

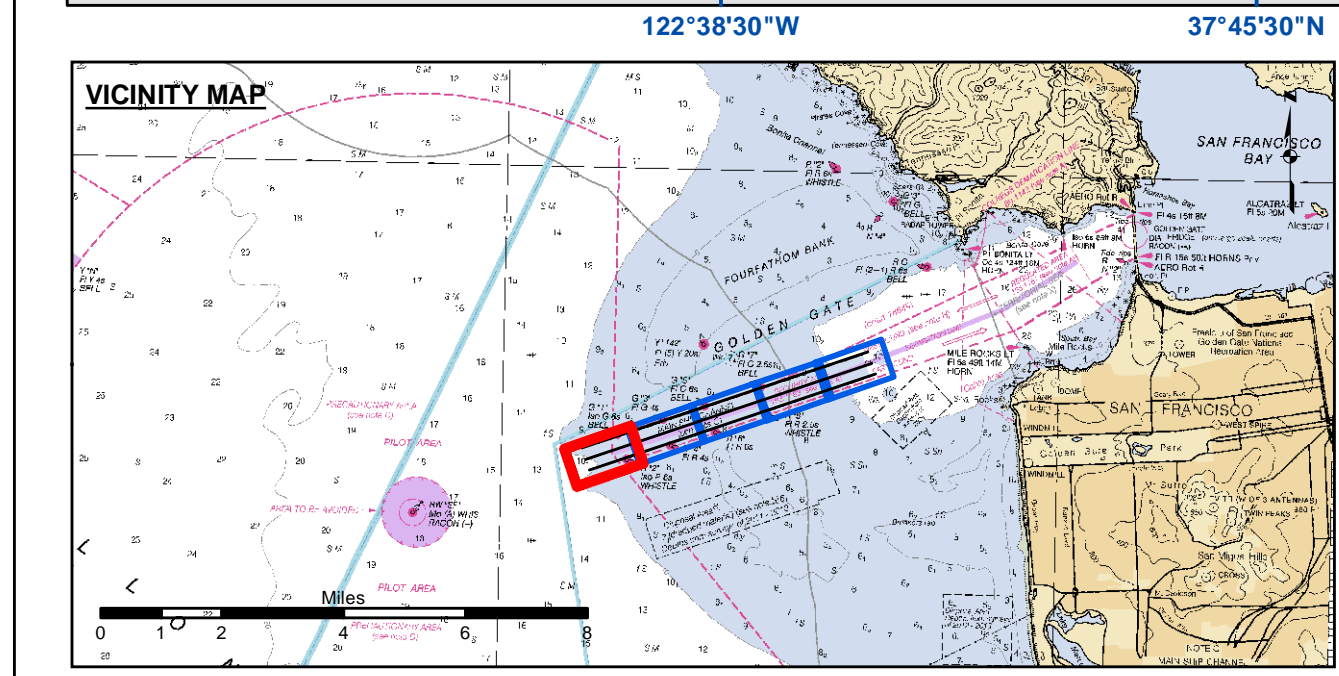
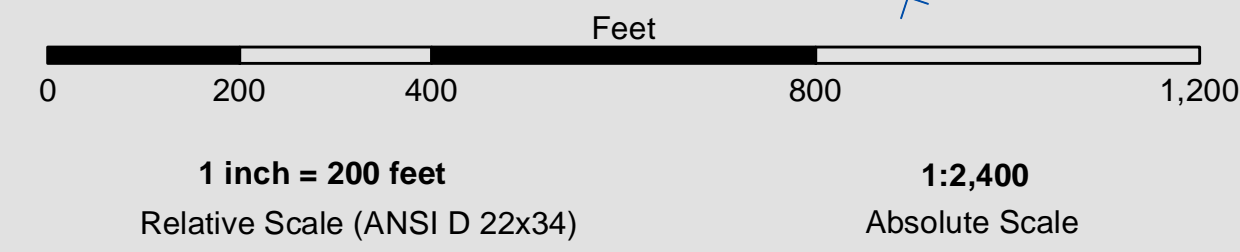
**CHANNEL ANGLE POINTS - NAD 83**

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 |  | Beacon, General    | <b>Contour Lines</b> |
|  | Shoaling Area              |  | Obstruction Point  |                      |
|  | Placement Area             |  | Navigation Buoy    |                      |
|  | Anchorage Area             |  | Navigation Buoy    |                      |
|  | Wreck Area                 |  | Shoalest Sounding* |                      |
|  | Submerged Wreck            |  |                    |                      |
|  | 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.  
VERTICAL DATUM:  
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.  
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\*SHOALEST SOUNDING PER QUARTER PER REACH

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VERTICAL CONTROL:  
BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.  
HORIZONTAL CONTROL:  
COAST GUARD D-BEACON.

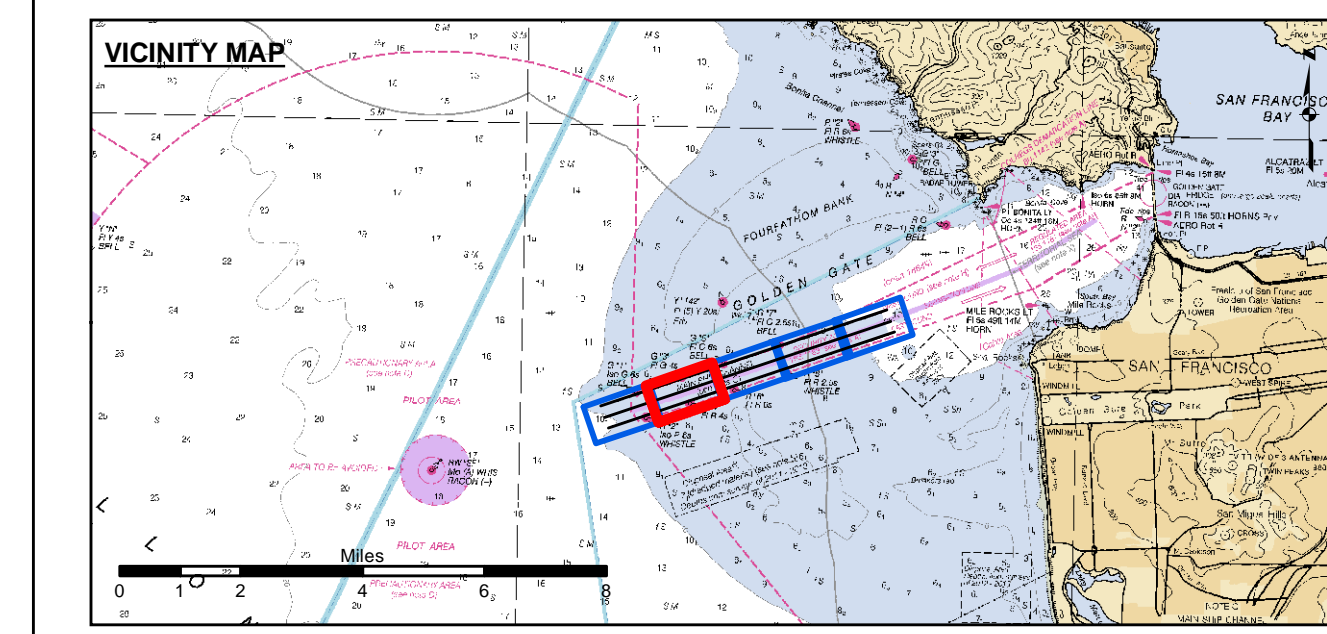
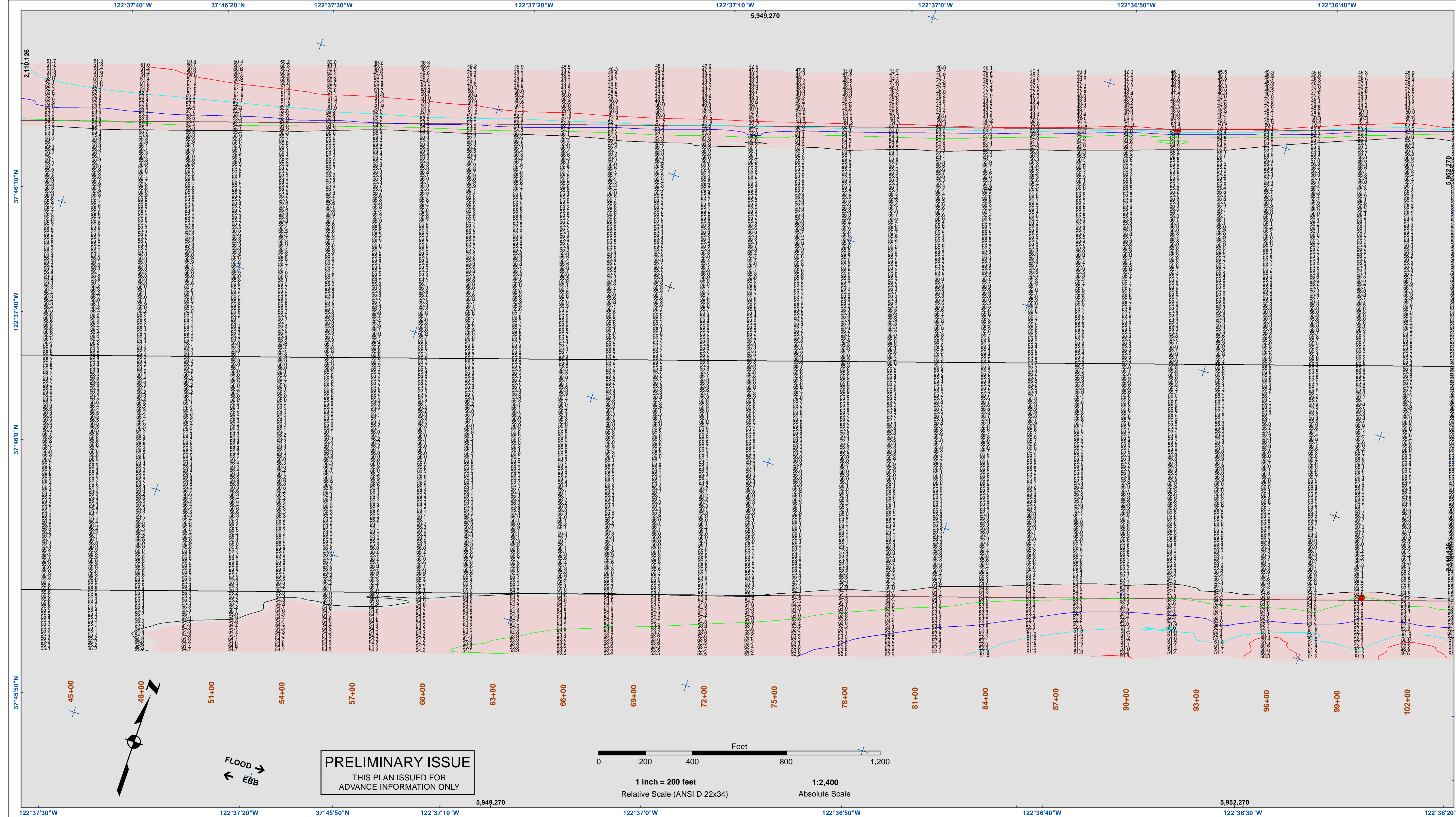


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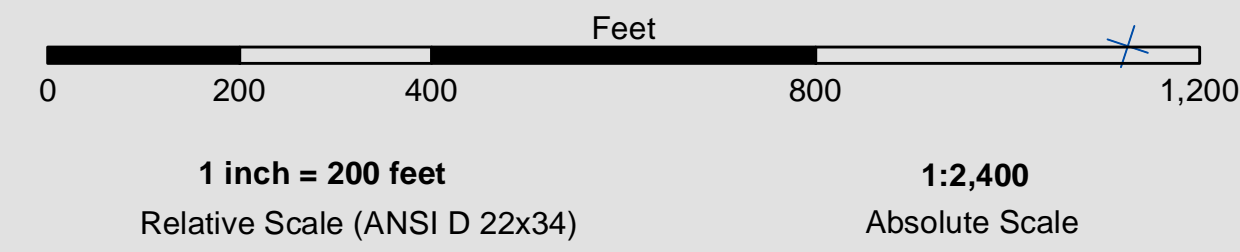
Prepared Under the Direction of	Chart Date
LT COLONEL C.E. DISTRICT ENGINEER	Jun 28, 2022
Submitted	Plotted By:
Hydro Survey Team Leader	PDT
Recommended	Checked By:
Chief, Hydro Survey Section	PDT
Approved	Drawn by:
Chief, Construction Branch	PDT

SAN FRANCISCO BAY  
SAN FRANCISCO CALIFORNIA  
**SAN FRANCISCO MAINSHIP CHANNEL**  
CONDITION SURVEY  
22-23 JUNE 2022

**Sheet Reference Number**  
1 of 5



**PRELIMINARY ISSUE**  
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- |                            |                    |                      |    |
|----------------------------|--------------------|----------------------|----|
| Federal Navigation Channel | Beacon, General    | <b>Contour Lines</b> | 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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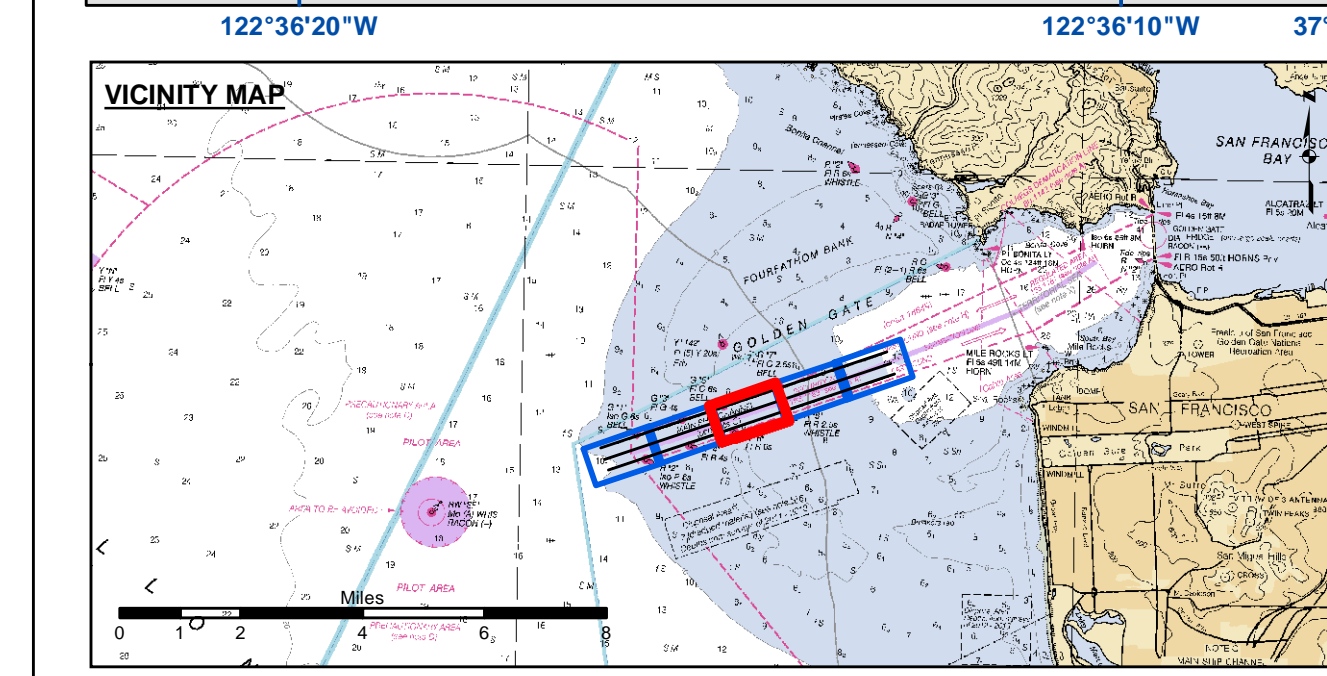
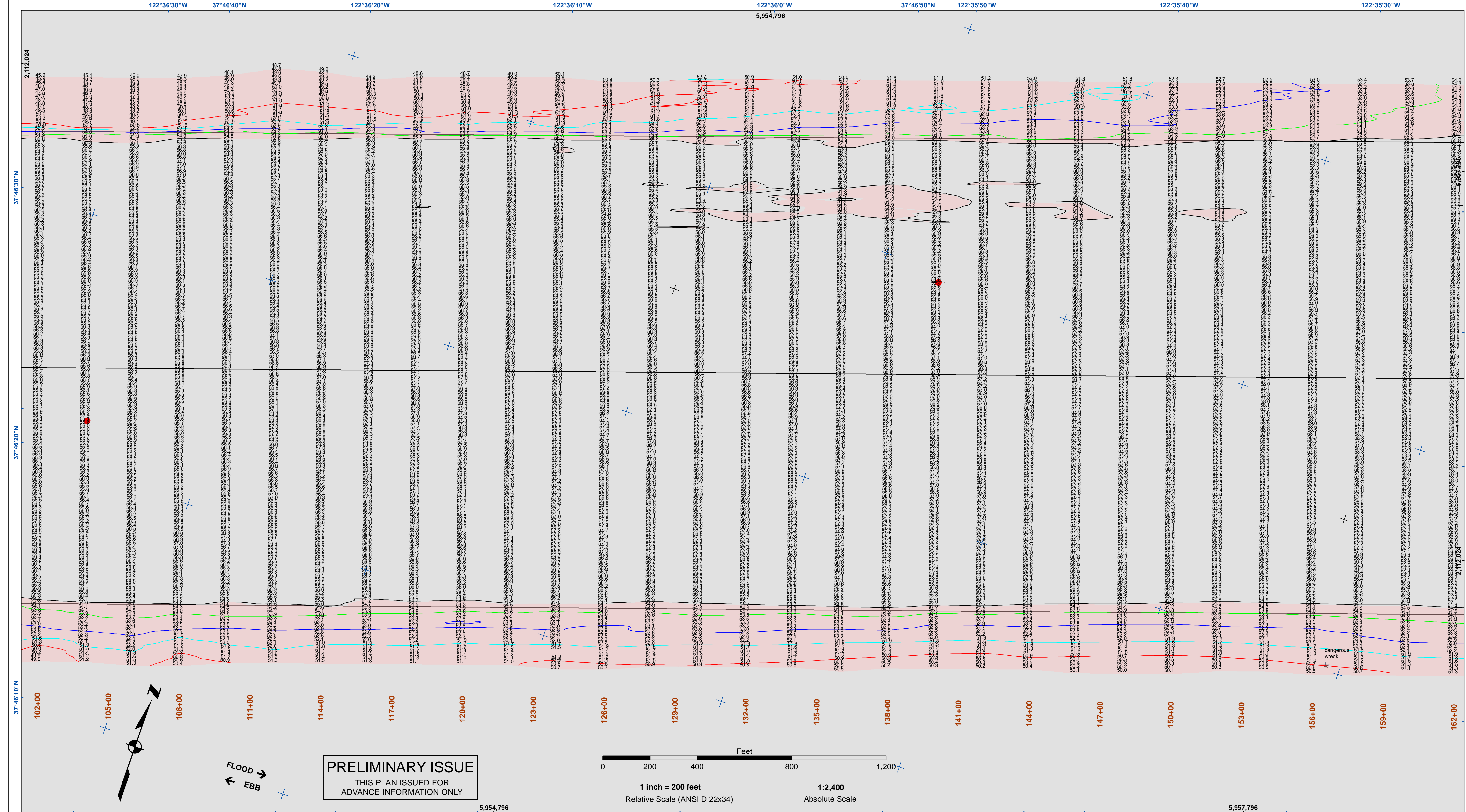


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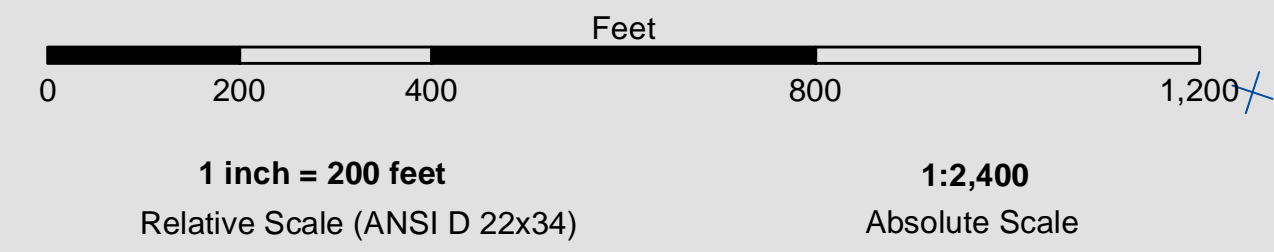
Prepared Under the Direction of:	Chart Date:
LT COLONEL C.E. DISTRICT ENGINEER	Jun 28, 2022
Plotted By:	Designed by:
PDT	PDT
Checked By:	Drawn by:
PDT	PDT

**SAN FRANCISCO**  
**SAN FRANCISCO BAY**  
**MAINSHIP CHANNEL**  
**CONDITION SURVEY**  
22-23 JUNE 2022

**Sheet Reference Number**  
**2 of 5**



**PRELIMINARY ISSUE**  
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- |  |                            |  |                    |                      |  |    |
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|  | Federal Navigation Channel |  | Beacon, General    | <b>Contour Lines</b> |  | 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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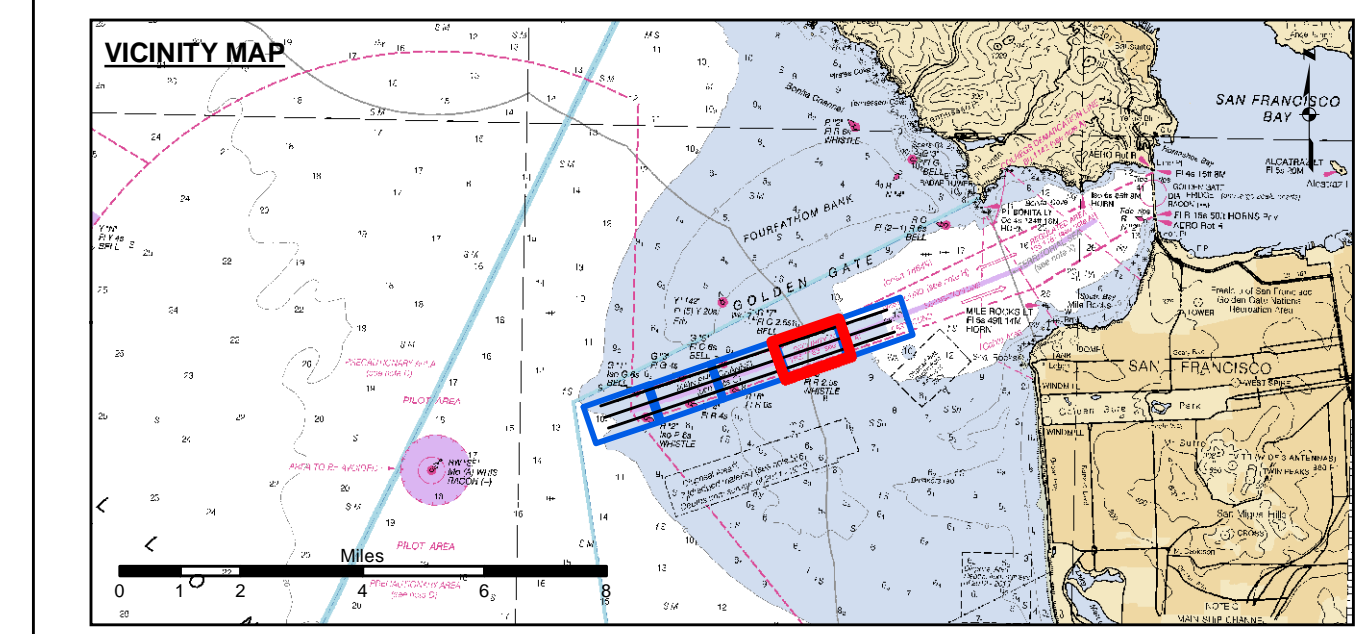
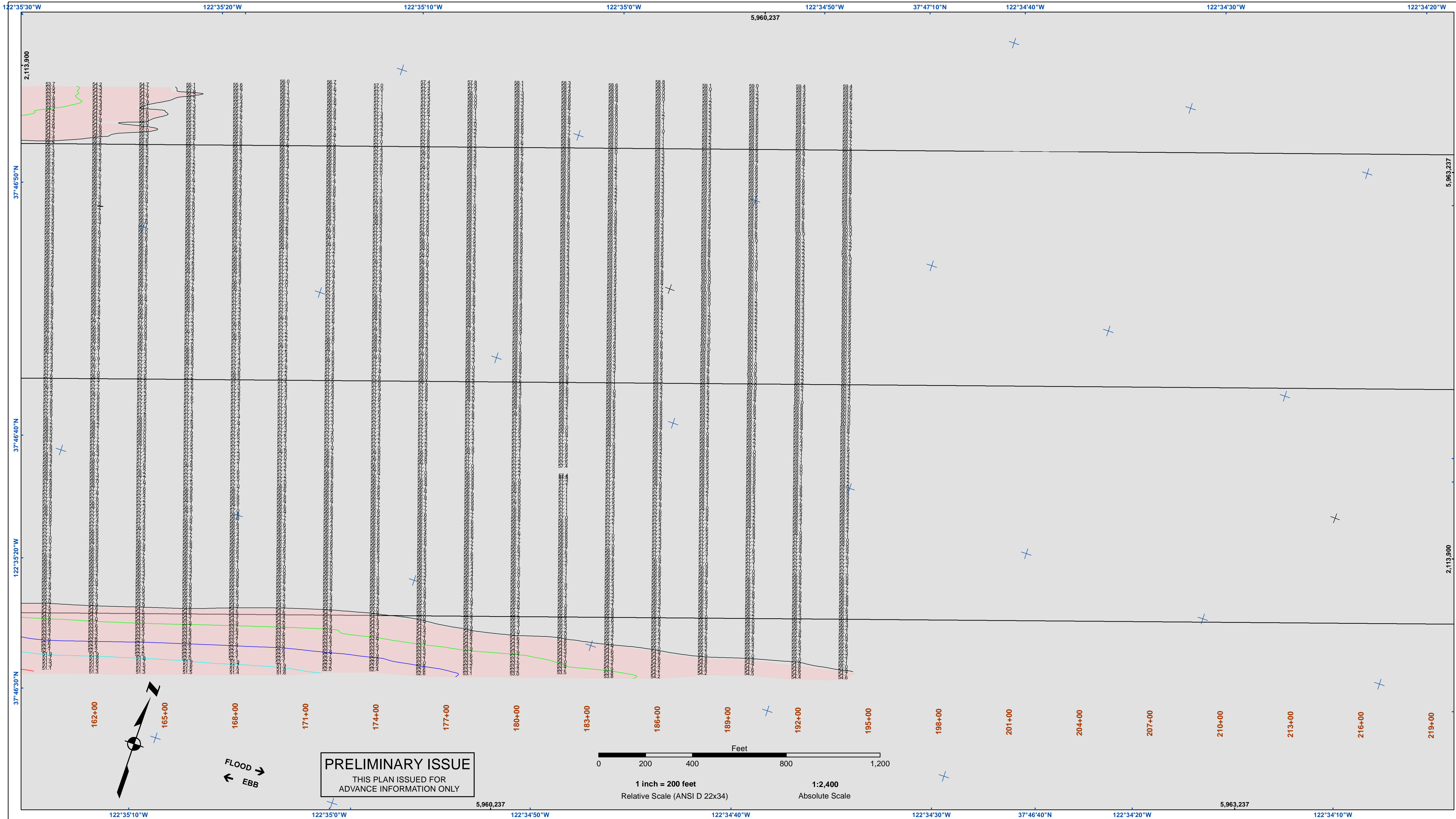


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PREPARED UNDER THE DIRECTION OF <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Jun 28, 2022
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Designed by:
Approved: Chief, Construction Branch	Drawn by: PDT	Drawn by:

CALIFORNIA  
SAN FRANCISCO BAY  
**SAN FRANCISCO MAINSHIP CHANNEL**  
CONDITION SURVEY  
22-23 JUNE 2022

**Sheet Reference Number**  
**3 of 5**



- |  |                            |  |                    |                      |
|--|----------------------------|--|--------------------|----------------------|
|  | Federal Navigation Channel |  | Beacon, General    | <b>Contour Lines</b> |
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PREPARED UNDER THE DIRECTION OF <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date:
Submitted by: Hydro Survey Team Leader	Plotted By:	Jun 28, 2022
Recommended by: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved by: Chief, Construction Branch	Drawn by:	PDT

CALIFORNIA  
 SAN FRANCISCO  
**MAINSHIP CHANNEL**  
 CONDITION SURVEY  
 22-23 JUNE 2022

**Sheet Reference Number**  
 4 of 5