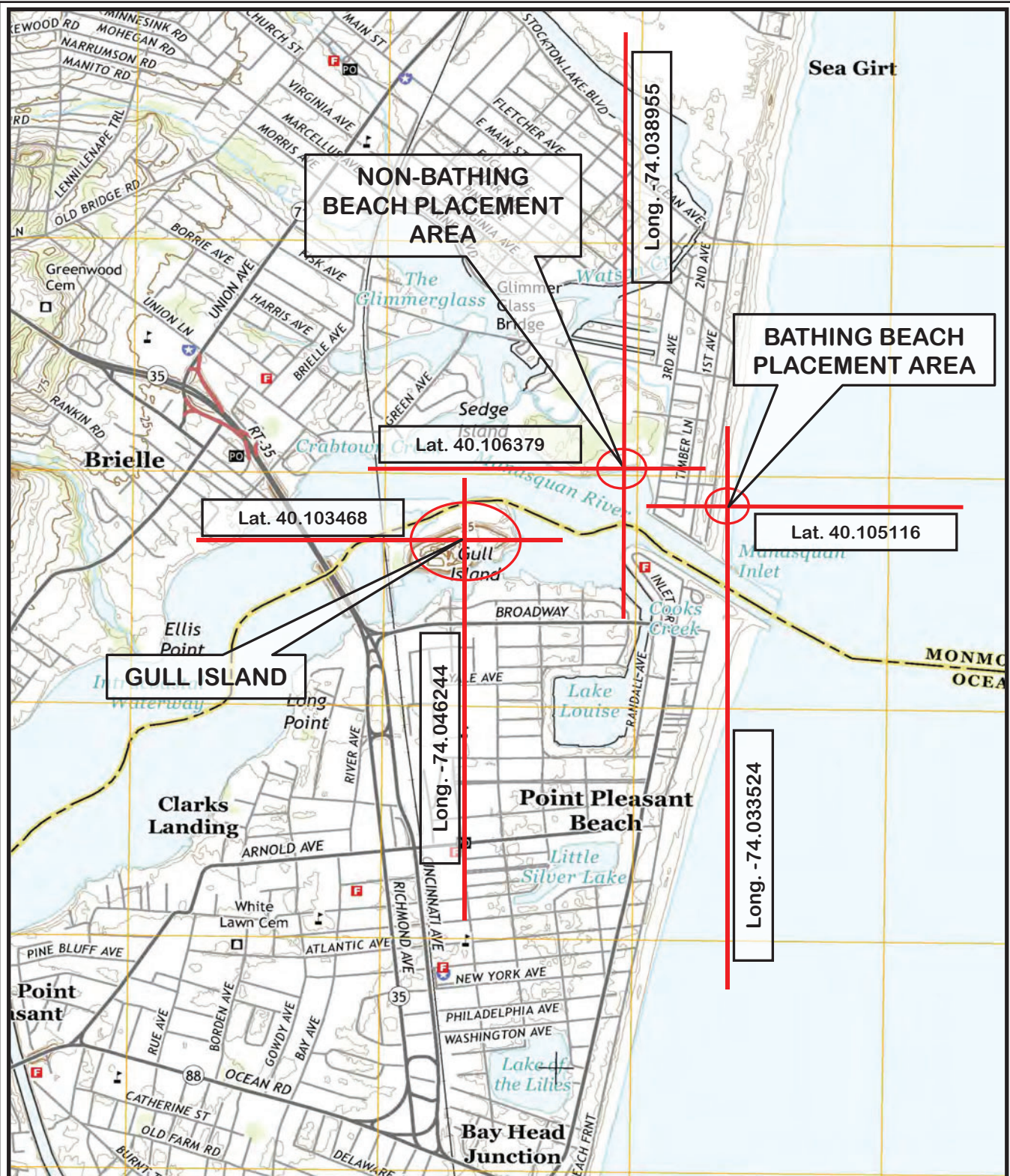




## PROJECT SITE LOCATION MAP

UNITED STATES GEOLOGIC SURVEY QUADRANGLE

POINT PLEASANT, NEW JERSEY

SCALE 1:24000

AUGUST 2022

21-061



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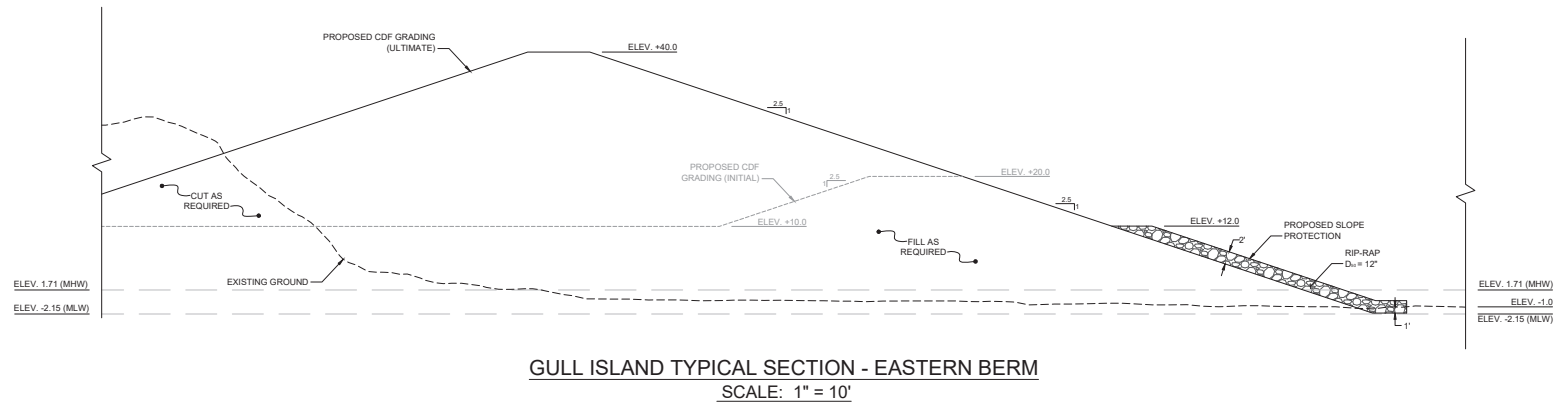


**SECTION 5: AERIAL PHOTOGRAPH**

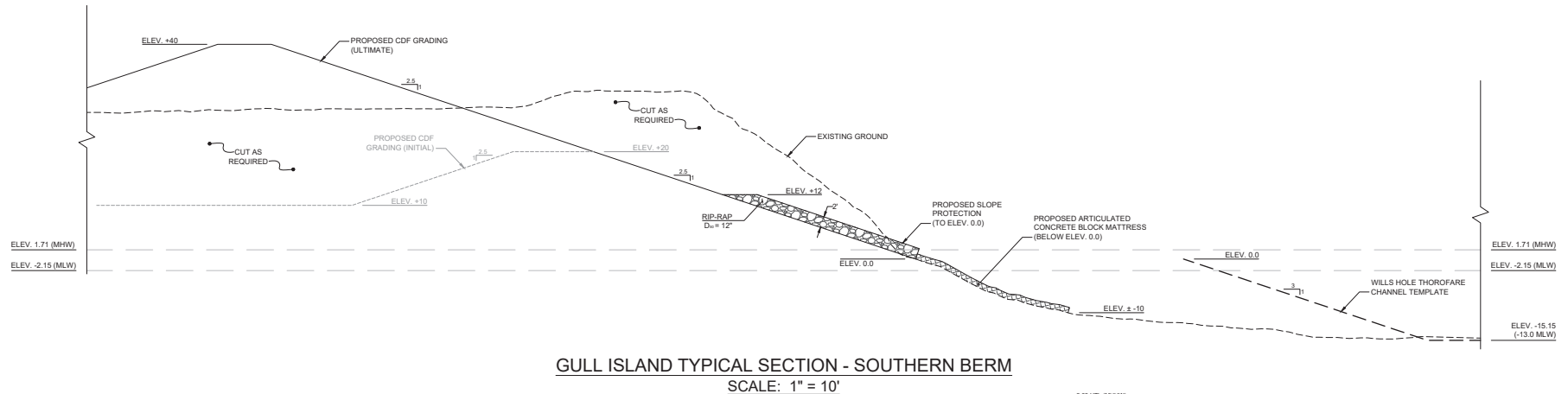
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GULL ISLAND TYPICAL SECTION - EASTERN BERM  
SCALE: 1" = 10'



GULL ISLAND TYPICAL SECTION - SOUTHERN BERM  
SCALE: 1" = 10'

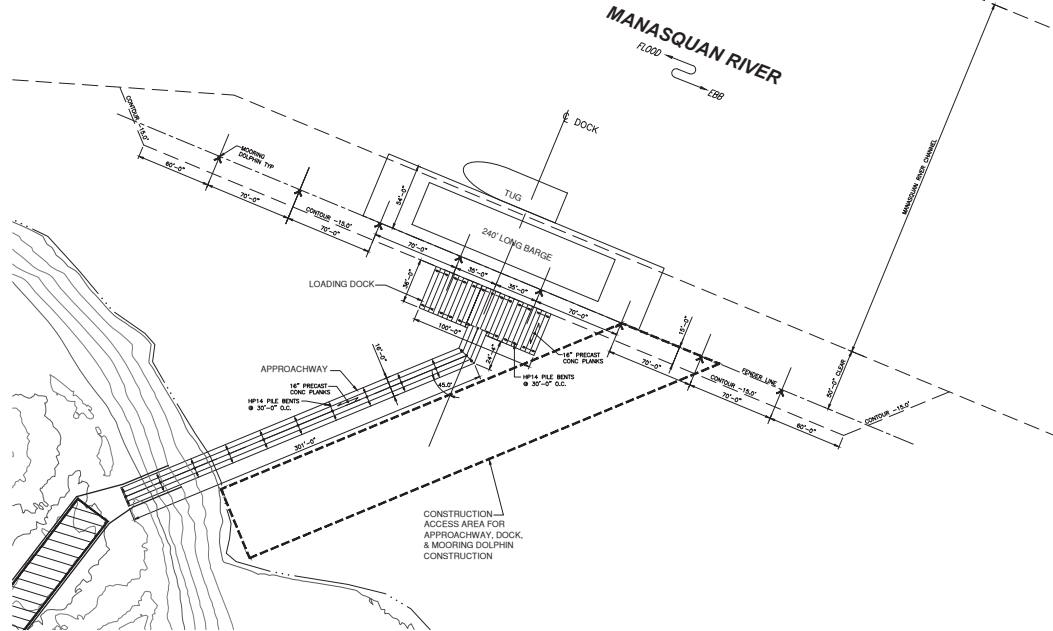
2.03 HTL (MHW)  
1.71 MHW  
0.00 NAVD88  
-0.21 MTL  
-2.15 MLW  
-2.31 MLW  
RANGE OF TIDE (FT)  
NOT TO SCALE

- NOTES:
1. VERTICAL DATUM IS IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). INFORMATION OBTAINED FROM NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (NOAA) DATUM DATUM TRANSFORMATION PROGRAM (VERSION 4.2).
  2. ARMOR STONE DESIGN BASED ON THE METHOD OF MELBY, 2005, ERDC/CHL CHETN-III-71.

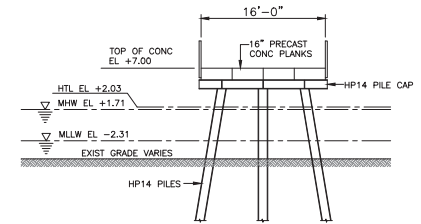
S.T. HUDSON ENGINEERS, INC.  
PROFESSIONAL ENGINEERS & CONSULTANTS  
300 Dudley Avenue  
Cherry Hill, NJ 08002  
Phone 856-342-6600  
Fax No. 856-342-6523

| REV | DATE | DESCRIPTION | BY | APPR |
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|                                                                                                                                                                                                                              |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| STATE OF NEW JERSEY<br>NJDOT OFFICE OF MARITIME RESOURCES                                                                                                                                                                    |               |
| TITLE: TYPICAL PROPOSED CDF SECTIONS                                                                                                                                                                                         |               |
| PROJECT: RECONSTRUCTION OF THE GULL ISLAND DREDGED MATERIAL MANAGEMENT FACILITY<br>BOROUGH OF BRIELLE & MANASQUAN, MONMOUTH COUNTY, NEW JERSEY<br>BOROUGH OF POINT PLEASANT & POINT PLEASANT BEACH, OCEAN COUNTY, NEW JERSEY |               |
| DRAWN BY: SEF                                                                                                                                                                                                                | PROJECT NO.   |
| CHECKED BY: JAM                                                                                                                                                                                                              | SHEET 2 OF 10 |
| SCALE: AS SHOWN                                                                                                                                                                                                              |               |
| DATE: 7-22-2022                                                                                                                                                                                                              |               |

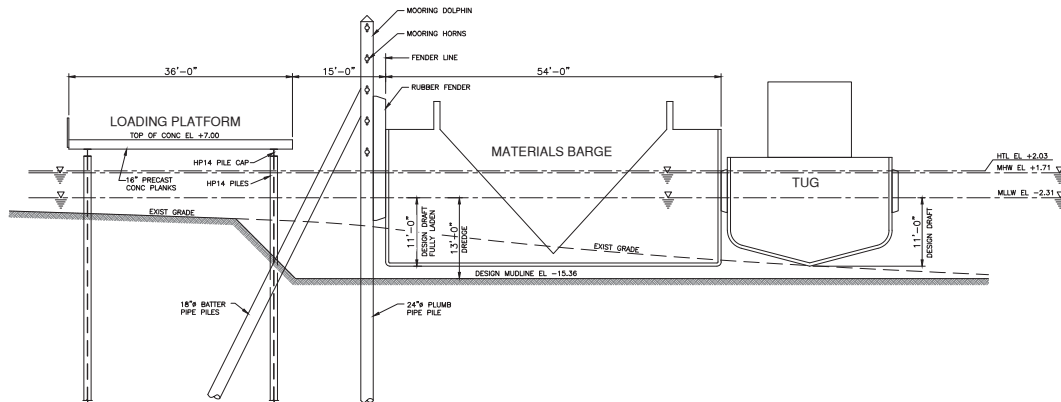


**DOCK PLAN**  
**GULL ISLAND CDF**  
SCALE: 1"=50'



**APPROACHWAY SECTION**  
**GULL ISLAND CDF**  
SCALE: 1/8"=1'-0"

NOTE:  
ALL ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO NAVD88 0.0 VERTICAL DATUM.  
(SEE DATUM CHART BELOW)



**LOADING DOCK SECTION**  
**GULL ISLAND CDF**  
SCALE: 1"=10'

**DATUM CHART**

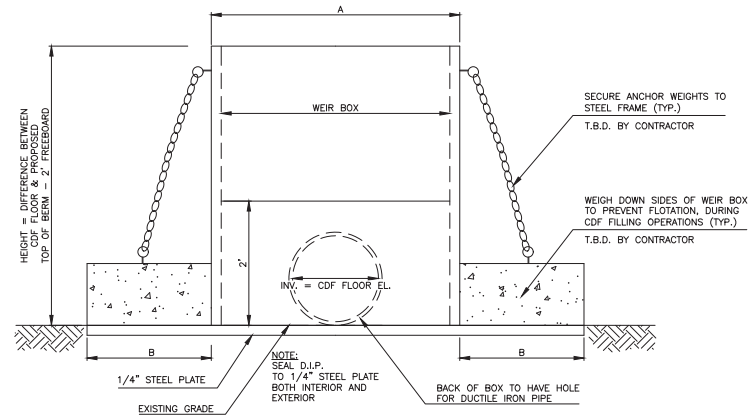
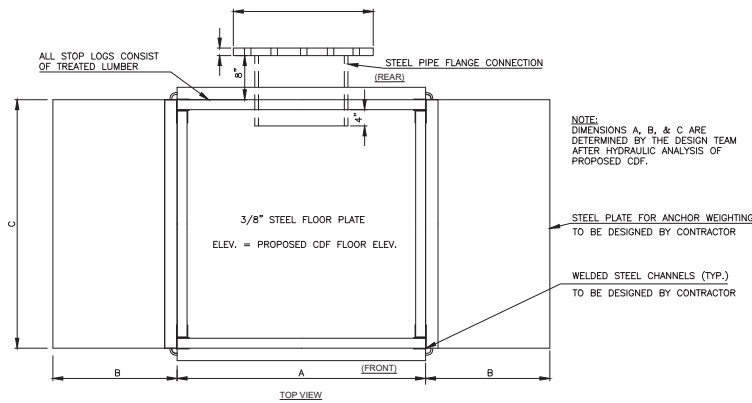
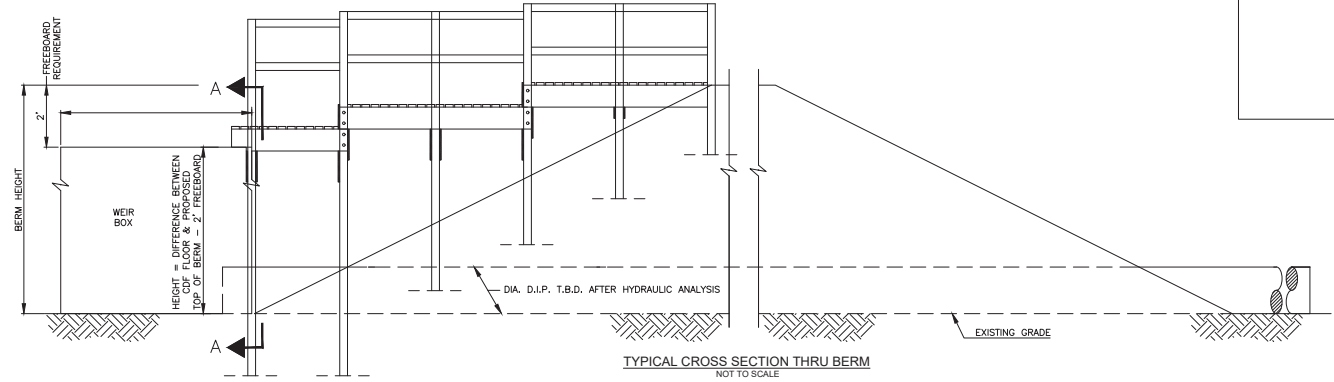
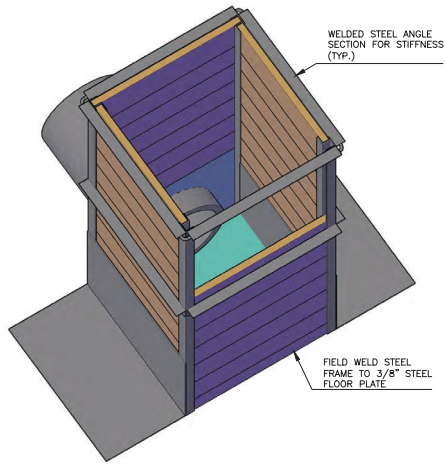
|       |        |
|-------|--------|
| 2.03  | HTL    |
| 1.71  | MHW    |
| 0.00  | NAVD88 |
| -2.15 | MLW    |
| -2.31 | MLLW   |

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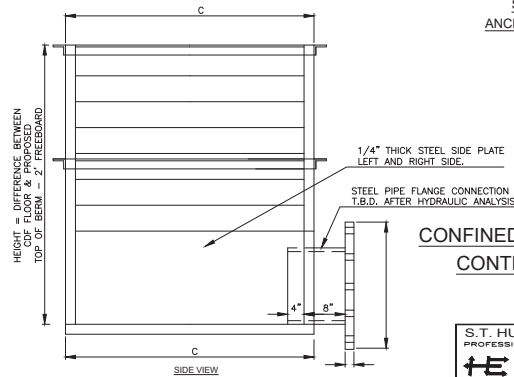
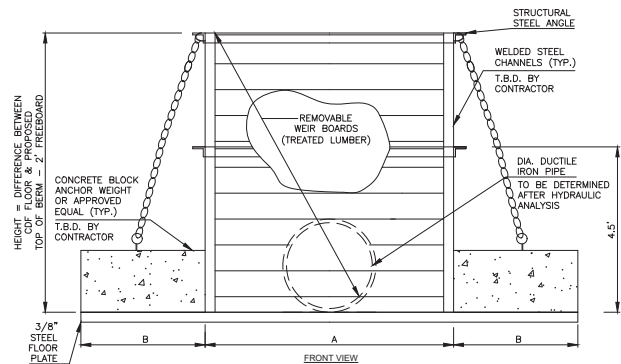
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| STATE OF NEW JERSEY<br>NJDOT OFFICE OF MARITIME RESOURCES                                                                                                                                                                    |               |
| TITLE: PROPOSED DOCK, APPROACHWAY & MOORING DOLPHINS                                                                                                                                                                         |               |
| PROJECT: RECONSTRUCTION OF THE GULL ISLAND DREDGED MATERIAL MANAGEMENT FACILITY<br>BOROUGH OF BRIELLE & MANASQUAN, MONMOUTH COUNTY, NEW JERSEY<br>BOROUGH OF POINT PLEASANT & POINT PLEASANT BEACH, OCEAN COUNTY, NEW JERSEY |               |
| DRAWN BY: STAFF                                                                                                                                                                                                              | PROJECT NO.   |
| CHECKED BY: RC                                                                                                                                                                                                               | SHEET 3 OF 10 |
| SCALE: AS SHOWN                                                                                                                                                                                                              |               |
| DATE: 7-22-2022                                                                                                                                                                                                              |               |

# E-6 NAP-2022-00970-95 28 February 2023



## GENERAL NOTES:

1. THE TOP OF THE WEIR BOX MUST BE AT LEAST 2 FEET BELOW THE TOP OF BERM AND THE OULET MUST BE ABOVE MEAN HIGH WATER (MHW).
2. THE CONFINED DISPOSAL FACILITY CONTROL STRUCTURE (WEIR BOX) SIZE AND DIMENSIONS ARE UNIQUELY DETERMINED FOR EACH PROPOSED CDF DESIGN. A HYDRAULIC ANALYSIS DETERMINES OVERALL DIMENSIONS, I.E. LENGTH, WIDTH, HEIGHT, OUTLET PIPE DIA. ETC. THE HYDRAULIC ANALYSIS AND DIMENSIONS ARE DETERMINED BY THE DESIGNER AND ARE INCLUDED IN THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE WEIR BOX, SIZING OF THE STRUCTURAL STEEL MEMBERS, SIZING OF THE WEIR BOARDS, SIZING, TYPE AND WEIGHT OF THE ANCHOR WEIGHTS, ANCHOR WEIGHT CONNECTIONS, ETC. CONTRACTOR NEEDS TO SUBMIT STRUCTURAL PLANS AND CALCULATIONS, SIGNED AND SEALED BY AN INDEPENDENT NJ PROFESSIONAL ENGINEER FOR STATE APPROVAL.
4. THE STATE DETERMINES THE FREEBOARD REQUIREMENTS AND HAS ULTIMATE APPROVAL OVER THE ENTIRE DESIGN.



## CONFINED DISPOSAL FACILITY CONTROL STRUCTURE NOT TO SCALE

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PROFESSIONAL ENGINEERS & CONSULTANTS  
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Fax No. 856-342-8523

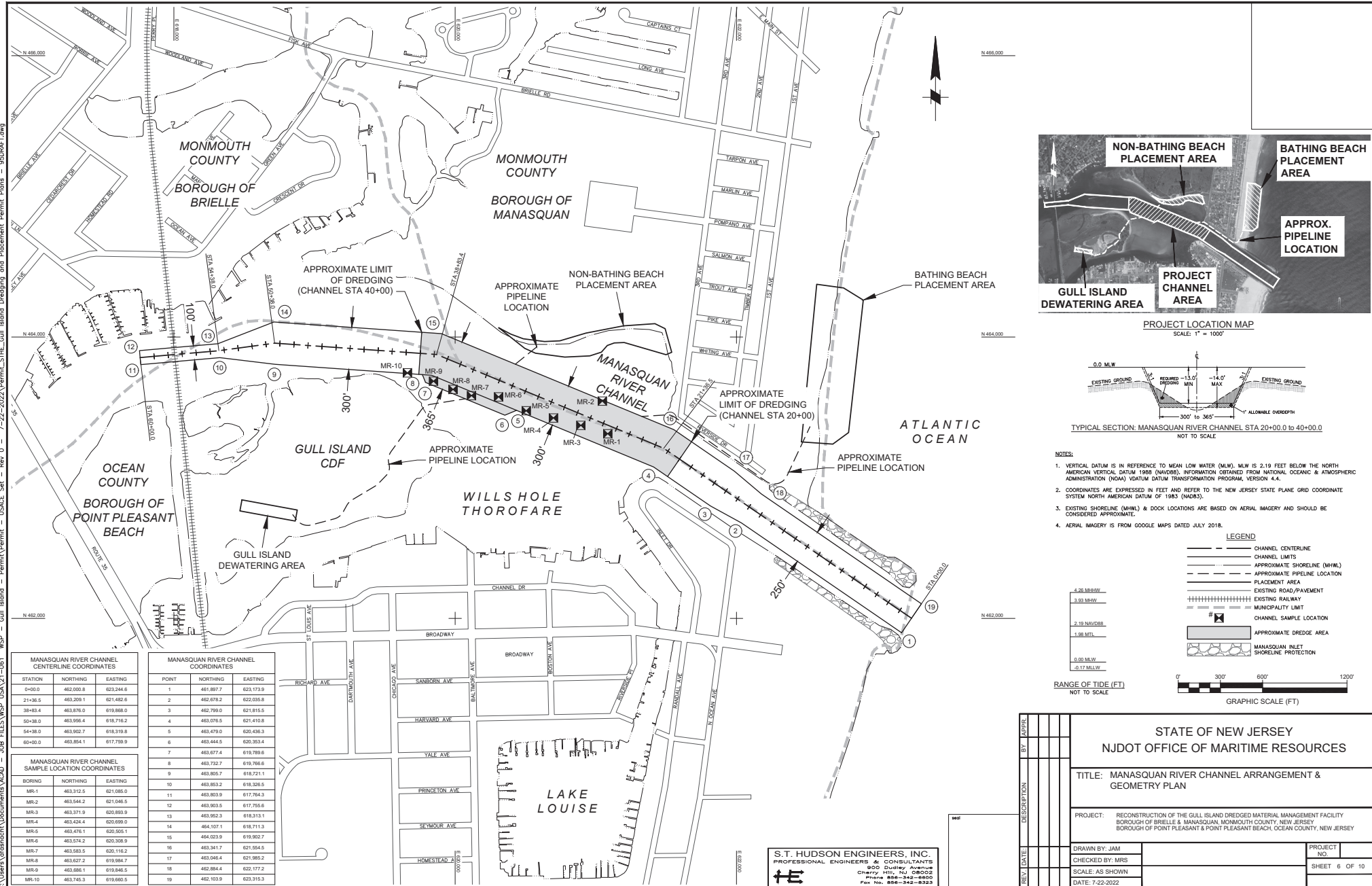
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|                                                                                                                                                                                                                              |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| STATE OF NEW JERSEY<br>NJDOT OFFICE OF MARITIME RESOURCES                                                                                                                                                                    |               |
| TITLE: WEIR BOX DETAILS                                                                                                                                                                                                      |               |
| PROJECT: RECONSTRUCTION OF THE GULL ISLAND DREDGED MATERIAL MANAGEMENT FACILITY<br>BOROUGH OF BRIELLE & MANASQUAN, MONMOUTH COUNTY, NEW JERSEY<br>BOROUGH OF POINT PLEASANT & POINT PLEASANT BEACH, OCEAN COUNTY, NEW JERSEY |               |
| DRAWN BY: STAFF                                                                                                                                                                                                              | PROJECT NO.   |
| CHECKED BY: KC                                                                                                                                                                                                               | SHEET 4 OF 10 |
| SCALE: AS SHOWN                                                                                                                                                                                                              |               |
| DATE: 7-22-2022                                                                                                                                                                                                              |               |

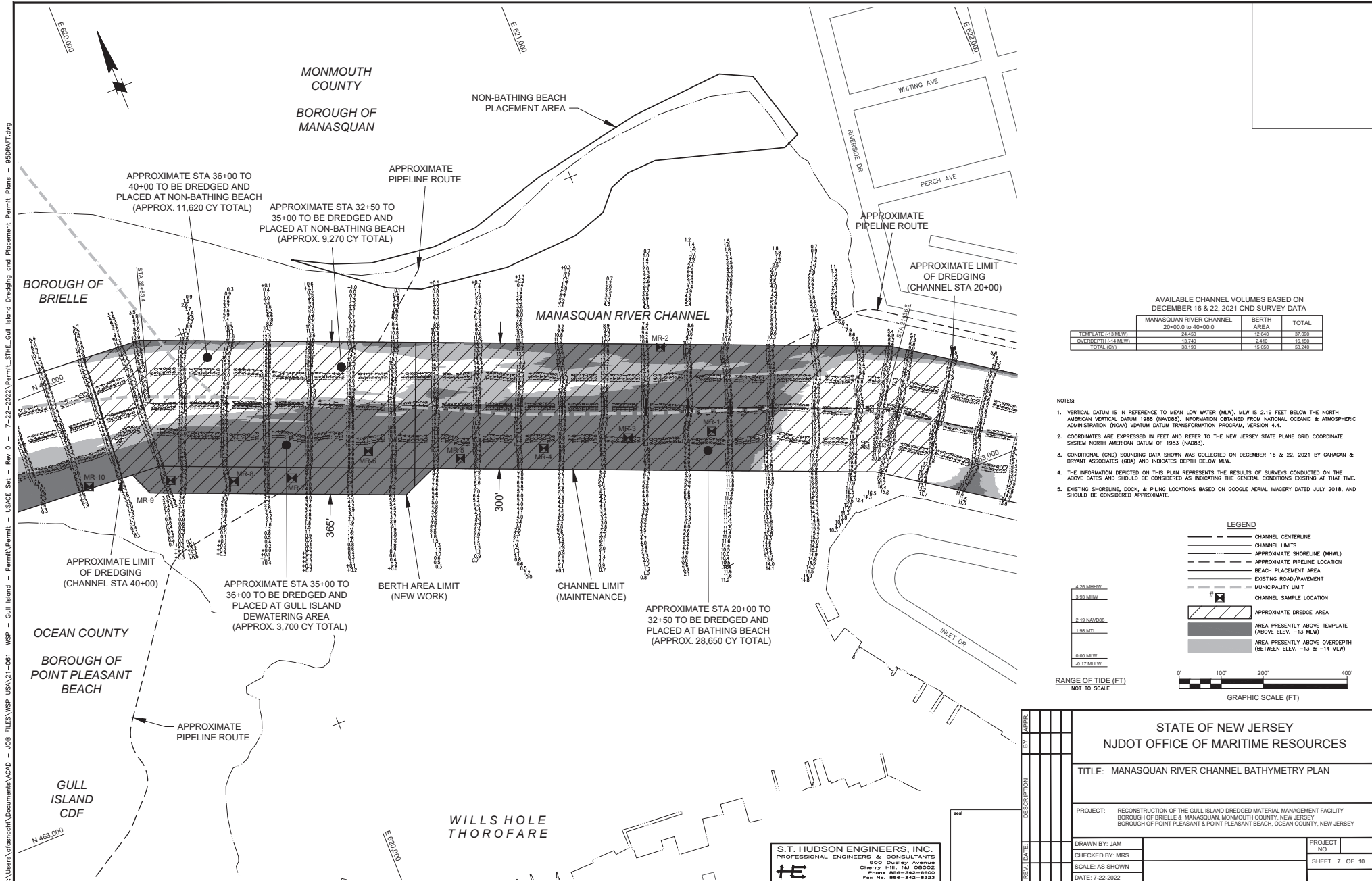
# E-7 NAP-2022-00970-95 28 February 2023



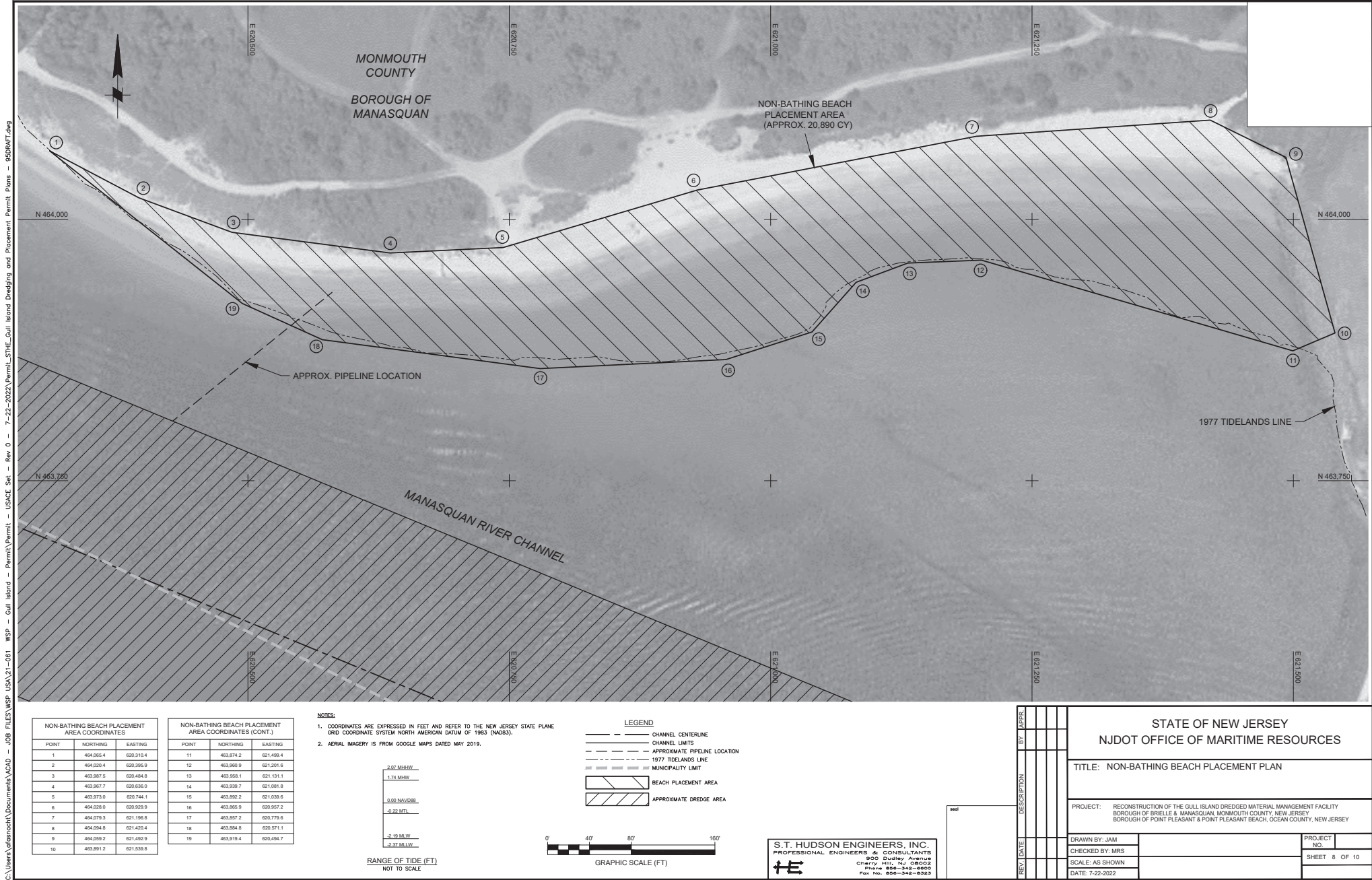
# E-8 NAP-2022-00970-95 28 February 2023



# E-9 NAP-2022-00970-95 28 February 2023



# E-10 NAP-2022-00970-95 28 February 2023



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# E-11 NAP-2022-00970-95 28 February 2023



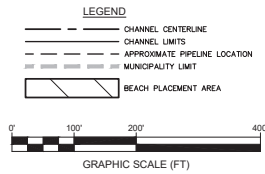
## NOTES:

- COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
- AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY 2019.

| MANASQUAN BEACH PLACEMENT AREA COORDINATES |           |           |
|--------------------------------------------|-----------|-----------|
| POINT                                      | NORTHING  | EASTING   |
| 1                                          | 463,254.2 | 622,461.9 |
| 2                                          | 464,374.7 | 622,570.6 |
| 3                                          | 464,349.0 | 622,761.4 |
| 4                                          | 464,262.2 | 622,901.6 |
| 5                                          | 463,321.0 | 622,797.3 |
| 6                                          | 463,236.7 | 622,684.9 |

2.07 MHW  
1.74 MHW  
0.00 NAVD83  
-0.23 MTL  
-2.19 MLW  
-2.37 MLW

RANGE OF TIDE (FT)  
NOT TO SCALE



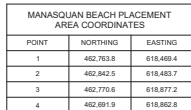
**S.T. HUDSON ENGINEERS, INC.**  
PROFESSIONAL ENGINEERS & CONSULTANTS  
300 Dudley Avenue  
Cherry Hill, NJ 08002  
Phone 856-342-6600  
Fax No. 856-342-6323

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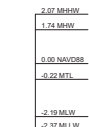
  

|                                                                                                                                                                                                                              |               |
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| STATE OF NEW JERSEY<br>NJDOT OFFICE OF MARITIME RESOURCES                                                                                                                                                                    |               |
| TITLE: BATHING BEACH PLACEMENT PLAN                                                                                                                                                                                          |               |
| PROJECT: RECONSTRUCTION OF THE GULL ISLAND CREDGED MATERIAL MANAGEMENT FACILITY<br>BOROUGH OF BRIELLE & MANASQUAN, MONMOUTH COUNTY, NEW JERSEY<br>BOROUGH OF POINT PLEASANT & POINT PLEASANT BEACH, OCEAN COUNTY, NEW JERSEY |               |
| DRAWN BY: JAM                                                                                                                                                                                                                | PROJECT NO.   |
| CHECKED BY: MRS                                                                                                                                                                                                              | SHEET 9 OF 10 |
| SCALE: AS SHOWN                                                                                                                                                                                                              |               |
| DATE: 7-23-2022                                                                                                                                                                                                              |               |

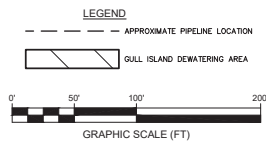
J08 FILES\WSP USA\21-061 WSP - Gull Island - Permit\Permit - USACE Set - Rev 0 - 7-22-2022\Permit\_STHE\_Gull Island Dredging and Placement Permit Plans - 95DRAFT.dwg



- NOTES:**
1. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW JERSEY STATE PLANE GRID COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. AERIAL IMAGERY IS FROM GOOGLE MAPS DATED MAY 2019.



RANGE OF TIDE (FT)  
NOT TO SCALE



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