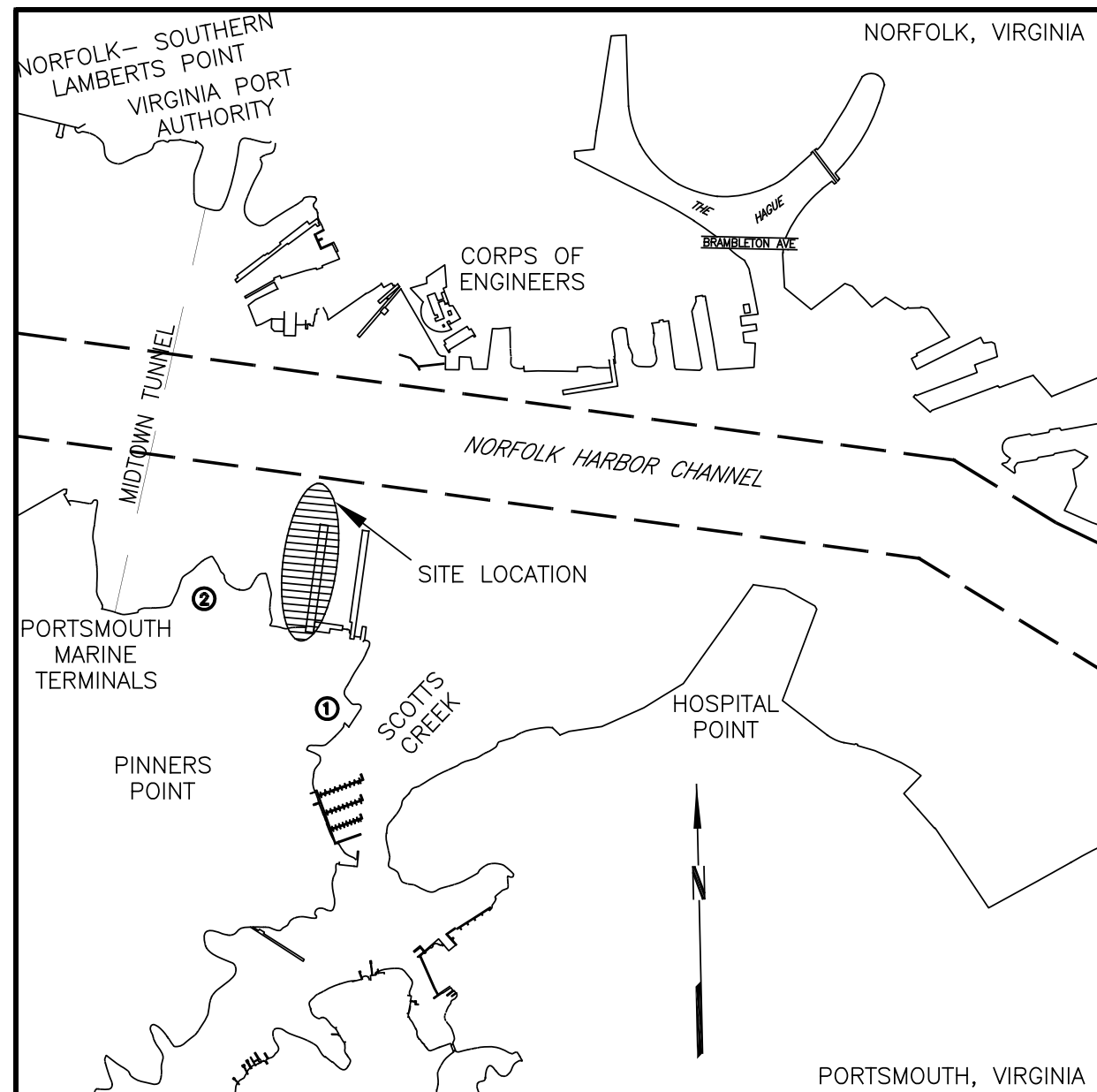




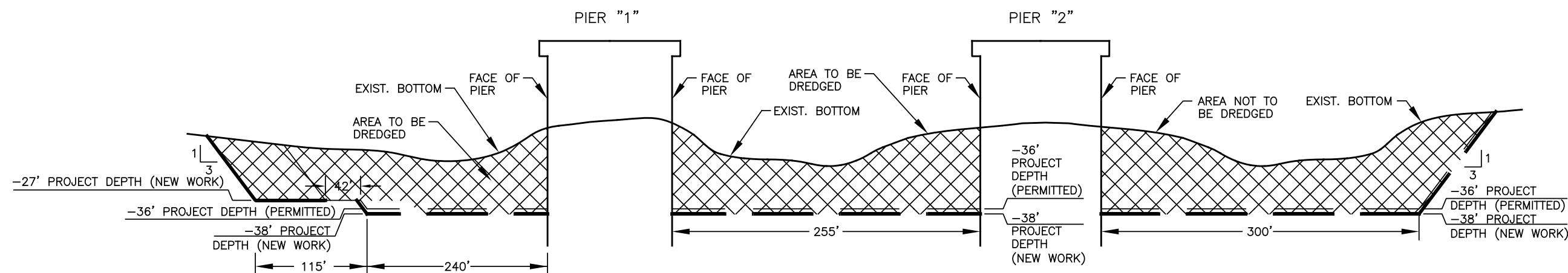
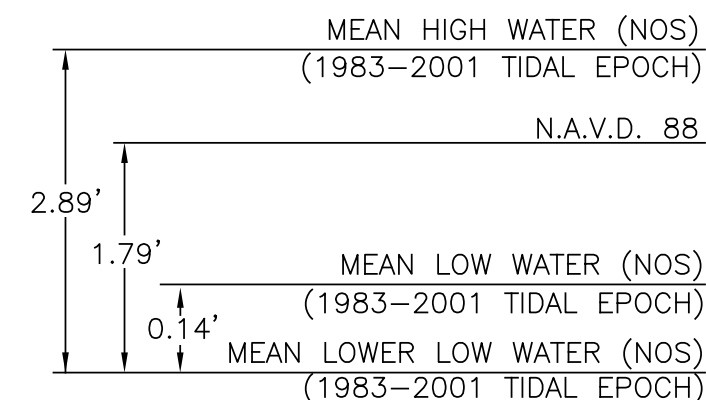
NOTES:

1. SOUNDINGS WERE TAKEN USING A MULTIBEAM SONAR SYSTEM OPERATING AT 208KHZ AND A DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WAS USED TO OBTAIN HORIZONTAL POSITIONS.
2. SOUNDINGS ARE IN FEET REFERRED TO MEAN LOW WATER (MLW). DETERMINED BY THE NATIONAL OCEAN SERVICE (NOS) AND WERE TAKEN ON FEBRUARY 2014 & AUGUST 2024.
3. COORDINATES ARE IN U.S. SURVEY FEET REFERRED TO THE VIRGINIA STATE GRID (SOUTH ZONE) BASED ON NAD83.
4. BENCHMARK IS BRASS DISK CE "D-1, 1942 LOCATED AT U.S. ARMY CORPS OF ENGINEERS FACILITY (FORT NORFOLK). ELEVATION = 9.27' ABOVE NOS MLLW. TIDAL EPOCH 1983-2001.
5.  NEW WORK DREDGING

ADJACENT PROPERTY OWNERS:

- ① CROFTON DIVING CORP.
- ② VIRGINIA PORT AUTHORITY

DIAGRAM OF DATUM PLANE



TYPICAL CROSS SECTION

NASSCO NORFOLK (HARPER FACILITY)

NORFOLK, VIRGINIA
JOINT PERMIT APPLICATION
NEW WORK DREDGING
ELIZABETH RIVER

NOT FOR CONSTRUCTION

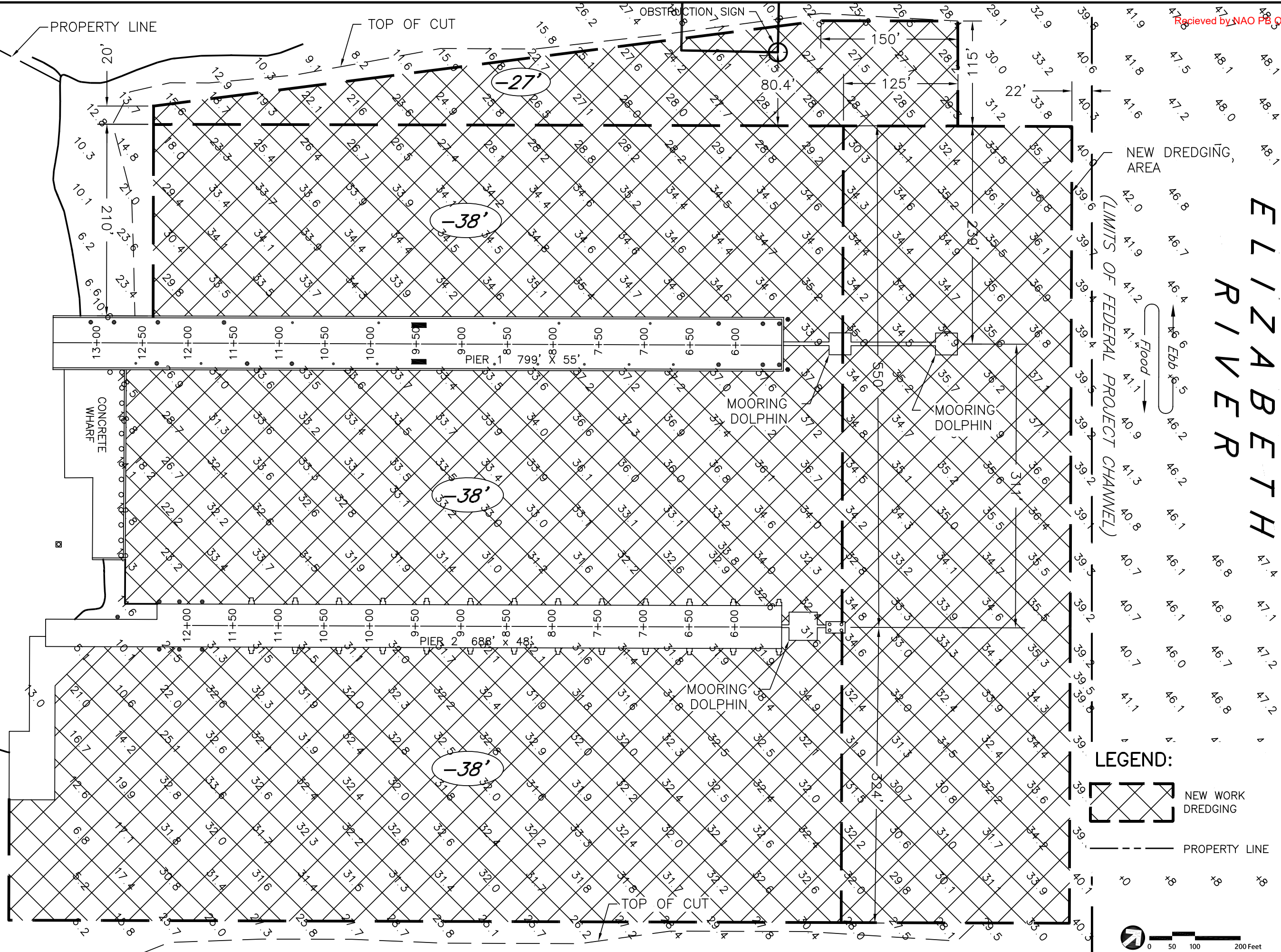
SURVEYED W.S.&E.	DESIGNED N/A
DRAWN K.T.	REVIEWED R.S.F.
SCALE 1"=100'	DATE 7/31/21
DRAWING NO. 36633.04	

JPA-01

SHEET 1 OF 4

FILE NAME: \\nasco\proj\NA\36633\04_NASSCO Norfolk Harp... JPA-02-22-03_04.dwg (2/23/2025) PLOTTED: Thursday, July 31, 2025 - 4:08pm

NASSCO NORFOLK (FORMERLY EARL INDUSTRIES, LLC)



Received by NAO PB Oct 16, 2025

DATE	DESCRIPTION OF REVISION	BY



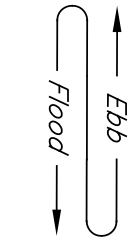
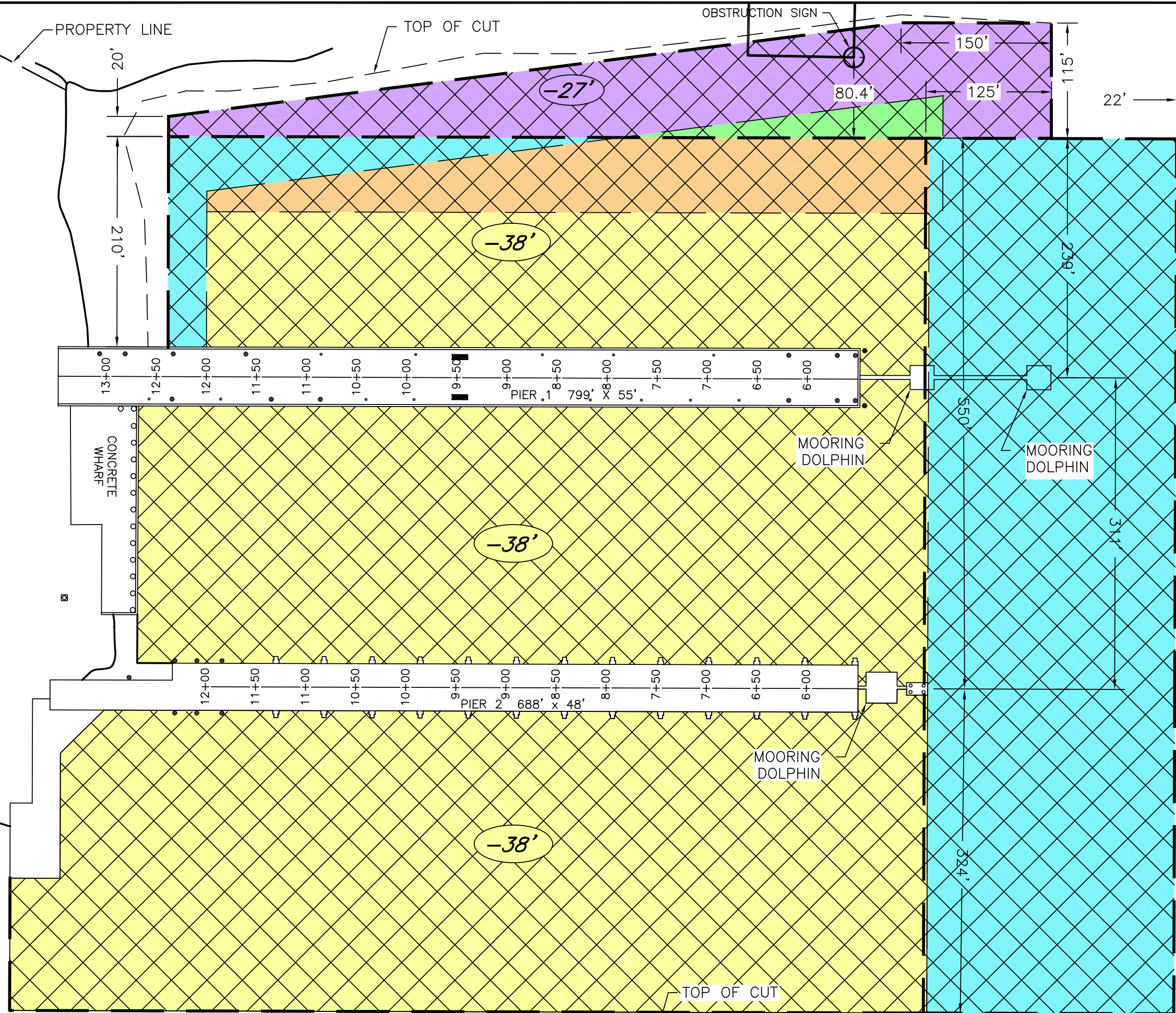
NASSCO NORFOLK (HARPER FACILITY)
NORFOLK, VIRGINIA
JOINT PERMIT APPLICATION
NEW WORK DREDGING
ELIZABETH RIVER

NOT FOR CONSTRUCTION

SURVEYED W.S.&E.	DESIGNED N/A
DRAWN K.T.	REVIEWED R.S.F.
SCALE 1"=100'	DATE 7/31/25
DRAWING NO. 36633.04	
JPA-02	
SHEET 2 OF 4	

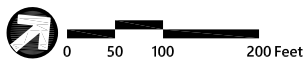
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NASSCO NORFOLK (FORMERLY EARL INDUSTRIES, LLC)



LEGEND:

- NEW WORK -36' TO -38'
- NEW WORK UNPERMITTED TO -38'
- MAINTENANCE TO -27'
- NEW WORK -27' TO -38'
- NEW WORK UNPERMITTED TO -27'
- PREVIOUS DREDGING TOE
- PROPERTY LINE



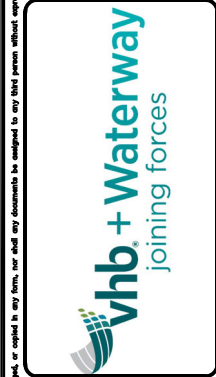
NEW DREDGING AREA

(LIMITS OF FEDERAL PROJECT CHANNEL)

ELIZABETH RIVER

Recieved by NAO PB Oct 16, 2025

DATE	DESCRIPTION OF REVISION	BY



NASSCO NORFOLK (HARPER FACILITY)

NORFOLK, VIRGINIA

JOINT PERMIT APPLICATION

NEW WORK DREDGING

ELIZABETH RIVER

NOT FOR CONSTRUCTION

SURVEYED W.S.&E.	DESIGNED N/A
DRAWN K.T.	REVIEWED R.S.F.
SCALE 1"=100'	DATE 7/31/25
DRAWING NO. 36633.04	
JPA-03	
SHEET 3 OF 4	



Midway Survey & Engineering, 10000 Midway Avenue, Suite 100, Houston, Texas 77060 Tel: 281-291-1100 Fax: 281-291-1101 Email: info@midwaysurvey.com Website: www.midwaysurvey.com	SURVEYED W.S.&E.	DESIGNED N/A
	DRAWN K.T.	REVIEWED R.S.F.
	SCALE 1"=100'	DATE 7/31/25
	DRAWING NO. 36633.04	
	JPA-04 SHEET 4 OF 4	

