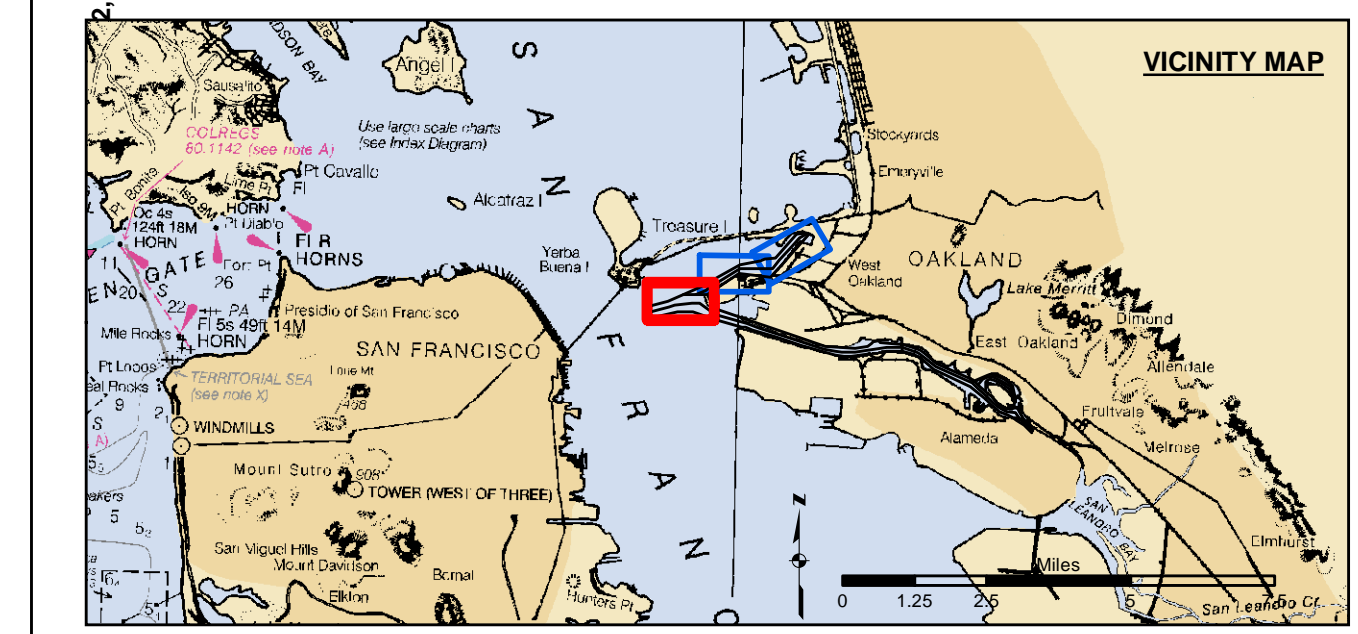
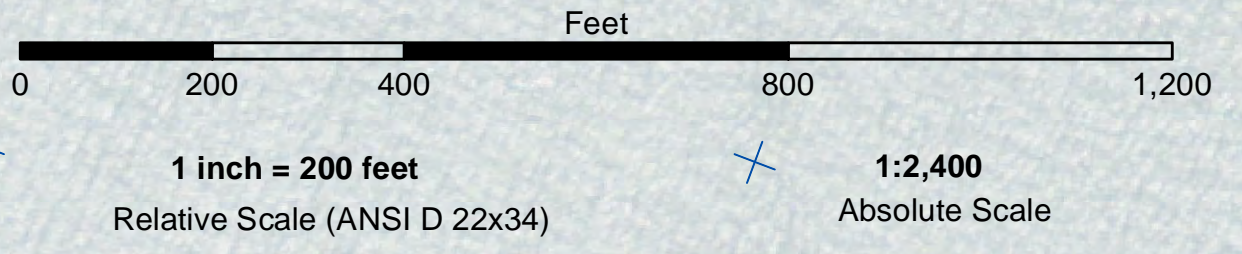


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FLOOD →
← EBB



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Contours -50
- Contours -49
- Contours -48
- Contours -47
- Contours -46

NOTES:
HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.
VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
SURVEYED BY THE CORPS OF ENGINEERS.
BASE MAPS ARE USDA NAIP 2010.
*SHOALEST SOUNDING PER QUARTER PER REACH

VERTICAL CONTROL:
PPCP: PORT 1 1936/PID HT0654.
OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER, NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR.
ELEVATION: 9.56 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEIOD09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW.
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ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEIOD09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
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HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GURAD DGPS D-BEACON

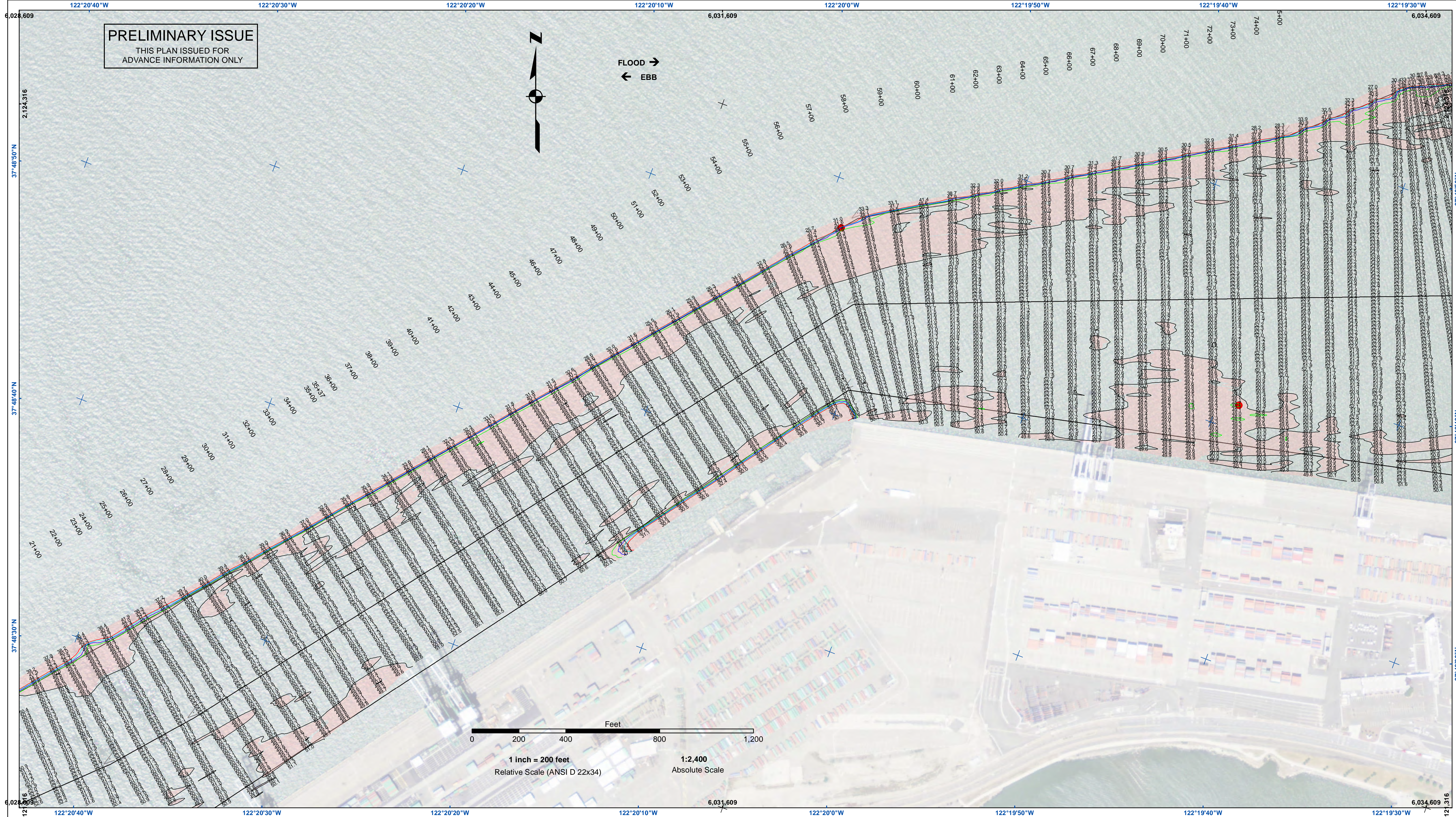


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Chart Date:	Apr 03, 2023
Designed by:	
Drawn by:	
Checked by:	
Project Manager:	
Surveyed By:	KEVIN P. ARNETT
Plotted By:	
Hydro Survey Team Leader:	
Navigation Technical Manager:	
Project Manager:	

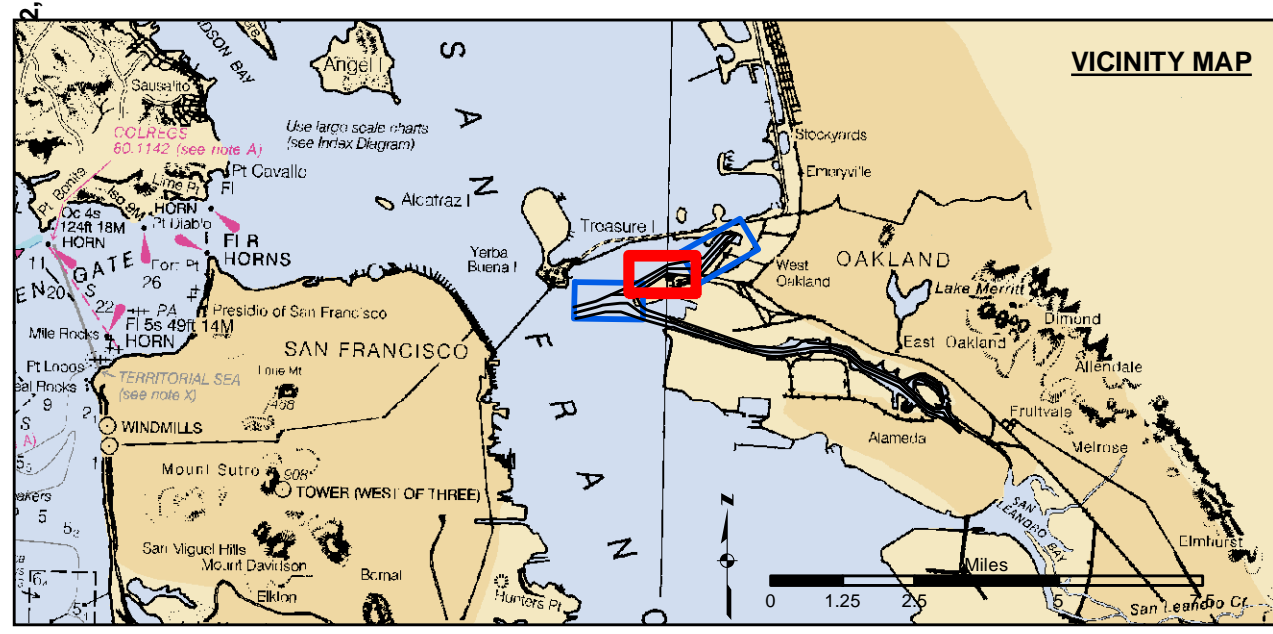
ALAMEDA COUNTY
CALIFORNIA
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
23-24 MARCH 2023

Sheet
Number
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- Federal Navigation Channel
 - Shoaling Area
 - Placement Area
 - Anchorage Area
 - Wreck Area
 - Submerged Wreck
 - Angle Point
 - Beacon, General
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 - 50
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NOTES:
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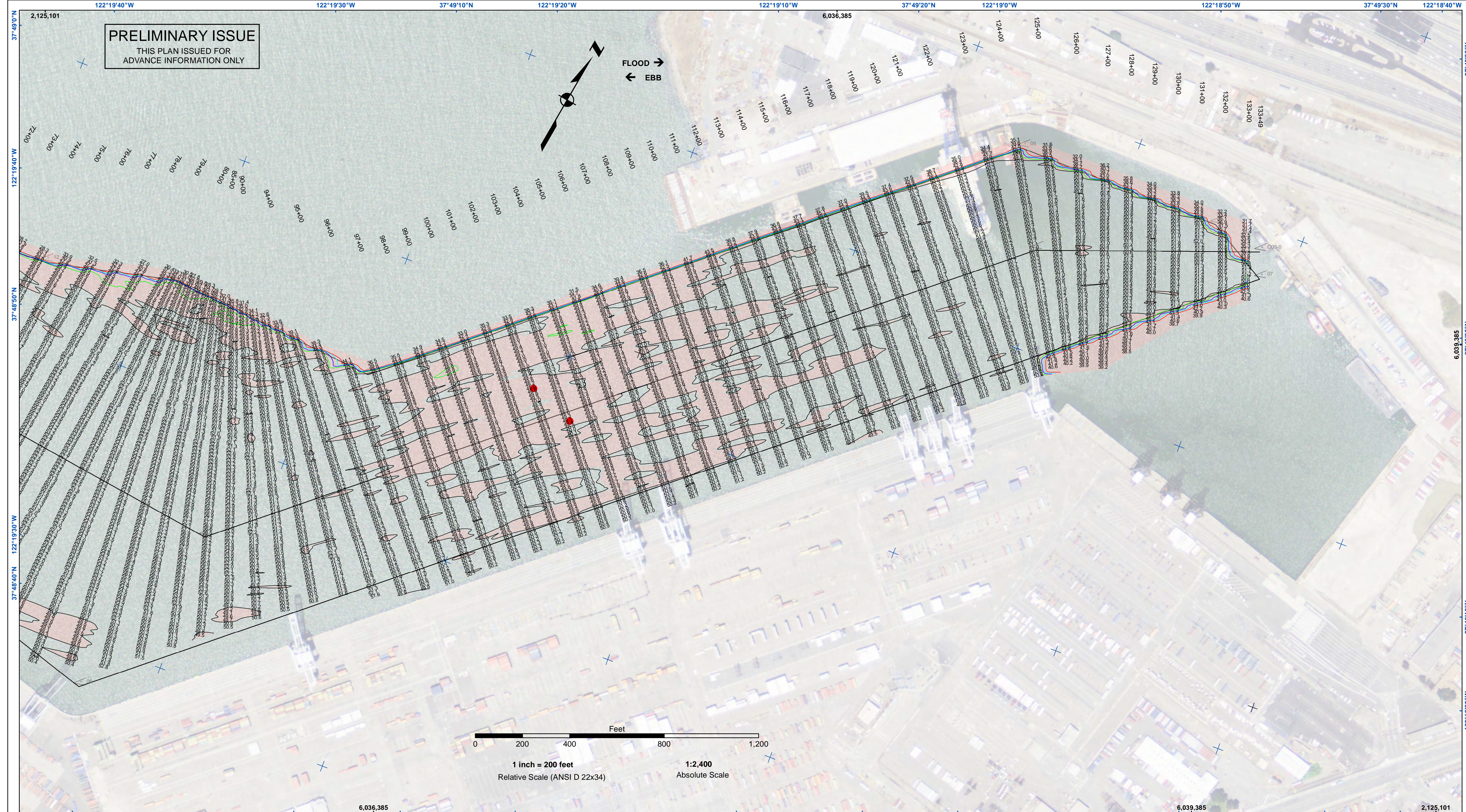
VERTICAL CONTROL:
PROP. PORT 1 1836PID HT0654
OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. ELEVATION: 9.56 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOD09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 40.
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HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GURAD DGPS D-BEACON

US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave.
San Francisco, CA 94102

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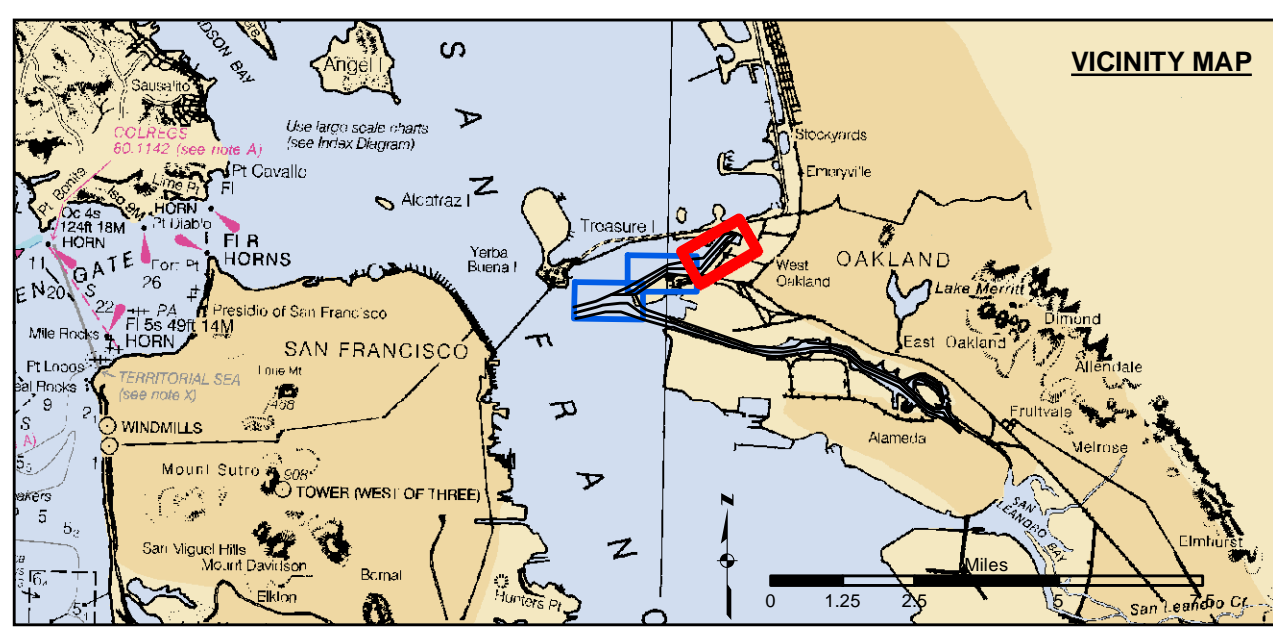
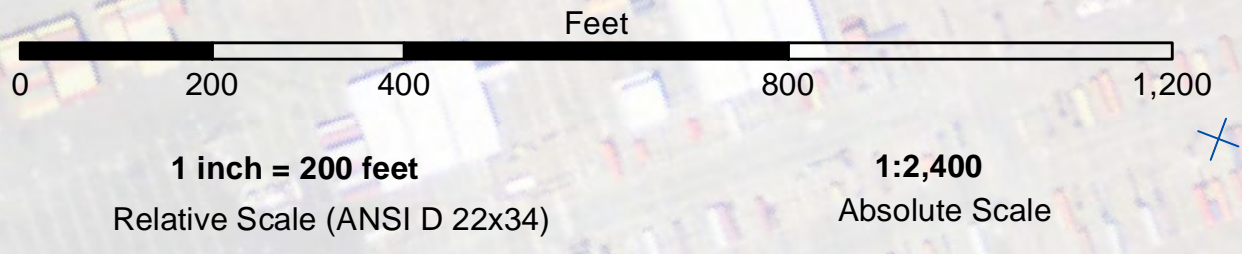
Prepared Under the Direction of	Chart Date:
KEVIN P. ARNETT	Apr 03, 2023
LT Colonel, C.E., District Engineer	Designed by:
Submitted:	Plotted By:
Hydro Survey Team Leader	Checked By:
Recommended:	Drawn by:
Navigation Technical Manager	Project Manager
Approved:	

CALIFORNIA
ALAMEDA COUNTY
OAKLAND HARBOR
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
23-24 MARCH 2023
Sheet Number 2 of 3



PRELIMINARY ISSUE
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FLOOD →
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- | | | |
|----------------------------|--------------------|----------|
| Federal Navigation Channel | Beacon, General | Contours |
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| Angle Point | | |

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Chart Date:	Apr 03, 2023
Designed by:	
Drawn by:	
Surveyed By:	KEVIN P. ARNETT
Plotted By:	
Checked By:	
Project Manager:	

CALIFORNIA
ALAMEDA COUNTY
OAKLAND HARBOR
OUTER HARBOR
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