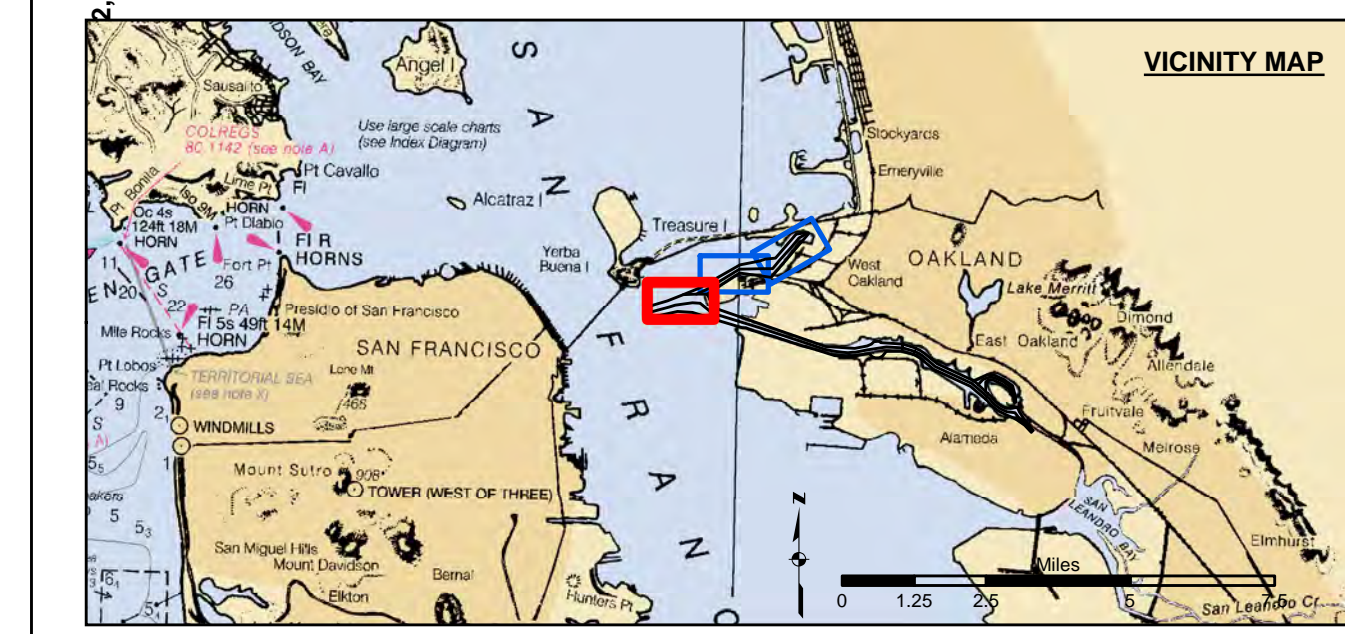
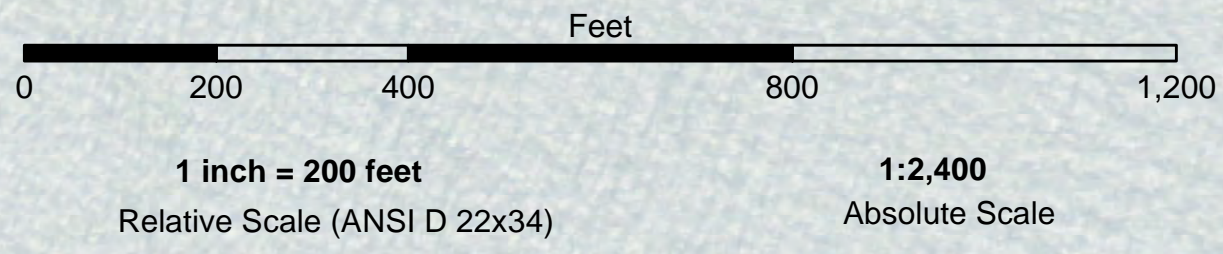


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

FLOOD →
← EBB



- 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:
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.
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. NAVD 88.
BASE MAPS ARE USDA NAIP 2010.
SURVEYED BY THE CORPS OF ENGINEERS.

VERTICAL CONTROL:
PPCP: PORT 1 1836PID 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 TIDALPID A5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR. ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDUTUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
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 BERTH 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GURAD DGPS D-BEACON

PROJECT DEPTH OF OUTER AND INNER HARBOR IS -50 FEET.
TIDAL CANAL PROJECT DEPTH IS 18 FEET.

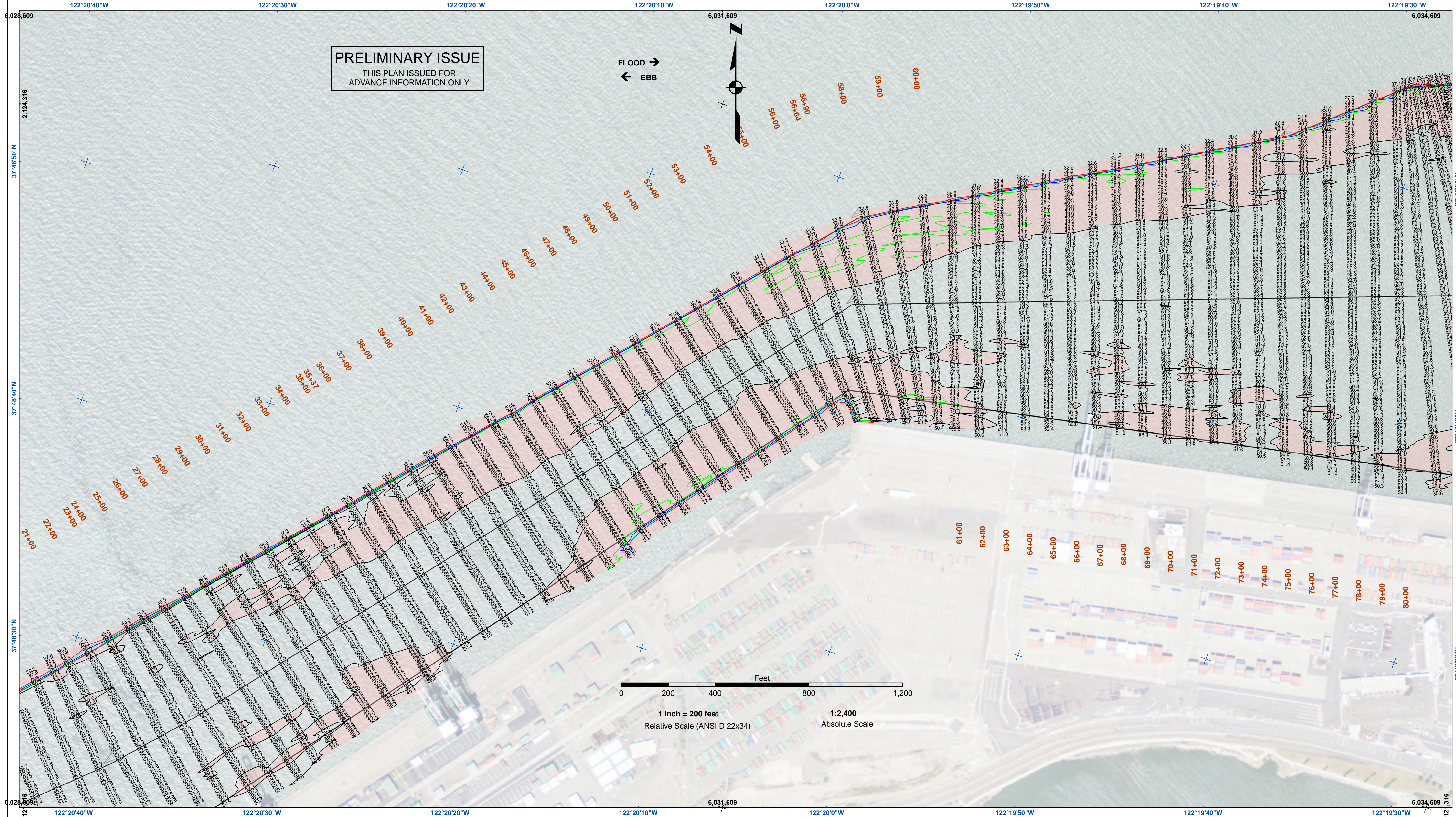
US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

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Prepared Under the Direction of:	Chart Date:
JOHN D. CUNNINGHAM	Apr 01, 2020
Surveyed By:	Designed by:
BRIAN BECKER EMIL CAPATI	ELLEN CHOY
Plotted By:	Checked By:
PAUL CHEN	PAUL CHEN
Hydro Survey Team Leader	Navigation Technical Manager
DAVID DOAK	IRENE LEE
Approved:	Project Manager

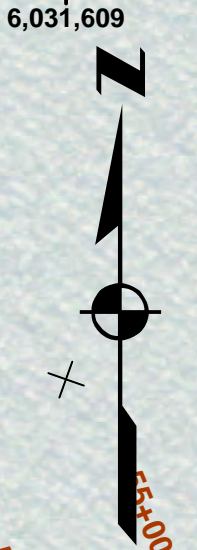
ALAMEDA COUNTY
CALIFORNIA
**OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
26 MARCH 2020**

**Sheet
Reference
Number
1 of 3**

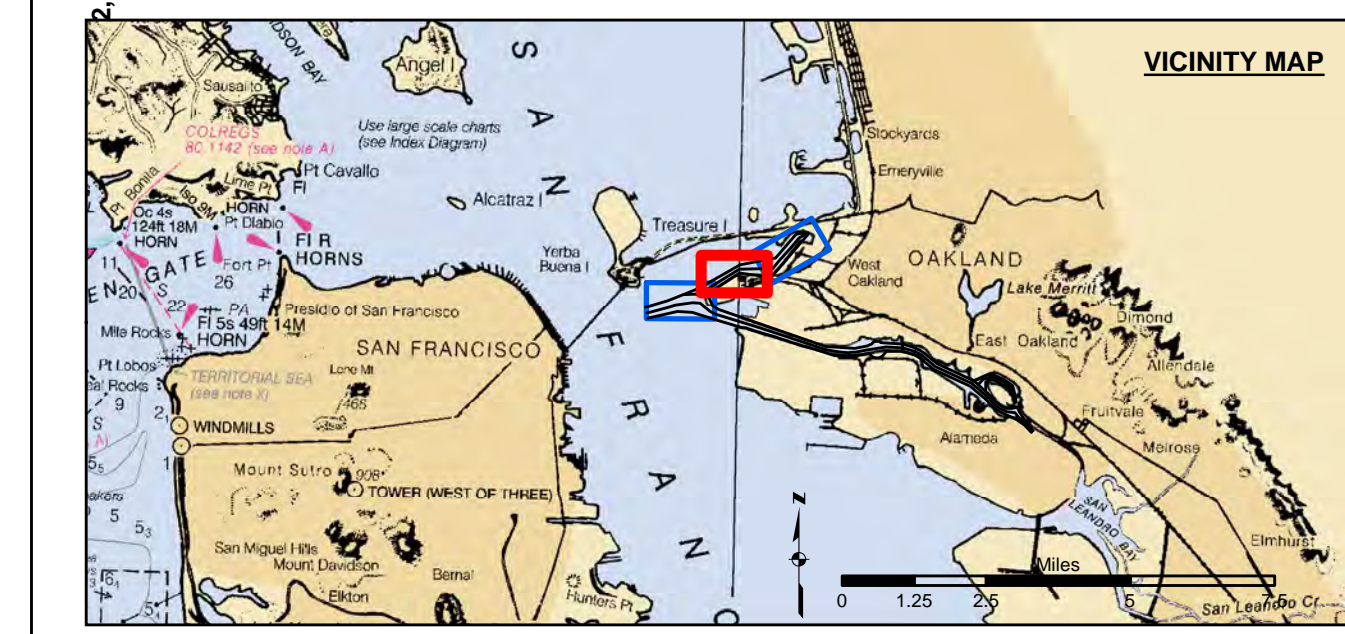


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FLOOD →
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0 200 400 800 1,200
Feet
1 inch = 200 feet
Relative Scale (ANSI D 22x34)
1:2,400
Absolute Scale



- Federal Navigation Channel
- Shoaling Area
- Placement Area
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- Wreck Area
- Submerged Wreck
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. NAVD 88.
BASE MAPS ARE USDA NAIP 2010.
SURVEYED BY THE CORPS OF ENGINEERS.
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.
PROJECT DEPTH OF OUTER AND INNER HARBOR IS -50 FEET.
DRAWING DEPTH FROM INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS 35 FEET.
TIDAL CANAL PROJECT DEPTH IS 18 FEET.

VERTICAL CONTROL:
PPCP: PORT 1 1836PID HT0854.
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.
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Apr 01, 2020
Submittal: PAUL CHEN	Designed by: ELLEN CHOY
Recommended by: DAVID DOAK Navigation Technical Manager	Drawn by: PAUL CHEN
Approved: IRENE LEE Project Manager	

CALIFORNIA
ALAMEDA COUNTY
OAKLAND HARBOR
OUTER HARBOR
CONDITION SURVEY
26 MARCH 2020

Sheet
Reference
Number
2 of 3

