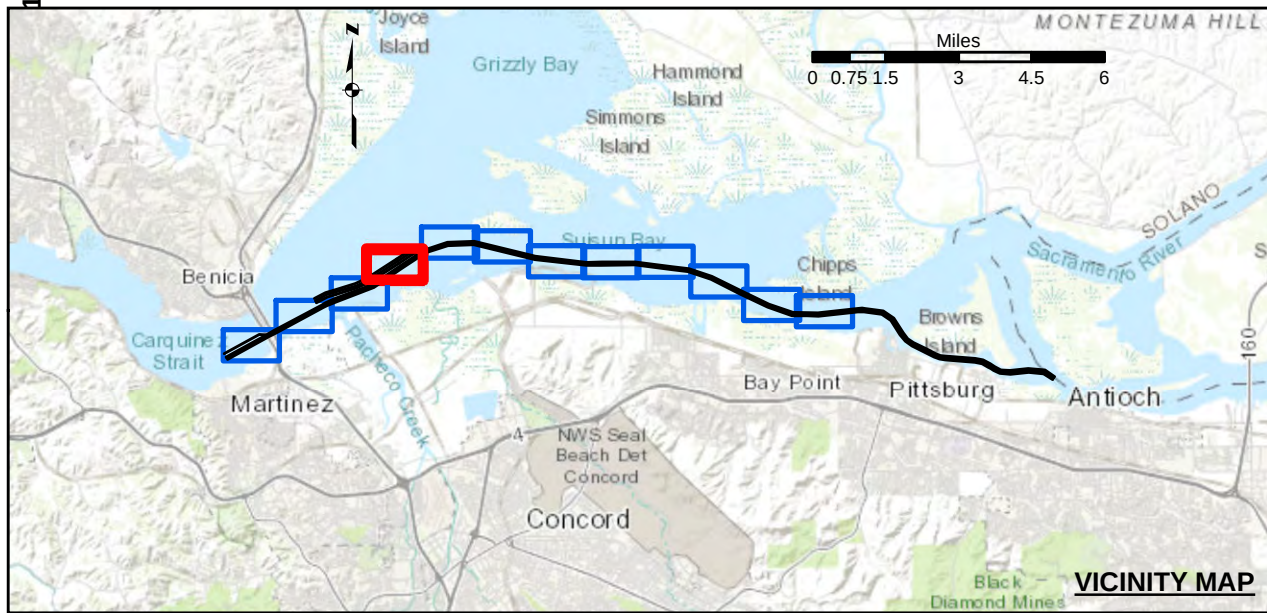
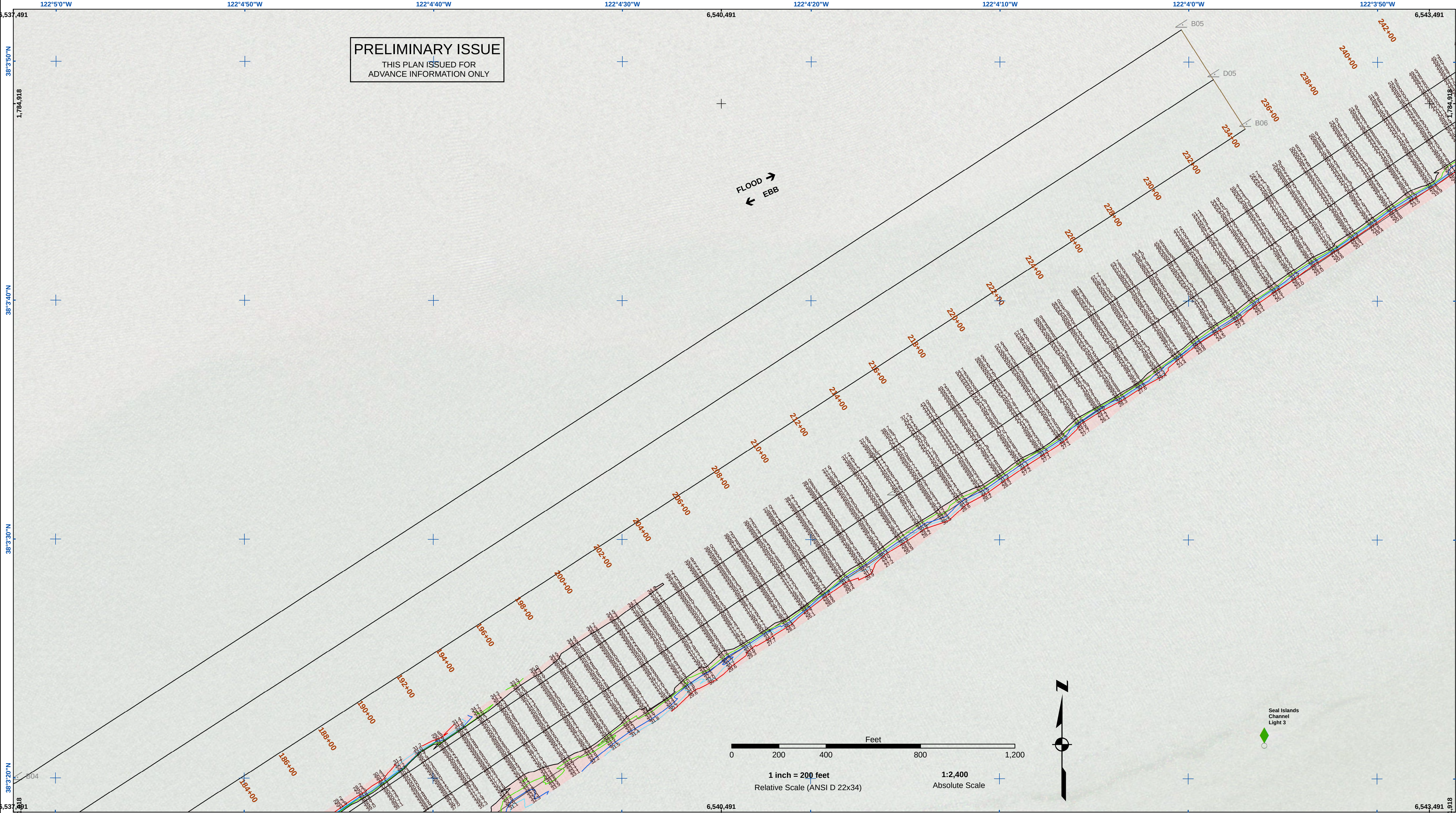




Federal Navigation Channel

Shoaling Area

Placement Area

Anchorage Area

Wreck Area

Submerged Wreck

Angle Point

Beacon, General

Obstruction Point

Navigation Buoy

Navigation Buoy

Shoalest Sounding*

Contours

-35

-34

-33

-32

-31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
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*SHOALEST SOUNDING PER QUARTER PER REACH

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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.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLW.
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
(LINES 500+00 TO 660+00) BENCHMARK "5144-P" (1990 RESET 1997),
USC&GS DISK, ELEV 11.83 FT MLW.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
USC&GS DISK, ELEV 21.76 FT MLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON


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San Francisco, CA 94102

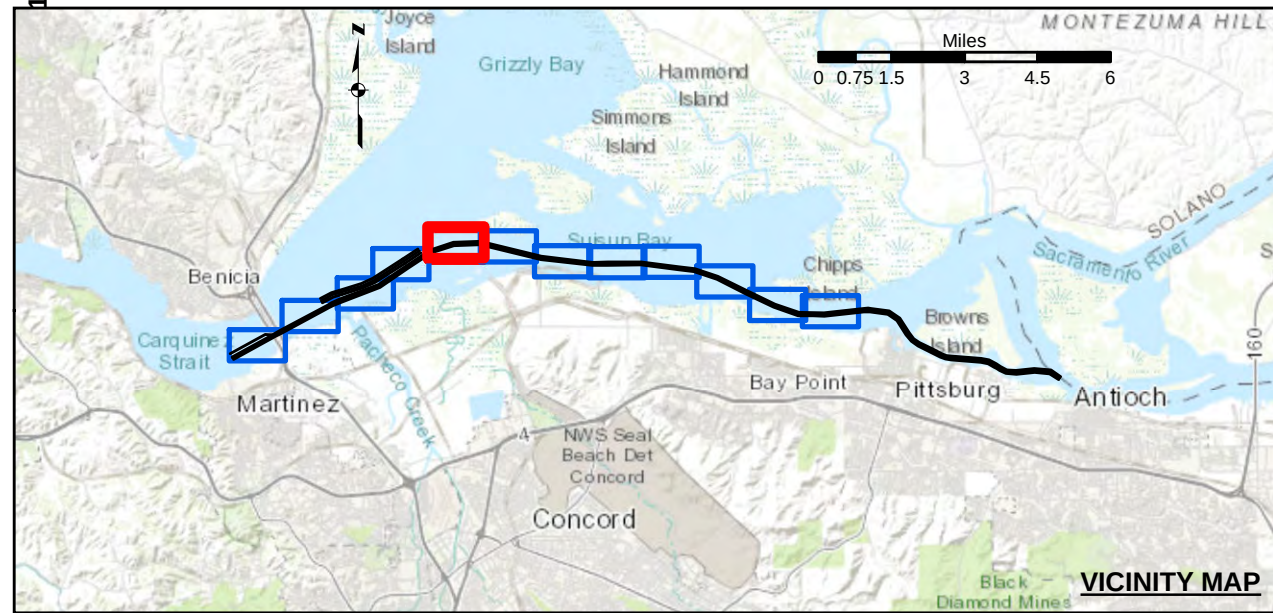
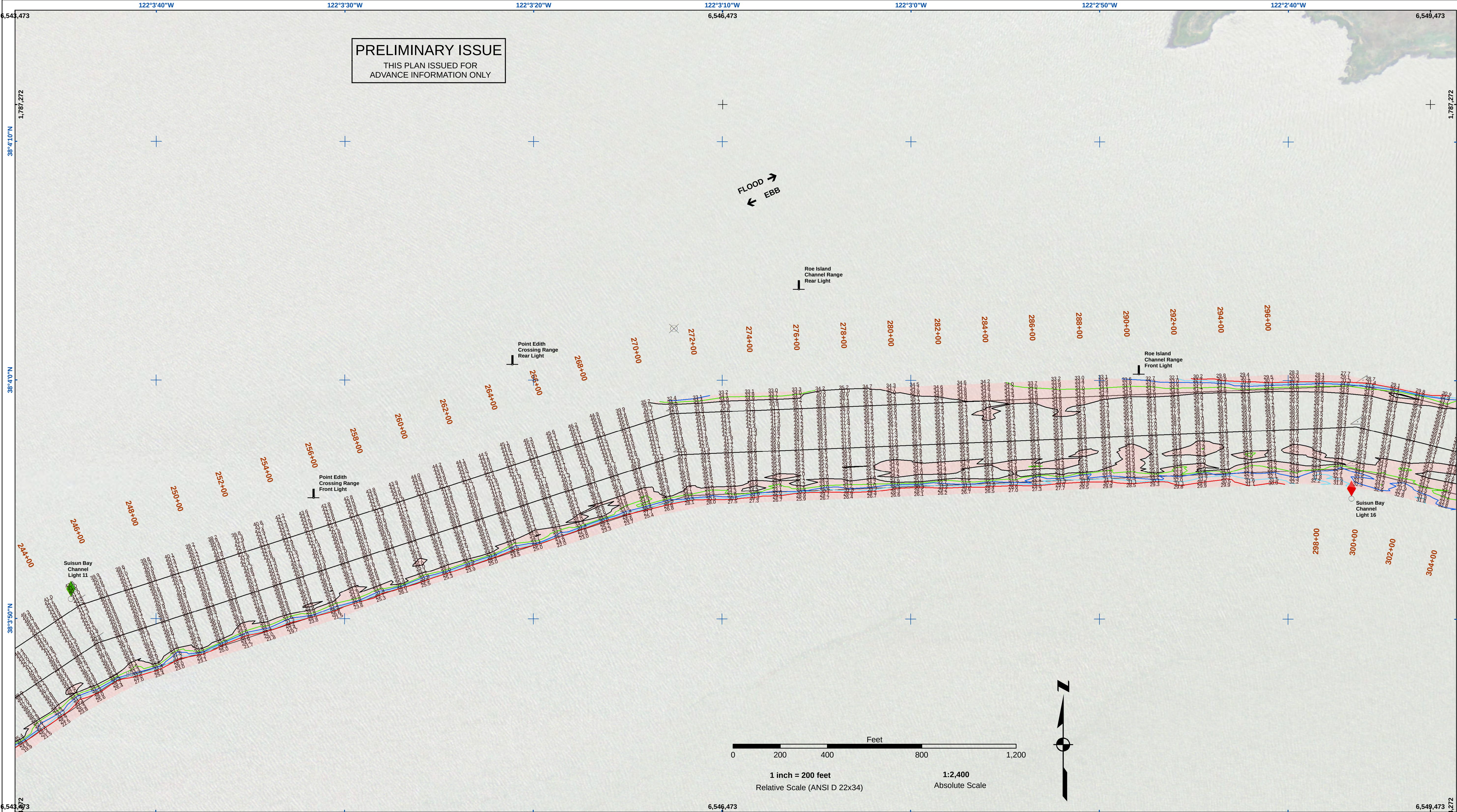
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PREPARED UNDER THE DIRECTION OF LT COLONEL J. RAYFIELD	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Flotted By:	May 23, 2019
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief Construction Branch	PDT	Drawn by:
		PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 MAY 2019

**Sheet
Reference
Number**
4 of 12



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

-35

-34

-33

-32

-31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

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TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

US Army Corps
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San Francisco, CA 94102

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Submitted: Hydro Survey Team Leader	Plotted By:	May 23, 2019
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief Construction Branch	PDT	Drawn by:
	PDT	PDT

CALIFORNIA

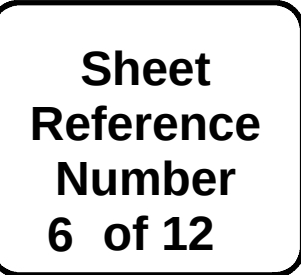
CONTRA COSTA COUNTY

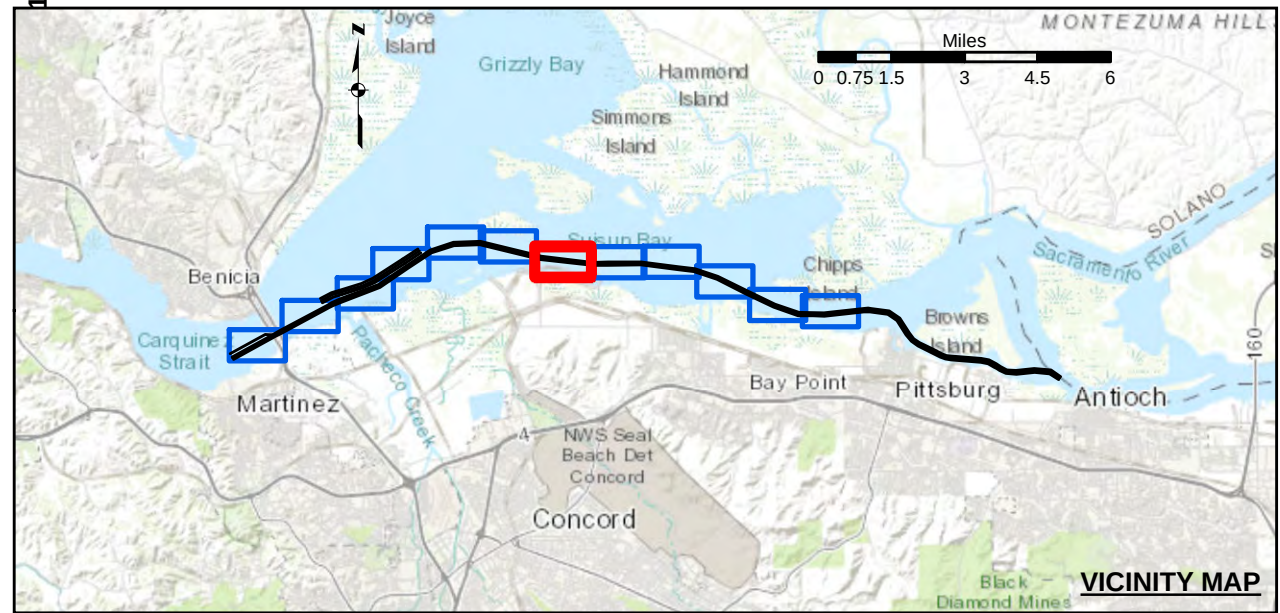
SUISUN BAY CHANNEL

CONDITION SURVEY

16-20 MAY 2019

Sheet
Reference
Number
5 of 12





- 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

-35

-34

-33

-32

-31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
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TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

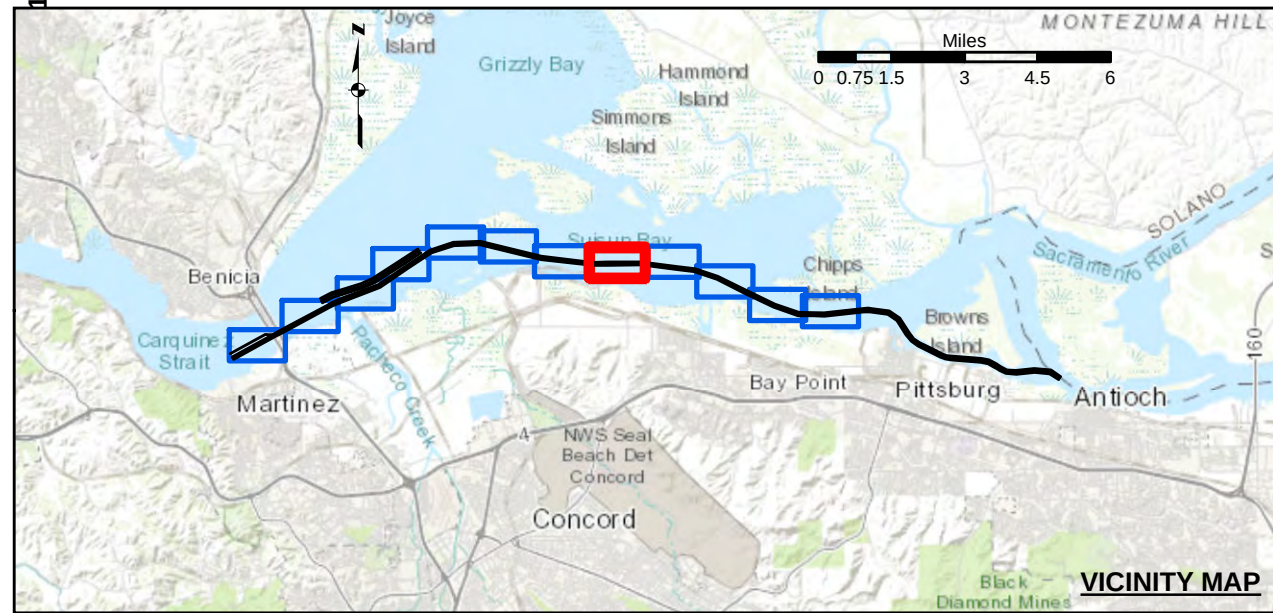
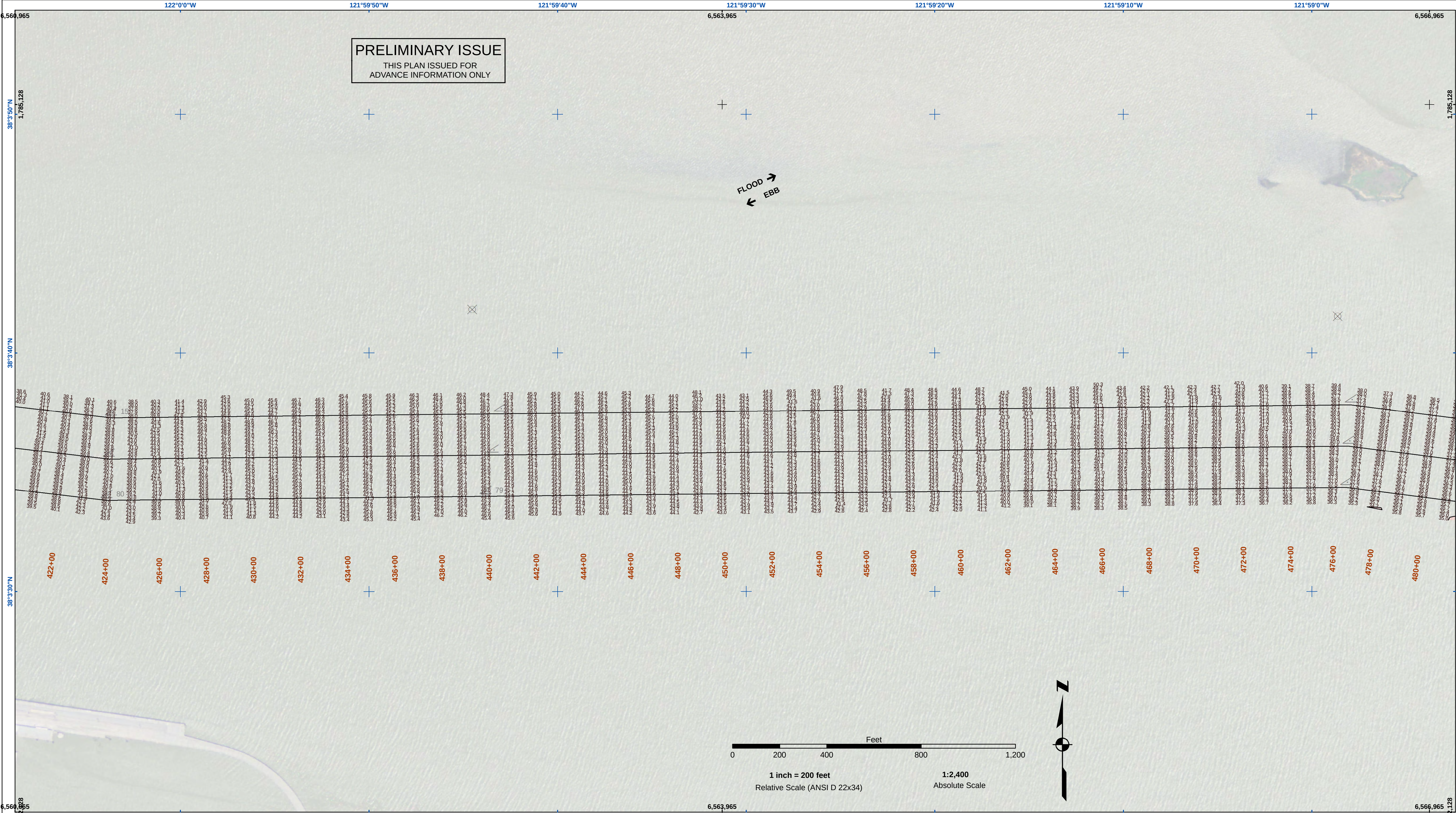

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PREPARED UNDER THE DIRECTION OF LT COLONEL J. RAYFIELD	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Flotted By:	May 23, 2019
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief Construction Branch	PDT	PDT

CALIFORNIA
CONTRA COSTA COUNTY
**SUISUN BAY CHANNEL
CONDITION SURVEY**
16-20 MAY 2019

**Sheet
Reference
Number**
7 of 12



- 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

-35

-34

-33

-32

-31

NOTES:

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BASE MAPS ARE USDA NAIP 2010.

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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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PREPARED UNDER THE DIRECTION OF TRAVIS J. RAYFIELD LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: May 23, 2019
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT
Approved: Chief, Construction Branch	Drawn by: PDT

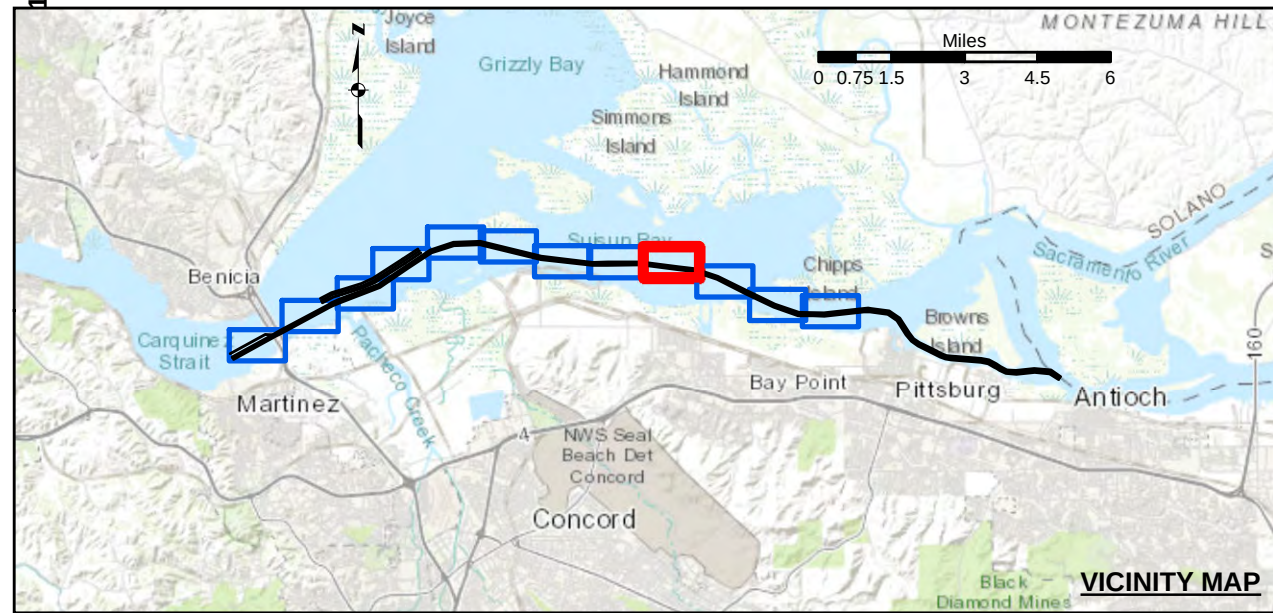
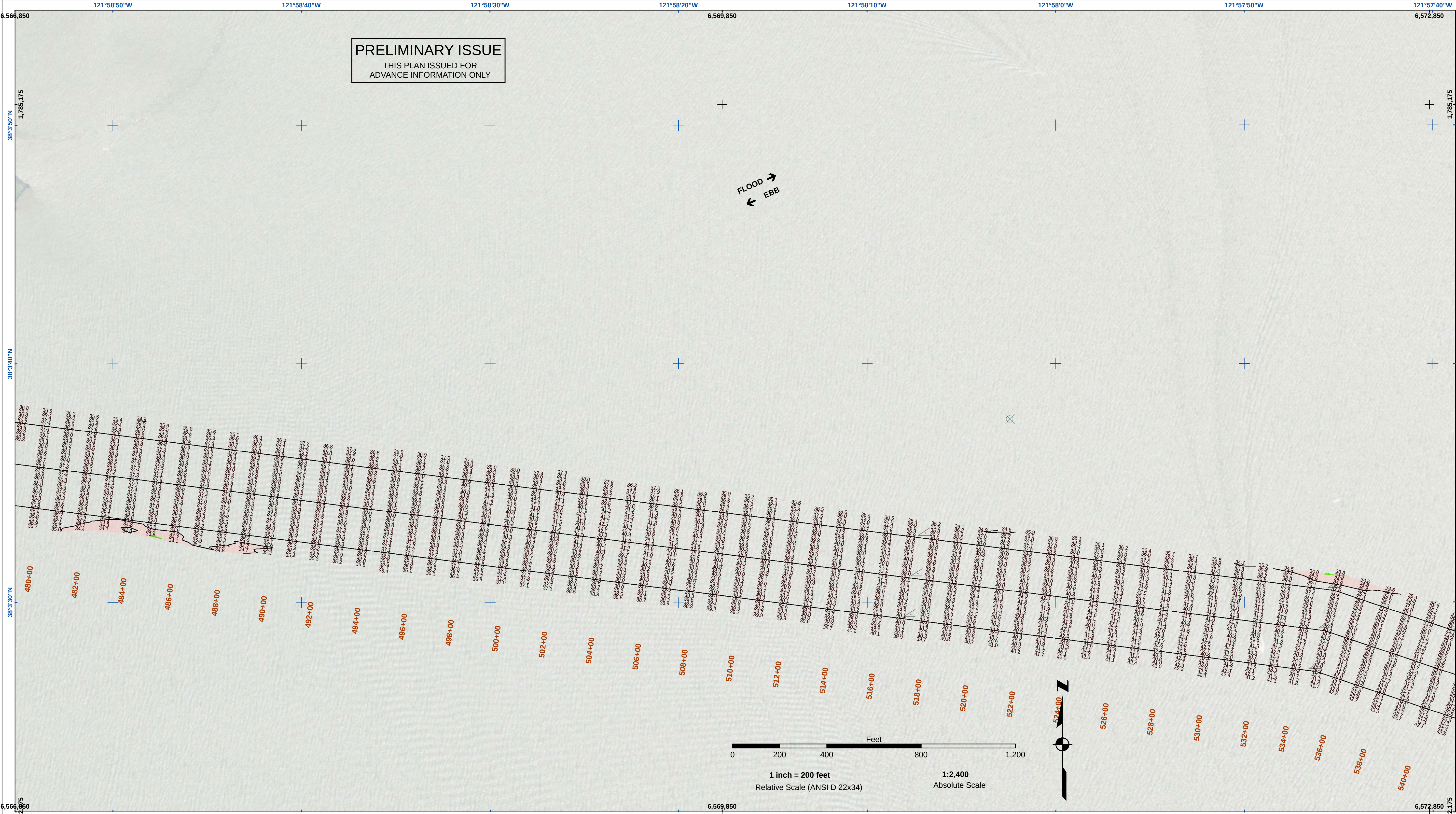
CONTRA COSTA COUNTY

CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 MAY 2019

Sheet
Reference
Number

8 of 12



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

-35

-34

-33

-32

-31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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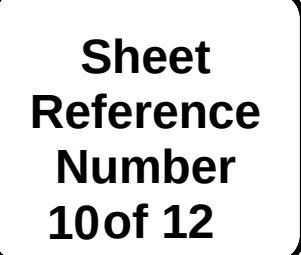
PREPARED UNDER THE DIRECTION OF LT COLONEL J. RAYFIELD	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Flotted By:	May 23, 2019
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief, Construction Branch	PDT	Drawn by:
	PDT	PDT

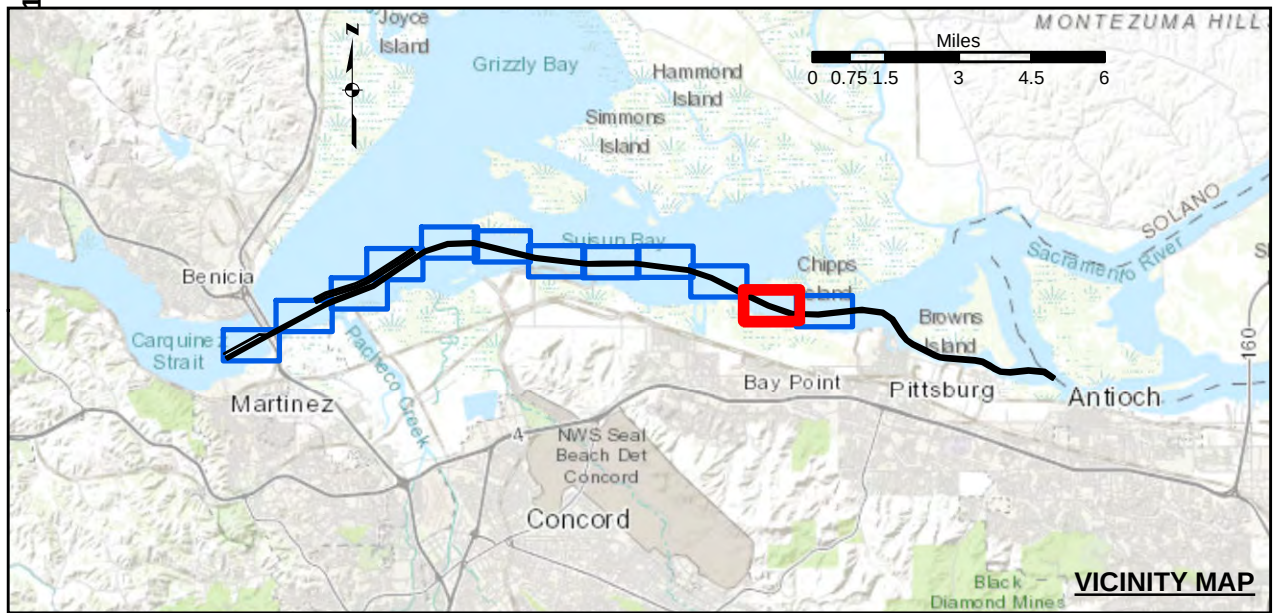
CONTRA COSTA COUNTY

CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 MAY 2019

Sheet
Reference
Number
9 of 12





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

-35

-34

-33

-32

-31

NOTES:

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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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PREPARED UNDER THE DIRECTION OF LT COLONEL J. RAYFIELD	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Flotted By:	May 23, 2019
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief Construction Branch	PDT	Drawn by:
	PDT	PDT

CONTRA COSTA COUNTY

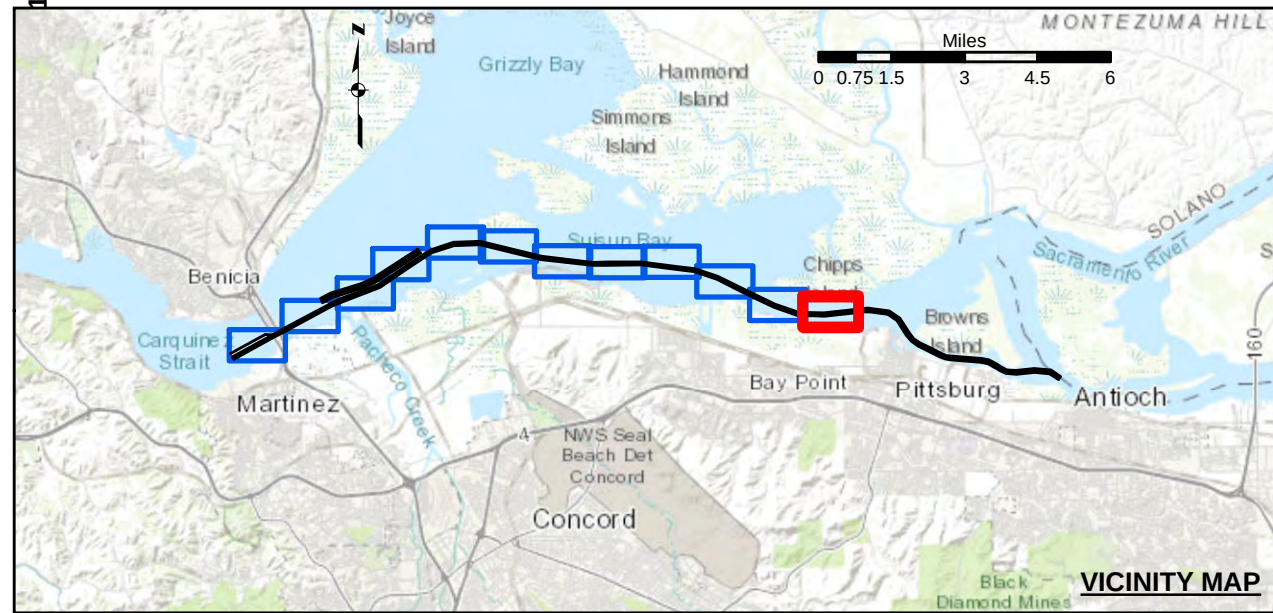
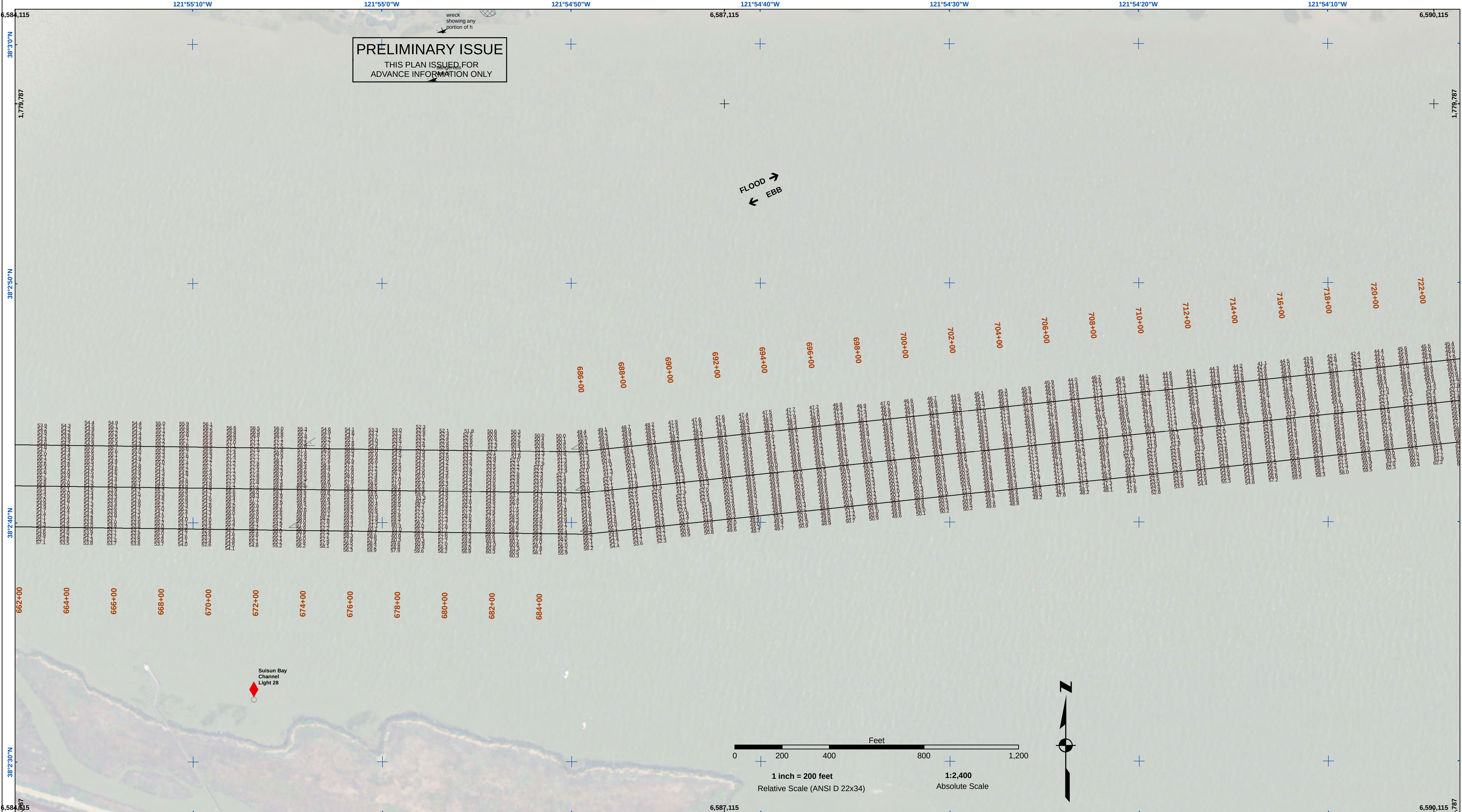
CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY

16-20 MAY 2019

Sheet
Reference
Number
11 of 12



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

-35

-34

-33

-32

-31

NOTES:

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PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY, 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.

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.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLW.
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
(LINES 500+00 TO 660+00) BENCHMARK "5144-P" (1990 RESET 1997),
USC&GS DISK, ELEV 11.83 FT MLW.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
USC&GS DISK, ELEV 21.76 FT MLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

US Army Corps of Engineers

San Francisco District

450 Golden Gate Ave

San Francisco, CA 94102

DISCLAIMER

The United States Government furnishes this information as a service to the public. It is not intended to be used for navigation or other purposes. The user is responsible for the results of any use of this information. The user is responsible for the results of any use of this information. The user is responsible for the results of any use of this information.

PREPARED UNDER THE DIRECTION OF LT COLONEL J. RAYFIELD	Chart Date: May 23, 2019
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief Construction Branch	Drawn by: PDT

CONTRA COSTA COUNTY

CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY

16-20 MAY 2019

Sheet

Reference

Number

12 of 12