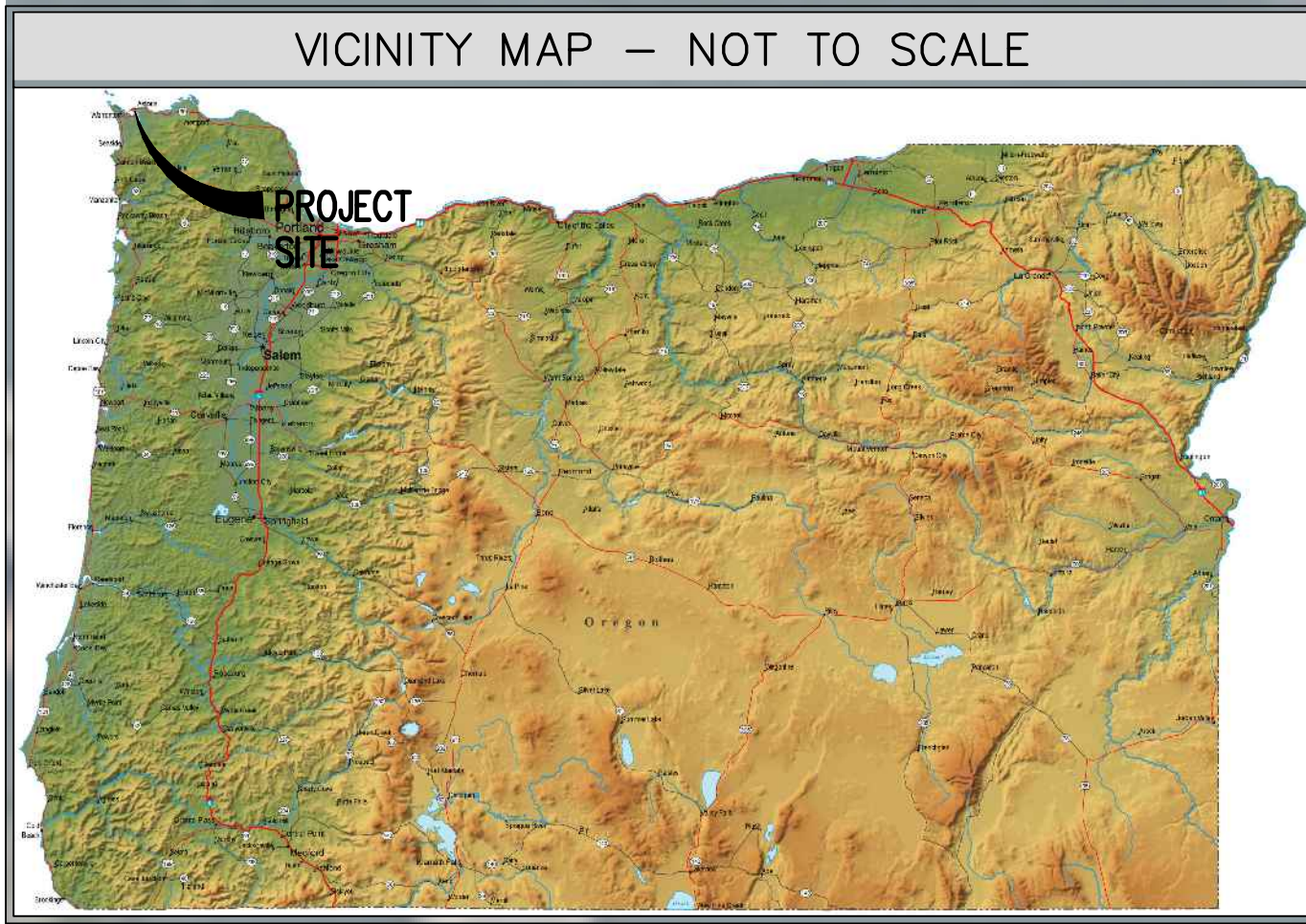
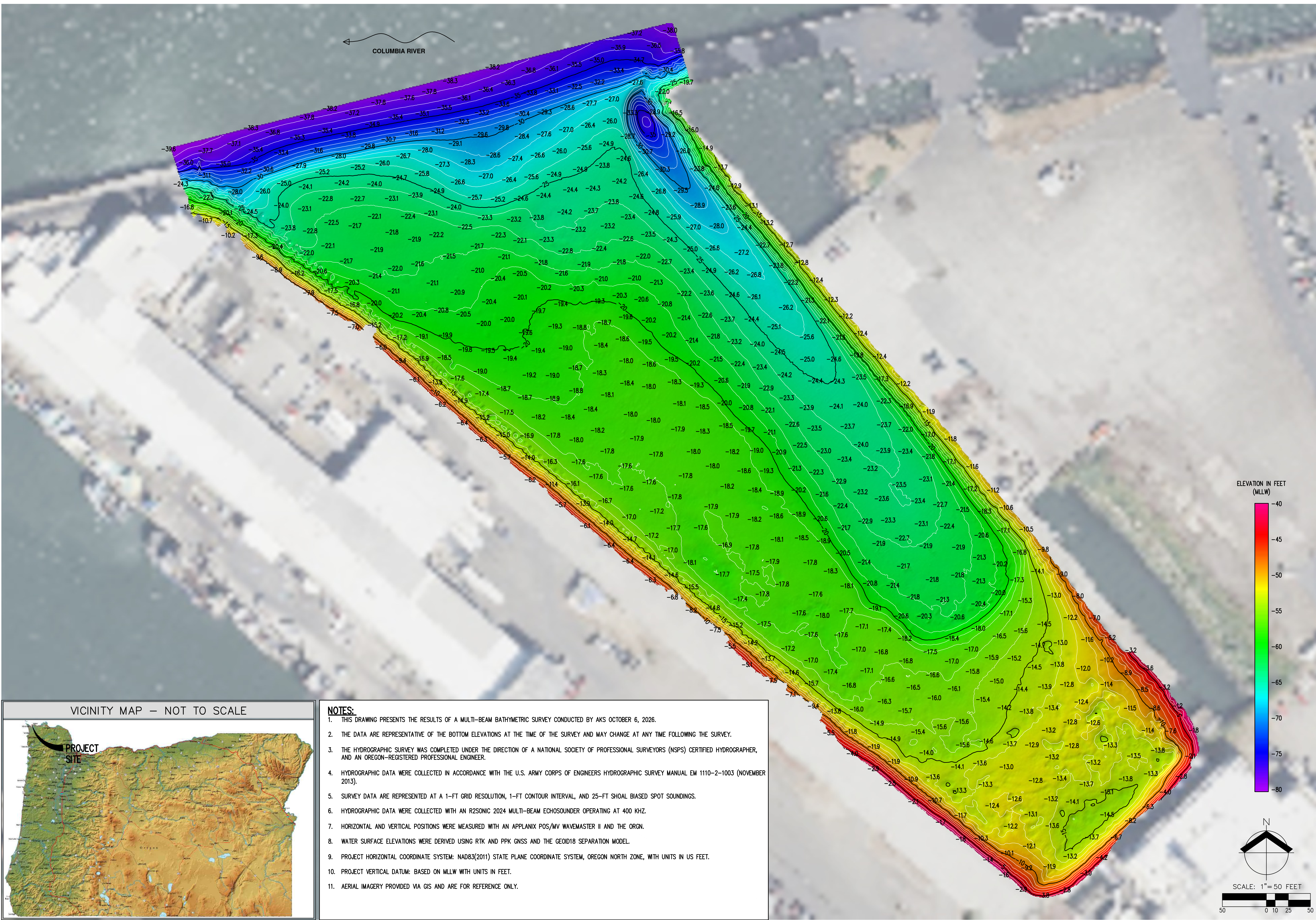


AKS DRAWING FILE: 16056_SLP1_2026000.DWG LAYOUT: LAYOUT1



NOTES:

1. THIS DRAWING PRESENTS THE RESULTS OF A MULTI-BEAM BATHYMETRIC SURVEY CONDUCTED BY AKS OCTOBER 6, 2026.
2. THE DATA ARE REPRESENTATIVE OF THE BOTTOM ELEVATIONS AT THE TIME OF THE SURVEY AND MAY CHANGE AT ANY TIME FOLLOWING THE SURVEY.
3. THE HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECTION OF A NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) CERTIFIED HYDROGRAPHER, AND AN OREGON-REGISTERED PROFESSIONAL ENGINEER.
4. HYDROGRAPHIC DATA WERE COLLECTED IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003 (NOVEMBER 2013).
5. SURVEY DATA ARE REPRESENTED AT A 1-FT GRID RESOLUTION, 1-FT CONTOUR INTERVAL, AND 25-FT SHOAL BIASED SPOT SOUNDINGS.
6. HYDROGRAPHIC DATA WERE COLLECTED WITH AN R2SONIC 2024 MULTI-BEAM ECHOSOUNDER OPERATING AT 400 KHZ.
7. HORIZONTAL AND VERTICAL POSITIONS WERE MEASURED WITH AN APPLANIX POS/MV WAVEMASTER II AND THE ORGN.
8. WATER SURFACE ELEVATIONS WERE DERIVED USING RTK AND PPK GNSS AND THE GEOID18 SEPARATION MODEL.
9. PROJECT HORIZONTAL COORDINATE SYSTEM: NAD83(2011) STATE PLANE COORDINATE SYSTEM, OREGON NORTH ZONE, WITH UNITS IN US FEET.
10. PROJECT VERTICAL DATUM: BASED ON MLLW WITH UNITS IN FEET.
11. AERIAL IMAGERY PROVIDED VIA GIS AND ARE FOR REFERENCE ONLY.



AKS ENGINEERING AND FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503-563-6151
WWW.AKS-ENG.COM

AKS

PORT OF ASTORIA
2026 PRE DREDGE SURVEY
ASTORIA

OREGON
CLATSOP COUNTY

BATHYMETRIC SURVEY
SLIP 1

DESIGNED BY: --
DRAWN BY: NJS
MANAGED BY: JMM
CHECKED BY: JMM
DATE: 10/12/2026

REGISTERED PROFESSIONAL
ENGINEER
855773PE
OREGON
NOV 08, 2021
JASON MATTHEW MAGALEN

RENEWS: 12/31/26

REVISIONS

JOB NUMBER
16056

SHEET
1