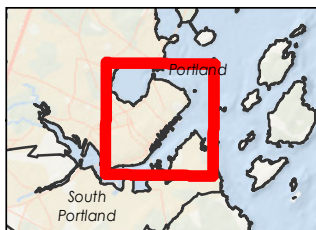


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- Legend**
- Proposed Dredge Footprint
 - Proposed CAD Cell Footprint

0 2,000 Feet
 (At original document size of 8.5x11)
 1:24,000

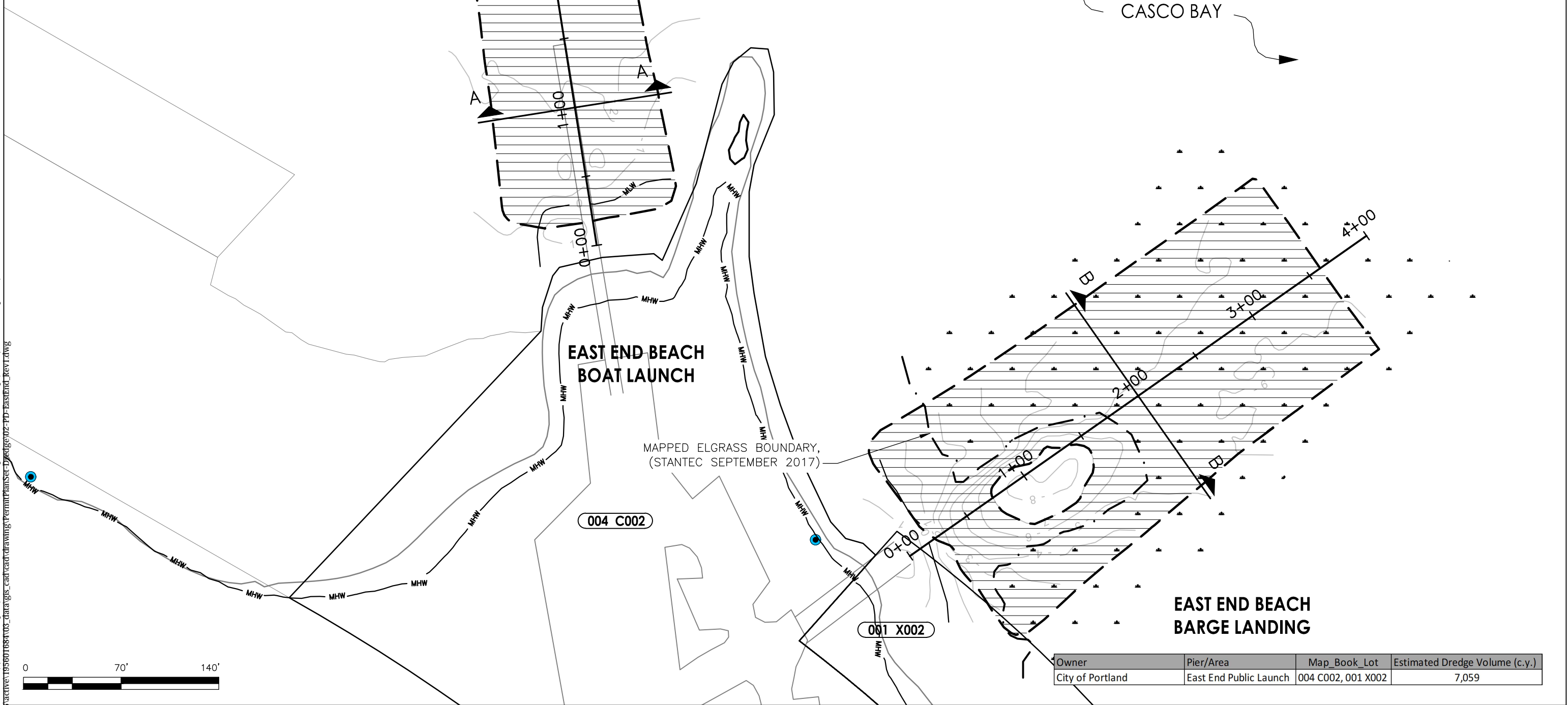
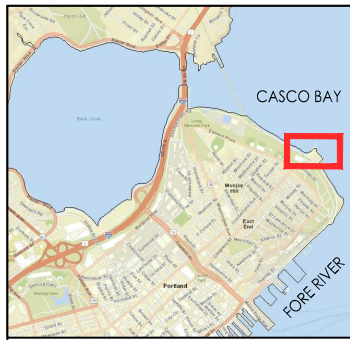


Project Location: Portland, Maine Prepared by KWH on 2019-04-25
 TR by MPJ on 2019-04-26

Client/Project: Portland Harbor Commission 195601684
 Portland Harbor Dredge Project

Figure No. 1
 Title: Harbor Overview **DRAFT**

Notes
 1. Coordinate System: NAD 1983 StatePlane Maine West FIPS 1802 Feet
 2. Aerial Orthophoto Basemap: 2013 Casco Bay Orthoimagery dataset (<https://gis.maine.gov/arcgis/services>).



| Owner | Pier/Area | Map_Book_Lot | Estimated Dredge Volume (c.y.) |
|------------------|------------------------|--------------------|--------------------------------|
| City of Portland | East End Public Launch | 004 C002, 001 X002 | 7,059 |

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NOTES:

1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC, BETWEEN NOVEMBER 29 AND DECEMBER 1, 2016, UNLESS OTHERWISE NOTED.
2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. CORRECTION FROM NAVD88 TO MLLW IS 5.25' FOR CASCO BAY.
3. ELEVATION ASSUMPTIONS WERE MADE TO THE EXISTING BATHYMETRIC SURFACES WHERE ELEVATION DATA WAS MISSING TO COMPLETE PROPOSED DREDGE AREA FOOTPRINTS. RESULTS IN THOSE AREAS ARE APPROXIMATE.
4. A 1' OVERDREDGE HAS BEEN APPLIED TO EACH PROPOSED DREDGE AREA.
5. PROPOSED DREDGE AREAS INCLUDE 3:1 SIDE SLOPES EXCEPT WHERE THEY PARALLEL EXISTING PIERS OR ALONG ROCK FACED SHORELINES. IN THOSE CASES, A STRAIGHT CUT EDGE WAS APPLIED.
6. APPROXIMATE MEAN LOW WATER LINE (EL. 0.35' MLLW) DERIVED FROM EXISTING BATHYMETRY SURVEY LIMITS AND MAY NOT BE SHOWN IN ALL AREAS. APPROXIMATE MEAN HIGH WATER LINE (EL. 9.51' MLLW) DERIVED FROM 2' USGS CONTOURS OBTAINED FROM THE MAINE OFFICE OF GIS. ACCURACY OF EACH LINE FEATURE VARIES BY LOCATION DUE TO VARIABLES SUCH AS OBSTRUCTIONS (E.G., VESSELS), SURVEY TIME OF YEAR, AND COLLECTION METHODS.

Legend

- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- APPROX. MEAN LOW WATER
- APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL
- EELGRASS BED

Client/Project
 Portland Harbor
 Commission
 Portland Harbor
 Dredge Project

Project No.
 195601684

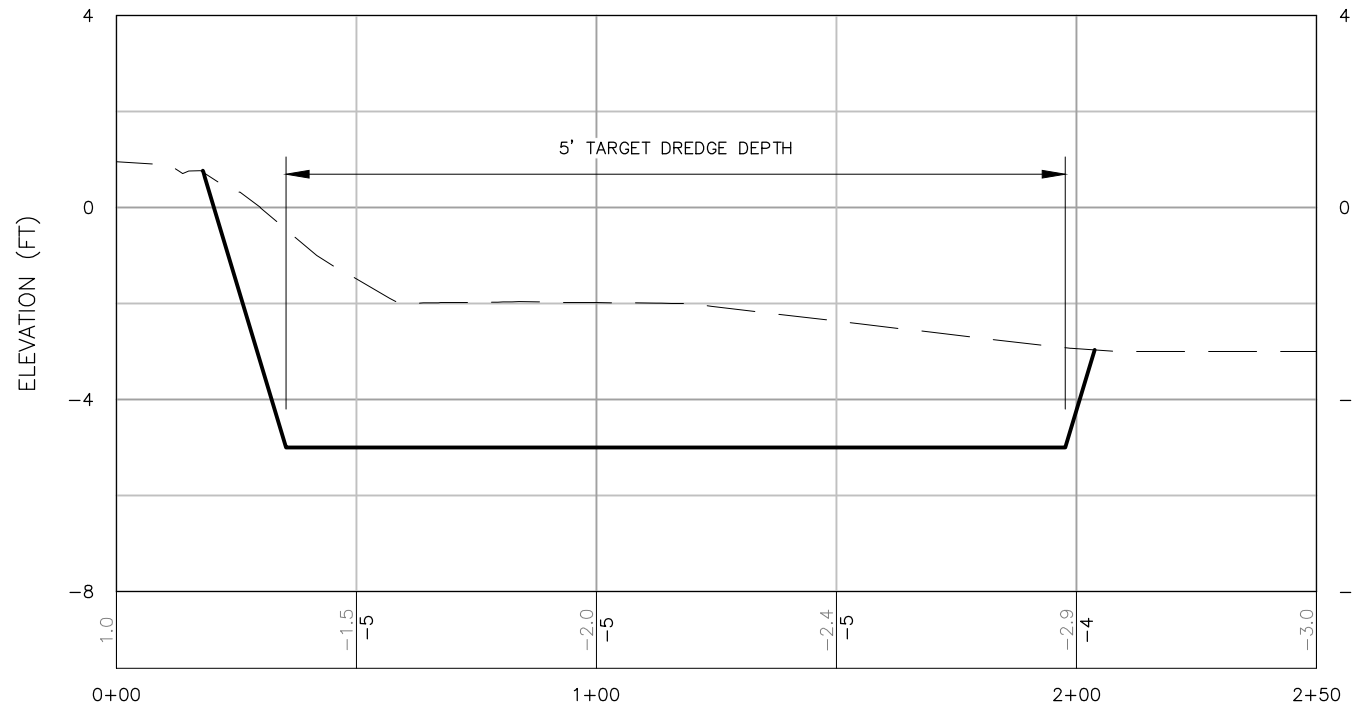
Title
 East End Beach
 Proposed Dredge
 Plan View

Revision _____ Date
 2019.11.13

Reference Sheet _____ Figure No.

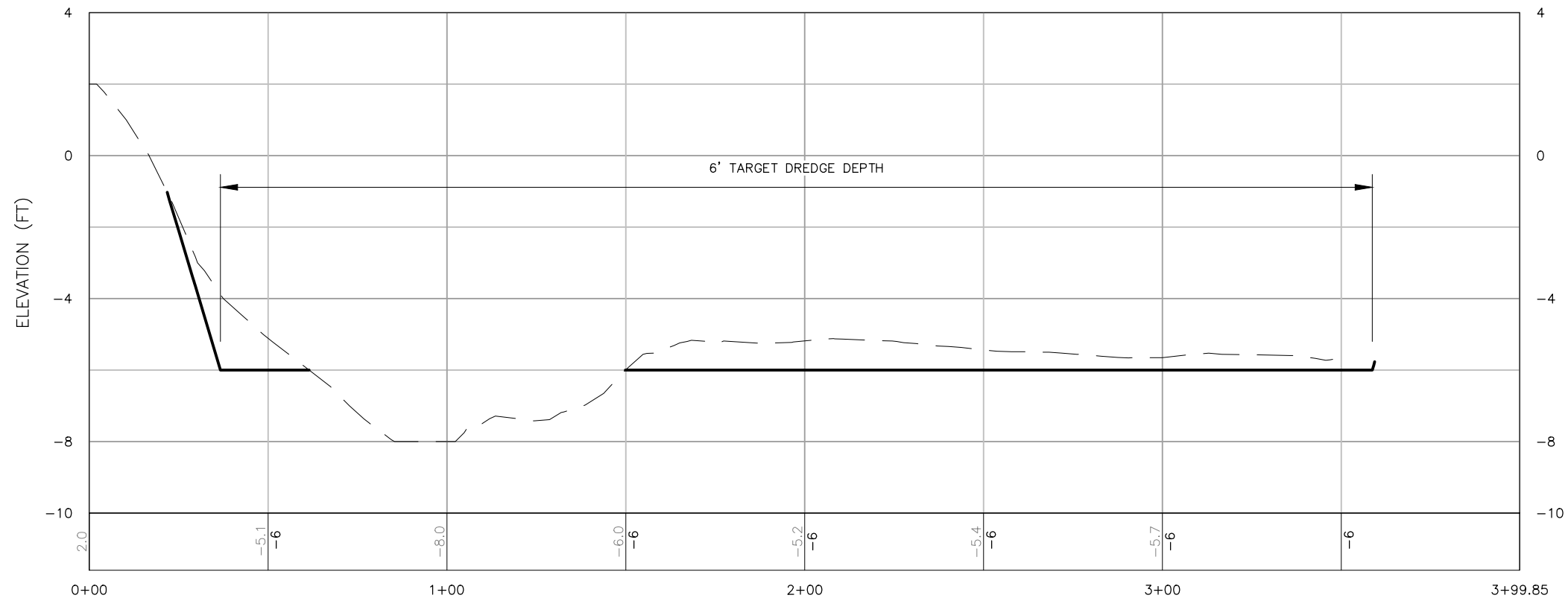
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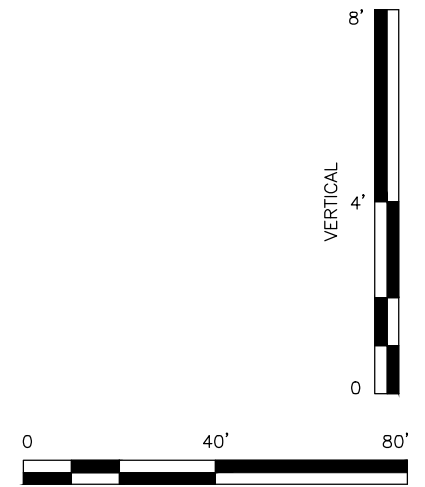
PROFILE(S) – EAST END BEACH BOAT LAUNCH

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



PROFILE(S) – EAST END BEACH BARGE LANDING

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



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Legend

- — — — — EXISTING BATHYMETRY
- PROPOSED TARGET DREDGE DEPTH

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.

195601684

Title

East End Beach
Proposed Dredge
Profiles

Revision

Reference Sheet

Date

2019.11.13

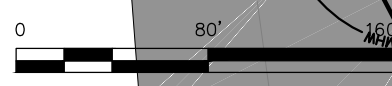
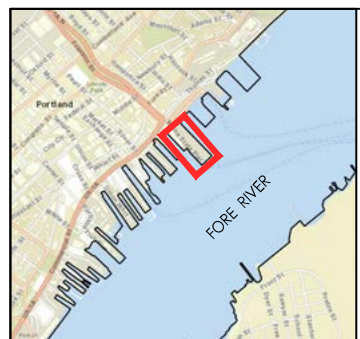
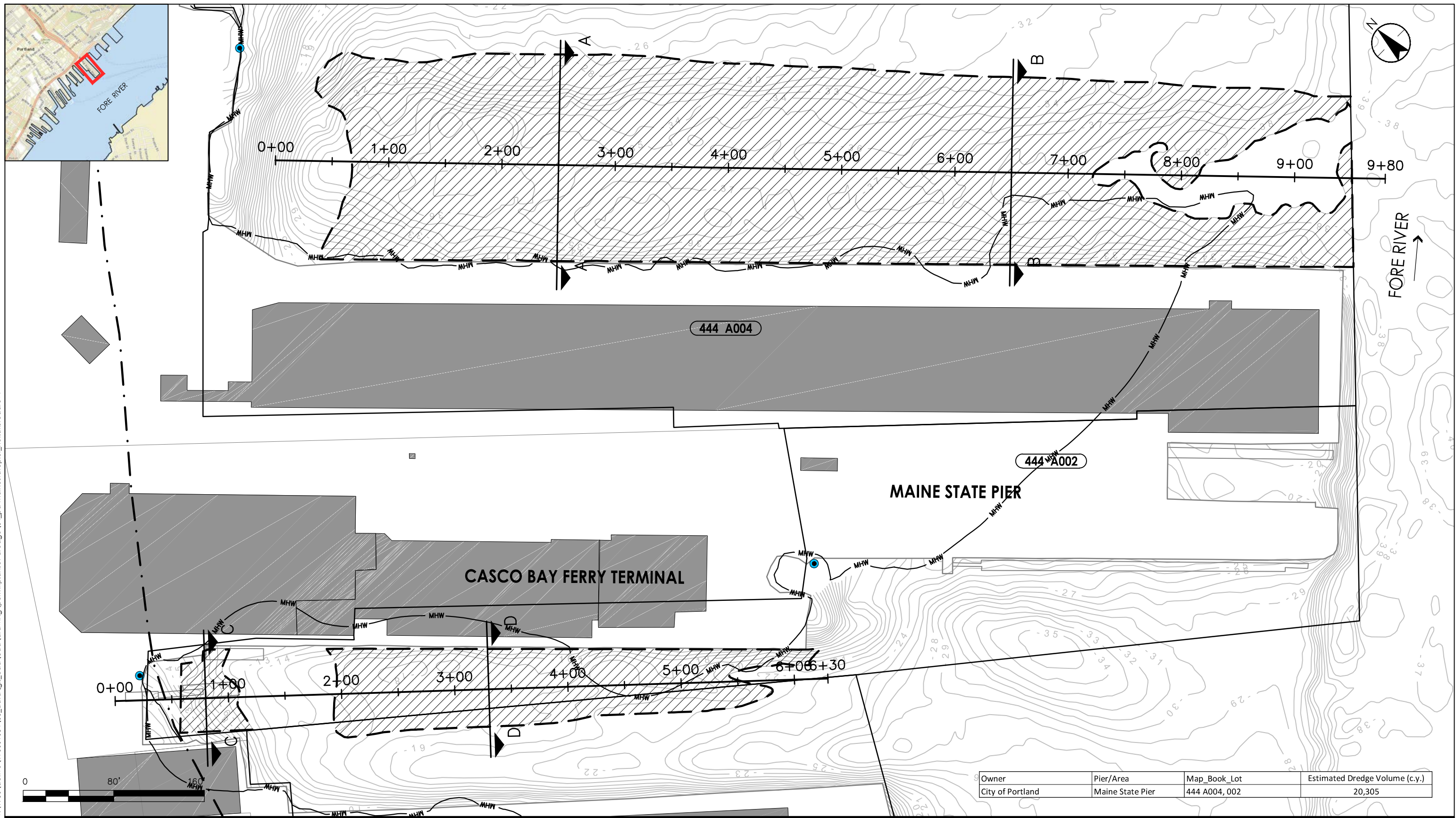
Figure No.



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NOVEMBER, 2019

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| Owner | Pier/Area | Map_Book_Lot | Estimated Dredge Volume (c.y.) |
|------------------|------------------|---------------|--------------------------------|
| City of Portland | Maine State Pier | 444 A004, 002 | 20,305 |

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Legend

- 2- 1' BATHYMETRY CONTOUR
- DREDGE AREA TAX MAP PARCEL LINE
- 030 H001 TAX MAP AND PARCEL NUMBER
- ESTIMATED DREDGE AREA
- EXISTING BUILDING/STRUCTURE
- APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
- MLW — APPROX. MEAN LOW WATER
- MHW — APPROX. MEAN HIGH WATER
- STORMWATER OUTFALL

Client/Project
Portland Harbor Commission
Portland Harbor Dredge Project

Project No.
 195601684

Title
Maine State Pier Proposed Dredge Plan View

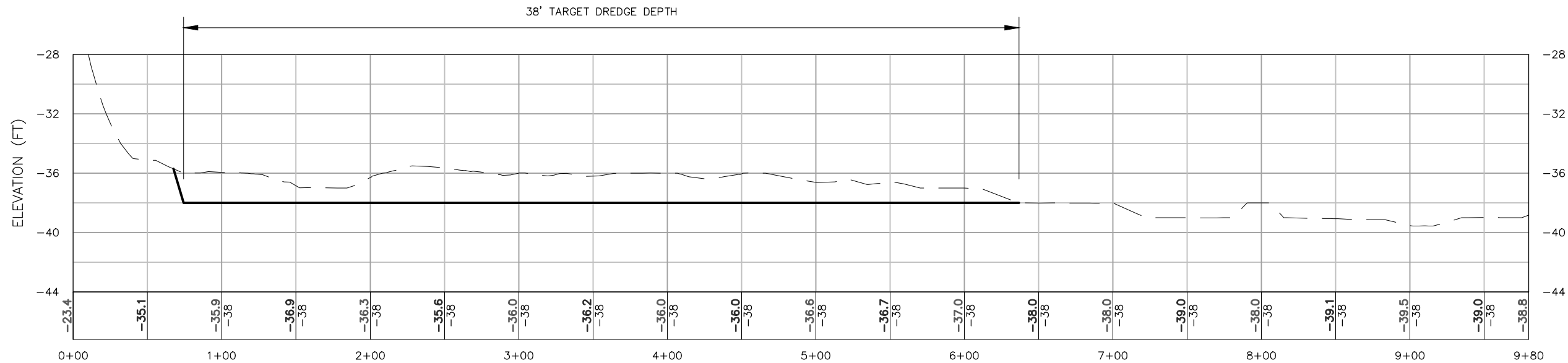
Revision _____ Date **2019.11.13**

Reference Sheet _____ Figure No. _____

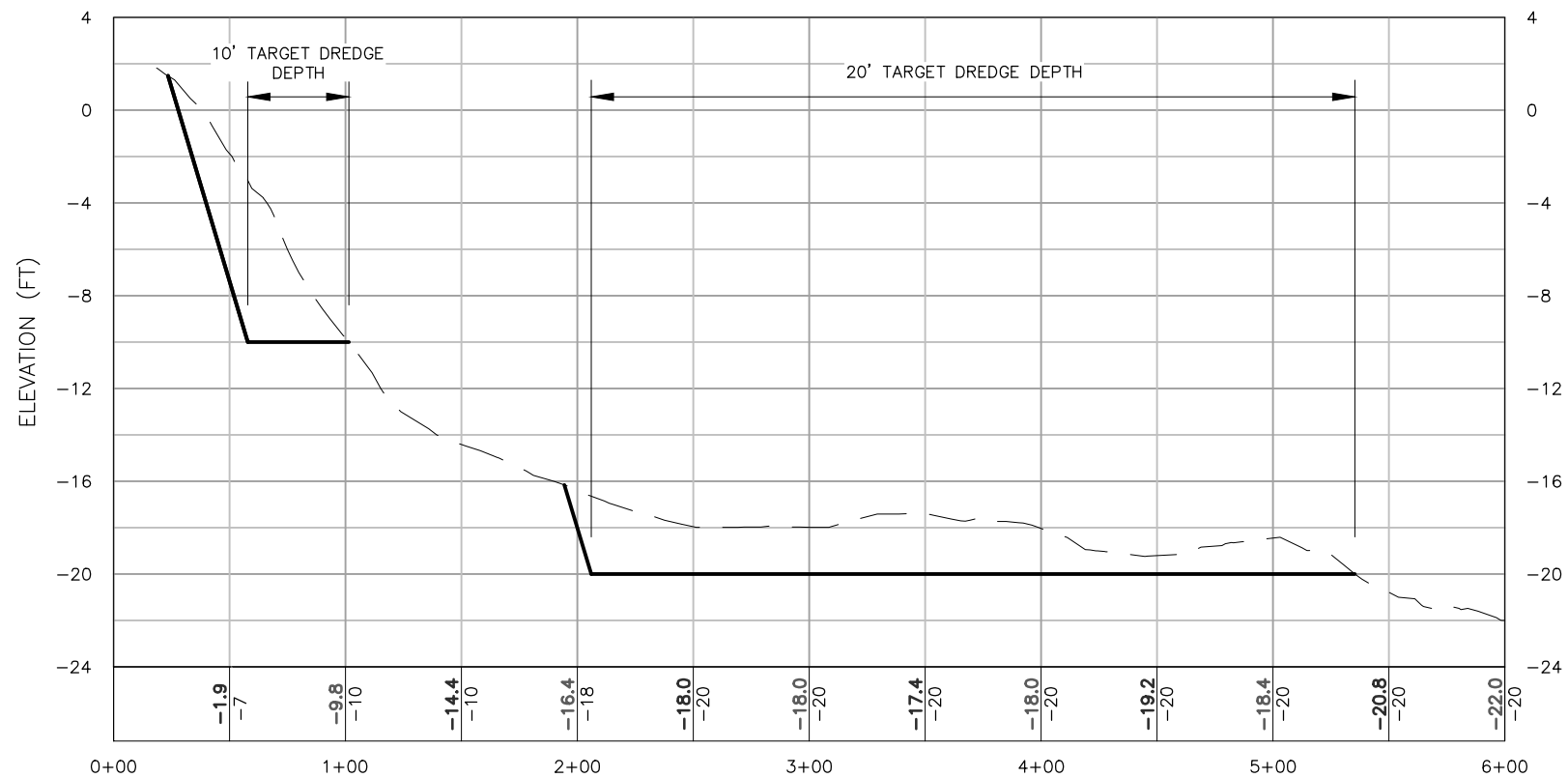
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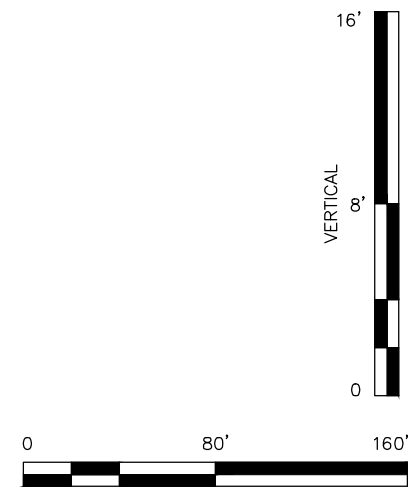
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PROFILE - MAINE STATE PIER (N)
 HORIZONTAL SCALE: 1"=80'
 VERTICAL SCALE: 1"=8'



PROFILE - MAINE STATE PIER (S)
 HORIZONTAL SCALE: 1"=80'
 VERTICAL SCALE: 1"=8'



NOTES:

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Legend

- - - - - EXISTING BATHYMETRY
- PROPOSED TARGET DREDGE DEPTH

Client/Project

Portland Harbor
 Commission
 Portland Harbor
 Dredge Project

Project No.

195601684

Title

Maine State Pier
 Proposed Dredge
 Profiles

Revision

Reference Sheet

Date

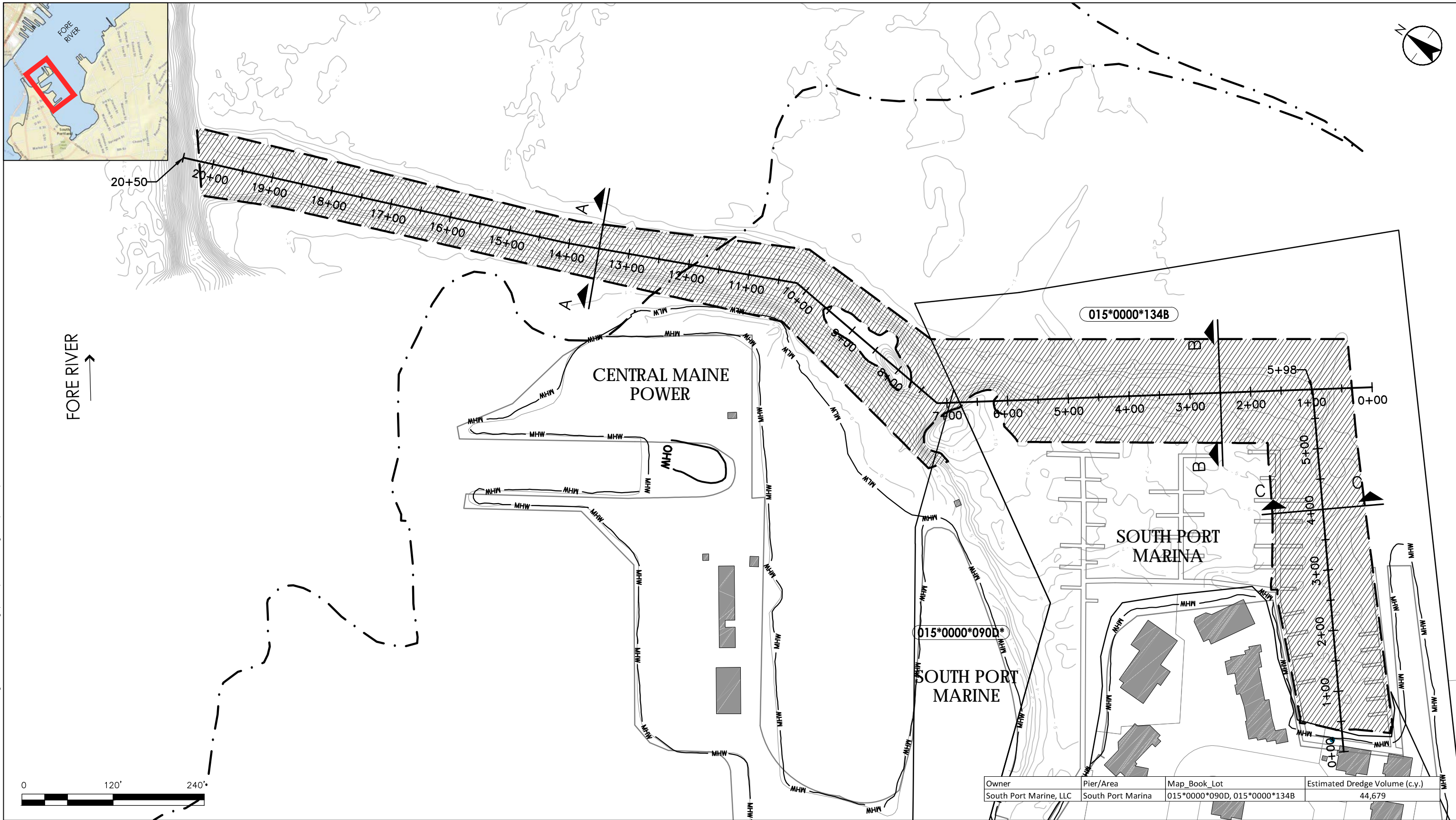
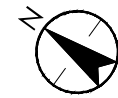
Figure No.

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| Owner | Pier/Area | Map_Book_Lot | Estimated Dredge Volume (c.y.) |
|------------------------|-------------------|------------------------------|--------------------------------|
| South Port Marine, LLC | South Port Marina | 015*0000*090D, 015*0000*134B | 44,679 |

- NOTES:**
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- Legend**
- - - 1' BATHYMETRY CONTOUR
 - DREDGE AREA TAX MAP PARCEL LINE
 - 030 H001 TAX MAP AND PARCEL NUMBER
 - ESTIMATED DREDGE AREA
 - EXISTING BUILDING/STRUCTURE
 - APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1833, 1866, OR 1870)
 - MLW — APPROX. MEAN LOW WATER
 - MHW — APPROX. MEAN HIGH WATER
 - STORMWATER OUTFALL

Client/Project
**Portland Harbor
 Commission
 Portland Harbor
 Dredge Project**

Project No.
 195601684

Title
**South Port Marina
 Proposed Dredge
 Plan View**

Revision _____ Date **2019.11.13**

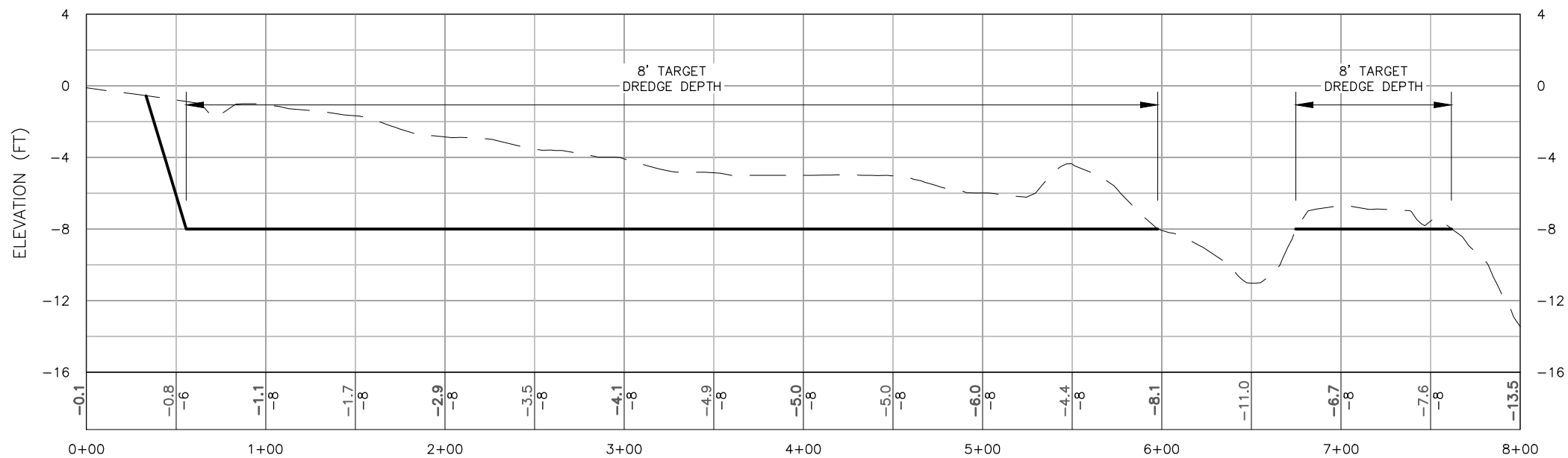
Reference Sheet _____ Figure No. _____

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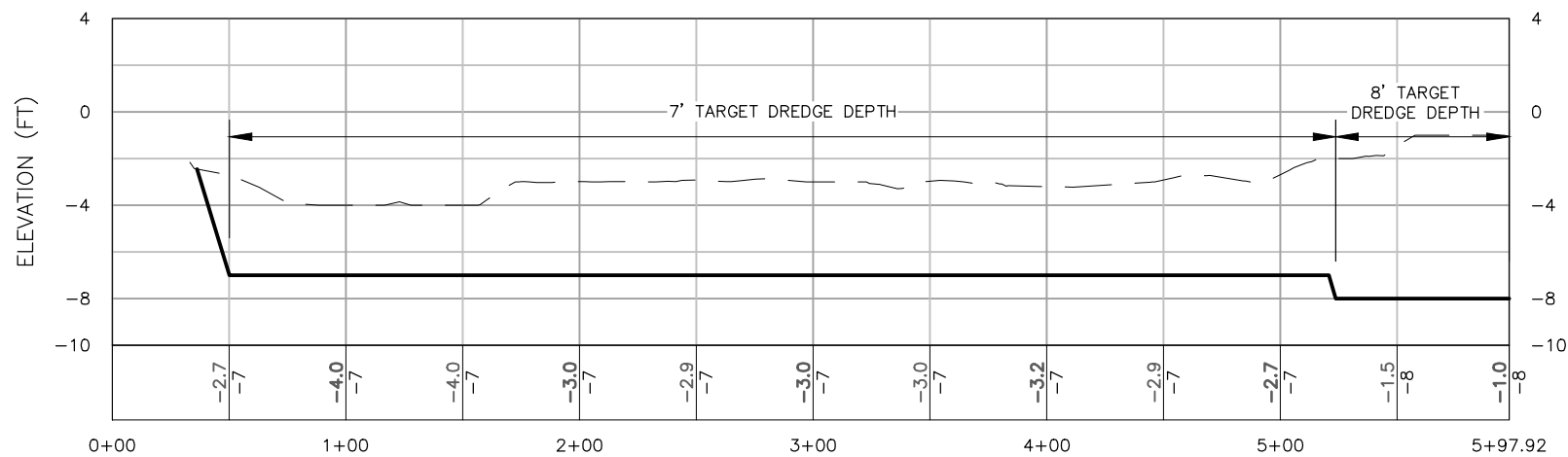
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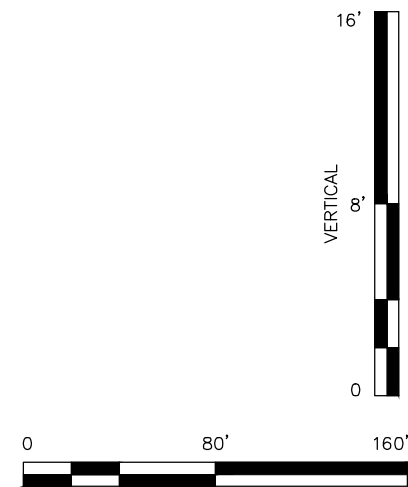
PROFILE - SOUTH PORT MARINA MAIN CHANNEL ENTRANCE CHANNEL

HORIZONTAL SCALE: 1"=80'
VERTICAL SCALE: 1"=8'



PROFILE - SOUTH PORT MARINA SOUTH CHANNEL

HORIZONTAL SCALE: 1"=80'
VERTICAL SCALE: 1"=8'



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Legend

- - - - - EXISTING BATHYMETRY
- PROPOSED TARGET DREDGE DEPTH

Client/Project

Portland Harbor
Commission
Portland Harbor
Dredge Project

Project No.

195601684

Title

South Port Marina
Proposed Dredge
Profiles

Revision

Reference Sheet

Date

2019.11.13

Figure No.



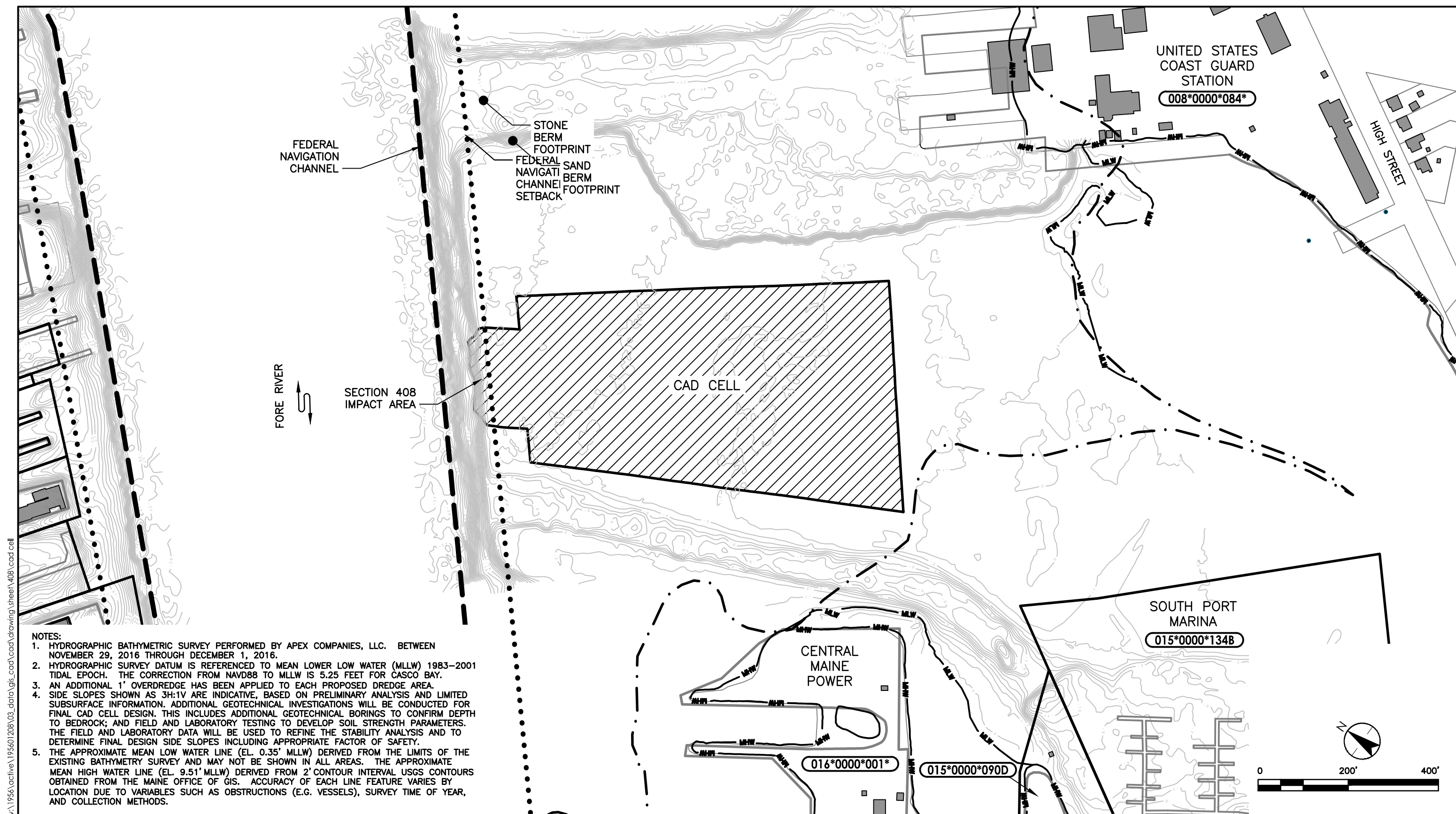
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- NOTES:**
1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC. BETWEEN NOVEMBER 29, 2016 THROUGH DECEMBER 1, 2016.
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| | |
|-----------|---|
| -2- | 1' BATHYMETRY CONTOUR |
| | ESTIMATED DREDGE AREA |
| --- | TAX MAP PARCEL LINE |
| | TAX MAP PARCEL NUMBER |
| - - - - - | APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1870) |
| MLW | APPROXIMATE MEAN LOW WATER |
| MHW | APPROXIMATE MEAN HIGH WATER |

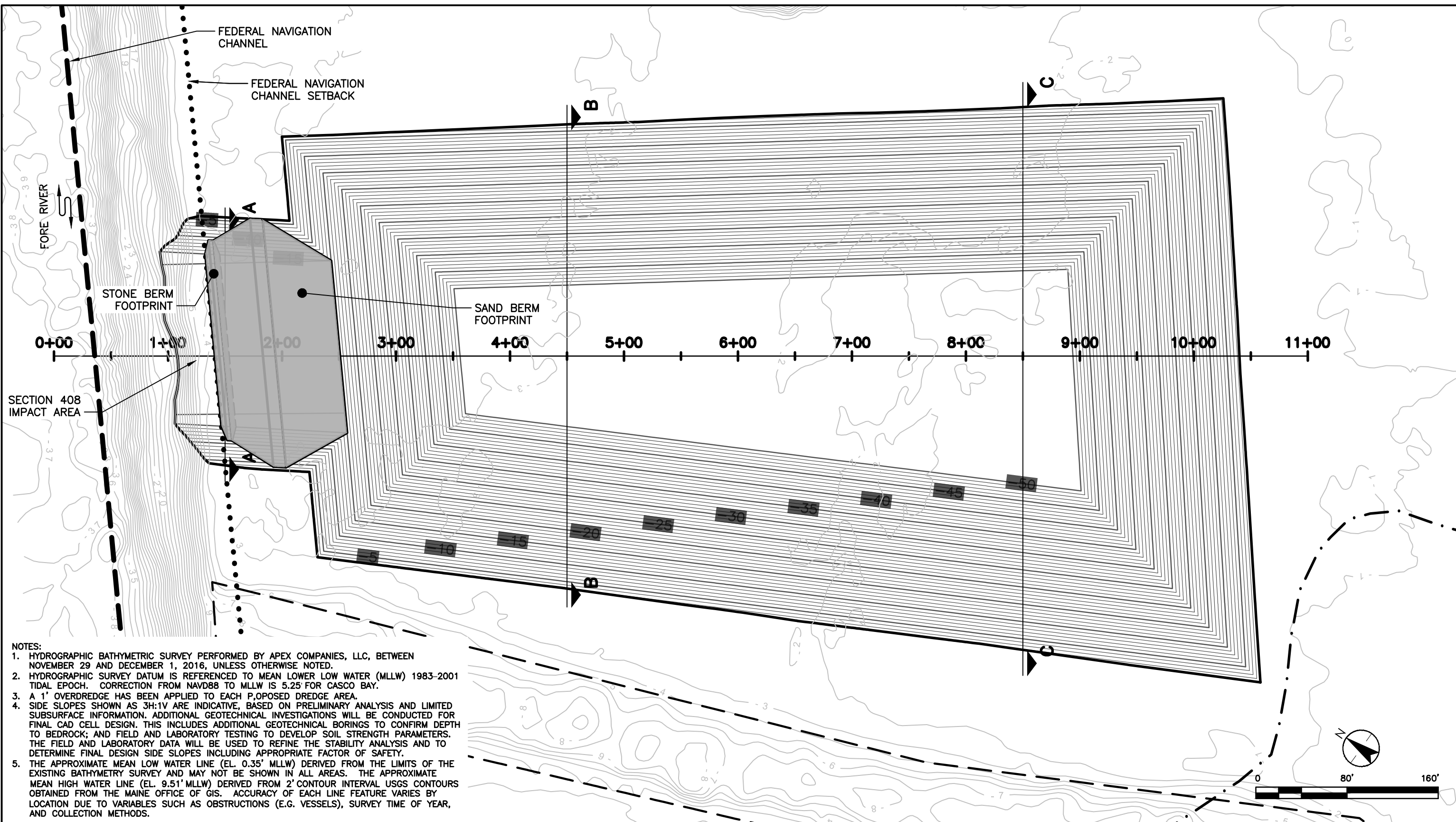
Client/Project
City of Portland
Portland Harbor
CAD Cell Project

Project No.
195601208

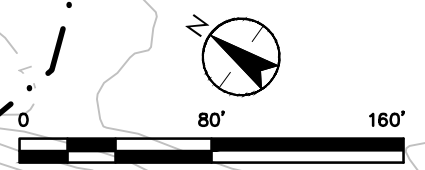
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| Title Proposed CAD Cell Plan | |
| Revision | Date 2020.07.10 |
| Reference Sheet | Figure No. 1 |

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| Legend | |
|--------|---|
| | 1' BATHYMETRY CONTOUR |
| | 1' PROPOSED DREDGE CONTOUR |
| | TAX MAP PARCEL LINE |
| | TAX MAP PARCEL NUMBER |
| | APPROXIMATE SUBMERGED LANDS REGULATORY LIMIT (1870) |
| | APPROXIMATE MEAN LOW WATER |
| | APPROXIMATE MEAN HIGH WATER |
| | BERM FOOTPRINT |

Client/Project
City of Portland
Portland Harbor
CAD Cell Project

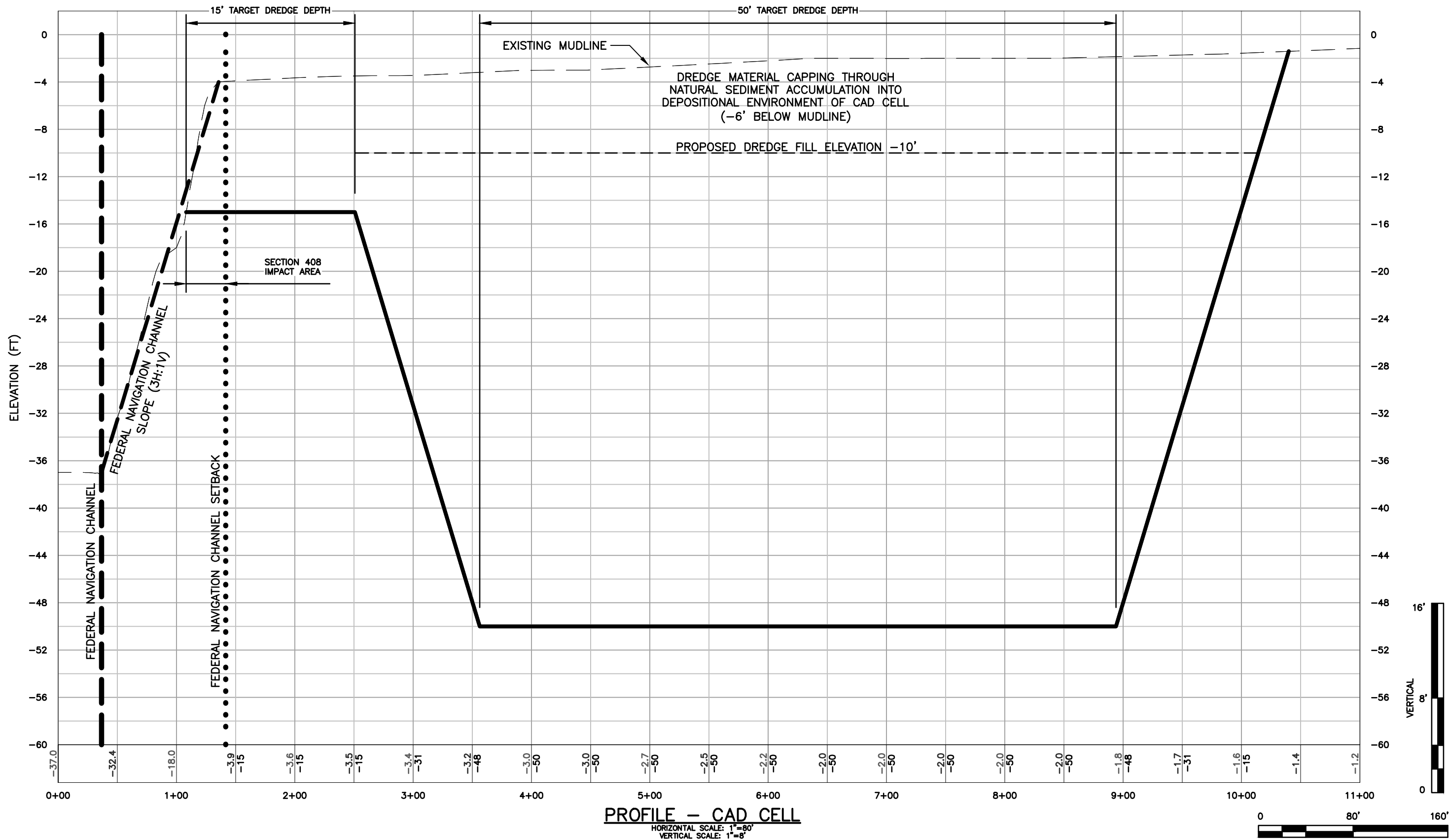
Project No.
195601208

Title
Proposed CAD Cell
Grading Plan

| | |
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| Revision | Date |
| | 2020.07.10 |
| Reference Sheet | Figure No. |
| | 2 |

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 www.stantec.com

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NOTES:

1. HYDROGRAPHIC BATHYMETRIC SURVEY PERFORMED BY APEX COMPANIES, LLC. BETWEEN NOVEMBER 29, 2016 THROUGH DECEMBER 1, 2016.
2. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) 1983-2001 TIDAL EPOCH. THE CORRECTION FROM NAVD88 TO MLLW IS 5.25 FEET FOR CASCO BAY.
3. AN ADDITIONAL 1' OVERDREDGE HAS BEEN APPLIED TO EACH PROPOSED DREDGE AREA.
4. SIDE SLOPES SHOWN AS 3H:1V ARE INDICATIVE, BASED ON PRELIMINARY ANALYSIS AND LIMITED SUBSURFACE INFORMATION. ADDITIONAL GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED FOR FINAL CAD CELL DESIGN. THIS INCLUDES ADDITIONAL GEOTECHNICAL BORINGS TO CONFIRM DEPTH TO BEDROCK; AND FIELD AND LABORATORY TESTING TO DEVELOP SOIL STRENGTH PARAMETERS. THE FIELD AND LABORATORY DATA WILL BE USED TO REFINE THE STABILITY ANALYSIS AND TO DETERMINE FINAL DESIGN SIDE SLOPES INCLUDING APPROPRIATE FACTOR OF SAFETY.

Legend

- EXISTING BATHYMETRY
- PROPOSED TARGET DREDGE DEPTH

Client/Project

City of Portland
 Portland Harbor
 CAD Cell Project

Project No.

195601208

Title

Proposed CAD Cell
 Profile

Revision

Reference Sheet

Date

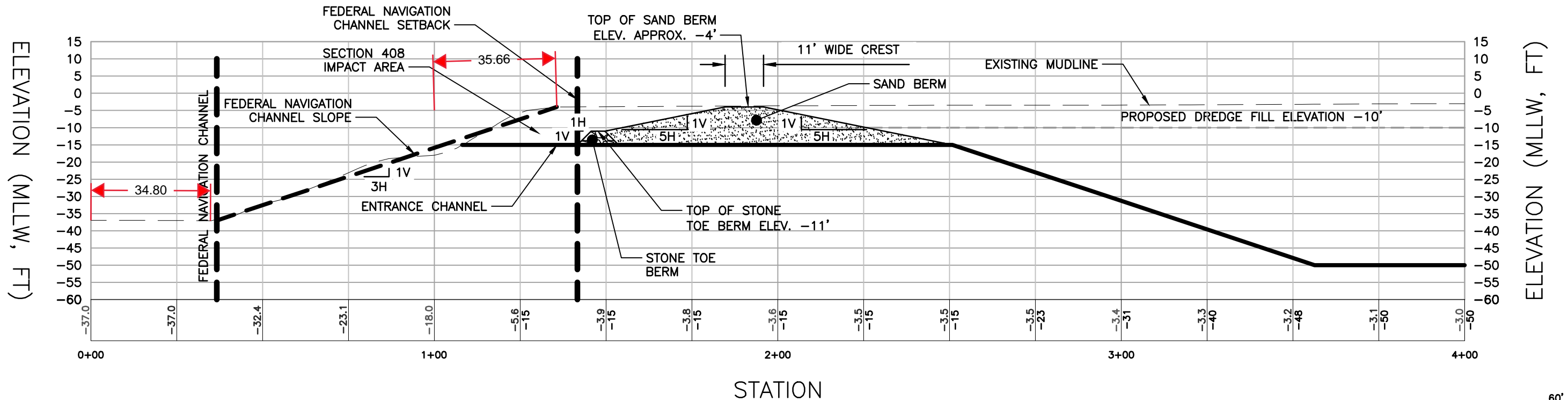
2020.07.10

Figure No.

3

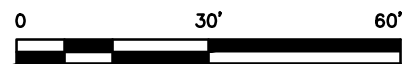
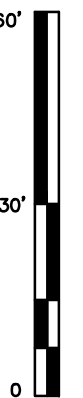
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PROFILE - ENTRANCE CHANNEL

HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=30'



NOTES:

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Legend

- - - - - EXISTING BATHYMETRY
- PROPOSED TARGET DREDGE DEPTH



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Client/Project

City of Portland
Portland Harbor
CAD Cell Project

Project No.
195601208

Title

Proposed CAD Cell
Entrance Channel Profile

Revision

Reference Sheet

Date

2020.07.14

Figure No.

4