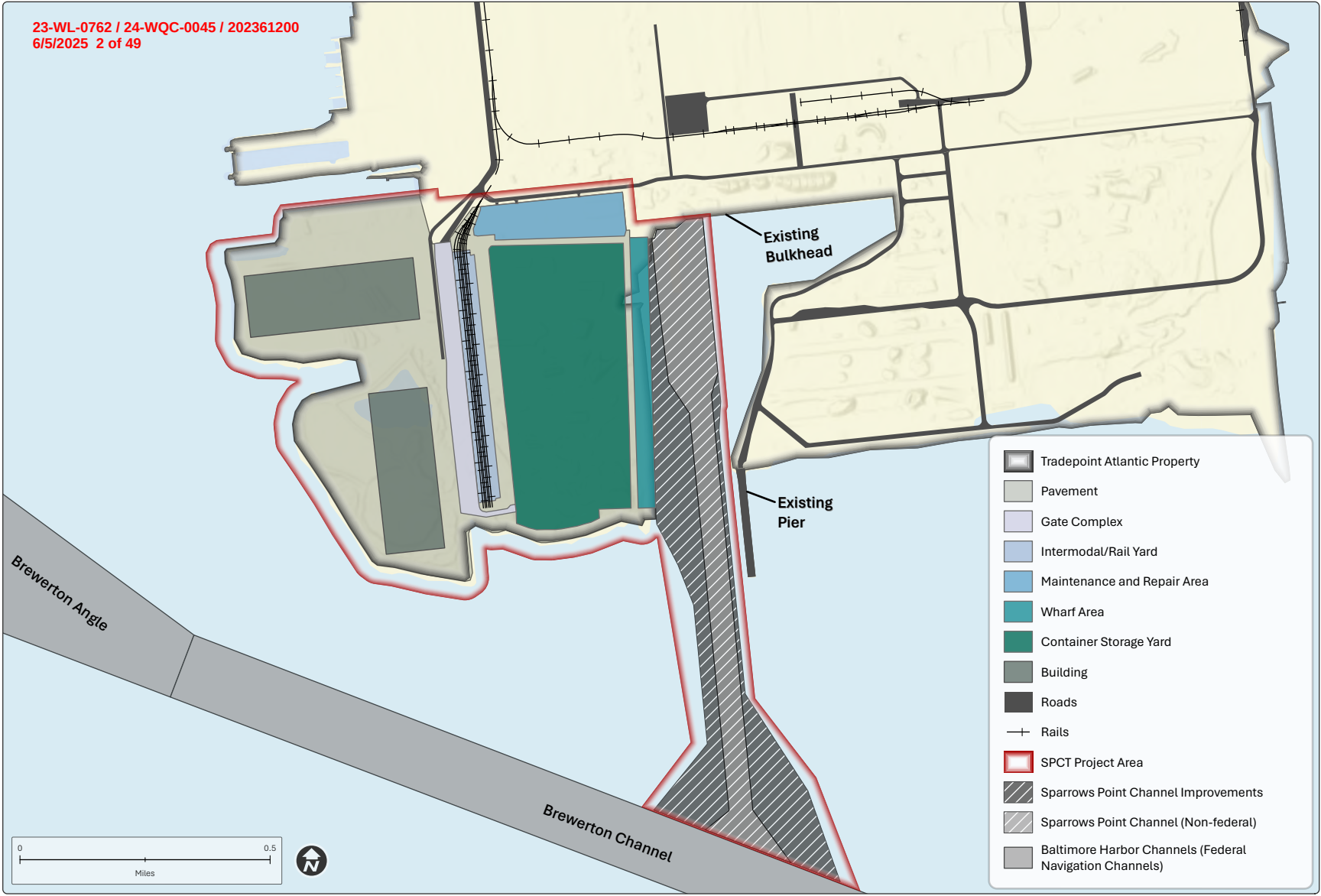
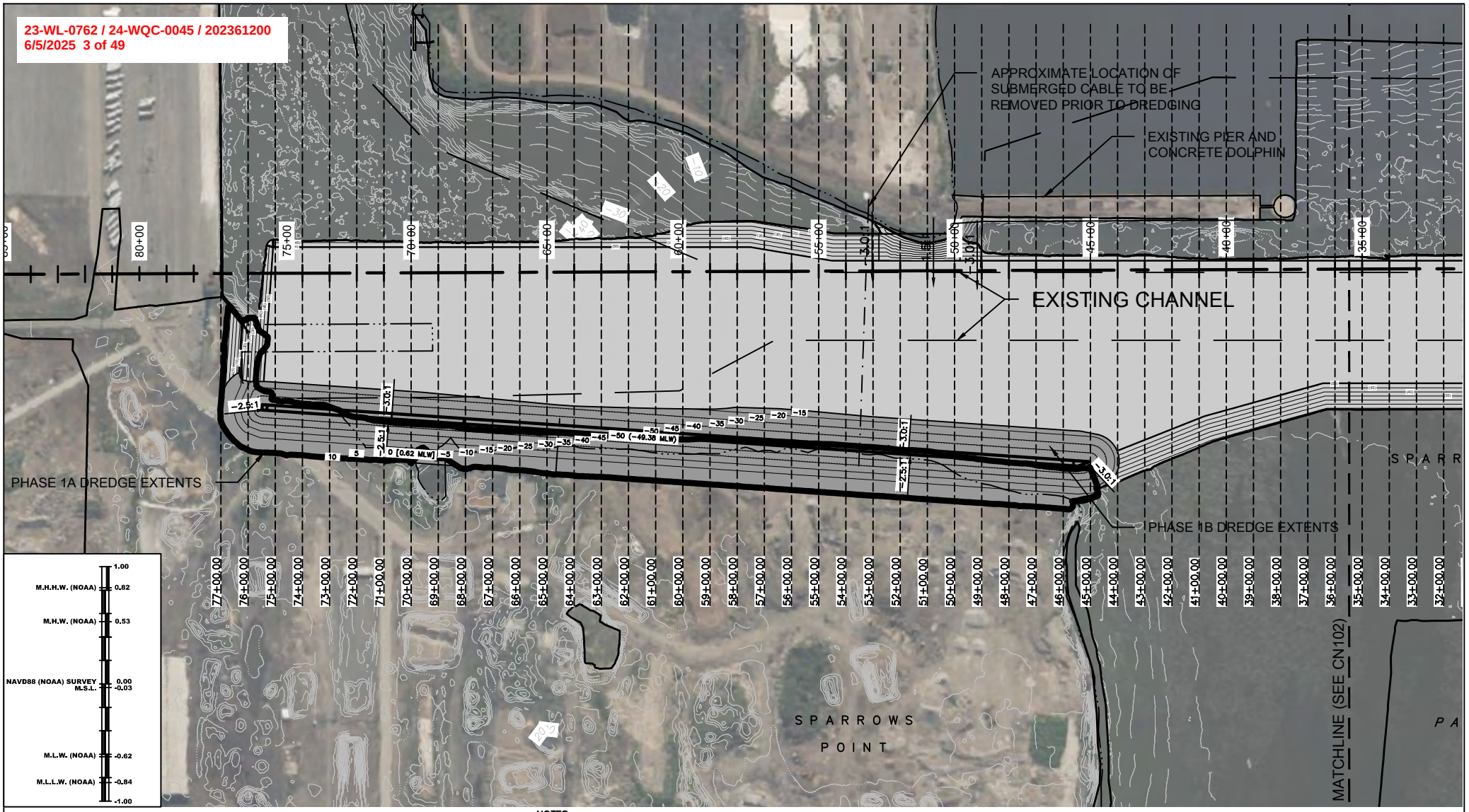

Tradepoint Atlantic Property
Sparrows Point Channel
Baltimore Harbor Channels
157
695
Sparrows Point Country Club
Rocky Point Golf Course
Back River
Peach Orchard Park
158
Bear Creek
Tradepoint Atlantic Property
North Point State Park
Fort McHenry Channel
Coke Point
Old Road Bay
Baltimore City
Baltimore County
Brewerton Angle
Patapsco River
Brewerton Channel
Project Location
0
1
Miles


Existing Bulkhead
Existing Pier
Brewerton Angle
Brewerton Channel
Tradepoint Atlantic Property
Pavement
Gate Complex
Intermodal/Rail Yard
Maintenance and Repair Area
Wharf Area
Container Storage Yard
Building
Roads
Rails
SPCT Project Area
Sparrows Point Channel Improvements
Sparrows Point Channel (Non-federal)
Baltimore Harbor Channels (Federal Navigation Channels)
0
0.5
Miles
N



LEGEND:

- PHASE 1A EXCAVATION AREA, AREA TO BE DUG FROM LAND TO −30 NAVD88 (−29.38 MLW) DEPTH, WITH SIDE SLOPES AS SHOWN
- PHASE 1B DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW) DEPTH WITH SIDE SLOPES AS SHOWN FOLLOWING COMPLETION OF PHASE 1A
- PHASE 2 DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW), DEPTH WITH SIDE SLOPES AS SHOWN.
- —(40)— DESIGN DEPTH CONTOURS NAVD88 (MLW IN PARENTHESES)
- —(34)— EXISTING DEPTH CONTOURS NAVD88 (MLW IN PARENTHESES)

NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.
2. STATION NUMBERS MEASURED FROM START POINT AT BASELINE WORKING POINT BWP−01. SECTIONS SHOWING THE DREDGE AREA FROM STATION 6+00 TO 76+00 ARE SHOWN ON DRAWINGS CN301 TO CN314.
3. THE DREDGE AREA CONSISTS OF THREE PHASES WITH THE PHASE 1A AREA TO BE CONDUCTED FIRST. AREAS TO BE DUG FROM LAND ARE DESIGNATED AS PHASE 1A AND IS TO BE CONDUCTED BEFORE WATER BASED DREDGING OF PHASE 1B. CONSTRUCTION OF PILES AND THE WHARF WILL COMMENCE FOLLOWING THE COMPLETION OF PHASE 1A. PHASE 2 WILL BE CONDUCTED FOLLOWING PHASE 1B TO COMPLETE DREDGING OF THE REMAINDER OF THE PROPOSED CHANNEL.

0 250 500 750 1000
1"=500'-0" SCALE IN FEET

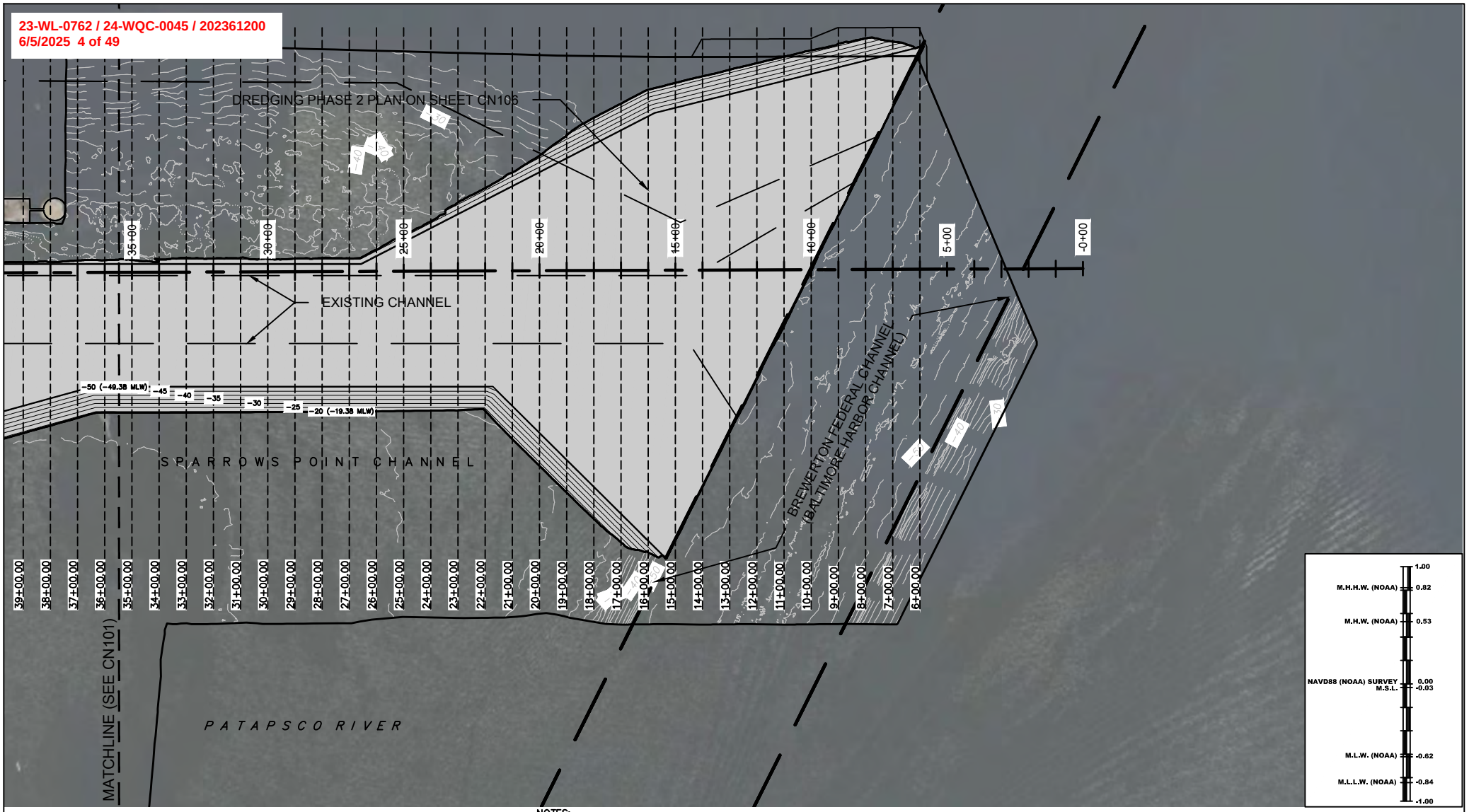
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING GENERAL ARRANGEMENT (SHEET 1 OF 2)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN101

SHEET SIZE: A



LEGEND:

- PHASE 1A EXCAVATION AREA, AREA TO BE DUG FROM LAND TO −30 NAVD88 (−29.38 MLW) DEPTH, WITH SIDE SLOPES AS SHOWN
- PHASE 1B DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW) DEPTH WITH SIDE SLOPES AS SHOWN FOLLOWING COMPLETION OF PHASE 1A
- PHASE 2 DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW), DEPTH WITH SIDE SLOPES AS SHOWN.
- —(40)— DESIGN DEPTH CONTOURS NAVD88 (MLW IN PARENTHESES)
- —(34)— EXISTING DEPTH CONTOURS NAVD88 (MLW IN PARENTHESES)

NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.
2. STATION NUMBERS MEASURED FROM START POINT AT BASELINE WORKING POINT BWP−01. SECTIONS SHOWING THE DREDGE AREA FROM STATION 6+00 TO 76+00 ARE SHOWN ON DRAWINGS CN301 TO CN314.
3. THE DREDGE AREA CONSISTS OF THREE PHASES WITH THE PHASE 1A AREA TO BE CONDUCTED FIRST. AREAS TO BE DUG FROM LAND ARE DESIGNATED AS PHASE 1A AND IS TO BE CONDUCTED BEFORE WATER BASED DREDGING OF PHASE 1B. CONSTRUCTION OF PILES AND THE WHARF WILL COMMENCE FOLLOWING THE COMPLETION OF PHASE 1A. PHASE 2 WILL BE CONDUCTED FOLLOWING PHASE 1B TO COMPLETE DREDGING OF THE REMAINDER OF THE PROPOSED CHANNEL.

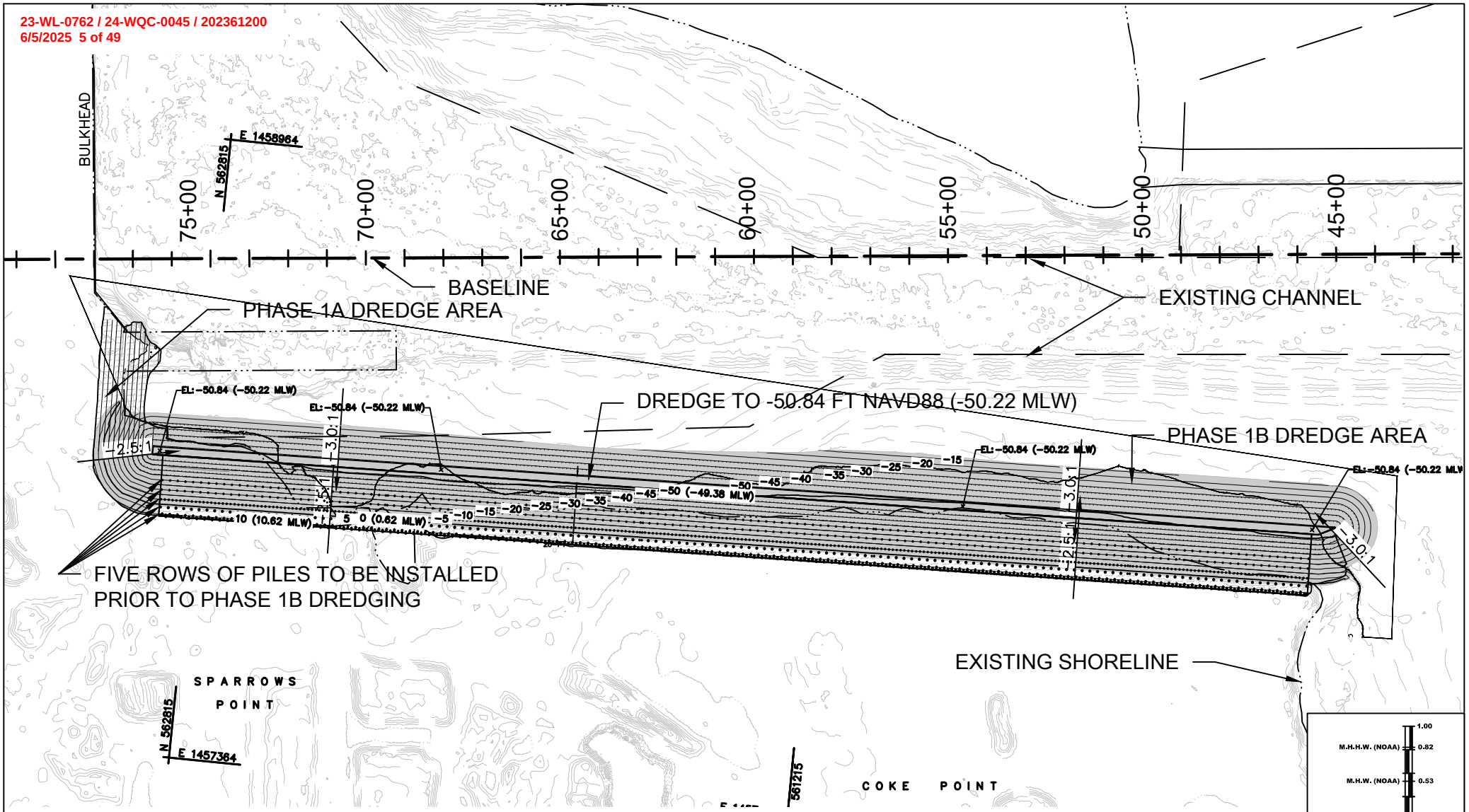
0 250 500 750 1000
1"=500'-0" SCALE IN FEET

HATCH LANGAN SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING GENERAL ARRANGEMENT (SHEET 2 OF 2)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN102

SHEET SIZE: A

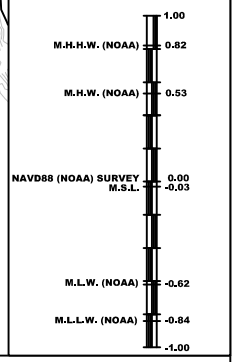


LEGEND:

- PHASE 1A EXCAVATION AREA, AREA TO BE DUG FROM LAND TO -30 NAVD88 (-29.38 MLW) DEPTH, WITH SIDE SLOPES AS SHOWN
- PHASE 1B DREDGING AREA, AREA TO BE DREDGED TO -50.84 NAVD88 (-50.22 MLW) DEPTH WITH SIDE SLOPES AS SHOWN FOLLOWING COMPLETION OF PHASE 1A
- (40) DESIGN DEPTH CONTOURS NAVD88
- (34) EXISTING DEPTH CONTOURS NAVD88

NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.
2. PHASE 1 WILL BE CONDUCTED IN TWO SECTIONS, WITH AREAS TO BE DUG FROM LAND DESIGNATED AS PHASE 1A AND IS TO BE CONDUCTED BEFORE WATER BASED DREDGING OF PHASE 1B. CONSTRUCTION OF PILES AND THE WHARF WILL COMMENCE FOLLOWING THE COMPLETION OF PHASE 1A. PHASE 2 WILL BE CONDUCTED FOLLOWING PHASE 1B TO COMPLETE DREDGING OF THE REMAINDER OF THE PROPOSED CHANNEL.
3. THE FIVE WESTERNMOST ROWS OF PILES ARE TO BE INSTALLED FOLLOWING PHASE 1A AND BEFORE THE START OF PHASE 1B DREDGING.

0 175 350 525 700
1"=350'-0" SCALE IN FEET



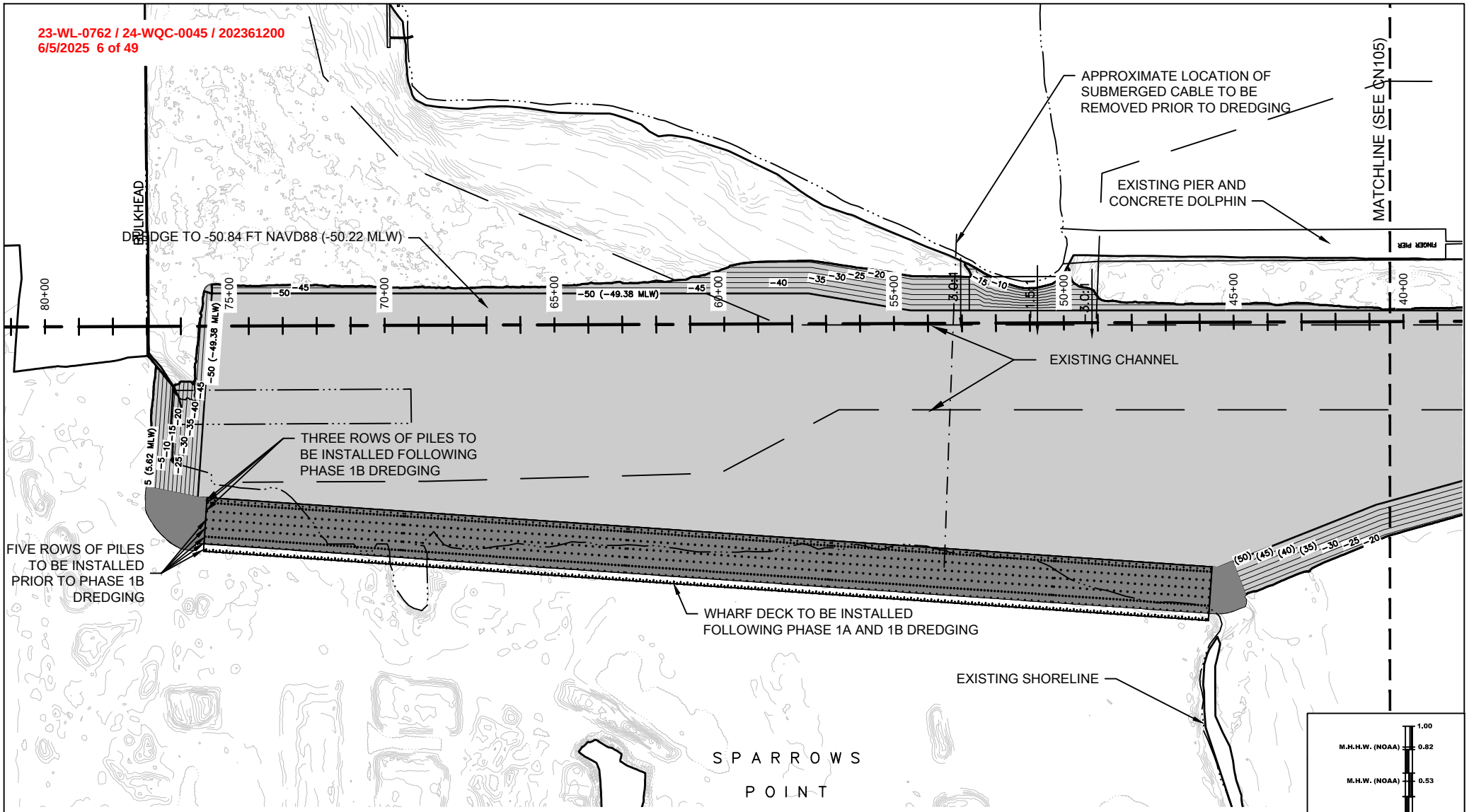
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING PHASE 1

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN103

SHEET SIZE: A



LEGEND:

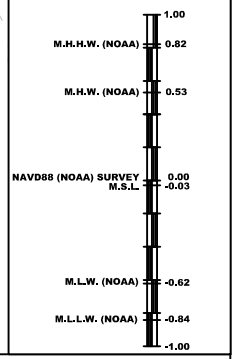
- PHASE 1 DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW), DEPTH WITH SIDE SLOPES AS SHOWN.
- PHASE 2 DREDGING AREA, AREA TO BE DREDGED TO −50.84 NAVD88 (−50.22 MLW), DEPTH WITH SIDE SLOPES AS SHOWN.
- —(40)— DESIGN DEPTH CONTOURS NAVD88
- —(34)— EXISTING DEPTH CONTOURS NAVD88

NOTES:

1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.
2. THE FIVE WESTERNMOST ROWS OF PILES ALONG WHARF TO BE INSTALLED FOLLOWING PHASE 1A DREDGING AND PRIOR TO PHASE 1B DREDGING.
3. PHASE 1 DREDGE AREA CONSISTS OF PHASE 1A AND PHASE 1B AS INDICATED ON SHEET CN103.

0 200 400 600 800

1"=400'-0" SCALE IN FEET



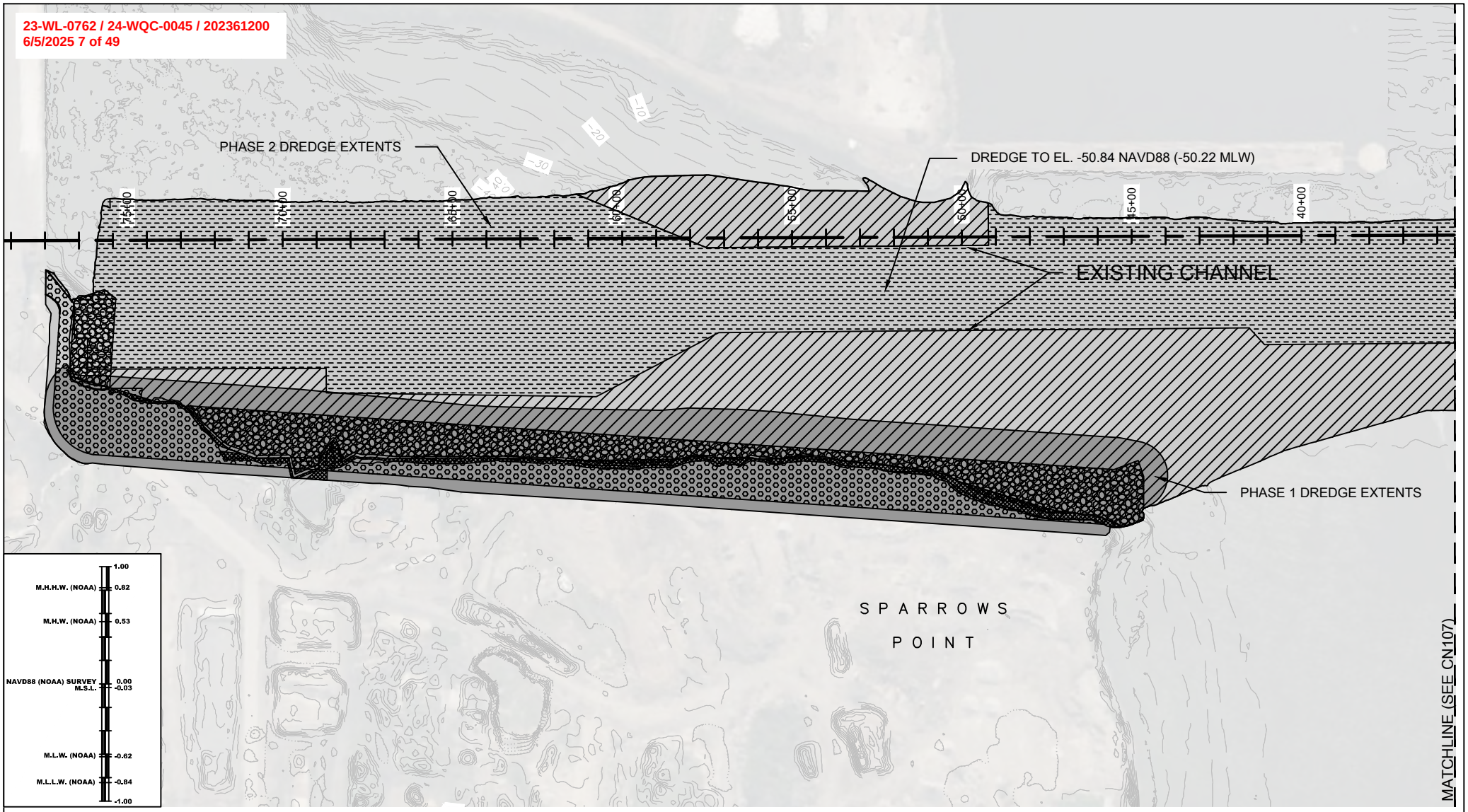
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING PHASE 2 (SHEET 1 OF 2)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN104

SHEET SIZE: A



LEGEND:
- PHASE 1 DREDGING AREA
- PHASE 2 DREDGING AREA
- AREA PREVIOUSLY DREDGED AS MAINTENANCE DREDGING
- (34) EXISTING DEPTH CONTOURS NAVD88

IMPACTS:
- DREDGING AREAS NOT PREVIOUSLY DREDGED AS MAINTENANCE DREDGING
- DREDGING AREA BETWEEN 0.0' AND 3.0' MLW
- REVETMENT STONE PLACED GREATER THAN 10' CHANNELWARD OF THE EXISTING MHWL
- OPEN WATER CREATED THROUGH EXCAVATION

0 200 400 600 800
1"=400'-0" SCALE IN FEET

NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

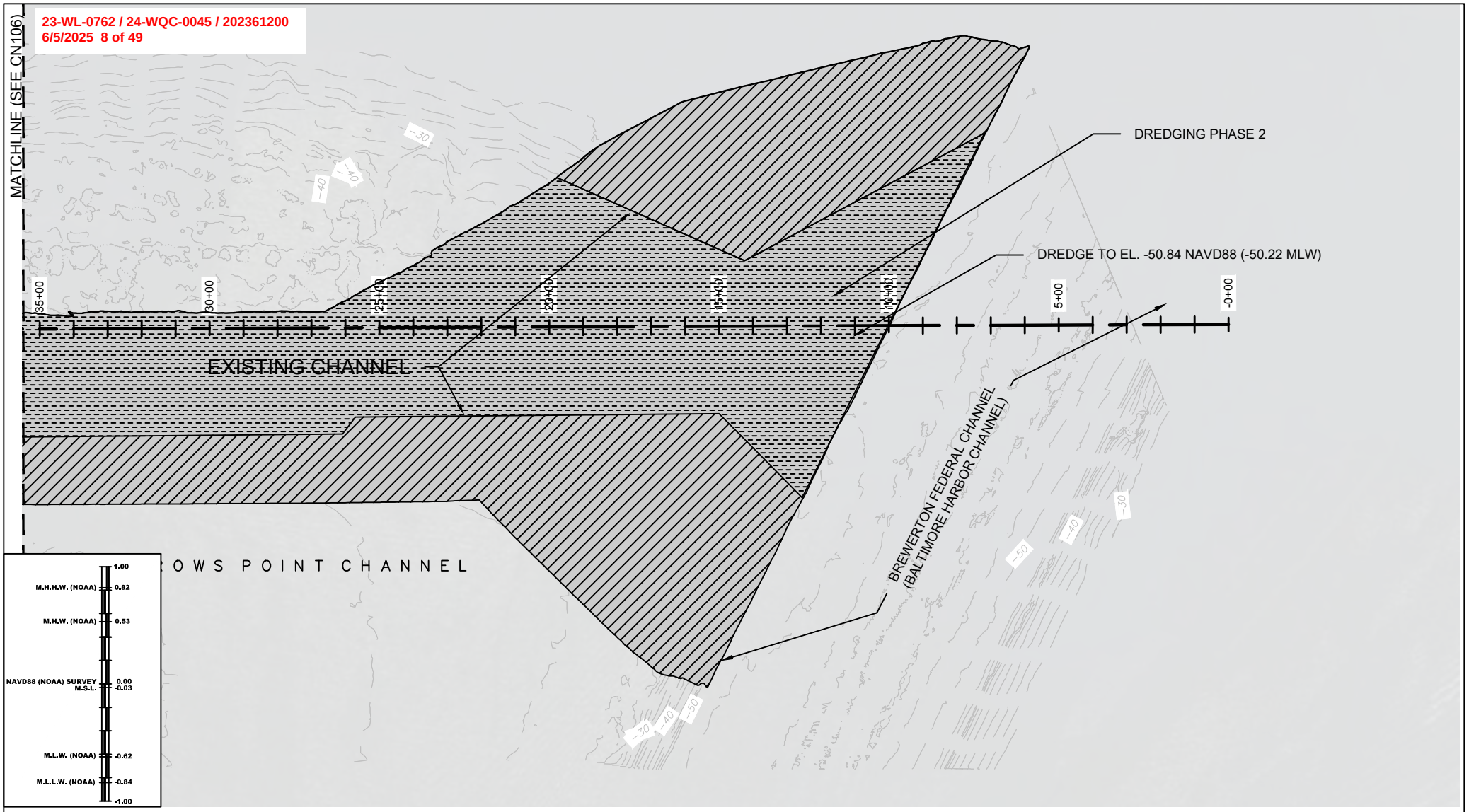
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING IMPACTS (SHEET 1 OF 2)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN106

SHEET SIZE: A



LEGEND:
- PHASE 1 DREDGING AREA
- PHASE 2 DREDGING AREA
- AREA PREVIOUSLY DREDGED AS MAINTENANCE DREDGING
- (34) EXISTING DEPTH CONTOURS NAVD88

IMPACTS:
- DREDGING AREAS NOT PREVIOUSLY DREDGED AS MAINTENANCE DREDGING

0 200 400 600 800
1"=400'-0" SCALE IN FEET

NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

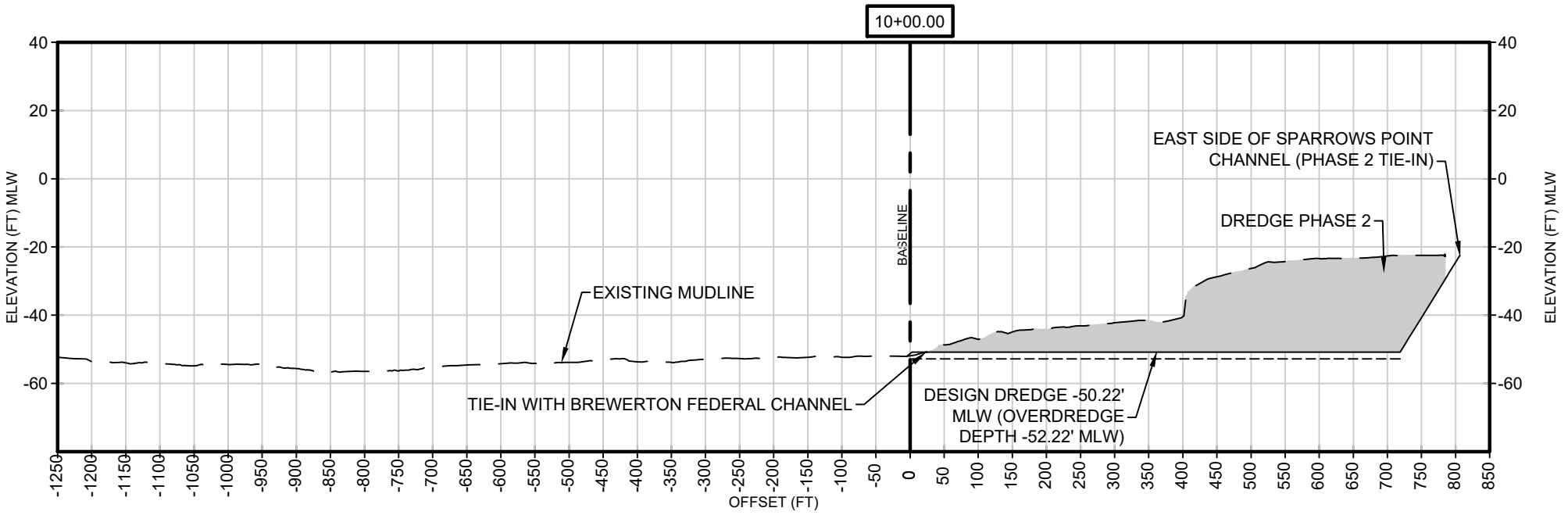
HATCH LANGAN SPARROWS POINT CONTAINER TERMINAL

SPARROWS POINT CONTAINER TERMINAL

PLAN - DREDGING IMPACTS (SHEET 2 OF 2)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN107

SHEET SIZE: A



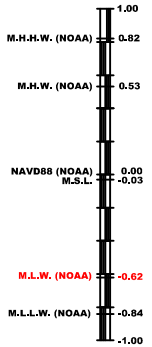
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

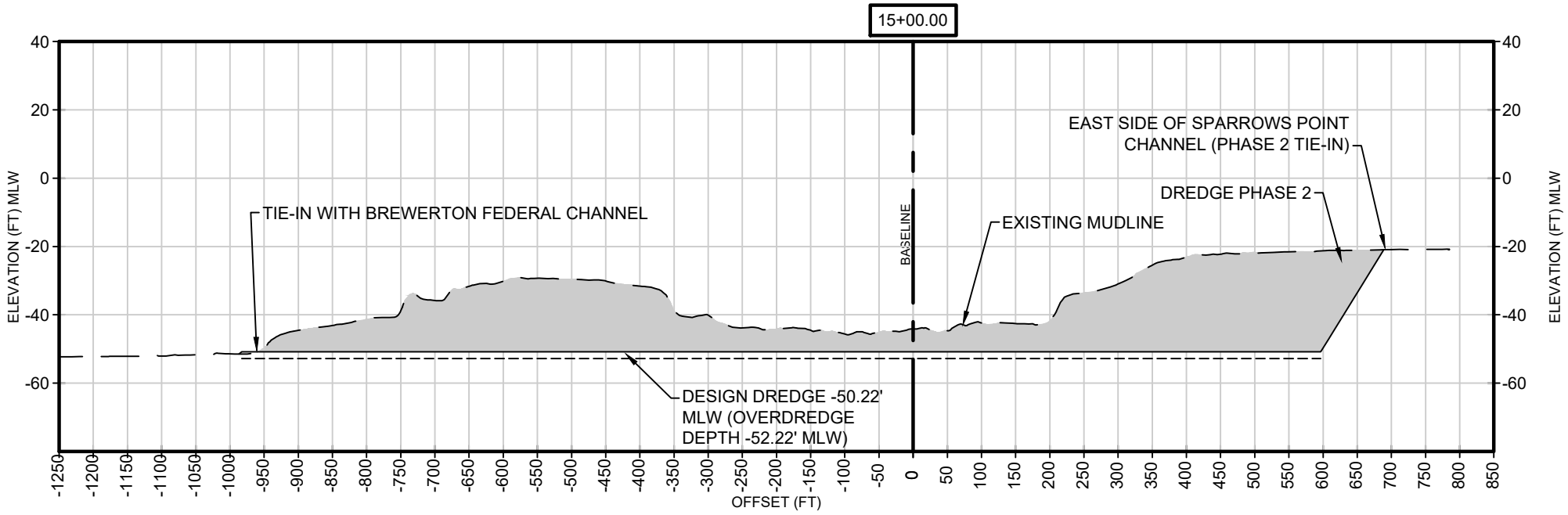
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 1 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN301

SHEET SIZE: A



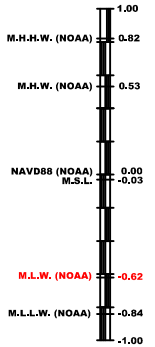
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

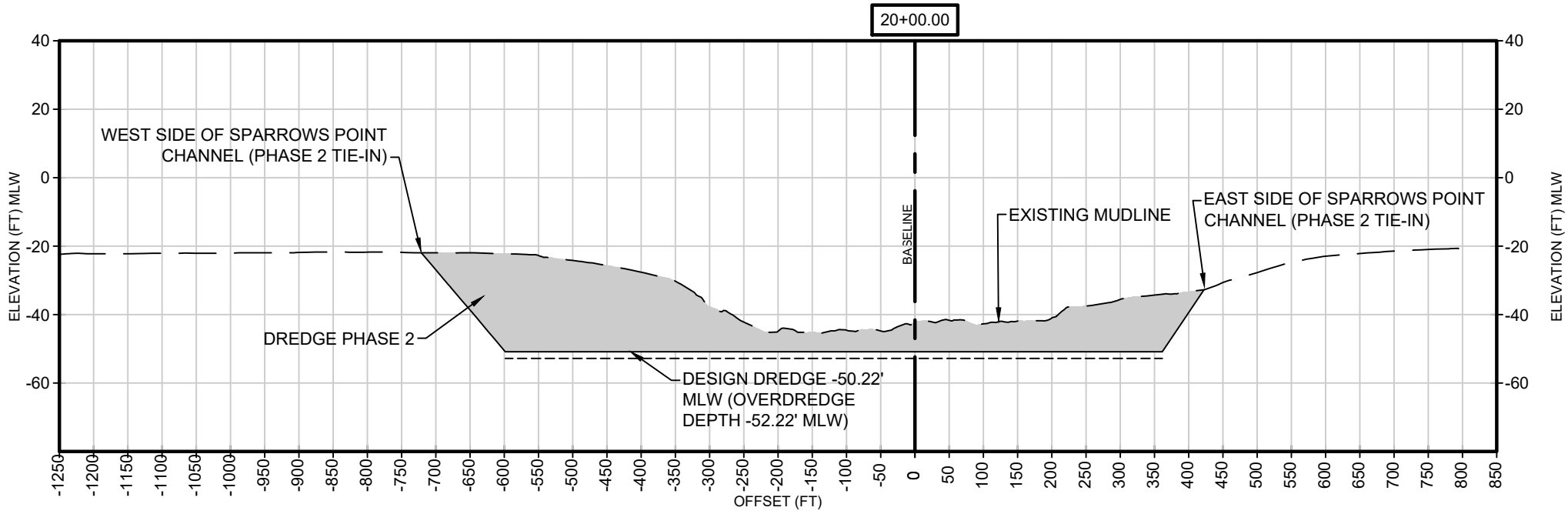
HATCH LANGAN

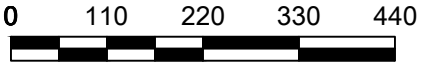
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 2 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN302

SHEET SIZE: A





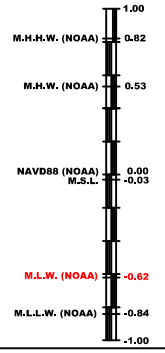
1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.



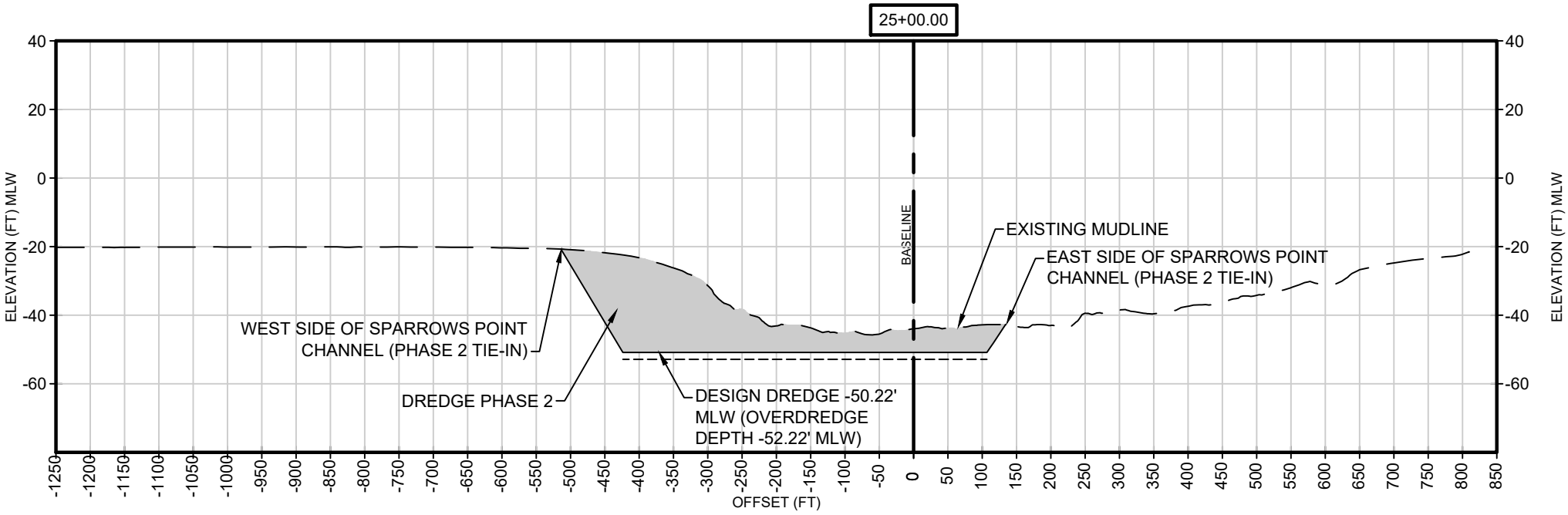
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 3 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN303

SHEET SIZE: A



LEGEND:

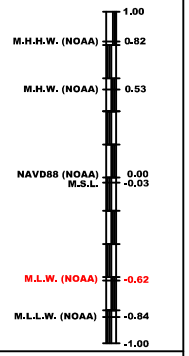
- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.



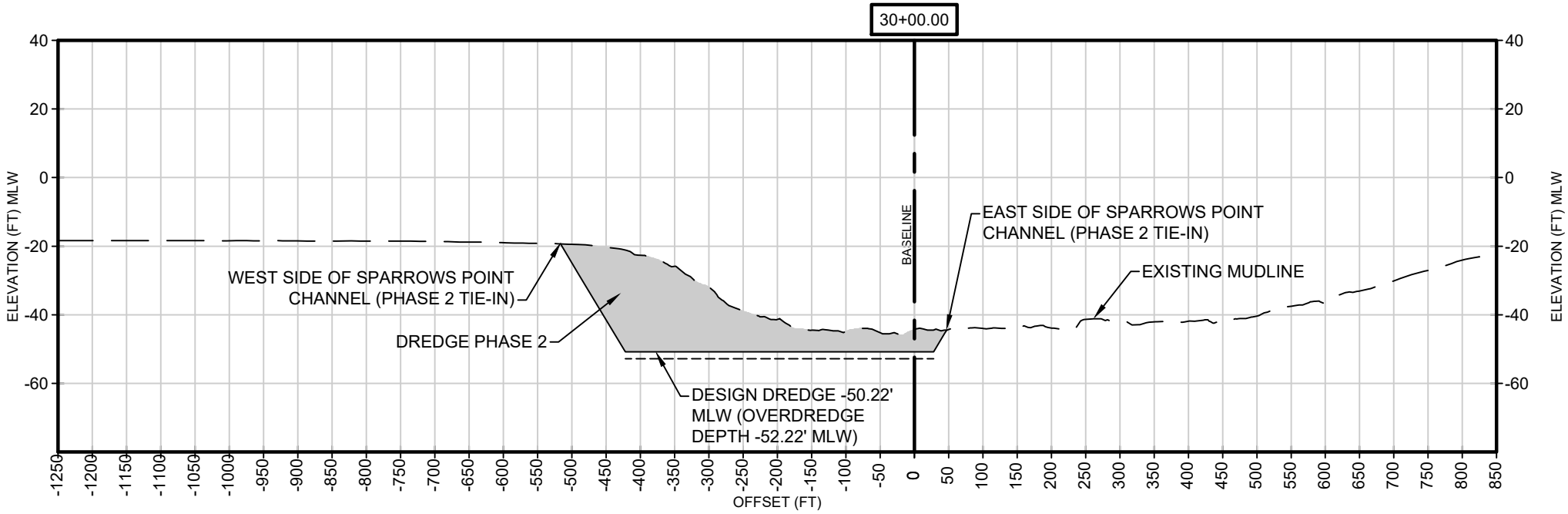
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 4 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN304

SHEET SIZE: A



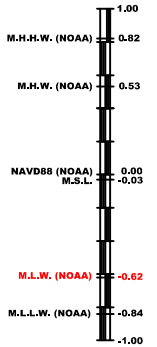
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

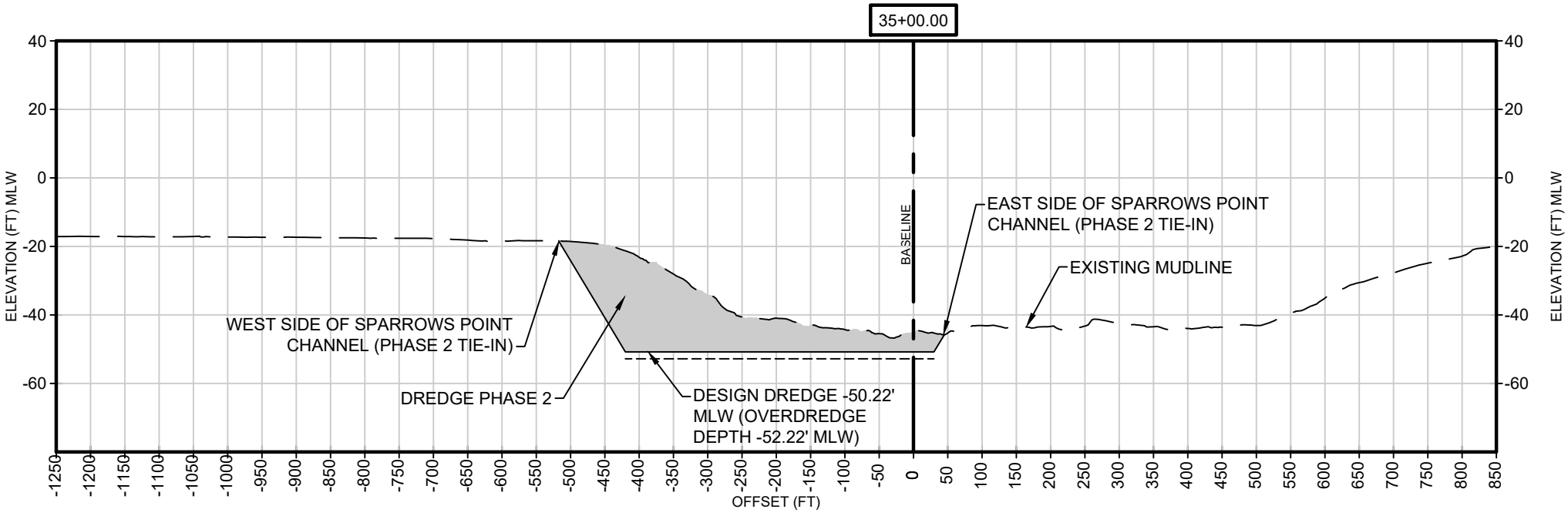
HATCH LANGAN

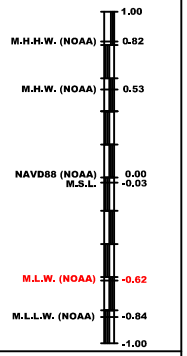
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 5 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN305

SHEET SIZE: A





LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

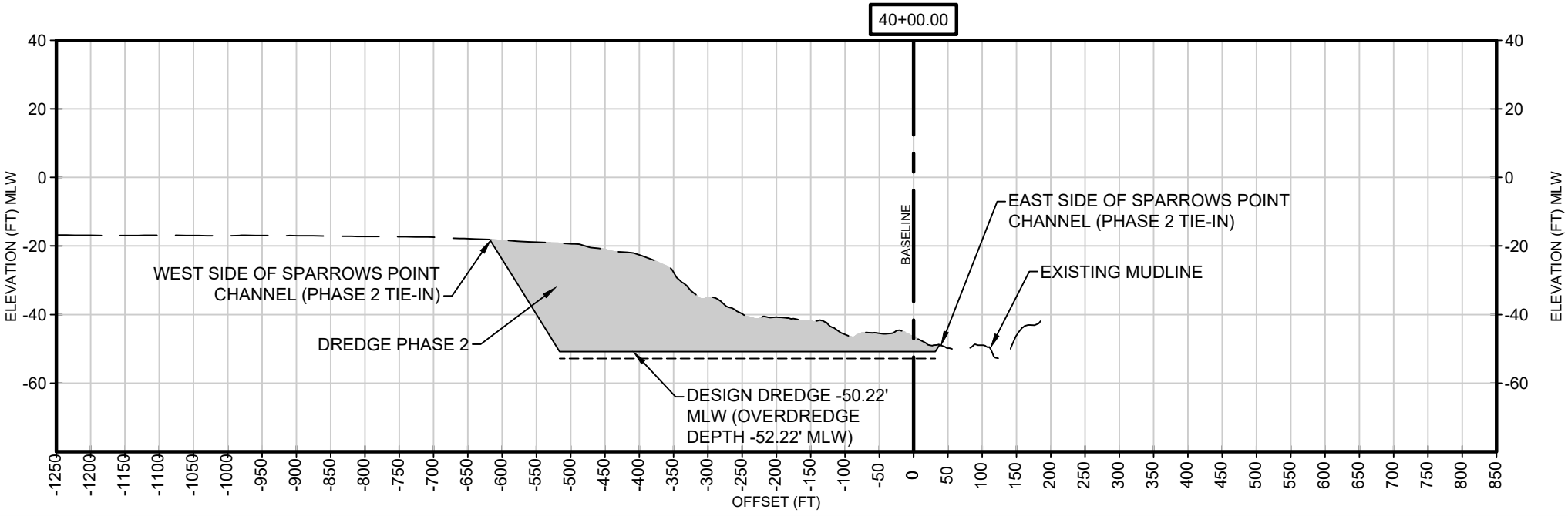
HATCH LANGAN

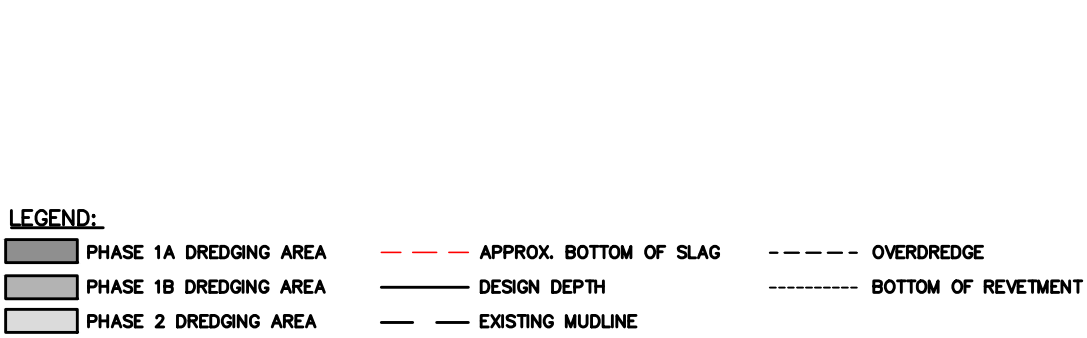
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 6 OF 14)

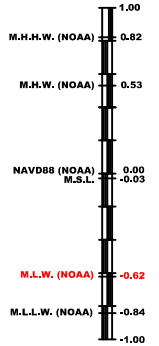
DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN306

SHEET SIZE: A





NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.



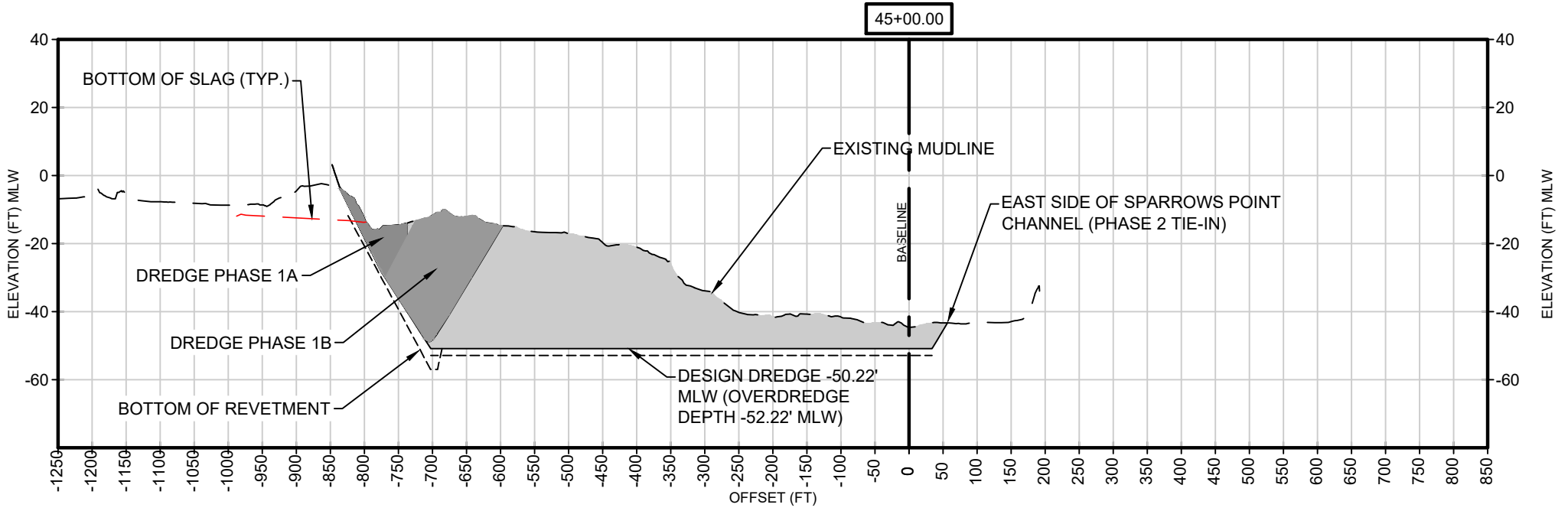
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 7 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN307

SHEET SIZE: A



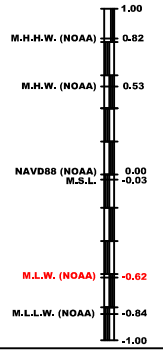
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

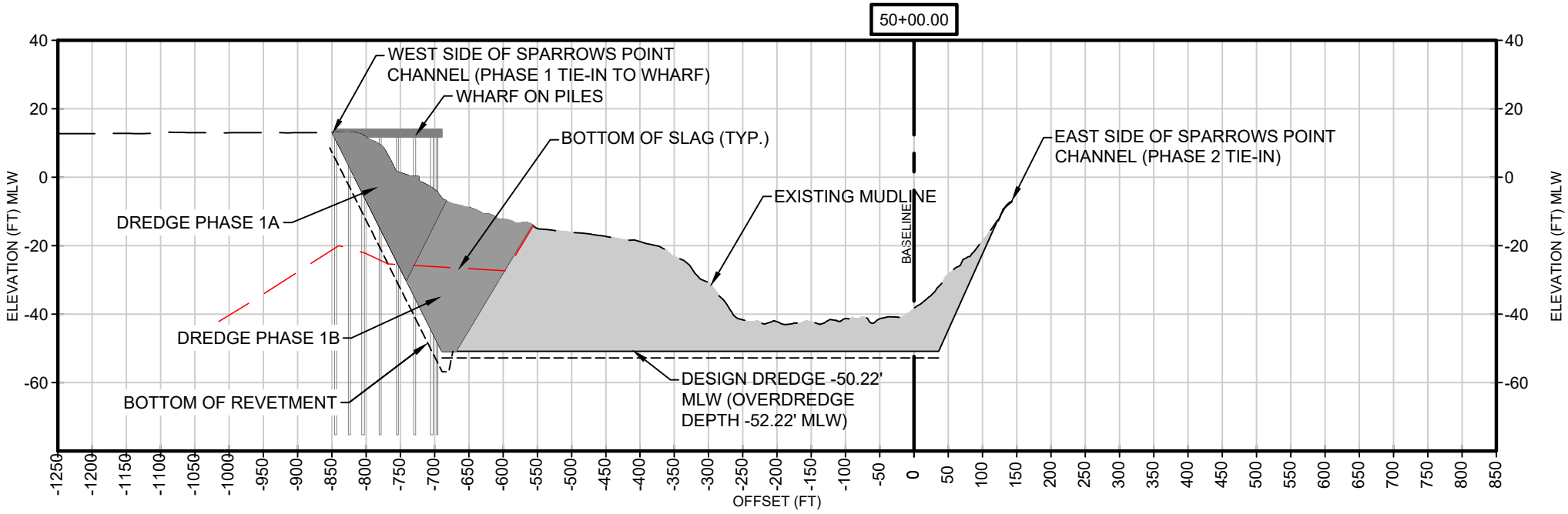
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 8 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN308

SHEET SIZE: A



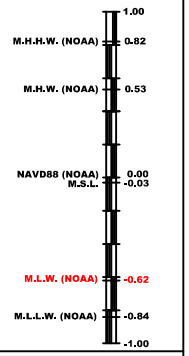
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

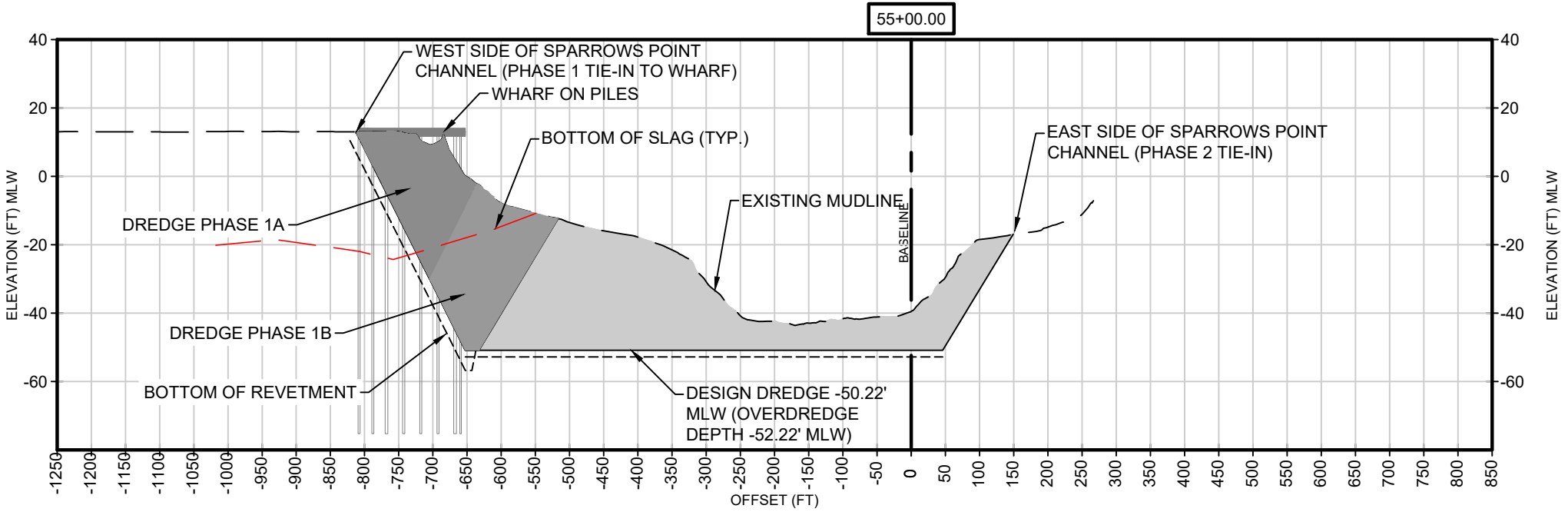
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 9 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN309

SHEET SIZE: A



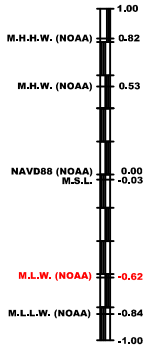
LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION



NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

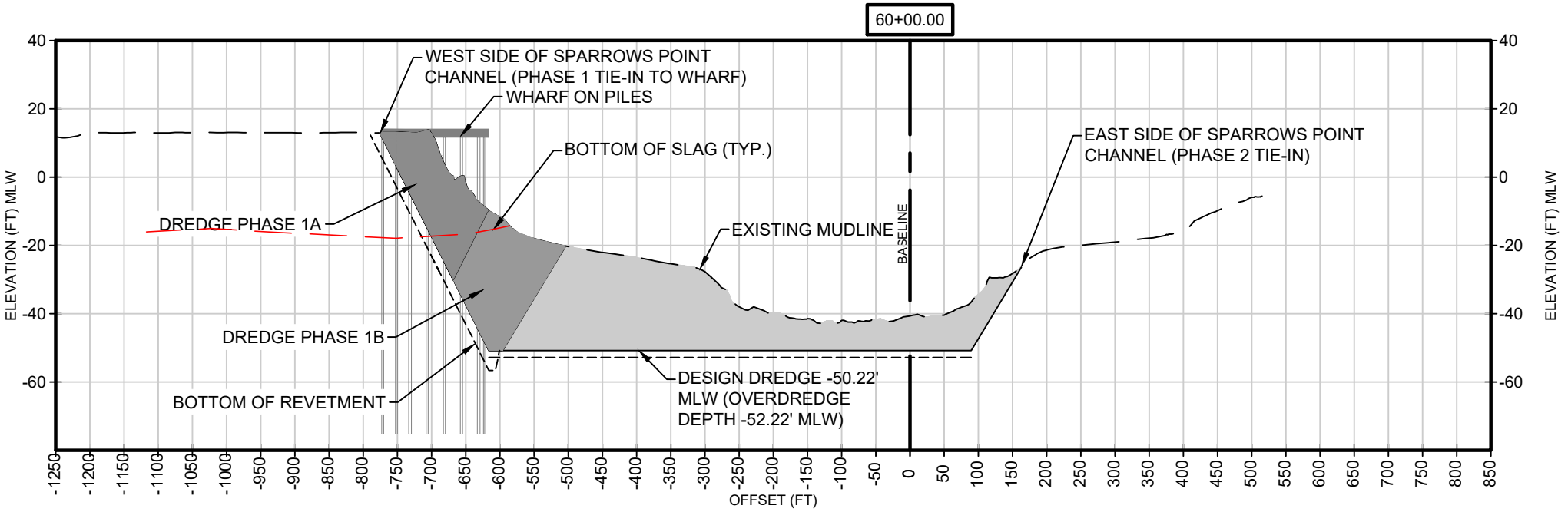
HATCH LANGAN

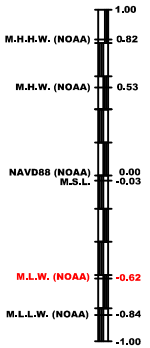
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 10 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN310

SHEET SIZE: A





0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

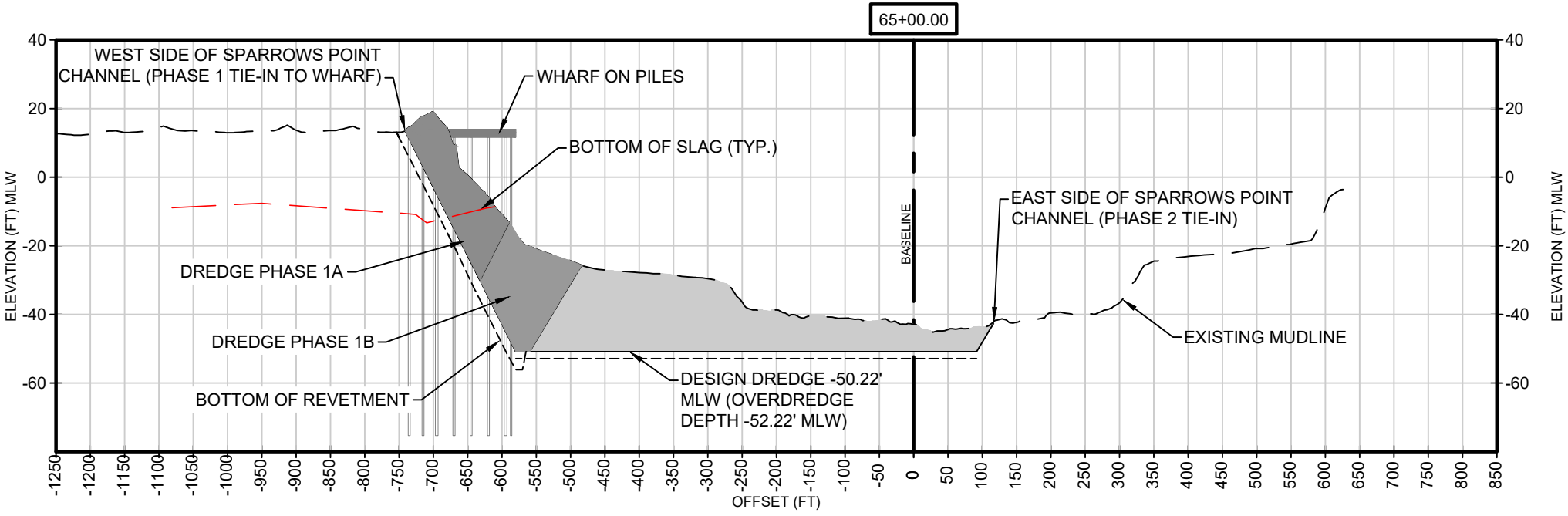
HATCH LANGAN

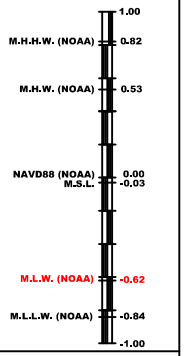
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 11 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN311

SHEET SIZE: A





0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

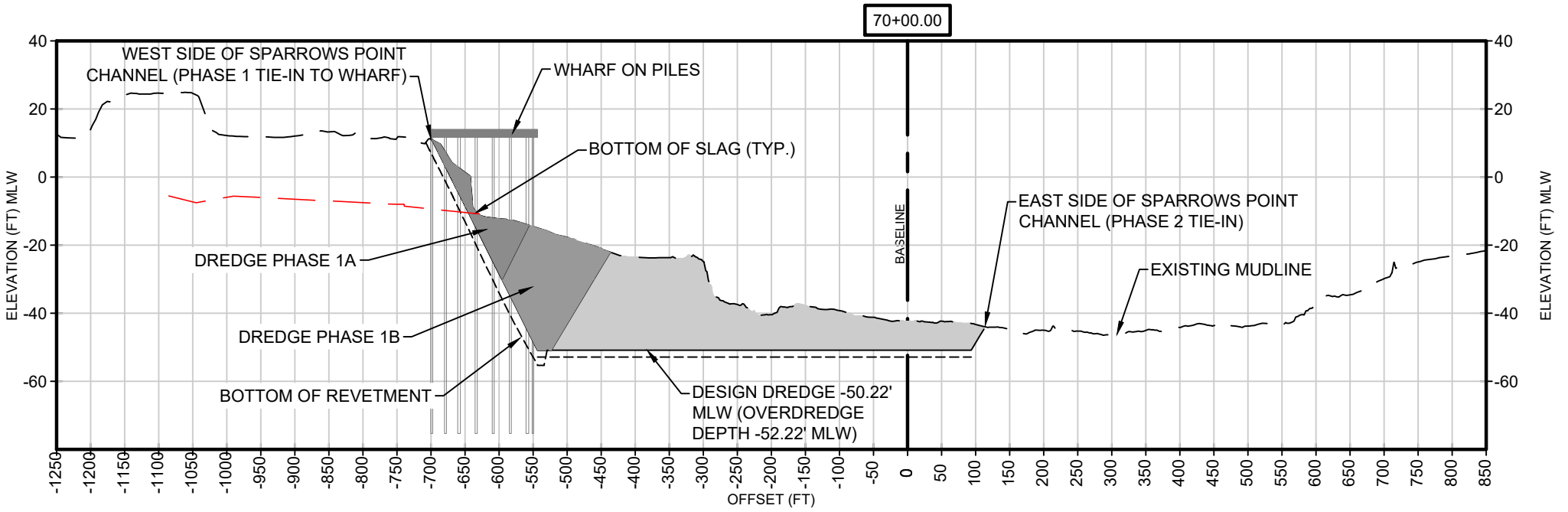
HATCH LANGAN

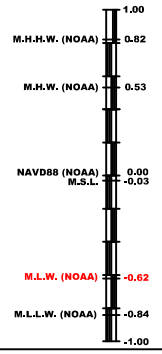
SPARROWS POINT CONTAINER TERMINAL

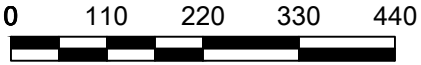
SECTIONS - DREDGING (SHEET 12 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN312

SHEET SIZE: A







1"=220'-0" SCALE IN FEET
5X VERTICAL EXAGGERATION

LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

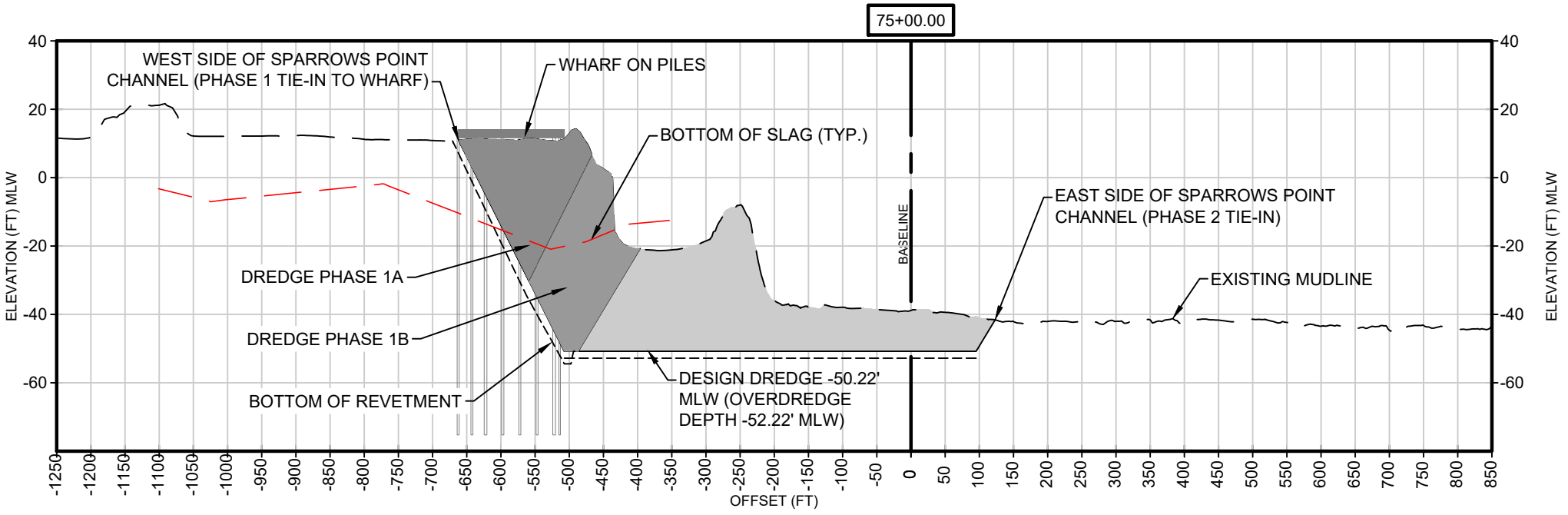
HATCH LANGAN

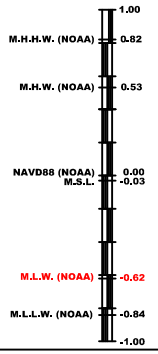
SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 13 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN313

SHEET SIZE: A





0 110 220 330 440

1"=220'-0" SCALE IN FEET

5X VERTICAL EXAGGERATION

LEGEND:

- PHASE 1A DREDGING AREA
- PHASE 1B DREDGING AREA
- PHASE 2 DREDGING AREA
- APPROX. BOTTOM OF SLAG
- DESIGN DEPTH
- EXISTING MUDLINE
- OVERDREDGE
- BOTTOM OF REVETMENT

NOTE:
1. ELEVATIONS SHOWN ARE REFERENCED TO MEAN LOW WATER (MLW) AS DEFINED BY NOAA BALTIMORE TIDE GAUGE (STATION ID 8574680). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

SECTIONS - DREDGING (SHEET 14 OF 14)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				CN314

SHEET SIZE: A

DREDGING IMPACTS SUMMARY
SPARROWS POINT CHANNEL

PROPOSED DREDGE QUANTITIES	
Proposed Total Dredge Footprint (SF)	5,907,855
Proposed Total Dredge Footprint (Acres)	135.63
Previously Permitted Maintenance Dredge Footprint (SF)	2,925,513
Previously Permitted Maintenance Dredge Footprint (Acres)	67.16
Proposed Dredge Footprint Not Previously Maintained as Maintenance Dredging (SF)	2,705,013
Proposed Dredge Footprint Not Previously Maintained as Maintenance Dredging (Acres)	62.10
Proposed Dredge Volume (CY)	4,200,000
Open Water Created Through Excavation (SF)	277,329
Open Water Created Through Excavation (Acres)	6.37
Proposed Dredge Footprint Between MHW and -3 MLW (SF)	65,527
Proposed Dredge Footprint Between MHW and -3 MLW (Acres)	1.50
Excavation Volume (CY)	133,361

SPARROWS POINT CONTAINER TERMINAL

DREDGING IMPACTS SUMMARY

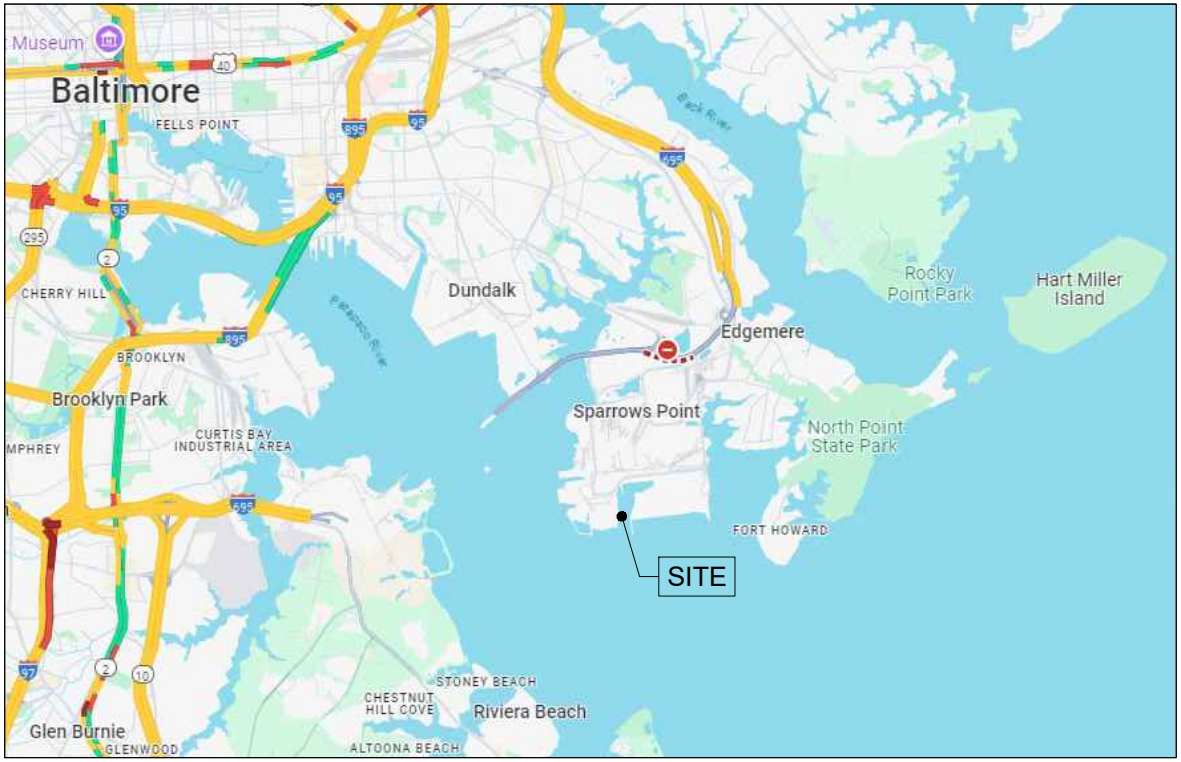
DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/23/2025		ATR	ATR				CN100

SHEET SIZE: A

SPARROWS POINT CONTAINER TERMINAL WHARF

SHORELINE IMPACT

BALTIMORE COUNTY, MARYLAND



LIST OF DRAWINGS:

DRAWING NO.	SHEET	DRAWING TITLE
0001	1	**TITLE SHEET**
0002	2	GENERAL ARRANGEMENT
CN108		NORTH OF WHARF
0003	3	WHARF PLAN SHEET 1 OF 2
0004	4	WHARF PLAN SHEET 2 OF 2
CN109		SOUTH OF WHARF
0005	5	INTENTIONALLY OMITTED
0006	6	SECTION
0007	7	SECTION
0008	8	SECTION
0009	9	SECTION
0010	10	IMPACT

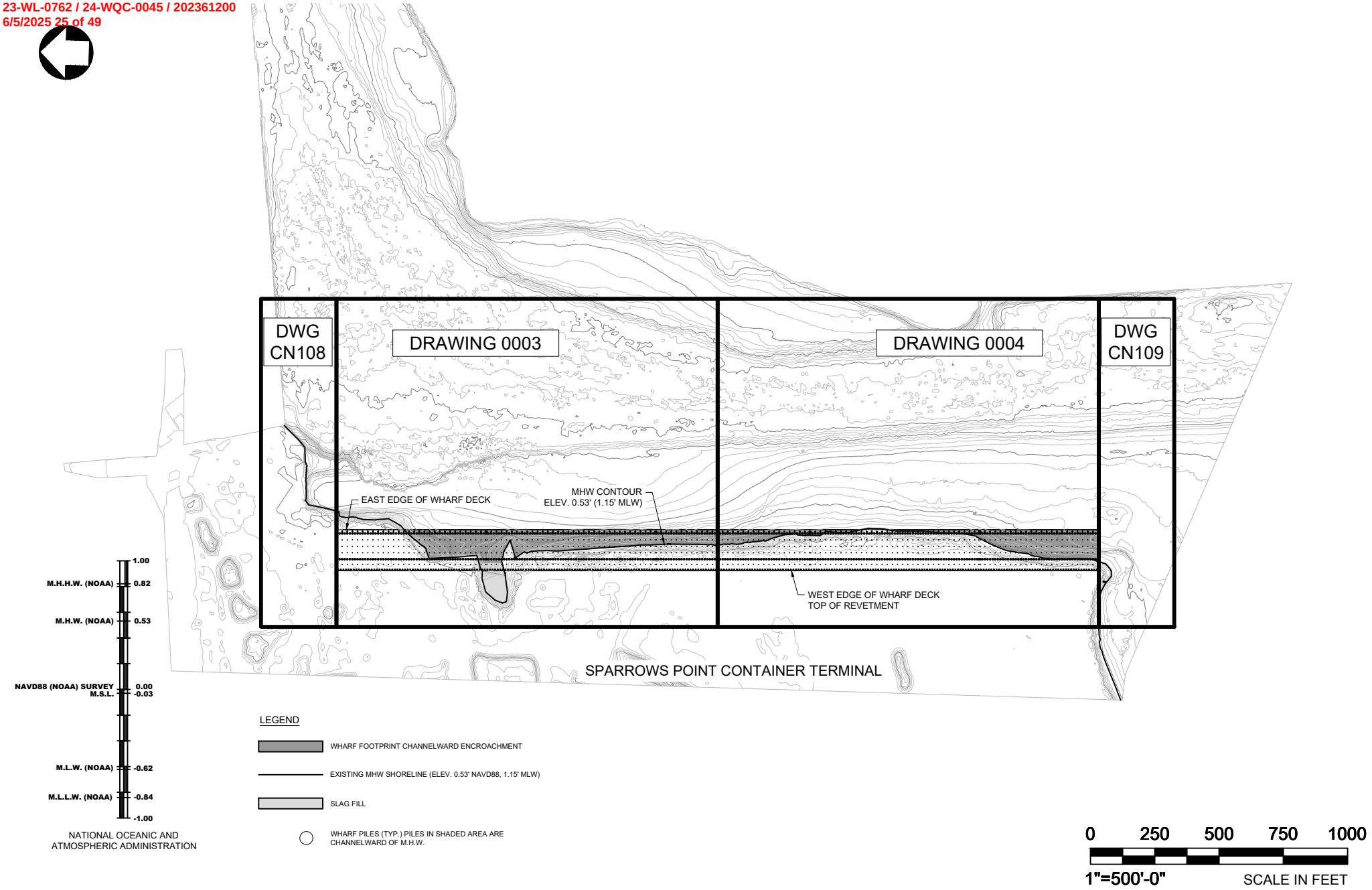
HATCH

SPARROWS POINT CONTAINER TERMINAL WHARF
BALTIMORE COUNTY, MARYLAND

TITLE SHEET

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/0 -. 4	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	1 OF 10	0001

SHEET SIZE: A



HATCH

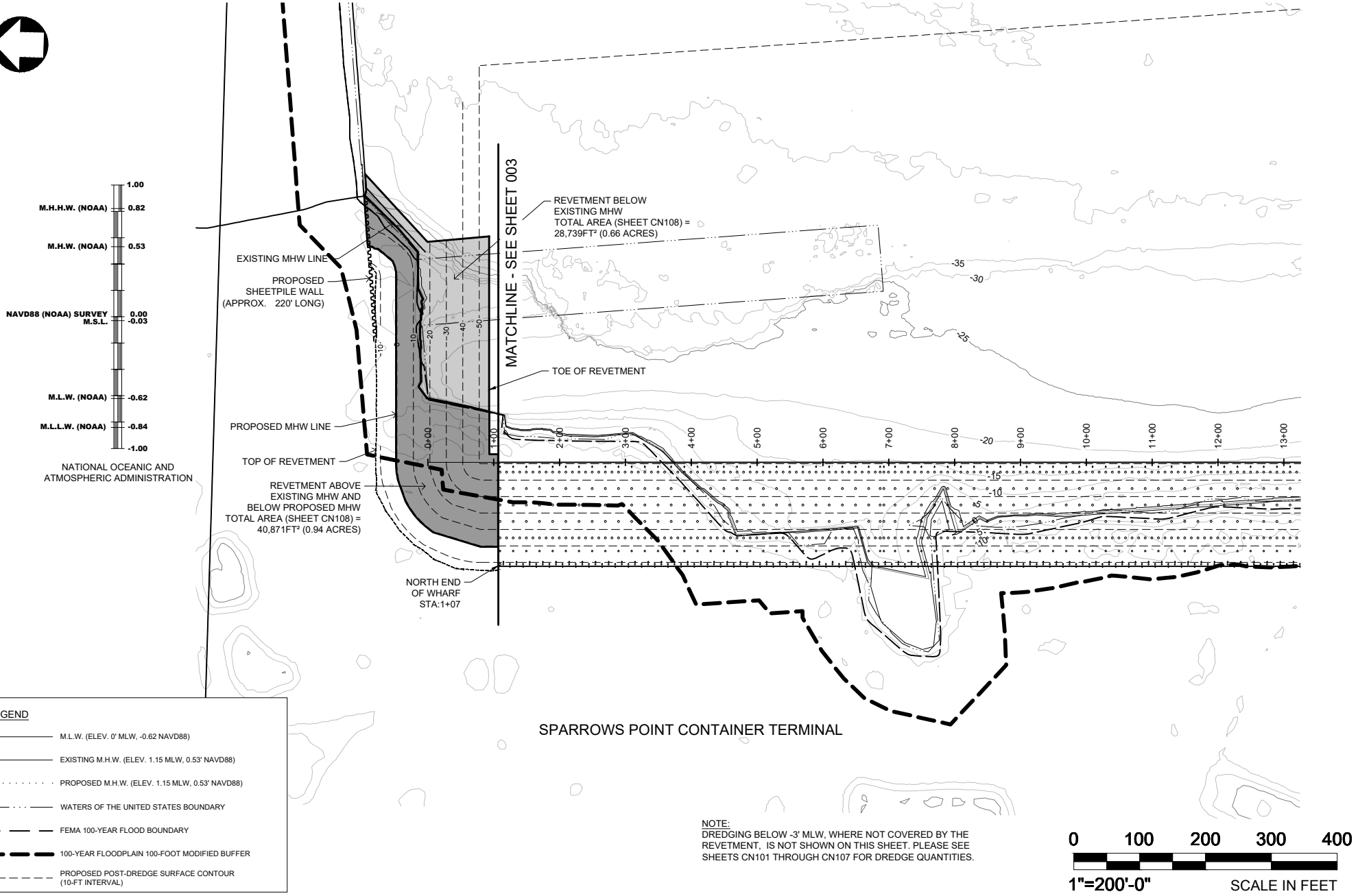
SPARROWS POINT CONTAINER TERMINAL WHARF

BALTIMORE COUNTY, MARYLAND

GENERAL ARRANGEMENT

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/21	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	2 OF 10	0002

SHEET SIZE: A



LEGEND

- M.L.W. (ELEV. 0' MLW, -0.62 NAVD88)
- EXISTING M.H.W. (ELEV. 1.15 MLW, 0.53' NAVD88)
- PROPOSED M.H.W. (ELEV. 1.15 MLW, 0.53' NAVD88)
- WATERS OF THE UNITED STATES BOUNDARY
- FEMA 100-YEAR FLOOD BOUNDARY
- 100-YEAR FLOODPLAIN 100-FOOT MODIFIED BUFFER
- PROPOSED POST-DREDGE SURFACE CONTOUR (10-FT INTERVAL)

NOTE:
DREDGING BELOW -3' MLW, WHERE NOT COVERED BY THE REVETMENT, IS NOT SHOWN ON THIS SHEET. PLEASE SEE SHEETS CN101 THROUGH CN107 FOR DREDGE QUANTITIES.

0 100 200 300 400
1"=200'-0" SCALE IN FEET

HATCH

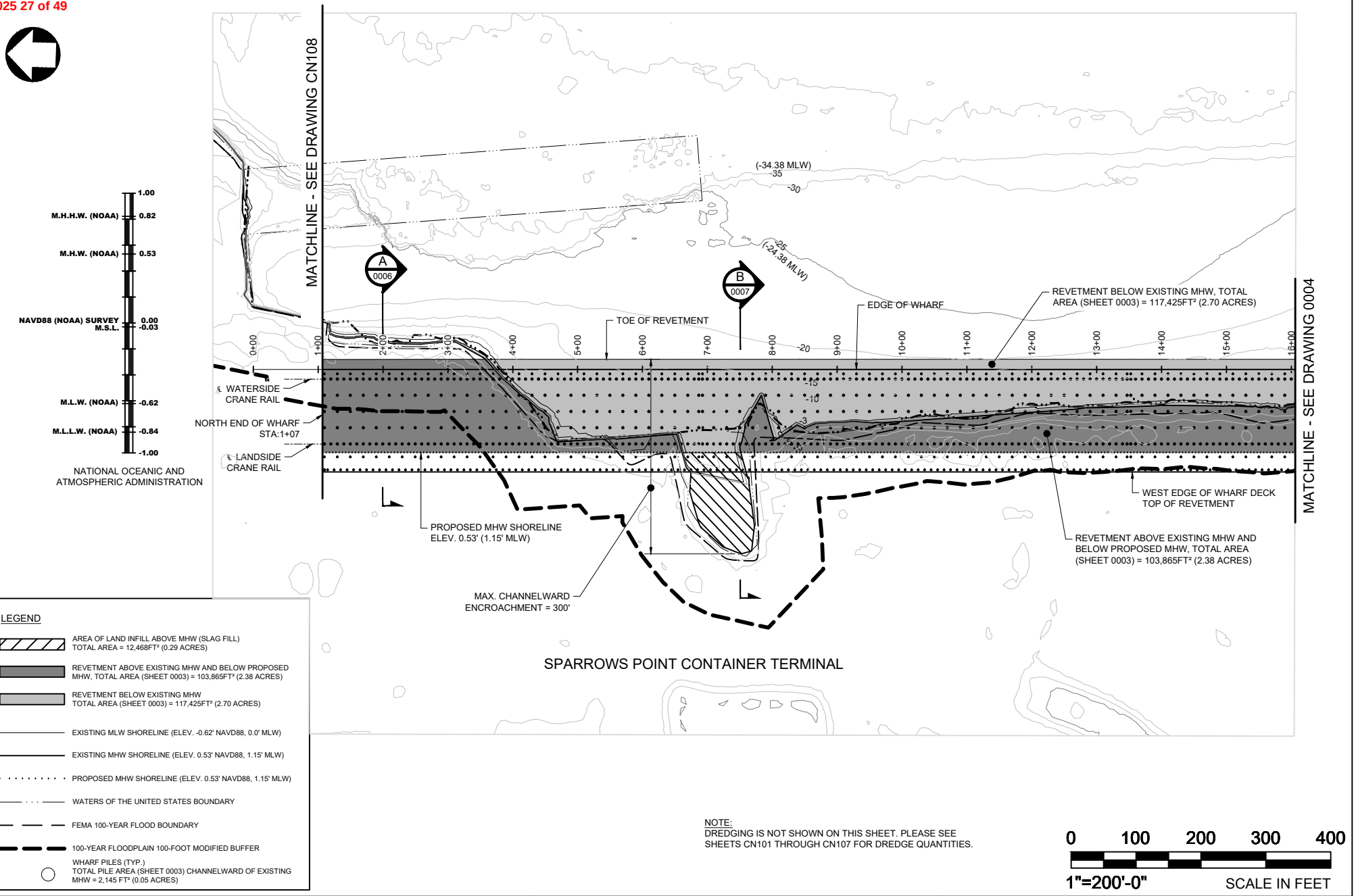
SPARROWS POINT CONTAINER TERMINAL WHARF

BALTIMORE COUNTY, MARYLAND

PLAN - NORTH OF WHARF

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/21	H374437	ANTHONY RUANE	ANTHONY RUANE	CHRIS KAKOLEWSKI	CHRIS KAKOLEWSKI		CN108

SHEET SIZE: A



LEGEND

- AREA OF LAND INFILL ABOVE MHW (SLAG FILL) TOTAL AREA = 12,468FT² (0.29 ACRES)
- REVETMENT ABOVE EXISTING MHW AND BELOW PROPOSED MHW, TOTAL AREA (SHEET 0003) = 103,865FT² (2.38 ACRES)
- REVETMENT BELOW EXISTING MHW TOTAL AREA (SHEET 0003) = 117,425FT² (2.70 ACRES)
- EXISTING MLW SHORELINE (ELEV. -0.62' NAVD88, 0.0' MLW)
- EXISTING MHW SHORELINE (ELEV. 0.53' NAVD88, 1.15' MLW)
- PROPOSED MHW SHORELINE (ELEV. 0.53' NAVD88, 1.15' MLW)
- WATERS OF THE UNITED STATES BOUNDARY
- FEMA 100-YEAR FLOOD BOUNDARY
- 100-YEAR FLOODPLAIN 100-FOOT MODIFIED BUFFER
- WHARF PILES (TYP.) TOTAL PILE AREA (SHEET 0003) CHANNELWARD OF EXISTING MHW = 2,145 FT² (0.05 ACRES)

NOTE:
DREDGING IS NOT SHOWN ON THIS SHEET. PLEASE SEE SHEETS CN101 THROUGH CN107 FOR DREDGE QUANTITIES.

0 100 200 300 400
1"=200'-0" SCALE IN FEET

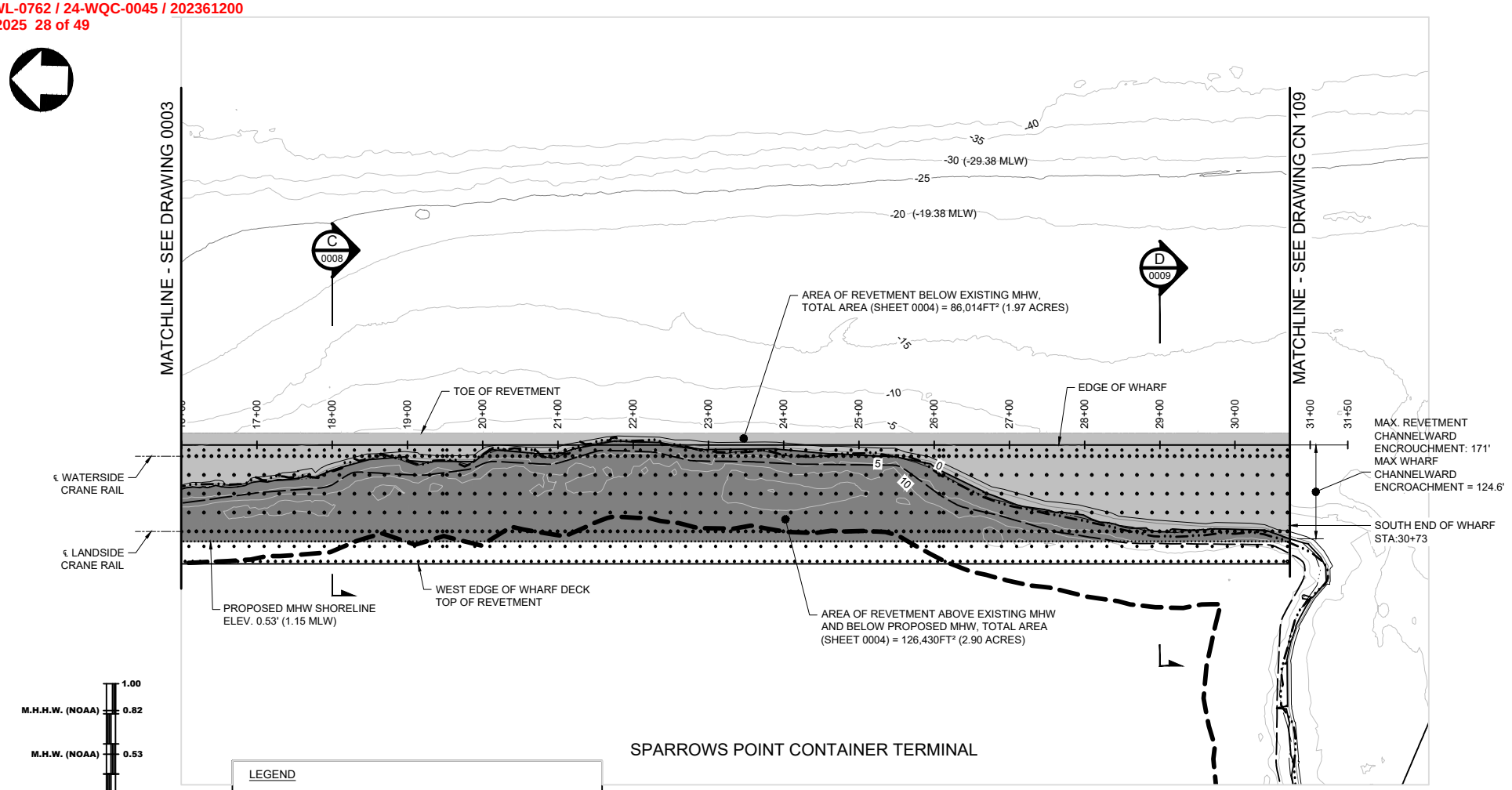
HATCH

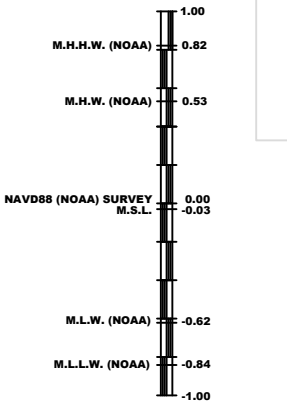
SPARROWS POINT CONTAINER TERMINAL WHARF
BALTIMORE COUNTY, MARYLAND

WHARF PLAN - SHEET 1 OF 2

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/23	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	3 OF 10	0003

SHEET SIZE: A





NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

LEGEND

- AREA OF REVETMENT ABOVE EXISTING MHW AND BELOW PROPOSED MHW, TOTAL AREA (SHEET 0004) = 126,430FT² (2.90 ACRES)
- AREA OF REVETMENT BELOW EXISTING MHW, TOTAL AREA (SHEET 0004) = 86,014FT² (1.97 ACRES)
- EXISTING MLW SHORELINE (ELEV. -0.62' NAVD88, 0.0' MLW)
- EXISTING MHW SHORELINE (ELEV. 0.53' NAVD88, 1.15' MLW)
- PROPOSED MHW SHORELINE (ELEV. 0.53' NAVD88, 1.15' MLW)
- WATERS OF THE UNITED STATES BOUNDARY
- FEMA 100-YEAR FLOOD BOUNDARY
- 100-YEAR FLOODPLAIN 100-FOOT MODIFIED BUFFER
- WHARF PILES (TYP.) TOTAL PILE AREA (SHEET 0004) CHANNELWARD OF MHW = 1,471FT² (0.03 ACRES)

NOTE:
DREDGING IS NOT SHOWN ON THIS SHEET. PLEASE SEE SHEETS CN101 THROUGH CN107 FOR DREDGE QUANTITIES.

0 100 200 300 400
1"=200'-0" SCALE IN FEET

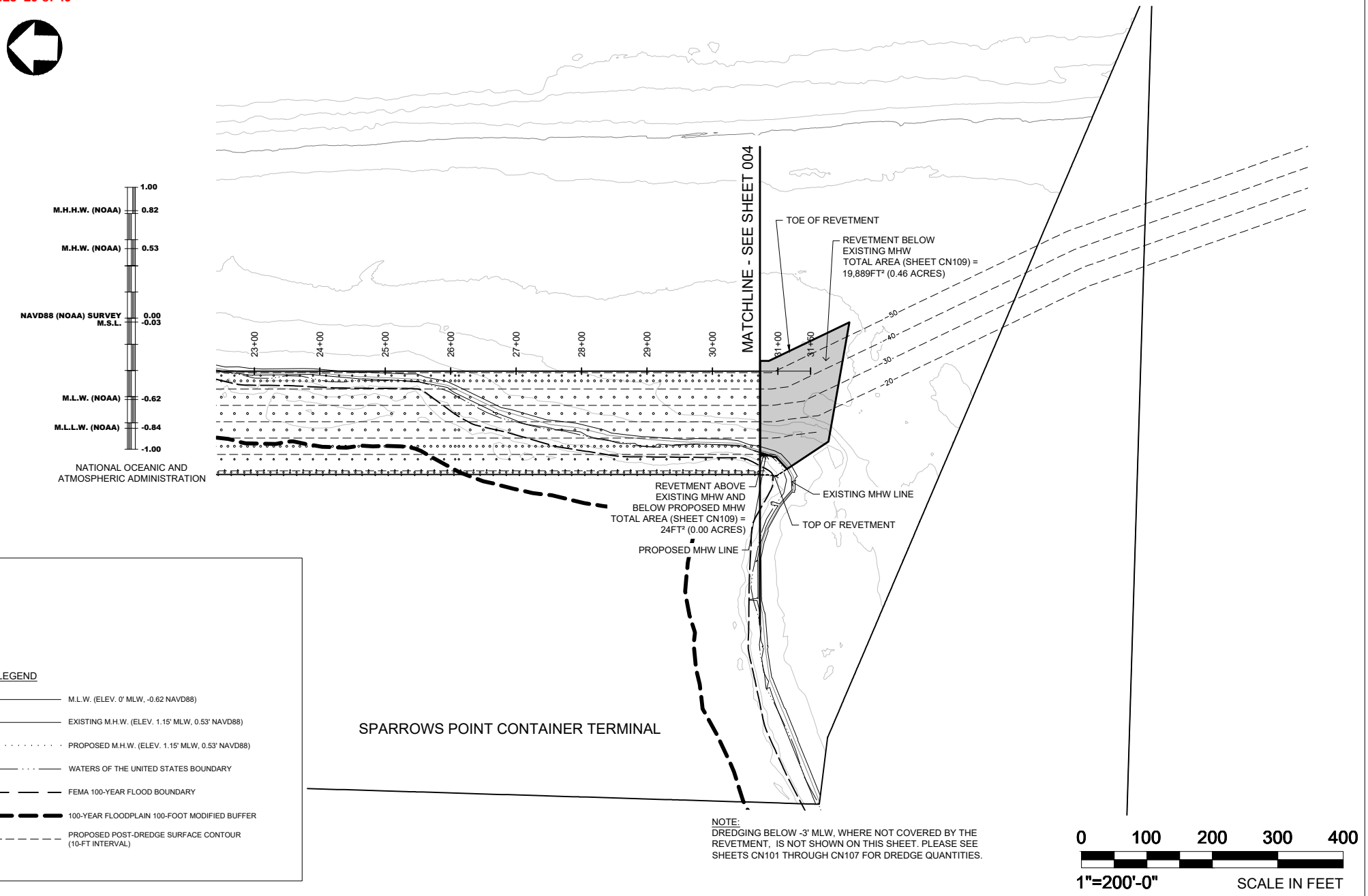
HATCH

SPARROWS POINT CONTAINER TERMINAL WHARF
BALTIMORE COUNTY, MARYLAND

WHARF PLAN - SHEET 2 OF 2

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/21	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	4 OF 10	0004

SHEET SIZE: A



HATCH

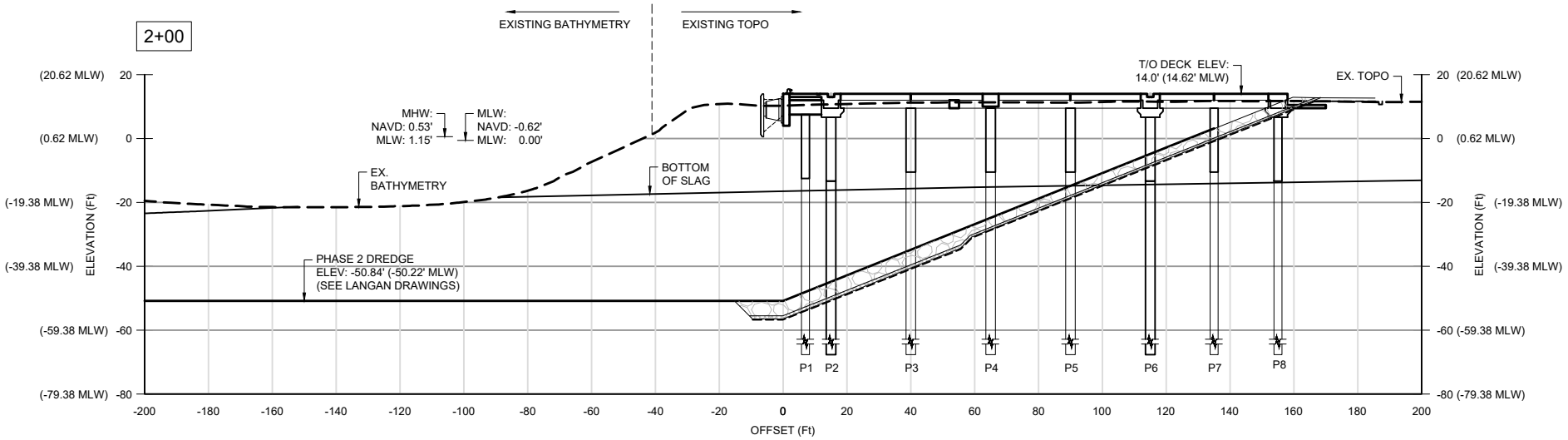
SPARROWS POINT CONTAINER TERMINAL WHARF

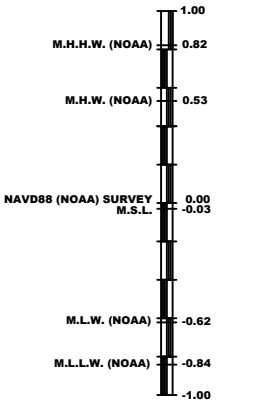
BALTIMORE COUNTY, MARYLAND

PLAN - SOUTH OF WHARF

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/09	H374437	ANTHONY RUANE	ANTHONY RUANE	CHRIS KAKOLEWSKI	CHRIS KAKOLEWSKI		CN109

SHEET SIZE: A

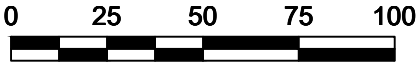




NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

PILE LEGEND:

P1 = Ø30" STEEL CANTILEVER PILE (20' SPACING)
P2 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P3 = Ø36" STEEL DECK PILE (20' SPACING)
P4 = Ø36" STEEL DECK PILE (20' SPACING)
P5 = Ø36" STEEL DECK PILE (20' SPACING)
P6 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P7 = Ø30" STEEL DECK PILE (20' SPACING)
P8 = Ø30" STEEL PILE (10' SPACING)



HATCH

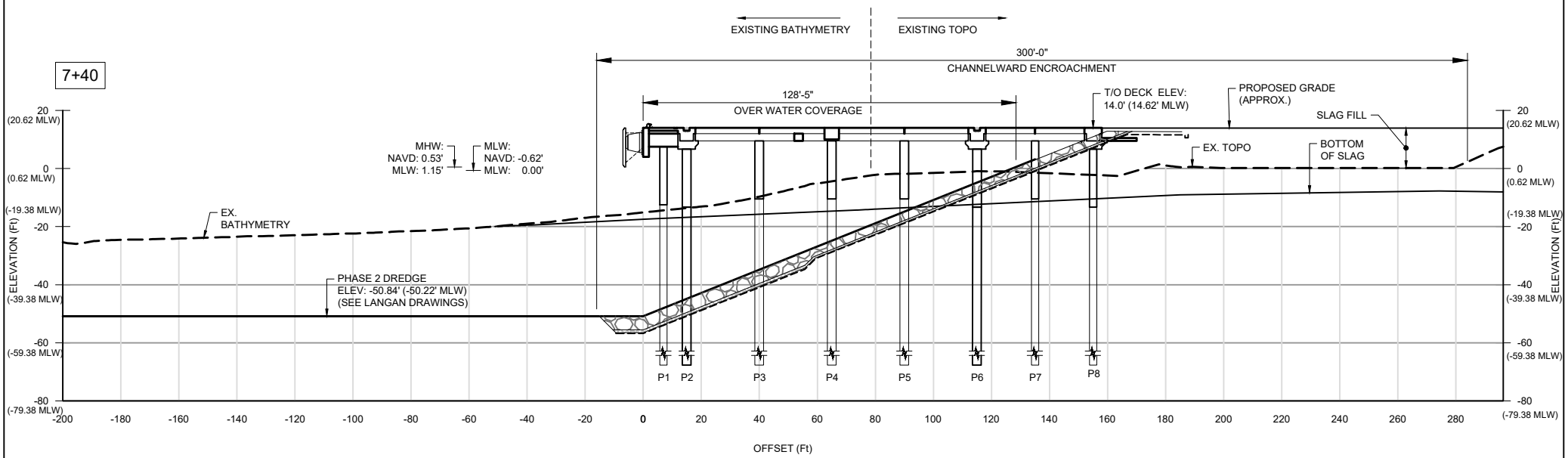
SPARROWS POINT CONTAINER TERMINAL WHARF

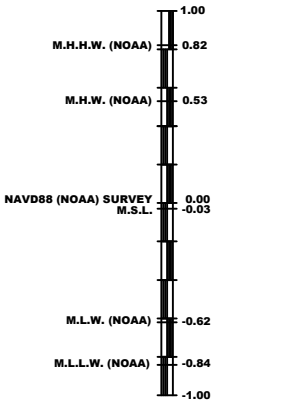
BALTIMORE COUNTY, MARYLAND

SECTION

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/05	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	6 OF 10	0006

SHEET SIZE: A





NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

PILE LEGEND:

P1 = Ø30" STEEL CANTILEVER PILE (20' SPACING)
P2 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P3 = Ø36" STEEL DECK PILE (20' SPACING)
P4 = Ø36" STEEL DECK PILE (20' SPACING)
P5 = Ø36" STEEL DECK PILE (20' SPACING)
P6 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P7 = Ø30" STEEL DECK PILE (20' SPACING)
P8 = Ø30" STEEL PILE (10' SPACING)

0 25 50 75 100
1"=50'-0" SCALE IN FEET

HATCH

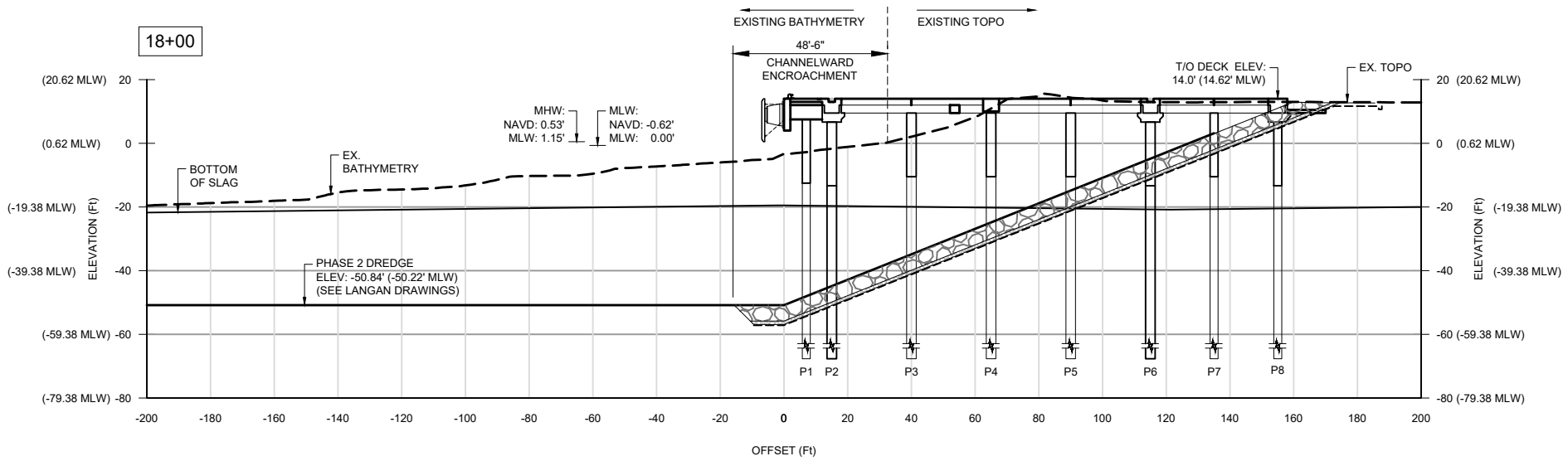
SPARROWS POINT
CONTAINER TERMINAL
WHARF

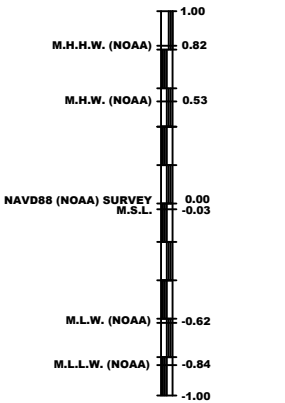
BALTIMORE COUNTY, MARYLAND

SECTION

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/05	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	7 OF 10	0007

SHEET SIZE: A





NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

PILE LEGEND:

P1 = Ø30" STEEL CANTILEVER PILE (20' SPACING)
P2 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P3 = Ø36" STEEL DECK PILE (20' SPACING)
P4 = Ø36" STEEL DECK PILE (20' SPACING)
P5 = Ø36" STEEL DECK PILE (20' SPACING)
P6 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P7 = Ø30" STEEL DECK PILE (20' SPACING)
P8 = Ø30" STEEL BATTER PILE (10' SPACING)

0 25 50 75 100
1"=50'-0" SCALE IN FEET

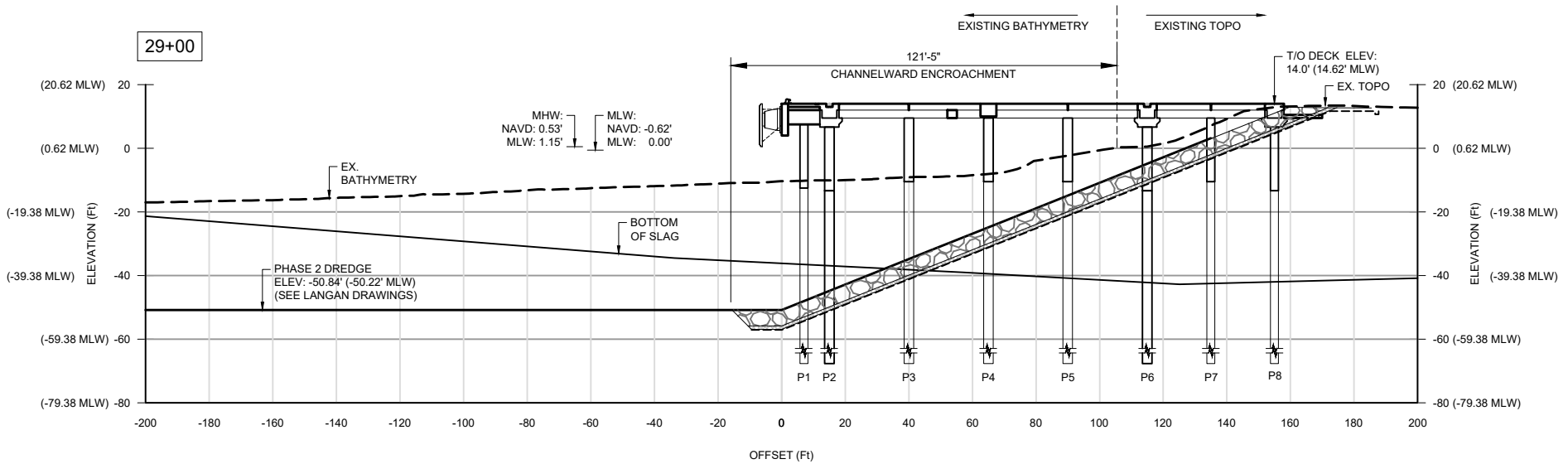
HATCH

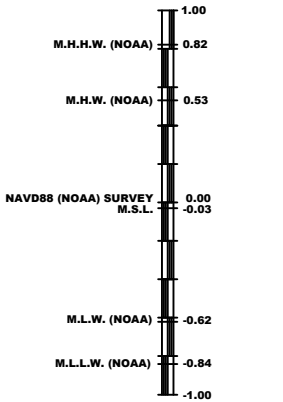
SPARROWS POINT CONTAINER TERMINAL WHARF
BALTIMORE COUNTY, MARYLAND

SECTION

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/05	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	8 OF 10	0008

SHEET SIZE: A





NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

PILE LEGEND:

P1 = Ø30" STEEL CANTILEVER PILE (20' SPACING)
P2 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P3 = Ø36" STEEL DECK PILE (20' SPACING)
P4 = Ø36" STEEL DECK PILE (20' SPACING)
P5 = Ø36" STEEL DECK PILE (20' SPACING)
P6 = Ø36" STEEL CRANE RAIL PILE (10' SPACING)
P7 = Ø30" STEEL DECK PILE (20' SPACING)
P8 = Ø30" STEEL PILE (10' SPACING)

0 25 50 75 100
1"=50'-0" SCALE IN FEET

HATCH

SPARROWS POINT
CONTAINER TERMINAL
WHARF

BALTIMORE COUNTY, MARYLAND

SECTION

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/05	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	9 OF 10	0009

SHEET SIZE: A

PILES WITHIN CURRENT STATE TIDAL WETLANDS			
DIAMETER	QUANTITY	AREA (FT²)	
30"	139	682.5	
36"	415	2933.5	
	554	3616.0	
		0.08	ACRE

REVETMENT WITHIN CURRENT STATE TIDAL WETLANDS		
AREA	AREA (FT²)	
BENEATH AND IN FRONT OF WHARF	203,439	
OUTSIDE OF WHARF ON BOTH ENDS	48,628	
	252,067	
	5.79	ACRE

PILES WITHIN PROPOSED TIDAL WETLANDS*			
DIAMETER	QUANTITY	AREA (FT²)	
30"	153	751.2	
36"	1061	7501.3	
	1214	8,252.5	
		0.19	ACRE

REVETMENT WITHIN PROPOSED TIDAL WETLANDS*		
AREA	AREA (FT²)	
BENEATH AND IN FRONT OF WHARF	433,734	
OUTSIDE OF WHARF ON BOTH ENDS	89,523	
	523,257	
	12.01	ACRE

* QUANTITIES SHOWN ARE WITHIN ALL PROPOSED TIDAL WETLANDS, INCLUDING CURRENT STATE TIDAL WETLANDS

NINE SHIIP-TO-SHORE (STS) CRANES
ACTIVE CRANES: MAX HEIGHT OF 330' ABOVE WHARF DECK
STORED CRANES: MAX HEIGHT OF 484' ABOVE WHARF DECK

NTS

SLAG FILL AREA = 12,468FT² (0.3 ACRES)

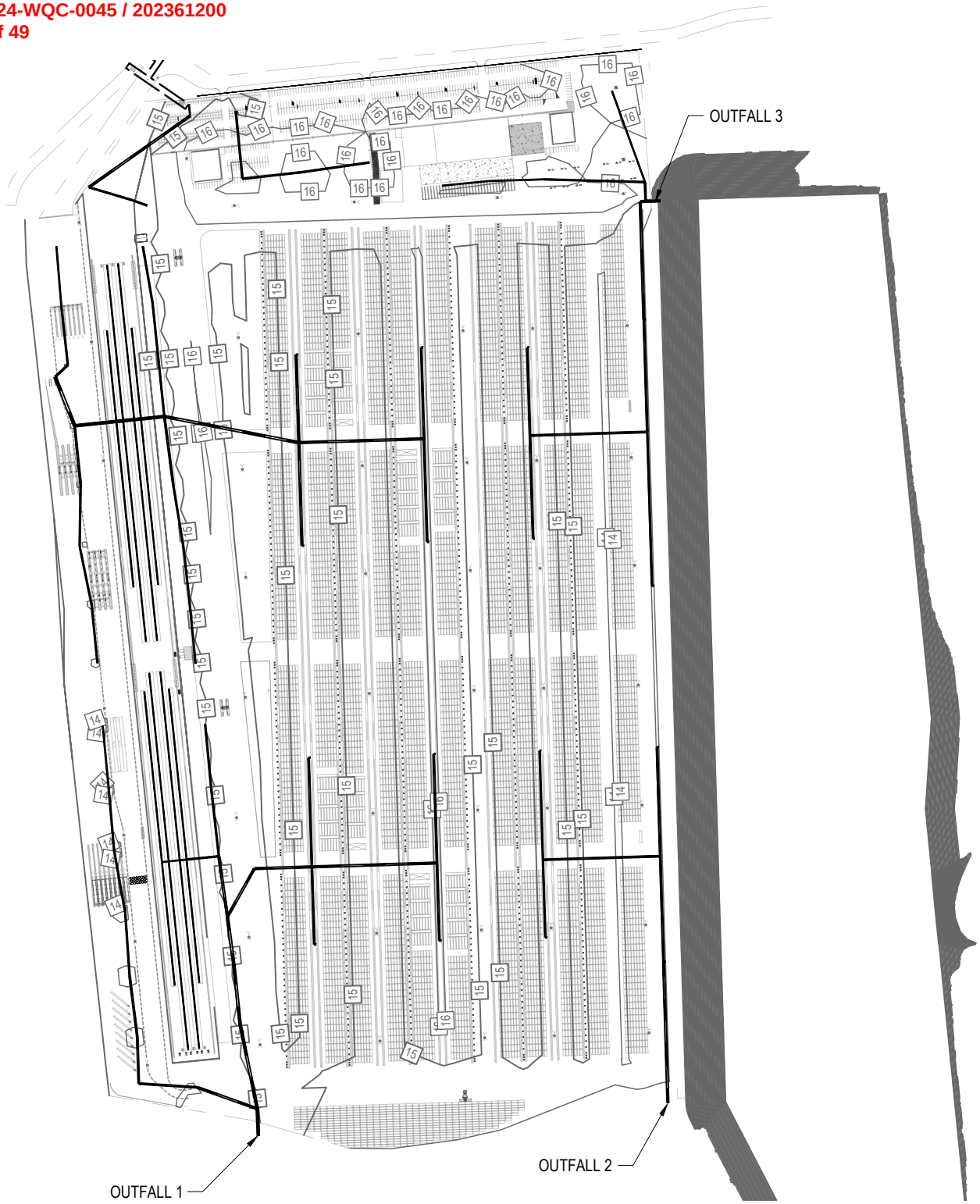
HATCH

SPARROWS POINT CONTAINER TERMINAL WHARF
BALTIMORE COUNTY, MARYLAND

IMPACT

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
25/05/23	H374437	SARA SHATZ	TIM DONOVAN	SARA SHATZ	JOSHUA NELSON	10 OF 10	0010

SHEET SIZE: A



05/01/2025 | DMD | MDA220013.03

SPARROWS POINT CONTAINER TERMINAL

TRADEPOINT ATLANTIC

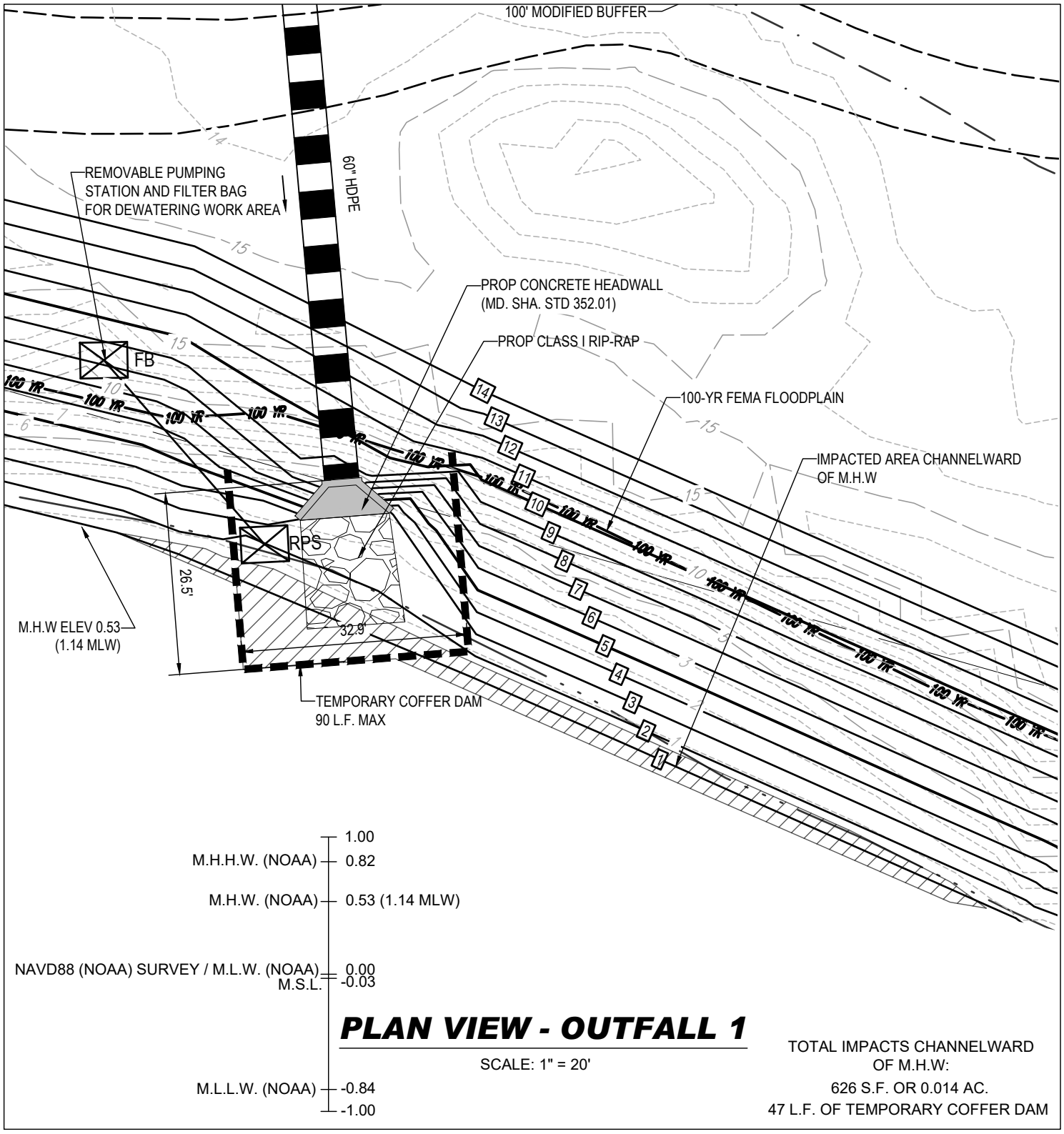
BALTIMORE, MD 21219

BOHLER

901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

N

500 250 125 0
1"= 500'



PLAN VIEW - OUTFALL 1

SCALE: 1" = 20'

TOTAL IMPACTS CHANNELWARD OF M.H.W:
626 S.F. OR 0.014 AC.
47 L.F. OF TEMPORARY COFFER DAM

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-C\VL-EXHA-MDA220013.03----->LAYOUT: PLAN 1

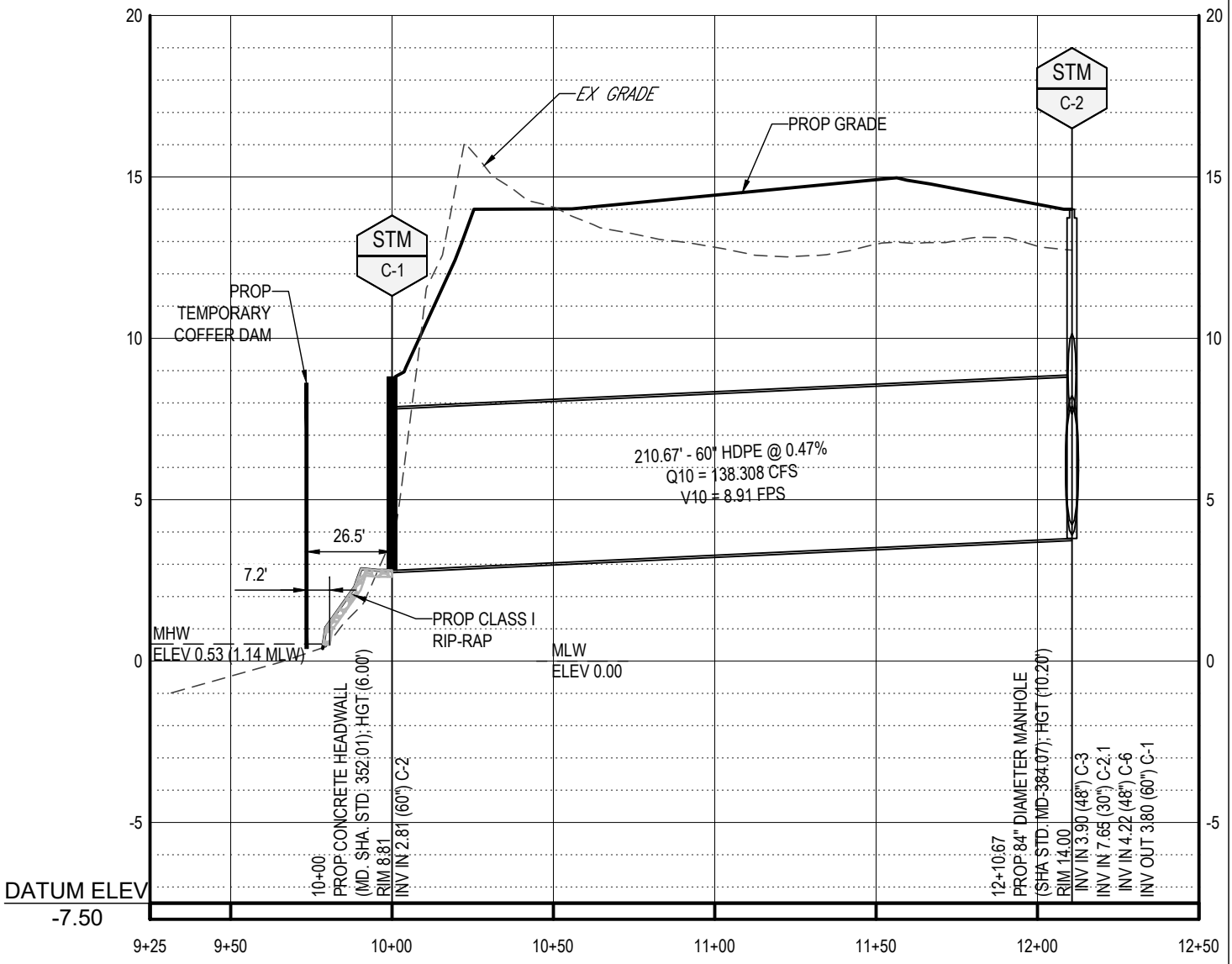
1/7/25 | DMD | MDA220013.03

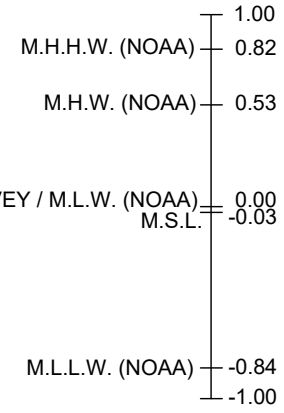
SPARROWS POINT CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

20 10 5 0
1"= 20'





PROPOSED OUTFALL 1

SCALE: 1"= 50 ' HORIZONTAL
1"= 5 ' VERTICAL

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-C\VL-EXHA-MDA220013.03----->LAYOUT: PROFILE 1

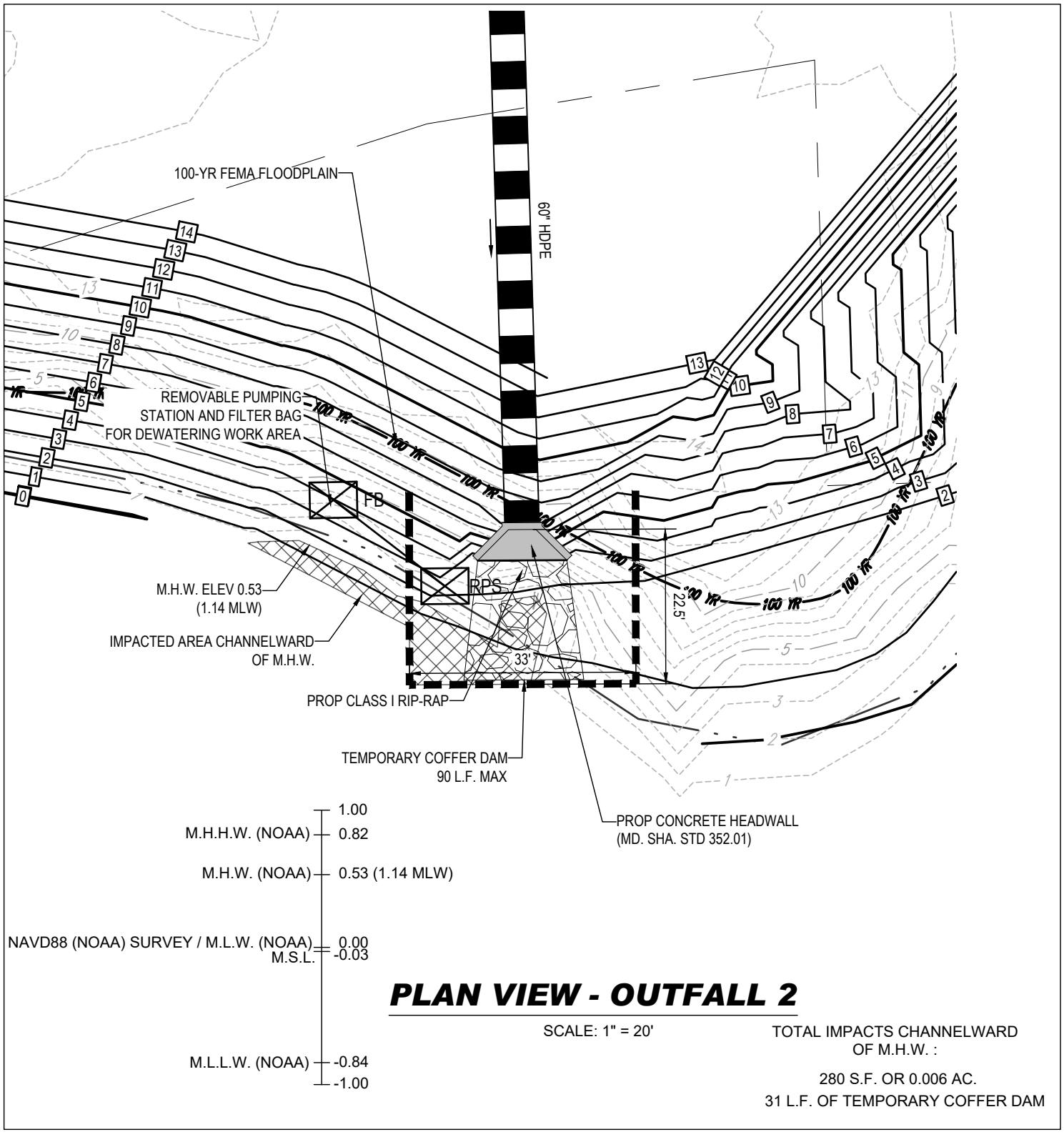
05/01/25 | DMD | MDA220013.03

SPARROWS POINT CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

50 25 12.5 0
1"= 50'



PLAN VIEW - OUTFALL 2

SCALE: 1" = 20'

TOTAL IMPACTS CHANNELWARD OF M.H.W. :

280 S.F. OR 0.006 AC.

31 L.F. OF TEMPORARY COFFER DAM

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-C\VL-EXHA-MDA220013.03----->LAYOUT: PLAN 2

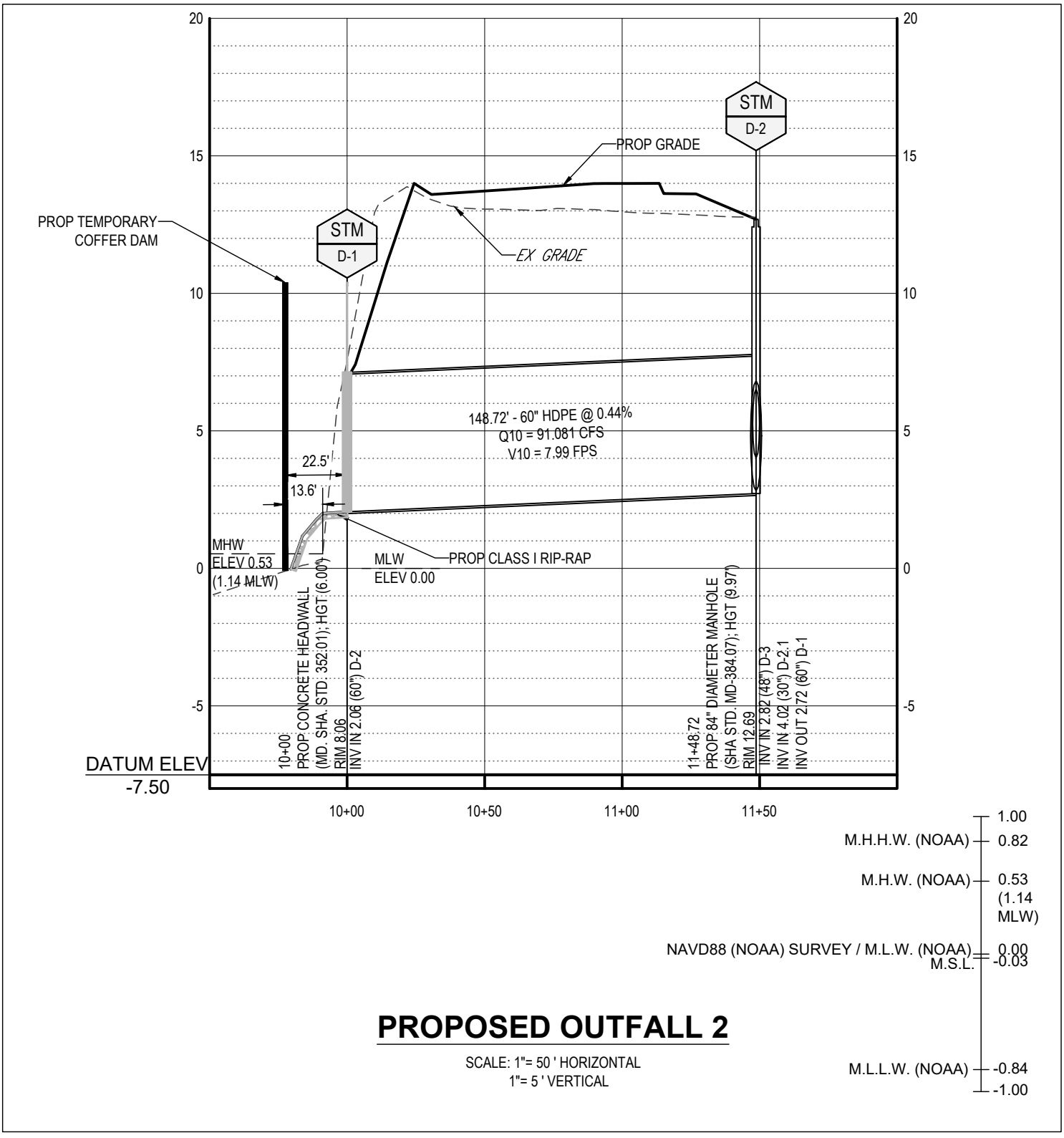
1/7/25 | DMD | MDA220013.03

SPARROWS POINT CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

20 10 5 0
1"= 20'



PROPOSED OUTFALL 2

SCALE: 1"= 50 ' HORIZONTAL
1"= 5 ' VERTICAL

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-CIVL-EXHA-MDA220013.03----->LAYOUT: PROFILE 2

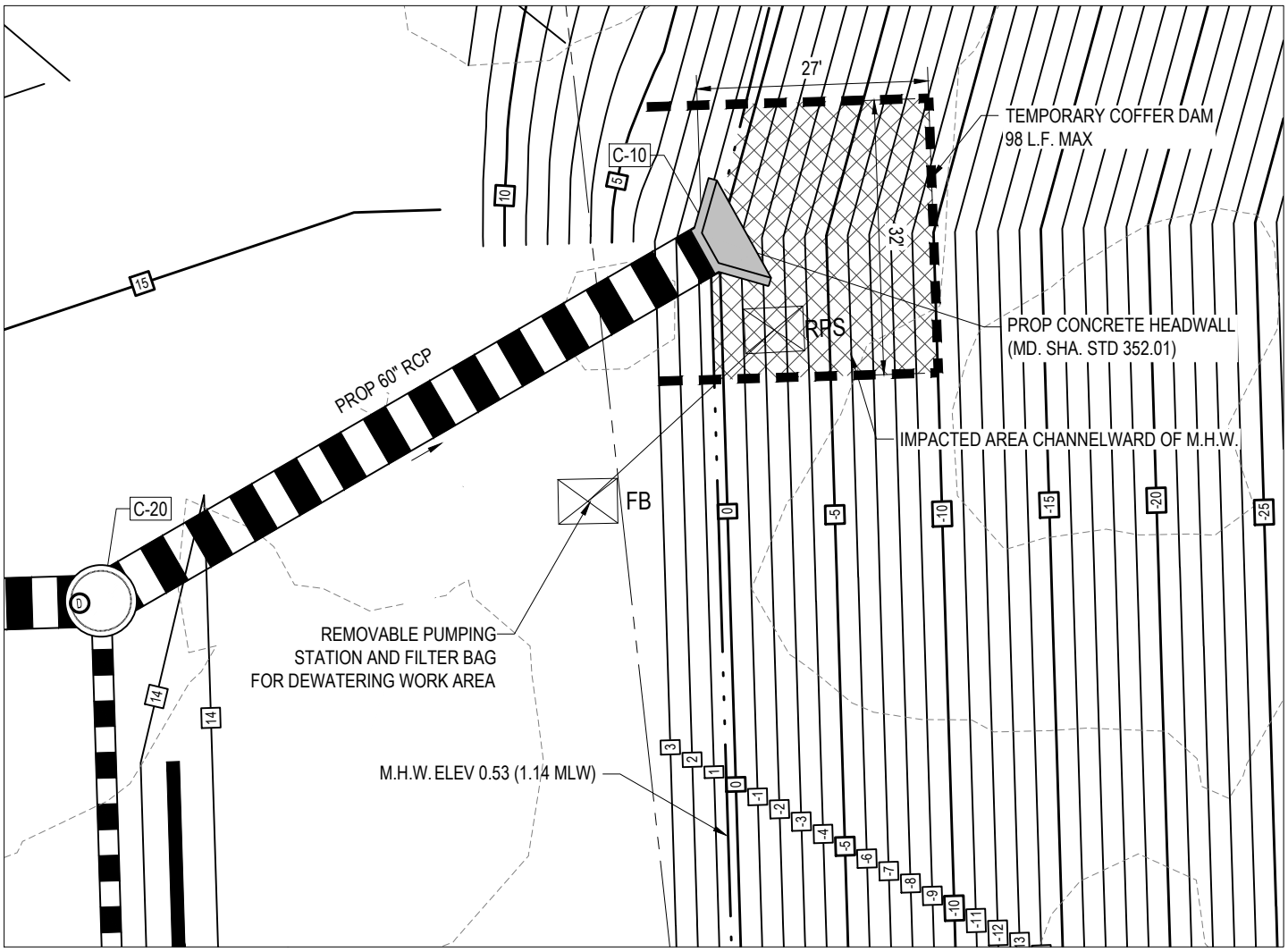
1/7/25 | DMD | MDA220013.03

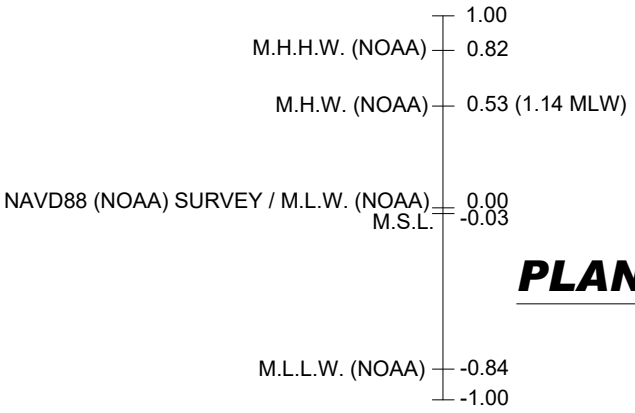
SPARROWS POINT
CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

50 25 12.5 0
1"= 50'





TOTAL IMPACTS CHANNELWARD OF M.H.W:
800 S.F. OR 0.018 AC.
98 L.F. OF TEMPORARY COFFER DAM

PLAN VIEW - OUTFALL 3

SCALE: 1" = 20'

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-CIVIL-EXHB-MDA220013.03----->LAYOUT: C-301 SITE

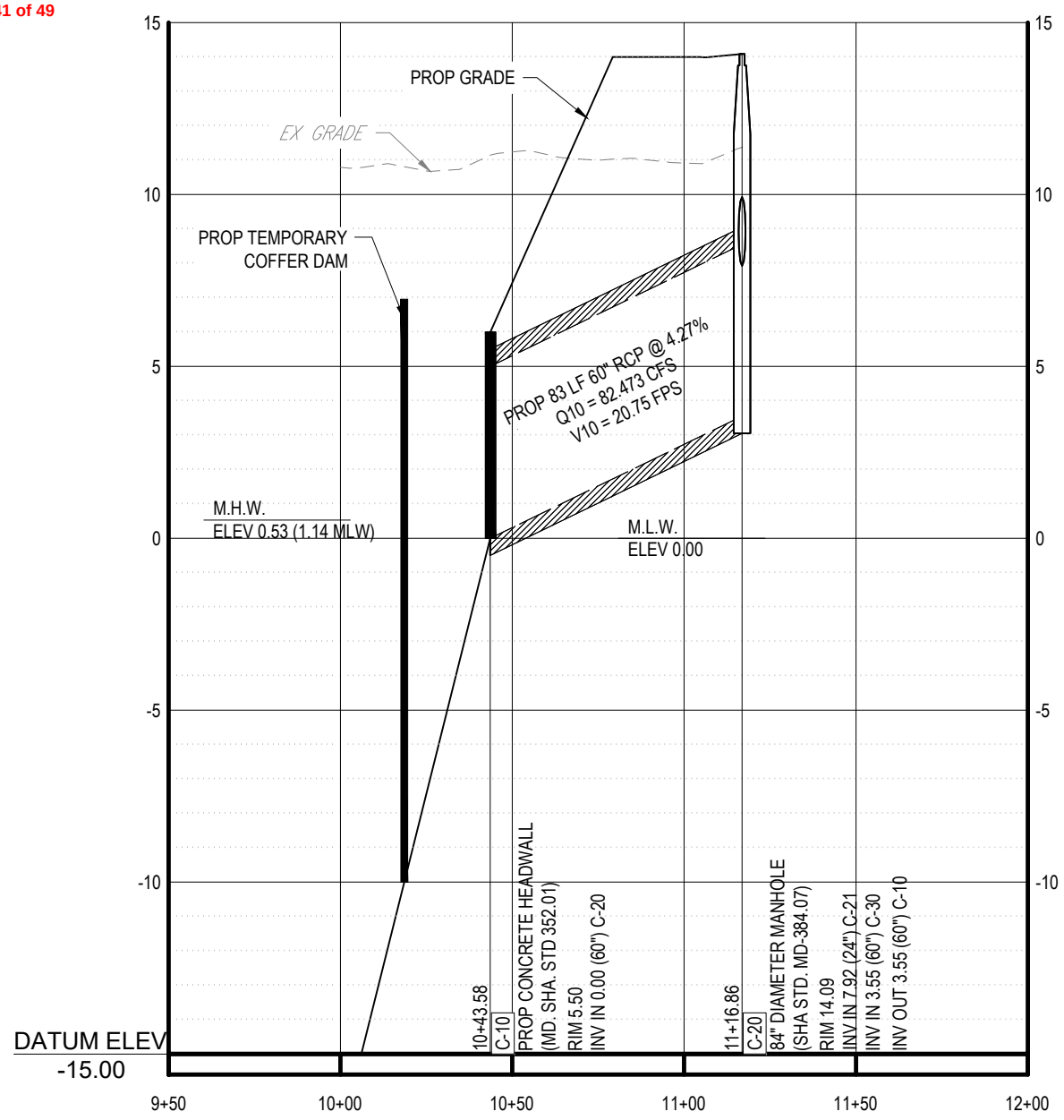
05/01/2025 | DMD | MDA220013.03

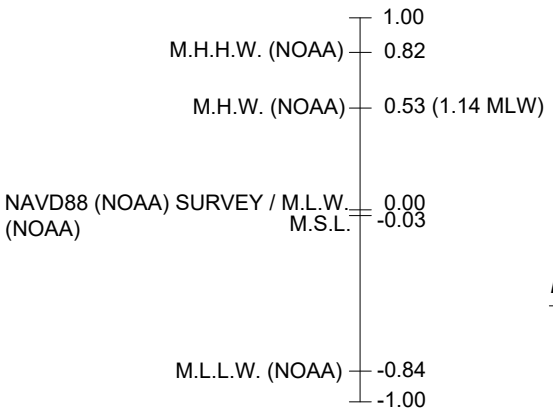
SPARROWS POINT CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

20 10 5 0
1"= 20'





PROPOSED OUTFALL 3

SCALE: 1" = 20'

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-C\VL-EXHB-MDA220013.03----->LAYOUT: C-301 SITE (2)

05/01/2025 | DMD | MDA220013.03

SPARROWS POINT CONTAINER TERMINAL

BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

50 25 12.5 0
1"= 50'

SWM OUTFALLS IMPACT SUMMARY TABLE	
QUANTITY OF TEMPORARY OUTFALLS (EA)	0
QUANTITY OF PERMANENT OUTFALLS (EA)	3
EXTENT OF OUTFALLS CHANNELWARD OF MHWL (SF)	65 L.F.
LENGTH X WIDTH OF PIPE AND/OR ASSOCIATED STONE STRUCTURE X # OF OUTFALLS (SF)	OUTFALL #1: 60" DIAMETER OUTFALL, WITH 15'X20' STONE, 20' CHANNELWARD OF MHWL. OUTFALL #2: 60" DIAMETER OUTFALL, WITH 15'X20' STONE, 15' CHANNELWARD OF MHWL. OUTFALL #3: 60" DIAMETER OUTFALL, 30' CHANNELWARD OF MHWL.

Outfall 1			
Max Length	**28.5**	LF	
Max Width	**32.9**	LF	
Total Area Channelward of MHWL	**626**	SF	
Max. Channelward Encroachment =	**20**	LF	
Max. Temporary Impact (Including within the Cofferdam) =	**872**	SF	
Outfall 2			
Max Length	**22.5**	LF	
Max Width	**33**	LF	
Total Area	**280**	SF	
Max. Channelward Encroachment =	**23**	LF	
Max. Temporary Impact (Including within the Cofferdam) =	**743**	SF	
Outfall 3			
Max Length	**27**	LF	
Max Width	**32**	LF	
Total Area	**800**	SF	
Max. Channelward Encroachment =	**98**	LF	
Max. Temporary Impact (Including within the Cofferdam) =	**864**	SF	NOTE: Impact is within the impact area already accounted for for the revetment

H:\2022\MDA220013.03\CAD\DRAWINGS\EXHIBITS\OUTFALL EXHIBIT\P-CIVL-EXHB-MDA220013.03----->LAYOUT: IMPACT SUMMARY

SPARROWS POINT CONTAINER TERMINAL

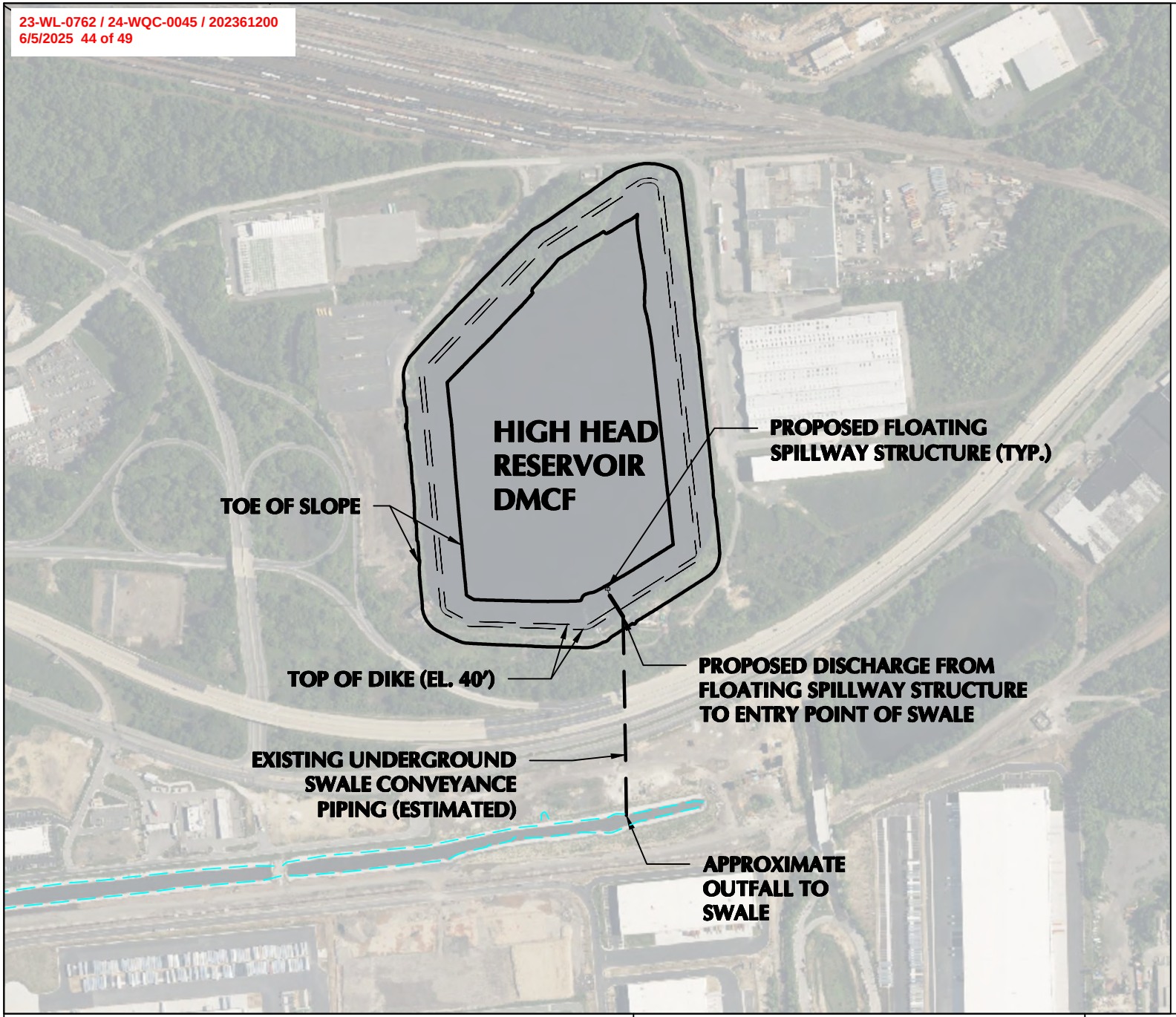
BOHLER
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7987
MD@BohlerEng.com

TRADEPOINT ATLANTIC
BALTIMORE, MD 21219

N

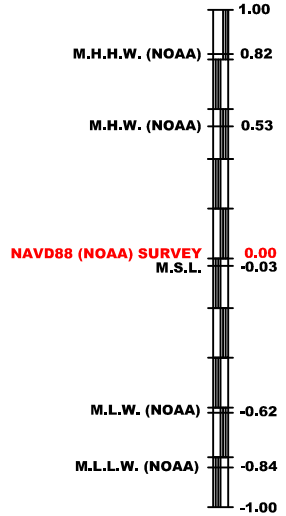
50 25 12.5 0
1"= 50'


High Head Industrial Basin DMCF
Placement Area
Outer Edge of Dike
High Head Industrial Basin DMCF Effluent Pipeline
Offshore Diffuser Area
Baltimore Harbor Channels (Federal Navigation Channels)
Sparrows Point Channel
Tradepoint Atlantic Property
23-WL-0762 / 24-WQC-0045 / 202361200
6/5/2025 43 of 47
High Head Industrial Basin DMCF
Offshore Diffuser Area
High Head Industrial Basin DMCF Outfall
High Head Industrial Basin DMCF Effluent Pipeline
Sparrows Point Country Club
Peninsula Expy
Wire Mill Rd
Grays Rd
N Point Blvd
Dundalk Ave
Bethlehem Blvd
Bear Creek
Trade Point Ave
Sparrows Point Blvd
Wharf Rd
Canal Rd
Mardigian Rd
Old Road Bay
Litol Rd
Ore Pier Rd
Brewerton Angle
Brewerton Channel
Patapsco River
695
157
151
0
0.5
Miles



NOTES:
1. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). A CONVERSION SCALE IS SHOWN ON THIS DRAWING TO CONVERT TO OTHER DATUMS.

Dredged Material Capacity
High Head Reservoir DMCF
1,700,000 CY



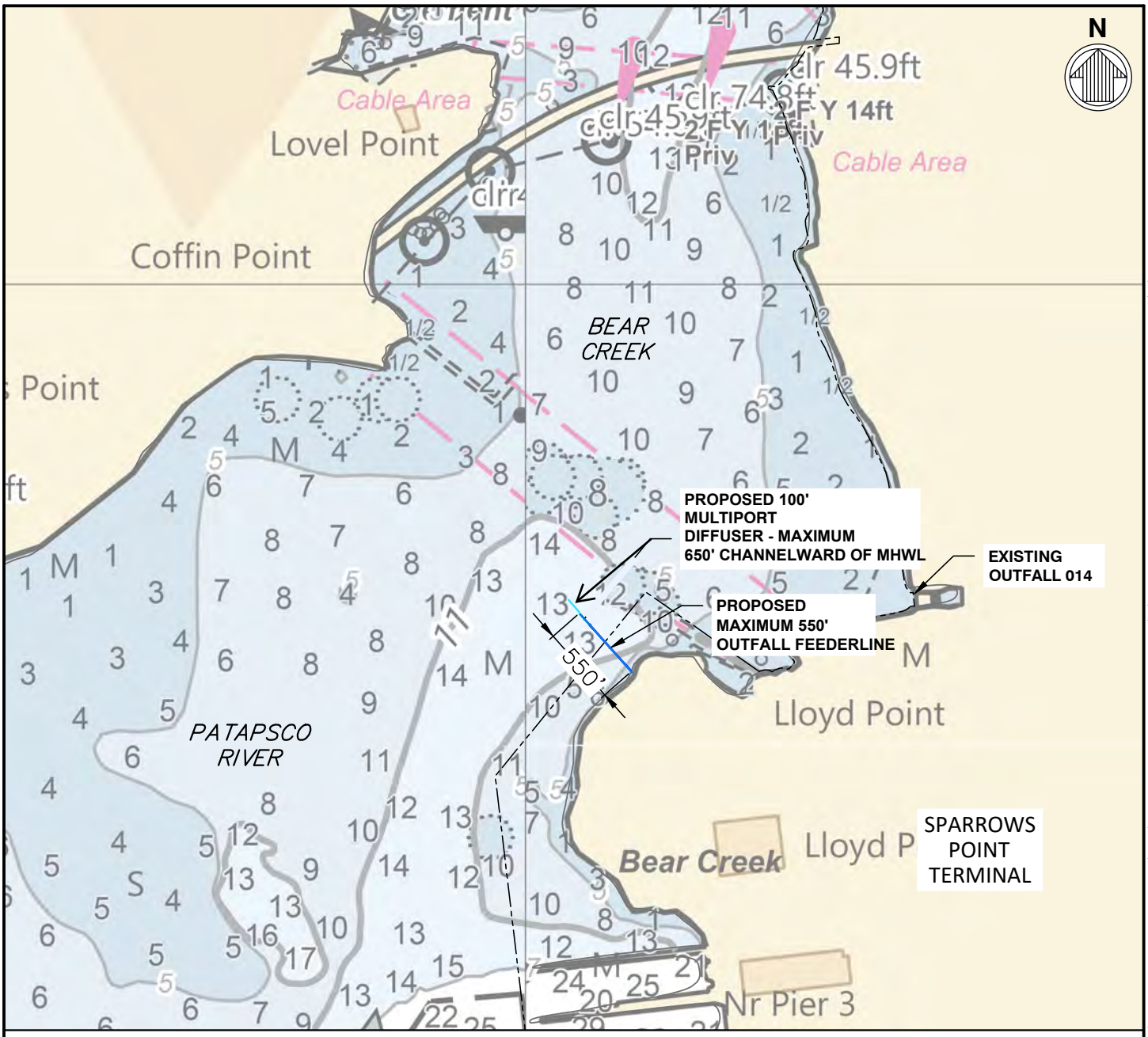
HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - HIGH HEAD RESERVOIR DMCF

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/02/2025		ATR	ATR				DM102

SHEET SIZE: A



PLAN – OUTFALL FEEDERLINE AND MULTIPORT DIFFUSER

NOTES

1. TEMPORARY OUTFALL WITH DIFFUSER INSTALLED DURING DREDGED MATERIAL PLACEMENT AND DEWATERING.
2. EXISTING DEPTHS SHOWN IN FEET BASED ON CUSTOM CHART RENDERED FROM NOAA ELECTRONIC NAVIGATIONAL CHART DATA.
3. SEE NEXT SHEET FOR SECTION VIEW.

APPLICATION BY:
TRADEPOINT ATLANTIC
6995 BETHLEHEM BLVD.
BALTIMORE, MARYLAND 21219

HIGH HEAD INDUSTRIAL BASIN DMCF OUTFALL AND DIFFUSER

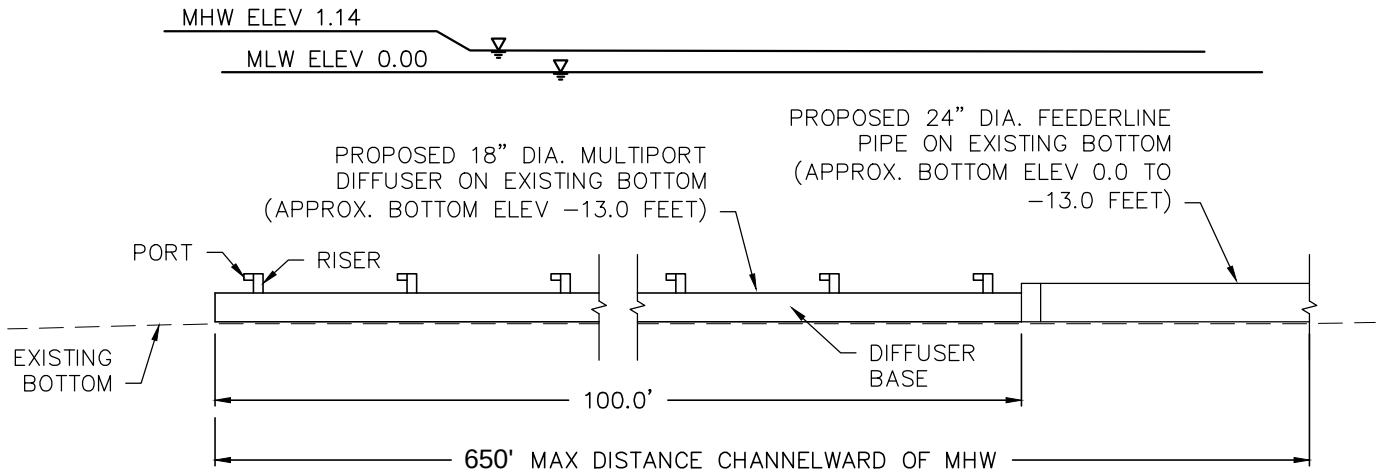
PROJECT LOCATION:
PATAPSCO RIVER / BEAR CREEK
BALTIMORE COUNTY, MARYLAND

0 1000' 2000'
1"=1000'

DATE: JUN 4, 2025

SHEET OF

File: I:\2017\17-082-012 TPA Dredge Permitting Support PO 3834\003 HH DMCF Diffuser JPA\CAD\HH Diffuser-P001-B; Plotted: 6/5/2025 10:31 AM by PAUL NEVENGLOSKY; Saved: 6/5/2025 10:27 AM by PNEVENGLOSKY



SECTION – OUTFALL FEEDERLINE AND MULTIPORT DIFFUSER

NOTES

1. FEEDERLINE AND DIFFUSER TO BE SECURED TO BOTTOM USING STRAPS/CLAMPS AND ANCHORS.

APPLICATION BY: TRADEPOINT ATLANTIC 6995 BETHLEHEM BLVD. BALTIMORE, MARYLAND 21219	HIGH HEAD INDUSTRIAL BASIN DMCF OUTFALL AND DIFFUSER PROJECT LOCATION: PATAPSCO RIVER / BEAR CREEK BALTIMORE COUNTY, MARYLAND	0 10' 20' 1"=10' DATE: JUN 4, 2025 SHEET OF

NOTES:

1. THE COX CREEK DREDGED MATERIAL CONTAINMENT FACILITY (DMCF) IS OPERATED BY THE MARYLAND PORTS ADMINISTRATION (MPA) AS PART OF THE DREDGED MATERIAL MANAGEMENT PROGRAM.
2. ANY DREDGED MATERIAL TO BE DISPOSED AT COX CREEK REQUIRES THE ASSOCIATED ANALYTICAL TESTING, SAMPLING, AND APPROVALS IN ACCORDANCE WITH THE MPA REQUIREMENTS.
3. APPROVED PLACEMENT VOLUMES FOR DISPOSAL OF DREDGED MATERIAL AT MPA FACILITIES ARE LISTED IN THE TABLE BELOW. VOLUMES SHOWN ARE THE MAXIMUM COMBINED VOLUME FOR DISPOSAL AT THE COX CREEK AND MASONVILLE DMCFS.
4. ONCE THE DREDGED MATERIAL SCOW IS SECURED AT COX CREEK, THE MPA WILL BE RESPONSIBLE FOR PUMPING, REMOVING, AND PLACING THE DREDGED SEDIMENTS INTO THE COX CREEK DMCF. MPA WILL ALSO BE RESPONSIBLE FOR MAINTAINING THE COX CREEK DMCF, AND THE DREDGED MATERIALS PLACED AT THE DMCF.

MPA Placement (Cox Creek and/or Masonville DMCF)	
FY 2026	350,000 CY
FY 2027	200,000 CY
FY 2028	400,000 CY
FY 2029	300,000 CY
TOTAL	**1,250,000 CY**

0 500 1000 1500 2000

1"=1000'-0" SCALE IN FEET

HATCH

SPARROWS POINT CONTAINER TERMINAL

PLAN - MPA COX CREEK DMCF

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
01/07/2025		ATR	ATR				DM103

SHEET SIZE: A

NOTES:

1. THE MASONVILLE DREDGED MATERIAL CONTAINMENT FACILITY (DMCF) IS OPERATED BY THE MARYLAND PORTS ADMINISTRATION (MPA) AS PART OF THE DREDGED MATERIAL MANAGEMENT PROGRAM.
2. ANY DREDGED MATERIAL TO BE DISPOSED AT MASONVILLE REQUIRES THE ASSOCIATED ANALYTICAL TESTING, SAMPLING, AND APPROVALS IN ACCORDANCE WITH THE MPA REQUIREMENTS.
3. APPROVED PLACEMENT VOLUMES FOR DISPOSAL OF DREDGED MATERIAL AT MPA FACILITIES ARE LISTED IN THE TABLE BELOW. VOLUMES SHOWN ARE THE MAXIMUM COMBINED VOLUME FOR DISPOSAL AT THE COX CREEK AND MASONVILLE DMCFS.
4. ONCE THE DREDGED MATERIAL SCOW IS SECURED AT MASONVILLE, THE MPA WILL BE RESPONSIBLE FOR PUMPING, REMOVING, AND PLACING THE DREDGED SEDIMENTS INTO THE COX CREEK DMCF. MPA WILL ALSO BE RESPONSIBLE FOR MAINTAINING THE COX CREEK DMCF, AND THE DREDGED MATERIALS PLACED AT THE DMCF.

MPA Placement (Cox Creek and/or Masonville DMCF)	
FY 2026	350,000 CY
FY 2027	200,000 CY
FY 2028	400,000 CY
FY 2029	300,000 CY
TOTAL	**1,250,000 CY**

0 400 800 1200 1600

1"=800'-0" SCALE IN FEET

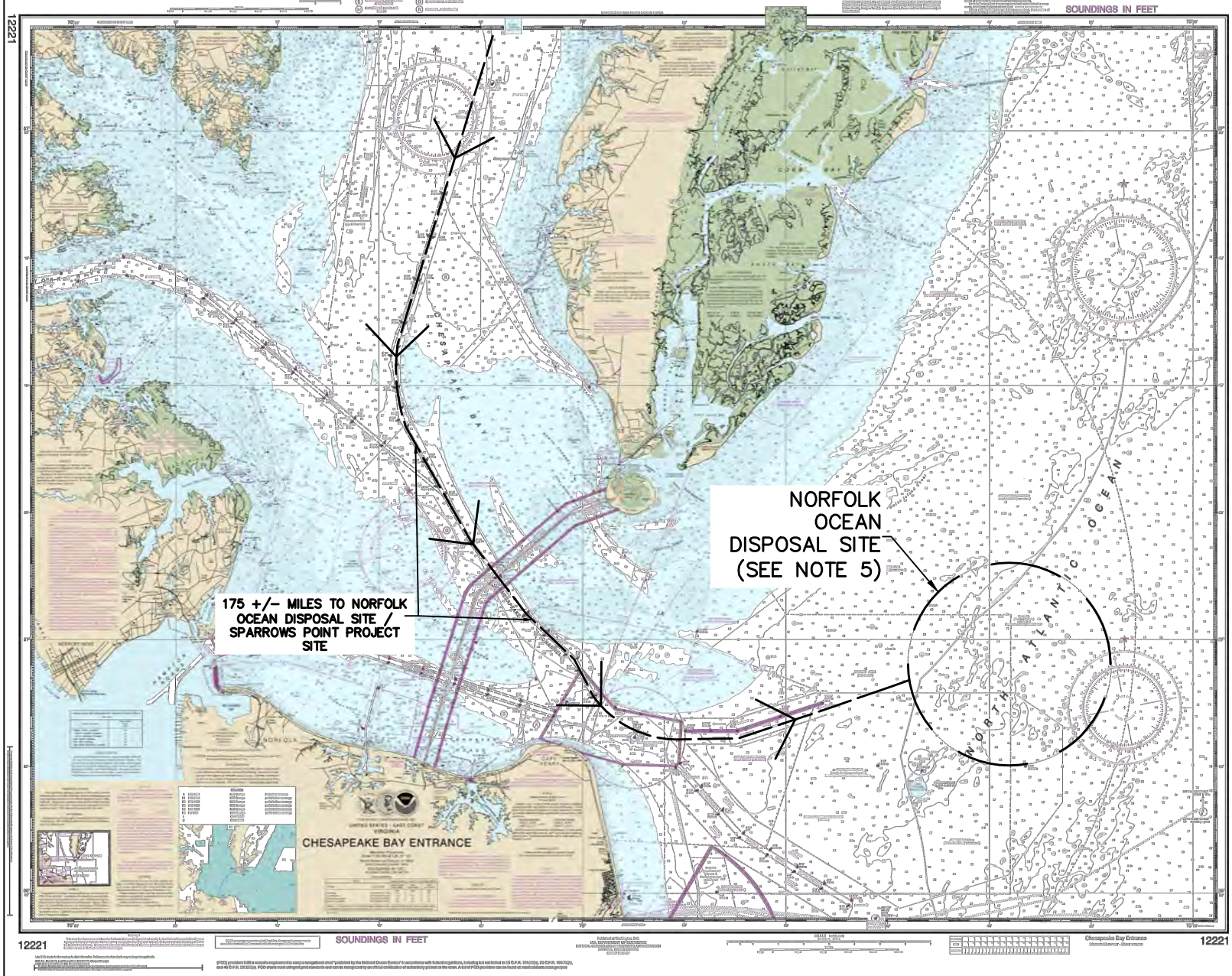
HATCH

SPARROWS POINT CONTAINER TERMINAL

PLAN - MPA
MASONVILLE DMCF

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
01/07/2025		ATR	ATR				DM104

SHEET SIZE: A



NOTES:

1. THE NORFOLK OCEAN DISPOSAL SITE (NODS) IS MANAGED BY UNITED STATES ARMY CORPS OF ENGINEERS (USACE).
2. DREDGED MATERIAL DISPOSAL AT NODS IS SUBJECT TO THE PERMIT REGULATIONS SPECIFIED BY THE USACE. SEDIMENT SAMPLING AND ANALYTICAL TESTING OF THE DREDGED SEDIMENTS FOR OFFSHORE DISPOSAL AT NODS IS REQUIRED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS, AND ALL MATERIAL BEING TRANSPORTED TO NODS MUST BE APPROVED AND MANAGED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS.
3. TRANSPORT OF DREDGED MATERIAL FROM THE PROJECT SITE TO NODS MAY REQUIRE REMOTE MONITORING OR MANNED SPOTTERS, AS DEFINED BY THE USACE PERMIT.
4. ANY LOSS OF DREDGED MATERIAL DURING TRANSPORT FROM THE PROJECT SITE TO NODS SHALL BE REPORTED TO THE USACE AND OTHER PARTIES AS SPECIFIED IN THE USACE PERMIT.
5. NODS EXTENTS SHOWN ARE APPROXIMATE AND BASED ON NOAA NAUTICAL CHART 12221. DREDGED MATERIAL PLACEMENT SHALL BE LOCATED IN ACCORDANCE WITH THE USACE PERMIT.

Dredged Material Capacity
Norfolk Ocean Disposal Site (NODS)
1,570,00 CY

HATCH LANGAN

SPARROWS POINT CONTAINER TERMINAL

PLAN - NORFOLK OCEAN DISPOSAL SITE (NODS)

DATE	PROJECT NUMBER	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT MGR.	SHEET NUMBER	DRAWING
05/21/2025		ATR	ATR				DM105

SHEET SIZE: A