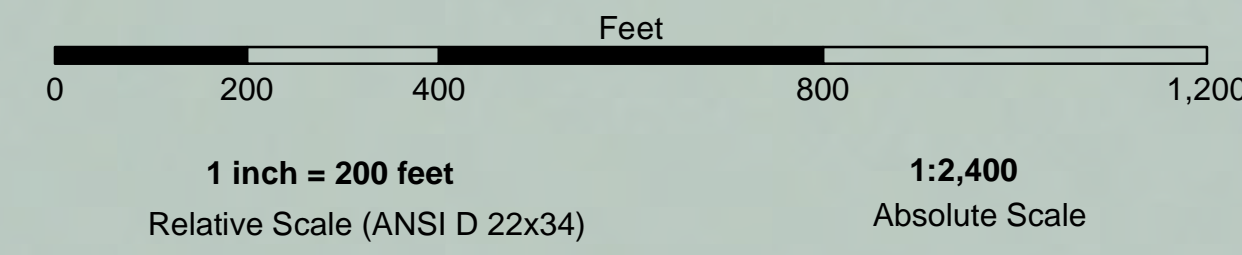


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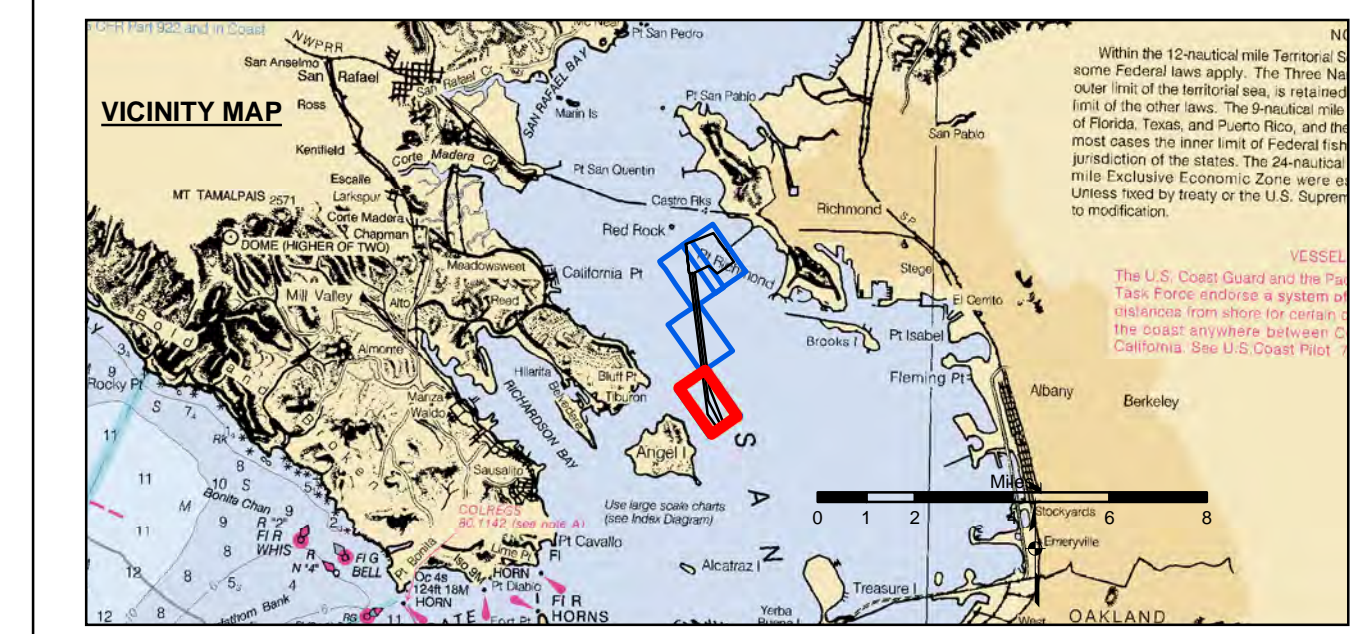
US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave
San Francisco, CA 94102

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Chart Date:	Nov 06, 2023
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved by:	Chief, Construction Branch

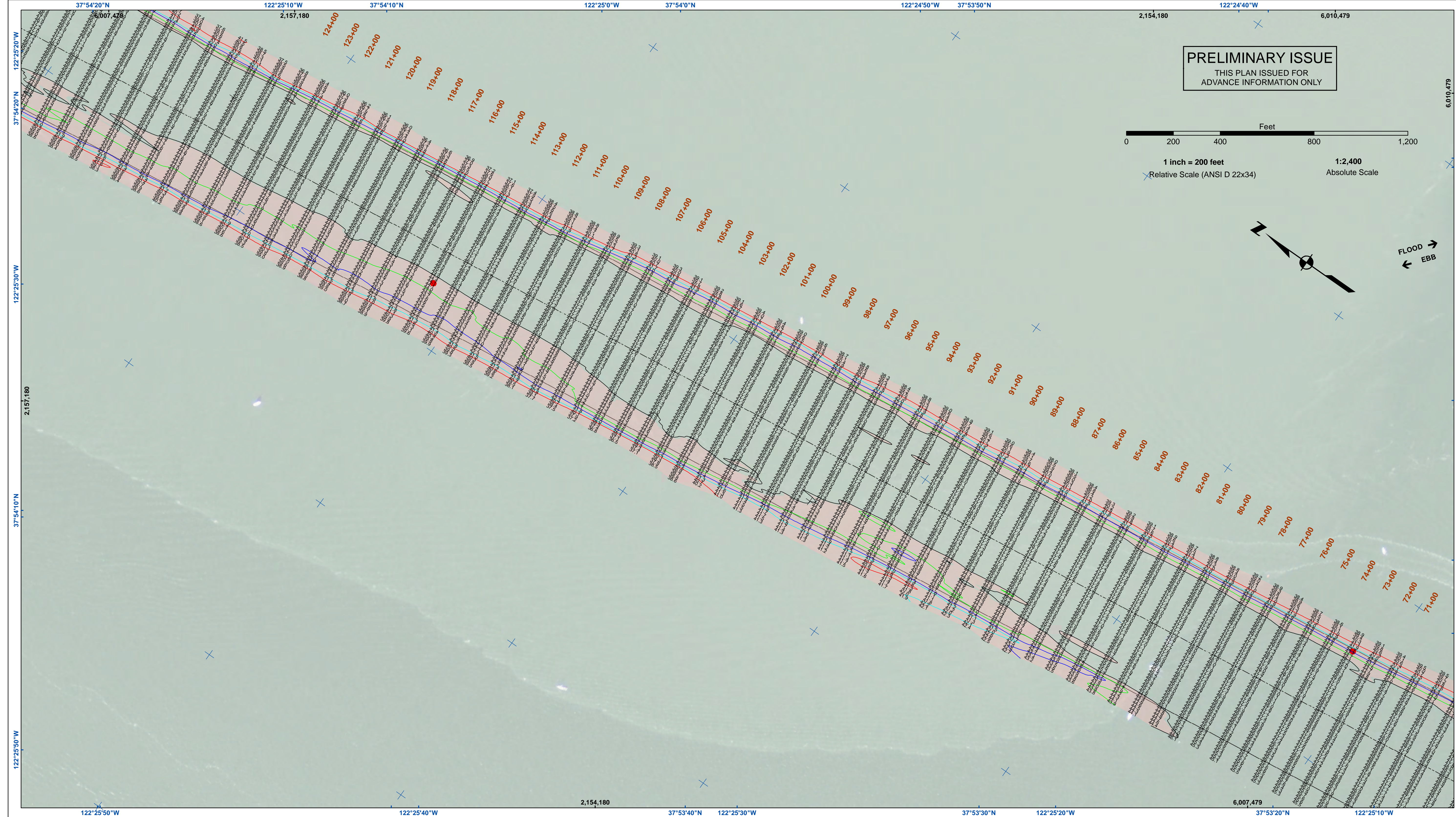
CALIFORNIA
CONTRA COSTA
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOALS
CONDITION SURVEY
06 NOVEMBER 2023

Sheet Reference Number
1 of 4

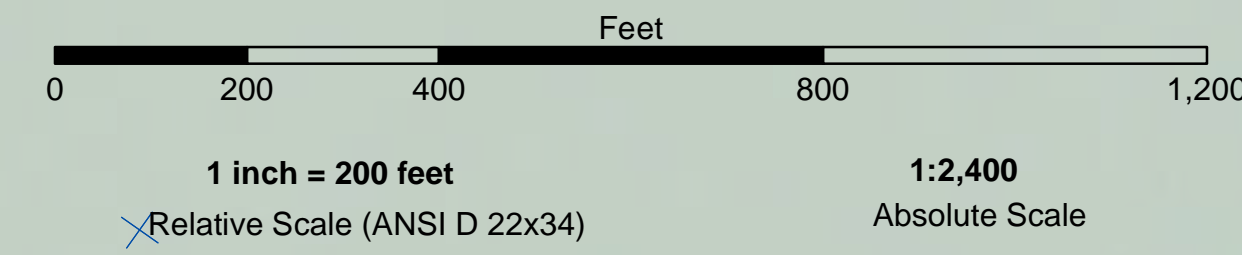


Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	
Anchorage Area	Navigation Buoy	
Wreck Area	Shoalest Sounding*	
Submerged Wreck		-45
Angle Point		-44
		-43
		-42
		-41

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.
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: COAST GUARD DGPS
VERTICAL TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS: 941 4863 - RICHMOND, CA; 941 4280 - SAN FRANCISCO.
VERTICAL CONTROL: (SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK '10' 1937 ELEV 15.86 FT. MLLW. AND BENCHMARK '11' 1946 ELEV 15.47 FT. MLLW. TIDE GAUGE LOCATED AT TIBURON NET DEPOT.
SURVEYED BY THE CORPS OF ENGINEERS.
*SHOALEST SOUNDING PER QUARTER PER REACH
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.



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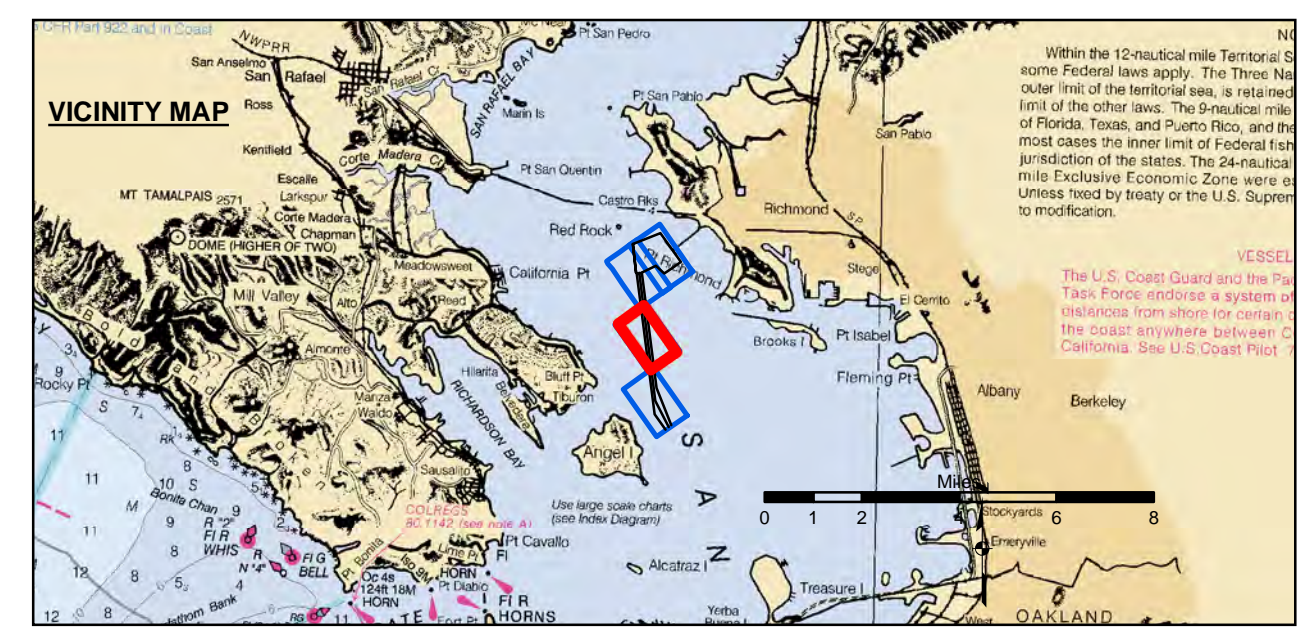
FLOOD →
← EBB

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

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Chart Date:	Nov 06, 2023
Designed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT

CALIFORNIA
CONTRA COSTA
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOALS
CONDITION SURVEY
06 NOVEMBER 2023

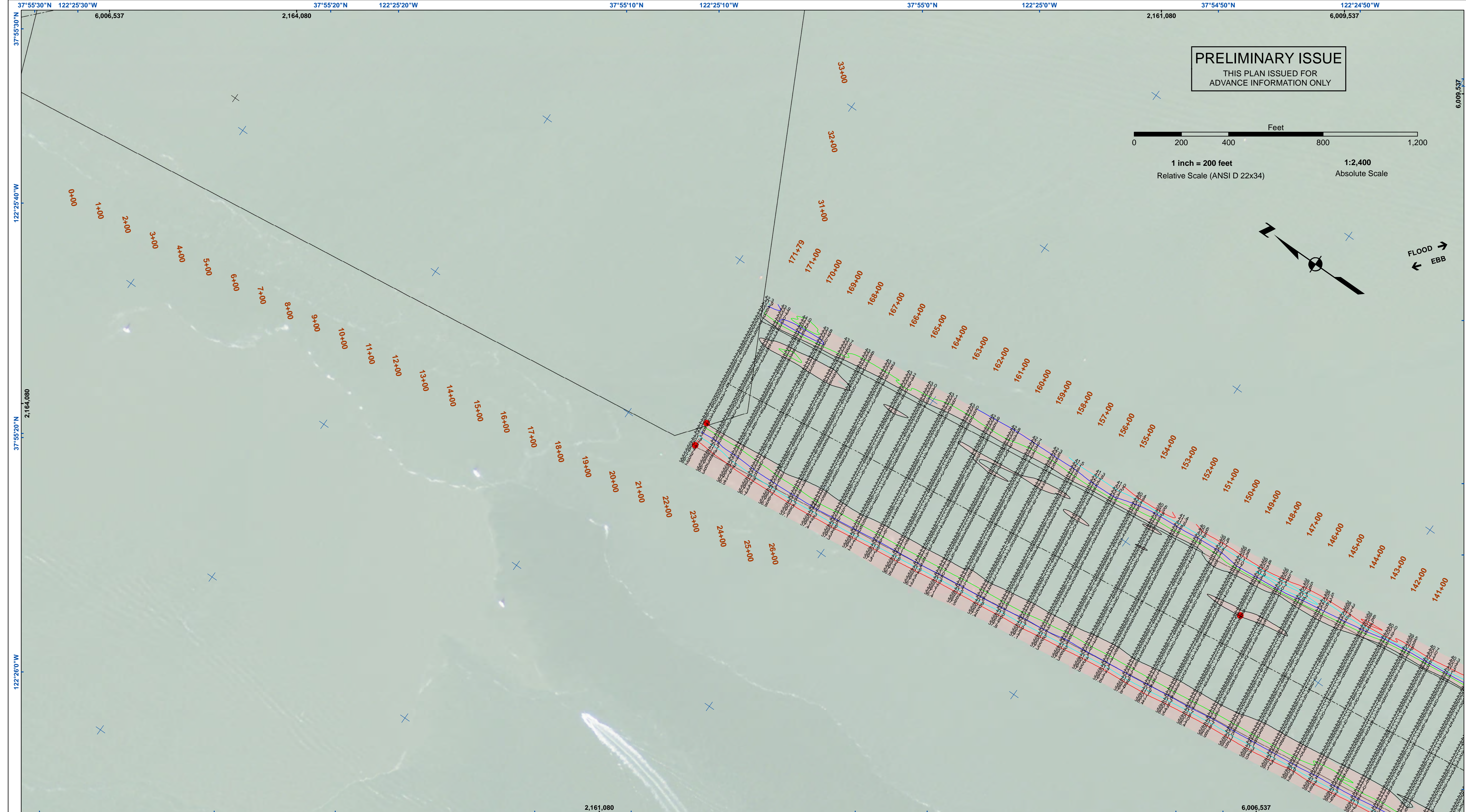


Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	
Anchorage Area	Navigation Buoy	
Wreck Area	Shoalest Sounding*	
Submerged Wreck		-45
Angle Point		-44
		-43
		-42
		-41

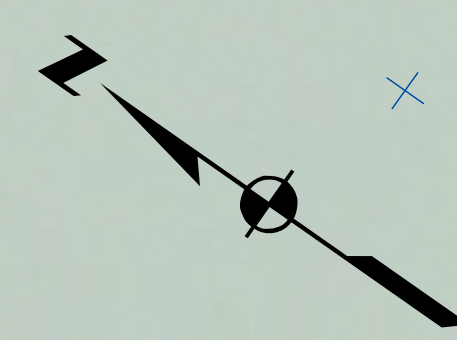
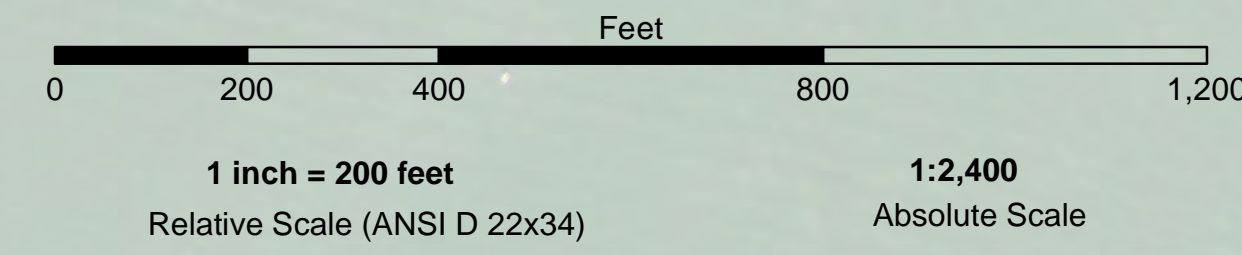
NOTES:
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VERTICAL DATUM: SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.
SURVEYED BY THE CORPS OF ENGINEERS.
*SHOALEST SOUNDING PER QUARTER PER REACH
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
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: SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING BENCHMARK '10' 1937 ELEV 15.86 FT. MLLW.
AND BENCHMARK '11' 1946 ELEV 15.47 FT. MLLW.
TIDE GAUGE LOCATED AT TIBURON NET DEPOT.

Sheet
Reference
Number
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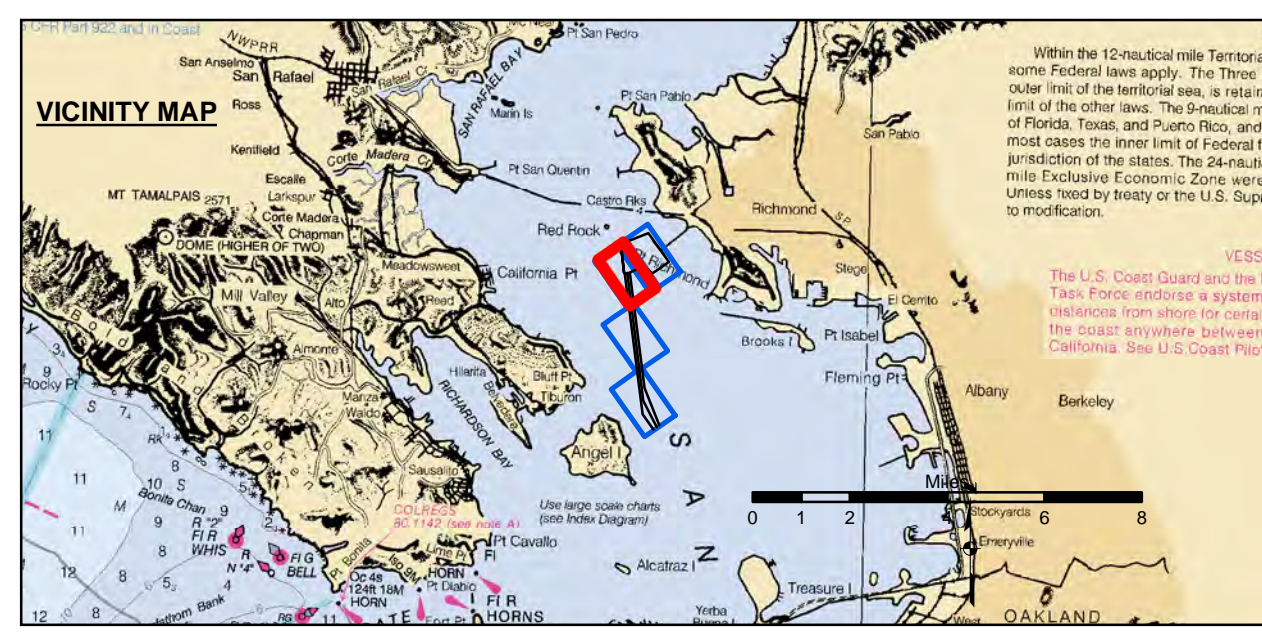
FLOOD →
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Prepared Under the Direction of	Chart Date
LT COLONEL W. SHEBESTA	Nov 06, 2023
Submitted	Designed by:
Hydro Survey Team Leader	PDT
Recommended	Checked by:
Chief, Hydro Survey Section	PDT
Approved	Chief, Construction Branch
	Drawn by:
	PDT

CALIFORNIA
CONTRA COSTA
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOALS
CONDITION SURVEY
06 NOVEMBER 2023



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	
Anchorage Area	Navigation Buoy	
Wreck Area	Shoalest Sounding*	
Submerged Wreck		-45
Angle Point		-44
		-43
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NOTES:
HORIZONTAL COORDINATE SYSTEM:
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*SHOALEST SOUNDING PER QUARTER PER REACH

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HORIZONTAL CONTROL:
HORIZONTAL POSITIONING: COAST GUARD DGPS
VERTICAL TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
941 4863 - RICHMOND, CA
941 4280 - SAN FRANCISCO, CA

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(SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK '10' 1937 ELEV 15.86 FT. MLLW.
AND BENCHMARK '11' 1946 ELEV 15.47 FT. MLLW.
TIDE GAUGE LOCATED AT TIBURON NET DEPOT.

Sheet Reference Number
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