



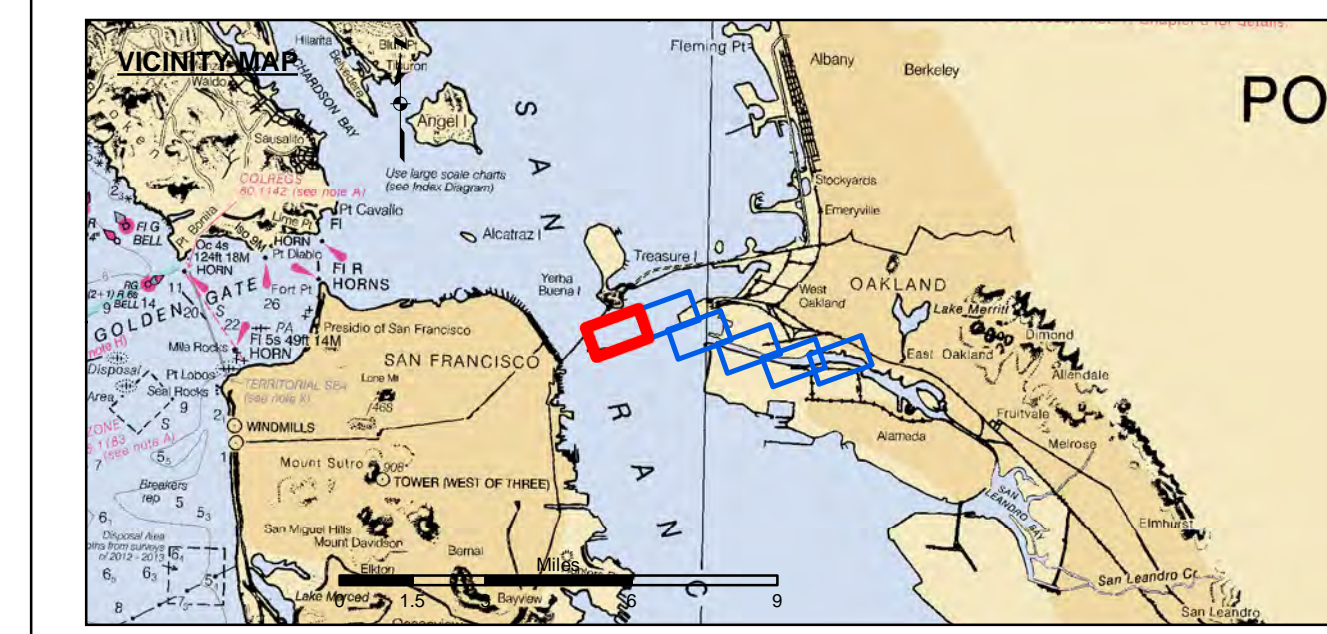
**US Army Corps of Engineers**  
 San Francisco District  
 450 Golden Gate Ave  
 San Francisco, CA 94102

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Prepared Under the Direction of	Chart Date:
LT COLONEL W. SHEBESTA	Jul 05, 2023
Submitted by:	Designed by:
Hydro Survey Team Leader	
Recommended by:	Checked by:
Navigation Technical Manager	
Approved by:	Drawn by:
Project Manager	

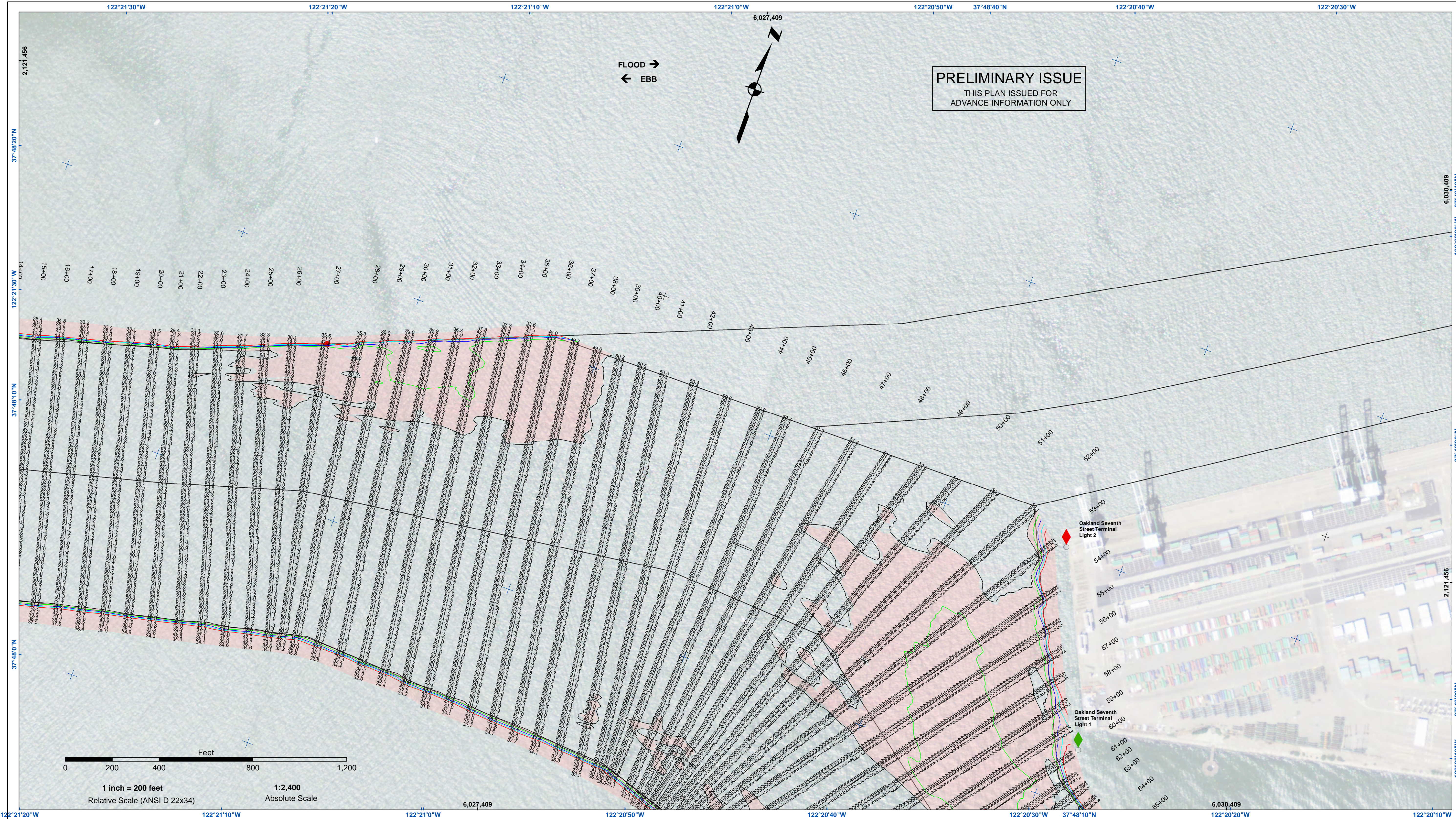
CALIFORNIA  
 ALAMEDA COUNTY  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 29 JUNE - 03 JULY 2023

**Sheet**  
**Number**  
**1 of 6**



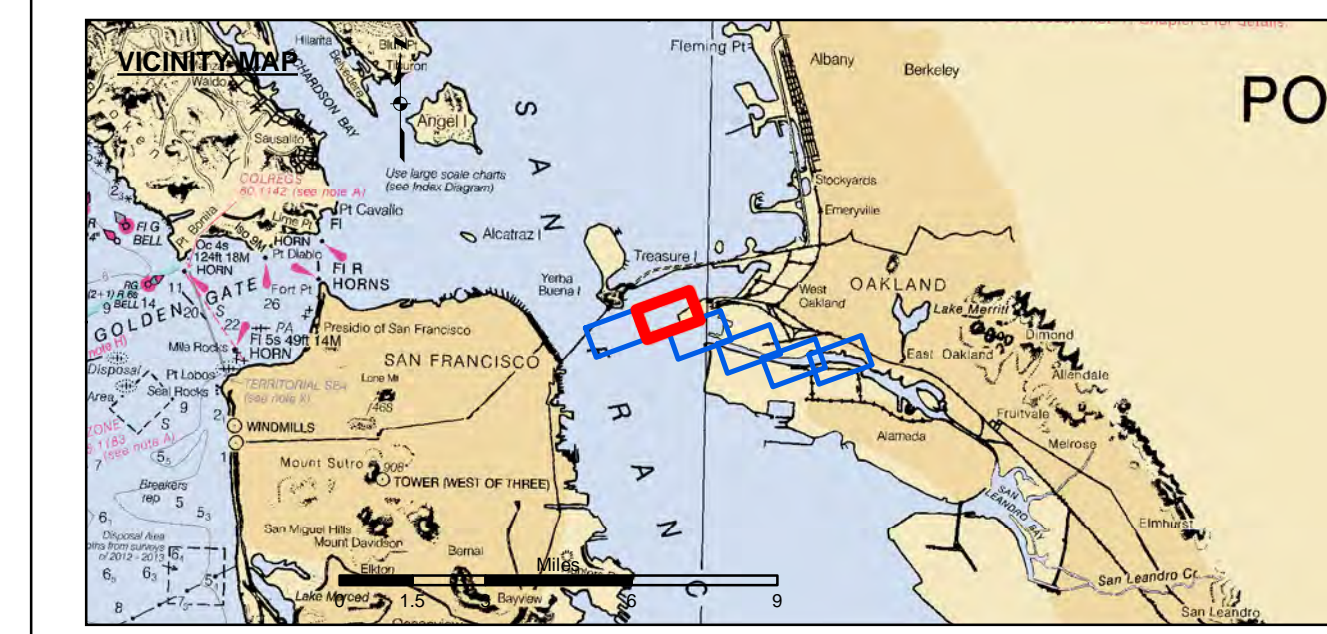
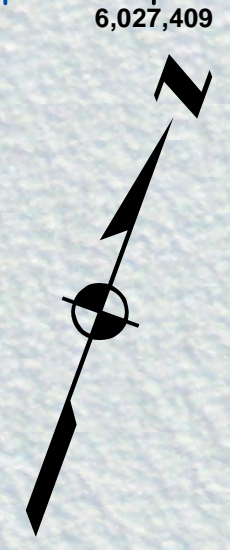
Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-50
Placement Area	Navigation Buoy	-49
Anchorage Area	Navigation Buoy	-48
Wreck Area	Shoalest Sounding*	-47
Submerged Wreck		-46
Angle Point		

**NOTES:**  
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 THE PROJECT DEPTHS ARE AS FOLLOWS:  
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 HORIZONTAL CONTROL:  
 PRIMARY: RTK POSITIONING  
 SECONDARY: COAST GUARD DGPS D-BEACON  
 VERTICAL CONTROL:  
 PRCP: PORT 1 1936/PID HT0654  
 OAKLAND INNER REACH 4+5 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER, ELEVATION: 9.56 FEET MLW - 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 VDATUM 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 VDATUM 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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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

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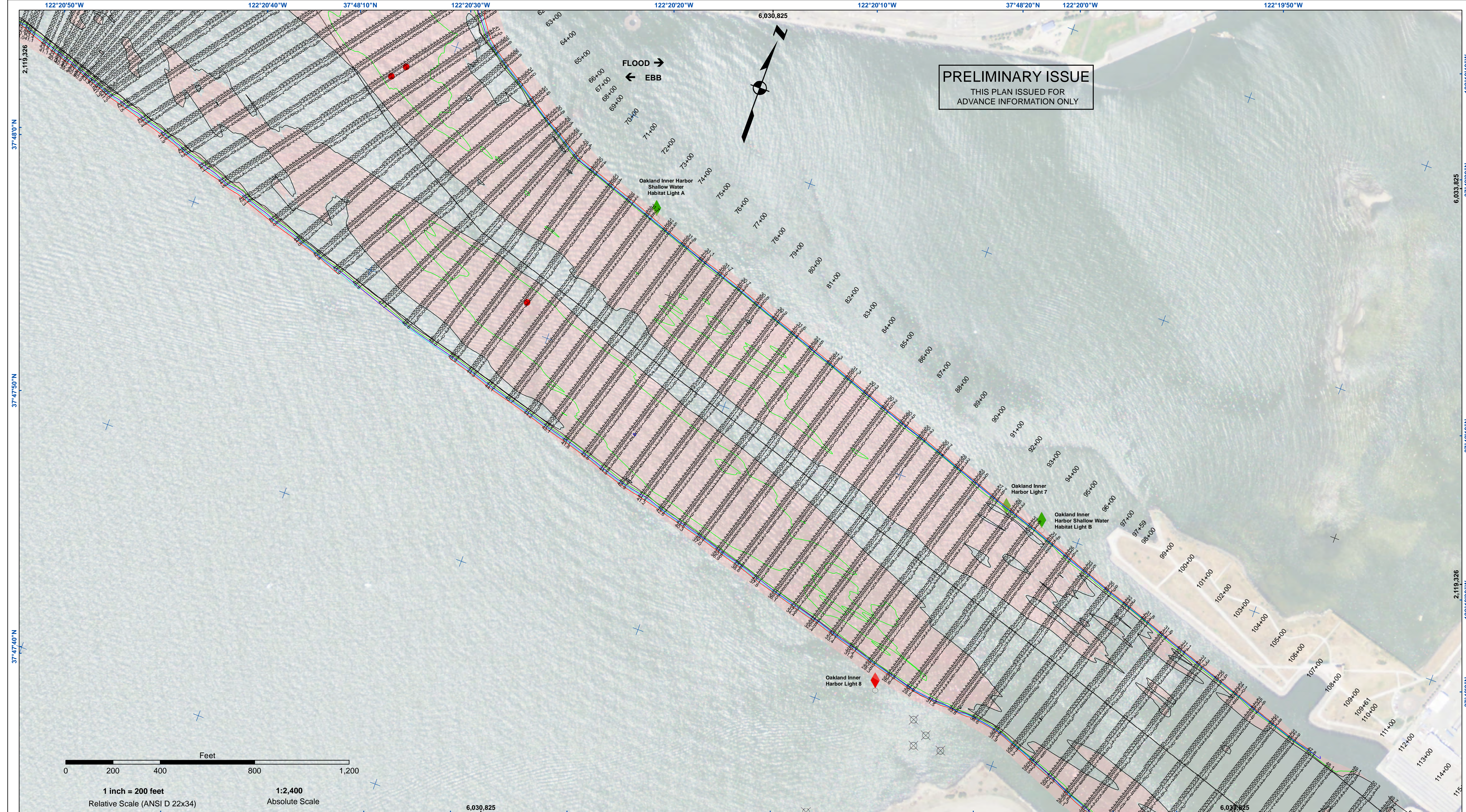
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LT COLONEL W. SHEBESTA	Jul 05, 2023
Subject:	Designed by:
Hydro Survey Team Leader	
Recommended	Checked by:
Navigation Technical Manager	
Approved:	Drawn by:
Project Manager	

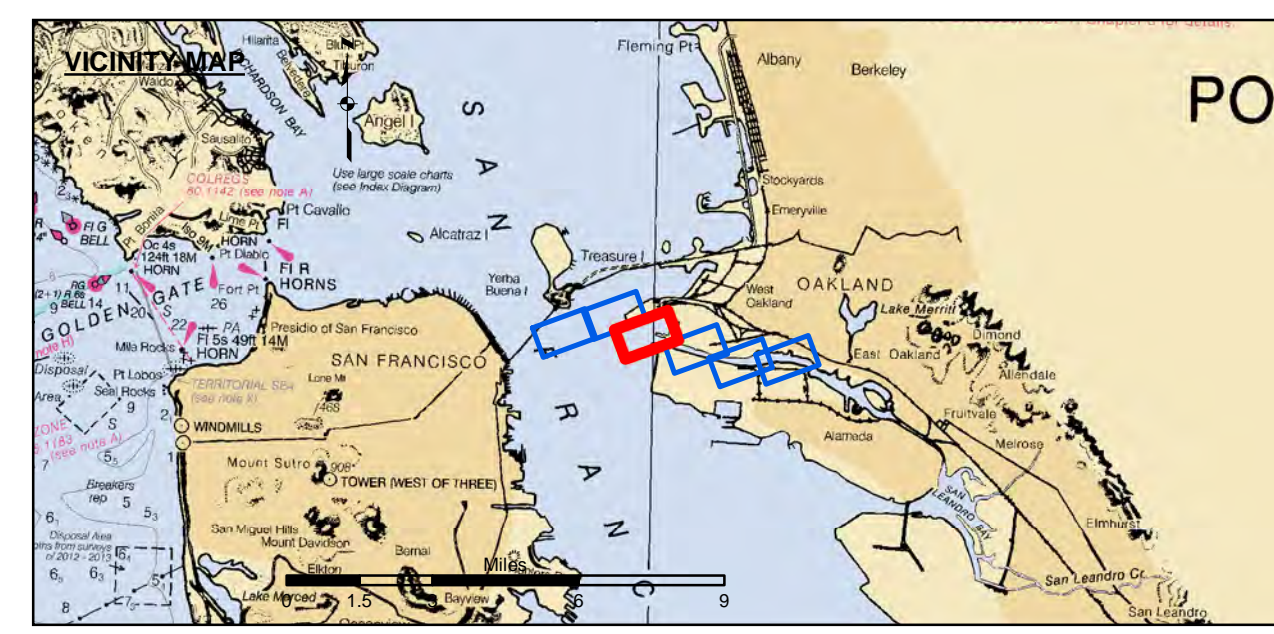
ALAMEDA COUNTY  
**OAKLAND HARBOR  
INNER HARBOR  
CONDITION SURVEY**  
29 JUNE - 03 JULY 2023

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

**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. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.  
SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.  
SURVEYED BY THE CORPS OF ENGINEERS. BASE MAPS ARE USDA NAIP 2010.  
\*SHOALEST SOUNDING PER QUARTER PER REACH

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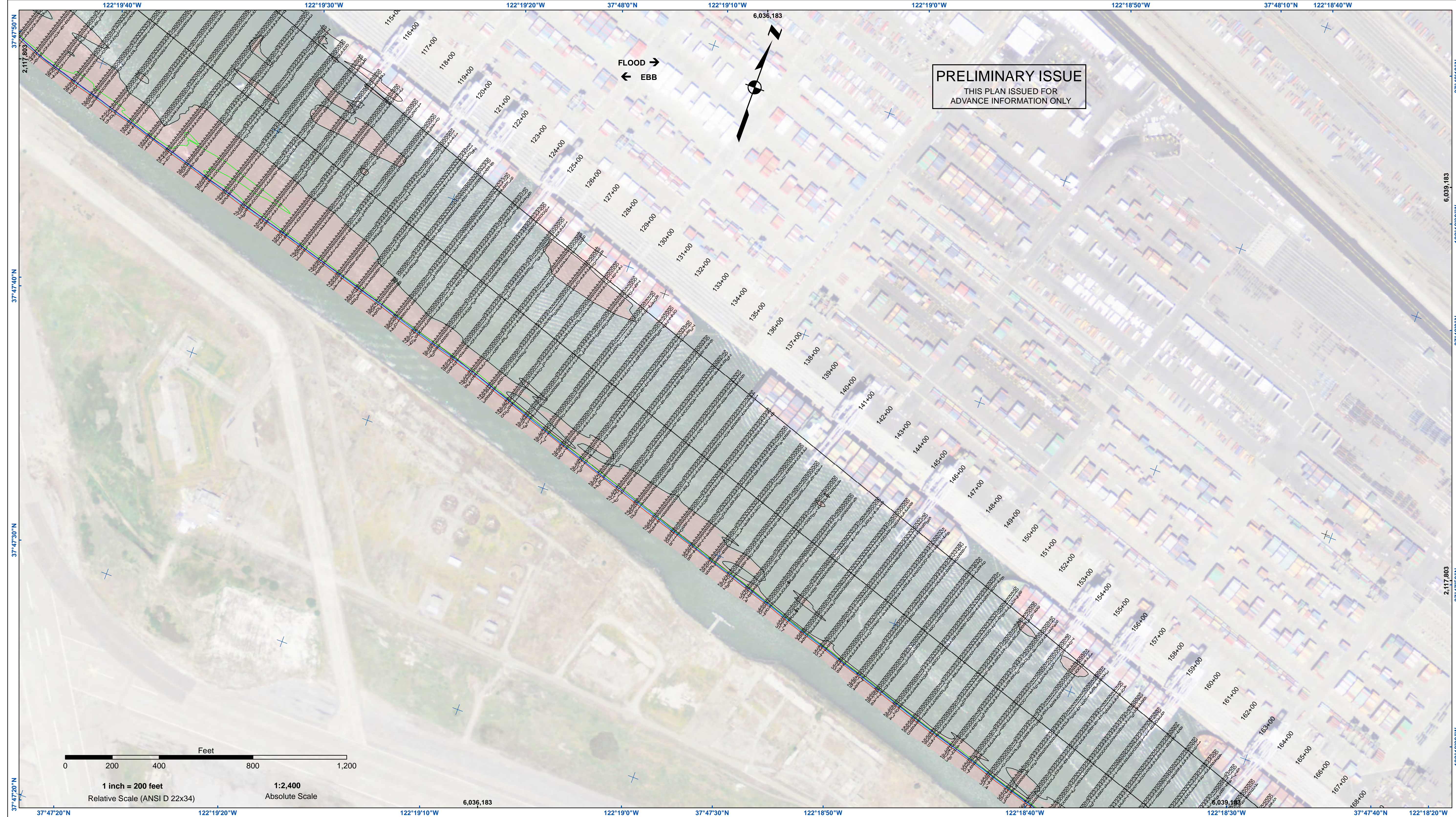
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Prepared Under the Direction of:	Chart Date:
LT COLONEL W. SHEBESTA	Jul 05, 2023
Submitted:	Designed by:
Hydro Survey Team Leader	
Recommended:	Checked by:
Navigation Technical Manager	
Approved:	Drawn by:
Project Manager	

CALIFORNIA  
ALAMEDA COUNTY  
**OAKLAND HARBOR  
INNER HARBOR  
CONDITION SURVEY**  
29 JUNE - 03 JULY 2023

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Reference  
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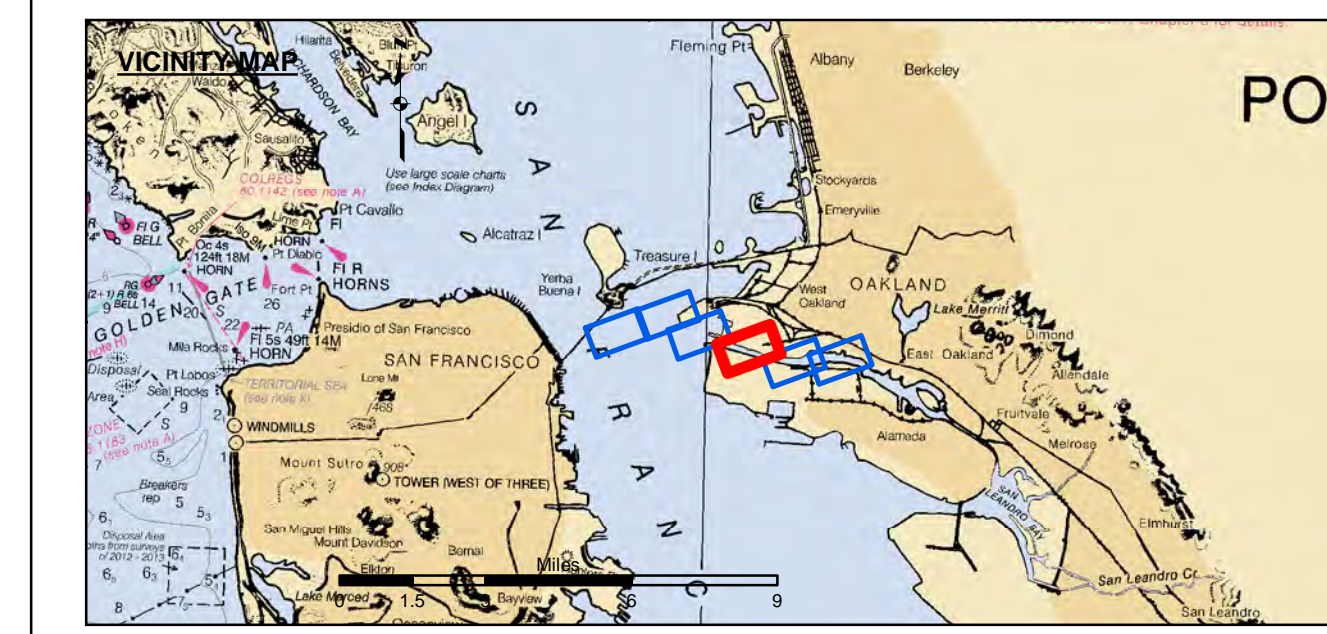
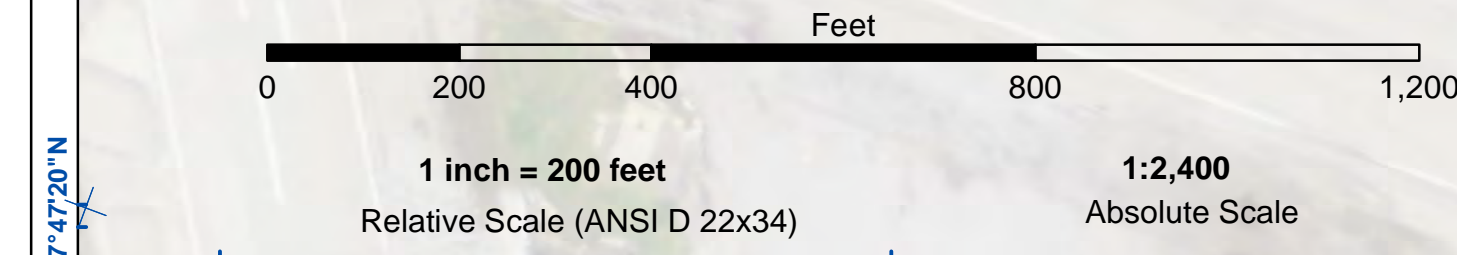


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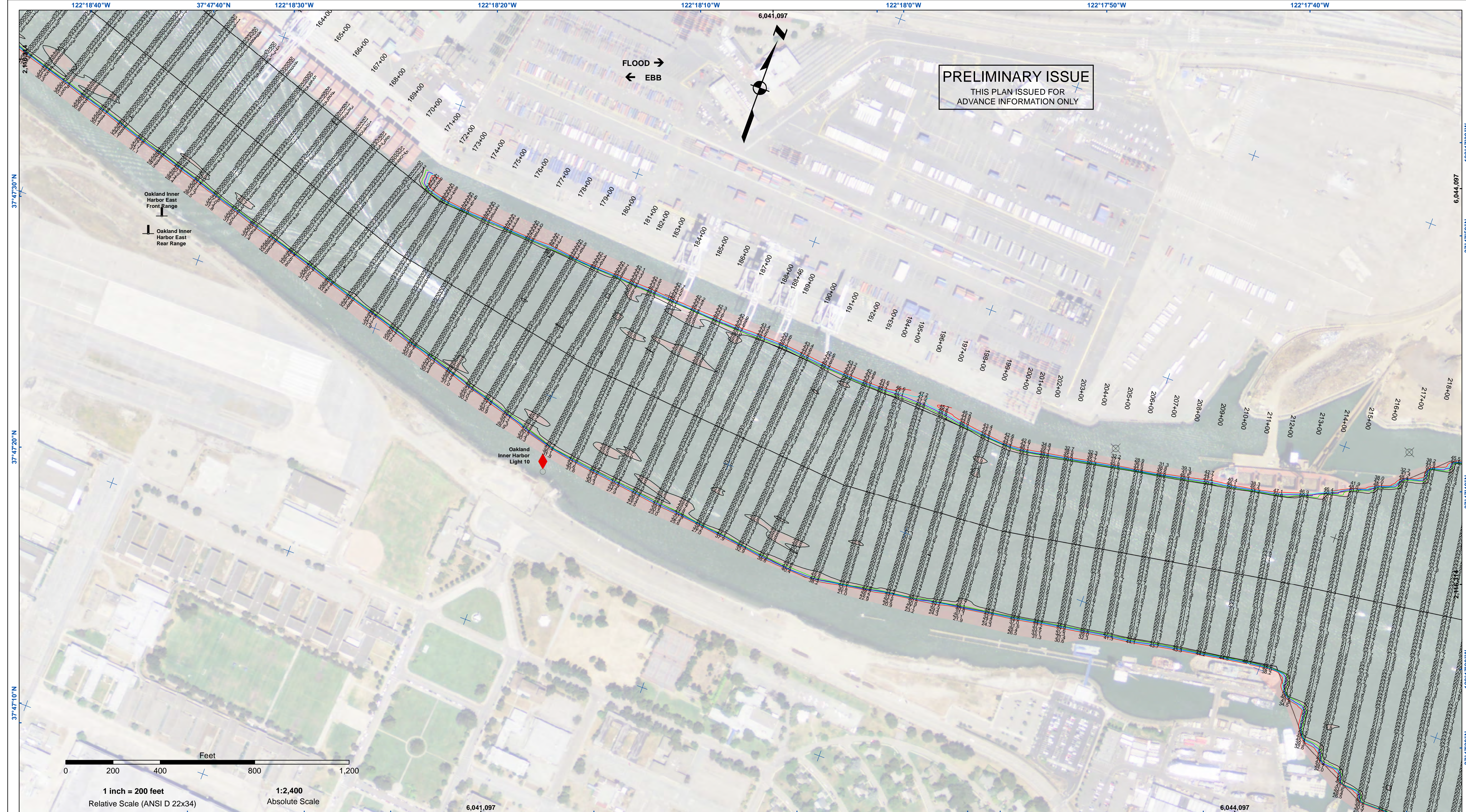
ALAMEDA COUNTY  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 29 JUNE - 03 JULY 2023

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**Number**  
**4 of 6**



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

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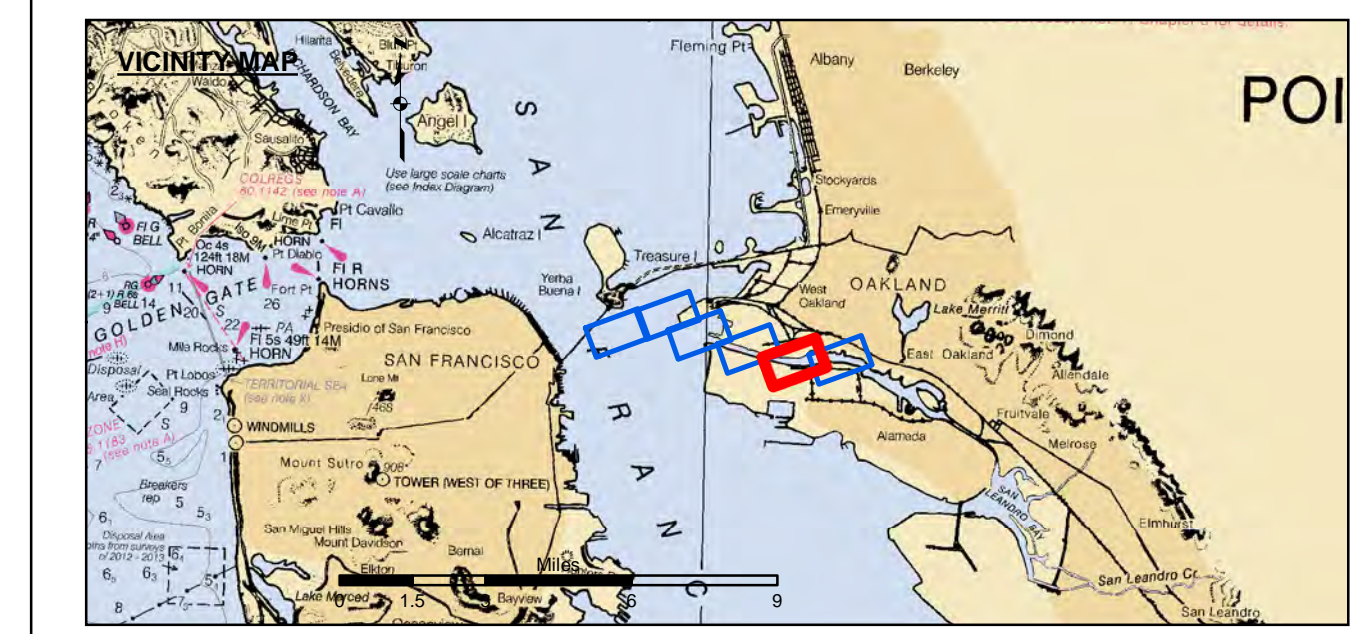
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Designed by:	
Drawn by:	
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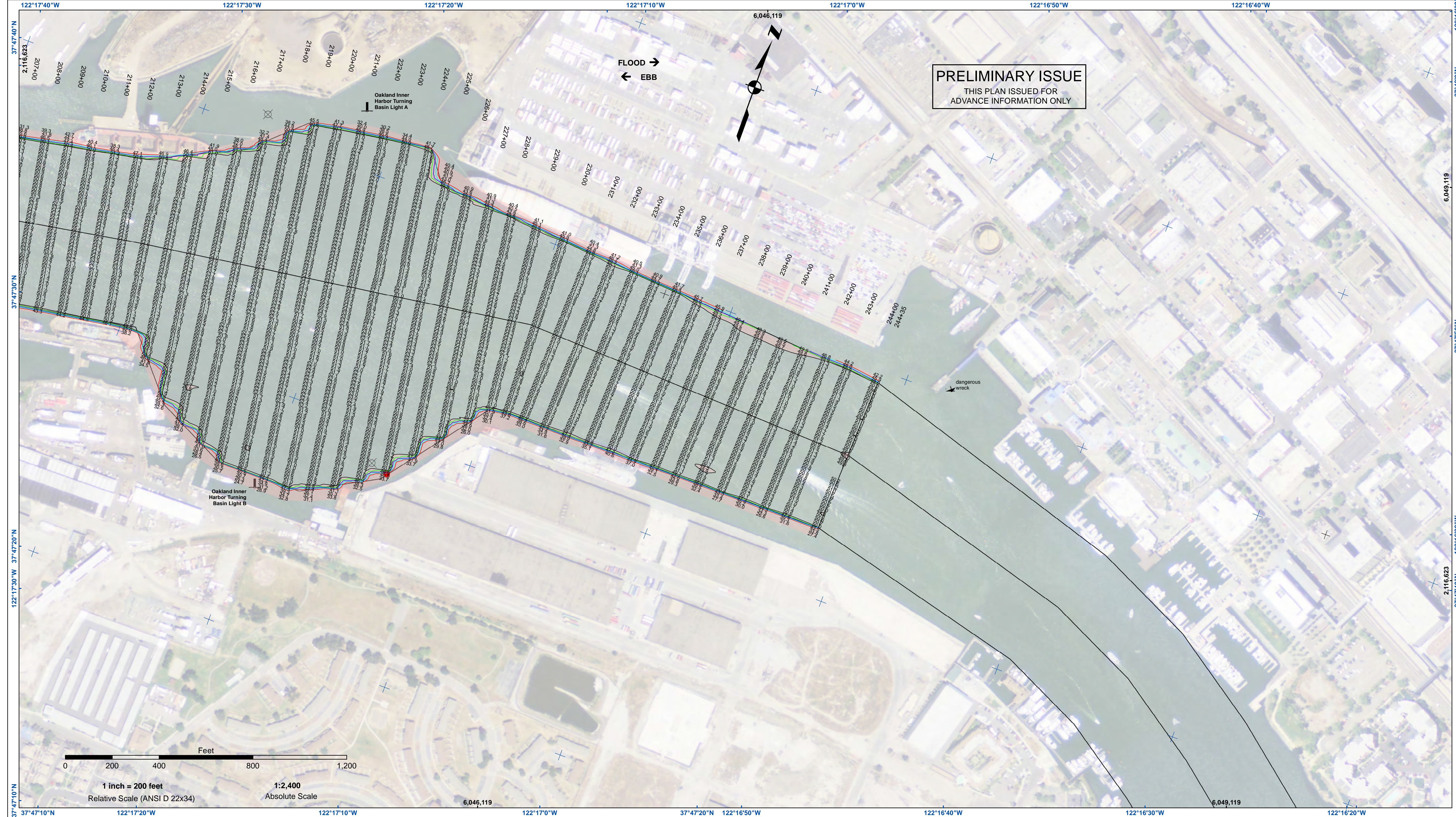
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29 JUNE - 03 JULY 2023

**Sheet  
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5 of 6



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

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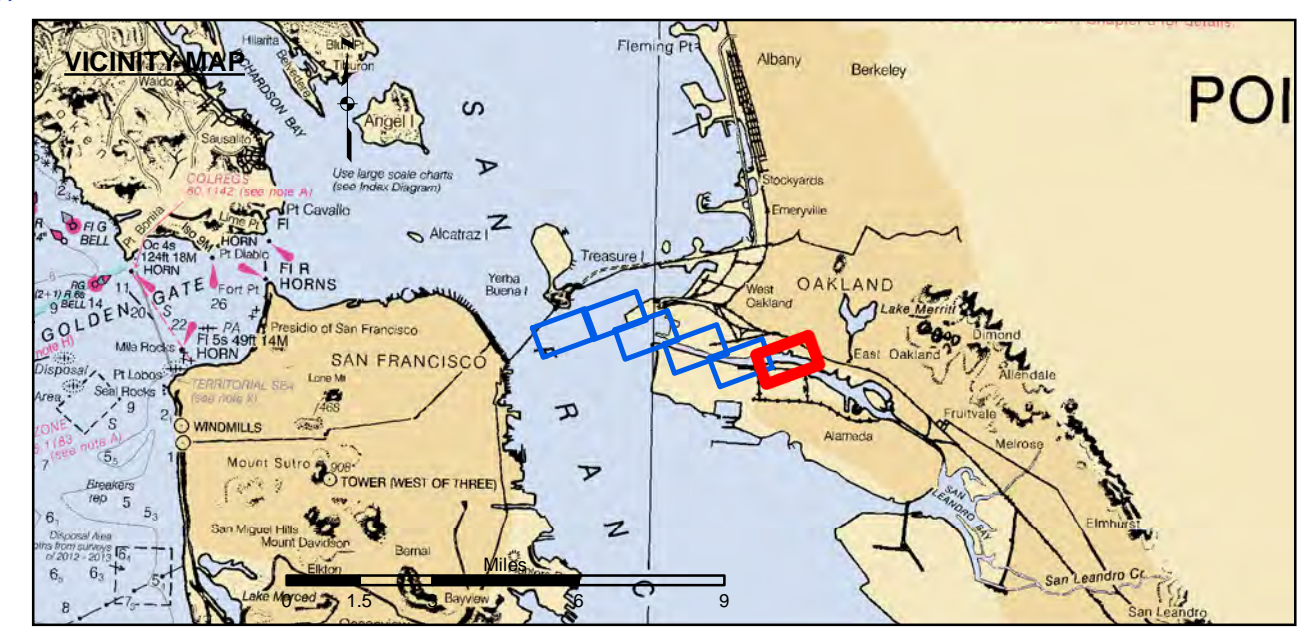
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Prepared Under the Direction of <b>TIMOTHY W. SHEBESTA</b> LT Colonel, C.E., District Engineer	Chart Date: Jul 05, 2023
Submitted by: Hydro Survey Team Leader	Designed by:
Recommended by: Navigation Technical Manager	Drawn by:
Approved by: Project Manager	

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 ALAMEDA COUNTY  
**OAKLAND HARBOR**  
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**CONDITION SURVEY**  
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