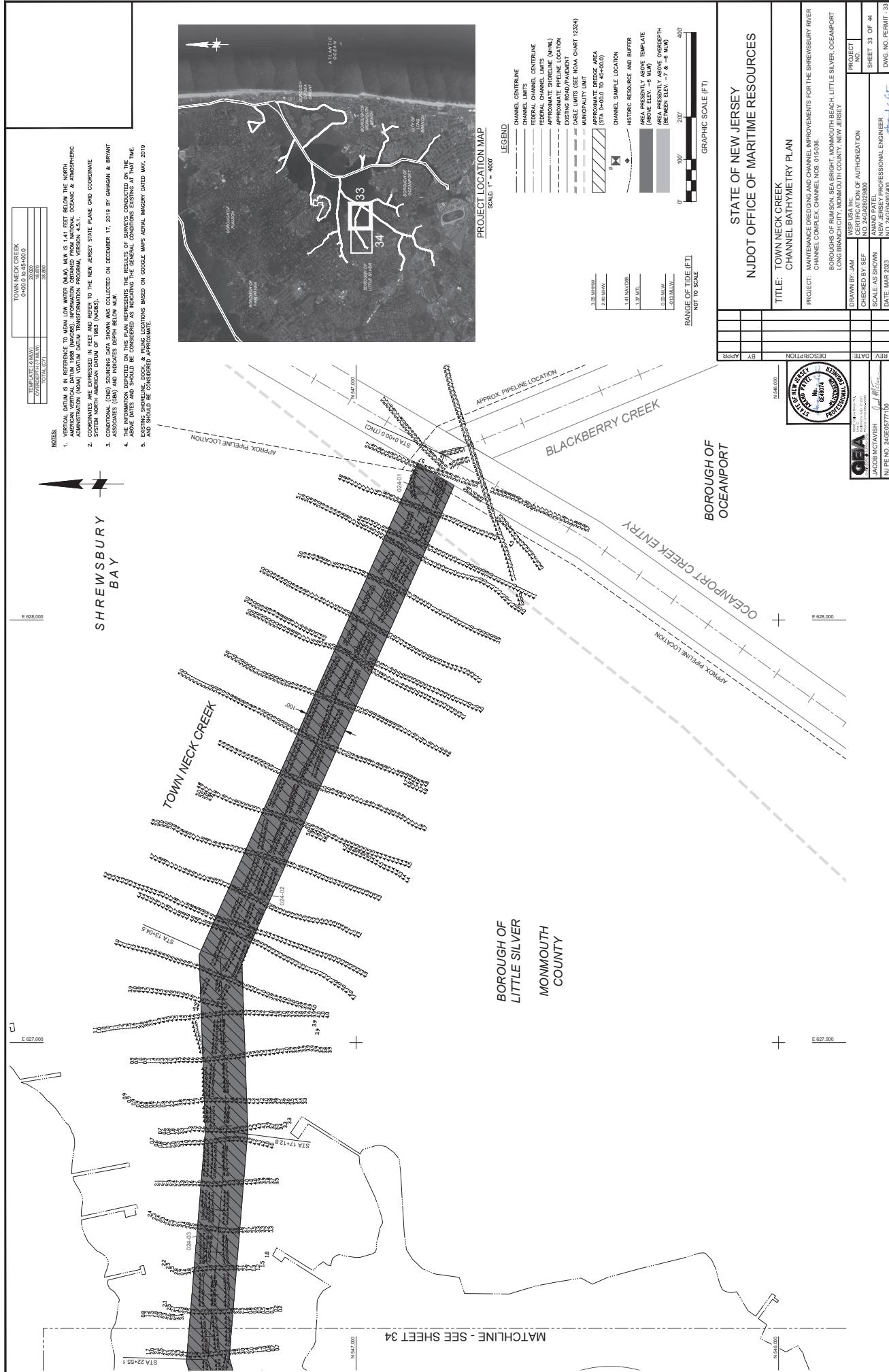


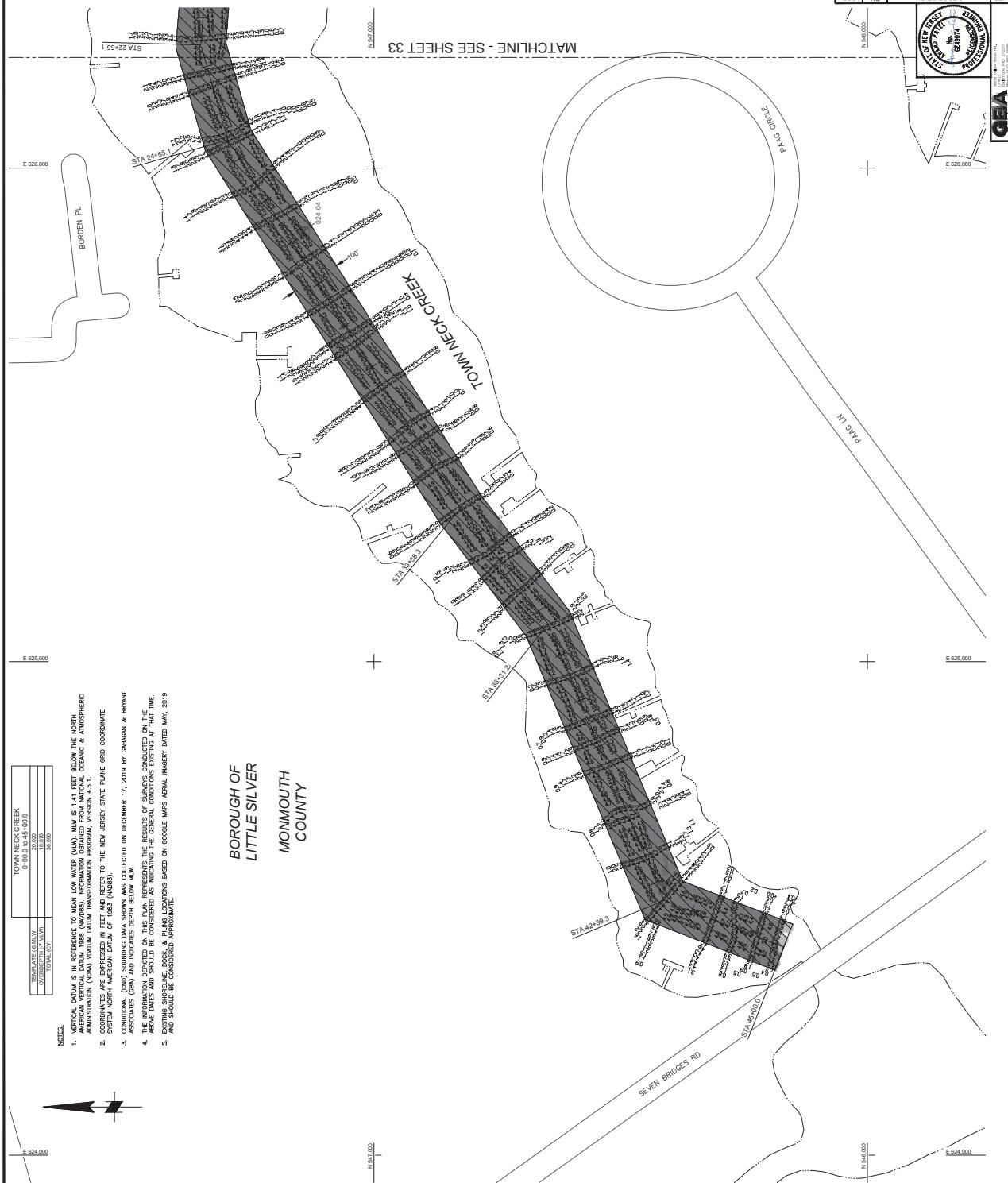
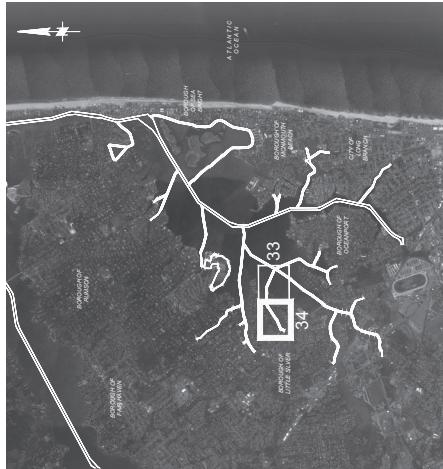




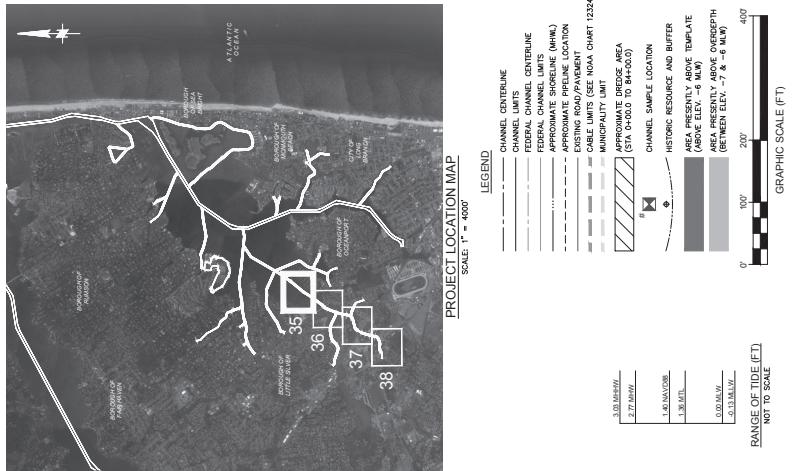
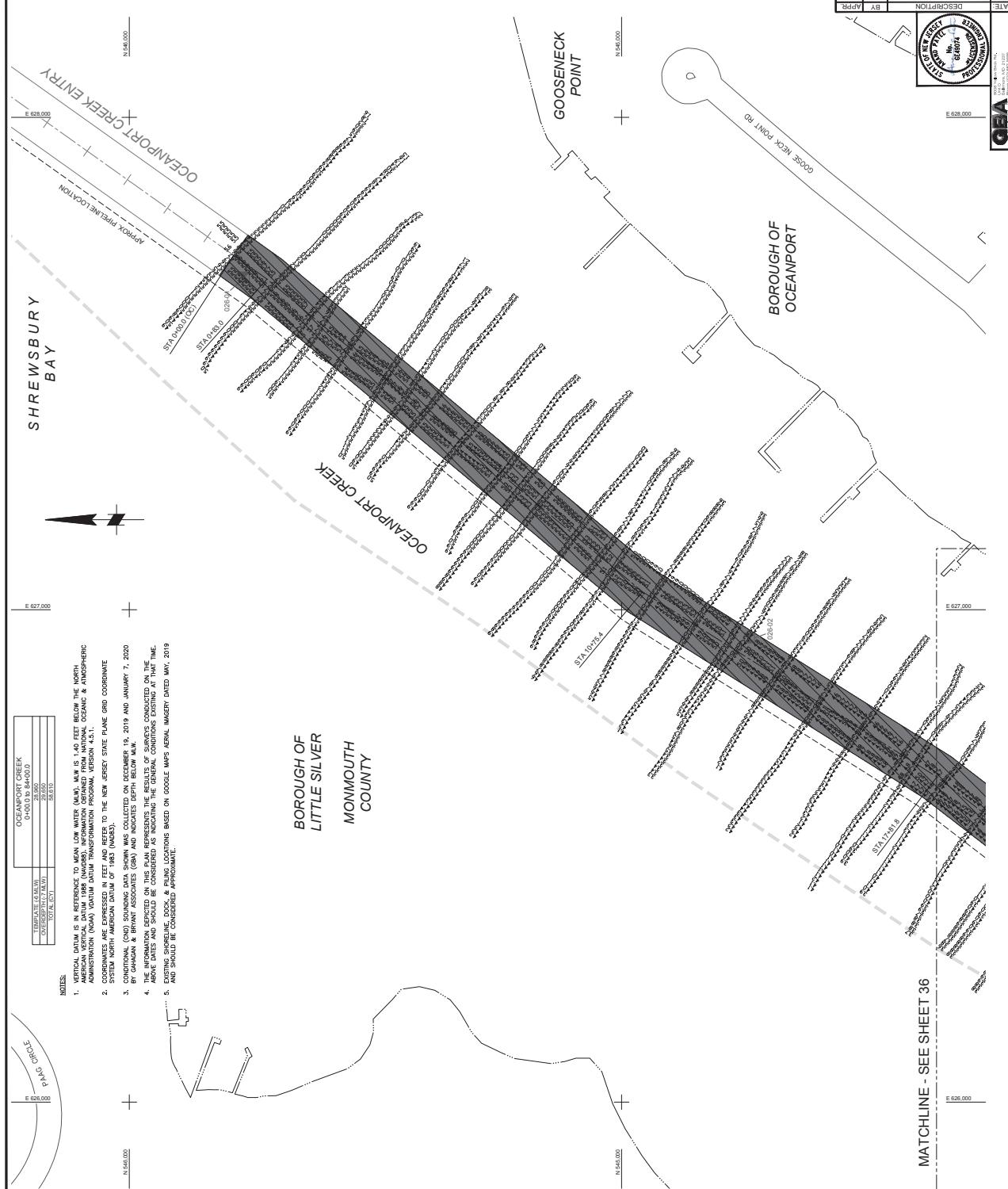




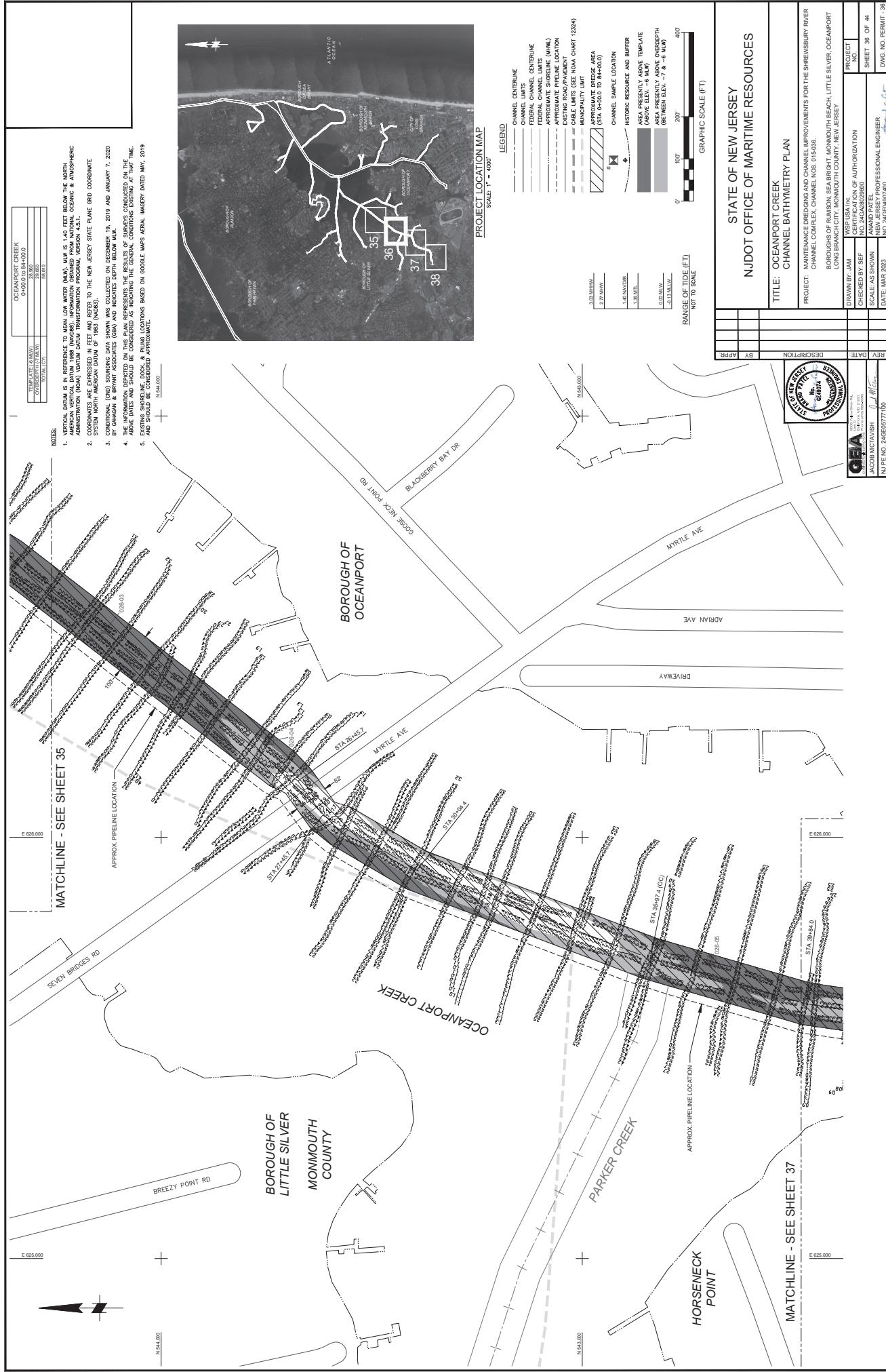


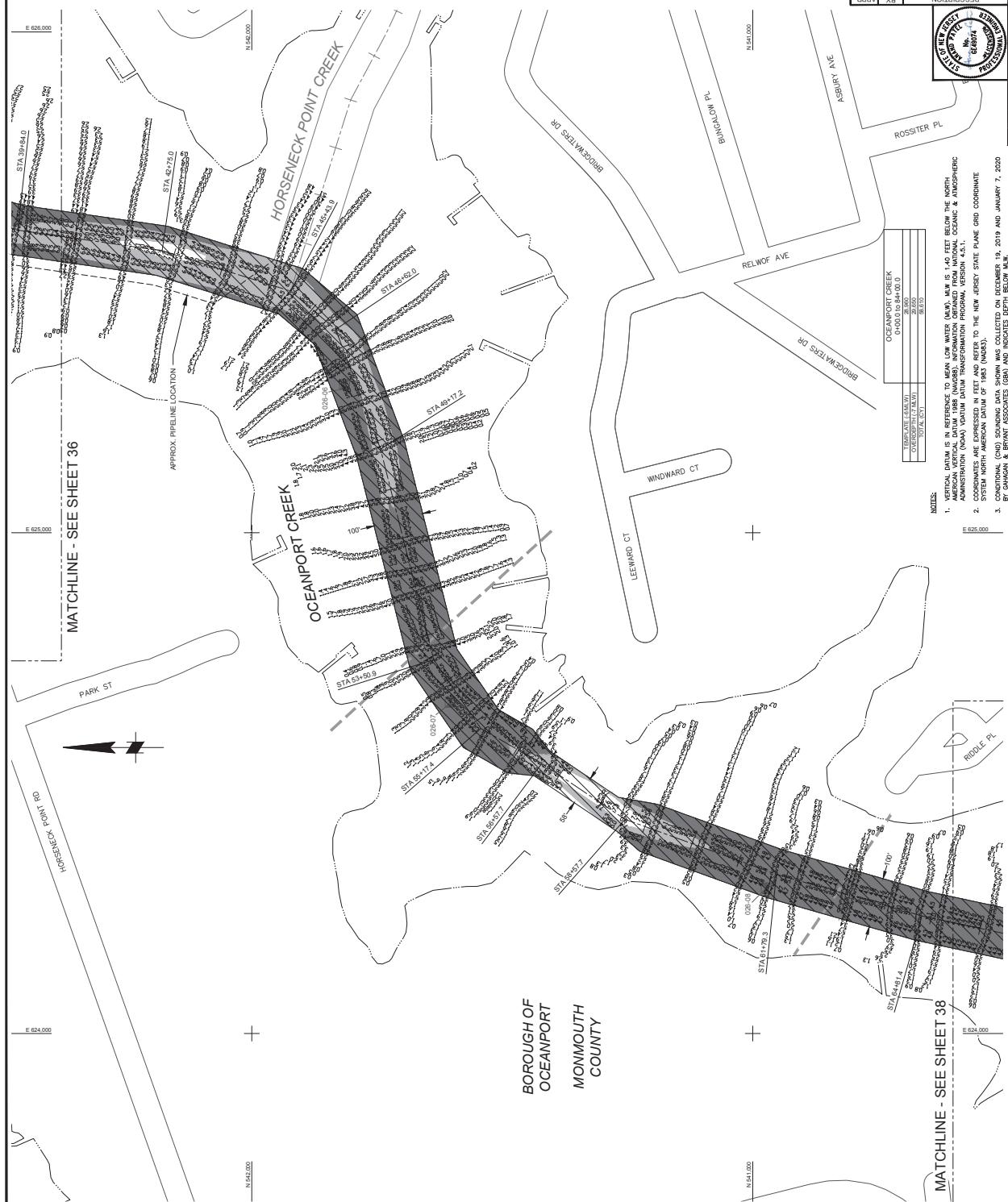
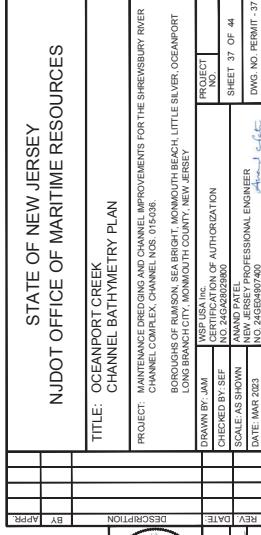
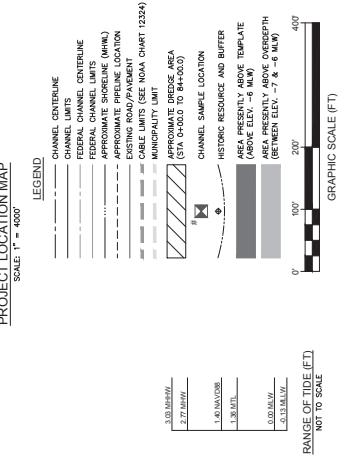
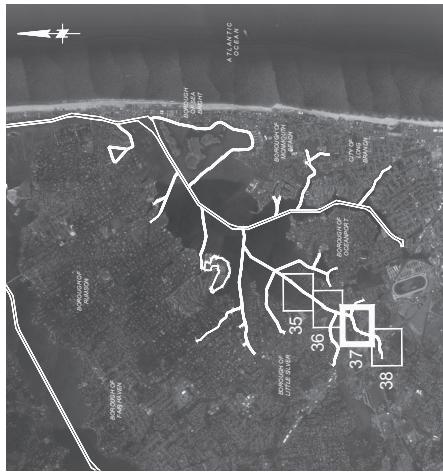


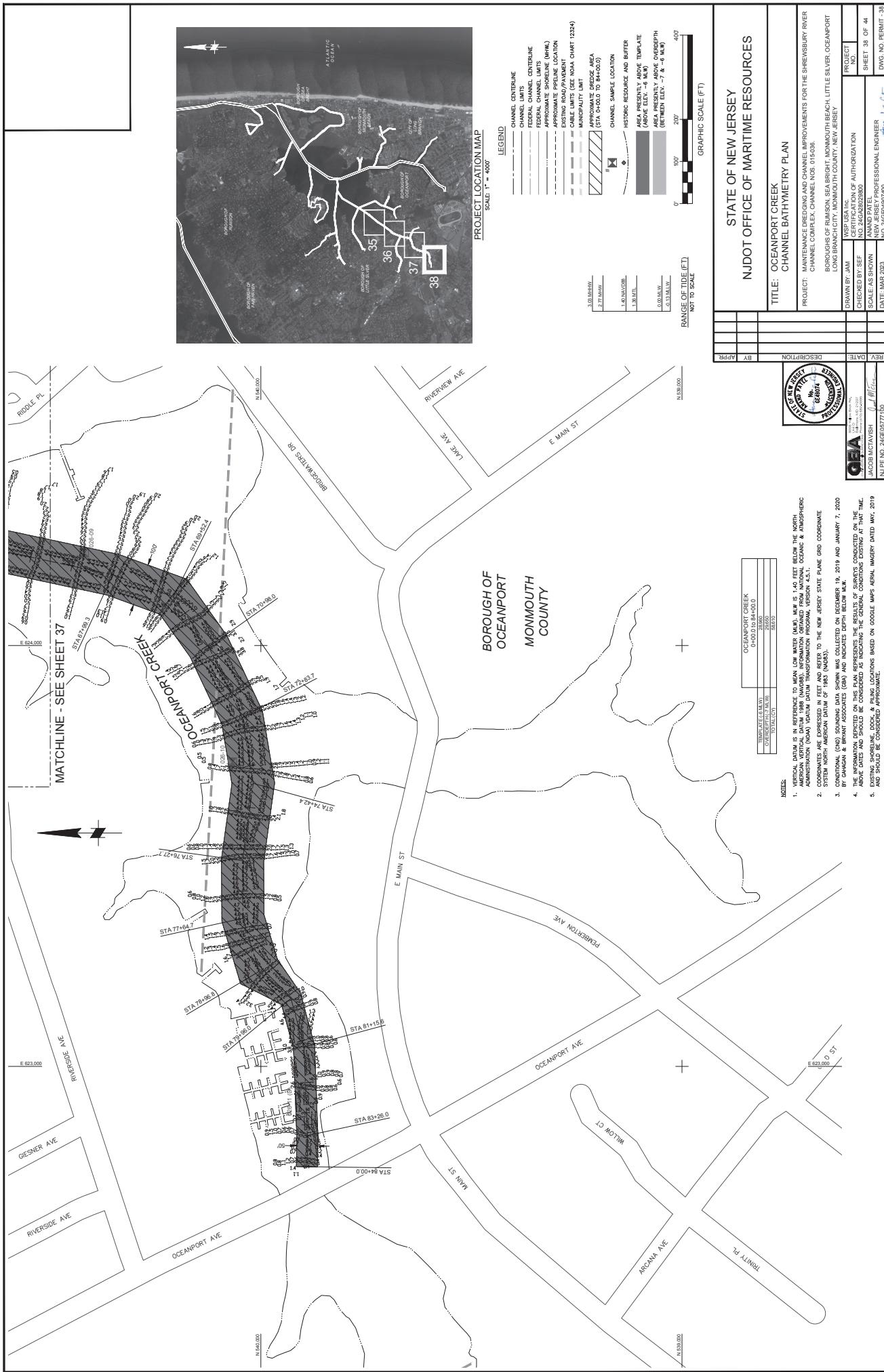
300900731 Marine Transp System Planning Task Order TA - Scherwesbury Hwy/Nearsk-Rumson Hwy/Sherwesbury River Channel Complex Geom and Bathy Plots - FINAL DRAFT USINSIDEL/Shewesbury River Channel Complex Geom and Bathy Plans/dwg

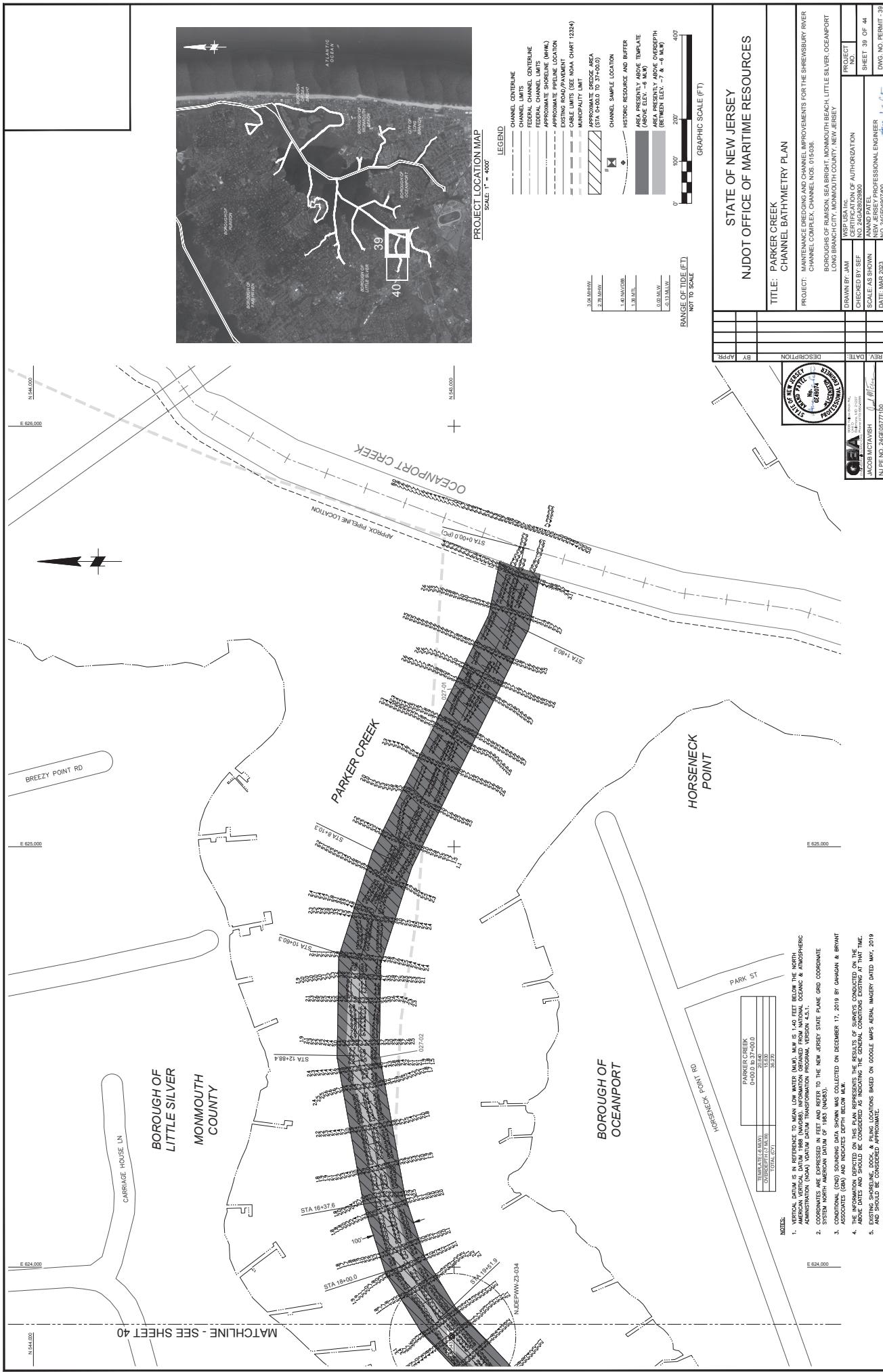


Transp System Planning Task Order 7A - Schwesbury-Haneskirk-Rumson Hwy/Schwesbury River Channel Complex Geom and Bathy Plans - FINAL DRAFT USCGD/Schwesbury River Channel Complex Geom and Bathy Plans.dwg









	PARKER CREEK
	0+000' to 37+000'
TEMP/DEPTH (6 MULVY)	20.640
VERGE/DEPTH (7 MULVY)	15.630
TO FAL (CY)	36.270

NOTES:

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1. KEGDA DATA IS BEING PROVIDED TO YOU IN THE FORM OF A NEW WATER LEVEL AND GROUNDWATER INFORMATION SYSTEM (NWAT) FOR THE STATE OF NEW JERSEY. NWAT IS A COMPUTER PROGRAM, VERSION 4.5.1, WHICH IS A PART OF THE STATE'S LAND INFORMATION SYSTEM. NWAT IS A COMPUTER PROGRAM, VERSION 4.5.1, WHICH IS A PART OF THE STATE'S LAND INFORMATION SYSTEM.
 2. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NORTH AMERICAN DATUM OF 1983) (NAD83).
 3. CONDITIONAL (S) AND UNCONDITIONAL (U) DATA WAS COLLECTED ON DECEMBER 17, 2019 BY SHAGAN & BRYANT
 4. THE INFORMATION DEFECTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE DATE AND LOCATIONS INDICATED ON THE DRAWINGS.
 5. LUSING SHAGAN & BRYANT PLACED CONDITIONS ON THE DRAWINGS AS INDICATED IN THE DRAWINGS.
 6. THE INFORMATION CONTAINED ON THIS PLAN IS FOR THE USE OF THE ORIGINAL DRAWINGS DATED MAY, 2019



PROJECT LOCATION MAP

LEGEND

CHANNEL, CENTERLINE
— CHANNEL LIMITS
— FEDERAL CHANNEL LIMITS
..... APPROXIMATE SHORELINE (MM)
- - - APPROXIMATE PIPELINE LOCATION
— EXISTING ROAD/PAVED AREA
— CHANNEL LIMITS (SEE NOIA CHART 12324)
— APPROXIMATE DREDGE AREA
— MUNICIPALITY BOUNDARY

STATE OF NEW JERSEY
NJDOT OFFICE OF MARITIME RESOURCES

PARKER CREEK
CHANNEL BATHYMETRY PI AN

Maintenance dredging and channel improvement
Channel complex, Channel Nos. 015-036.
Boroughs of Rumson, Sea Bright, Monmouth

LONG BRANCH CITY, MUNICIPAL COURT, N.J.
WSP USA Inc.
CERTIFICATION OF AUTHORIZATION
NO. 24GA28029800
ANAND PATEL

NO. 24GE04907400

NOTES:

1. VERTICAL DATA IS IN REFERENCE SYSTEM NORTH AMERICAN DATUM 1983
2. COORDINATES ARE EXPRESSED IN UTM
3. CONDITIONAL (GHD) SOUNDING ASSOCIATES (GSA) AND INDIA
4. THE INFORMATION REPORTED ON THIS SHEET IS FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION.
5. EASING, SPREADING, DOKS, & SHALLOW CHANNELS ARE NOT SHOWN.

MATCHLINE - SEE SHEET 39

PARKER CREEK

BOROUGH OF OCEANPORT

BOROUGH OF LITTLE SILVER

MONMOUTH COUNTY

RIVERS EDGE DR

N RIVERS EDGE DR

SUNNYLANDS CT

EDGEGOOD AVE

RIVERVIEW AVE

FARVIEW AVE

HAZEN AVE

ALLEN AVE

OCEANPORT AVE

HAZEN AVE

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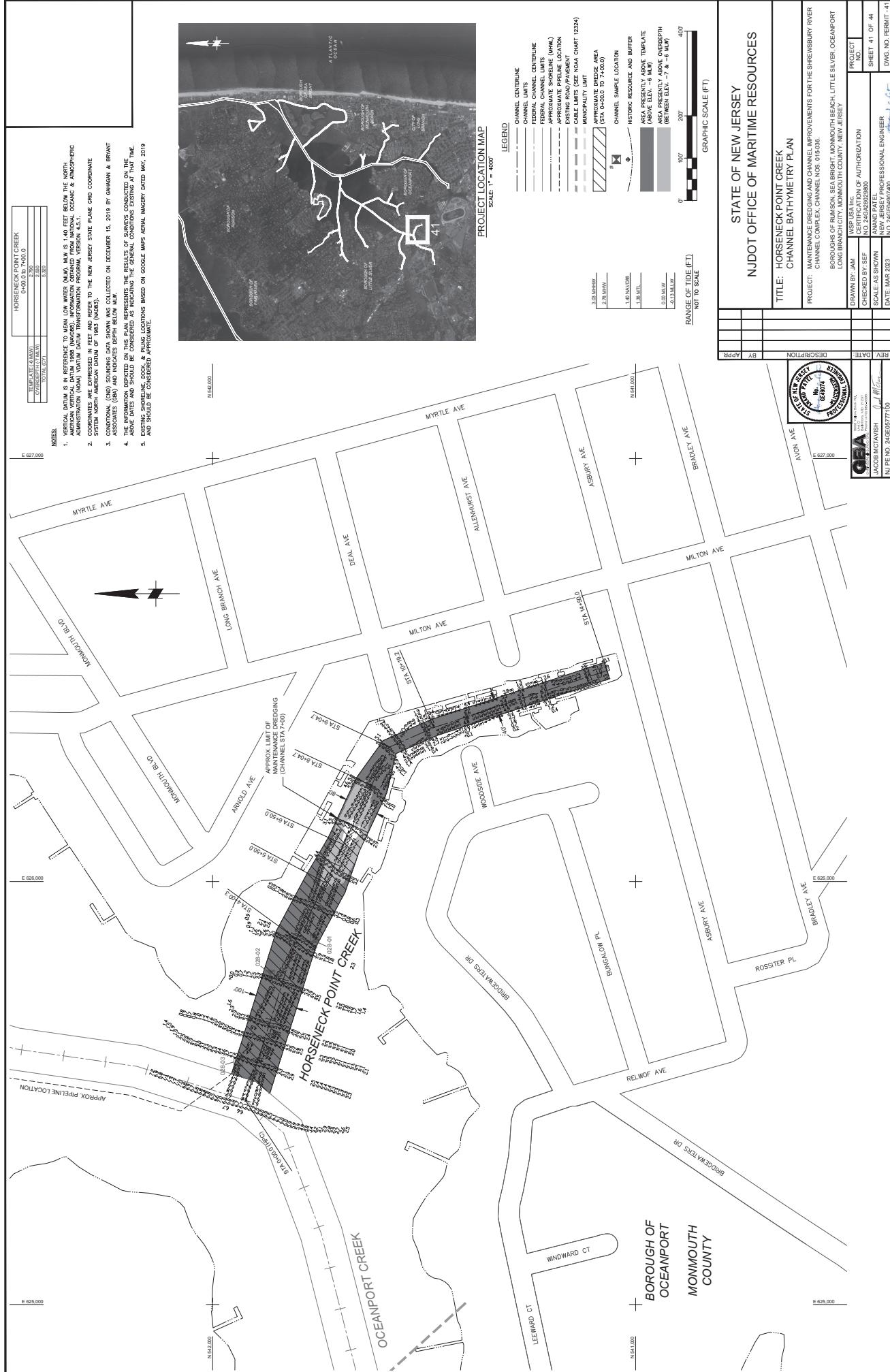
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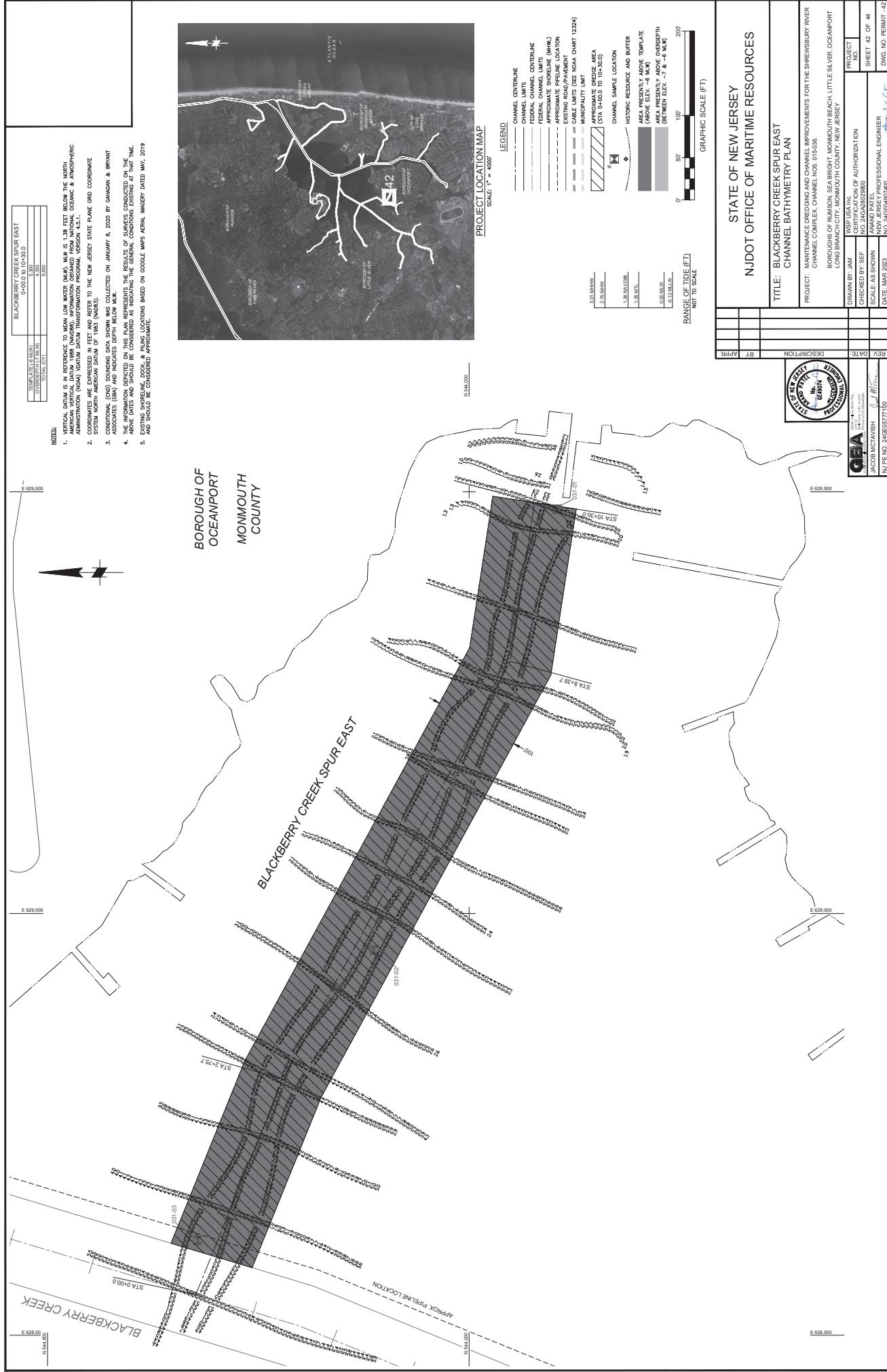
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RUNS ON CDF PROPOSED STAGE STORAGE TABLE		
ELEVATION (NABOVE F.T.)	AREA (SF)	CUMULATIVE VOLUME (C.Y.)
80 to 90	24.6	86,000
100 to 111	77.6	87,000
111 to 144	28.5	90,000
144 to 240	20.5	92,000
160 to 188	20.5	97,000
188 to 220	21.5	103,000
200 to 211	21.0	103,000

NOTES:

1. VERTICAL DUTY IN REFERENCE TO NORTH AMERICAN VERTICAL Datum 1988 (NAVD88).
 2. NATIONAL GEOD. & ATMOSPHERIC ADMINISTRATION (NGA) YACHT TRANSFORMATION PROCEDURE, Version 4.5.
 3. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983 HARN).
 4. HIGH TO LOW (H2L) AND LOW TO HIGH (L2H) SWEEPING ON TWO SHEET. WE ARE NOT ON THE AERIAL MASTEN AND SHOULD HE CONSIDERED INAPPROPRIATE.
 5. STAGE STORAGE SCALES ARE APPROXIMATE AND REPRESENTATION OF A CONFIDENTIAL DESIGN. A MINIMUM BEND ELEVATION OF 27' AND A MINIMUM OF 1' FREEBOARD ARE ASSUMED IN THIS DESIGN.

