



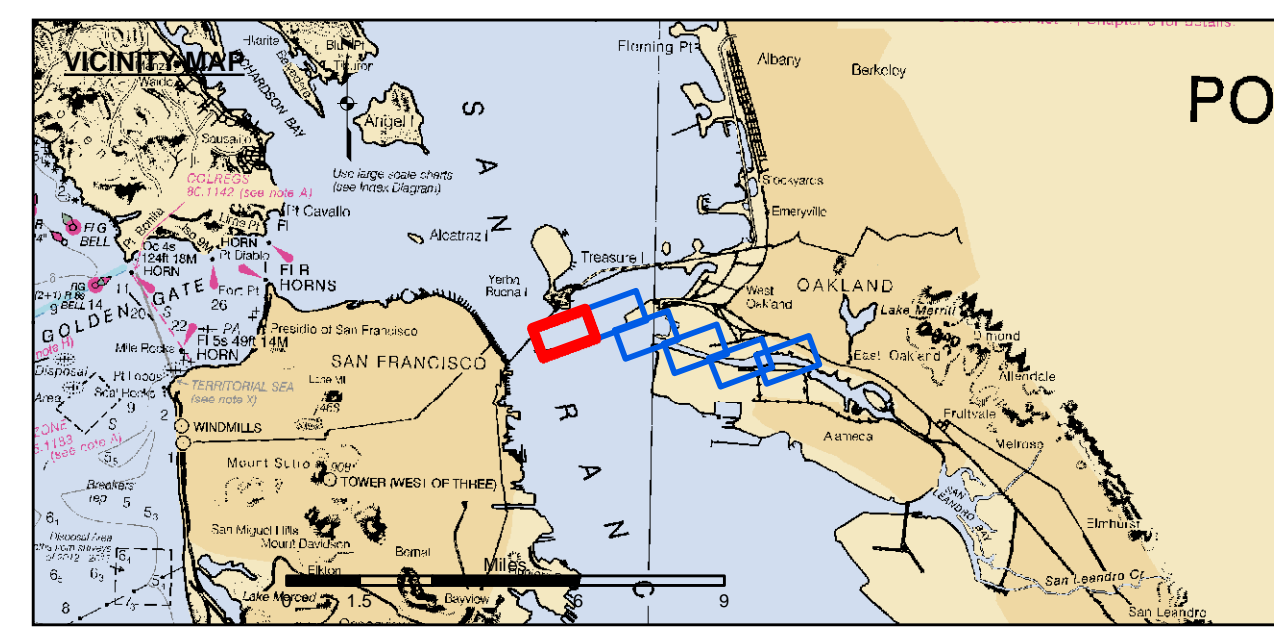
**US Army Corps of Engineers**  
 San Francisco District  
 450 Golden Gate Ave  
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Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Mar 01, 2021
Submitted: Hydro Survey Team Leader	Designed by:
Recommended: Navigation Technical Manager	Drawn by:
Approved: Project Manager	

CALIFORNIA  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 24 FEBRUARY 2021

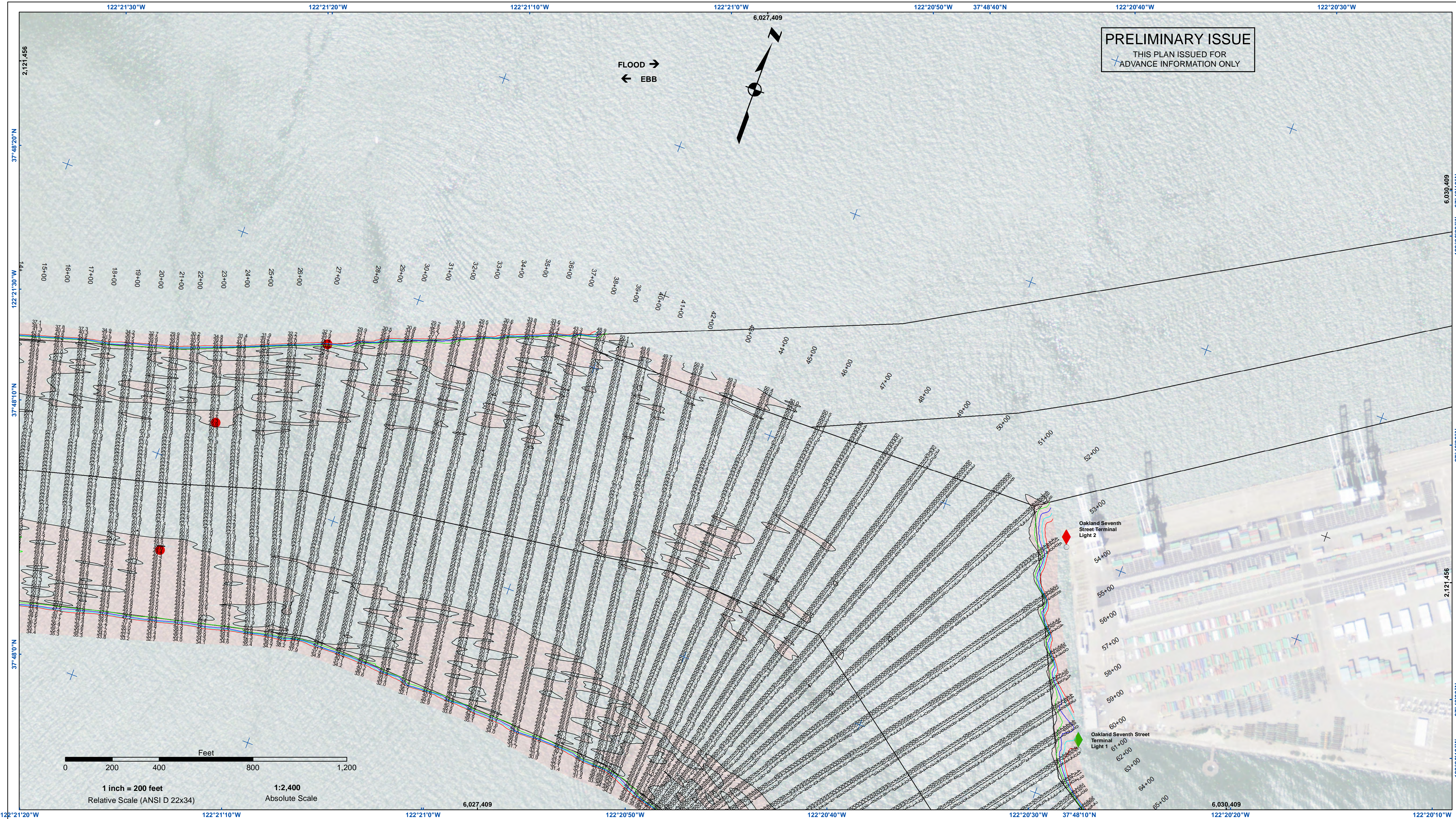
**Sheet**  
**Number**  
**1 of 6**



- |                            |                    |          |
|----------------------------|--------------------|----------|
| 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                |                    |          |

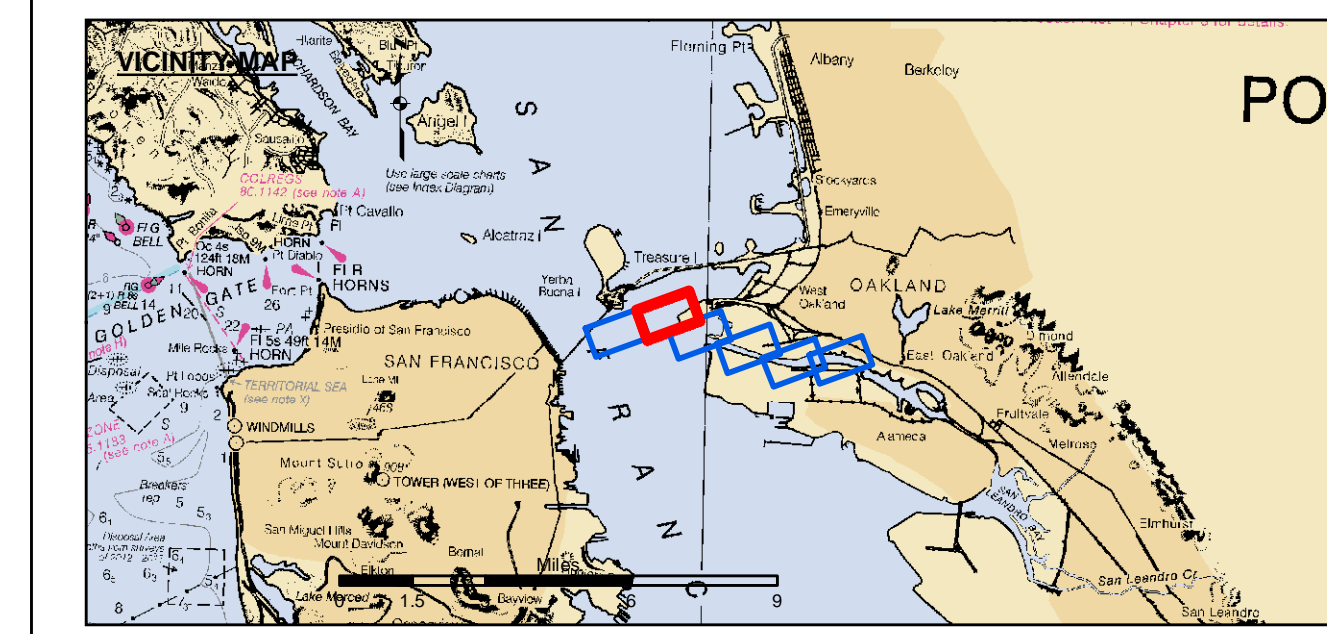
**NOTES:**  
 HORIZONTAL COORDINATE SYSTEM:  
 NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.  
 VERTICAL DATUM:  
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.  
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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

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 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. 236, PUBLISHED BY THE NATIONAL OCEAN SURVEY.  
 HORIZONTAL CONTROL:  
 PRIMARY: RTK POSITIONING  
 SECONDARY: COAST GUARD DGPS D-BEACON  
 VERTICAL CONTROL:  
 PCIP: PORT 1 1936/PID HT0654.  
 OAKLAND INNER REACH 448 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. ELEVATION: 956 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 AE5211, 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 2012ND 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 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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HORIZONTAL CONTROL:  
PRIMARY: RTK POSITIONING  
SECONDARY: COAST GUARD DGPS D-BEACON  
VERTICAL CONTROL:  
PPCP: PORT 1 1936/PID HT0854  
OAKLAND INNER REACH 44 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.  
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Chart Date:	Mar 01, 2021
Designed by:	
Drawn by:	
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	Hydro Survey Team Leader
Checked By:	Navigation Technical Manager
Project Manager:	

CALIFORNIA  
ALAMEDA COUNTY  
OAKLAND HARBOR  
INNER HARBOR  
CONDITION SURVEY  
24 FEBRUARY 2021

Sheet  
Reference  
Number  
**2 of 6**

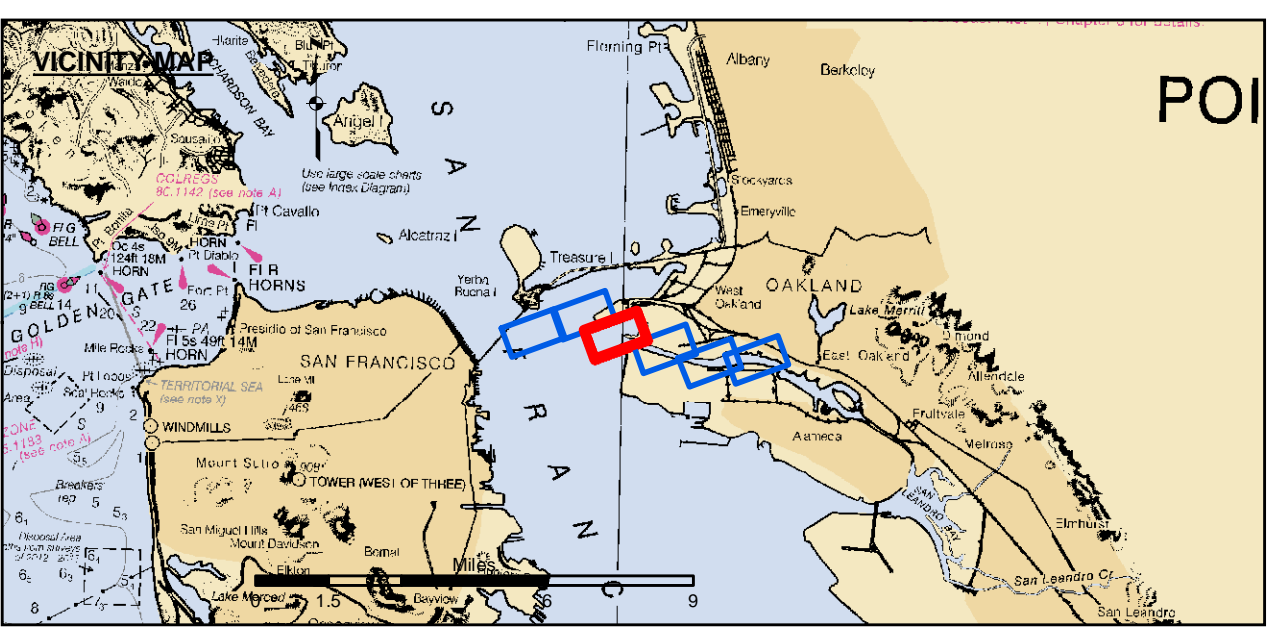
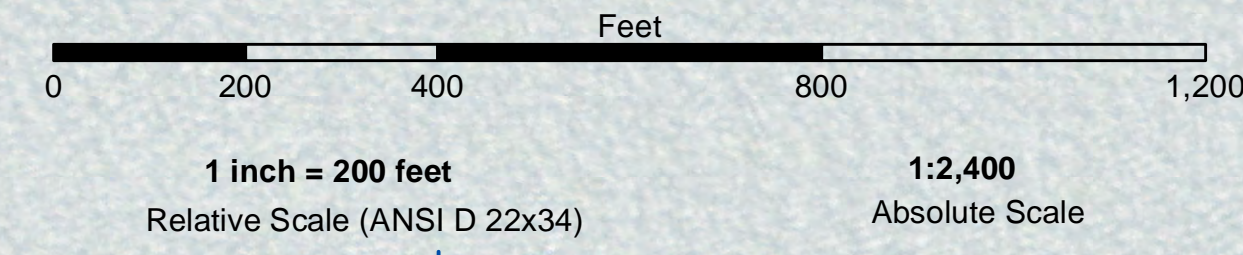


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Prepared Under the Direction of	Chart Date:
JOHN D. CUNNINGHAM	Mar 01, 2021
LT Colonel, C.E., District Engineer	Designed by:
Submittal:	Hydro Survey Team Leader
Recommendation:	Navigation Technical Manager
Approved:	Project Manager
Surveyed By:	Plotted By:
Checked By:	Drawn by:



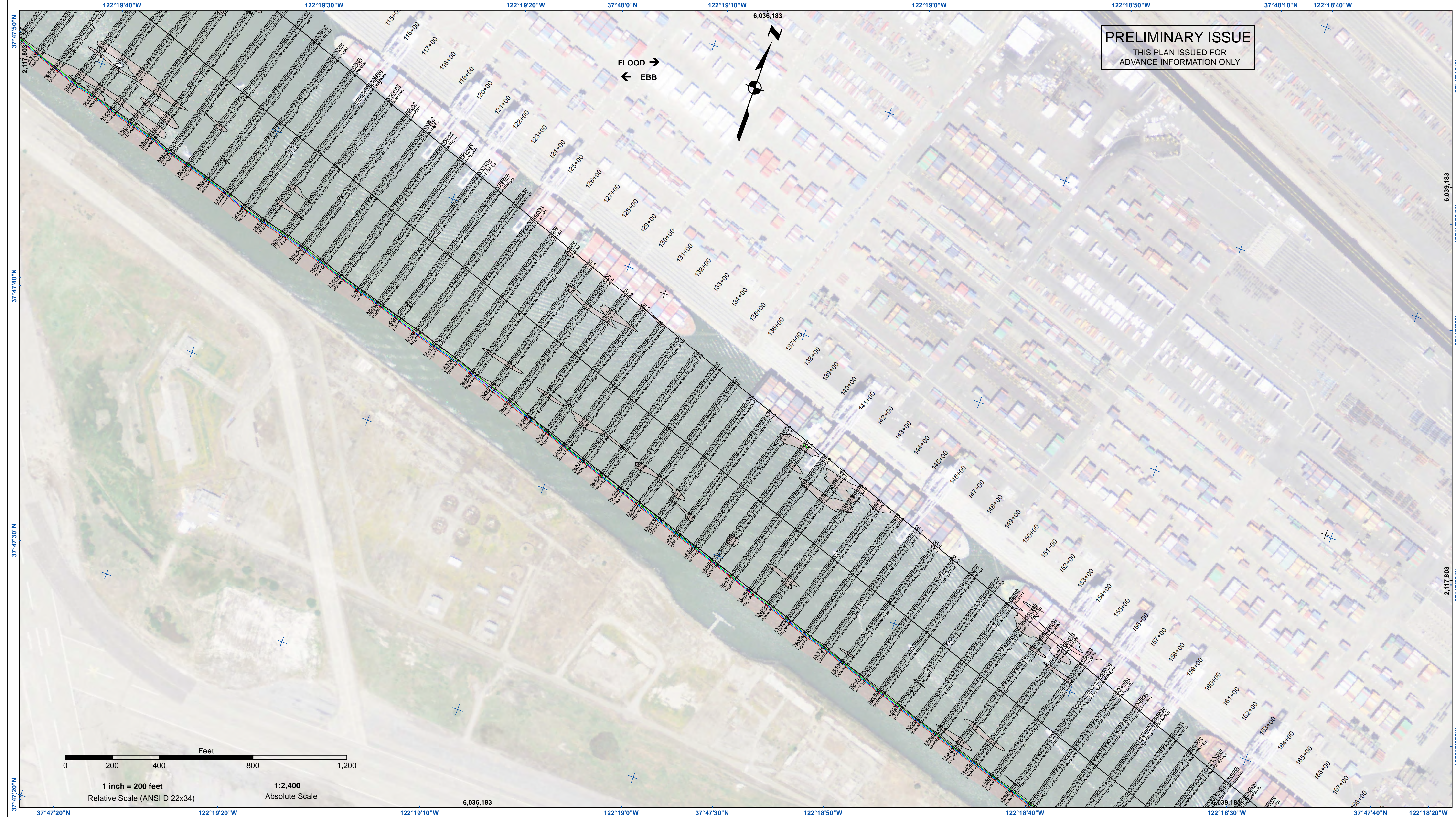
	Federal Navigation Channel		Beacon, General		Contours
	Shoaling Area		Obstruction Point		-50
	Placement Area		Navigation Buoy		-49
	Anchorage Area		Navigation Buoy		-48
	Wreck Area		Shoalest Sounding*		-47
	Submerged Wreck		Shoalest Sounding*		-46
	Angle Point				

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VERTICAL CONTROL: PRCP: PORT 1 1936/PID HT0854. OAKLAND INNER REACH 4+8 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 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 7-10 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 VDATUM MODELS. TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

CALIFORNIA  
ALAMEDA COUNTY  
**OAKLAND HARBOR**  
INNER HARBOR  
CONDITION SURVEY  
24 FEBRUARY 2021

**Sheet Reference Number**  
**3 of 6**

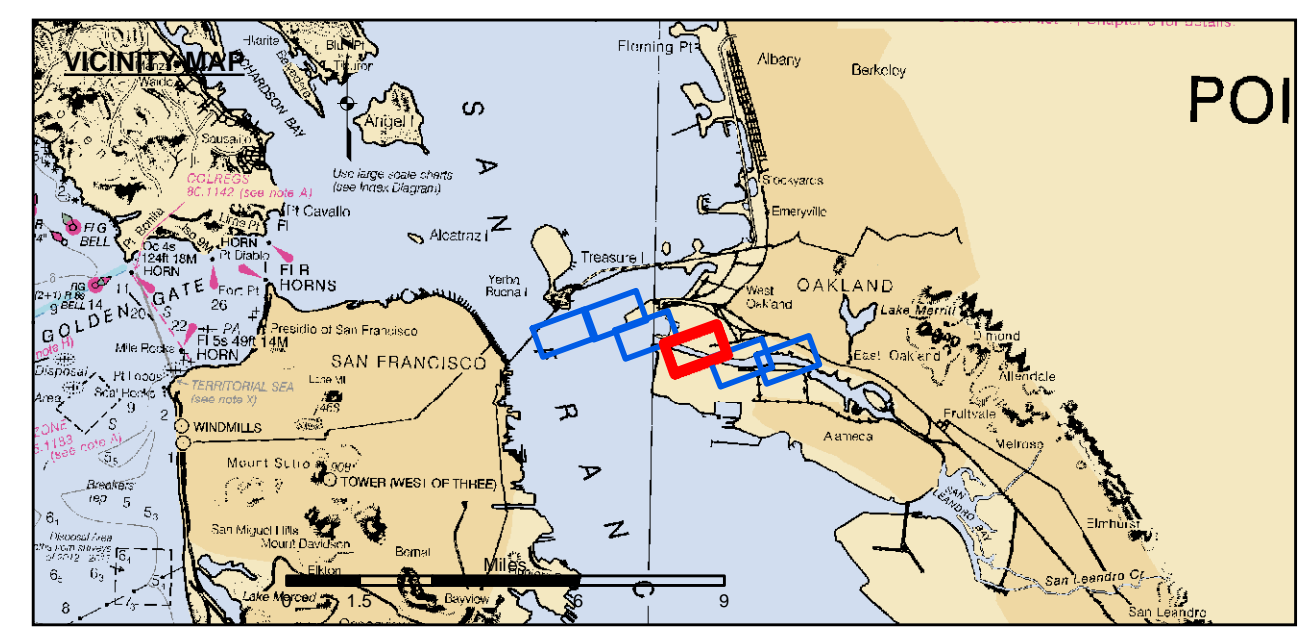


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Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Mar 01, 2021
Submitted: Hydro Survey Team Leader	Designed by:
Recommended: Navigation Technical Manager	Drawn by:
Approved: Project Manager	Checked by:
Surveyed By:	Plotted By:

ALAMEDA COUNTY  
CALIFORNIA  
**OAKLAND HARBOR**  
INNER HARBOR  
CONDITION SURVEY  
24 FEBRUARY 2021

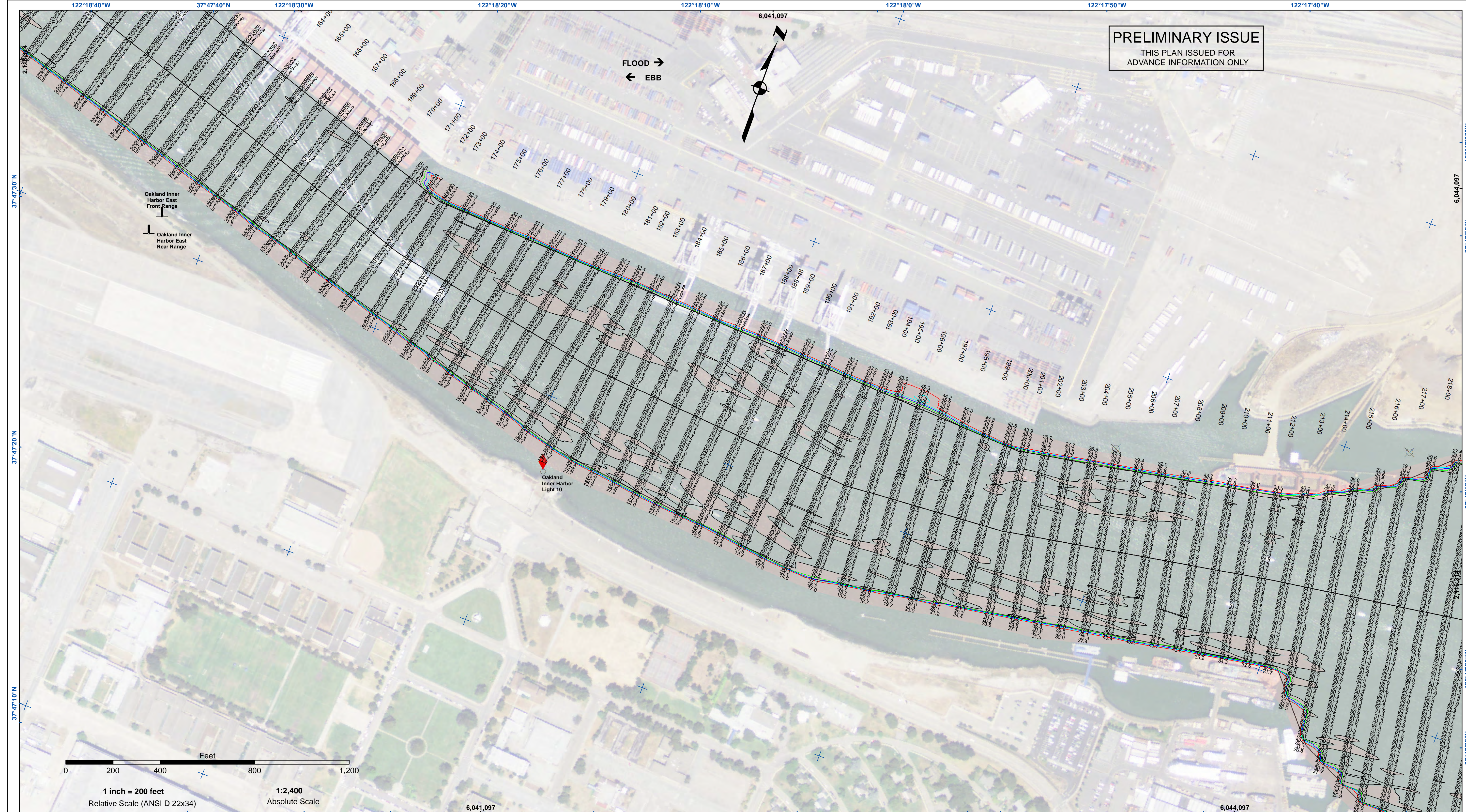
**Sheet Reference Number**  
4 of 6



- 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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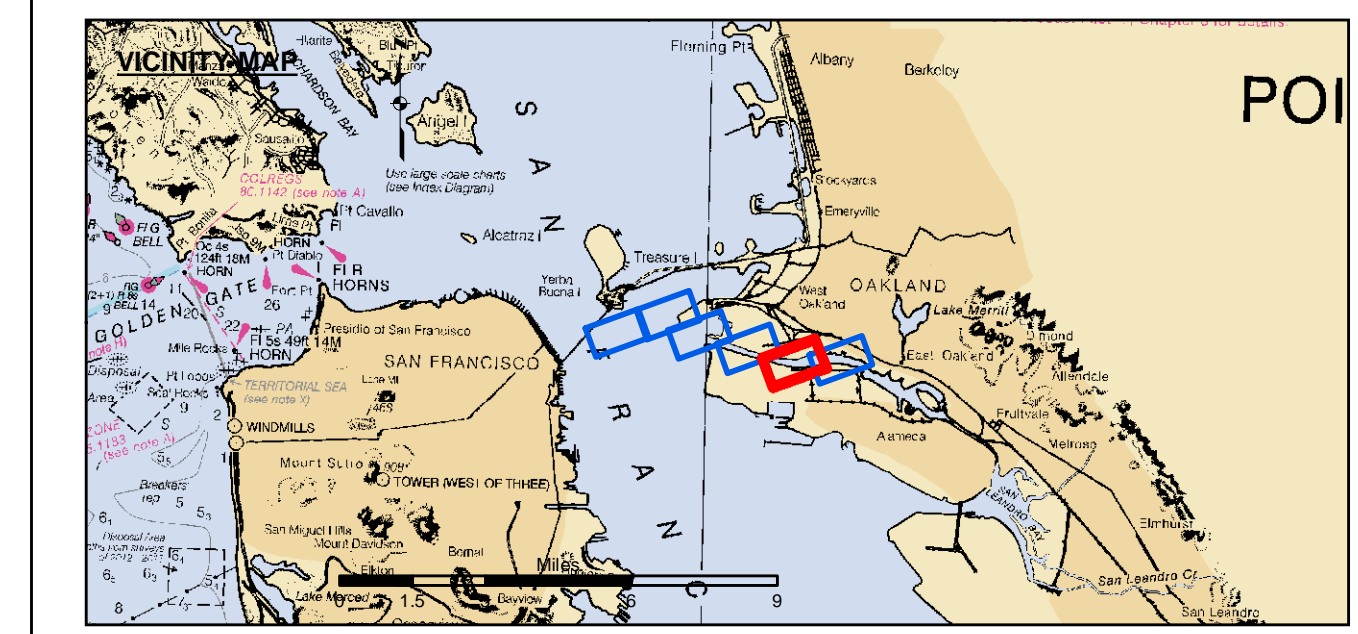
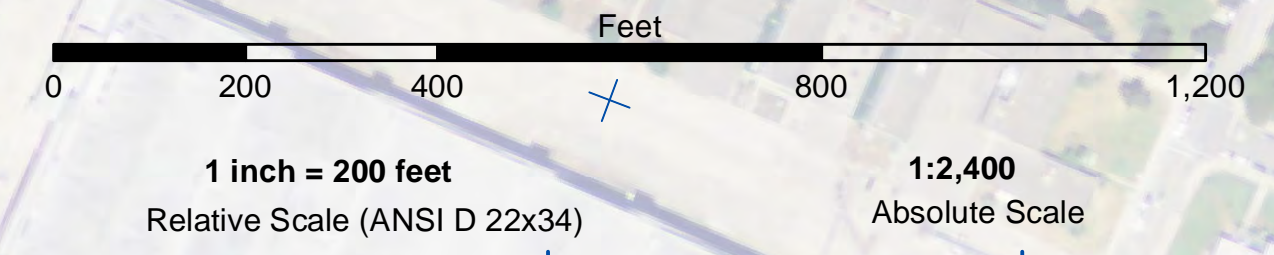
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FLOOD →  
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Oakland Inner Harbor East Front Range  
Oakland Inner Harbor East Rear Range

Oakland Inner Harbor Light 10



	Federal Navigation Channel		Beacon, General		Contours
	Shoaling Area		Obstruction Point		-50
	Placement Area		Navigation Buoy		-49
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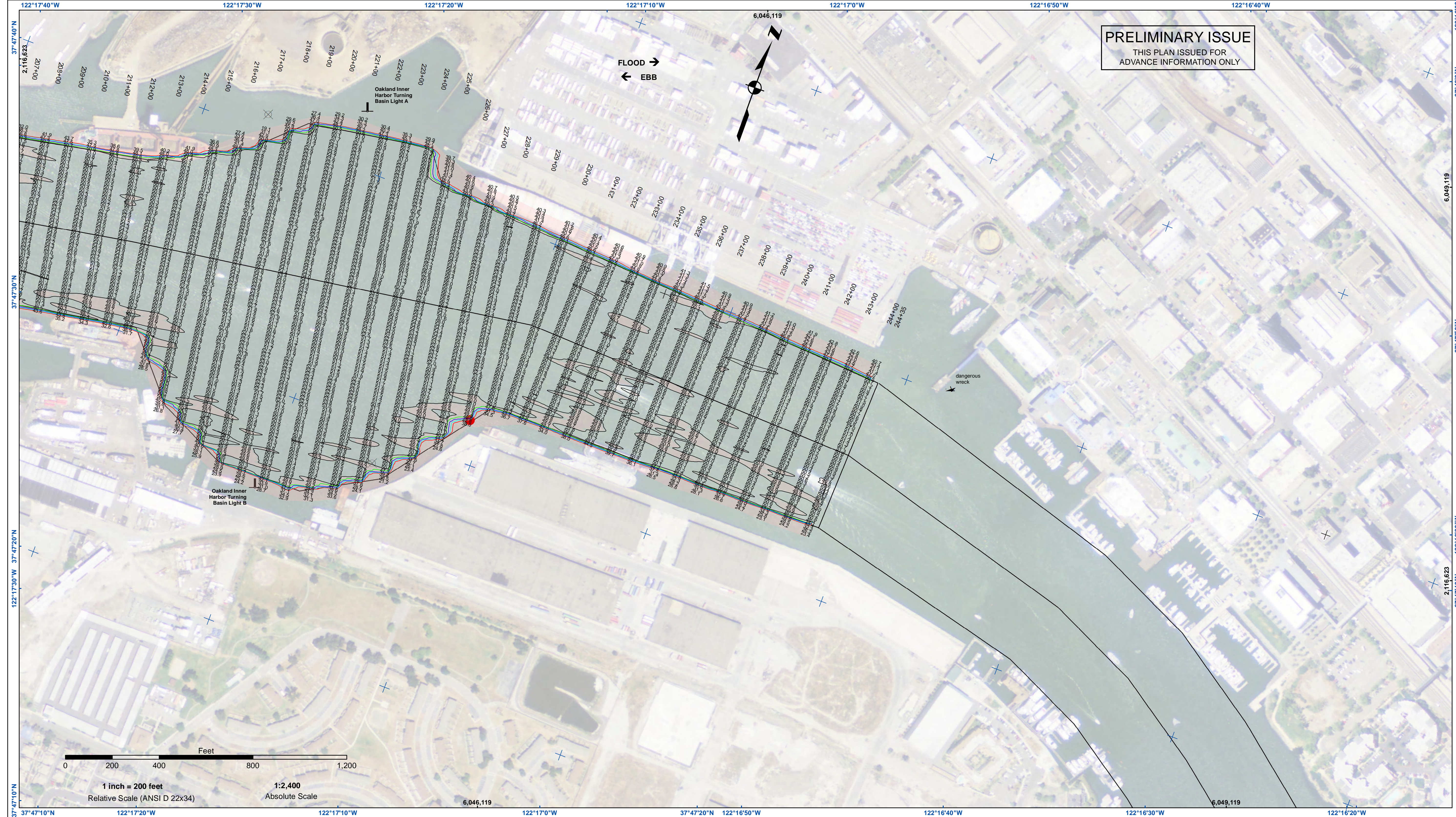
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Prepared Under the Direction of	John D. Cunningham	Chart Date:	Mar 01, 2021
Surveyed By:	John D. Cunningham	Designed by:	
Plotted By:	Hydro Survey Team Leader	Drawn by:	
Checked By:	Navigation Technical Manager		
Approved:	Project Manager		

CALIFORNIA  
ALAMEDA COUNTY  
**OAKLAND HARBOR**  
INNER HARBOR  
CONDITION SURVEY  
24 FEBRUARY 2021

**Sheet Number**  
5 of 6



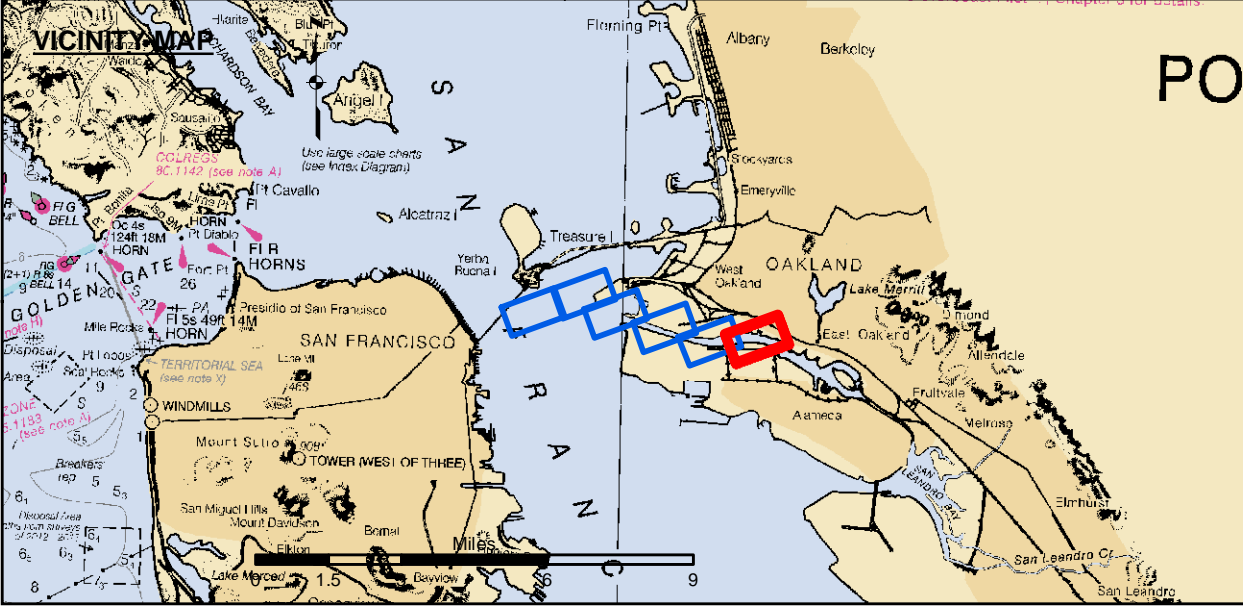
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Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Mar 01, 2021
Submitted by: Hydro Survey Team Leader	Designed by:
Recommended by: Navigation Technical Manager	Drawn by:
Approved by: Project Manager	

ALAMEDA COUNTY  
**OAKLAND HARBOR**  
INNER HARBOR  
CONDITION SURVEY  
24 FEBRUARY 2021



- 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 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.  
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.  
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A 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

WARNING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. 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. 238, PUBLISHED BY THE NATIONAL OCEAN SURVEY.  
HORIZONTAL CONTROL: PRIMARY: RTK POSITIONING SECONDARY: COAST GUARD DGPS D-BEACON  
VERTICAL CONTROL: PRCP: PORT 1 1936/PID HT0854. OAKLAND INNER, REACH 4&8 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 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 7-10 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 VDATUM MODELS. TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

**Sheet**  
**Reference**  
**Number**  
**6 of 6**