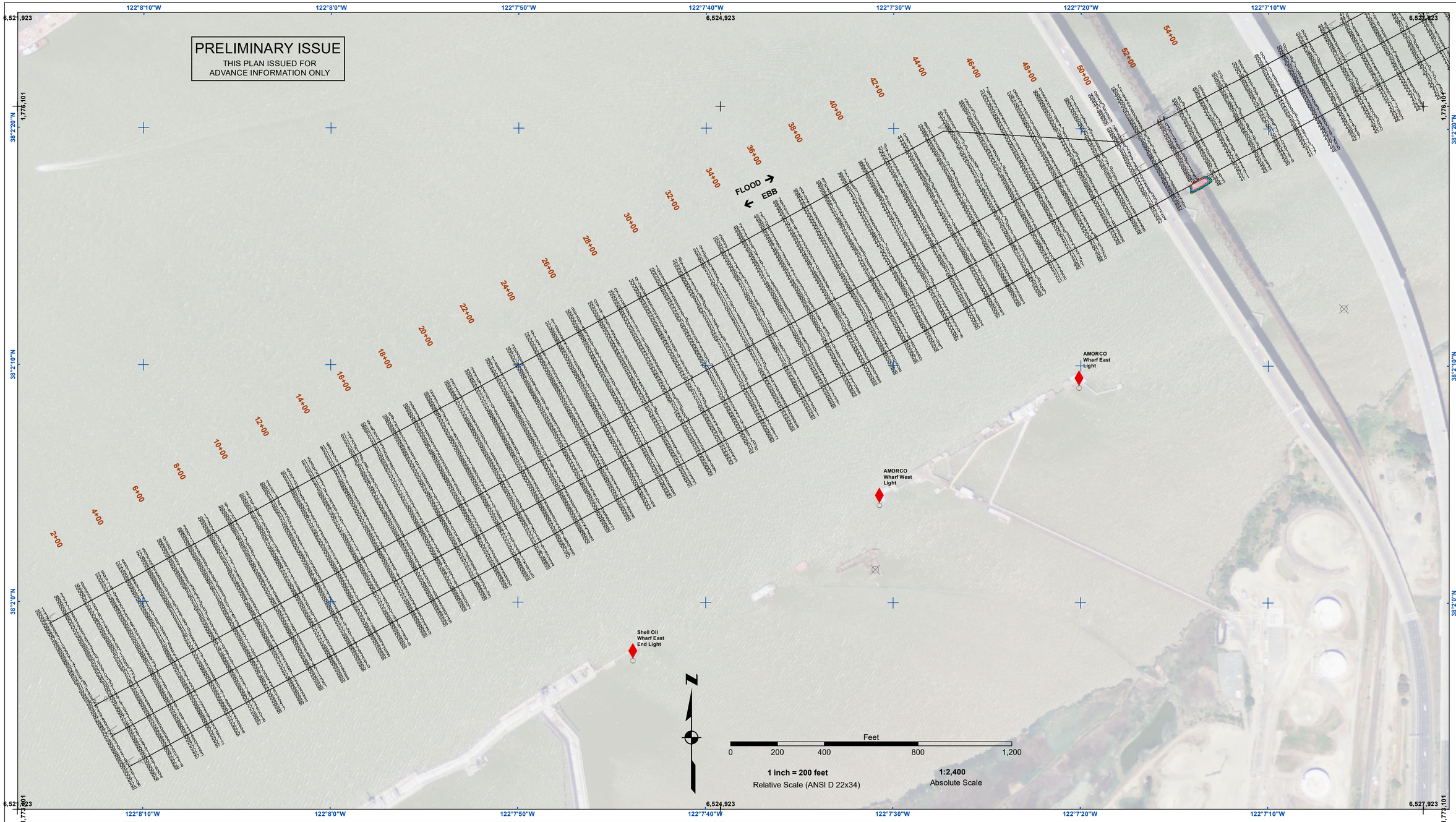

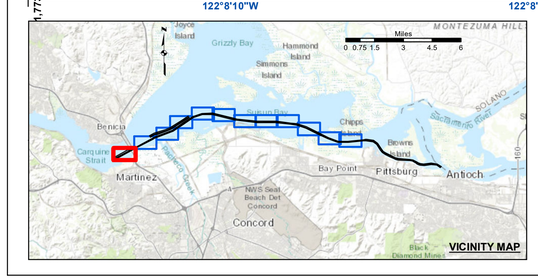

Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

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:
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.

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

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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 MLLW.;
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 MLLW.
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 MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020
Surveyed By:
Designed by:
Plotted By: PDT
Checked By: PDT
Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader

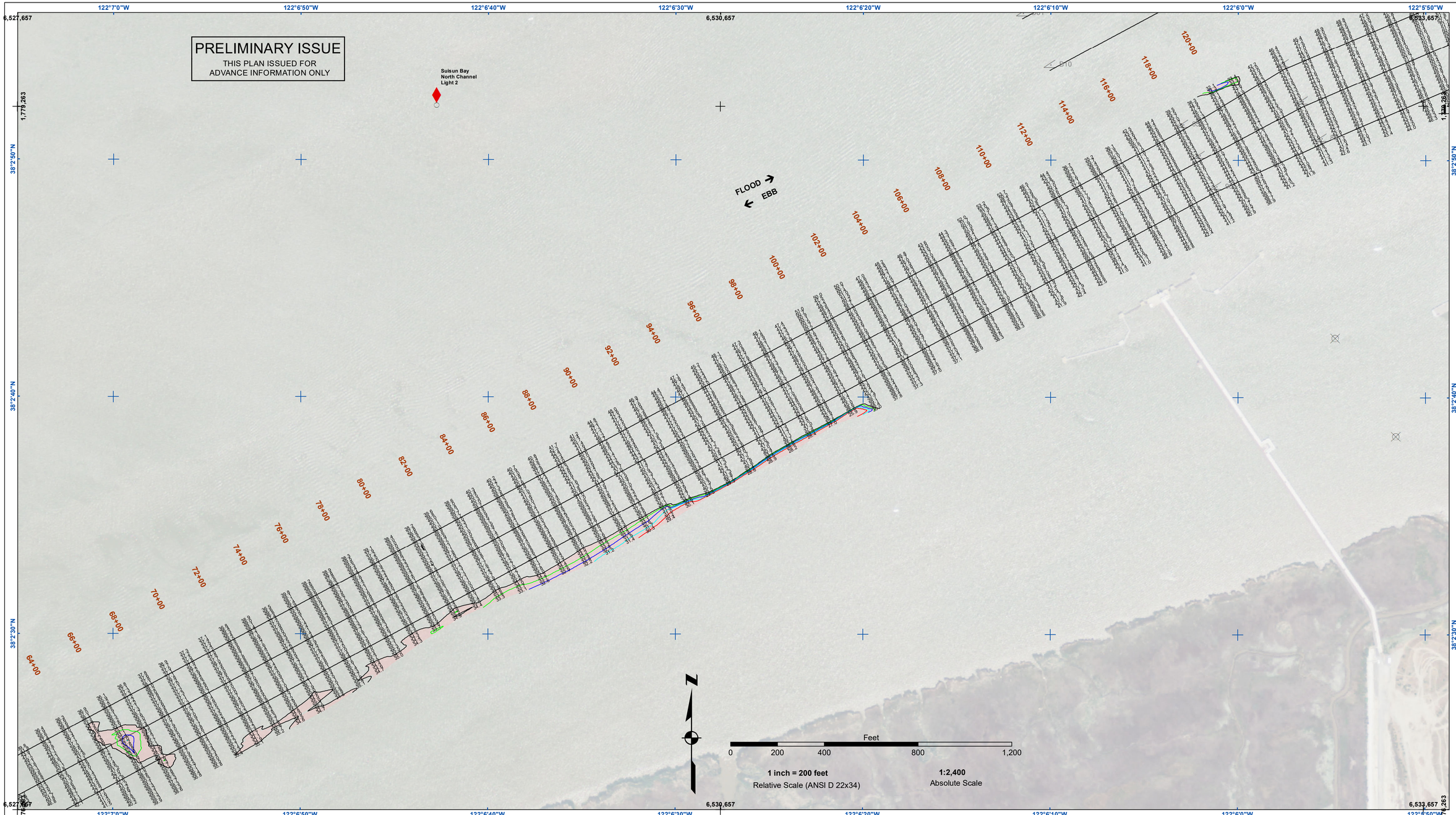
Recommended:
Chief, Hydro Survey Section

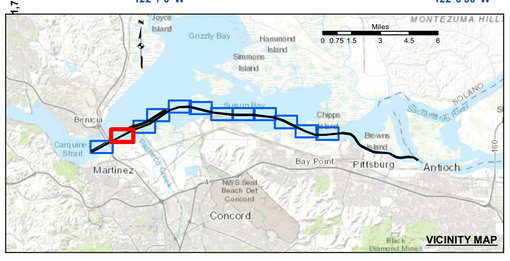
Approved:
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 1 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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BASE MAPS ARE USDA NAIP 2010.

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SURVEYED BY THE CORPS OF ENGINEERS.

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THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW.,
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 MLLW.
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 MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020
Surveyed By:
Designed by:
Plotted By: PDT
Drawn by: PDT
Checked By: PDT

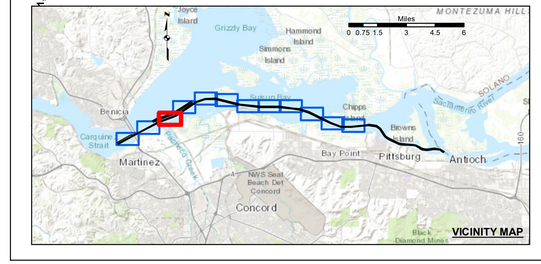
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT. COLONEL, C.E. DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 2 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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SURVEYED BY THE CORPS OF ENGINEERS.

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

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(LINES 500+00 TO 660+00) BENCHMARK "5144-P" (1990 RESET 1997),
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TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
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TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020
Surveyed By:
Designed by:
Plotted By: PDT
Checked By: PDT
Drawn by: PDT

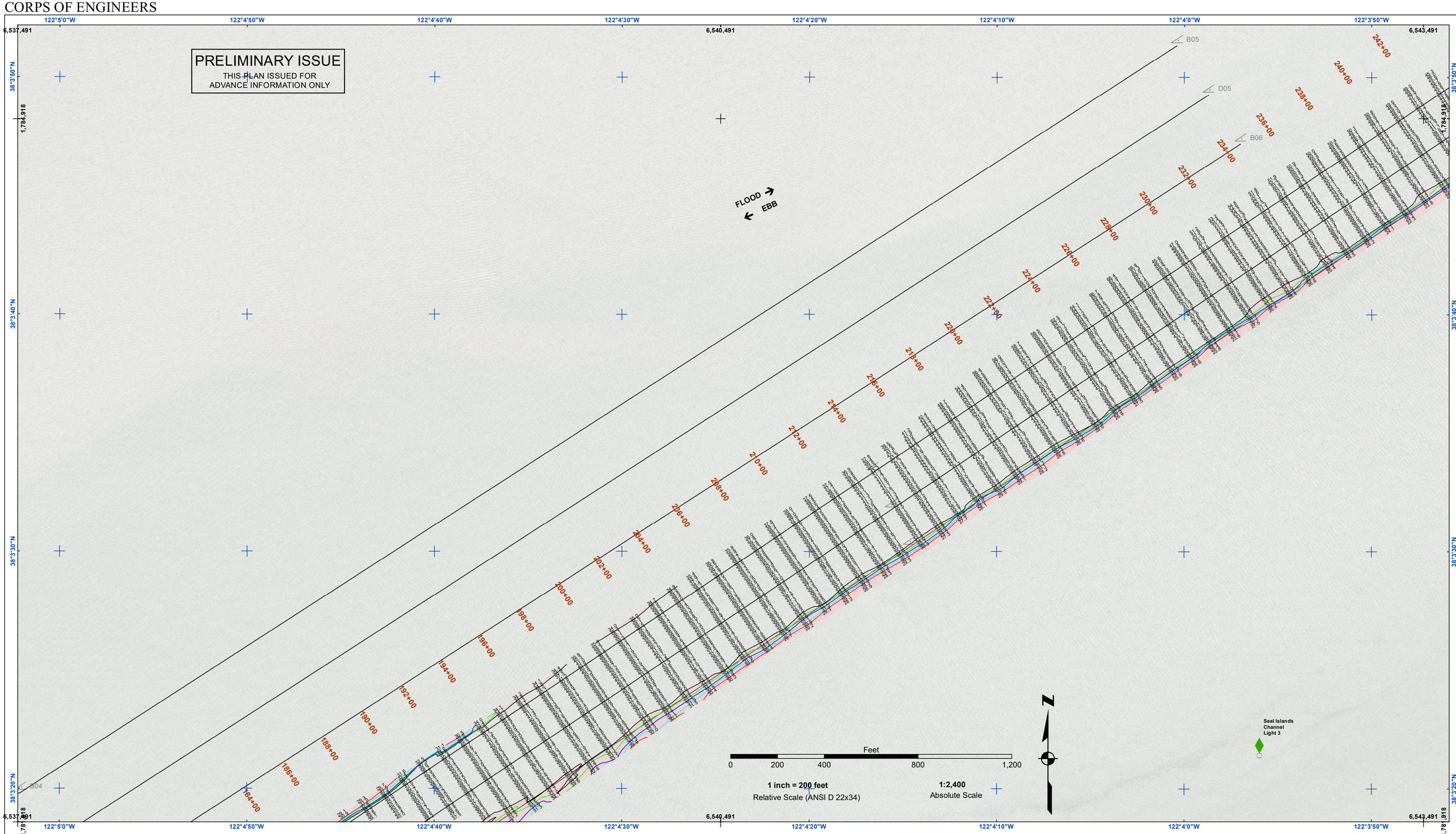
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief Hydro Survey Section
Approved: Chief Construction Branch

CALIFORNIA
CONTRA COSTA COUNTY

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 3 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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(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date:	May 14, 2020
Surveyed By:	
Designed by:	
Plotted By:	PDT
Drawn by:	PDT
Checked By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted: _____
Hydro Survey Team Leader

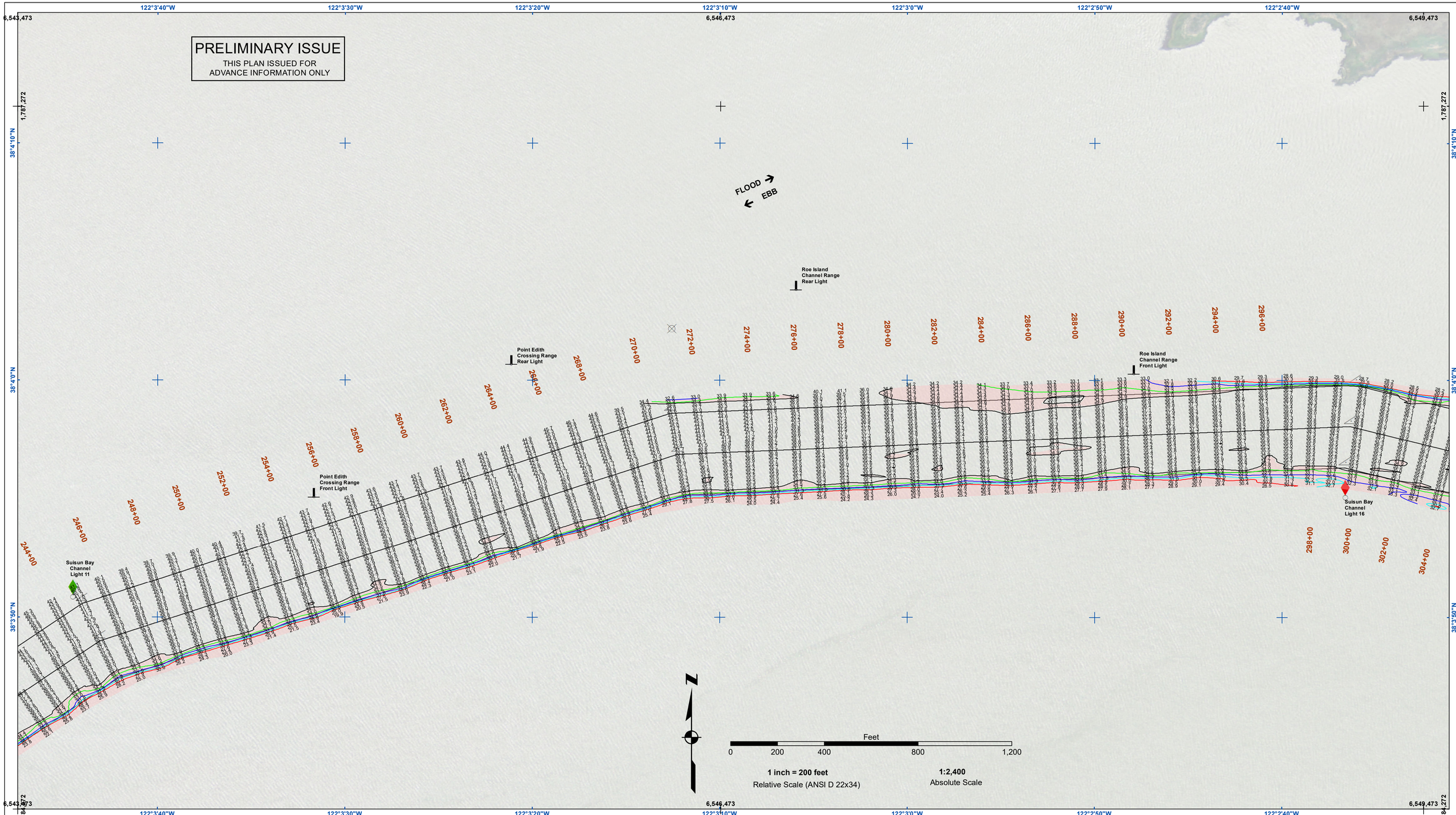
Recommended: _____
Chief, Hydro Survey Section

Approved: _____
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 4 of 12



Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

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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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020

Surveyed By:	Plotted By: PDT	Designed by:
	Checked By: PDT	Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted: _____
Hydro Survey Team Leader

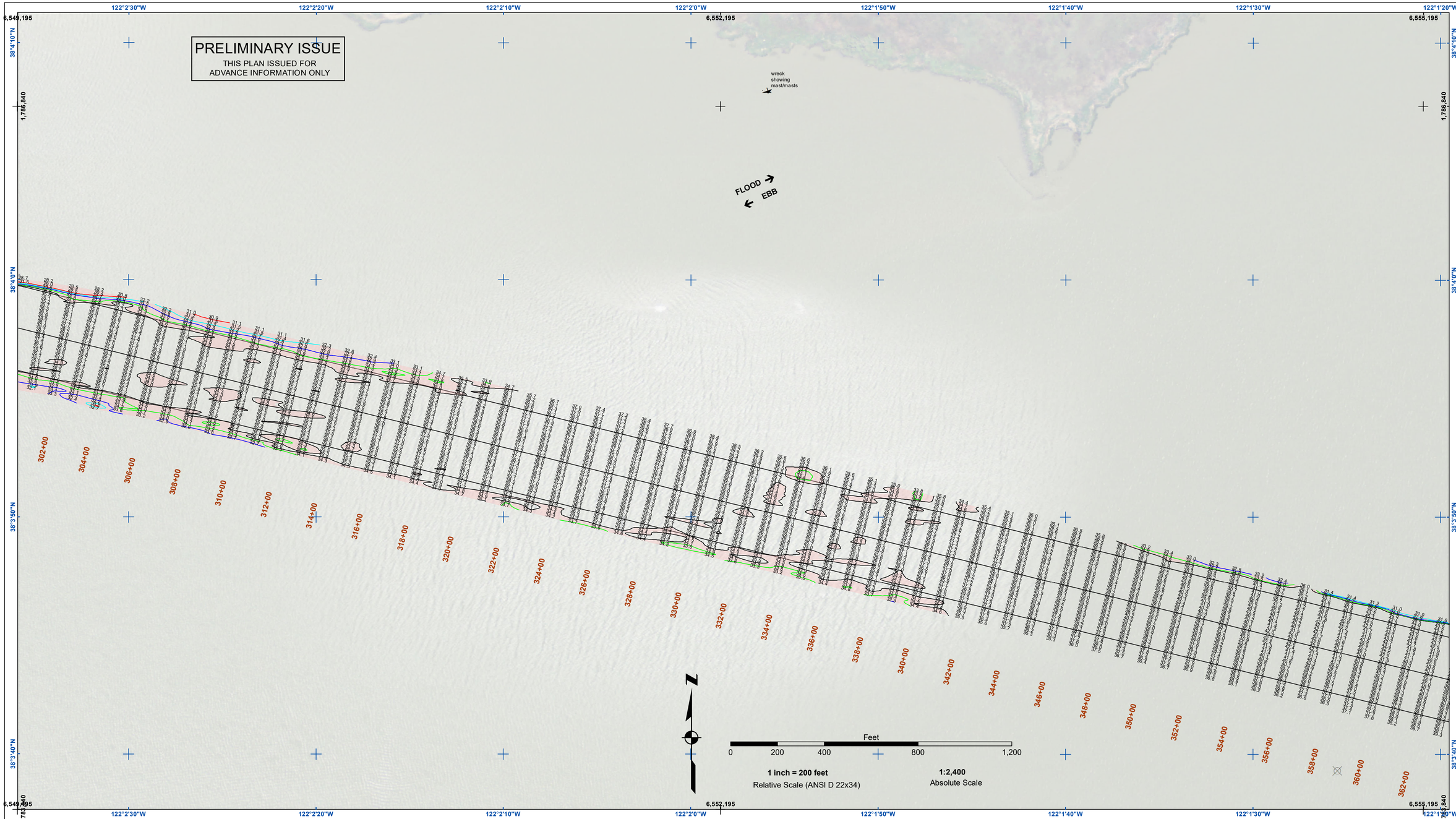
Recommended: _____
Chief, Hydro Survey Section

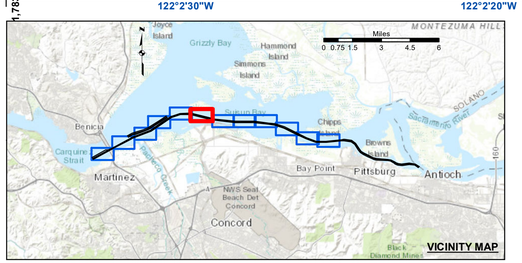
Approved: _____
Chief, Construction Branch

CALIFORNIA
CONTRA COSTA COUNTY

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 5 of 12





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
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Angle Point		

NOTES:

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Chart Date: May 14, 2020	
Surveyed By:	Designed by:
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

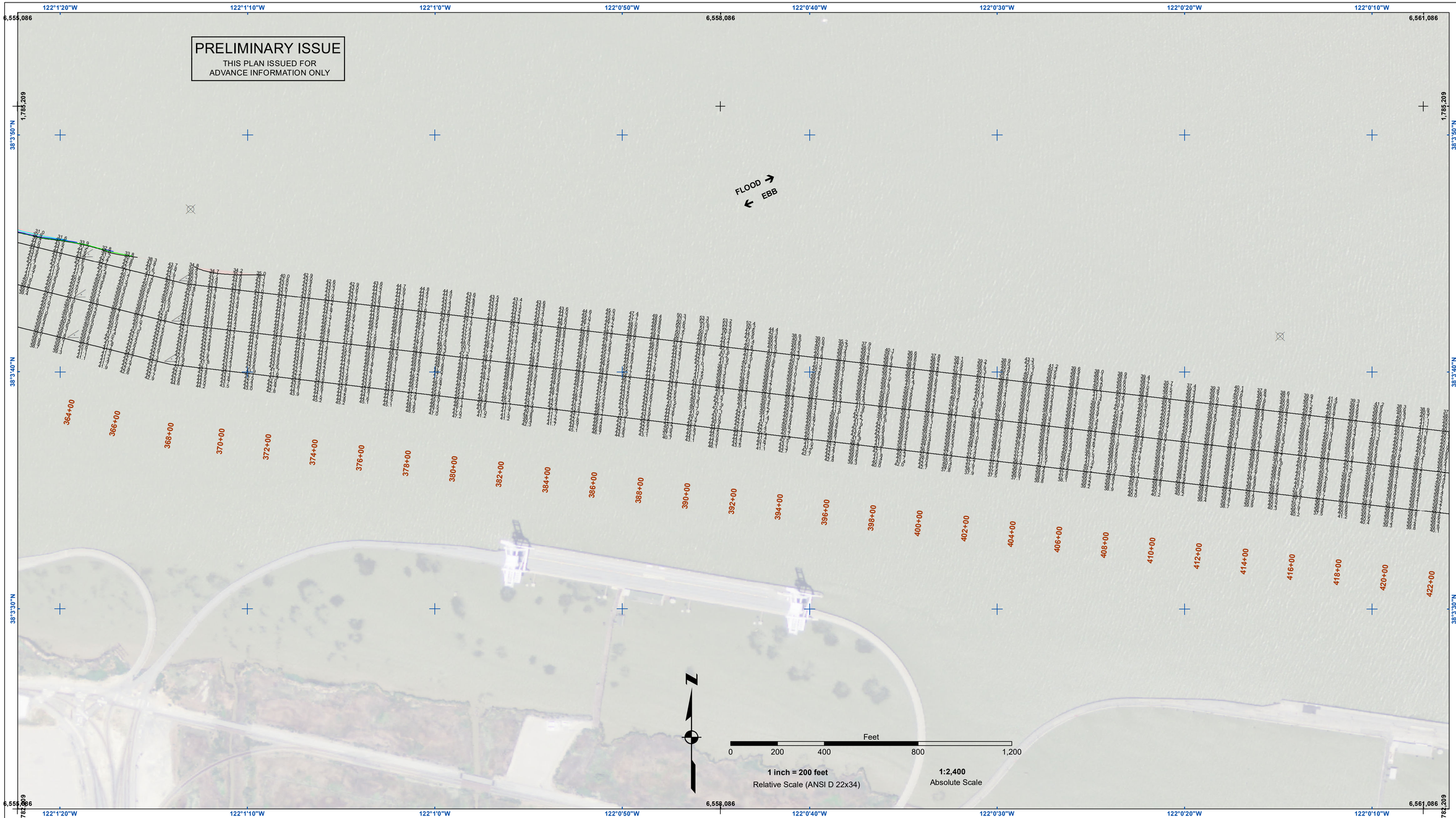
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

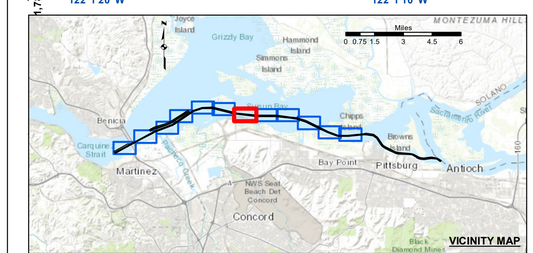
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 6 of 12





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

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:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

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BASE MAPS ARE USDA NAIP 2010.

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THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

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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 MLLW,
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),
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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 MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020	
Surveyed By:	Designed by:
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

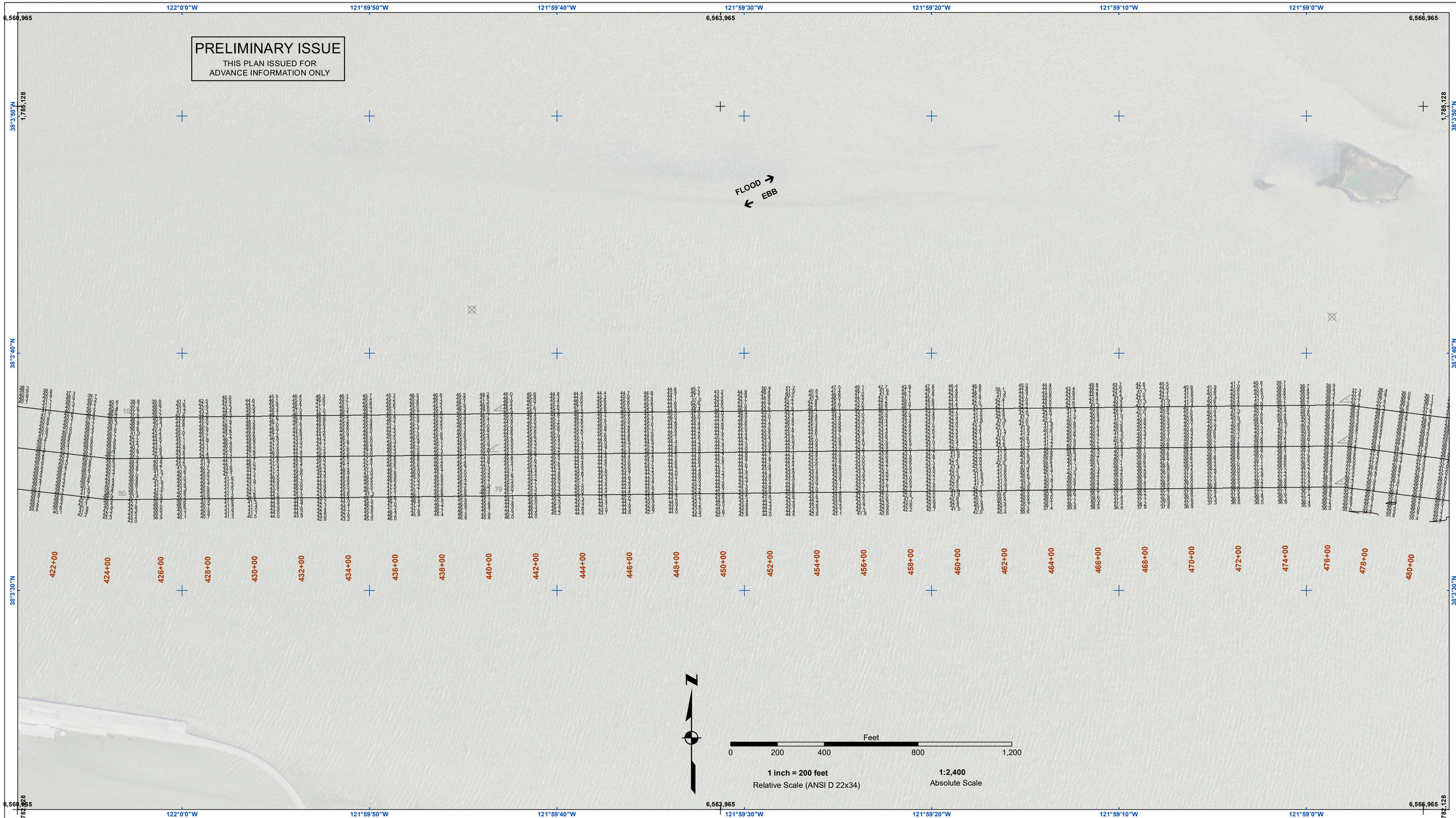
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

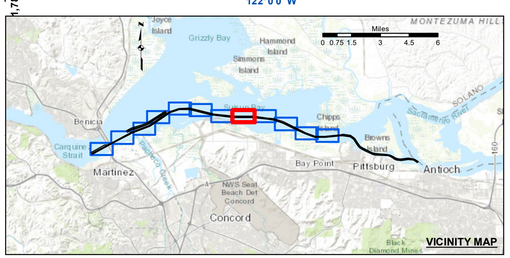
Submitted: _____
Hydro Survey Team Leader
Recommended: _____
Chief, Hydro Survey Section
Approved: _____
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 7 of 12





Federal Navigation Channel	Beacon, General
Shoaling Area	Obstruction Point
Placement Area	Navigation Buoy
Anchorage Area	Navigation Buoy
Wreck Area	Shoalest Sounding*
Submerged Wreck	
Angle Point	

Contours

-35
-34
-33
-32
-31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
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THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW.;
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: May 14, 2020

Surveyed By:	Plotted By: PDT	Checked By: PDT
	Designed by:	Drawn by: PDT

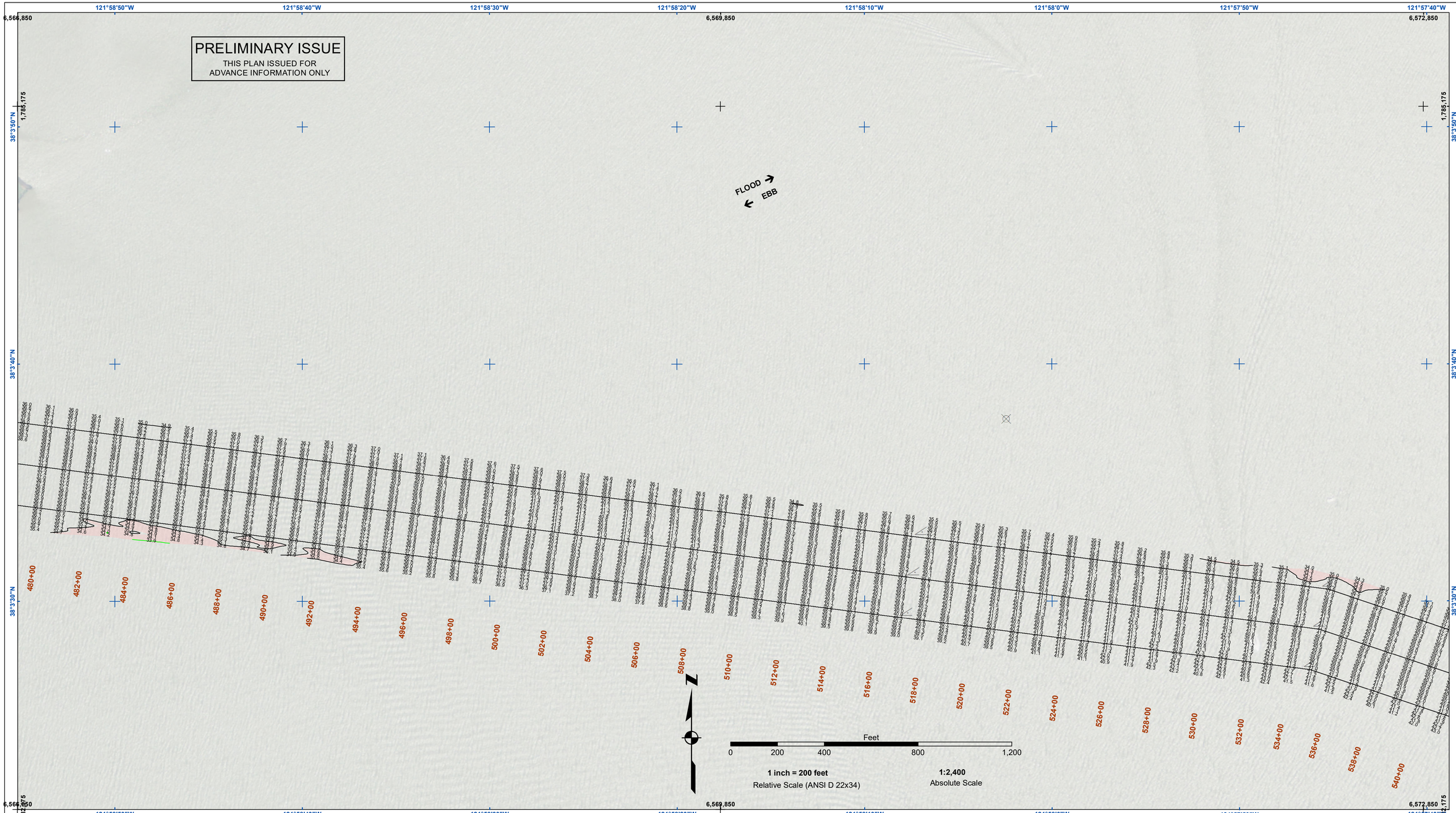
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

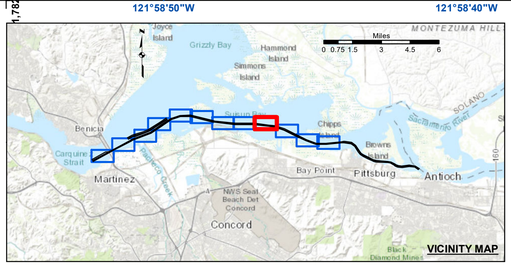
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
CONTRA COSTA COUNTY

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

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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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW.,
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Chart Date: May 14, 2020
Designed by:
Drawn by: PDT

Surveyed By:
Plotted By: PDT
Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader

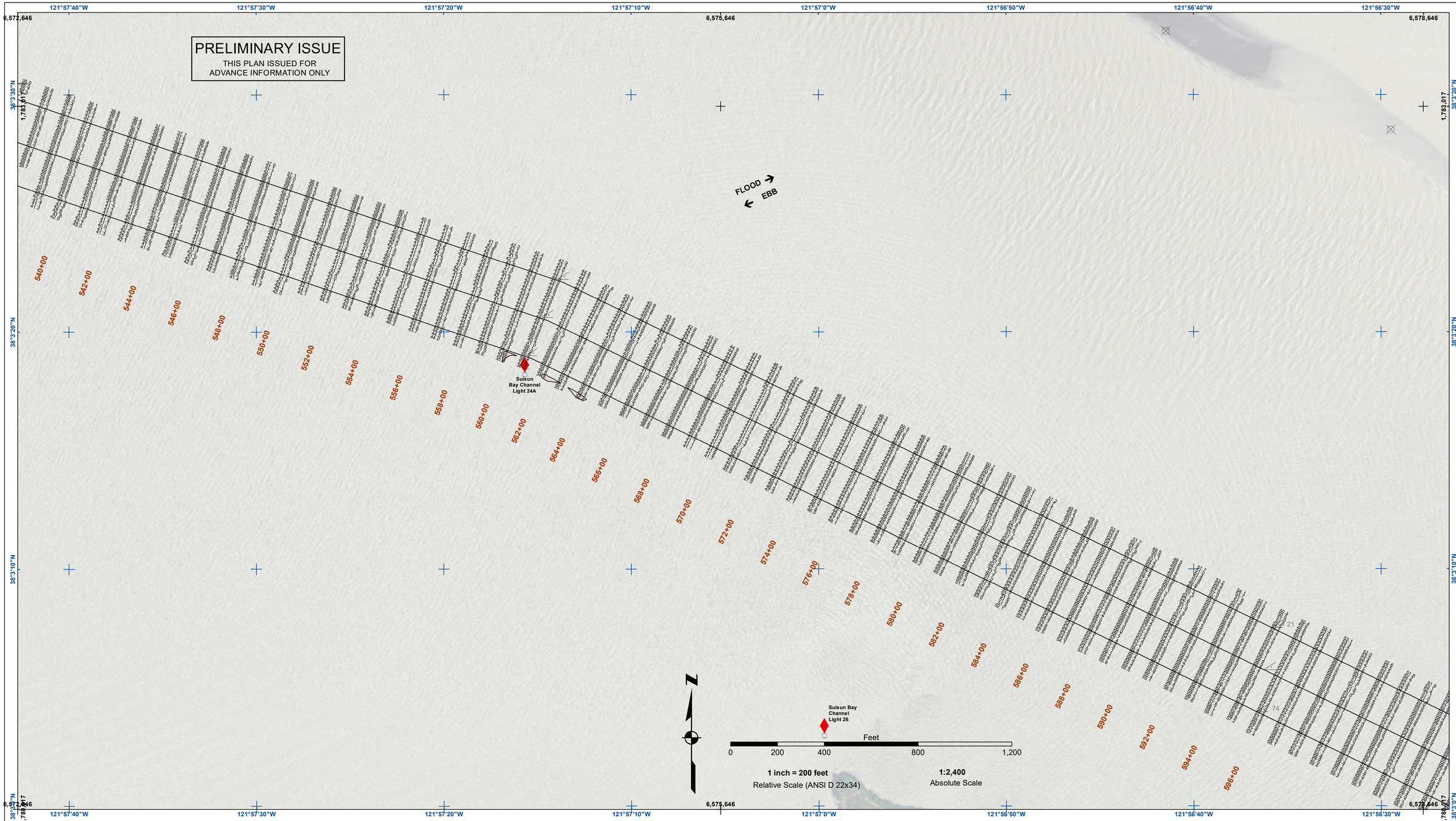
Recommended:
Chief, Hydro Survey Section

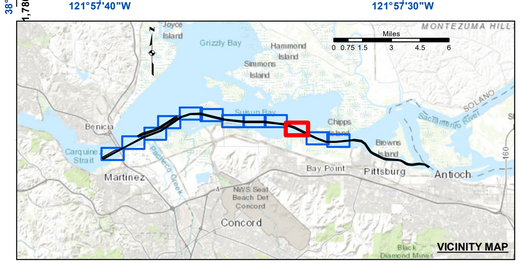
Approved:
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 9 of 12





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

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Chart Date: May 14, 2020
Surveyed By:
Plotted By: PDT
Designed By:
Checked By: PDT
Drawn By: PDT

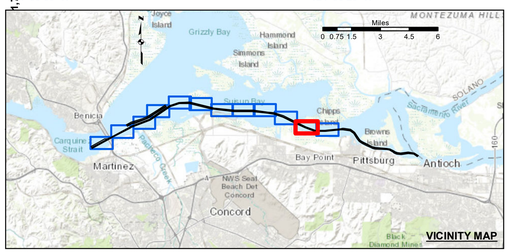
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 10 of 12



Federal Navigation Channel	Beacon, General	**Contours**
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Angle Point		

NOTES:

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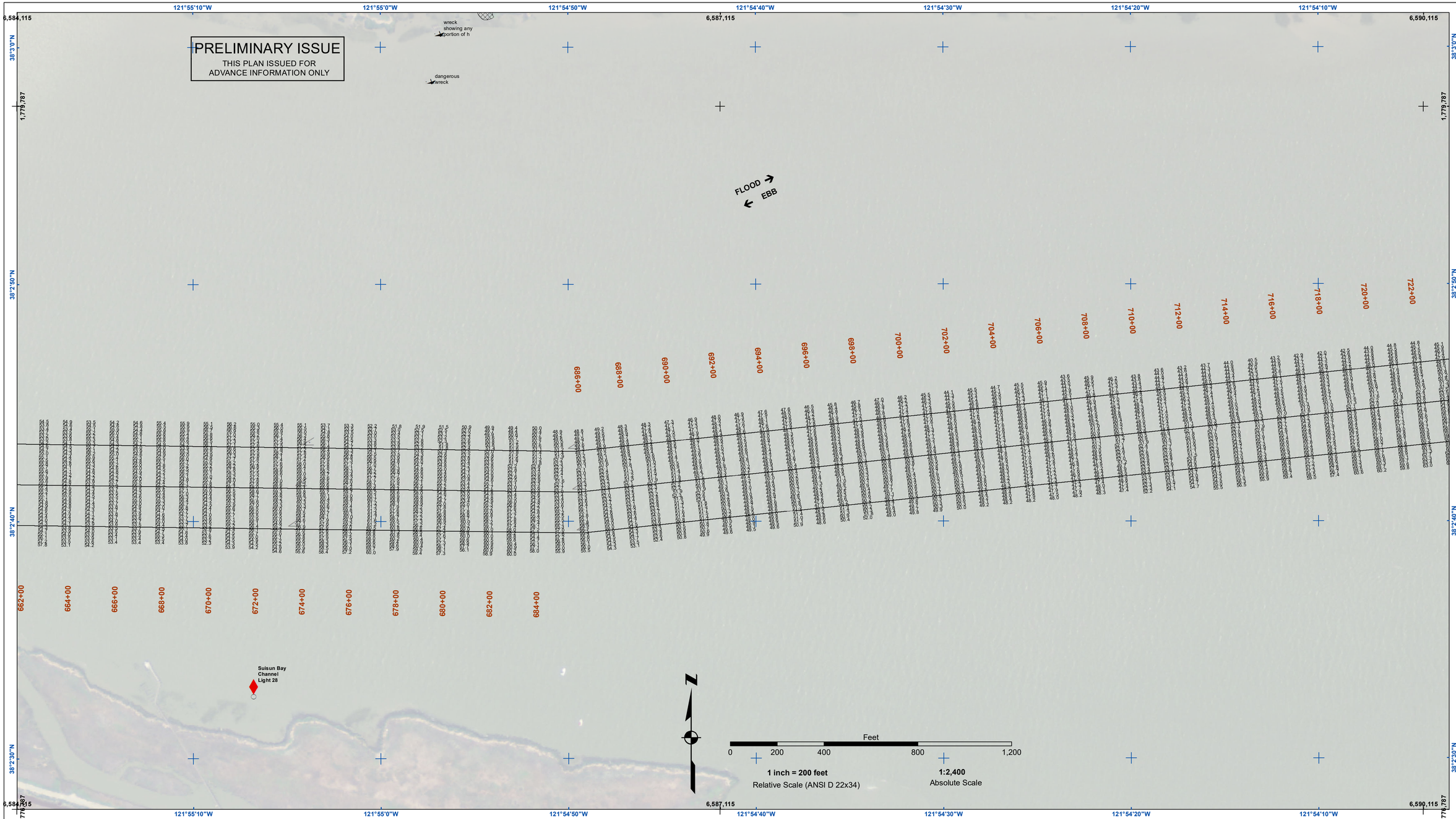
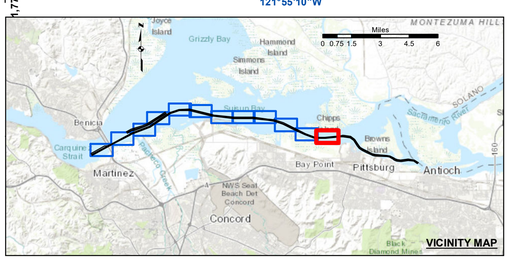
PREPARED UNDER THE DIRECTION OF JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By:	Plotted By: PDT	Checked By: PDT
Submitted: Hydro Survey Team Leader	Chart Date: May 14, 2020	Designed by:	Drawn by: PDT
Recommended: Chief, Hydro Survey Section			
Approved: Chief, Construction Branch			

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

Sheet Reference Number 11 of 12





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Submerged Wreck		-31
Angle Point		

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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 MLLW.,
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 MLLW.
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 MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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

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Chart Date: May 14, 2020
Surveyed By:
Designed by:
Plotted By: PDT
Drawn by: PDT
Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
5-7 MAY 2020

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