

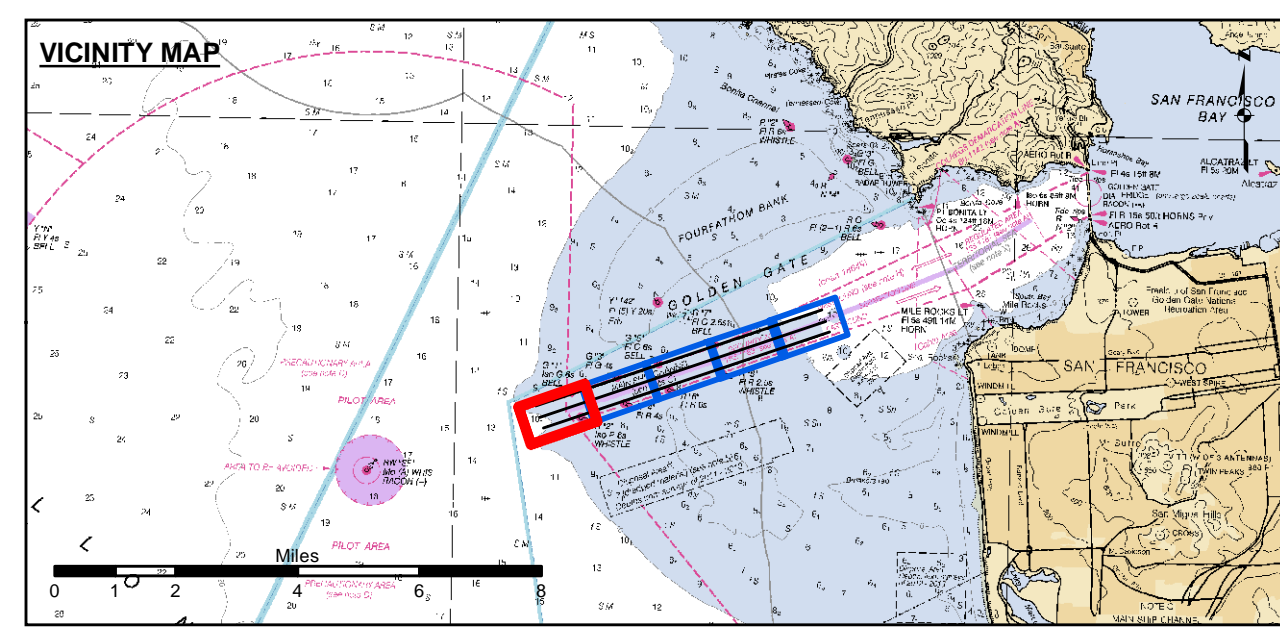
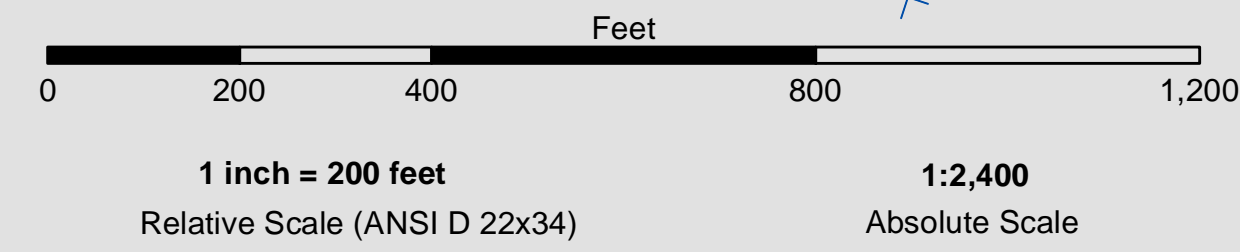
**CHANNEL ANGLE POINTS - NAD 83**

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  
ADVANCE INFORMATION ONLY



- 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**
- 51
  - 52
  - 53
  - 54
  - 55

**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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VERTICAL CONTROL:  
BENCHMARK "Q-481" US&GS DISK ELEV. 19.54 FT MLLW.  
HORIZONTAL CONTROL:  
COAST GUARD D-BEACON.



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

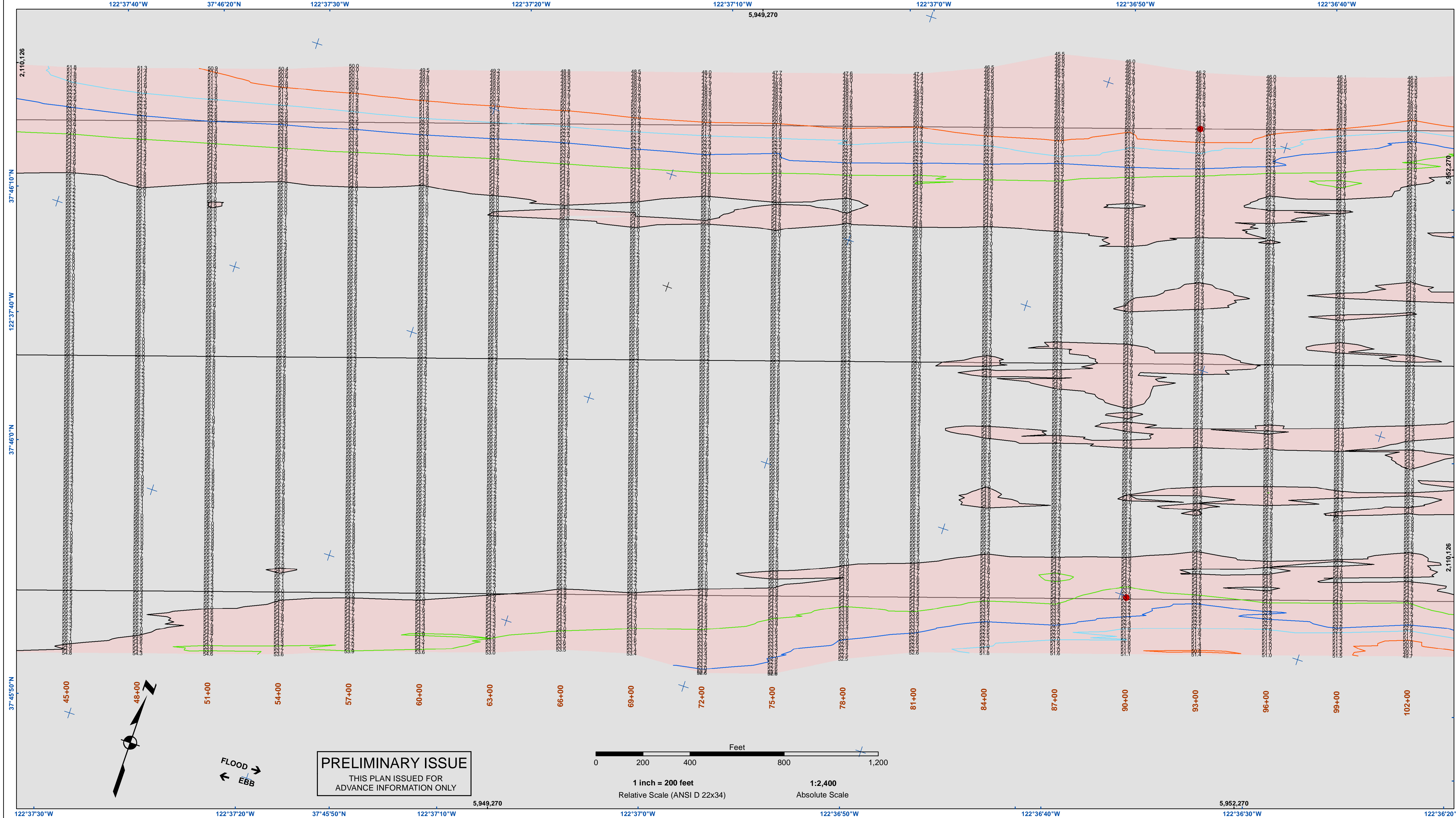
Surveys By:	Plotted By:	Chart Date:
Hydro Survey Team Leader	PDT	Aug 03, 2021
Chief, Hydro Survey Section	Checked By:	Designed by:
Chief, Construction Branch	PDT	PDT
	Drawn by:	
	PDT	

SAN FRANCISCO BAY  
**SAN FRANCISCO MAINSHIP CHANNEL**  
CONDITION SURVEY  
23 & 28 JULY 2021

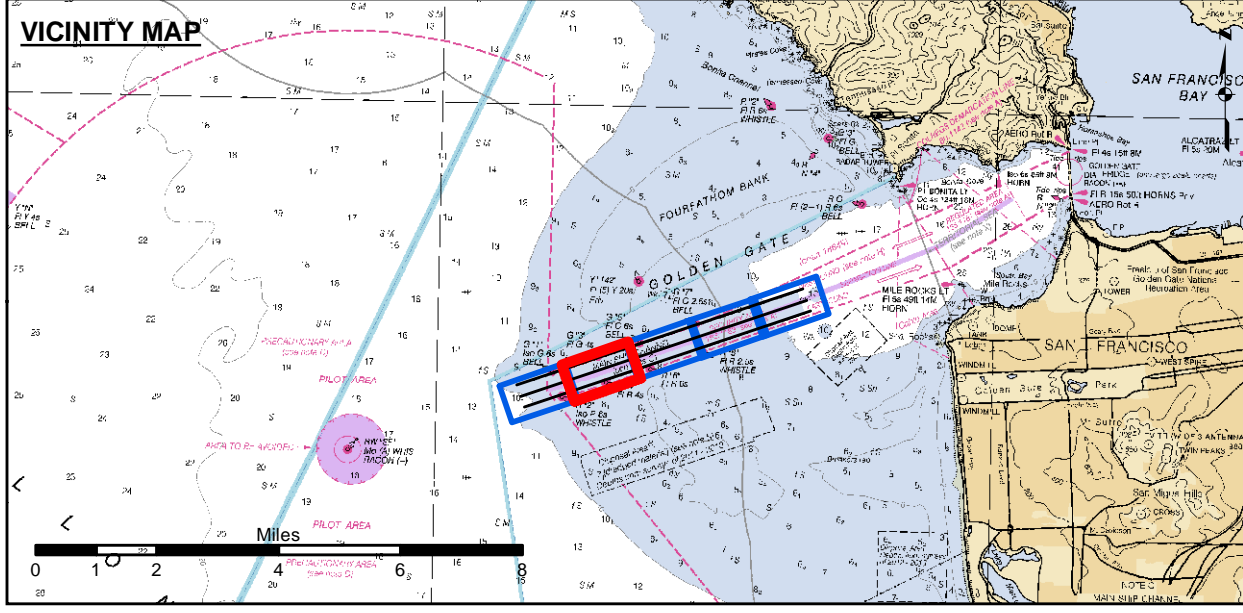
**Sheet Reference Number**  
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**PRELIMINARY ISSUE**  
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- |  |                            |  |                    |                      |    |
|--|----------------------------|--|--------------------|----------------------|----|
|  | Federal Navigation Channel |  | Beacon, General    | <b>Contour Lines</b> |    |
|  | Shoaling Area              |  | Obstruction Point  |                      |    |
|  | Placement Area             |  | Navigation Buoy    |                      |    |
|  | Anchorage Area             |  | Navigation Buoy    |                      |    |
|  | Wreck Area                 |  | Shoalest Sounding* |                      |    |
|  | Submerged Wreck            |  |                    |                      | 51 |
|  | Angle Point                |  |                    |                      | 52 |
|  |                            |  |                    |                      | 53 |
|  |                            |  |                    |                      | 54 |
|  |                            |  |                    |                      | 55 |

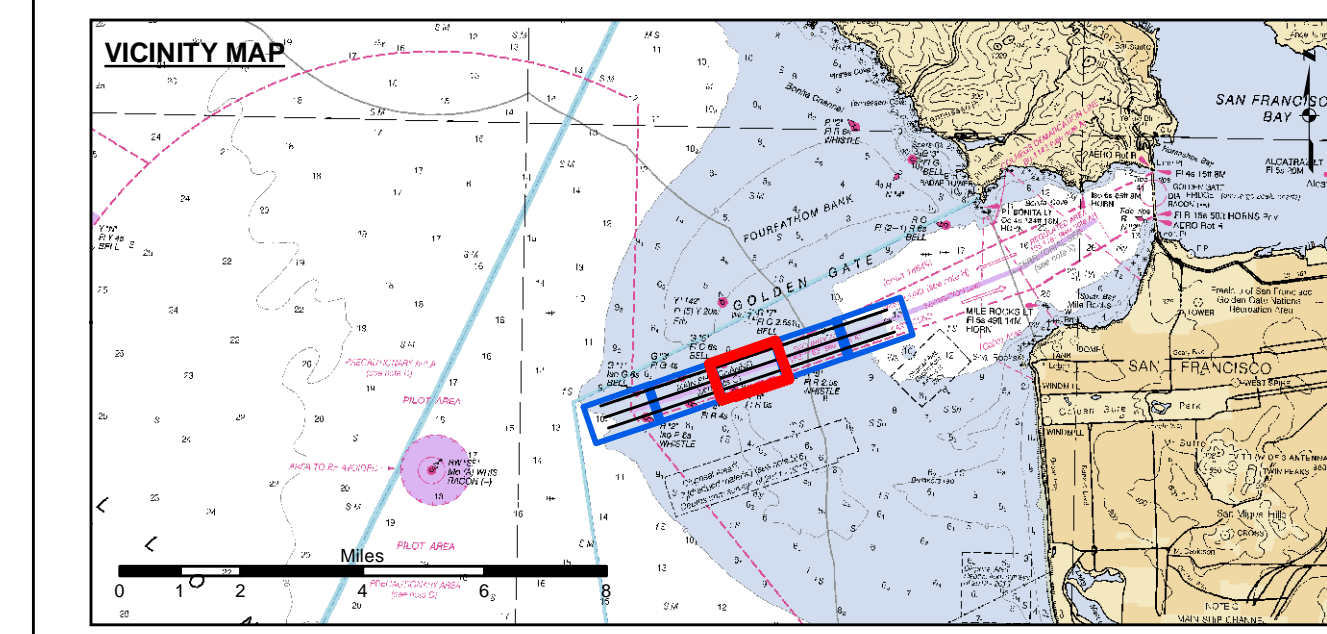
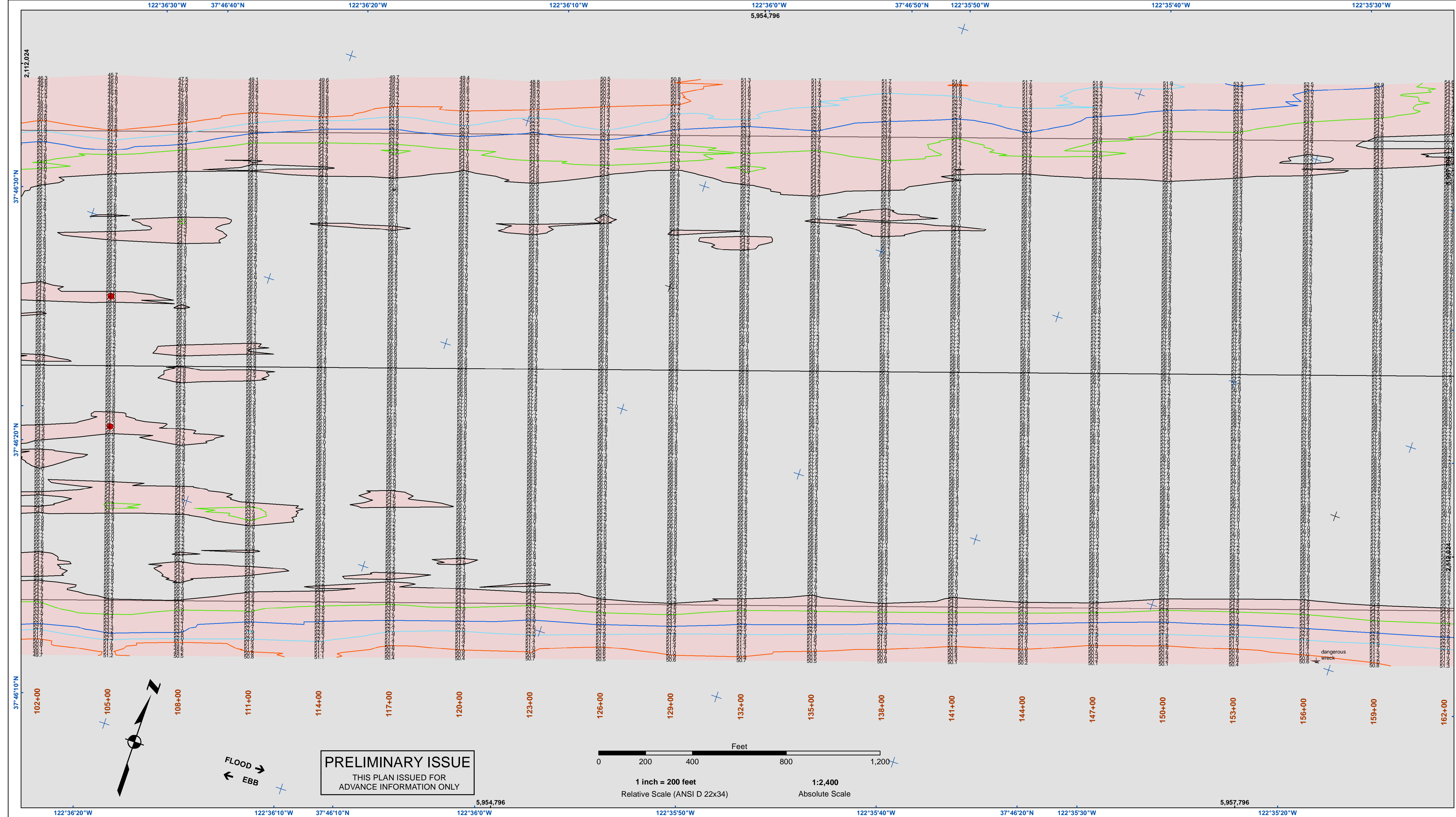
**NOTES:**  
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 VERTICAL CONTROL:  
 BENCHMARK "Q-481" USC&GS DISK ELEV. 19.54 FT MLLW.  
 HORIZONTAL CONTROL:  
 COAST GUARD D-BEACON.

PREPARED UNDER THE DIRECTION OF <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Aug 03, 2021
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

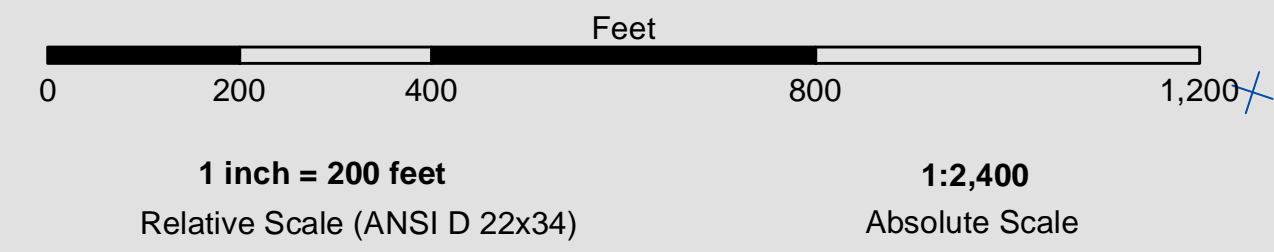
SAN FRANCISCO BAY  
 CALIFORNIA  
**SAN FRANCISCO MAINSHIP CHANNEL**  
 CONDITION SURVEY  
 23 & 28 JULY 2021

**Sheet Reference Number**  
 2 of 5



**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY

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



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HORIZONTAL CONTROL:  
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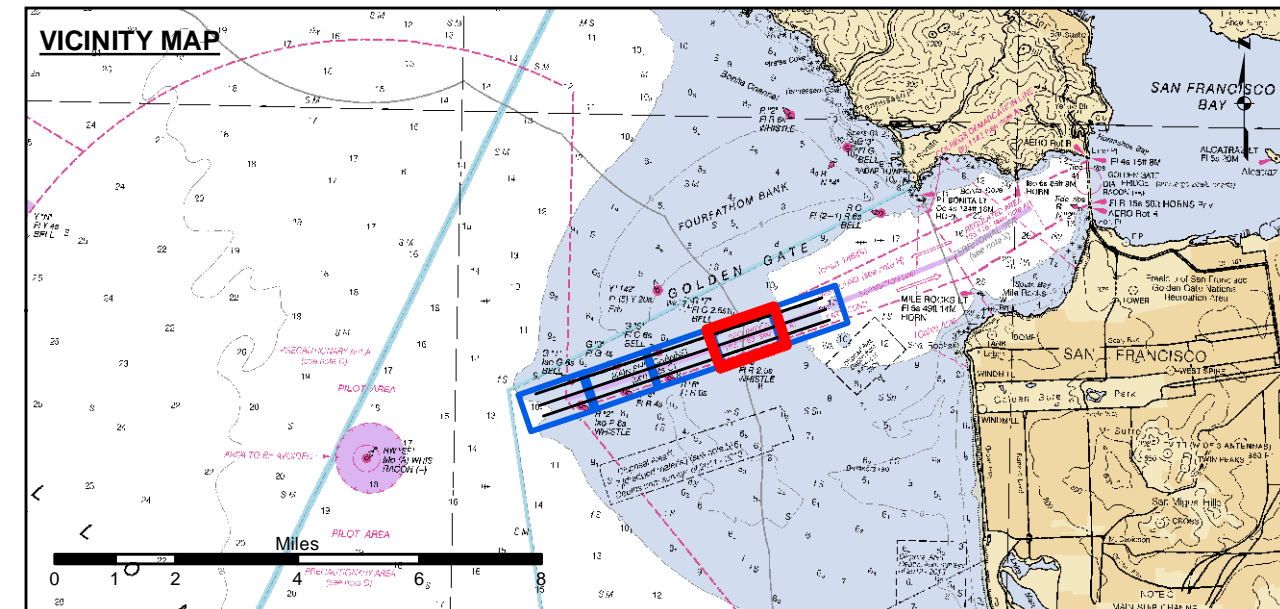
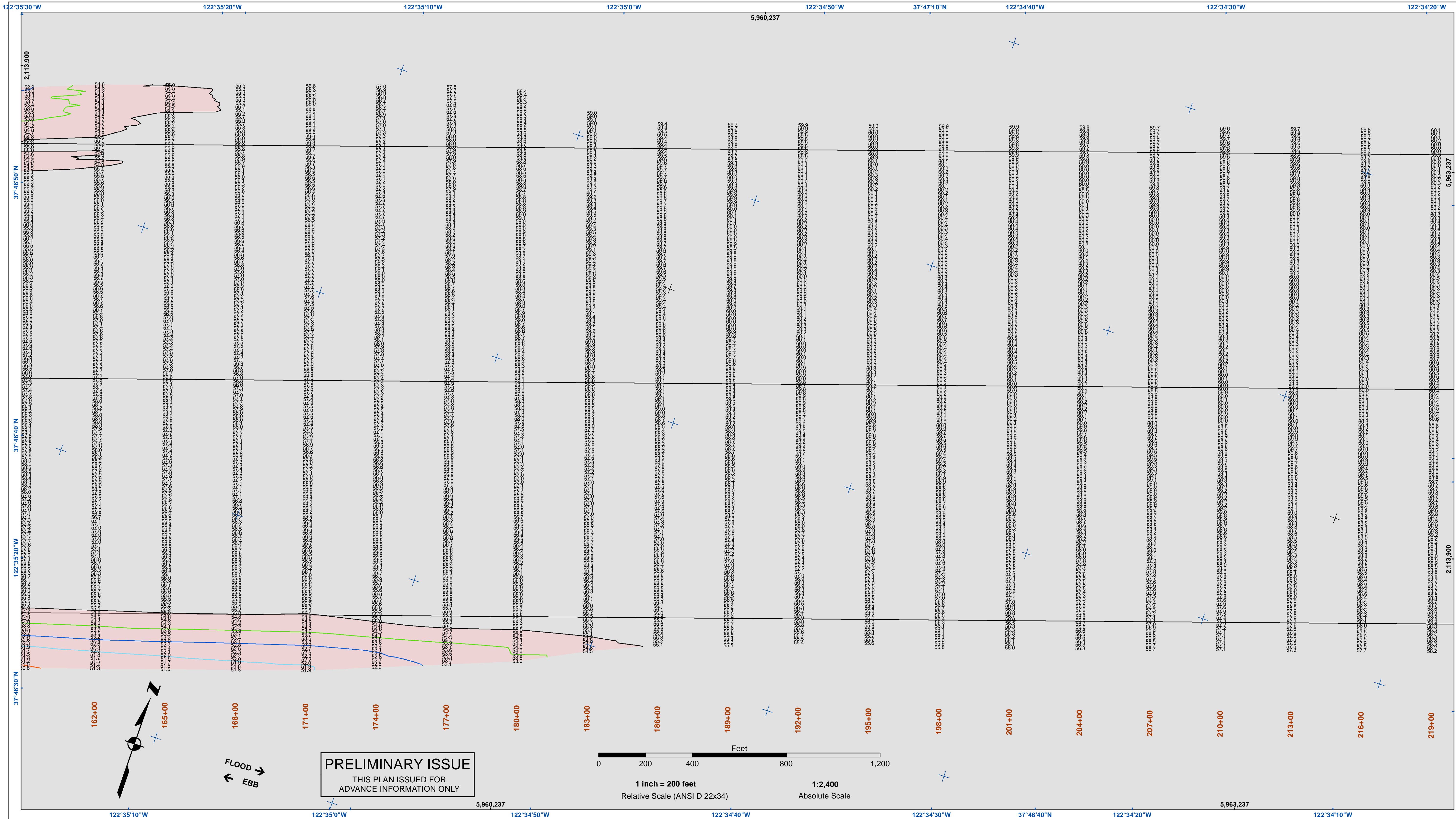


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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT Colonel, C.E., District Engineer	Surveyed By: PDT	Chart Date: Aug 03, 2021
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CALIFORNIA  
SAN FRANCISCO BAY  
**SAN FRANCISCO MAINSHIP CHANNEL**  
CONDITION SURVEY  
23 & 28 JULY 2021

**Sheet Reference Number**  
3 of 5



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

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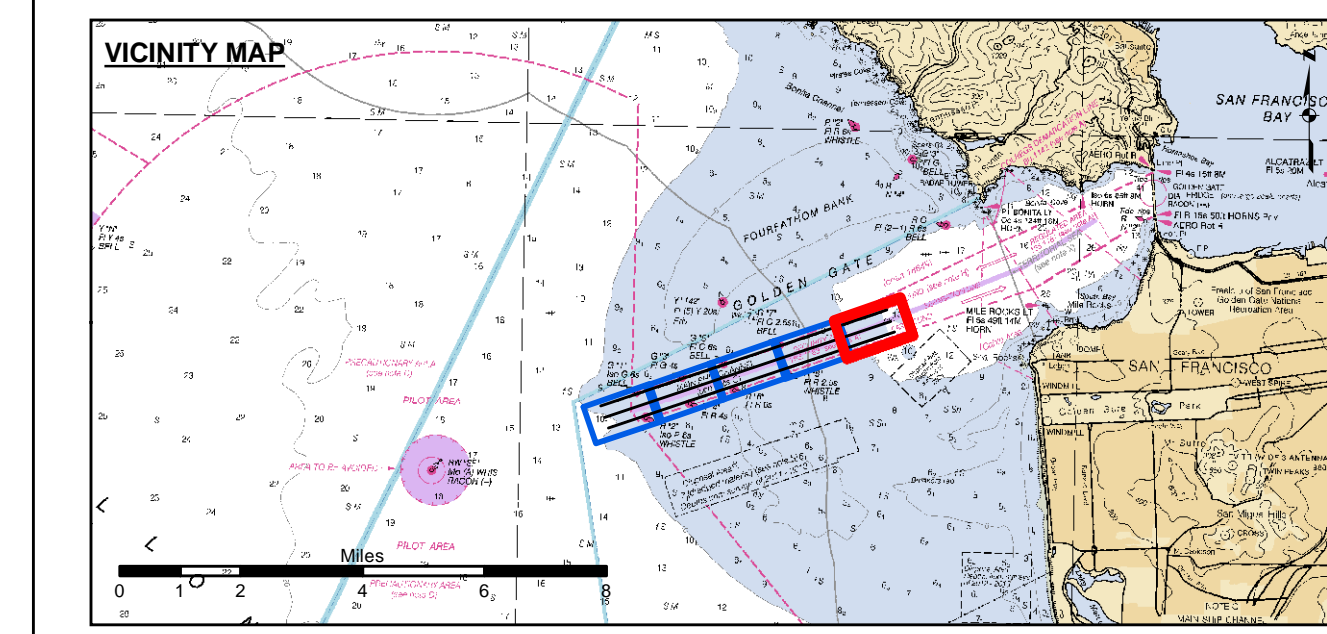
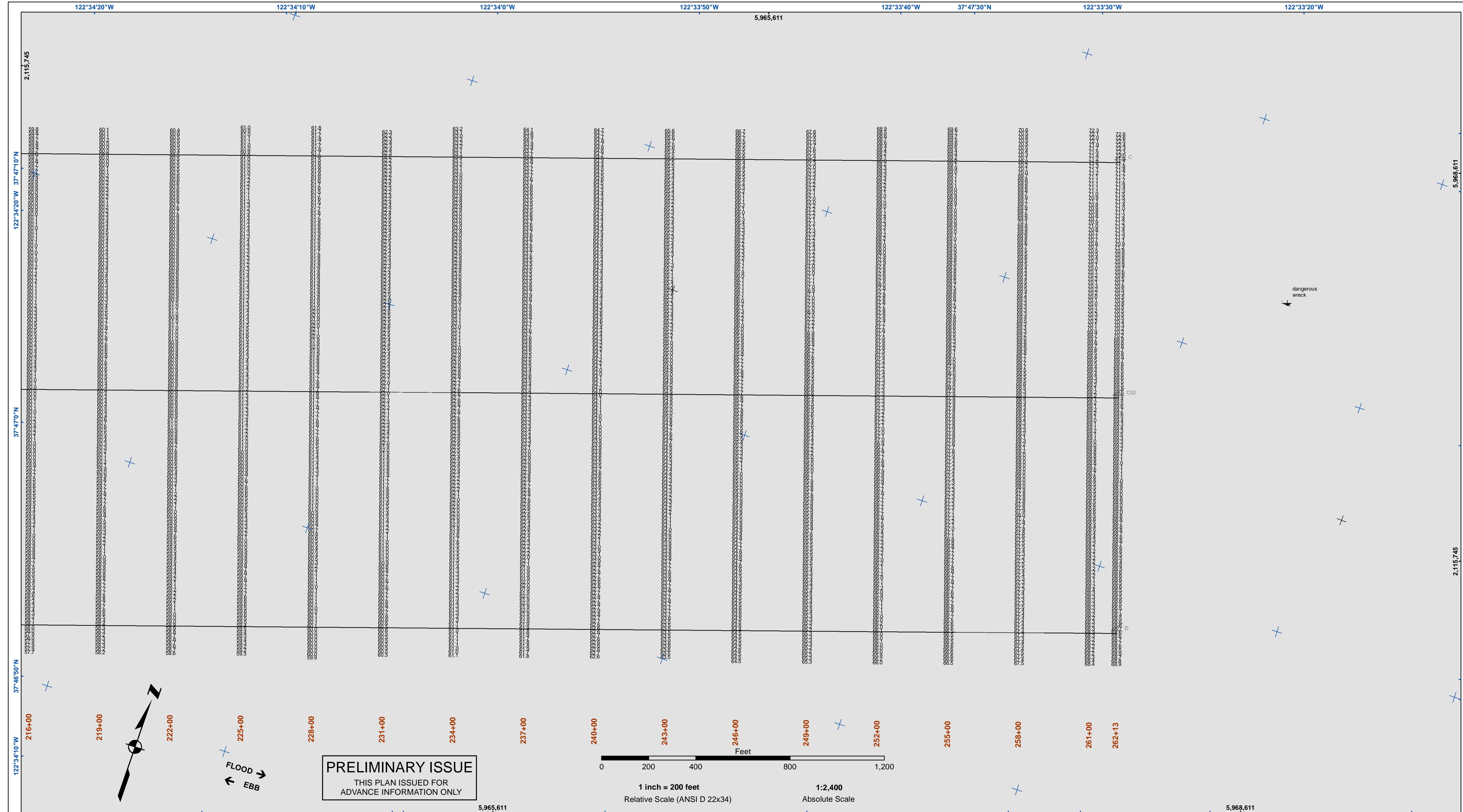


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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Aug 03, 2021
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

SAN FRANCISCO BAY  
 CALIFORNIA  
**SAN FRANCISCO MAINSHIP CHANNEL**  
 CONDITION SURVEY  
 23 & 28 JULY 2021

**Sheet Reference Number**  
**4 of 5**



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

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PREPARED UNDER THE DIRECTION OF <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Aug 03, 2021
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  
 23 & 28 JULY 2021

Sheet  
 Reference  
 Number  
**5 of 5**