

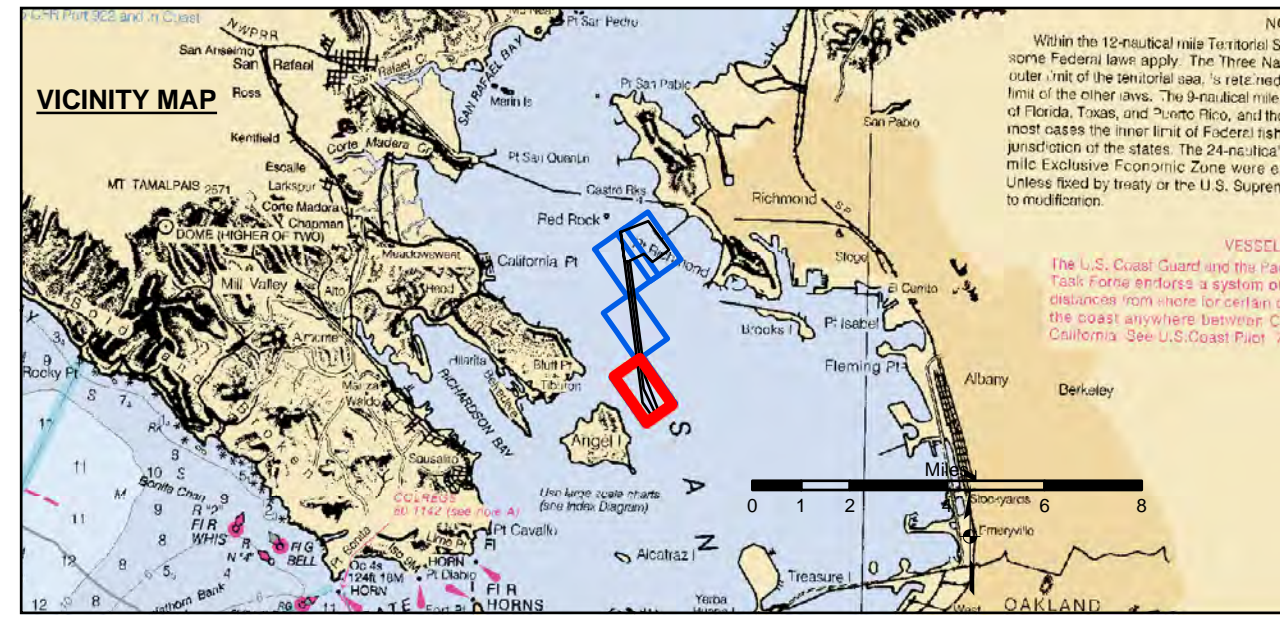
US Army Corps of Engineers
 San Francisco District
 1455 Market Street
 San Francisco, CA 94103

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Chart Date:	Jan 30, 2018
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	Travis J. Rayfield
Plotted By:	PDT
Recommended:	Chief, Hydro Survey Section

ALAMEDA COUNTY
 RICHMOND OUTER HARBOR
 SOUTHAMPTON SHOALS
 CONDITION SURVEY
 25 JANUARY 2018

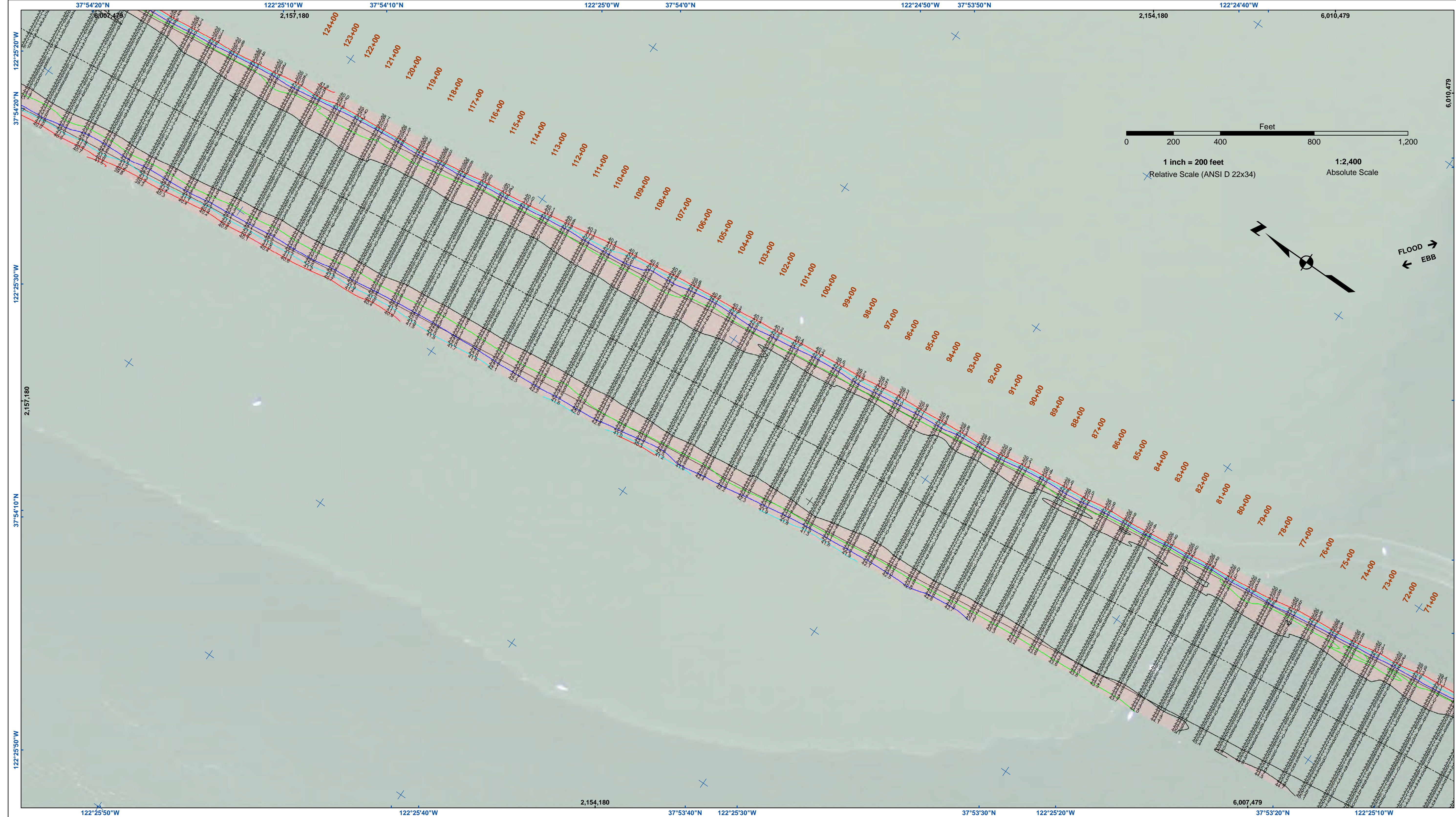
Sheet Reference Number
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Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	-45
Anchorage Area	Navigation Buoy	-44
Wreck Area	Shoalest Sounding*	-43
Submerged Wreck		-42
Angle Point		-41

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.
 *SHOALEST SOUNDING PER QUARTER PER REACH DRAWING NOT TO BE USED FOR NAVIGATION.
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 SURVEYED BY THE CORPS OF ENGINEERS.

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, NAVD 88. BASE MAPS ARE USDA NAIP 2010.
 THE PROJECT DEPTHS ARE AS FOLLOWS:
 SOUTHAMPTON SHOALS CHANNEL -45 FEET.
 LONG WHARF MANEUVERING AREA -45 FEET.
 1:00 INDICATED THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.
 HORIZONTAL CONTROL:
 HORIZONTAL POSITIONING: COAST GUARD DGPS
 VERTICAL TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
 941 4290 - RICHMOND, CA
 941 4290 - SAN FRANCISCO, CA
 VERTICAL CONTROL:
 (SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK *11 1937 ELEV 15.86 FT. MLLW.
 AND BENCHMARK *11 1946 ELEV 15.47 FT. MLLW.
 TIDE GAUGE LOCATED AT TIBURON NET DEPOT.



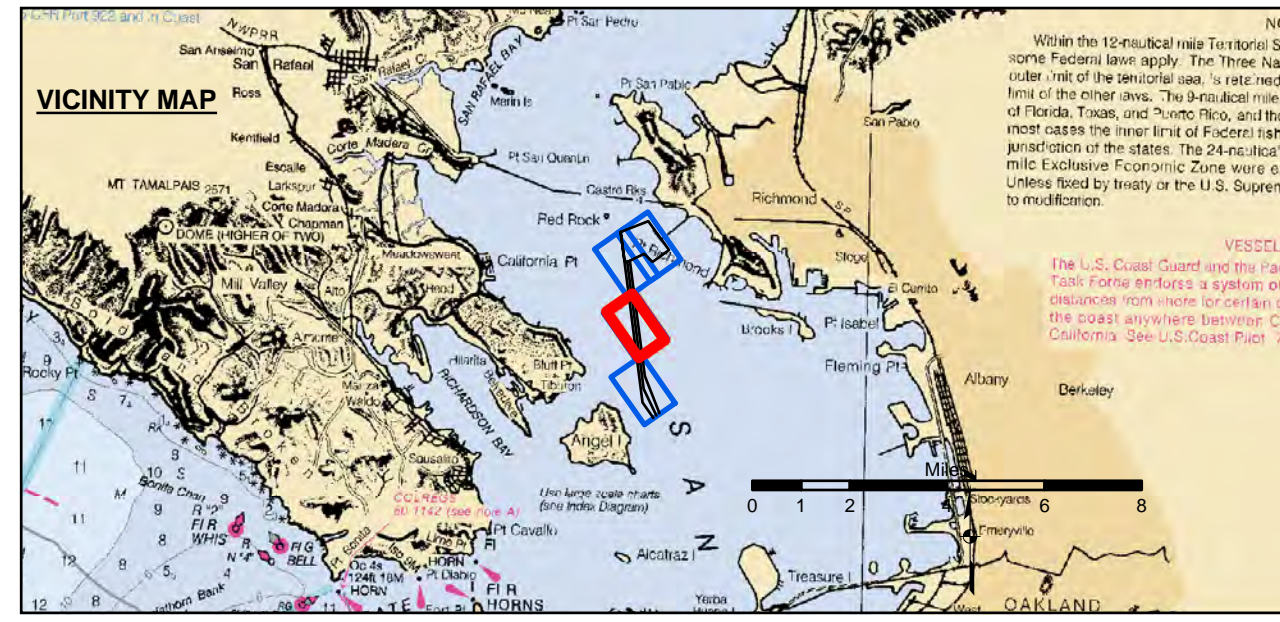
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 SOUTHAMPTON SHOALS
 CONDITION SURVEY
 25 JANUARY 2018

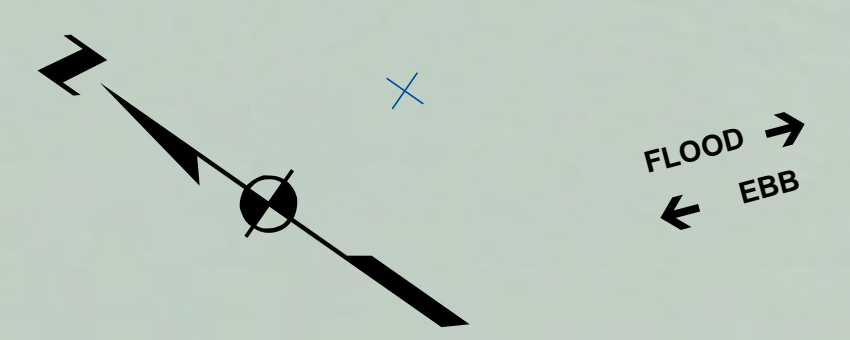
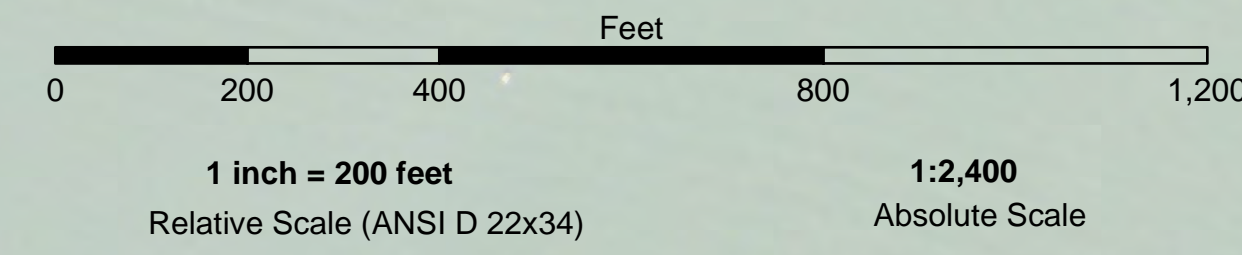
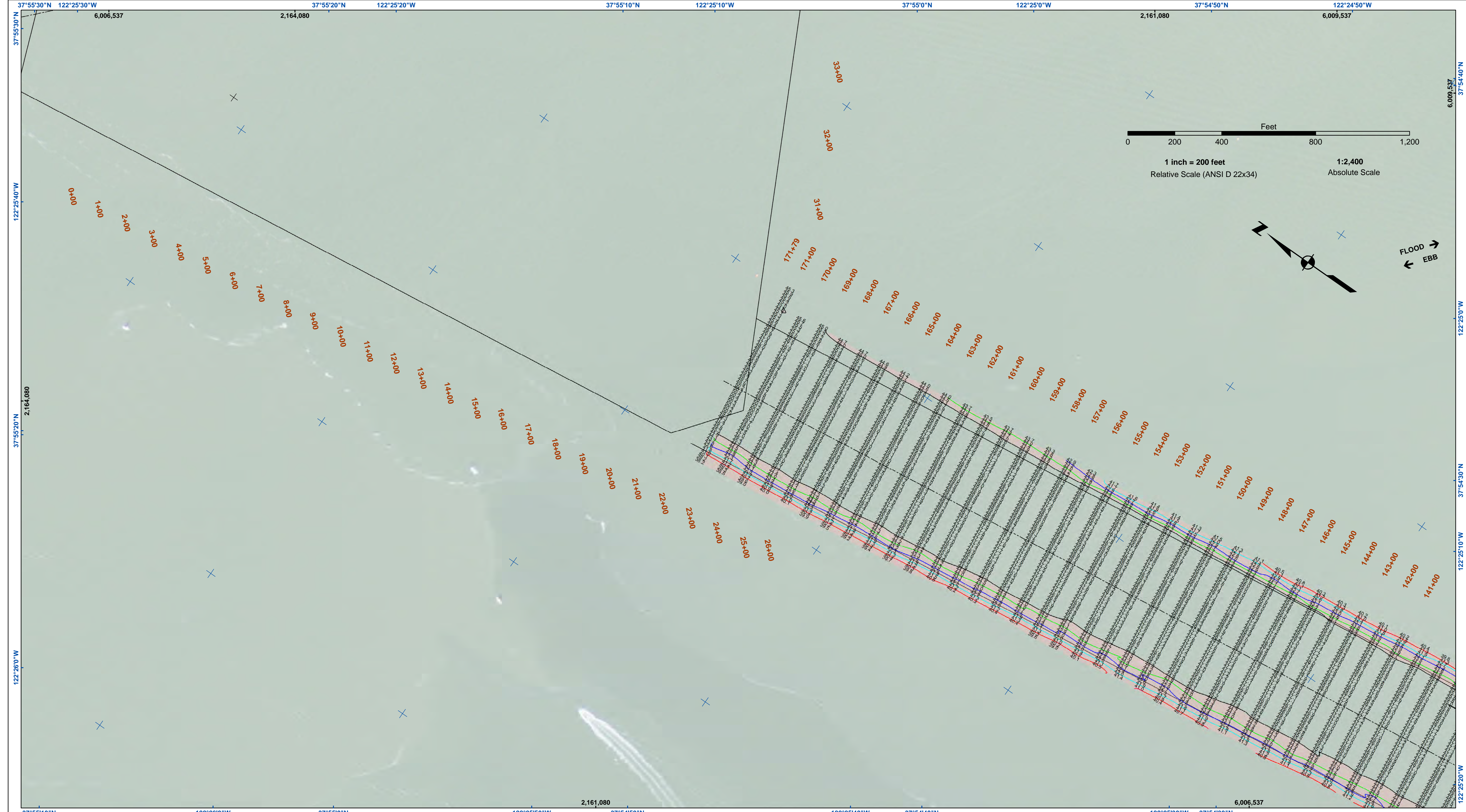
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 941 4863 - RICHMOND, CA
 941 4290 - SAN FRANCISCO, CA
 VERTICAL CONTROL:
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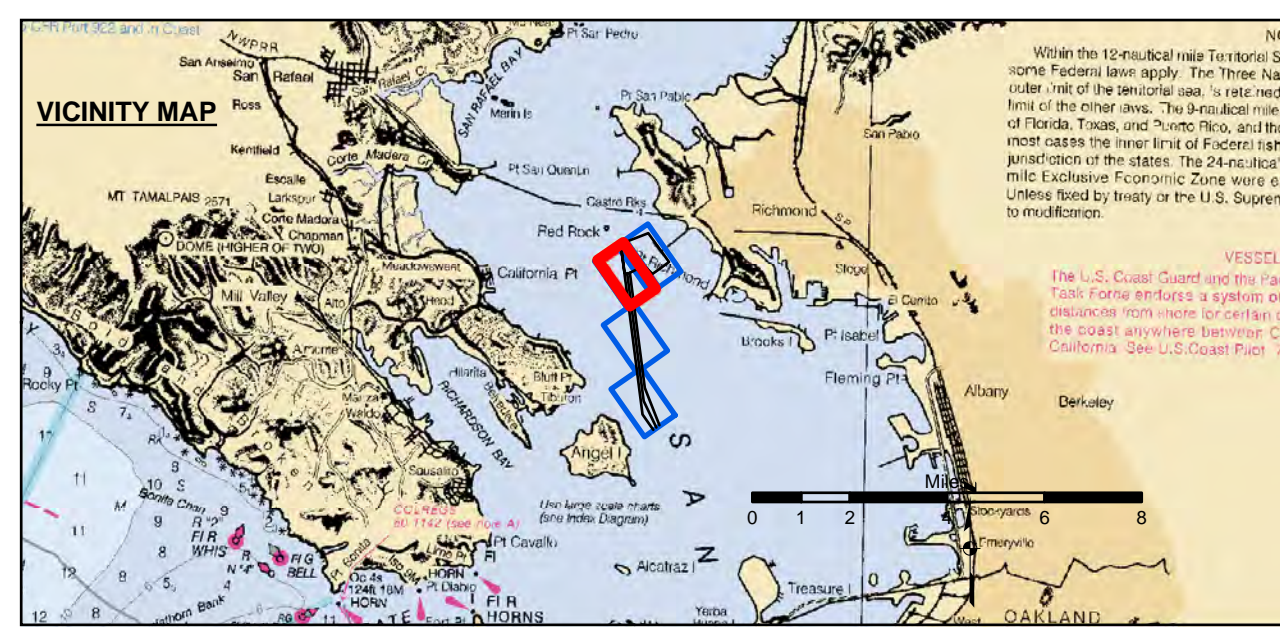
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Prepared Under the Direction of	Chart Date
LT. COLONEL, C.E. DISTRICT ENGINEER	Jan 30, 2018
Surveyed By	Designed by
Plotted By	PDT
Checked By	PDT
Drawn by	PDT

ALAMEDA COUNTY
 RICHMOND OUTER HARBOR
 SOUTHAMPTON SHOALS
 CONDITION SURVEY
 25 JANUARY 2018

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 941 4290 - SAN FRANCISCO, CA
 VERTICAL CONTROL:
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 AND BENCHMARK *11* 1946 ELEV 15.47 FT. MLLW.
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