

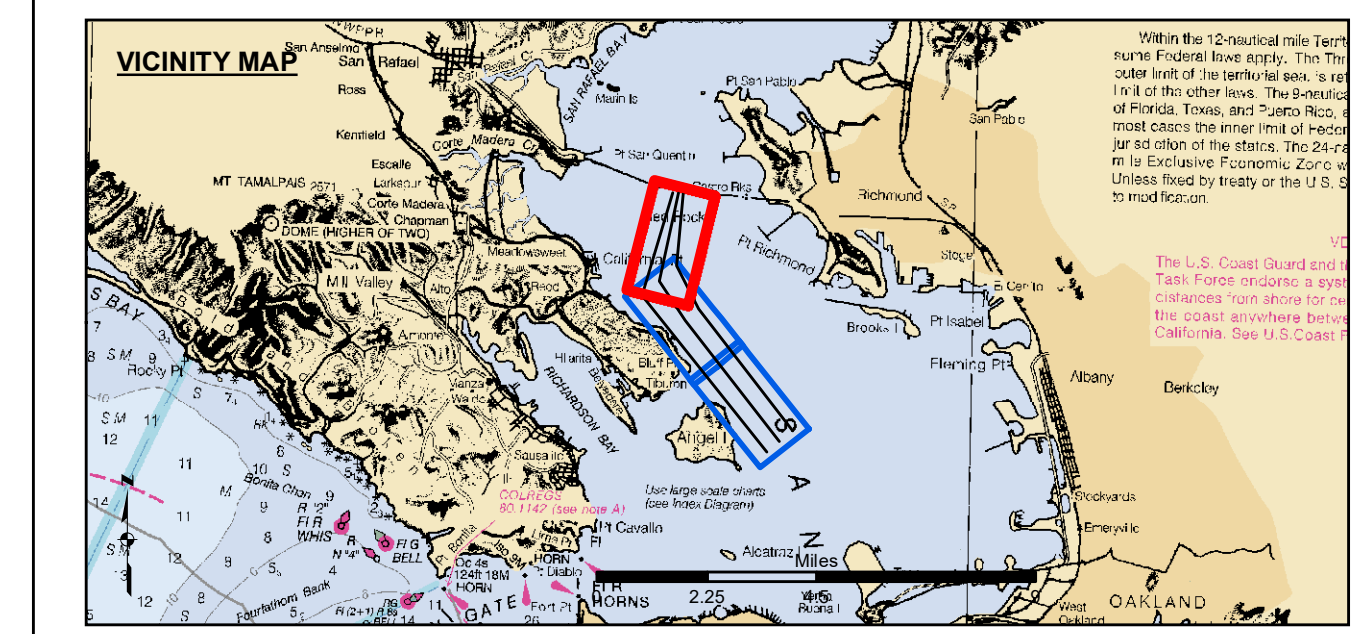
US Army Corps of Engineers
 San Francisco District
 1455 Market Street
 San Francisco, CA 94103

DISCLAIMER
 The United States Government furnishes this information as a service to the public and does not warrant, express or implied, the accuracy, completeness, or reliability of the information. The user is responsible for the results of any use of the information for purposes other than those intended by the Government. These data belong to the Government. Therefore, the user is prohibited from transferring these data to others without also transferring this disclaimer.

| | | | |
|---------------------------------|-----------------|-------------|--------------|
| Prepared Under the Direction of | KEVIN P. ARNETT | Chart Date | Nov 07, 2022 |
| Surveyed By | PDT | Designed by | PDT |
| Plotted By | PDT | Checked by | PDT |
| Reviewed by | PDT | Drawn by | PDT |

CONTRA COSTA COUNTY
 NORTH SHIP CHANNEL
 CONDITION SURVEY
 27 SEPTEMBER
 AND 04 NOVEMBER 2022

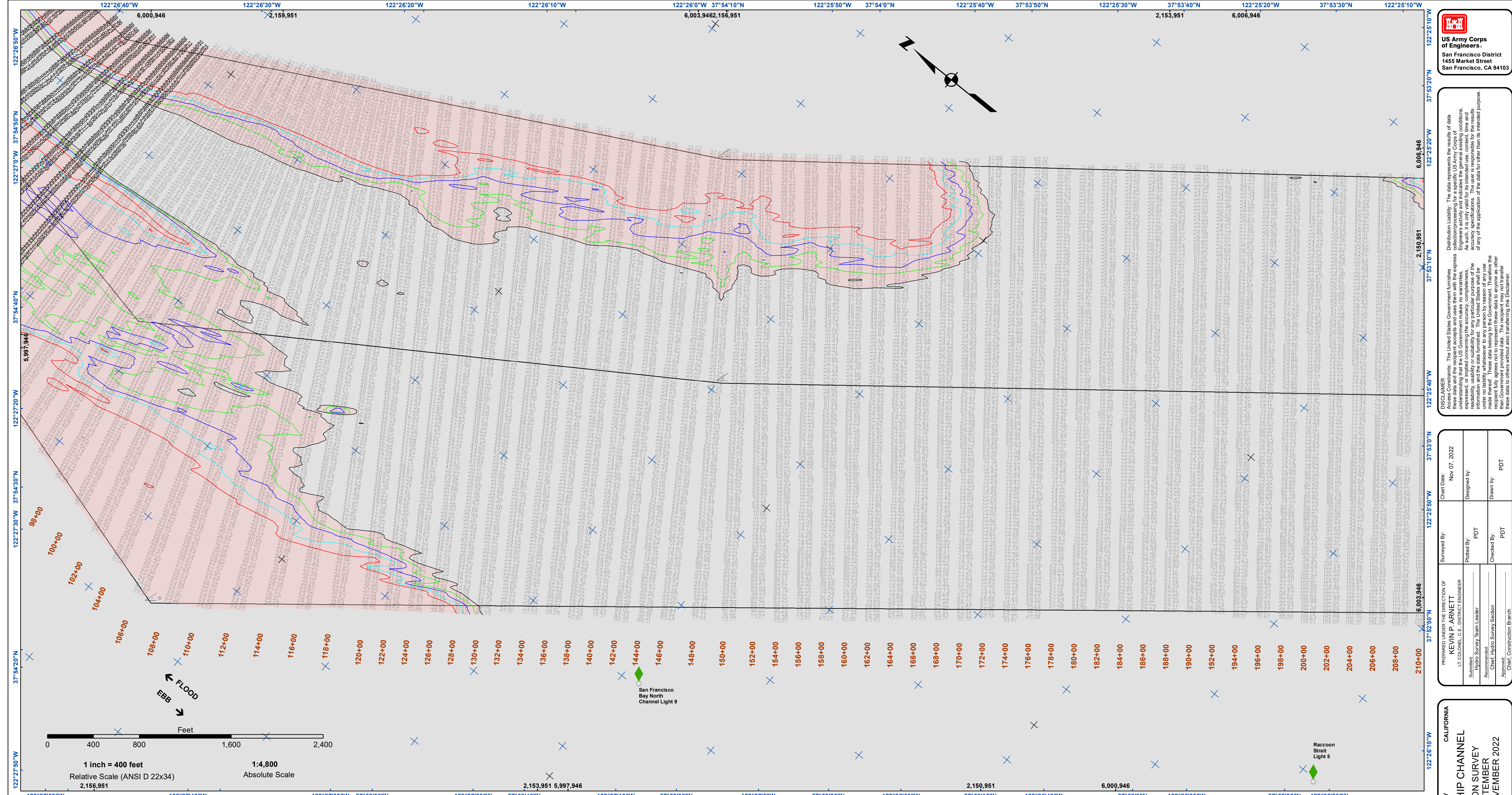
Sheet Reference Number
1 of 3



- 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
- 45
- 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.
 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.
 BASE MAPS ARE USDA NAIP 2010.
 *SHOALEST SOUNDING PER QUARTER PER REACH

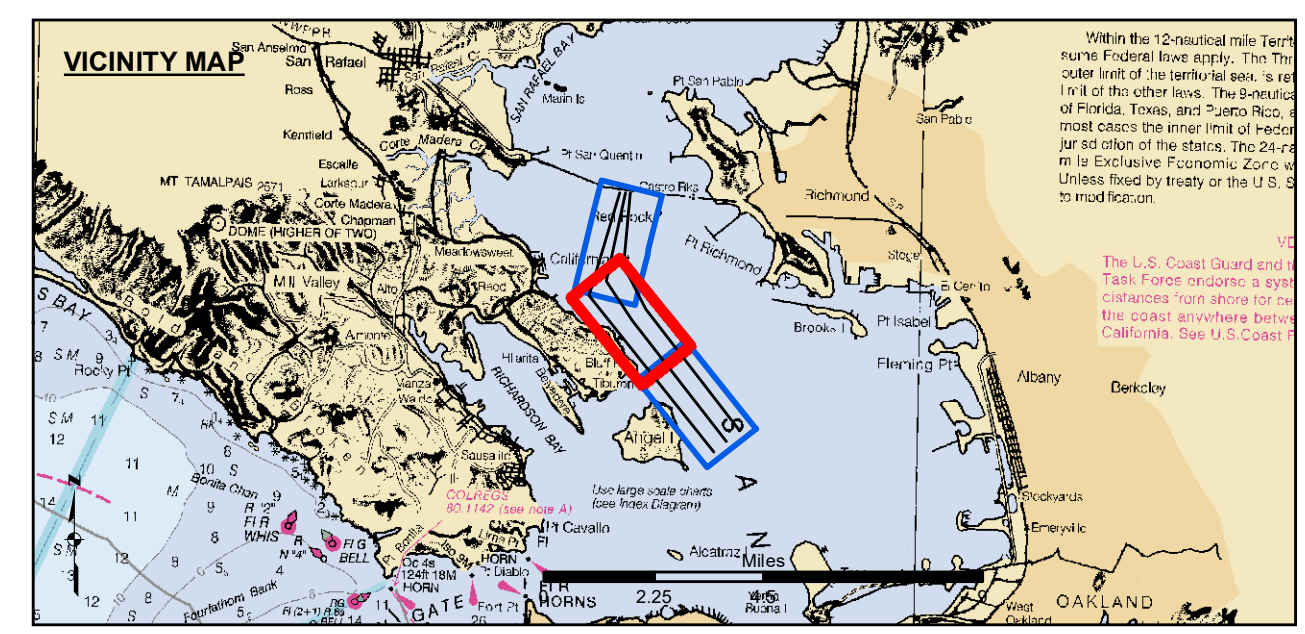
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
 SURVEYED BY THE CORPS OF ENGINEERS.
 THE PROJECT DEPTH IS -45 FEET AT MLLW.
 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.
 SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT TIBERON NET DEPOT.
 HORIZONTAL CONTROL:
 COAST GUARD D-BEACON
 VERTICAL CONTROL:
 BENCHMARK "10" (1937) ELEV. 15.86 FT. MLLW.
 BENCHMARK "11" (1946) ELEV. 15.47 FT. MLLW.



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

DISCLAIMER
 The United States Government furnishes this information as a public service and does not warrant, express or implied, the accuracy, completeness, or reliability of the information. The user is responsible for the results of any use of the information for purposes other than those intended by the Government. The user may not transfer these data to others without also transferring this Disclaimer.

| | |
|------------------------------------|--------------|
| Prepared Under the Direction of: | Chart Date: |
| KEVIN P. ARNETT | Nov 07, 2022 |
| LT Colonel, C.E. District Engineer | Designed by: |
| Hydro Survey Team Leader | PDT |
| Recommended by: | Checked by: |
| Chief, Hydro Survey Section | PDT |
| Approved: | Drawn by: |
| Chief, Construction Branch | PDT |



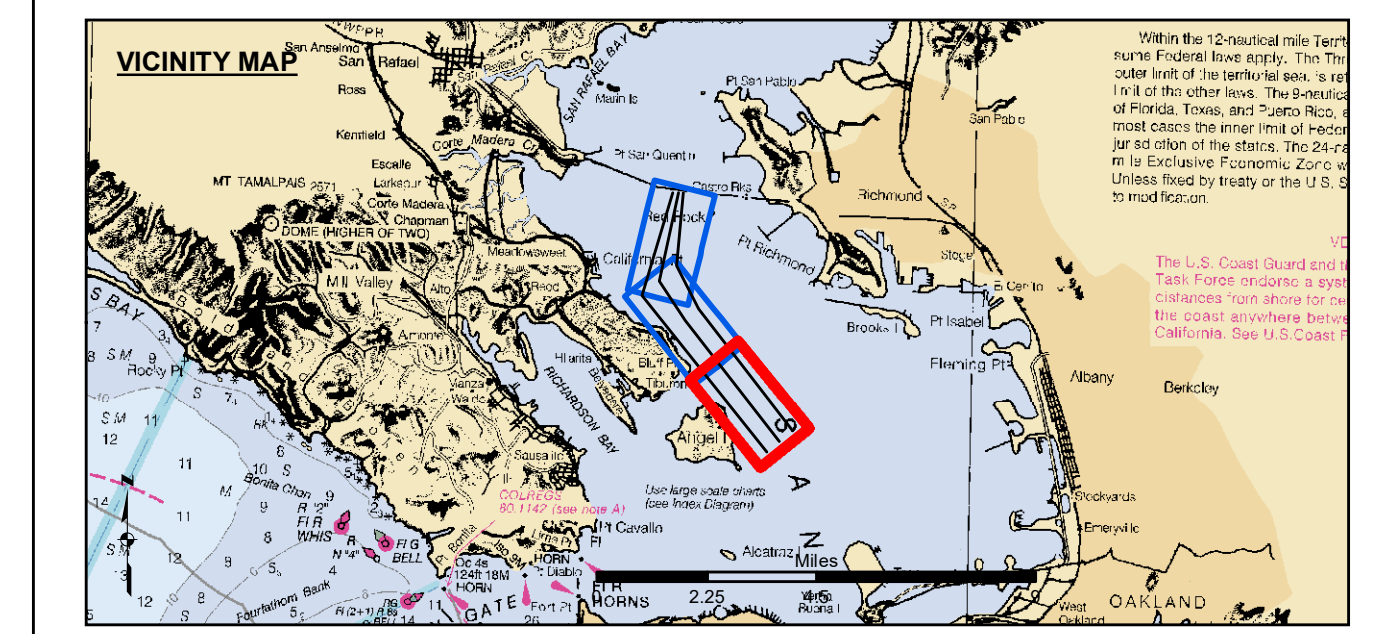
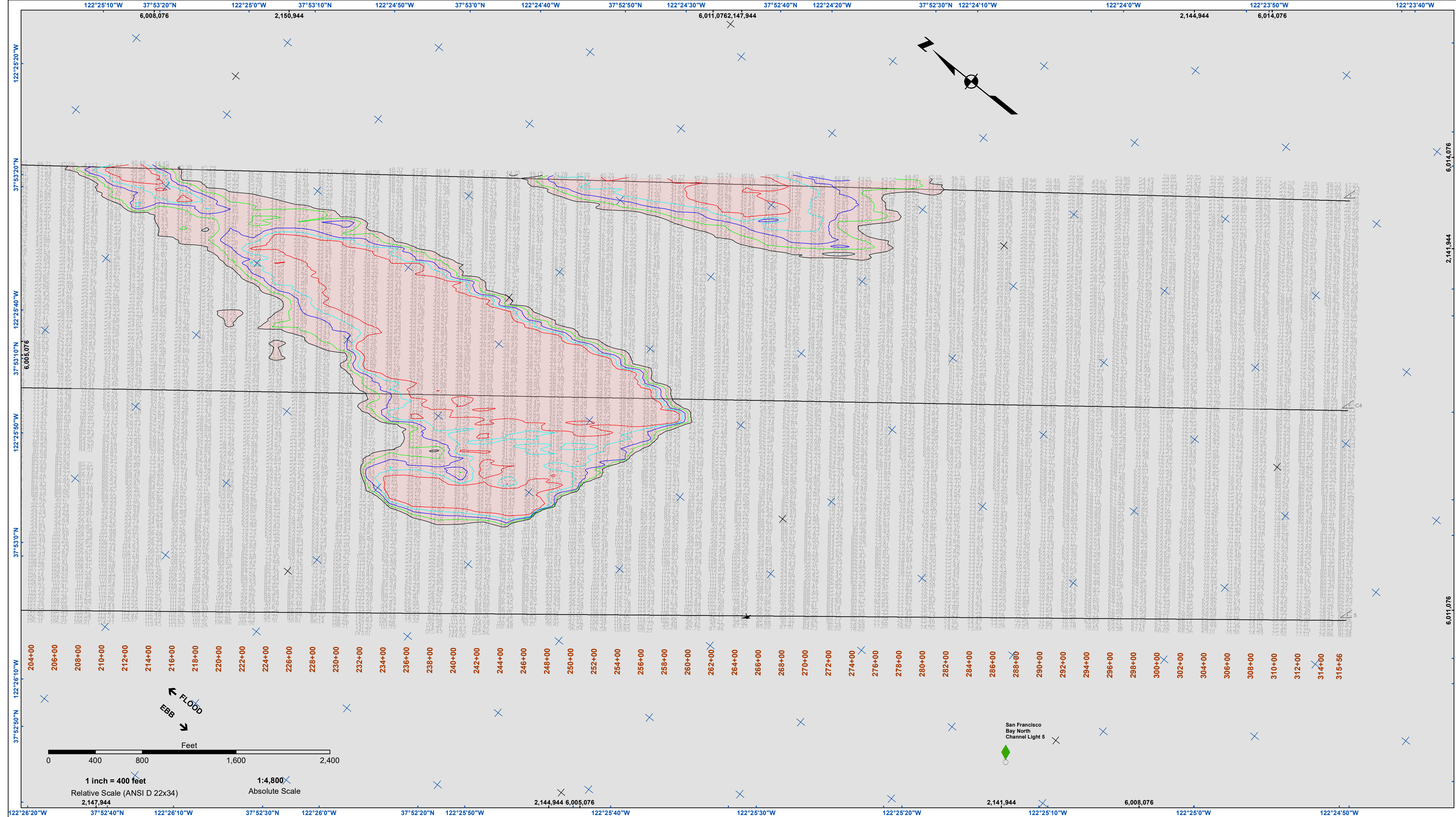
- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Contours**
- 45
- 44
- 43
- 42
- 41

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.
 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.
 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.
 SURVEYED BY THE CORPS OF ENGINEERS.
 THE PROJECT DEPTH IS -45 FEET AT MLLW.
 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.
 SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT TIBERON NET DEPOT.
 HORIZONTAL CONTROL:
 COAST GUARD D-BEACON
 VERTICAL CONTROL:
 BENCHMARK "10" (1937) ELEV. 15.86 FT. MLLW.
 BENCHMARK "11" (1946) ELEV. 15.47 FT. MLLW.

CALIFORNIA
 CONTRA COSTA COUNTY
NORTH SHIP CHANNEL
 CONDITION SURVEY
 27 SEPTEMBER
 AND 04 NOVEMBER 2022

Sheet Reference Number
 2 of 3



- 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
- 45
- 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.
 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.
 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.
 SURVEYED BY THE CORPS OF ENGINEERS.
 THE PROJECT DEPTH IS -45 FEET AT MLLW.
 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.
 SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT TIBERON NET DEPOT.
 HORIZONTAL CONTROL:
 COAST GUARD D-BEACON
 VERTICAL CONTROL:
 BENCHMARK "10" (1937) ELEV. 15.86 FT. MLLW.
 BENCHMARK "11" (1946) ELEV. 15.47 FT. MLLW.

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

DISCLAIMER
 The United States Government furnishes this information as a public service. It is not intended to be used for any purpose other than that for which it was prepared. The United States Government makes no warranty, expressed or implied, concerning the accuracy, completeness, or reliability of the information. The user is responsible for the results of any use of the information. The user is responsible for the results of any use of the information. The user is responsible for the results of any use of the information. The user is responsible for the results of any use of the information.

| | | | |
|---------------------------------|-----------------------------|------------|--------------|
| Prepared Under the Direction of | KEVIN P. ARNETT | Chart Date | Nov 07, 2022 |
| Submittal | Hydro Survey Team Leader | Flatted By | PDT |
| Recommended | Chief, Hydro Survey Section | Checked By | PDT |
| Approved | Chief, Construction Branch | Drawn by | PDT |

CALIFORNIA
 CONTRA COSTA COUNTY
NORTH SHIP CHANNEL
 CONDITION SURVEY
 27 SEPTEMBER
 AND 04 NOVEMBER 2022
Sheet Reference Number 3 of 3