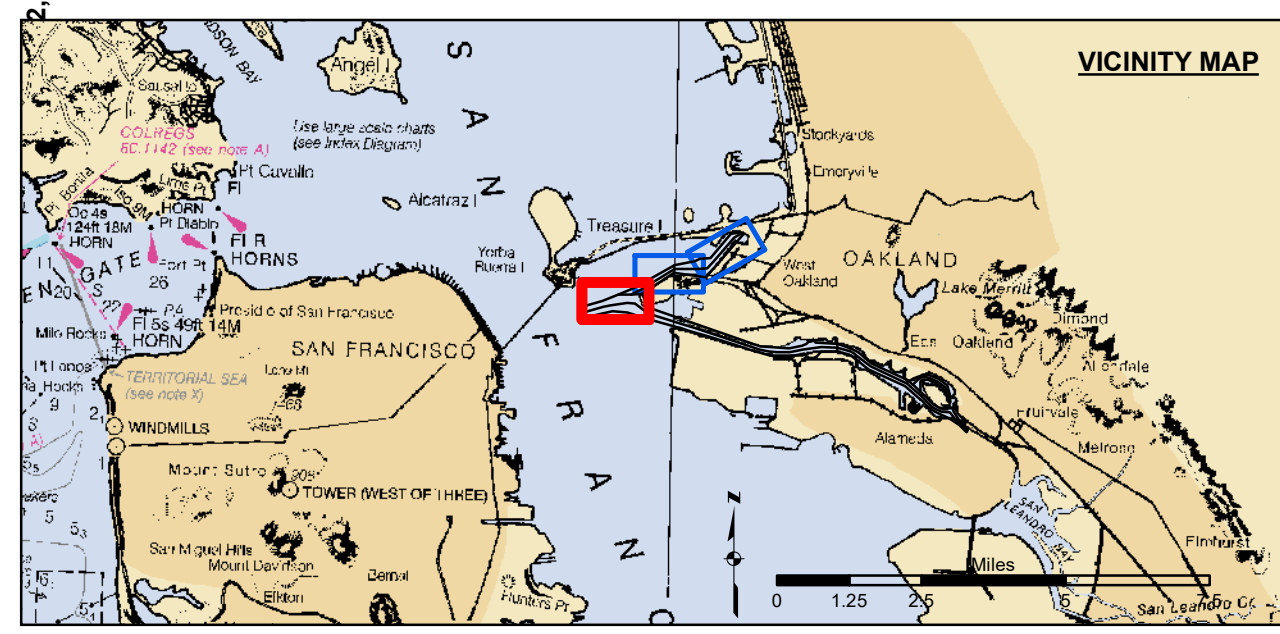
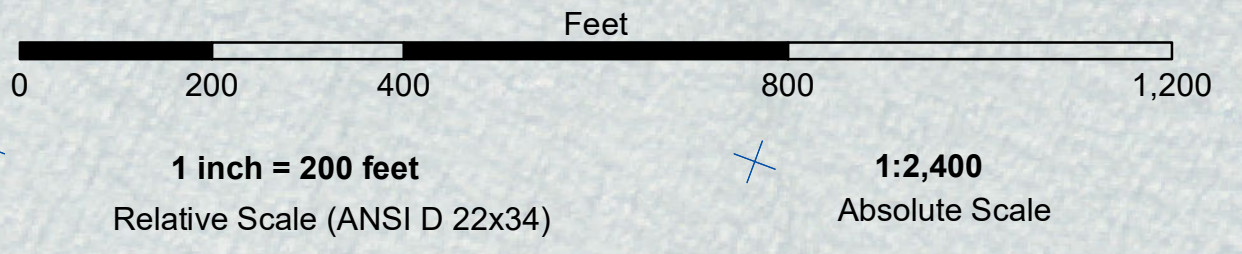


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

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
- -49
- -48
- -47
- -46

NOTES:
HORIZONTAL CONTROL:
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.
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.
SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.
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 1636PID HT0564
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 - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW.
LPCP 1: 941 4777 B TIDALPID A5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR. ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDUTUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAV TUG TERMINAL AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND DATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.
HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GURAD DGPS D-BEACON

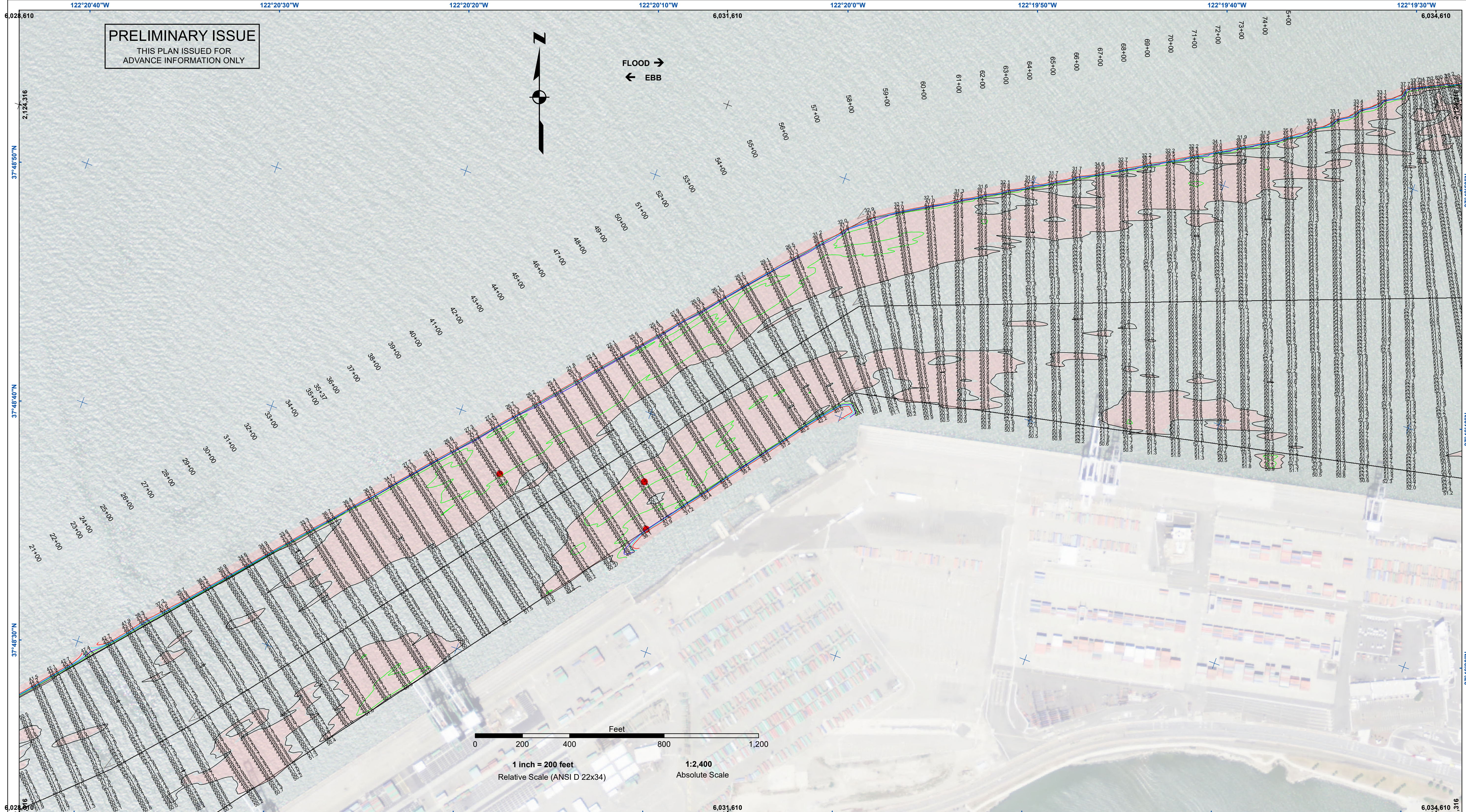


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Prepared Under the Direction of	Chart Date:
LT COLONEL W. SHEBESTA	Feb 14, 2024
Submittal:	Designed by:
Hydro Survey Team Leader	
Recommendation:	Checked by:
Navigation Technical Manager	
Approval:	Drawn by:
Project Manager	

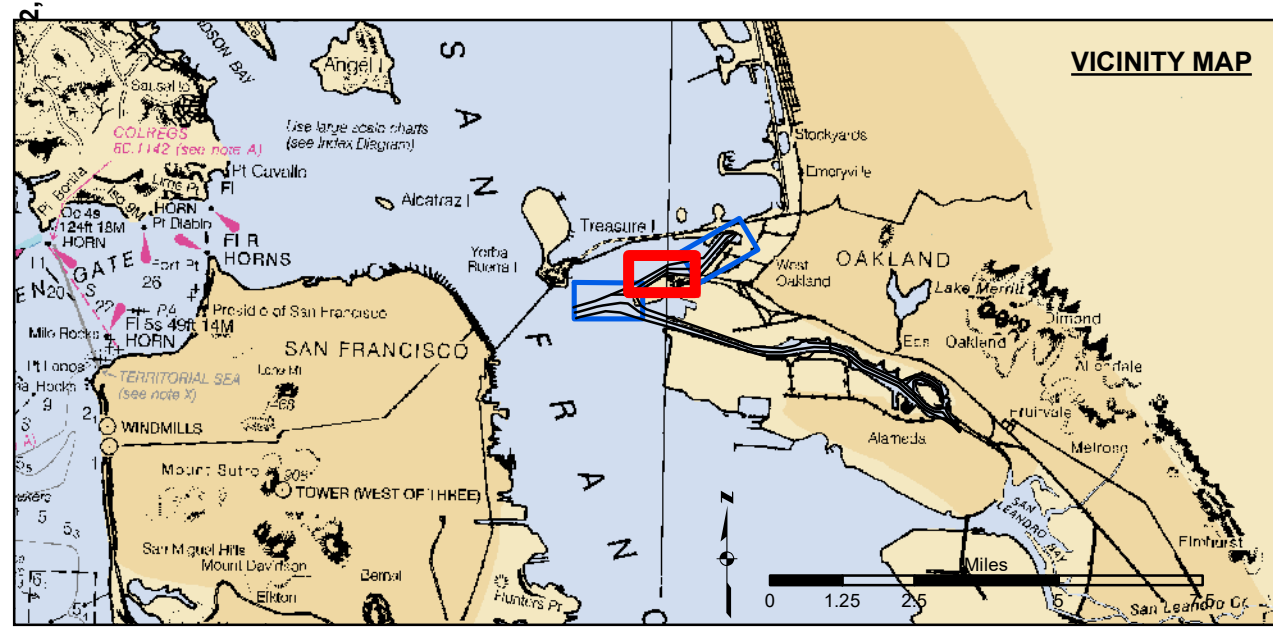
ALAMEDA COUNTY
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
08 FEBRUARY 2024

Sheet
Number
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PRELIMINARY ISSUE
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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
- 49
- 48
- 47
- 46

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, GEIOD09 AND VDUTUM MODELS TIDE GAUGE LOCATION IS CHISEL MARK APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW.
LPCP 1: 941 4777 B TIDALPID A5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR. ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEIOD09 AND VDUTUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAV TUG TERMINAL AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEIOD09 AND DATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.
HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GURAD DGPS D-BEACON

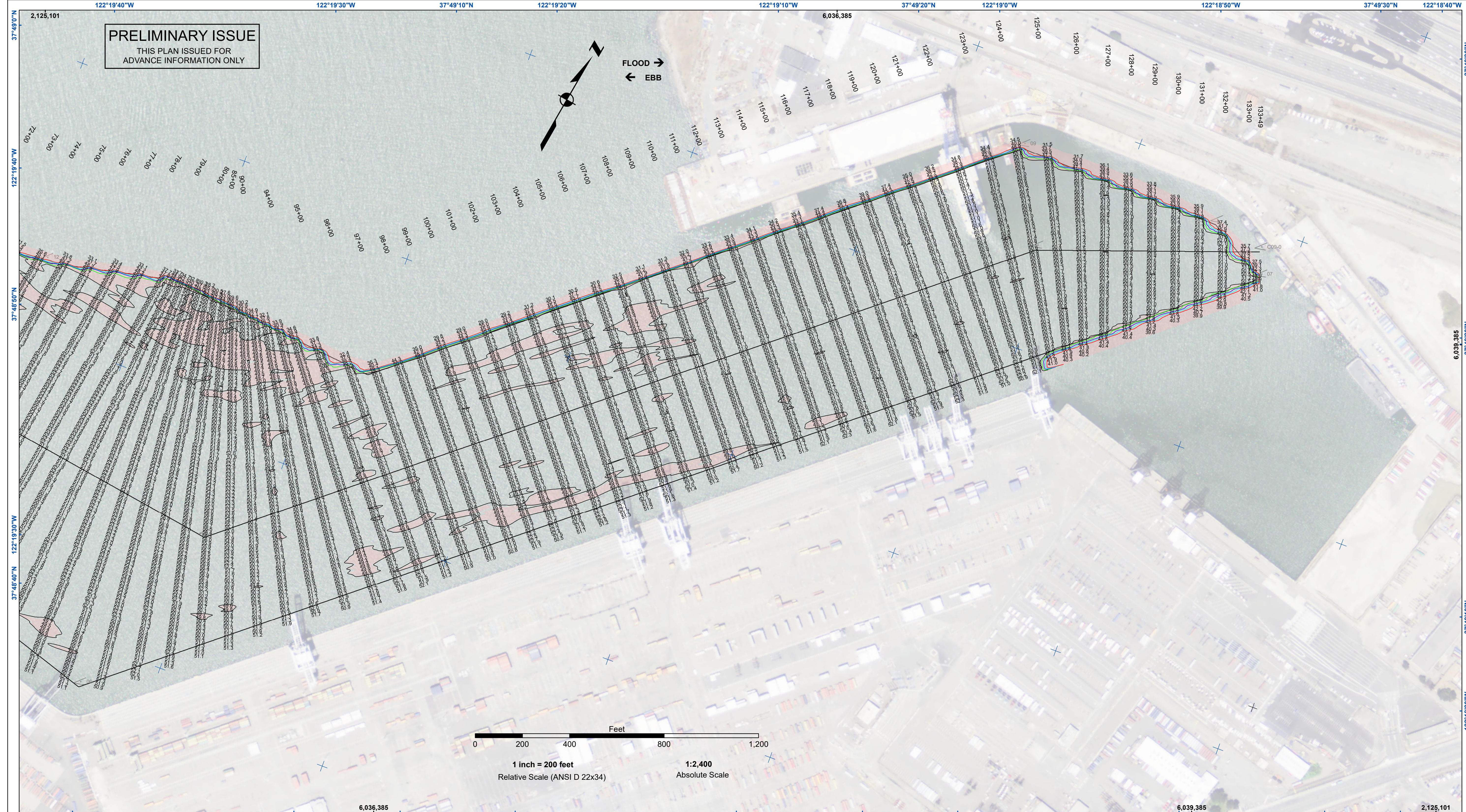


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Prepared Under the Direction of	Chart Date:
TIMOTHY W. SHEBESTA	Feb 14, 2024
Submittal:	Designed by:
Hydro Survey Team Leader	
Recommendation:	Checked By:
Navigation Technical Manager	
Approval:	Drawn by:
Project Manager	

ALAMEDA COUNTY
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
08 FEBRUARY 2024

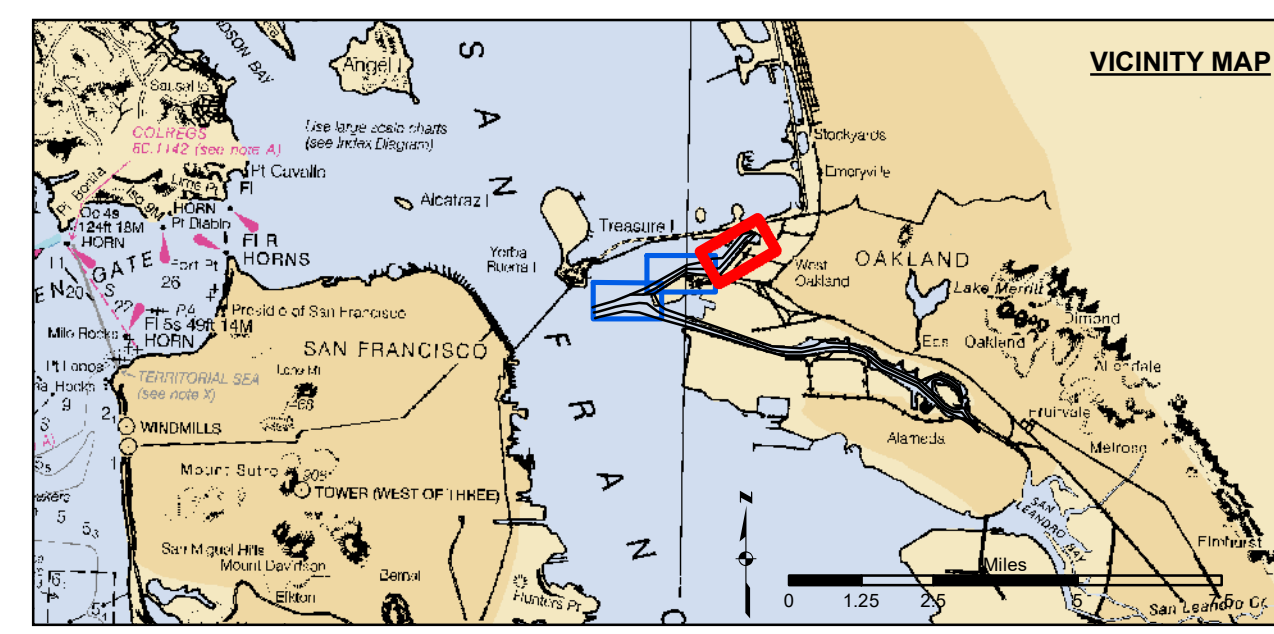
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Number
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PRELIMINARY ISSUE
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FLOOD →
← EBB

0 200 400 800 1,200
Feet
1 inch = 200 feet
Relative Scale (ANSI D 22x34)
1:2,400
Absolute Scale



- Federal Navigation Channel
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- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
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SECONDARY: COAST GURAD DGPS D-BEACON

US Army Corps of Engineers
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Prepared Under the Direction of TIMOTHY W. SHEBESTA LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Feb 14, 2024
Subject: Hydro Survey Team Leader	Designed by:
Recommendation: Navigation Technical Manager	Checked by:
Approved: Project Manager	Drawn by:
Surveyed By:	
Plotted By:	

ALAMEDA COUNTY
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
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Sheet Number
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