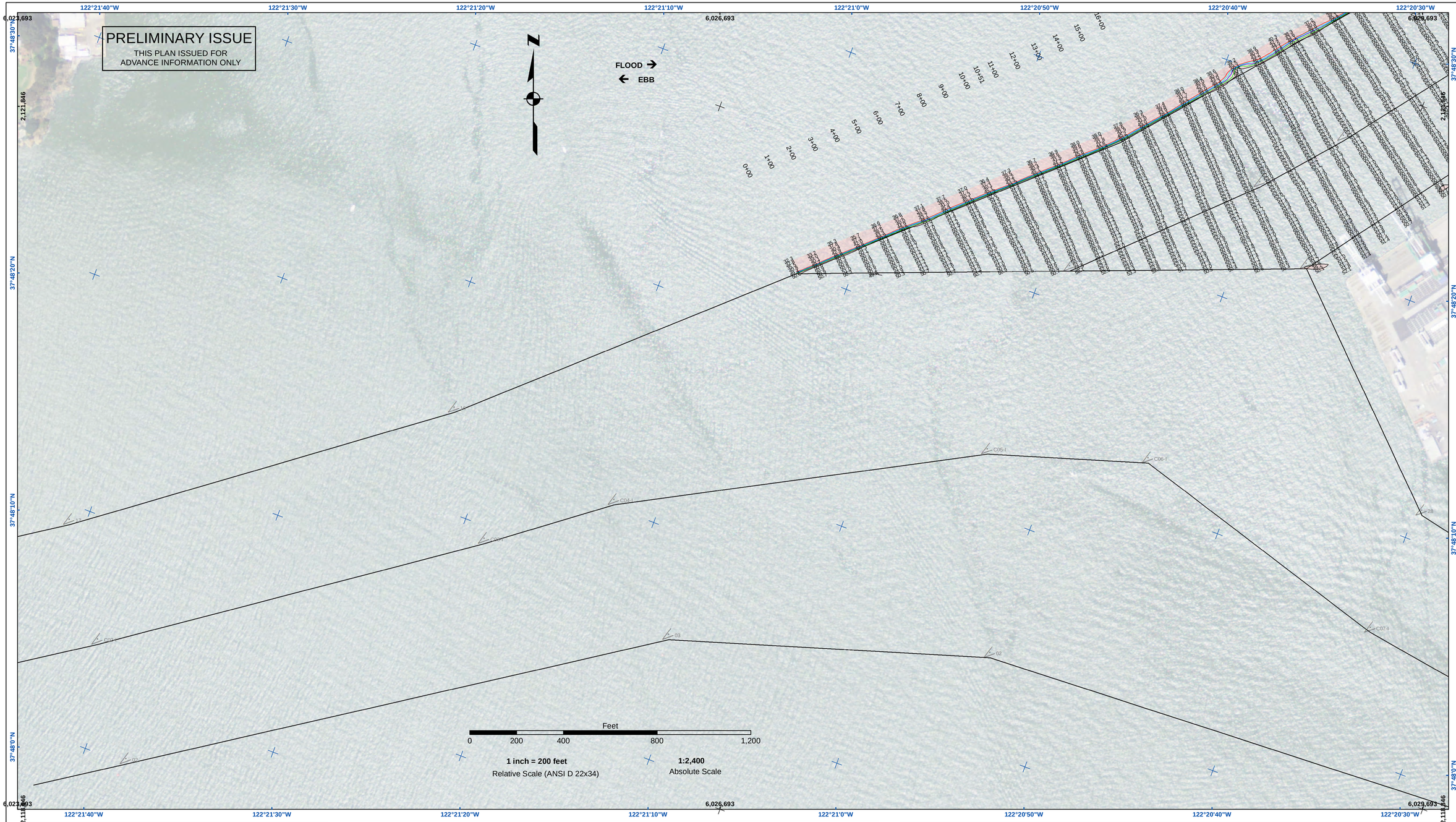

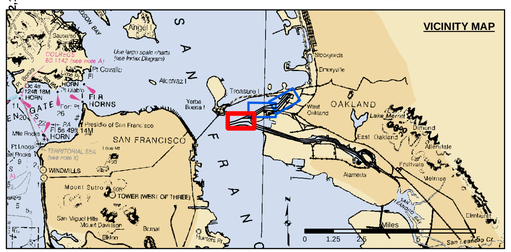

Federal Navigation Channel
Shoaling Area
Placement Area
Anchorage Area
Wreck Area
Submerged Wreck
Angle Point

Beacon, General
Obstruction Point
Navigation Buoy
Navigation Buoy
Shoalest Sounding*

Contours
-50
-49
-48
-47
-46

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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SURVEYED BY THE CORPS OF ENGINEERS.
BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

VERTICAL CONTROL:
PPCP: PORT 1 1936/PID HT0654.
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.

LPCP 1: 941 4777 B TIDAL/PID AE5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR.
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LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAV TUG TERMINAL AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND DATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

HORIZONTAL CONTROL:
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SECONDARY: COAST GURAD DGPS D-BEACON

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Chart Date: Apr 05, 2023
Surveyed By:
Plotted By:
Designed by:
Checked By:
Drawn by:

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader
Recommended:
Navigation Technical Manager
Approved:
Project Manager

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
OUTER HARBOR
POST-DREDGE SURVEY
23-24, 28 AUGUST
08 SEPTEMBER 2022
17 JANUARY 2023

Sheet Reference Number
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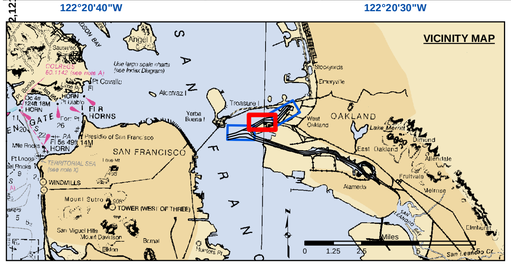

Federal Navigation Channel
Shoaling Area
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Wreck Area
Submerged Wreck
Angle Point

Beacon, General
Obstruction Point
Navigation Buoy
Navigation Buoy
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Chart Date: Apr 05, 2023
Surveyed By:
Plotted By:
Checked By:
Drawn by:

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader
Recommended:
Navigation Technical Manager
Approved:
Project Manager

ALAMEDA COUNTY CALIFORNIA
OAKLAND HARBOR
OUTER HARBOR
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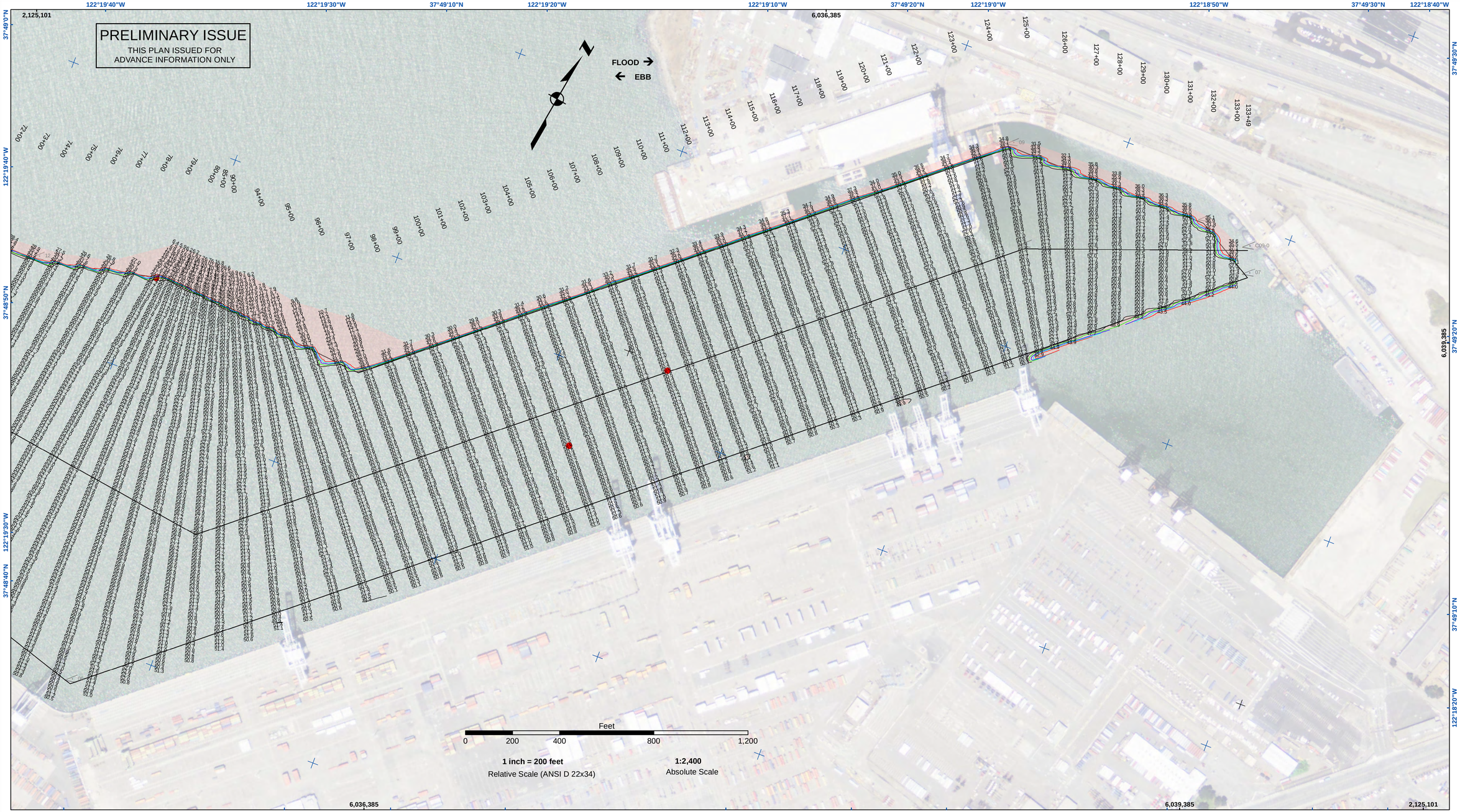

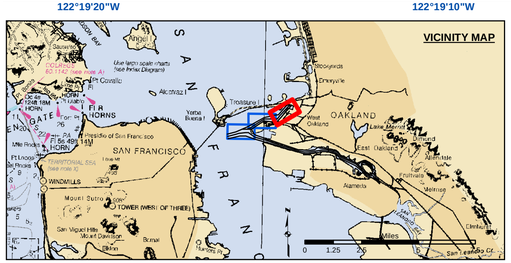

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- Wreck Area
- Submerged Wreck
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PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E. DISTRICT ENGINEER

Surveyed By:	Chart Date: Apr 05, 2023
Plotted By:	Designed by:
Checked By:	Drawn by:

Submitted: Hydro Survey Team Leader
Recommended: Navigation Technical Manager
Approved: Project Manager

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