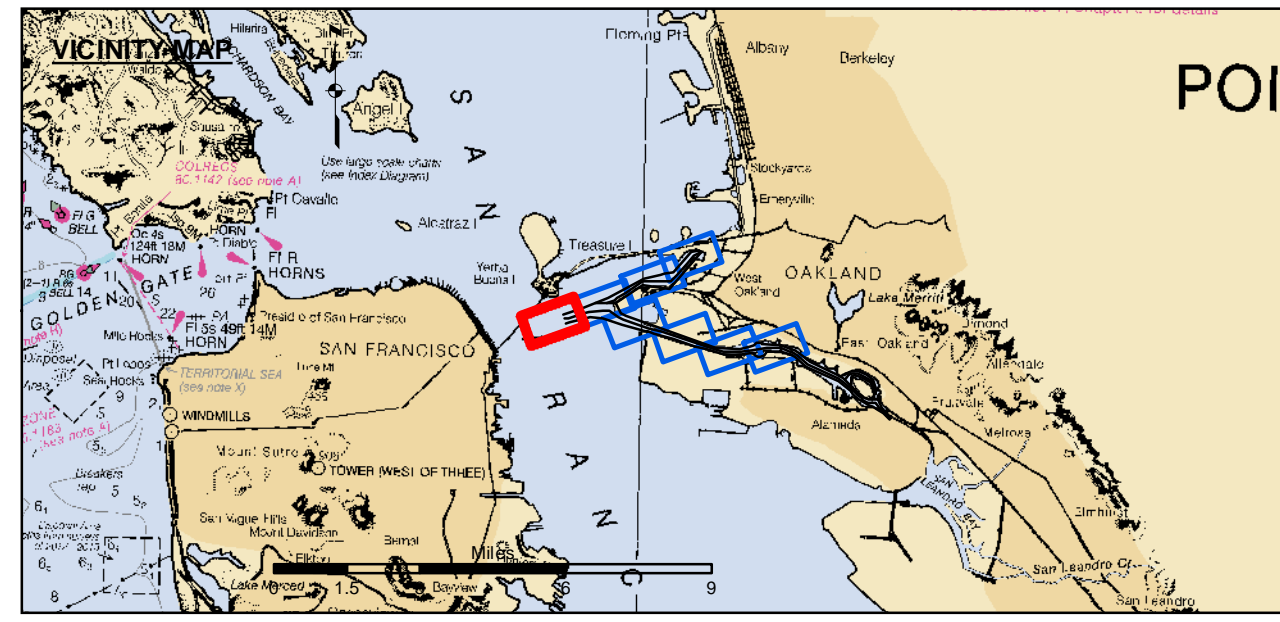


**US Army Corps of Engineers**  
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 1455 Market Street  
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Prepared Under the Direction of	John D. Cunningham	Chart Date	May 19, 2020
Surveyed By	Brian Becker	Designed by	Ellen Choy
Plotted By	Paul Chen	Checked by	Paul Chen
Shelved	Paul Chen	Drawn by	Paul Chen
Hydro Survey Team Leader	Ellen Choy		
Recommendation	David Doak		
Navigation Technical Manager	Irene Lee		
Approval	Irene Lee		
Project Manager			



- |                            |                    |                 |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General    | <b>Contours</b> |
| 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                |                    |                 |

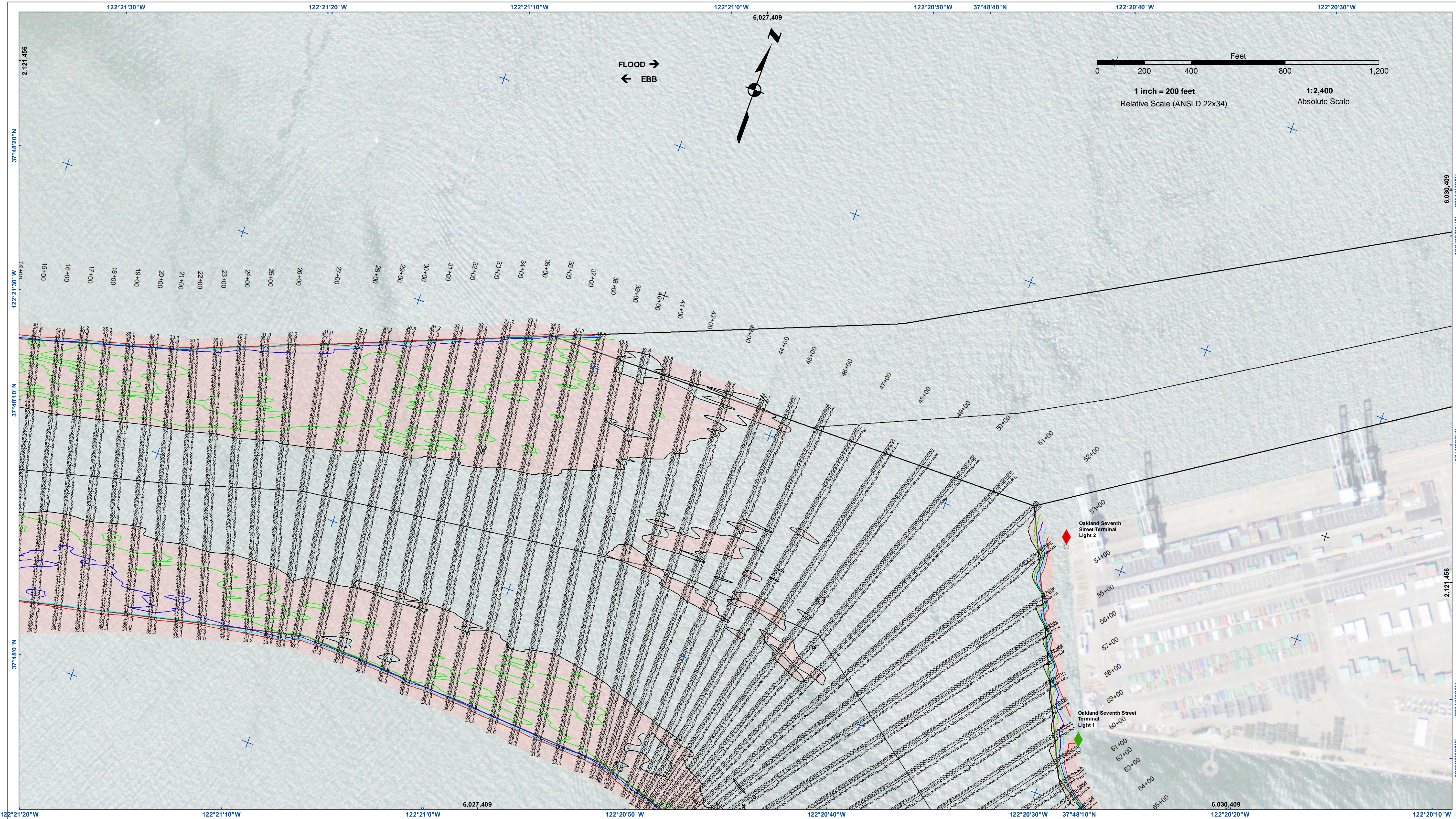
**NOTES:**  
 HORIZONTAL COORDINATE SYSTEM:  
 NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.  
 VERTICAL DATUM:  
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.  
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 HORIZONTAL CONTROL:  
 PRIMARY: RTK POSITIONING  
 SECONDARY: COAST GUARD DGPS D-BEACON  
 VERTICAL CONTROL:  
 PCPC: PORT 1 1936/PID HT0854.  
 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.  
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ALAMEDA COUNTY  
 CALIFORNIA  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020

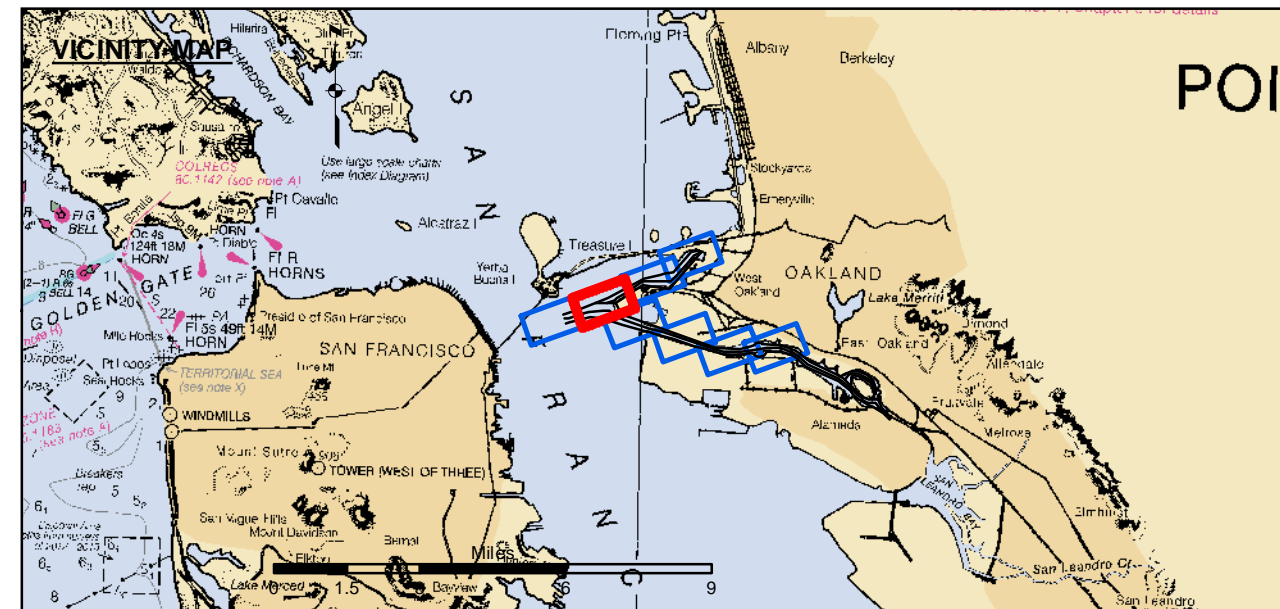
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**Reference**  
**Number**  
**1 of 8**





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Prepared Under the Direction of	Chart Date
JOHN D. CUNNINGHAM	May 19, 2020
Surveyed By	Designed by
BRIAN BECKER	ELLEN CHOY
EMIL CAPATI	Checked by
Plotted By	PAUL CHEN
PAUL CHEN	Drawn by
Hydro Survey Team Leader	IRENE LEE
Recommended	Navigation Technical Manager
DAVID DOAK	Project Manager
Approved	



- 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

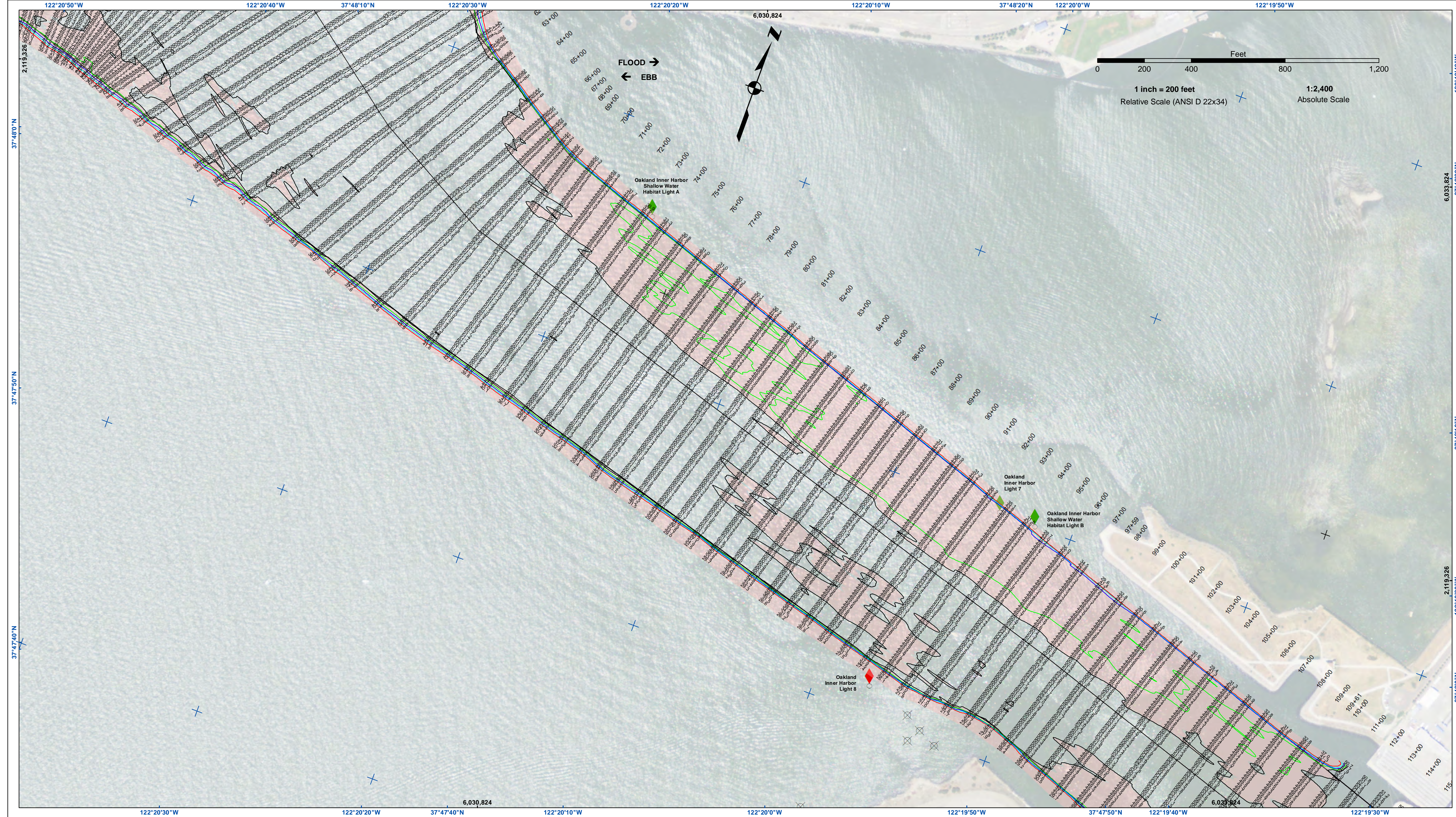
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ALAMEDA COUNTY  
 CALIFORNIA  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020

**Sheet**  
**Reference**  
**Number**  
**2 of 8**





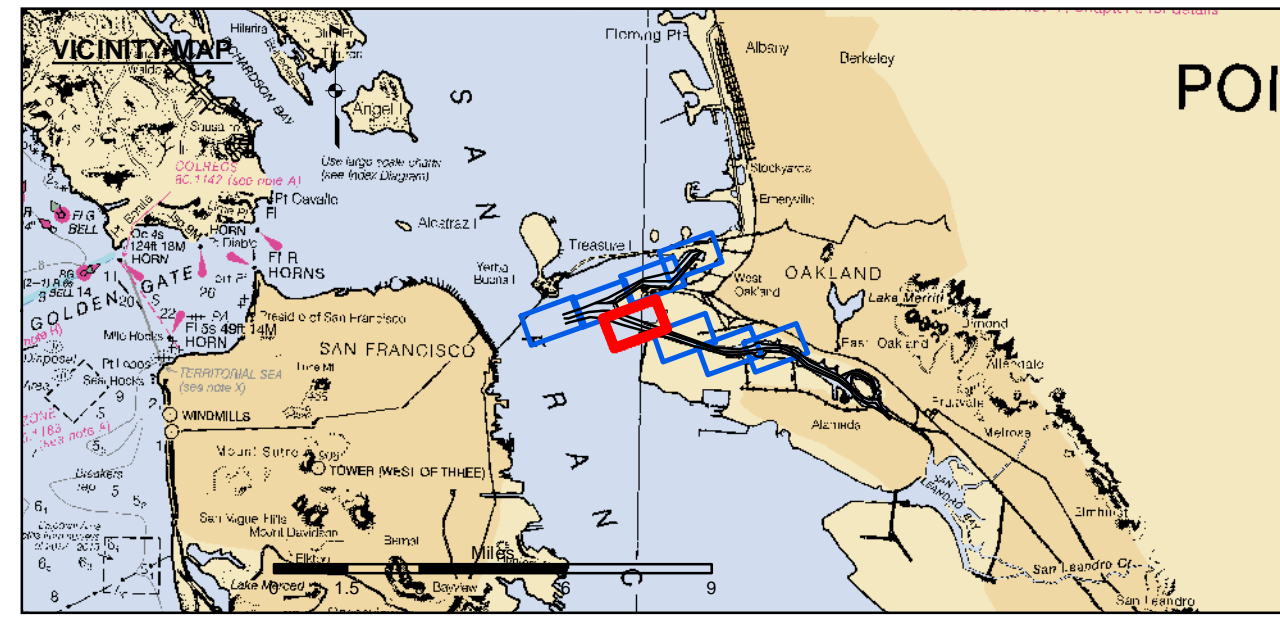
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 San Francisco, CA 94103

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Prepared Under the Direction of	Chart Date
JOHN D. CUNNINGHAM	May 19, 2020
Surveyed By	Designed by
BRIAN BECKER	ELLEN CHOY
EMIL CAPATI	PAUL CHEN
Shelved By	Checked by
PAUL CHEN	IRENE LEE
Hydro Survey Team Leader	Navigation Technical Manager
DAVID DOAK	Project Manager
Approved	
IRENE LEE	

ALAMEDA COUNTY  
 OAKLAND HARBOR  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020

Sheet  
 Reference  
 Number  
**5 of 8**



- |                            |                    |                 |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General    | <b>Contours</b> |
| 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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 HORIZONTAL CONTROL:  
 PRIMARY: RTK POSITIONING  
 SECONDARY: COAST GUARD DGPS D-BEACON  
 VERTICAL CONTROL:  
 PCPC: PORT 1 1936/PID HT0854.  
 OAKLAND INNER REACH #4 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.  
 LCP1: 941 4777 B TIDAL/PID AE211, OAKLAND INNER REACH I-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 TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37. NAIL ELEVATION 9.7 FEET MLLW.  
 LCP2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6/NAV 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 10.7 FEET MLLW.



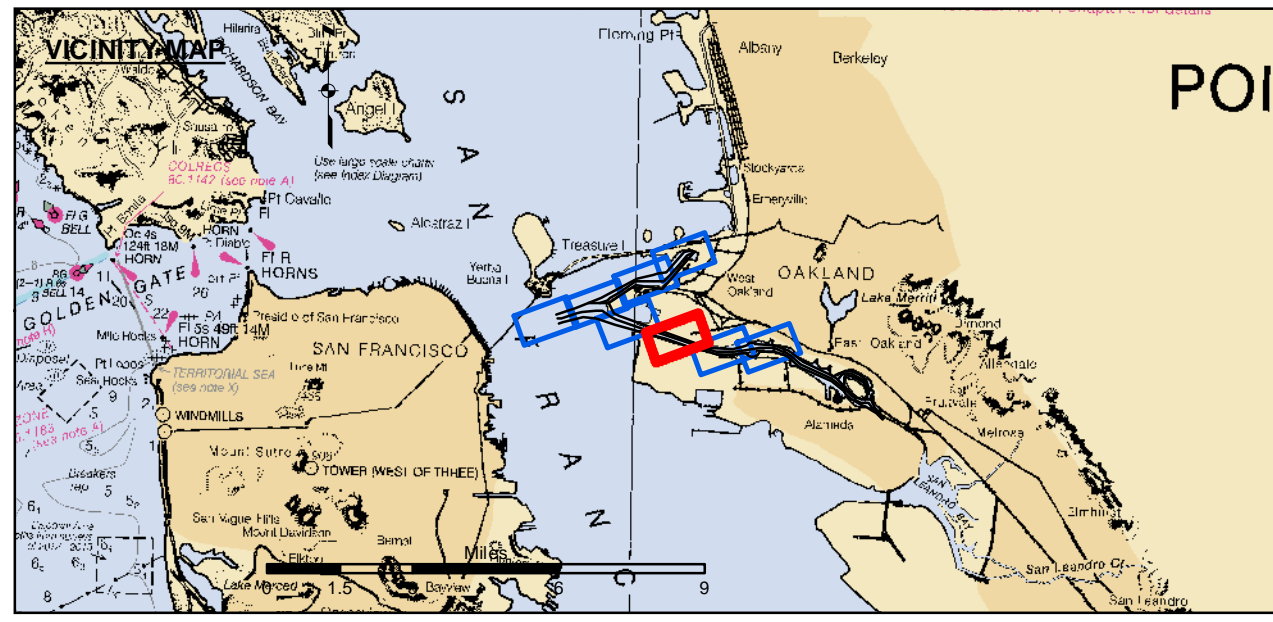


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Prepared Under the Direction of	John D. Cunningham	Chart Date	May 19, 2020
Surveyed By	Brian Becker, Emil Capati	Designed by	Ellen Choy
Shoaled	Paul Chen	Plotted By	Ellen Choy
Hydro Survey Team Leader	David Doak	Navigation Technical Manager	Irene Lee
Checked By	Paul Chen	Project Manager	Irene Lee

ALAMEDA COUNTY  
 CALIFORNIA  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020

**Sheet**  
**Reference**  
**Number**  
**6 of 8**

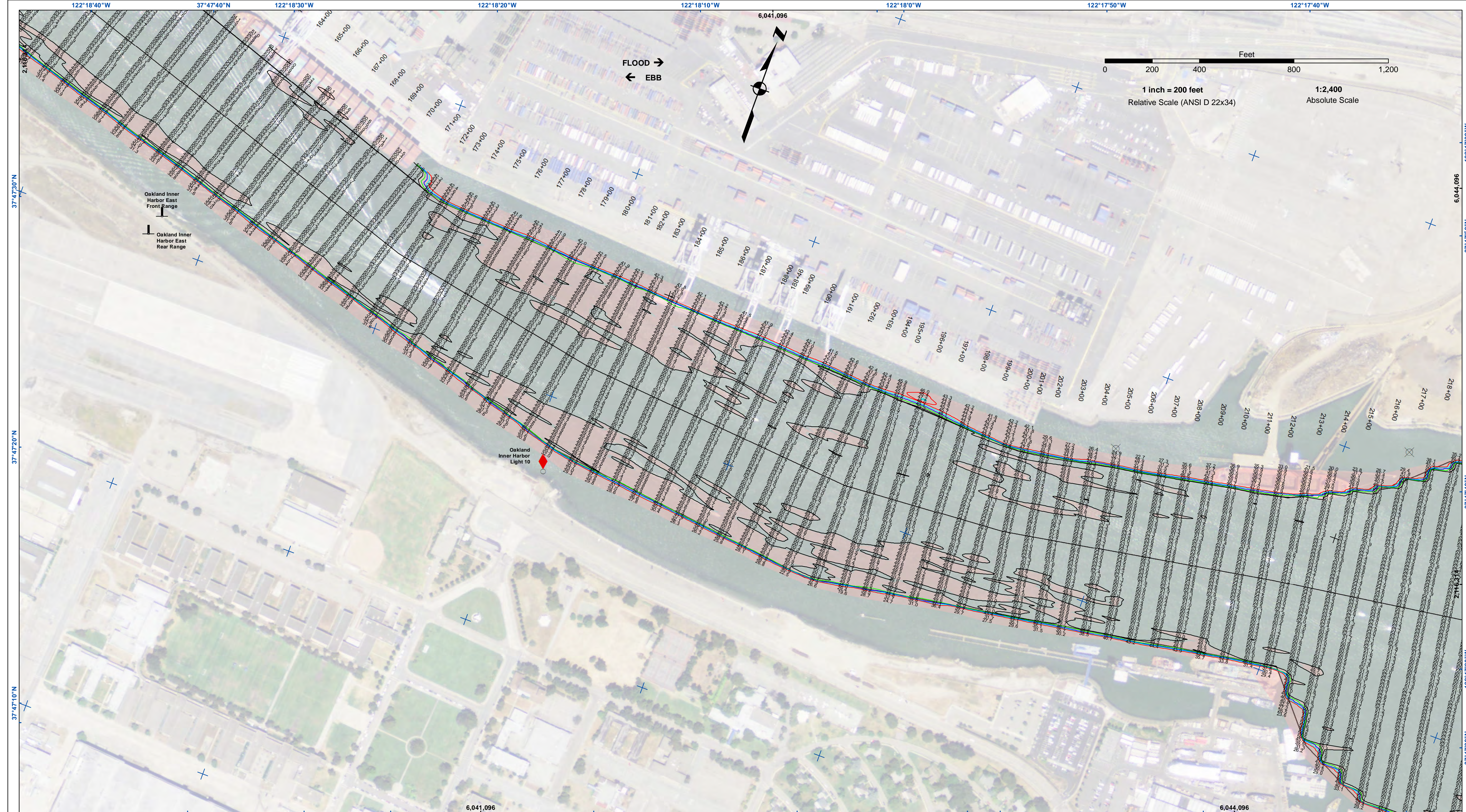


Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-50
Placement Area	Navigation Buoy	-49
Anchorage Area	Navigation Buoy	-48
Wreck Area	Shoalest Sounding*	-47
Submerged Wreck		-46
Angle Point		

**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.  
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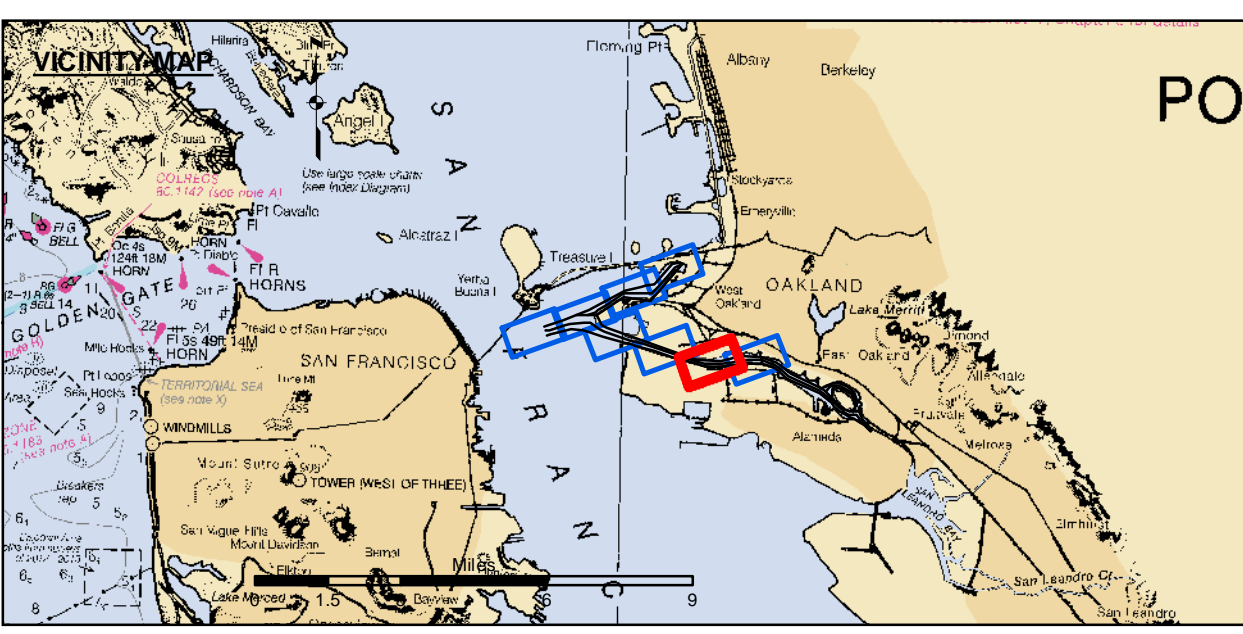


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 San Francisco District  
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Prepared Under the Direction of	John D. Cunningham	Chart Date	May 19, 2020
Surveyed By	Brian Becker, Emil Capati	Designed by	Ellen Choy
Plotted By	Paul Chen	Checked by	Paul Chen
Hydro Survey Team Leader	Paul Chen	Navigation, Technical Manager	David Doak
Project Manager	Irene Lee		

ALAMEDA COUNTY  
 OAKLAND HARBOR  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020



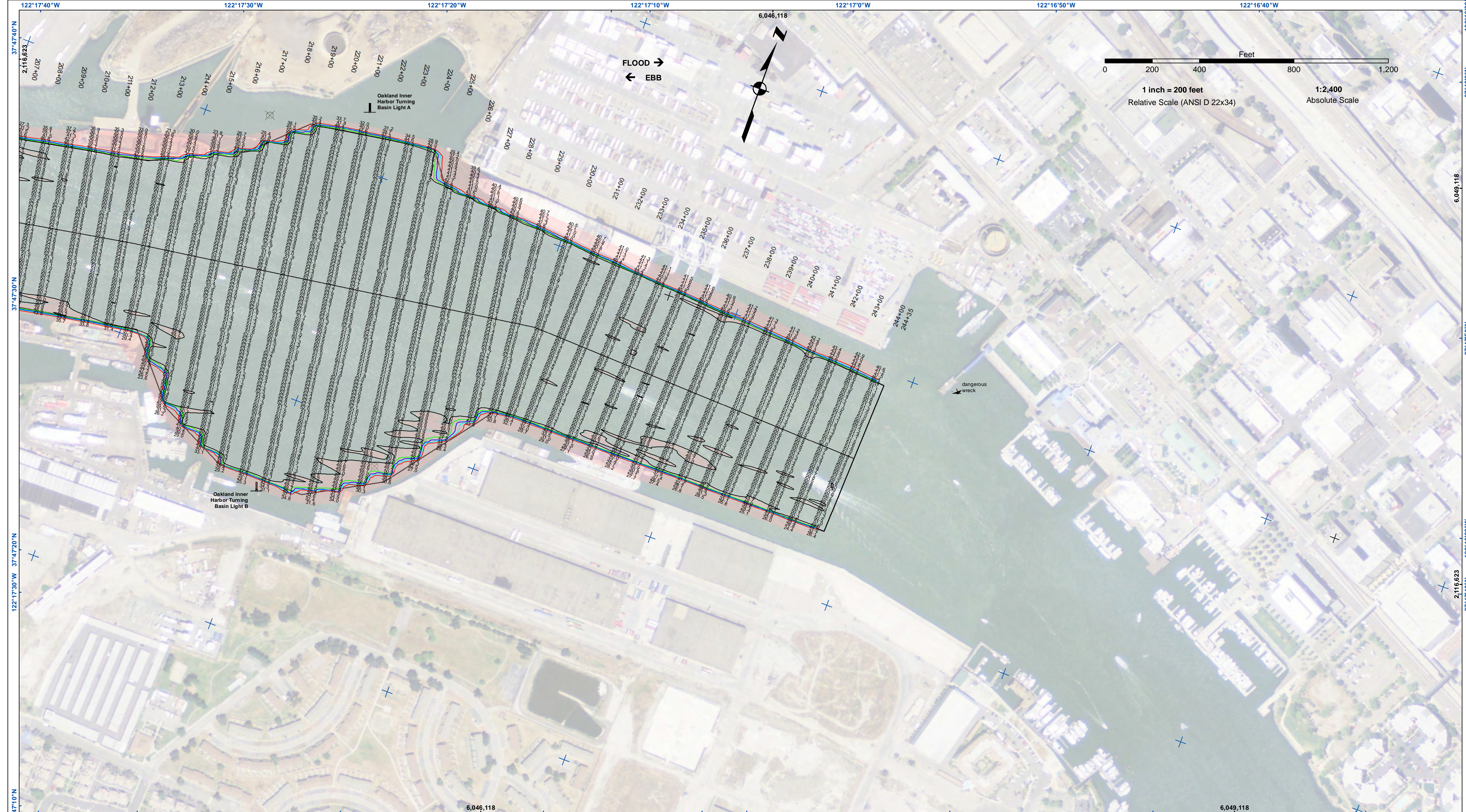
- |                            |                    |          |
|----------------------------|--------------------|----------|
| Federal Navigation Channel | Beacon, General    | Contours |
| Shoaling Area              | Obstruction Point  | -50      |
| Placement Area             | Navigation Buoy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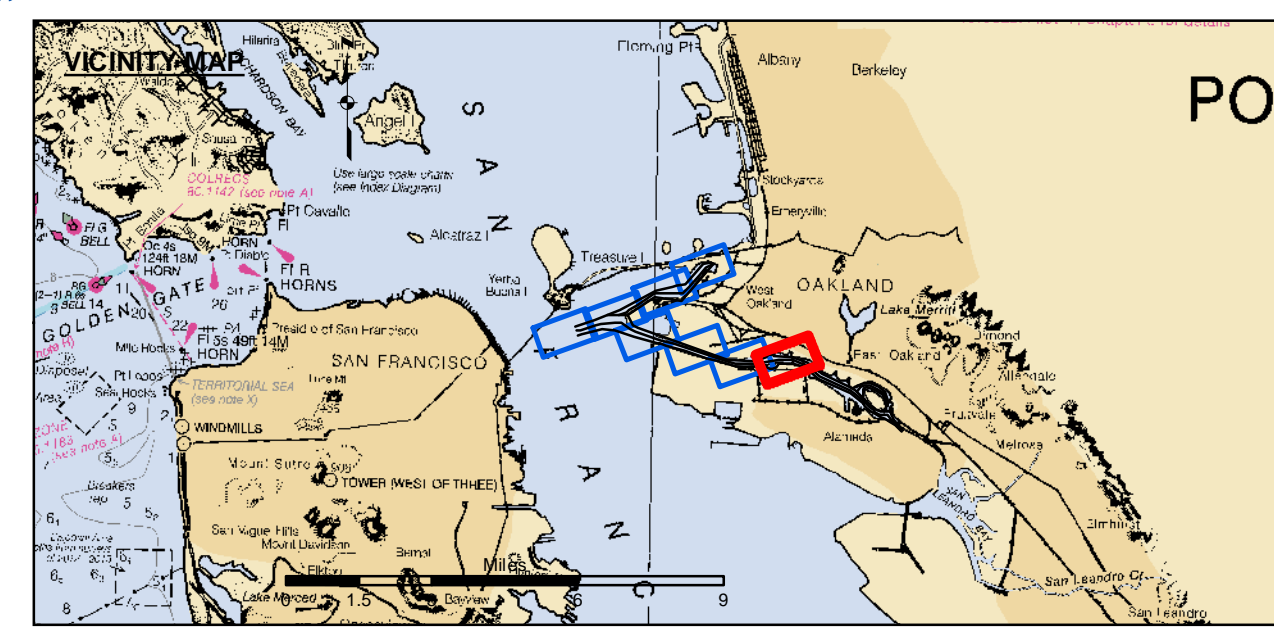


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 San Francisco District  
 1455 Market Street  
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Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By <b>BRIAN BECKER</b> EMIL CAPATI	Chart Date May 19, 2020
Subplot <b>PAUL CHEN</b> Hydro Survey Team Leader	Plotted By <b>ELLEN CHOY</b>	Designed by:
Recommendation <b>DAVID DOAK</b> Navigation Technical Manager	Checked By <b>PAUL CHEN</b>	Drawn by:
Approved <b>IRENE LEE</b> Project Manager		

ALAMEDA COUNTY  
 CALIFORNIA  
**OAKLAND HARBOR**  
 INNER HARBOR  
 CONDITION SURVEY  
 12 MAY 2020



Federal Navigation Channel	Beacon, General	<b>Contours</b>
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 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

DRAWING 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. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.  
 HORIZONTAL CONTROL:  
 PRIMARY: RTK POSITIONING  
 SECONDARY: COAST GUARD DGPS D-BEACON  
 VERTICAL CONTROL:  
 PCIP: PORT 1 1936PID HT0854.  
 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.  
 LCP1: 941 4777 B TIDALPID A6211, OAKLAND INNER REACH I-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.  
 LCP2: OAK OUTER 1 2012NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6AMNAV 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.