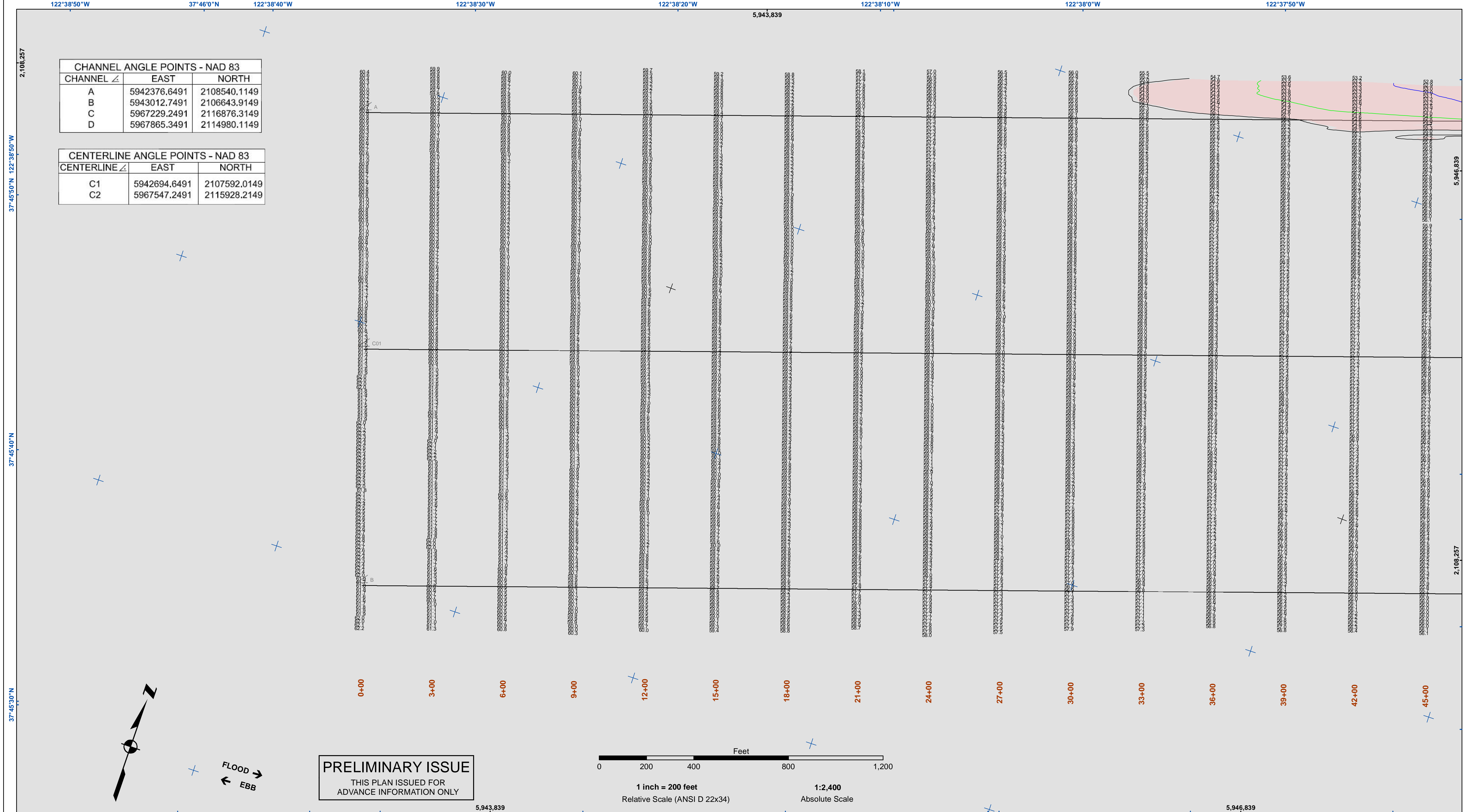




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 San Francisco District
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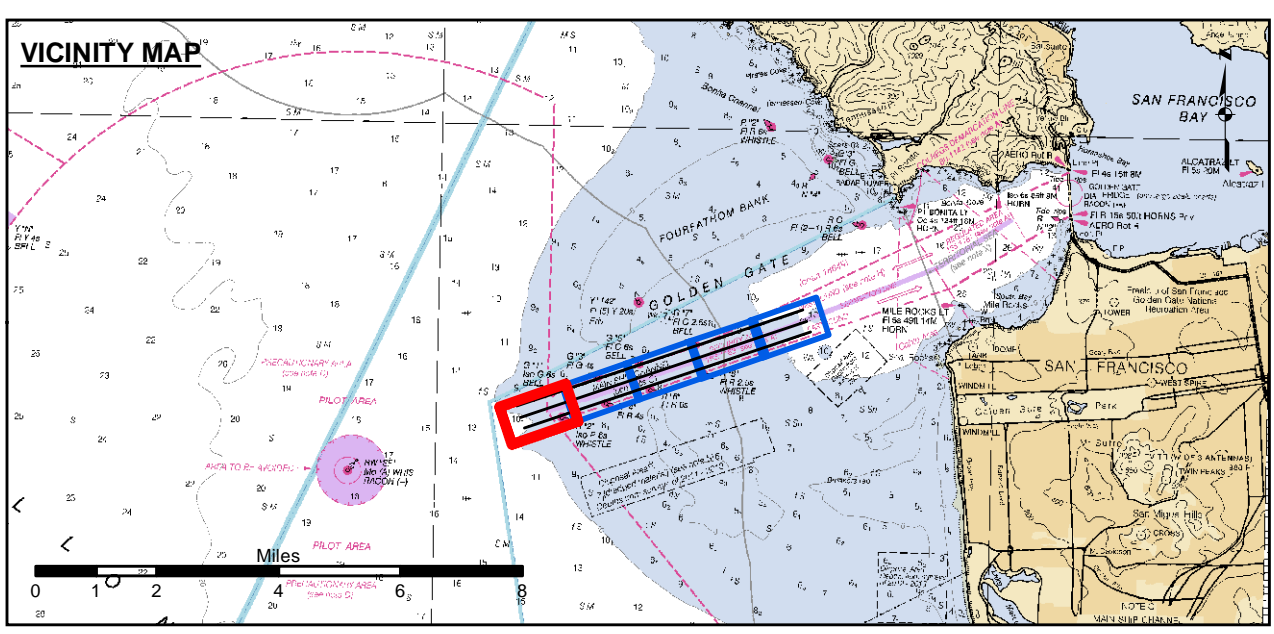
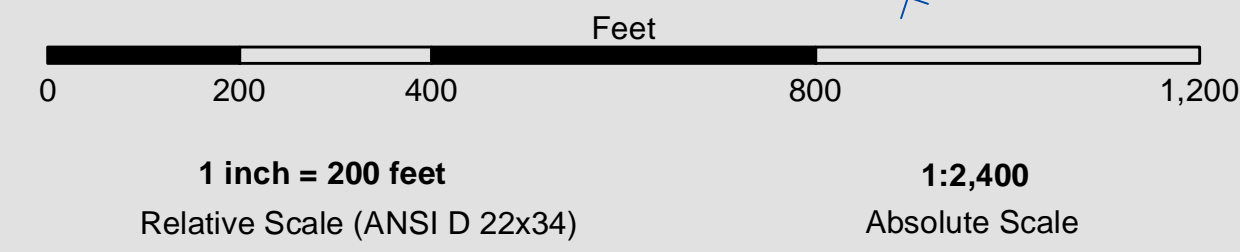
CHANNEL ANGLE POINTS - NAD 83

CHANNEL	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

CENTERLINE ANGLE POINTS - NAD 83

CENTERLINE	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149

PRELIMINARY ISSUE
 THIS PLAN ISSUED FOR
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- 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*
- Contour Lines**
- 55
- 54
- 53
- 52
- 51

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:
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*SHOALEST SOUNDING PER QUARTER PER REACH

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THE PROJECT DEPTH IS 55 FEET AT M.L.L.W. SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.

VERTICAL CONTROL:
 BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.

HORIZONTAL CONTROL:
 COAST GUARD D-BEACON.

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

Submittal:	Hydro Survey Team Leader	Plotted By:	PDT	Chart Date:	Jun 18, 2020
Recommended:	Chief, Hydro Survey Section	Checked By:	PDT	Designed by:	
Approved:	Chief, Construction Branch	Drawn by:	PDT		

CALIFORNIA
 SAN FRANCISCO BAY
SAN FRANCISCO MAINSHIP CHANNEL
 CONDITION SURVEY
 14-15 JUNE 2020

Sheet Reference Number
 1 of 5

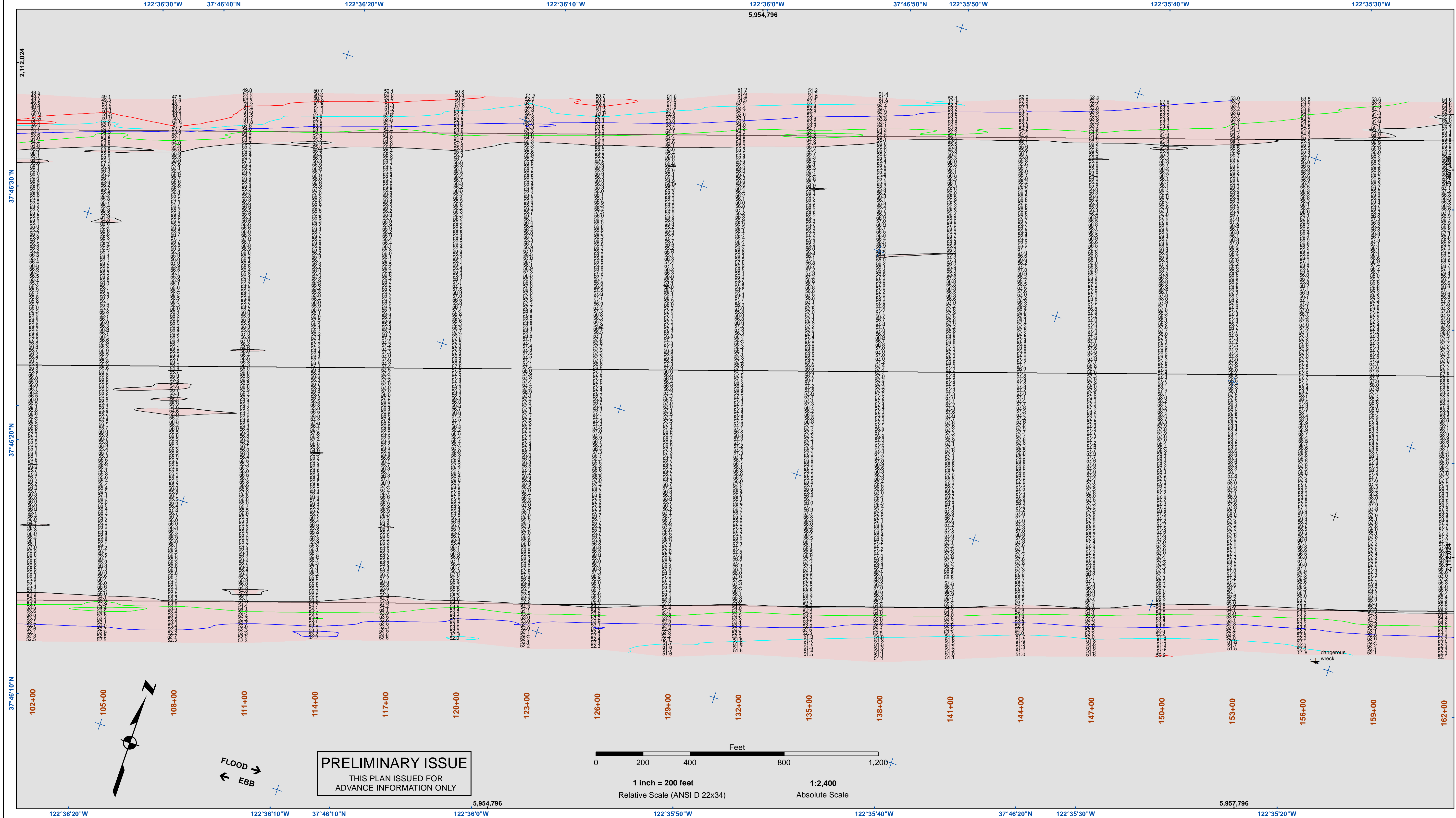


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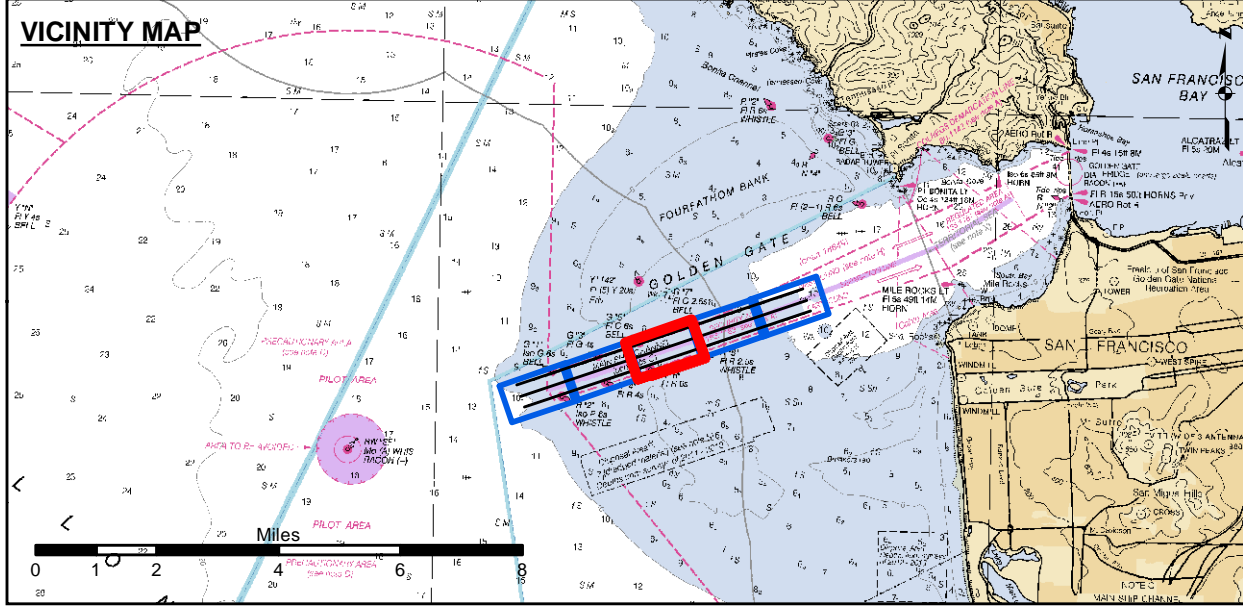
Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jun 18, 2020
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA
SAN FRANCISCO MAINSHIP CHANNEL
 CONDITION SURVEY
 14-15 JUNE 2020

Sheet Reference Number
 3 of 5



PRELIMINARY ISSUE
 THIS PLAN ISSUED FOR
 ADVANCE INFORMATION ONLY



Federal Navigation Channel	Beacon, General	Contour Lines	55
Shoaling Area	Obstruction Point		54
Placement Area	Navigation Buoy		53
Anchorage Area	Navigation Buoy		52
Wreck Area	Shoalest Sounding*		51
Submerged Wreck			
Angle Point			

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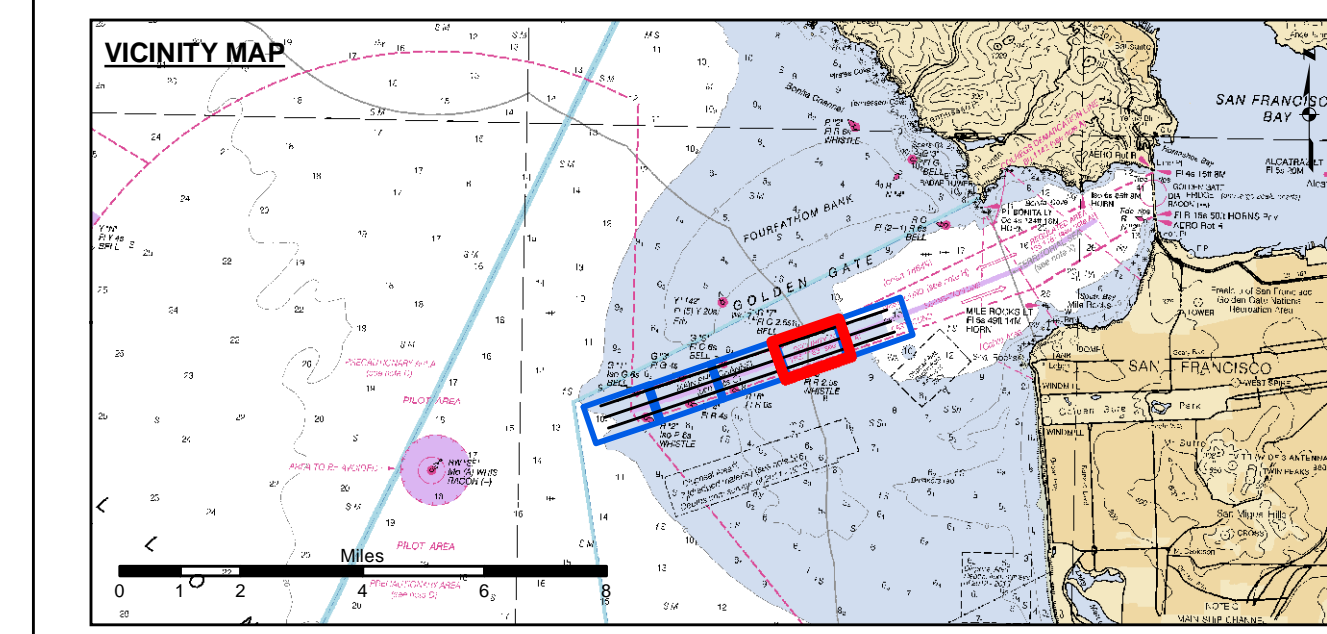
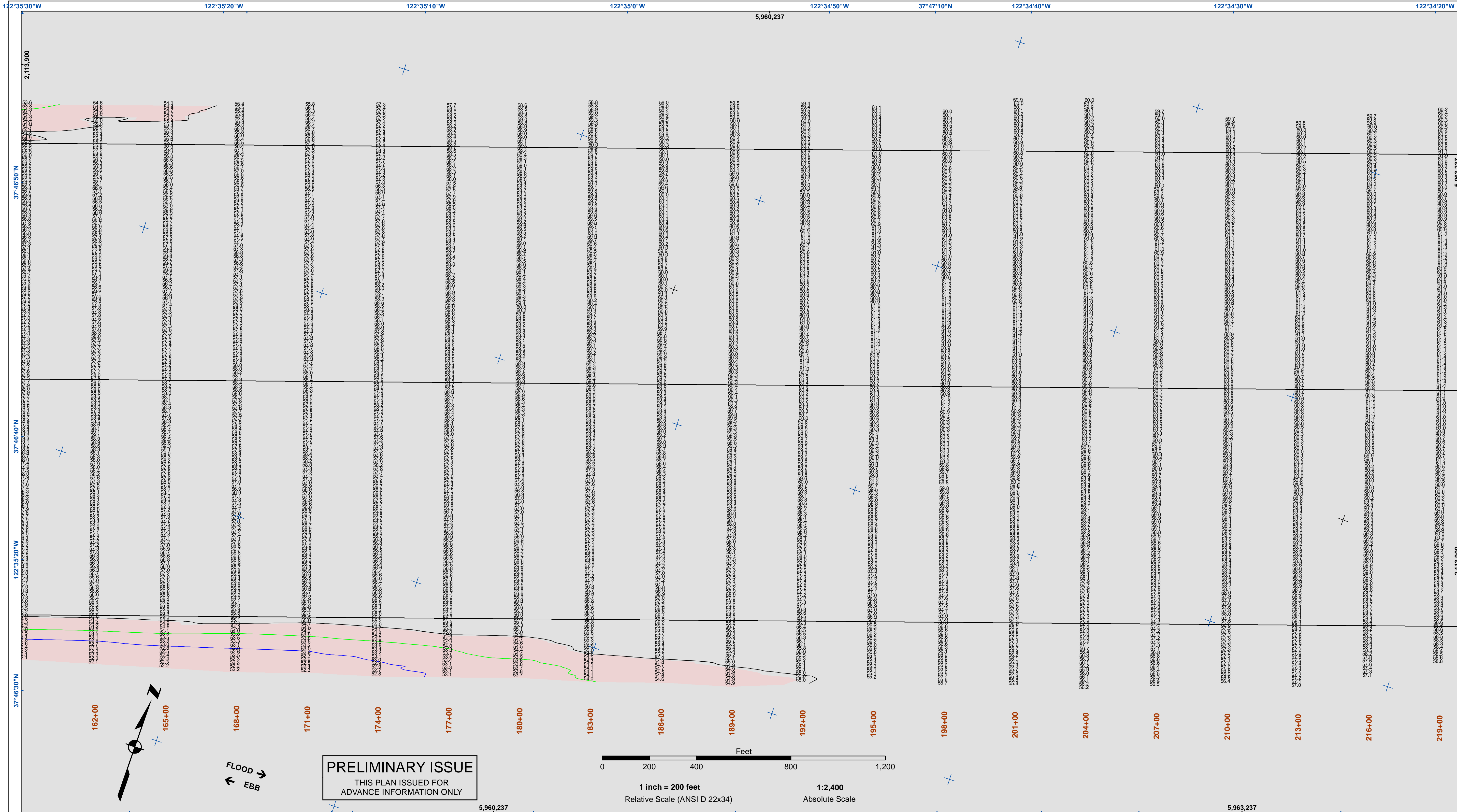
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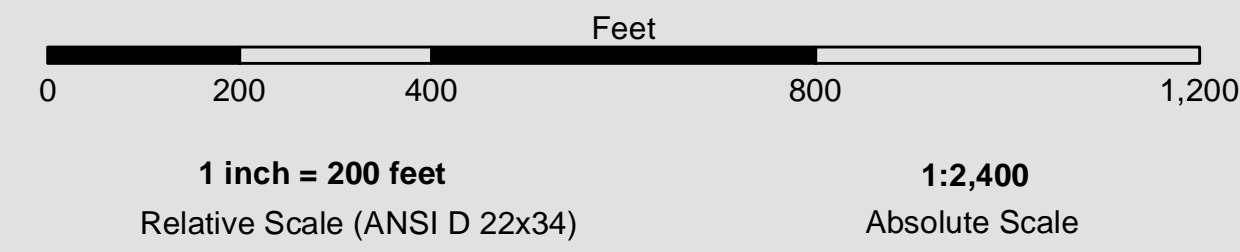
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VERTICAL CONTROL:
 BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.

HORIZONTAL CONTROL:
 COAST GUARD D-BEACON.



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
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- | | | | | | |
|--|----------------------------|--|--------------------|--|---------------|
| | Federal Navigation Channel | | Beacon, General | | Contour Lines |
| | Shoaling Area | | Obstruction Point | | 55 |
| | Placement Area | | Navigation Buoy | | 54 |
| | Anchorage Area | | Navigation Buoy | | 53 |
| | Wreck Area | | Shoalest Sounding* | | 52 |
| | Submerged Wreck | | | | 51 |
| | Angle Point | | | | |

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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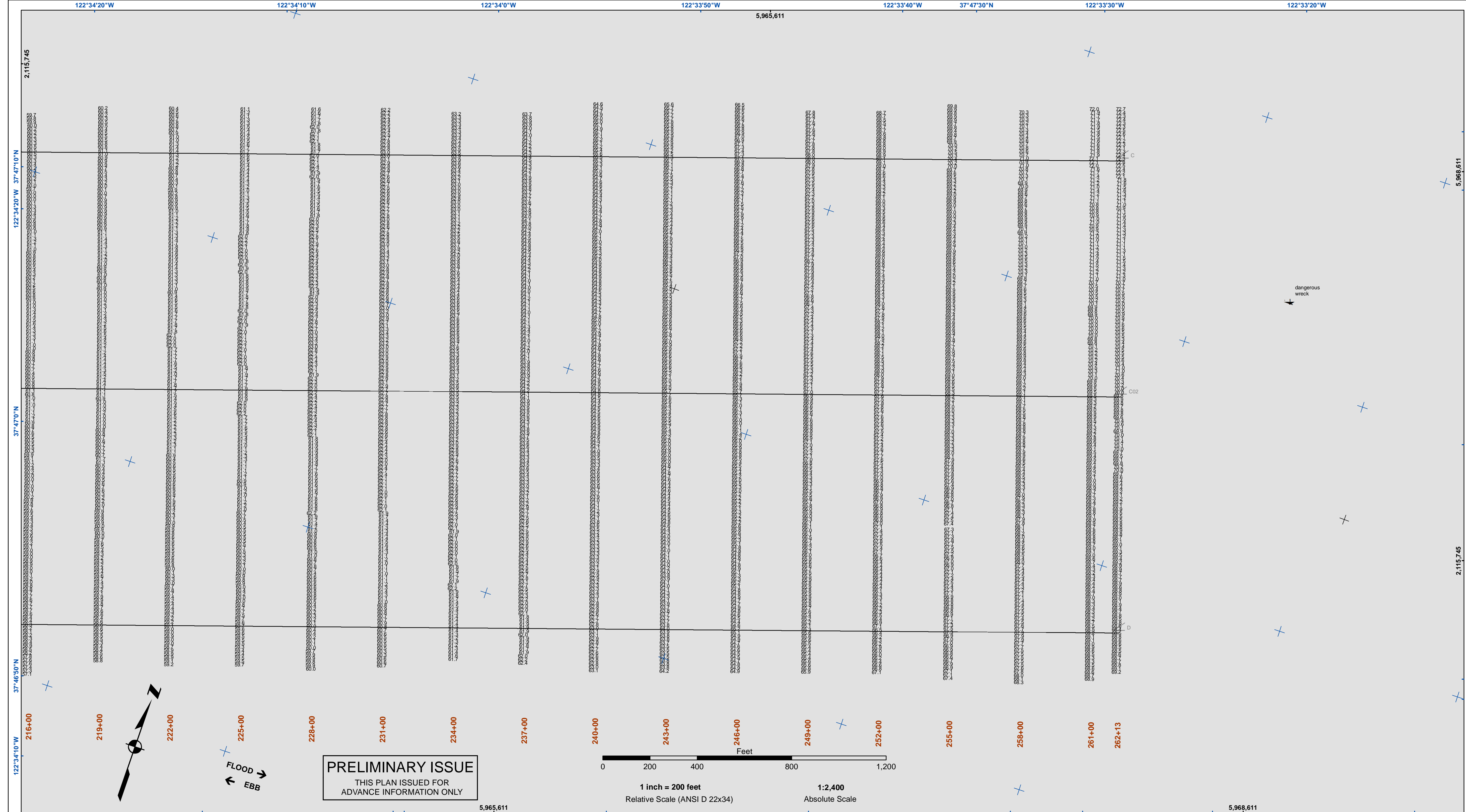
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Jun 18, 2020
Submitted by: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved by: Chief, Construction Branch		

CALIFORNIA
SAN FRANCISCO BAY
SAN FRANCISCO MAINSHIP CHANNEL
CONDITION SURVEY
14-15 JUNE 2020

Sheet Reference Number
4 of 5

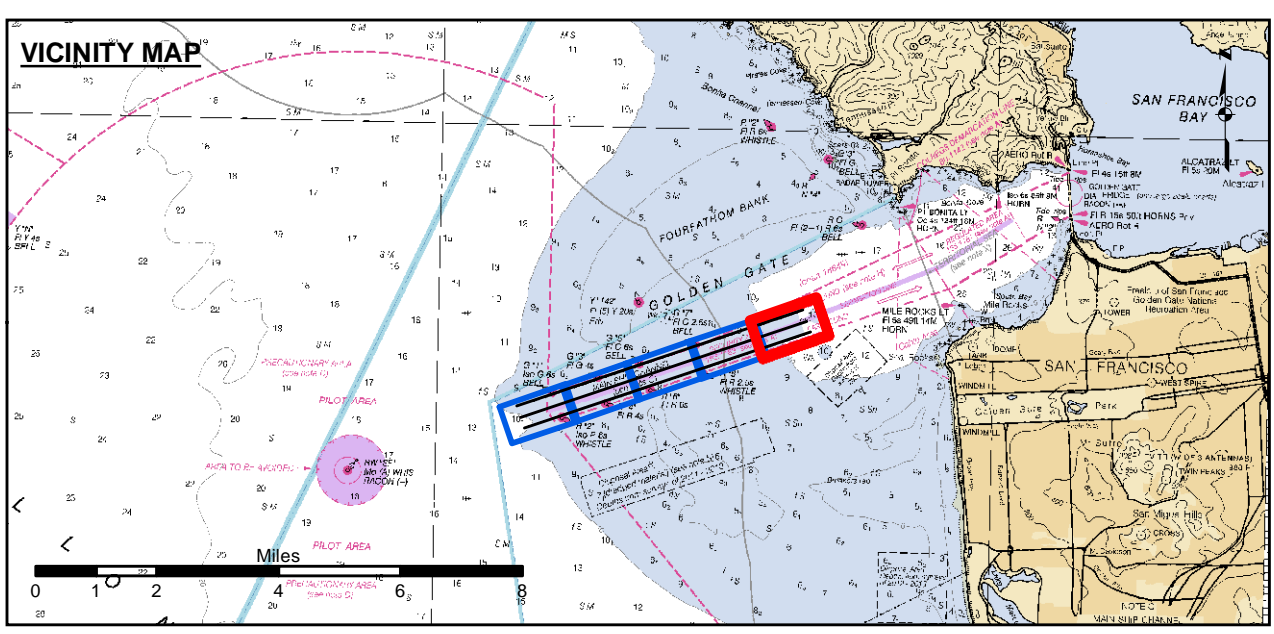


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E., District Engineer	Chart Date: Jun 18, 2020
Subject: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA
SAN FRANCISCO
MAINSHIP CHANNEL
CONDITION SURVEY
 14-15 JUNE 2020



	Federal Navigation Channel		Beacon, General		Contour Lines
	Shoaling Area		Obstruction Point		55
	Placement Area		Navigation Buoy		54
	Anchorage Area		Navigation Buoy		53
	Wreck Area		Shoalest Sounding*		52
	Submerged Wreck				51
	Angle Point				

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5 of 5