Legend

Project Location

E-1

N
W E
S

0 4,000 Feet

1 inch = 2,000 feet

U.S.G.S. Quadrangle 7.5 Minute Map, Tuckerton, NJ (2019)

This map was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.

Map Document: (C:\GIS_Projects\Rutgers_Field_Station\MXD\USACE_IP\RUMFS_USGS_LatLong.mxd)
6/13/2023 1:50:57 PM TAY91282

MOTT MACDONALD

111 Wood Avenue South
Iselin, New Jersey 08830-4112

RUTGERS UNIVERSITY
OCEAN COUNTY, NEW JERSEY
MARINE FIELD STATION RECONSTRUCTION
FIGURE 1 - USGS MAP

Designed	Drawn	Checked	Approved	Date
JLM				6/13/2023

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RUTGERS
THE STATE UNIVERSITY OF NEW JERSEY

Rutgers Marine Field Station Dock Reconstruction

Rutgers University Marine Field Station

DREDGING PERMIT PLAN

SHEET INDEX

GENERAL DRAWINGS

G100 COVER SHEET

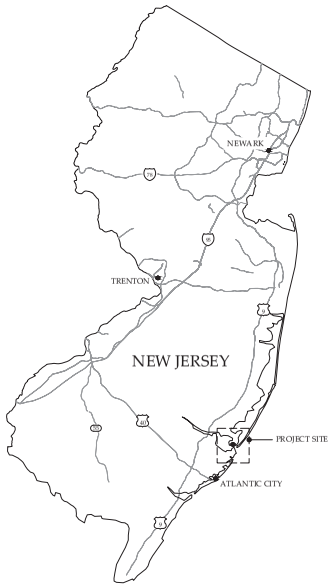
MARINE DRAWINGS

MA100 EXISTING SITE PLAN
MA101 PROPOSED DREDGE PLAN
MA102 FUTURE SITE PLAN UNDER DESIGN

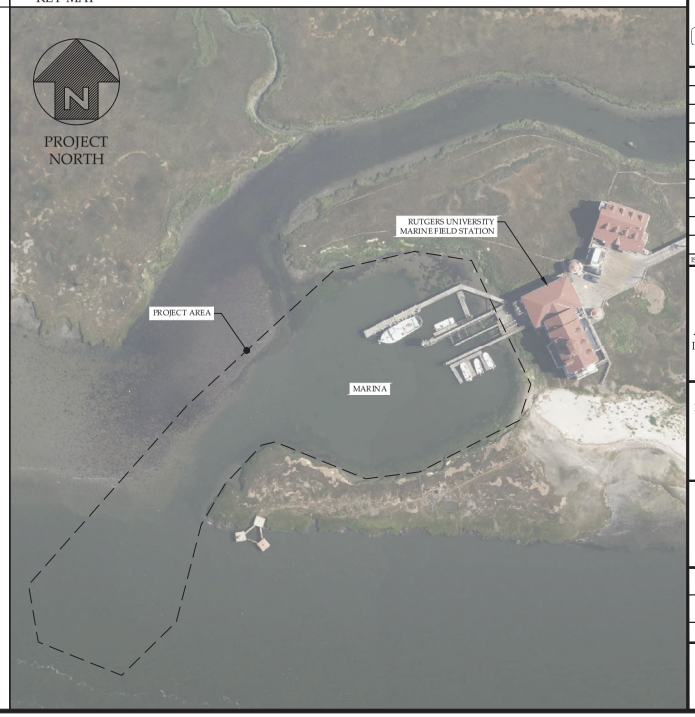
MA200 DREDGE SECTIONS

E-2

LOCATION MAP



KEY MAP



RESERVED AREA FOR NJDCA APPROVAL STAMP

RUTGERS
THE STATE UNIVERSITY OF NEW JERSEY

MOTT MACDONALD
3 Paragon Way
Freehold, New Jersey 07728
Certificate No. 24GA28016600

DS

STATE OF NEW JERSEY
DOUGLAS A. GAFFNEY
No. GE050026400
LICENSED PROFESSIONAL ENGINEER

Docu Signed by
Douglas A. Gaffney
6/29/2023

DOUGLAS GAFFNEY, PE
MOTT MACDONALD

ISSUE	BY	DATE	DESCRIPTION

APPROVED FOR RUTGERS-THE STATE UNIVERSITY OF NEW JERSEY

INSTITUTIONAL PLANNING AND OPERATIONS
PLANNING, DEVELOPMENT, AND DESIGN
PISCATAWAY, NEW JERSEY

PROJECT TITLE
Rutgers Marine Field Station Dock Reconstruction
Rutgers University Marine Field Station
800 Great Bay Blvd.
Little Egg Harbor Towhship, NJ 08087
New Burnswick Campus

DRAWING TITLE
COVER SHEET

BLDG. NO.	RU PROJECT NO.	DRAWN BY
	7252	T. Morrison
SCALE	DATE	CHECKED BY
AS NOTED	6/29/23	D. Gaffney

PROJ. NO.: 507105855

DRAWING NUMBER
G100

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NOTES

1. SURVEY PROVIDED BY MIDATLANTIC ENGINEERING PARTNERS DATED MARCH 21, 2022.
2. HORIZONTAL COORDINATE SYSTEM: NEW JERSEY STATE PLANE (NAD83), US FEET.
3. VERTICAL COORDINATE SYSTEM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

SITE PLAN

EXISTING

0 30 60

SCALE IN FEET

TIDAL DATUMS

DESCRIPTION	NAVD88
MEAN LOWER LOW WATER (MLLW)	-1.83'
MEAN LOW WATER (MLW)	-1.69'
MEAN HIGH WATER (MHW)	+1.17'
NATIONAL GEODETIC VERTICAL DATUM OF 29 (NGVD29)	+1.27'
MEAN HIGHER HIGH WATER (MHHW)	+1.50'

*BASED ON STATION ID 8534319 GREAT BAY SHOOTING THOROFARE, NJ

RESERVED AREA FOR NJDCA APPROVAL STAMP

RUTGERS
THE STATE UNIVERSITY OF NEW JERSEY

MOTT MACDONALD
3 Paragon Way
Freehold, New Jersey 07728
Certificate No. 24GA28016600

DS

STATE OF NEW JERSEY
Douglas R. Gaffney
No. GE04862600
LICENSED PROFESSIONAL ENGINEER

6/29/2023
DOUGLAS GAFFNEY, PE
MOTT MACDONALD

ISSUE	BY	DATE	DESCRIPTION

APPROVED FOR RUTGERS-THE STATE UNIVERSITY OF NEW JERSEY

INSTITUTIONAL PLANNING AND OPERATIONS
PLANNING, DEVELOPMENT, AND DESIGN
PISCATAWAY, NEW JERSEY

PROJECT TITLE
Rutgers Marine Field Station Dock Reconstruction
Rutgers University Marine Field Station
800 Great Bay Blvd.
Little Egg Harbor Towhship, NJ 08087
New Burnswick Campus

DRAWING TITLE
EXISTING SITE PLAN

BLDG. NO.	RU PROJECT NO.	DRAWN BY
	7252	T. Morrison
SCALE	DATE	CHECKED BY
1" = 20'	6/29/23	D. Gaffney

PROJ. NO.: 507105855

DRAWING NUMBER
MA100

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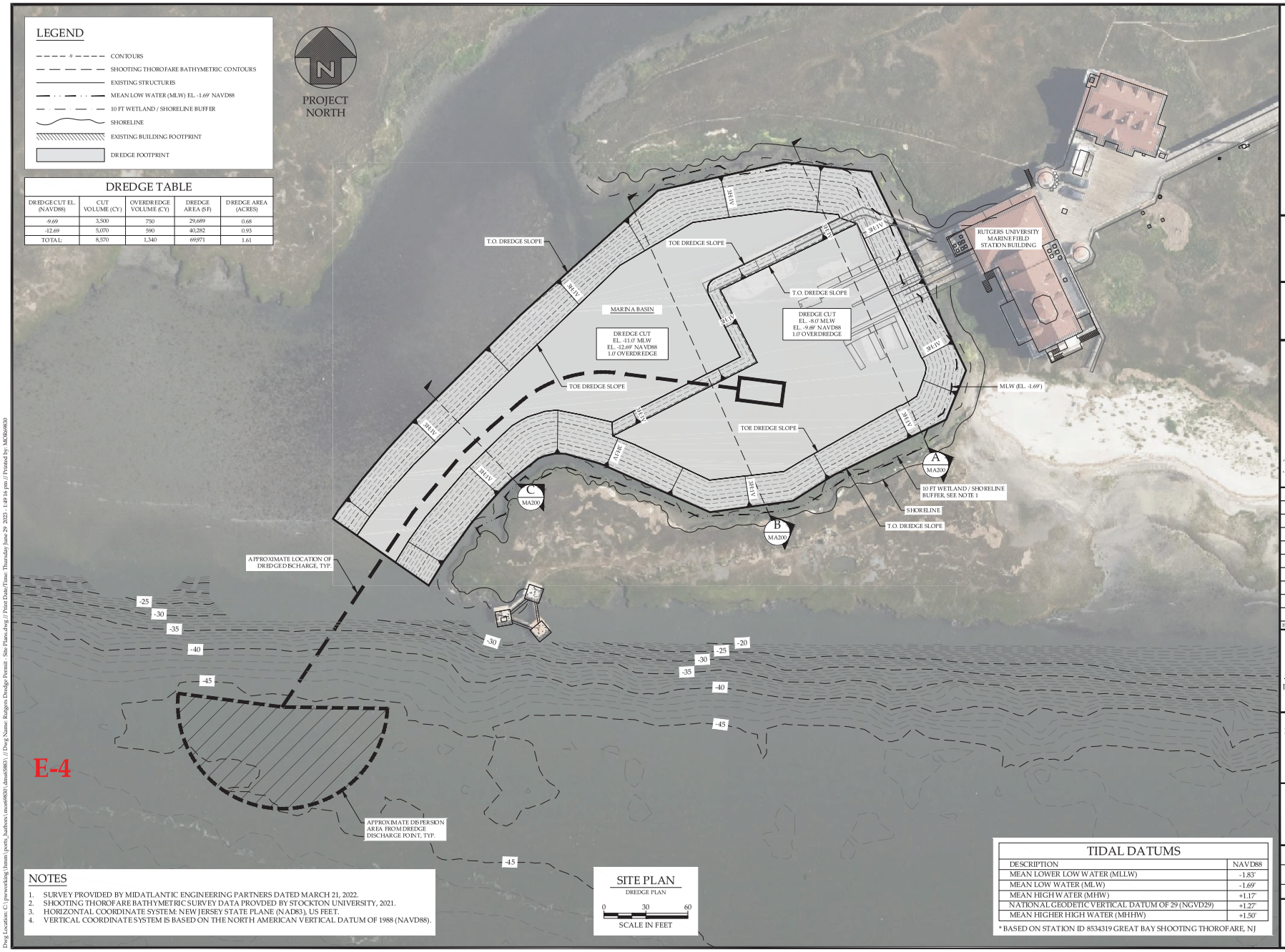

DREDGE TABLE

DREDGE CUT EL. (NAVD88)	CUT VOLUME (CY)	OVERDREDGE VOLUME (CY)	DREDGE AREA (SF)	DREDGE AREA (ACRES)
-9.69	3,500	750	29,689	0.68
-12.69	5,070	590	40,282	0.93
TOTAL:	8,570	1,340	69,971	1.61

NOTES

1. SURVEY PROVIDED BY MIDATLANTIC ENGINEERING PARTNERS DATED MARCH 21, 2022.
2. SHOOTING THOROFARE BATHYMETRIC SURVEY DATA PROVDED BY STOCKTON UNIVERSITY, 2021.
3. HORIZONTAL COORDINATE SYSTEM: NEW JERSEY STATE PLANE (NAD83), US FEET.
4. VERTICAL COORDINATE SYSTEM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

SITE PLAN

DREDGE PLAN

0 30 60

SCALE IN FEET

TIDAL DATUMS

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* BASED ON STATION ID 8534319 GREAT BAY SHOOTING THOROFARE, NJ

RESERVED AREA FOR NJDCA APPROVAL STAMP

RUTGERS
THE STATE UNIVERSITY OF NEW JERSEY

MOTT MACDONALD
3 Paragon Way
Freehold, New Jersey 07728
Certificate No. 24GA28016600

DS

STATE OF NEW JERSEY
DOUGLAS A. GAFFNEY
No. GE06062600
LICENSED PROFESSIONAL ENGINEER

Docusigned by: Douglas R. Gaffney
6/29/2023

DOUGLAS GAFFNEY, PE
MOTT MACDONALD

ISSUE	BY	DATE	DESCRIPTION

APPROVED FOR RUTGERS-THE STATE UNIVERSITY OF NEW JERSEY

INSTITUTIONAL PLANNING AND OPERATIONS
PLANNING, DEVELOPMENT, AND DESIGN
PISCATAWAY, NEW JERSEY

PROJECT TITLE

Rutgers Marine Field Station Dock Reconstruction
Rutgers University Marine Field Station
800 Great Bay Blvd.
Little Egg Harbor Towhship, NJ 08087
New Burnswick Campus

DRAWING TITLE

PROPOSED DREDGE PLAN

BLDG. NO.	RU PROJECT NO.	DRAWN BY
	7252	T. Morrison
SCALE	DATE	CHECKED BY
1" = 30'	6/29/23	D. Gaffney

PROJ. NO.: 507105855

DRAWING NUMBER

MA101

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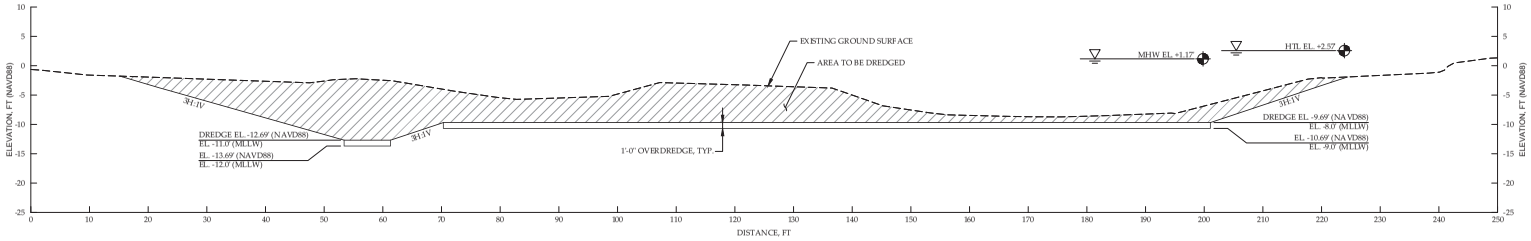
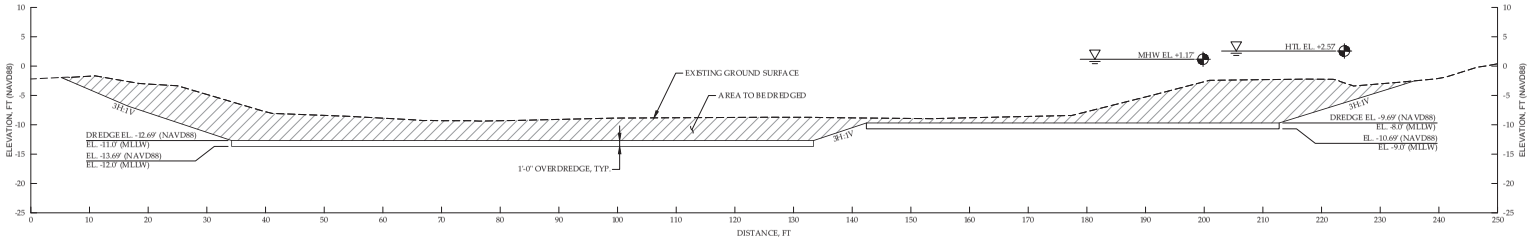


A MA101 SECTION
MARINA DREDGING

SCALE IN FEET



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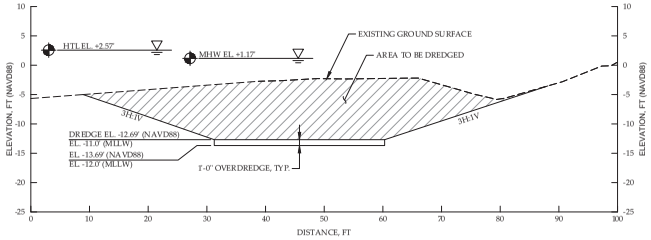
MARINA DREDGING

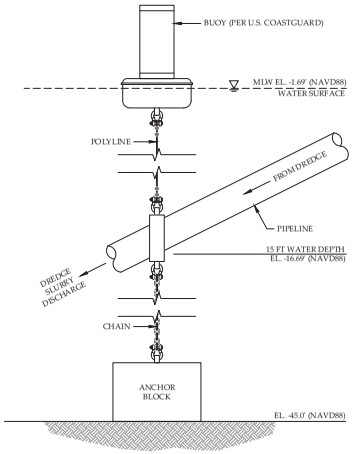
SCALE IN FEET



C MA101 SECTION
MARINA DREDGING

SCALE IN FEET

E-5



TYPICAL DETAIL
DISCHARGE DEPTH OF PIPING
N.T.S.

TIDAL DATUMS	
DESCRIPTION	NAVD88
MEAN LOWER LOW WATER (MLLW)	-1.83'
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RESERVED AREA FOR NJDCA APPROVAL STAMP

RUTGERS
THE STATE UNIVERSITY OF NEW JERSEY

MOTT MACDONALD
3 Paragon Way
Freehold, New Jersey 07728
Certificate No. 24GA28016600

DS

STATE OF NEW JERSEY
No. GE04062600
LICENSED PROFESSIONAL ENGINEER

6/29/2023

ISSUE	BY	DATE	DESCRIPTION

APPROVED FOR RUTGERS-THE STATE UNIVERSITY OF NEW JERSEY

DAVID C. SCHULZ, AIA, PP, AUA — DATE
UNIVERSITY ARCHITECT

INSTITUTIONAL PLANNING AND OPERATIONS
PLANNING, DEVELOPMENT, AND DESIGN
PISCATAWAY, NEW JERSEY

PROJECT TITLE
Rutgers Marine Field Station Dock Reconstruction
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Little Egg Harbor Towhship, NJ 08087
New Burnswick Campus

DRAWING TITLE
DREDGE SECTIONS

BLDG. NO.	RU PROJECT NO.	DRAWN BY
	7252	T. Morrison
SCALE	DATE	CHECKED BY
1" = 10'	6/29/23	D. Gaffney

PROJ. NO.: 507105855

DRAWING NUMBER
MA200

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