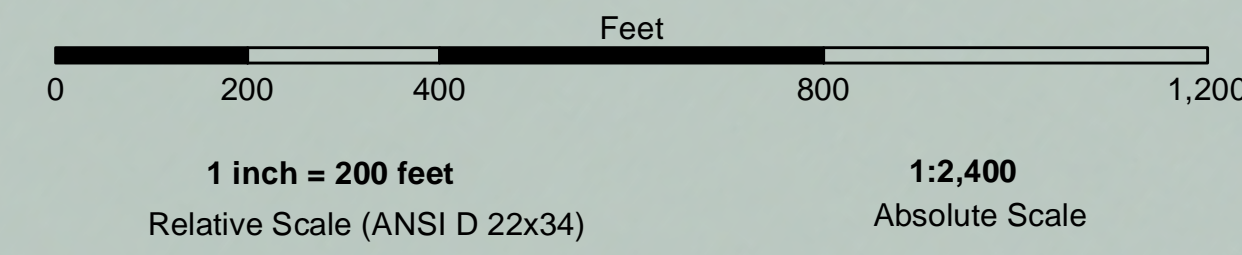


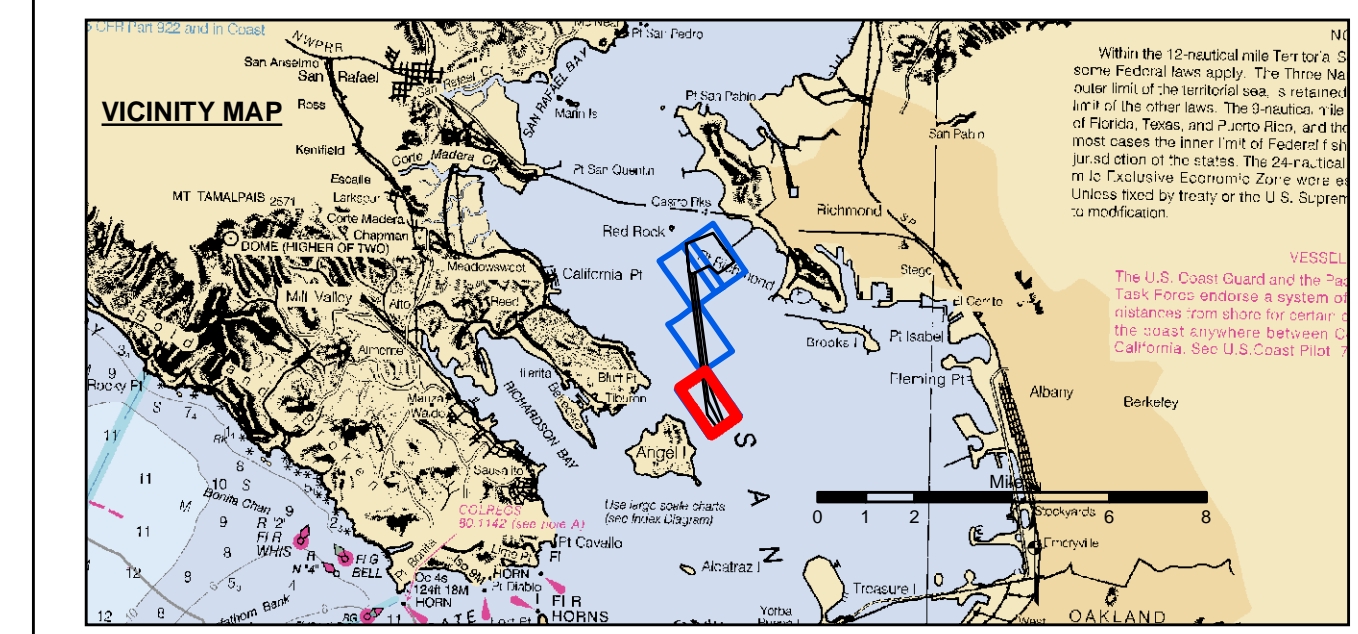
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US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave
San Francisco, CA 94102

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|--------------|-----------------------------------|
| Chart Date: | Jul 14, 2022 |
| Designed by: | PDT |
| Drawn by: | PDT |
| Checked by: | PDT |
| Approved: | Chief, Construction Branch |
| Surveyed By: | LT COLONEL C.E. DISTRICT ENGINEER |
| Plotted By: | PDT |
| Recommended: | Chief, Hydro Survey Section |
| Approved: | Chief, Construction Branch |



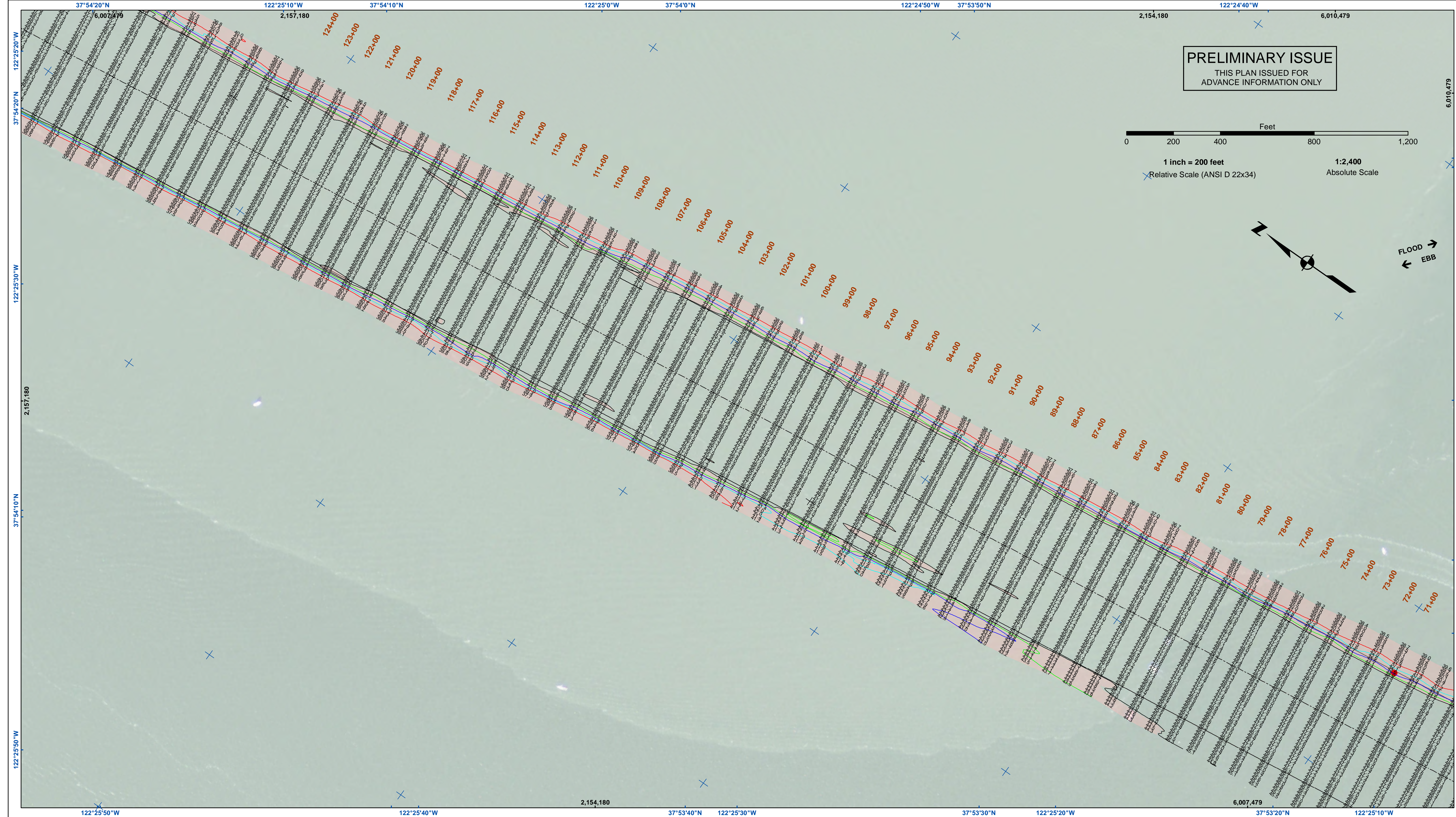
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|--|----------------------------|--|--------------------|--|----------|
| | Federal Navigation Channel | | Beacon, General | | Contours |
| | Shoaling Area | | Obstruction Point | | -45 |
| | Placement Area | | Navigation Buoy | | -44 |
| | Anchorage Area | | Navigation Buoy | | -43 |
| | Wreck Area | | Shoalest Sounding* | | -42 |
| | Submerged Wreck | | | | -41 |
| | 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.
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.
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 LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.
SURVEYED BY THE CORPS OF ENGINEERS.

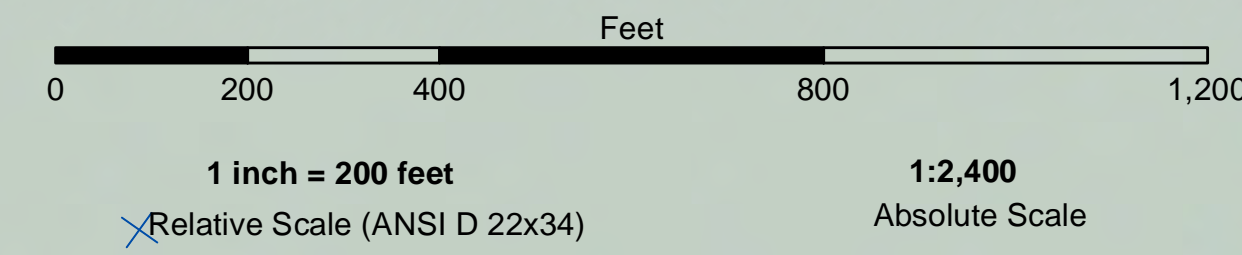
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
BASE MAPS ARE USDA NAIP 2010.
THE PROJECT DEPTHS ARE AS FOLLOWS:
SOUTHAMPTON SHOALS CHANNEL -45 FEET.
LONG WHARF MANEUVERING AREA -45 FEET.
1:00 INDICATED 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 4863 - RICHMOND, CA
941 4290 - SAN FRANCISCO, CA
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.

ALAMEDA COUNTY
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOAL
POST-DREDGE SURVEY
12 JULY 2022

Sheet
Reference
Number
1 of 4



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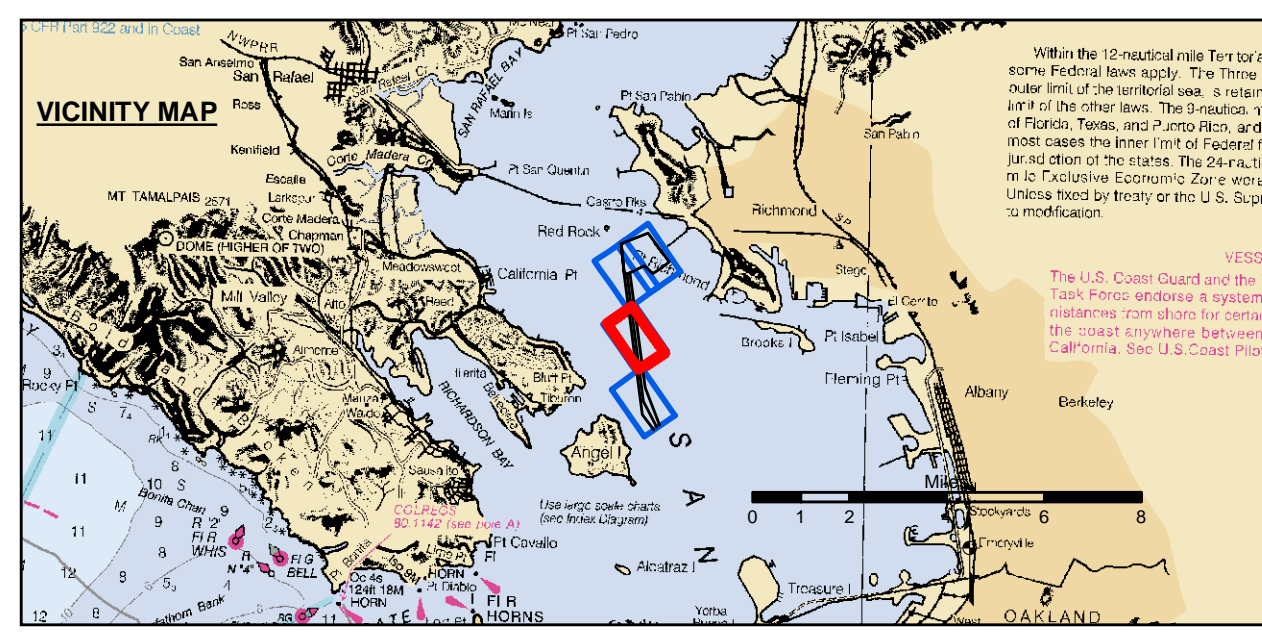


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| Chart Date: | Jul 14, 2022 |
| Designed by: | PDT |
| Plotted by: | PDT |
| Checked by: | PDT |
| Drawn by: | PDT |

ALAMEDA COUNTY
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOALS
POST-DREDGE SURVEY
12 JULY 2022

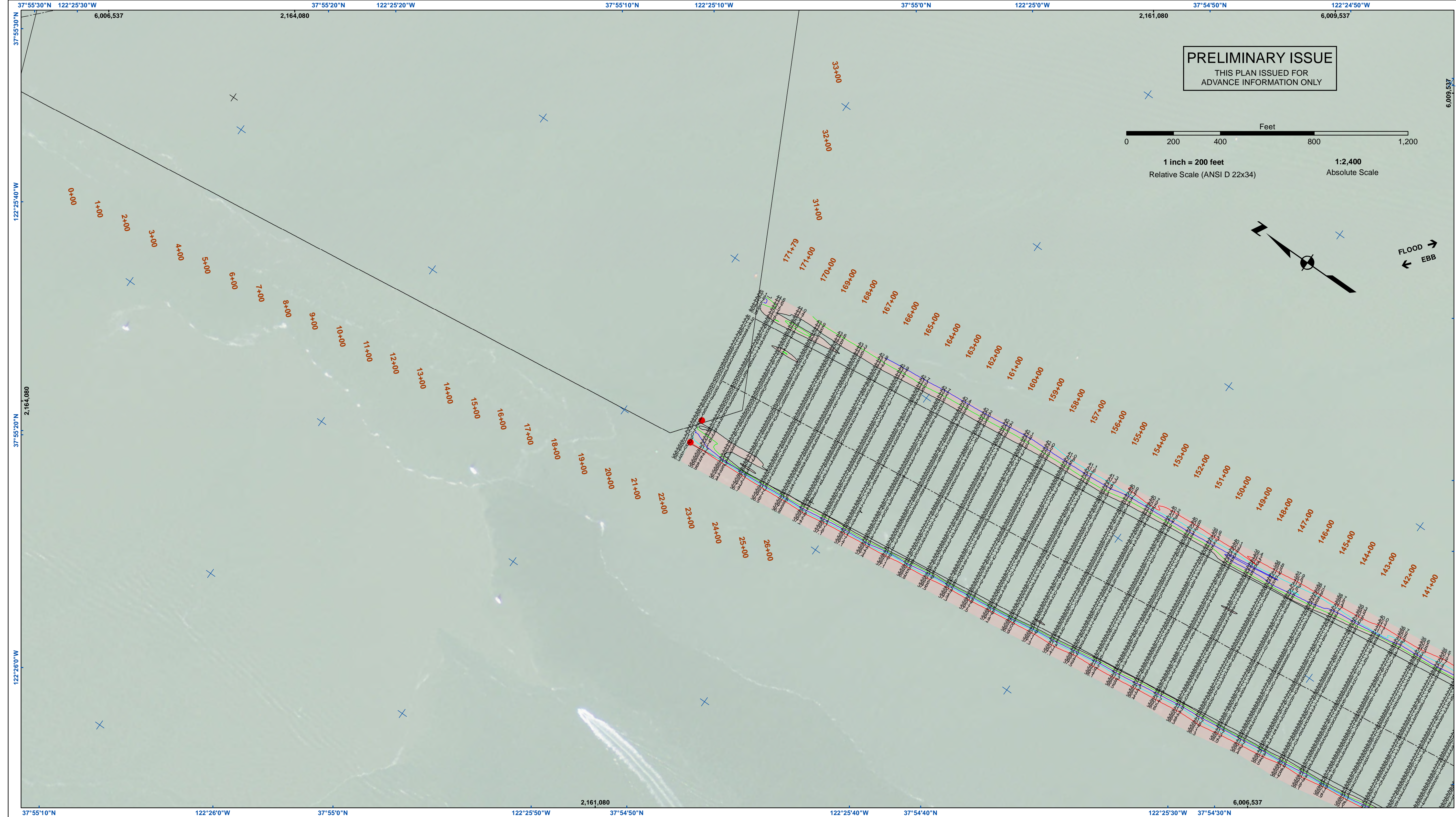


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|--|----------------------------|--|--------------------|--|----------|
| | Federal Navigation Channel | | Beacon, General | | Contours |
| | Shoaling Area | | Obstruction Point | | -44 |
| | Placement Area | | Navigation Buoy | | -43 |
| | Anchorage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

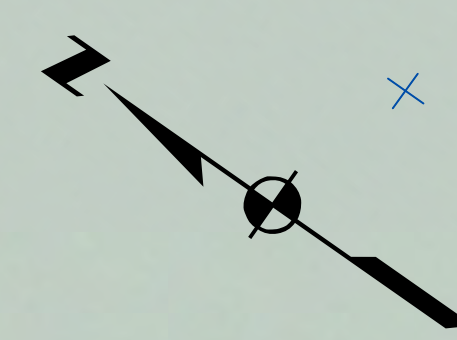
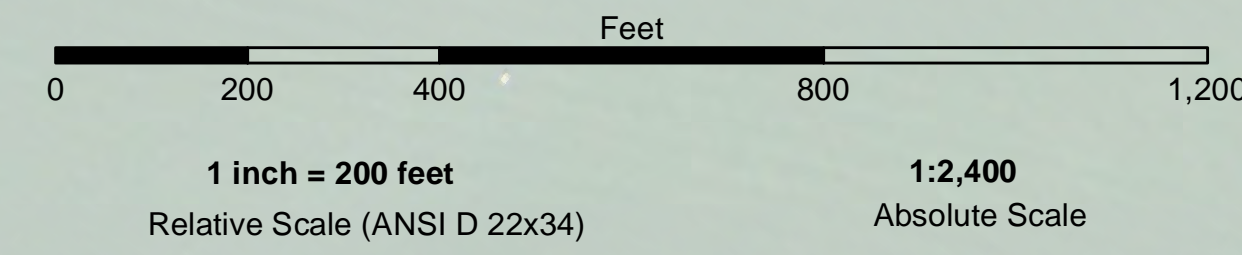
NOTES:
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LONG WHARF MANEUVERING AREA -45 FEET.
1:00 INDICATED THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.
HORIZONTAL CONTROL:
HORIZONTAL POSITIONING: COAST GUARD DGPS
VERTICAL TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
941 4863 - RICHMOND, CA
941 4290 - SAN FRANCISCO, CA
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.

Sheet
Reference
Number
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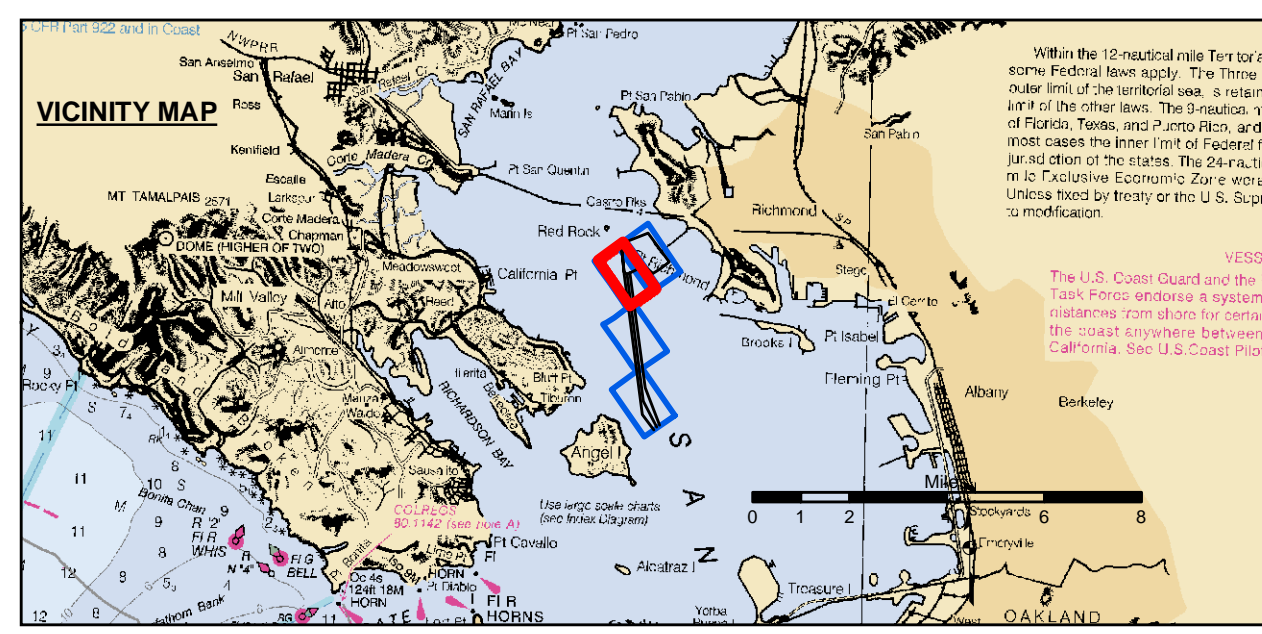
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|-----------------------------------|----------------------------|--------------|
| Prepared Under the Direction of | Surveyed By | Chart Date |
| LT COLONEL C.E. DISTRICT ENGINEER | KEVIN P. ARNETT | Jul 14, 2022 |
| Submitted | Plotted By | Designed by |
| Hydro Survey Team Leader | PDT | PDT |
| Recommended | Checked By | Drawn by |
| Chief, Hydro Survey Section | PDT | PDT |
| Approved | Chief, Construction Branch | |

ALAMEDA COUNTY
CALIFORNIA
RICHMOND OUTER HARBOR
SOUTHAMPTON SHOALS
POST-DREDGE SURVEY
12 JULY 2022

Sheet
Number
3 of 4



- | | | |
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| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -45 |
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941 4290 - SAN FRANCISCO, CA
VERTICAL CONTROL:
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