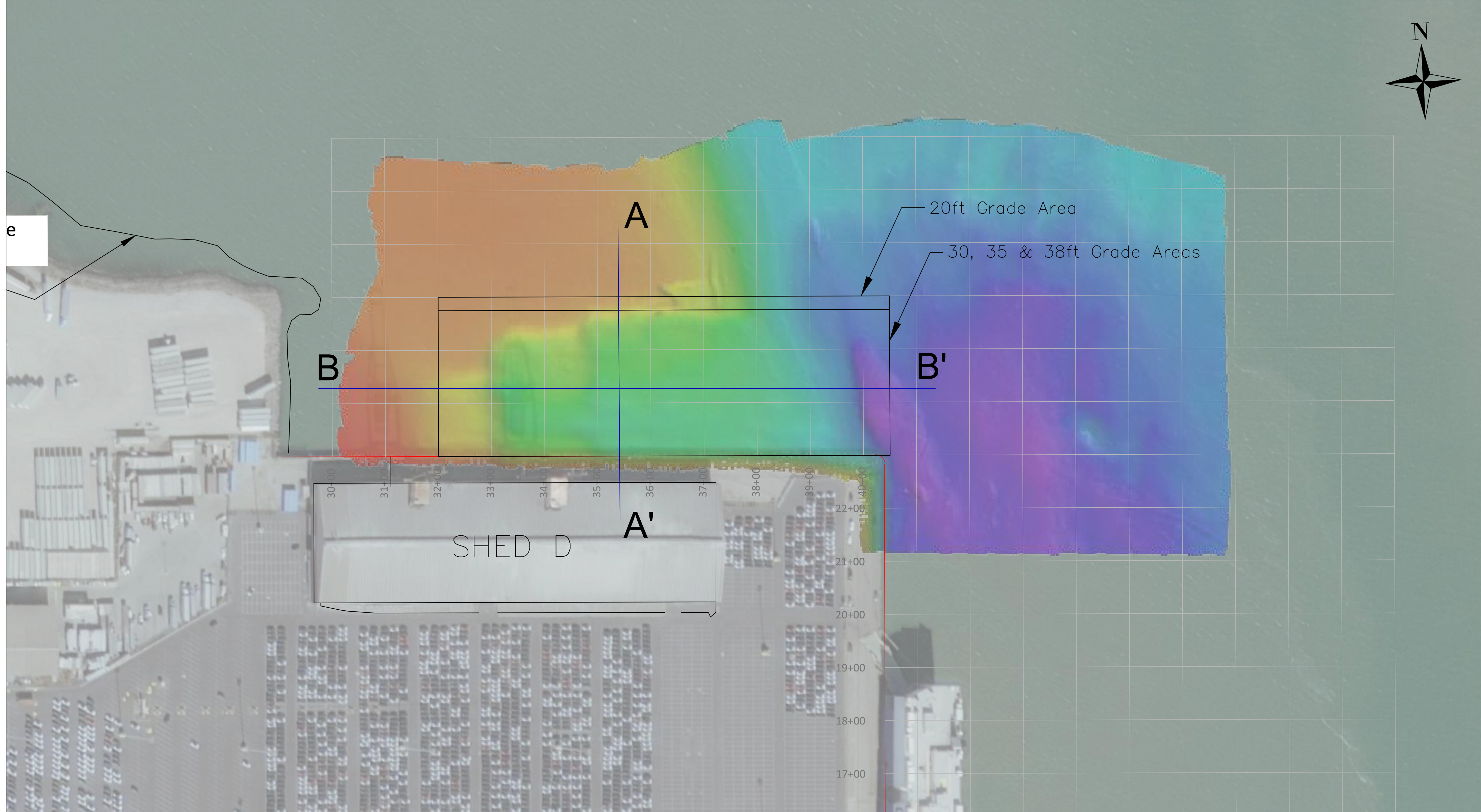


PORT OF SAN FRANCISCO PIER 80

AEW ENGINEERING CONDITION HYDROGRAPHIC SURVEY

Overview



not to scale

SHEET INDEX:

- SHEET 1 - PROJECT INFORMATION
- SHEET 2 - SOUNDINGS
- SHEET 3 - COLOR DEM
- SHEET 4 - CROSS-SECTIONS

GENERAL NOTES:

1. HYDROGRAPHIC SURVEY DATA COLLECTED BY ETRAC, INC. ON MARCH 4, 2022
2. HORIZONTAL DATUM/PROJECTION: NAD83(2011); SPCS CALIFORNIA 03 - U.S. SURVEY FEET
3. HORIZONTAL CONTROL: ETRAC REFERENCE STATION: WESTAR, 37°46'27.44944" N, 122°22'56.65973"W
4. VERTICAL DATUM: MLLW, U.S. SURVEY FEET
5. VERTICAL CONTROL: EE10 2018, 13.060'
6. THIS SURVEY REPRESENTS GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
7. VESSEL POSITION AND MOTION DATA WAS COLLECTED USING AN APPLANIX POS MV V5.
8. BATHYMETRIC SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 OPERATING AT 200 KHZ.

Pier 80D-Available Material						
Survey Date: 03/04/2022; Volumes Calculated In AutoCAD Civil3D						
Dredge Unit	Project Grade (ft)	Material to Grade (cyds)	Material in 3:1 Slopes (cyds)	Material in Overdepth +2 Only (cyds)	Dredge Area (Acres)	Total Material (cyds)
20ft	(-20+2)	5,928	5,488	1,090	0.5	12,507
30ft	(-30+2)	69,597	16,791	14,154	5.4	100,542
35ft	(-35+2)	105,729	24,631	15,156	5.4	145,516
38ft	(-38+2)	128,620	29,661	15,918	5.4	174,199

Jordan A. Kushner

Jordan A. Kushner, CH #340

This hydrographic survey was performed under the direct supervision of a THSOA/NSPS Certified Hydrographer.



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SAN FRANCISCO, CA
sfport.com

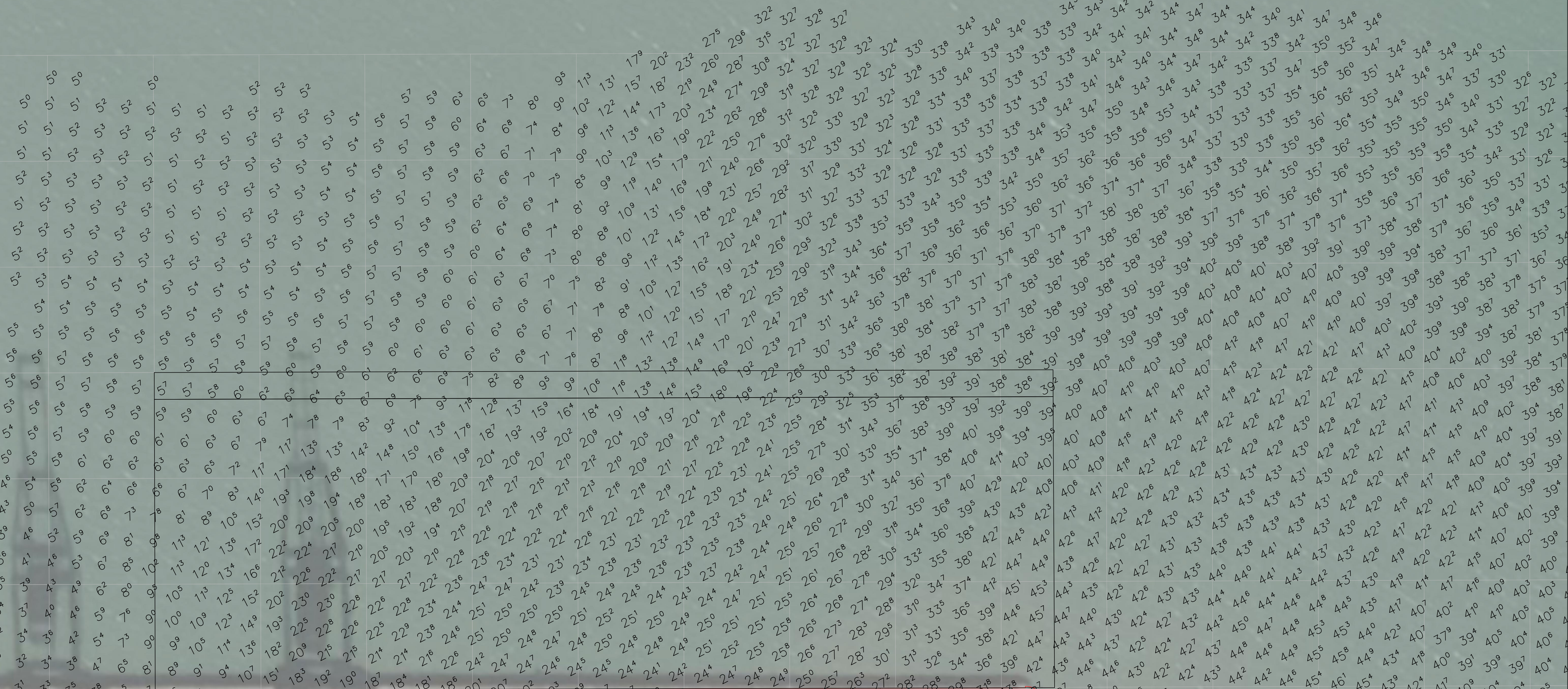
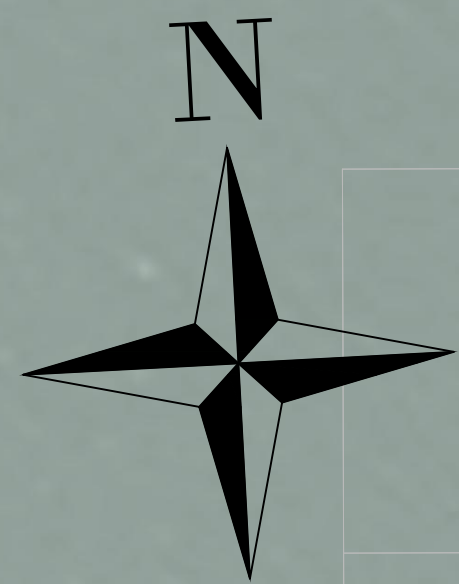


eTrac Inc.
637 LINDARO STREET
SUITE 100
SAN RAFAEL, CA 94901
415.462.0421
eTracInc.com

SURVEY DATE: March 4, 2021 PLOT DATE: March 9, 2022
 DRAWN BY: JAK CHECKED BY: KW
 REVISION
 FILE NAME: POSF_20220304_Pier80.dwg

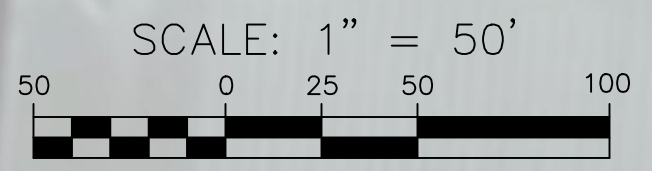
PIER 80
PORT OF SAN FRANCISCO
CONDITION SURVEY

Reference Number:
S1



30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00

SHED D



IF SHEET IS LESS THAN 22"x34"
IT IS A REDUCED PRINT,
SCALE ACCORDINGLY



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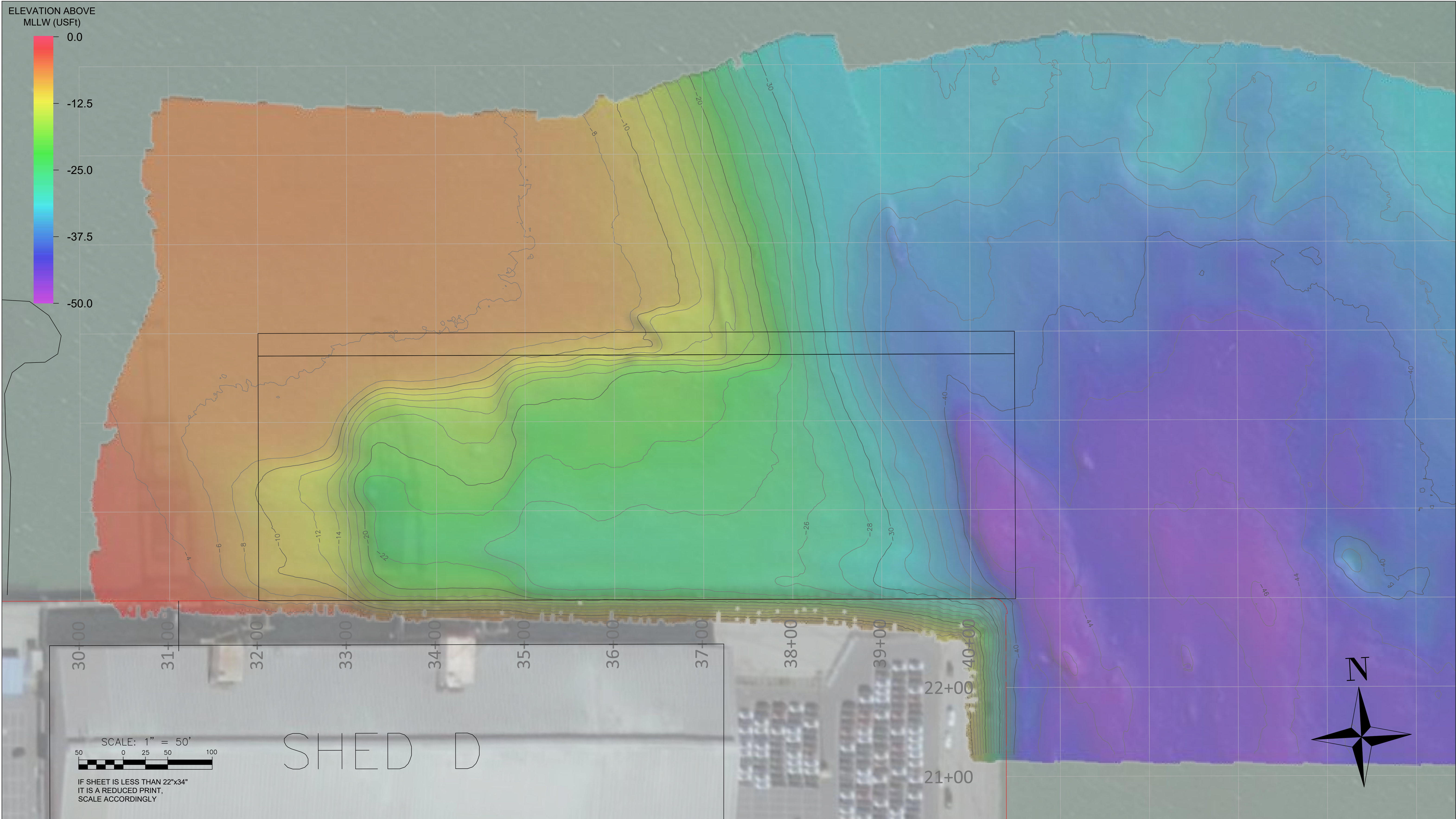
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DRAWN BY: JAK	CHECKED BY: KW
REVISION	
FILE NAME: POSF_20220304_Pier80.dwg	

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SOUNDINGS

Reference
Number:

S2



SCALE: 1" = 50'

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PIER 80
PORT OF SAN FRANCISCO

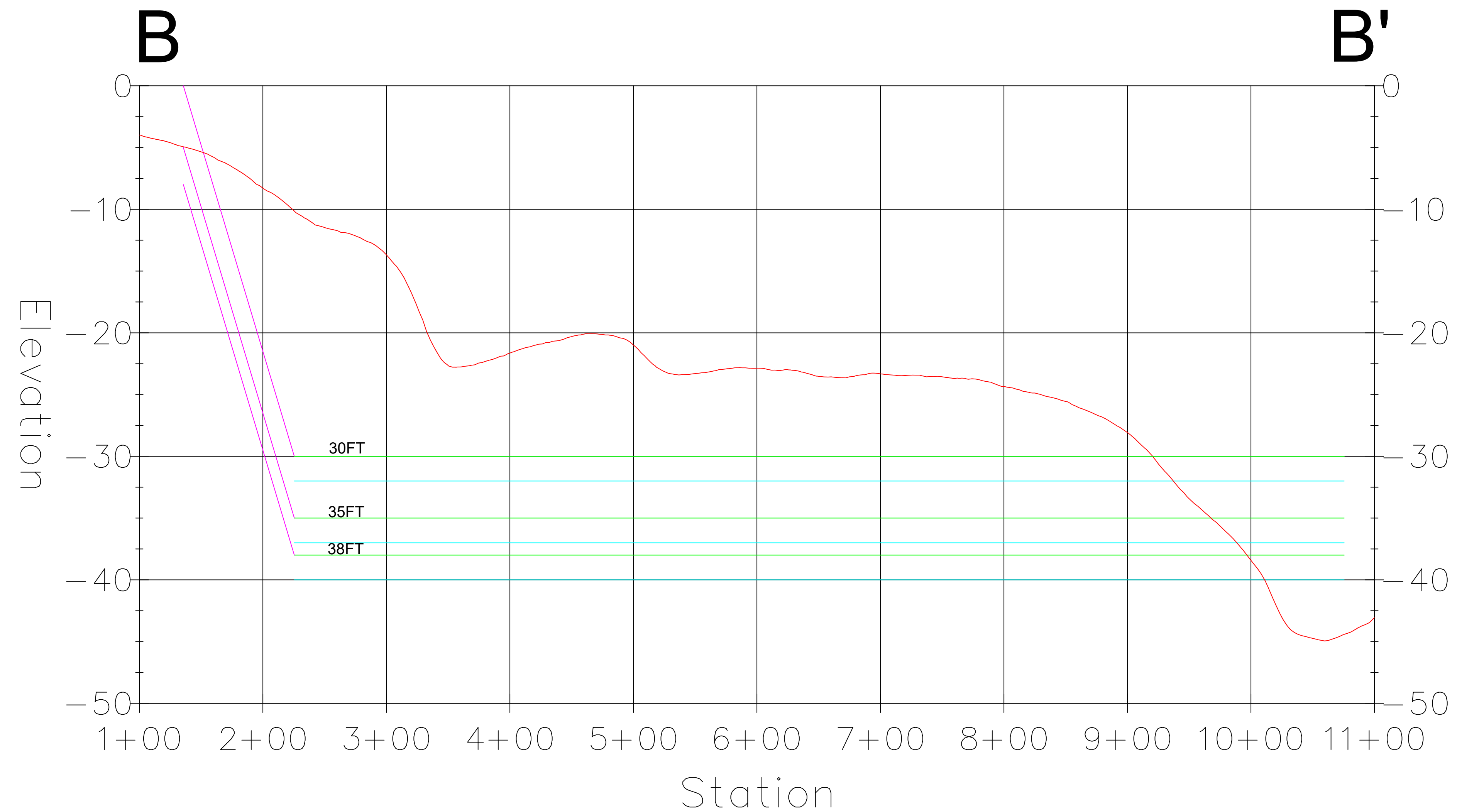
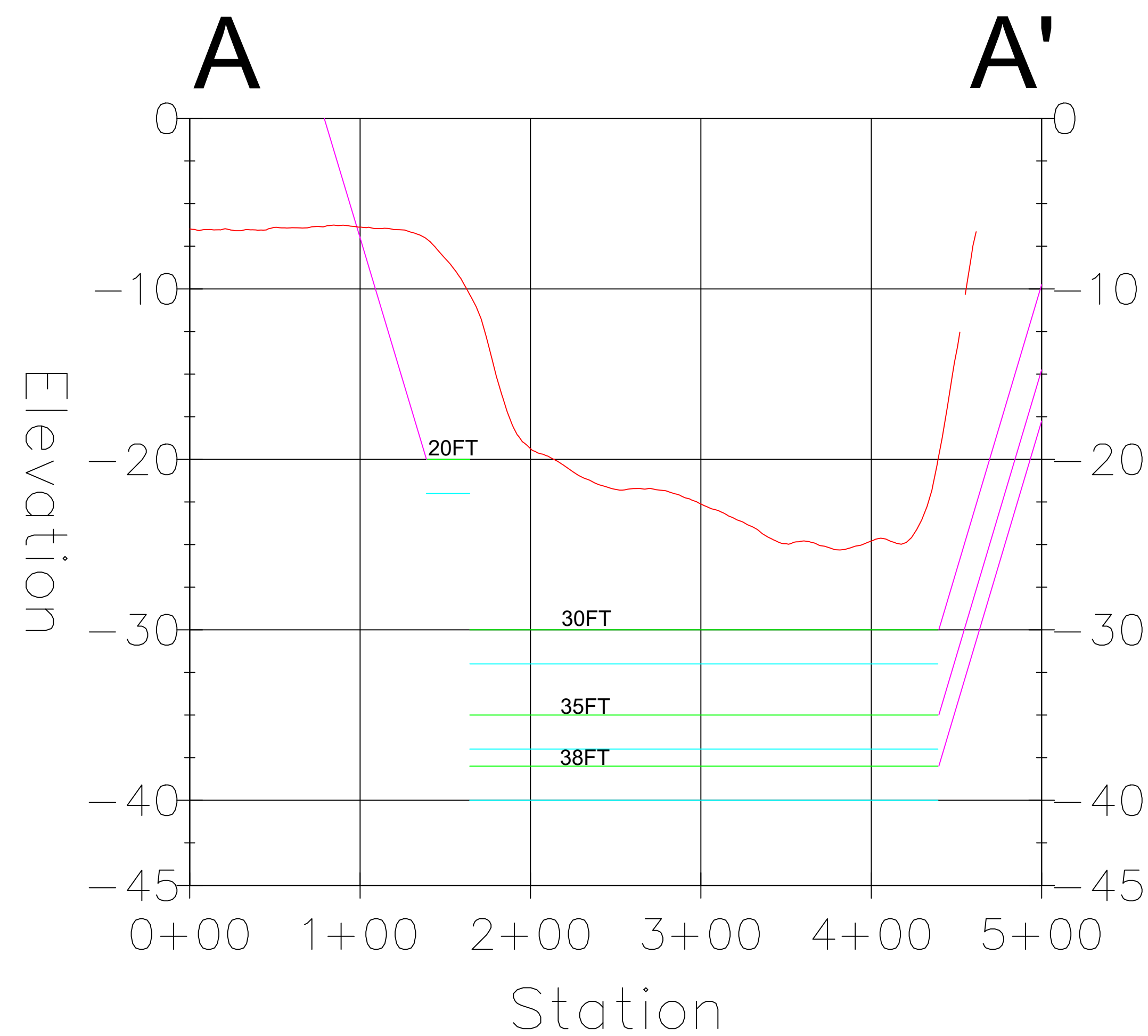
COLOR DEM & OBJECTS

Reference
Number:

S3

Cross-Sections

- Existing Ground
- Grade
- +2' Overdredge
- 3:1 Slopes




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PIER 80
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Cross-Sections

Reference Number:

S4