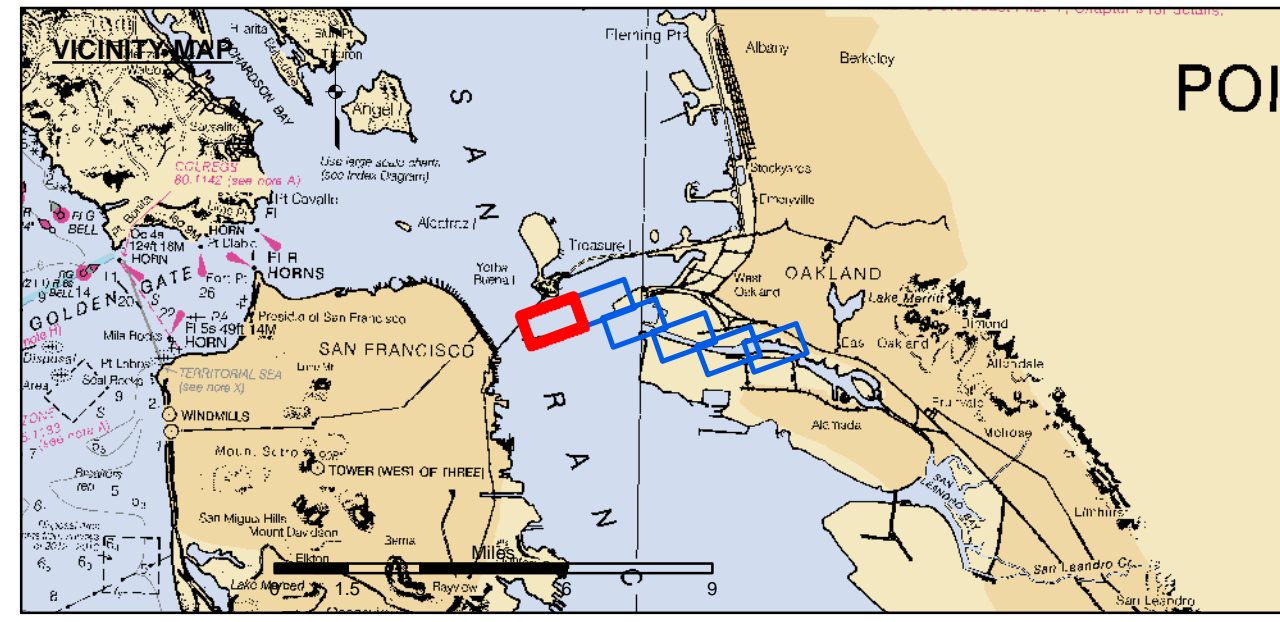


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Prepared Under the Direction of TIMOTHY W. SHEBESTA LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Mar 12, 2024
Submitted by: Hydro Survey Team Leader	Designed by:
Recommended by: Navigation Technical Manager	Drawn by:
Approved by: Project Manager	Checked by:

ALAMEDA COUNTY
OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 5-7 MARCH 2024

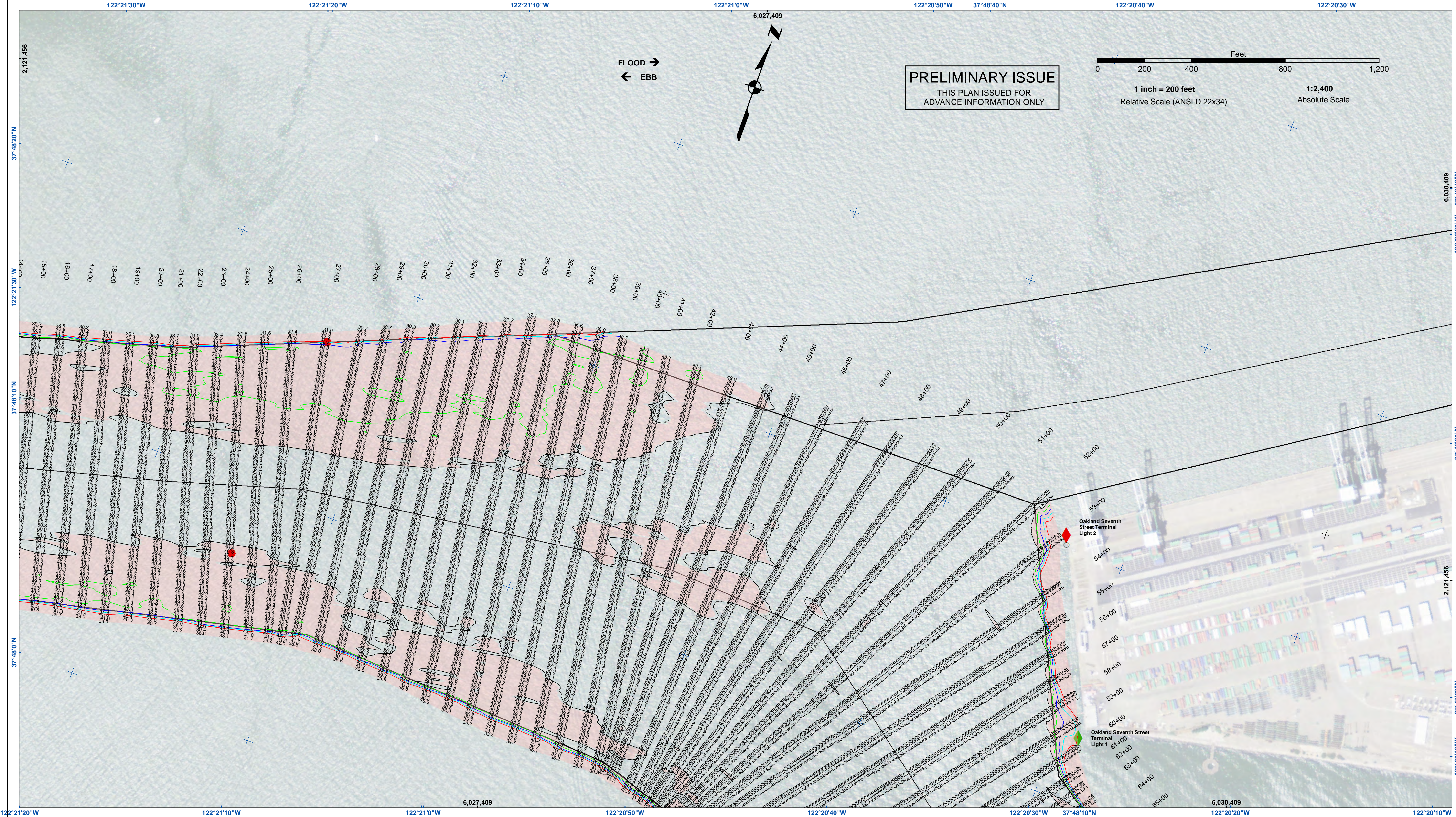
Sheet
Number
1 of 6



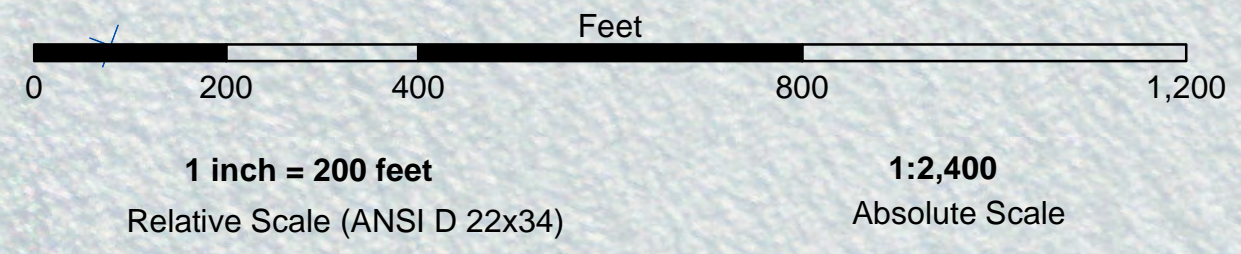
- Federal Navigation Channel
- Shoaling Area
- Placement Area
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- Contours
- 50
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- 47
- 46

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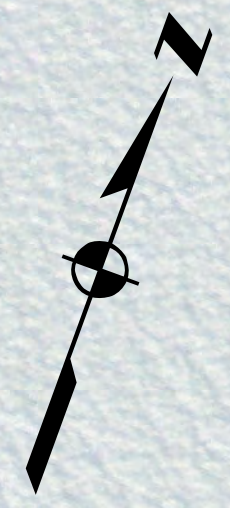
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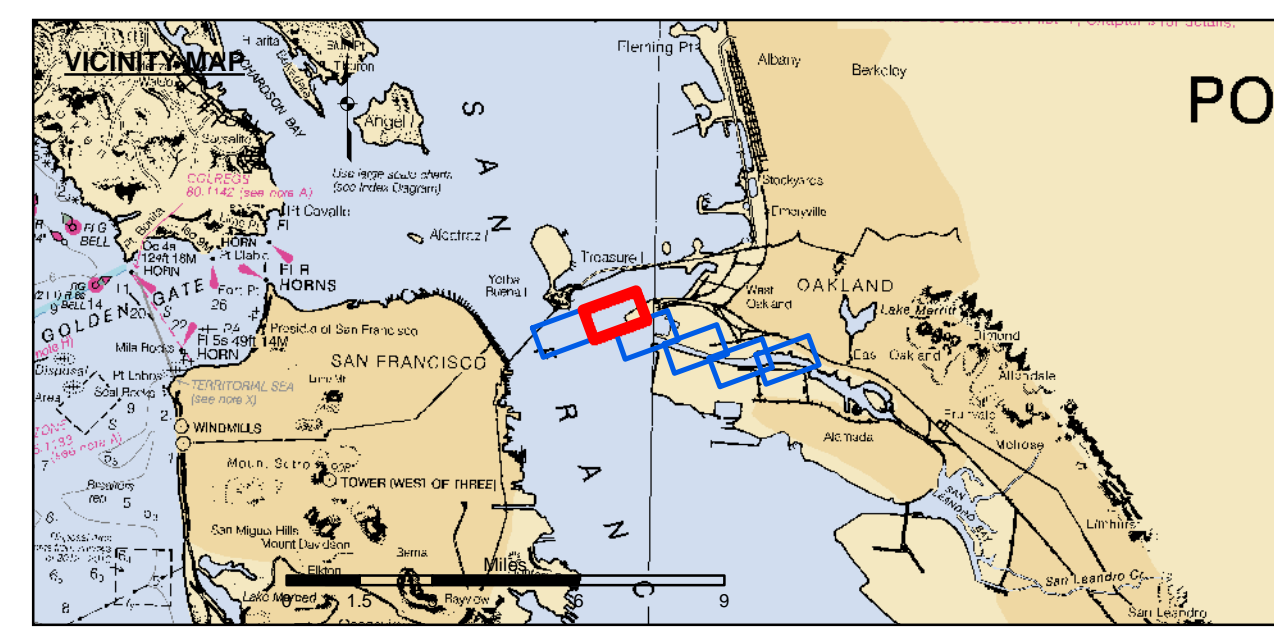


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Designed By:	Checked By:
Drawn by:	Project Manager:

ALAMEDA COUNTY
OAKLAND HARBOR
INNER HARBOR
CONDITION SURVEY
5-7 MARCH 2024

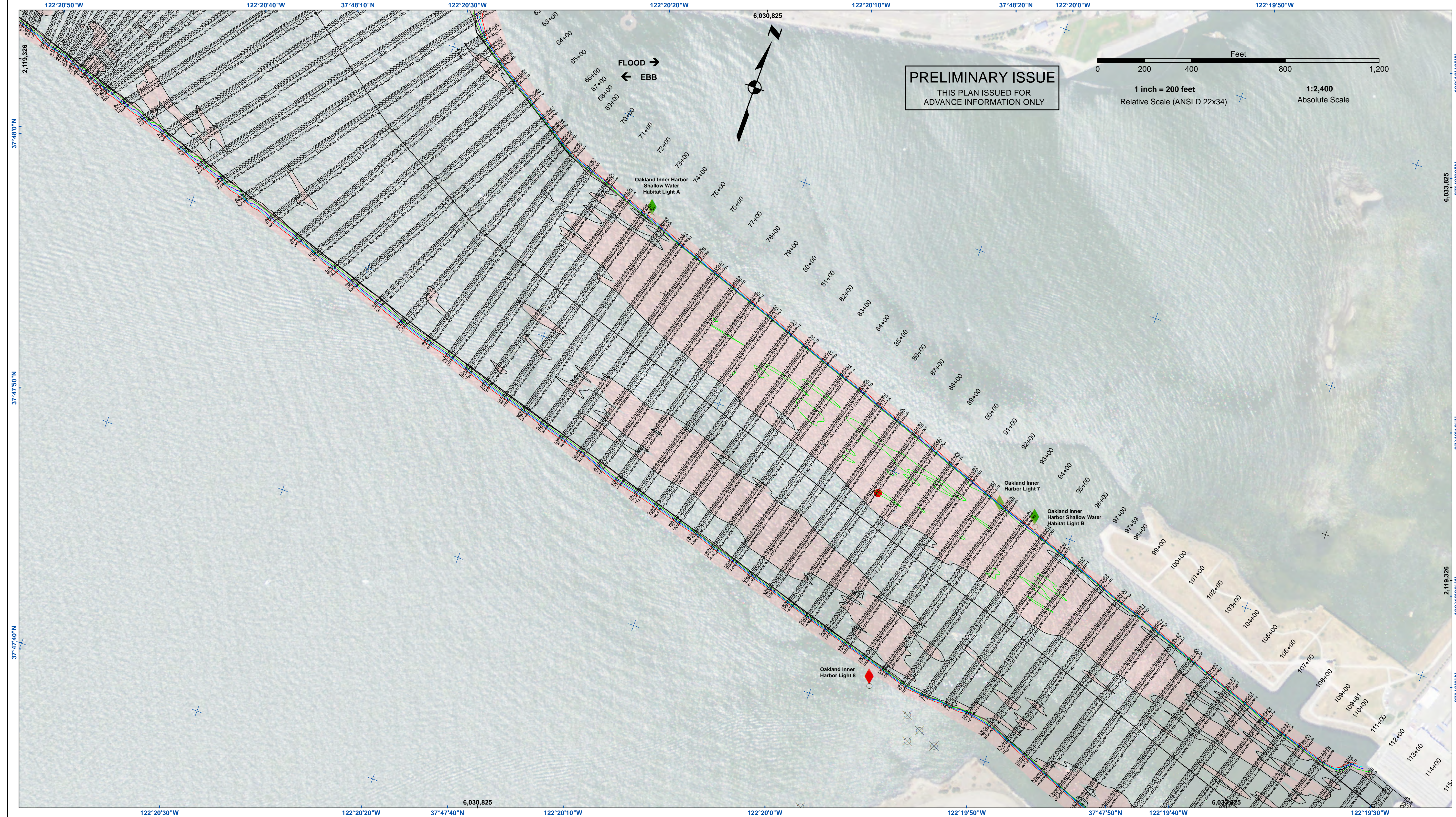


- Federal Navigation Channel
- Shoaling Area
- Placement Area
- - - Anchorage Area
- ▨ Wreck Area
- ⚓ Submerged Wreck
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Sheet Number
2 of 6



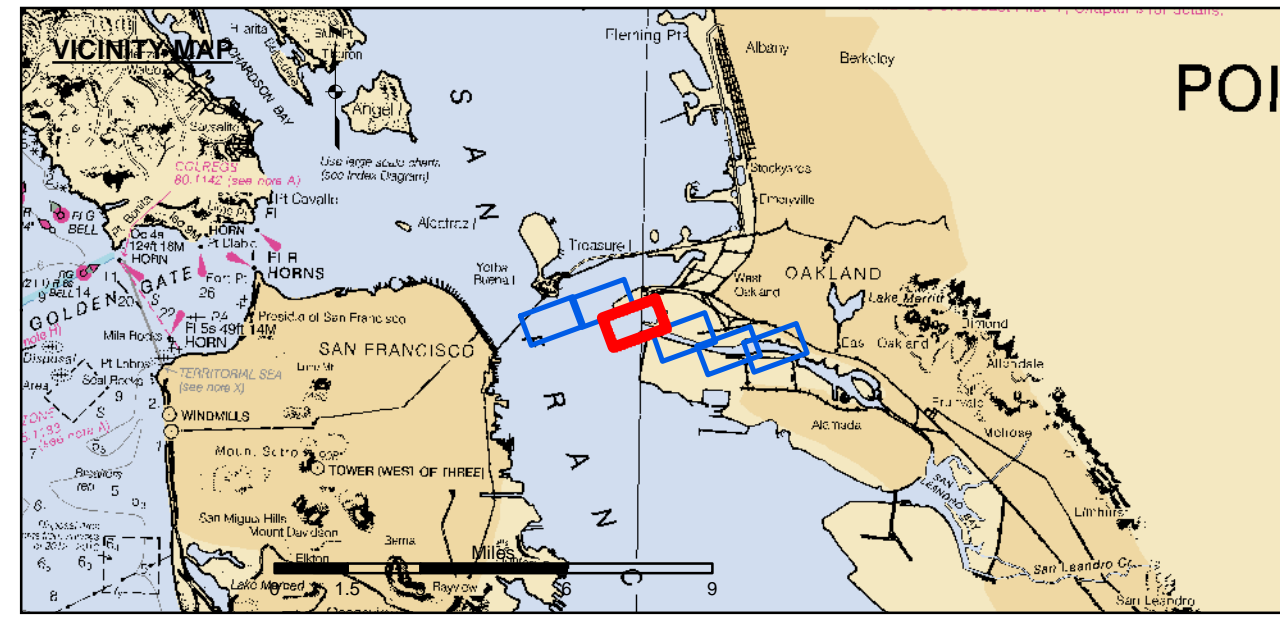
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Drawn by:	
Surveyed By:	
Plotted By:	
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Project Manager:	

ALAMEDA COUNTY
OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 5-7 MARCH 2024

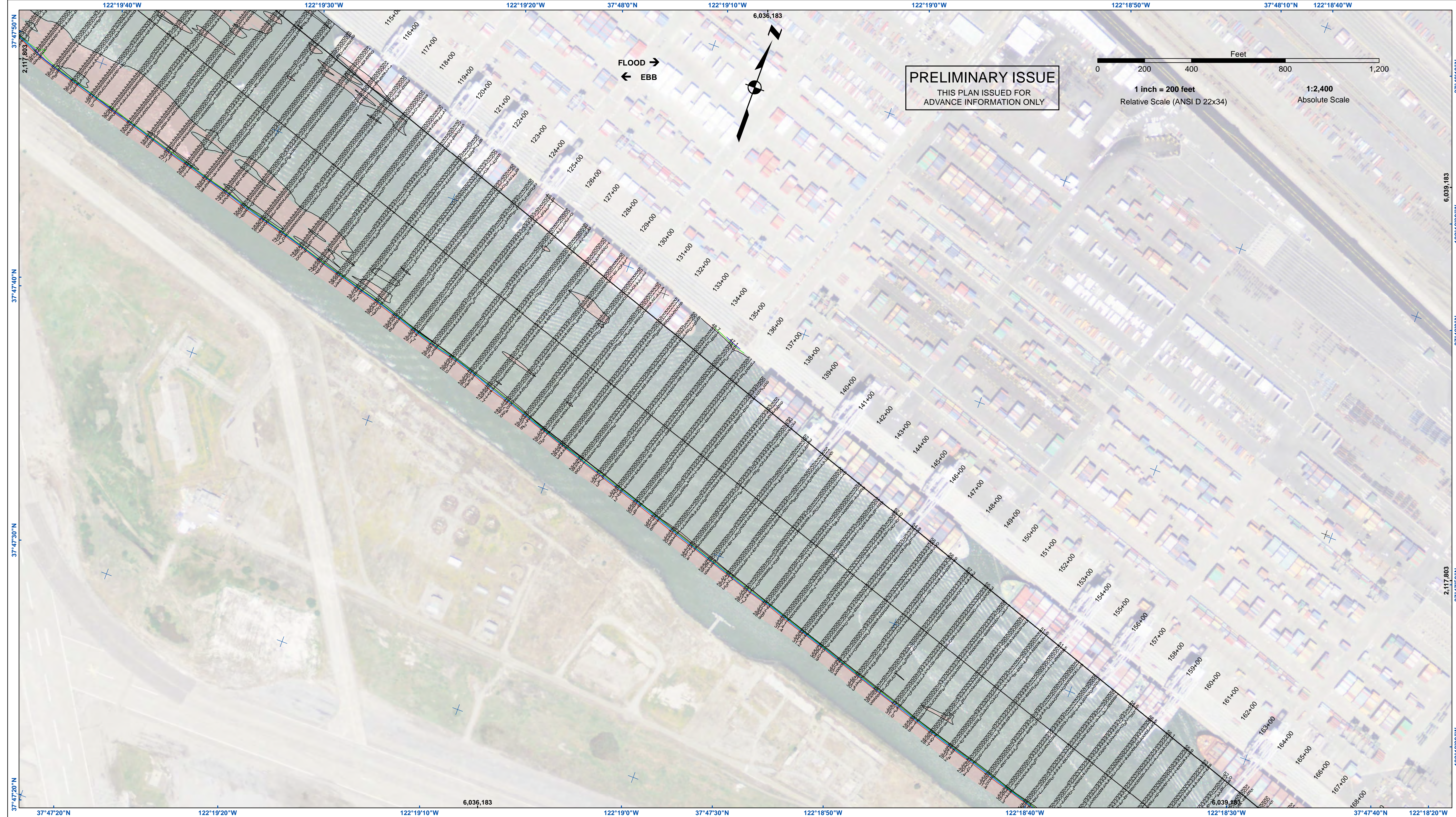
Sheet
Number
3 of 6



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-50
Placement Area	Navigation Buoy	-49
Anchorage Area	Navigation Buoy	-48
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Angle Point		

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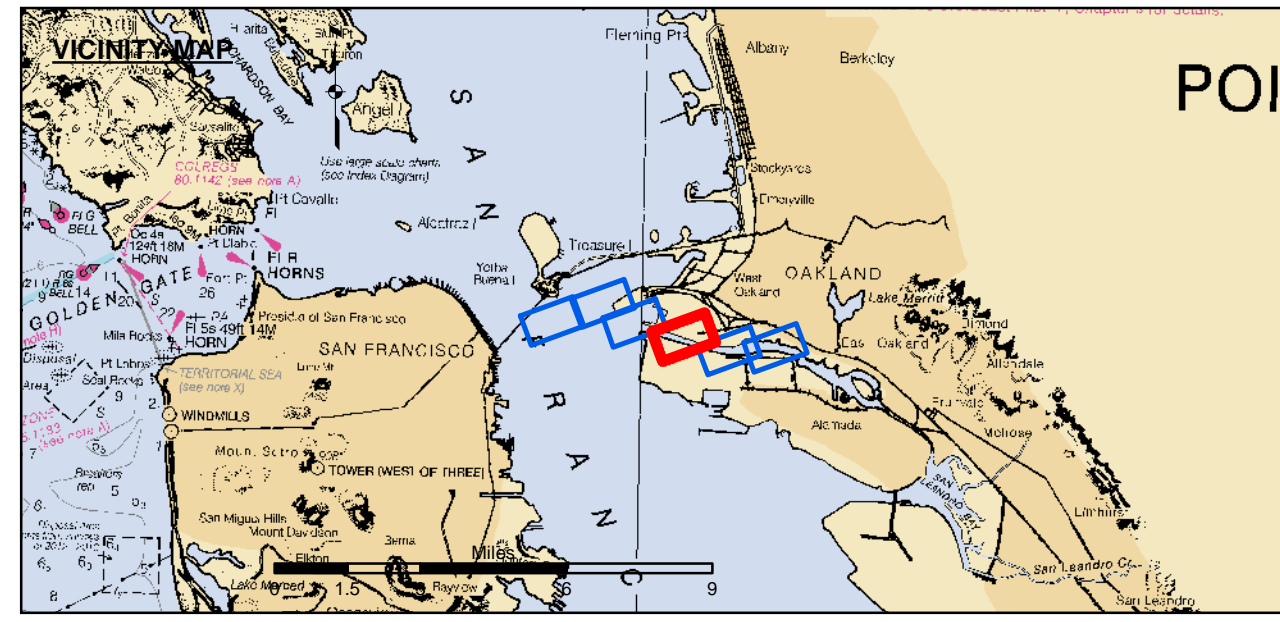
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Prepared Under the Direction of	Chart Date:
TIMOTHY W. SHEBESTA	Mar 12, 2024
LT COLONEL, C.E., DISTRICT ENGINEER	Designed by:
Subject: Hydro Survey Team Leader	Plotted By:
Recommendation: Navigation Technical Manager	Checked By:
Approved: Project Manager	Drawn by:
Surveyed By:	

ALAMEDA COUNTY
 OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 5-7 MARCH 2024

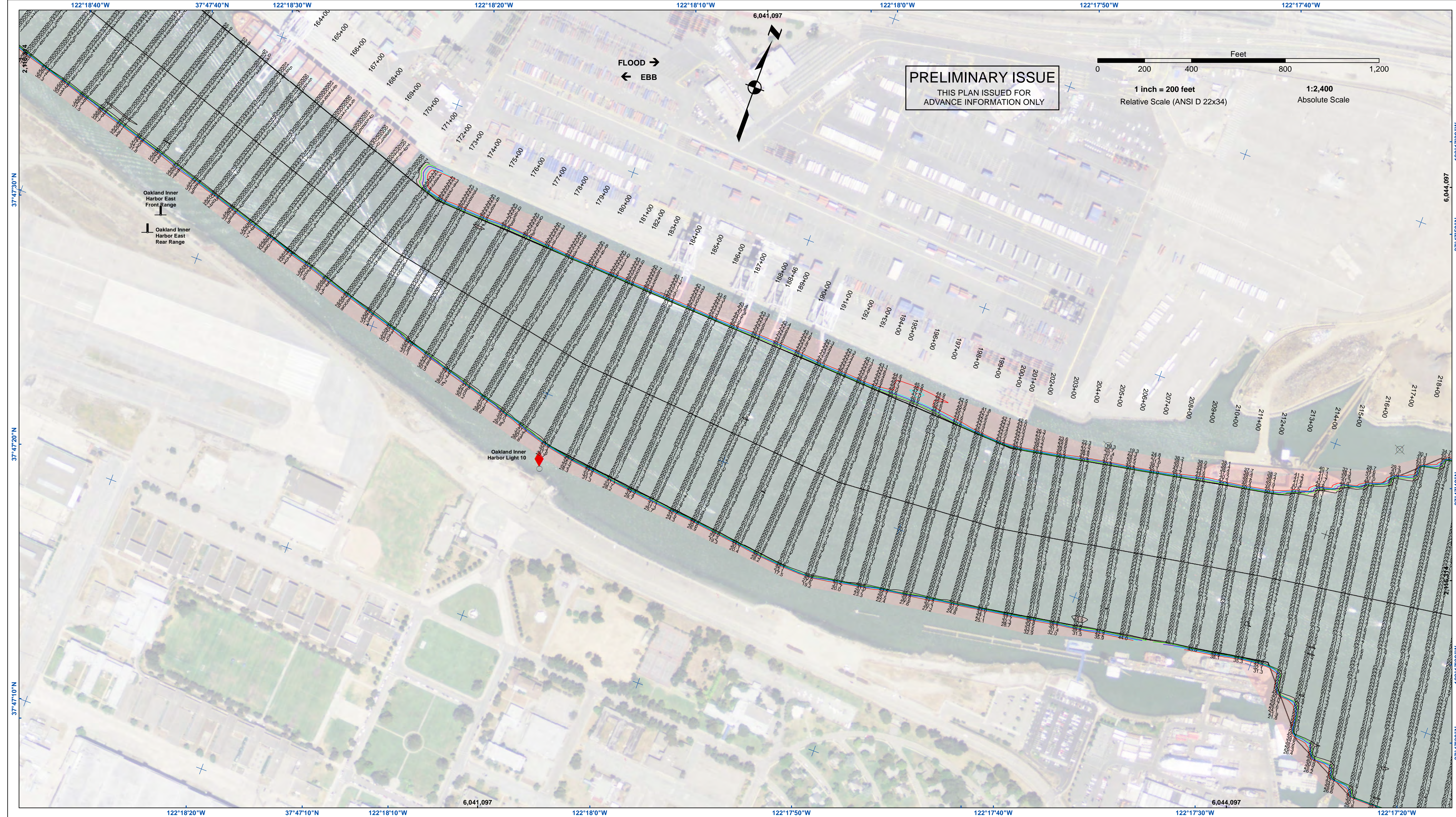


- Federal Navigation Channel
- Shoaling Area
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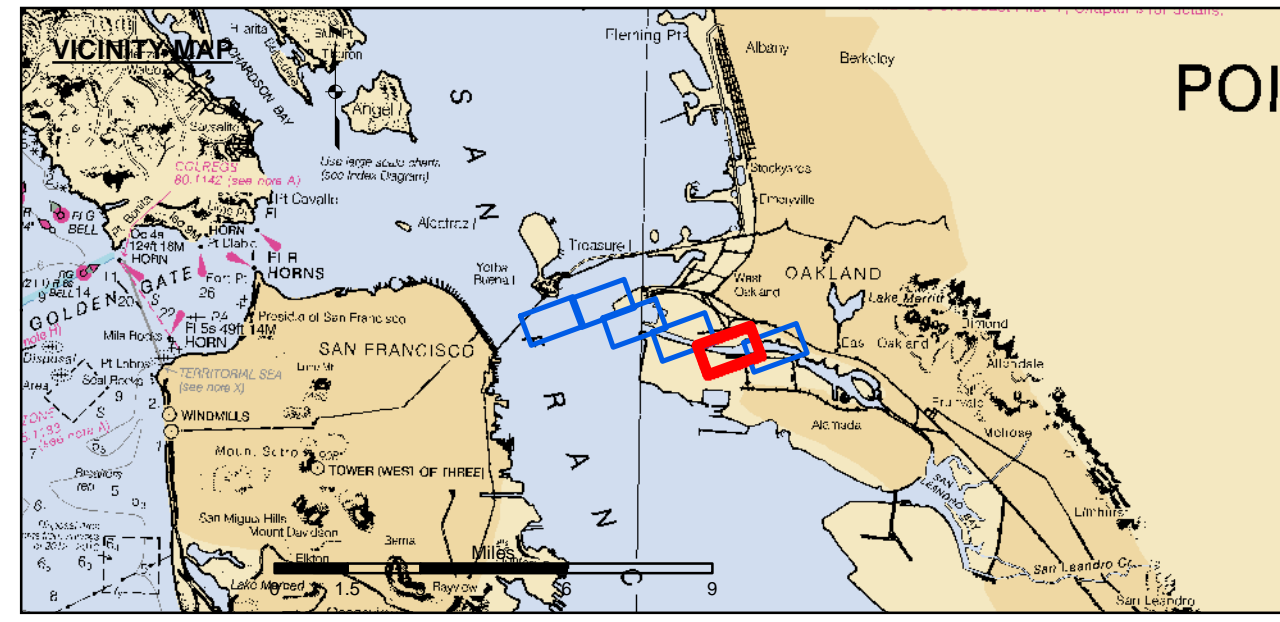
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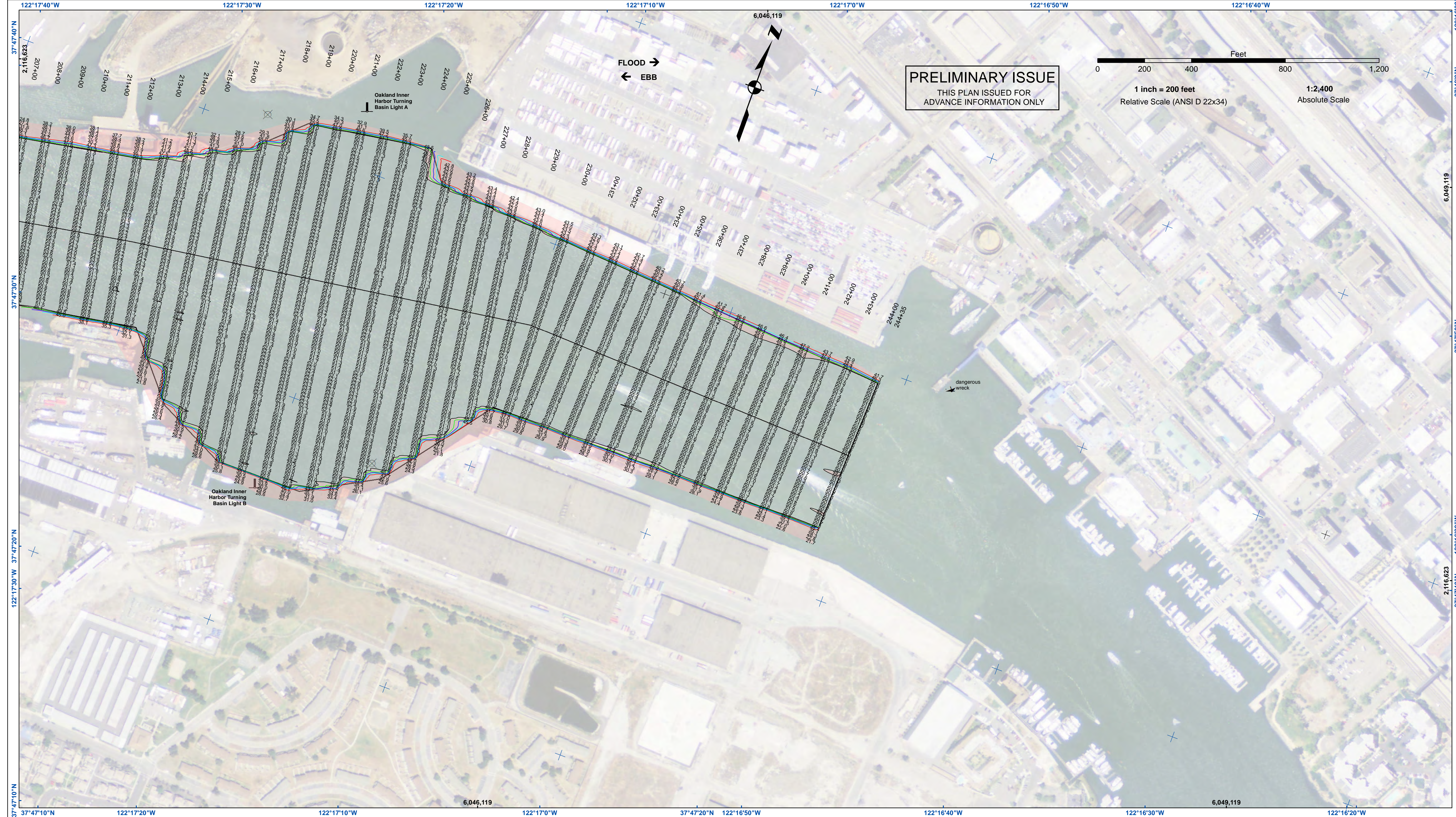
ALAMEDA COUNTY
OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 5-7 MARCH 2024



- | | | |
|----------------------------|--------------------|----------|
| Federal Navigation Channel | Beacon, General | Contours |
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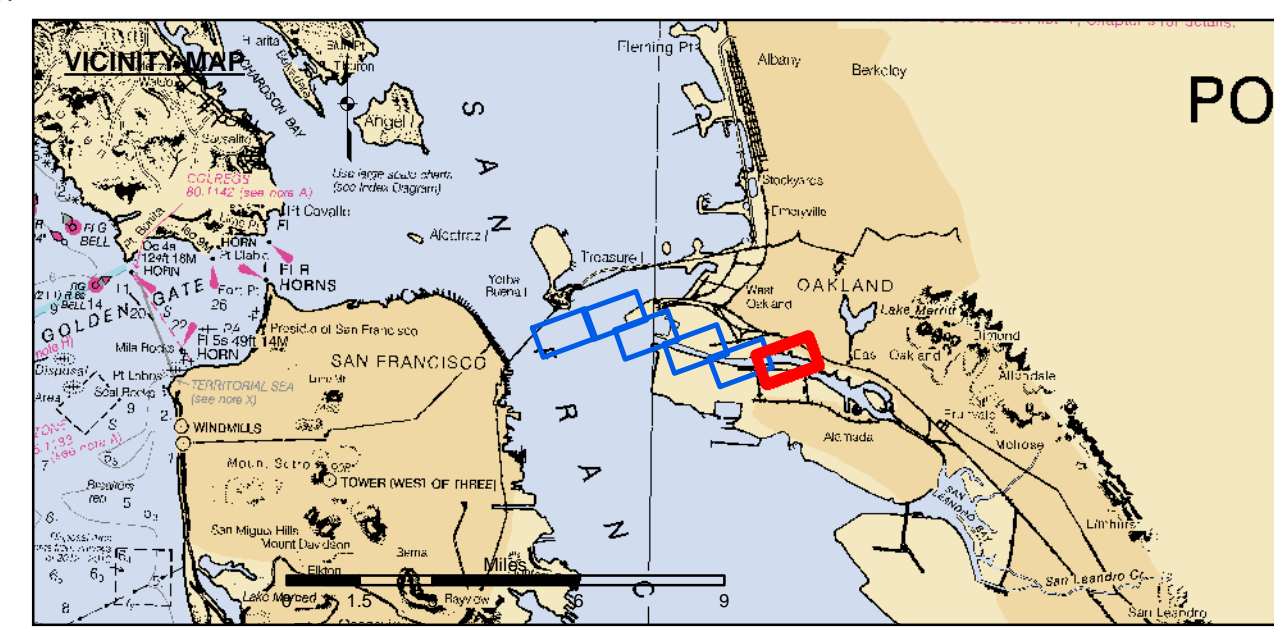


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Project Manager:	

ALAMEDA COUNTY
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- | | | |
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 THE PROJECT DEPTHS ARE AS FOLLOWS:
 OUTER AND INNER HARBOR IS -50 FEET
 INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS -35 FEET
 TIDAL CANAL PROJECT DEPTH IS -18 FEET
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 HORIZONTAL CONTROL:
 PRIMARY: RTK POSITIONING
 SECONDARY: COAST GUARD DGPS D-BEACON
 VERTICAL CONTROL:
 PRCP: PORT 1 1936/PID HT0654
 OAKLAND INNER REACH 4+0 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.
 LPOP 1: 941 4777 B TIDAL/PID AE211, 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.
 LPOP 2: OAK OUTER 1 2012/PID OAKLAND OUTER REACH 7+0 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 VDUTUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

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