



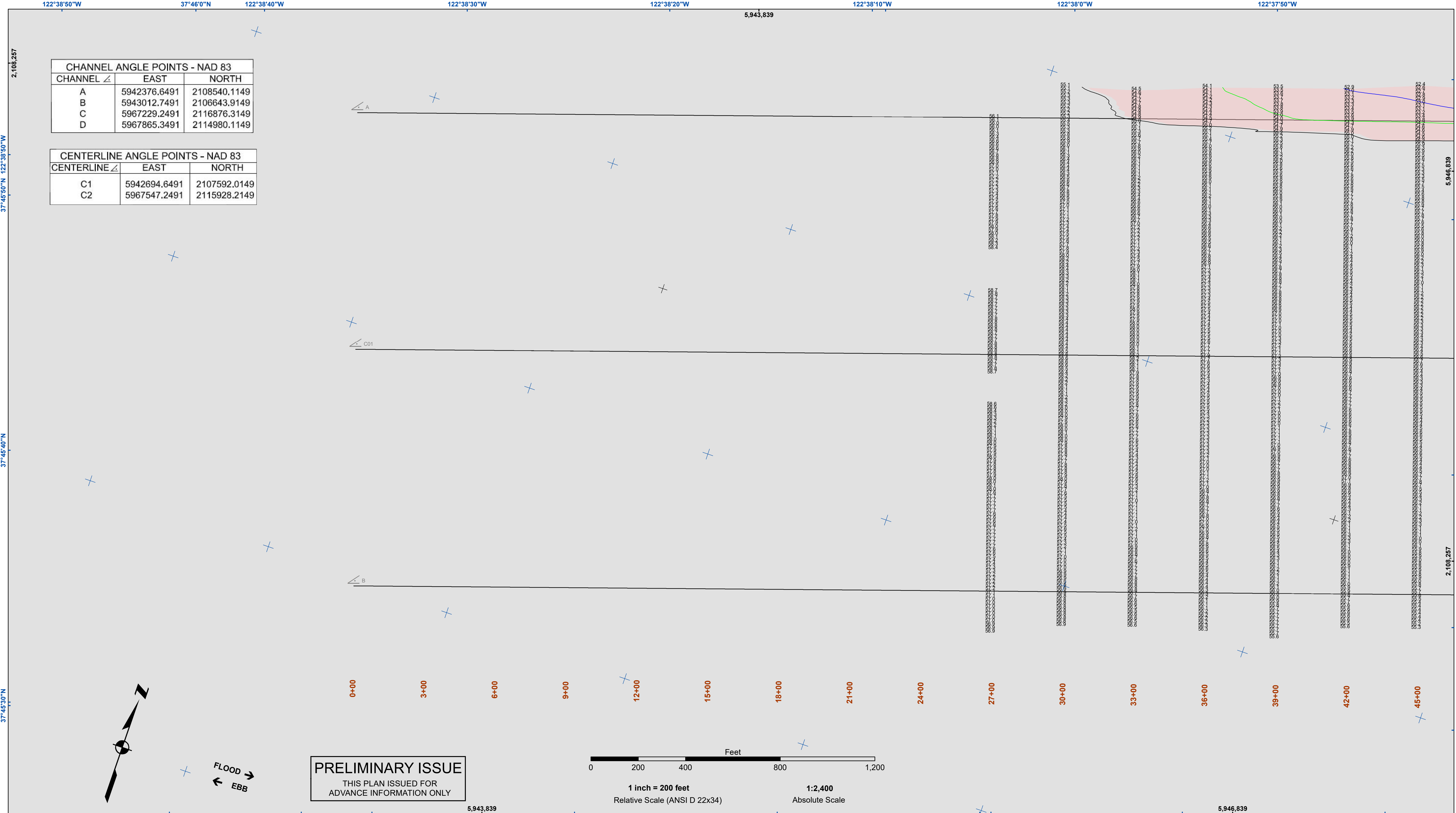
US Army Corps of Engineers  
San Francisco District  
450 Golden Gate Ave.  
San Francisco, CA 94102

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|  |                          |
|--|--------------------------|
| Prepared Under the Direction of<br><b>TIMOTHY W. SHEBESTA</b><br>LT Colonel, C.E., District Engineer | Chart Date: Aug 11, 2023 |
| Submitted:<br>Hydro Survey Team Leader   | Designed by:<br>PDT      |
| Recommended:<br>Chief, Hydro Survey Section  | Plotted By:<br>PDT       |
| Approved:<br>Chief, Construction Branch  | Checked By:<br>PDT       |
|  | Drawn by:<br>PDT         |

CALIFORNIA  
**SAN FRANCISCO**  
MAINSHIP CHANNEL  
POST-DREDGE SURVEY  
27 JULY - 09 AUGUST 2023

**Sheet Reference Number**  
1 of 5

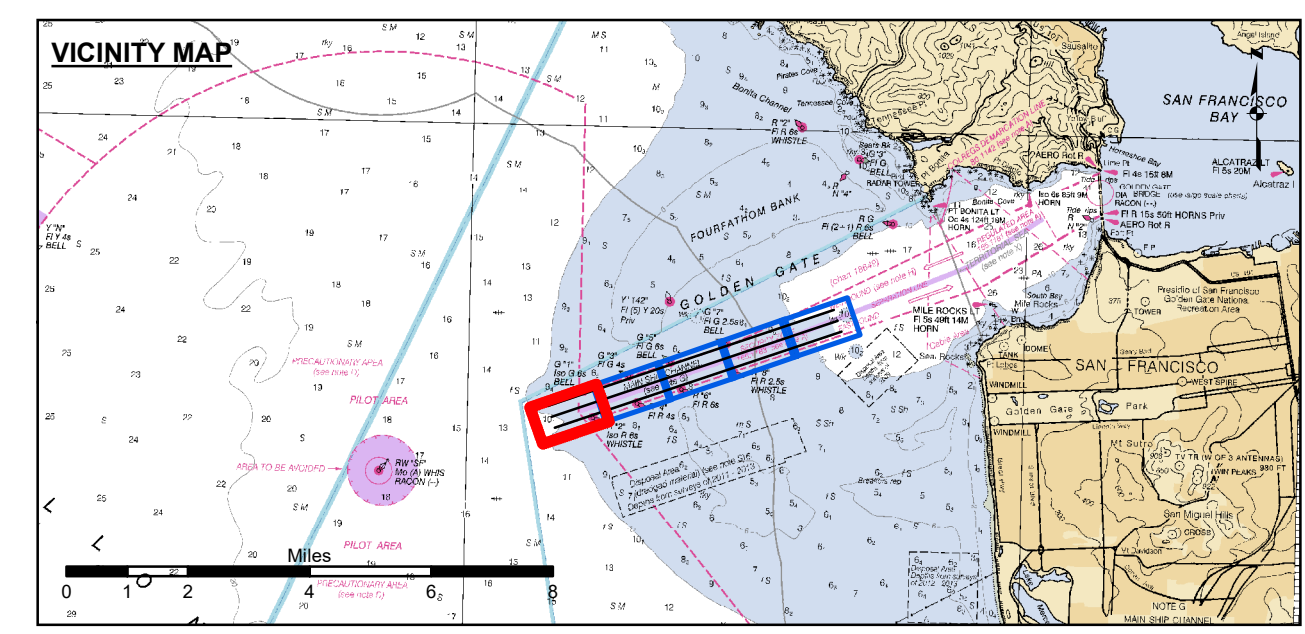


**CHANNEL ANGLE POINTS - NAD 83**

| 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 |

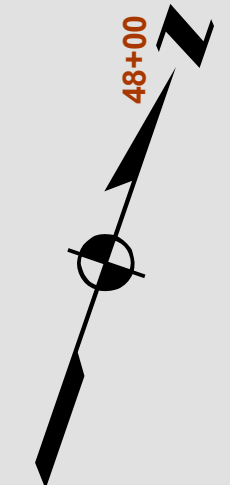
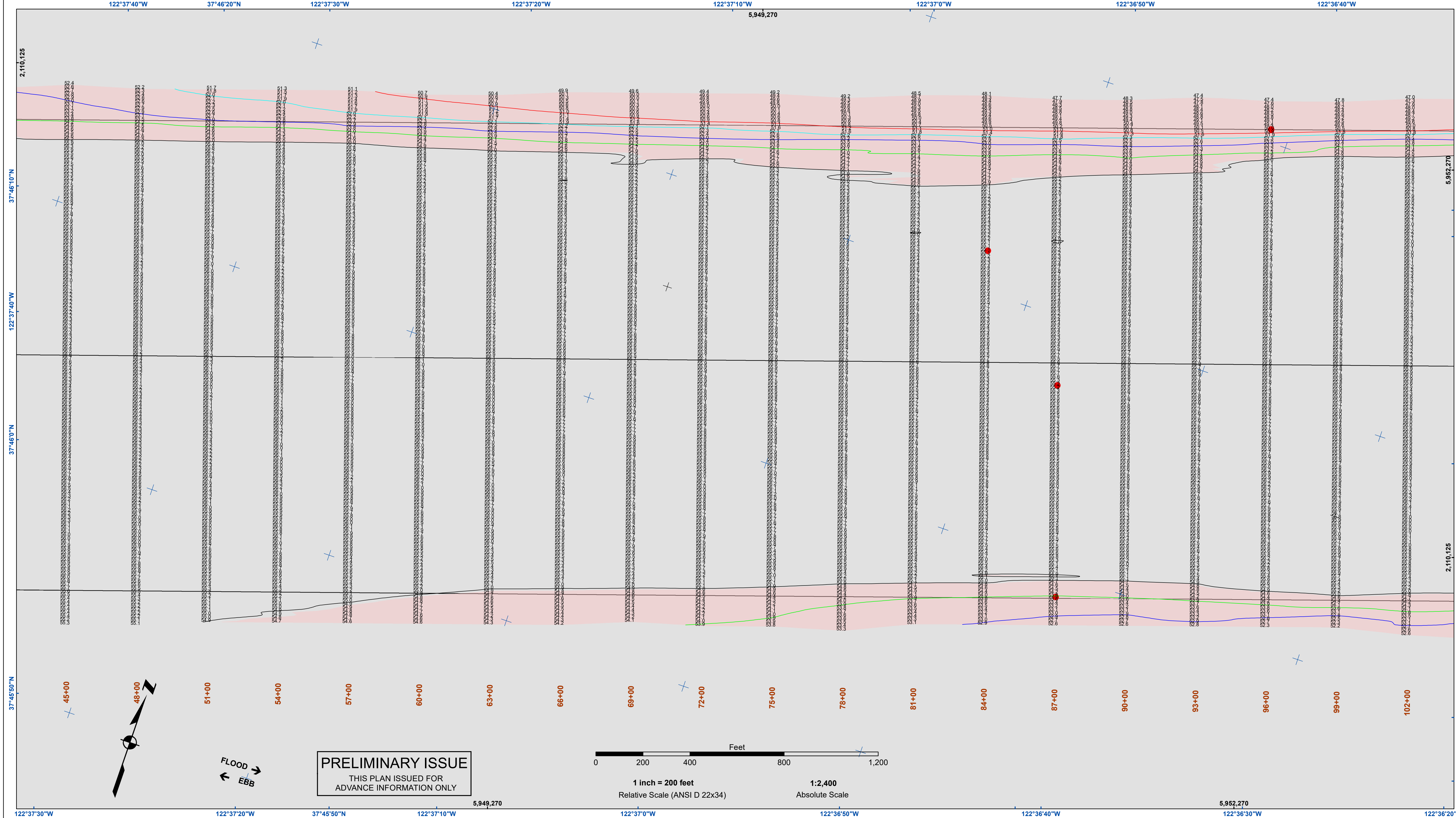


|                            |                    |                  |
|----------------------------|--------------------|------------------|
| Federal Navigation Channel | Beacon, General    | Contour Lines 51 |
| Shoaling Area              | Obstruction Point  | Contour Lines 52 |
| Placement Area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

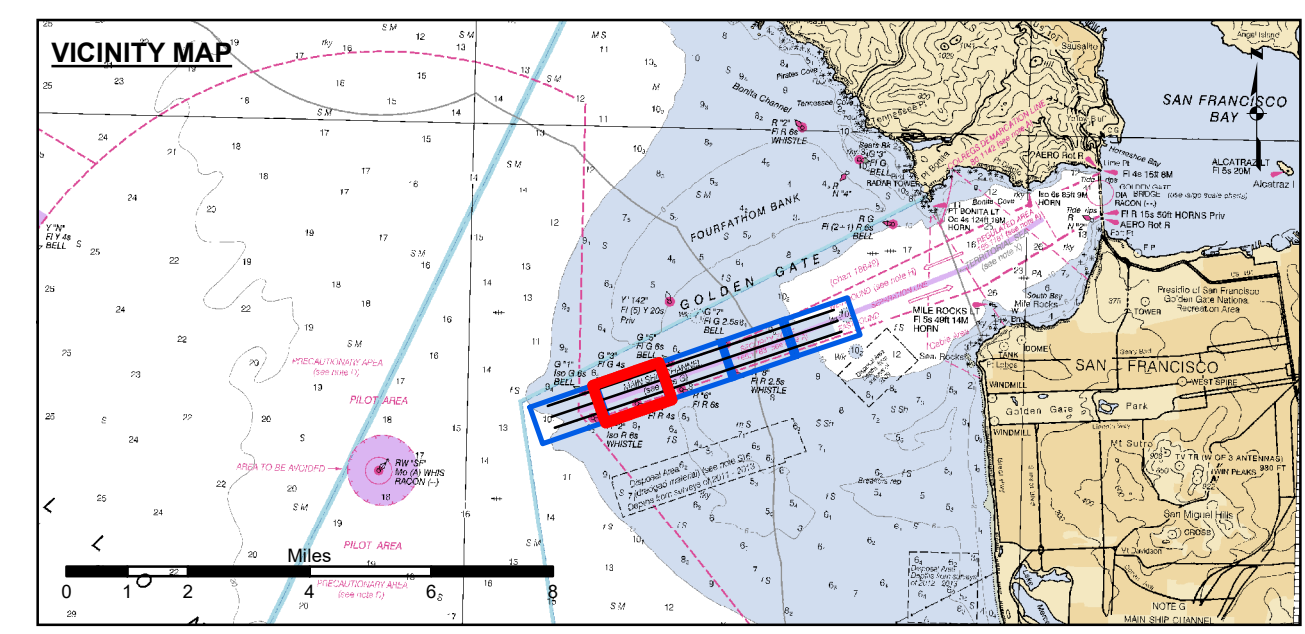
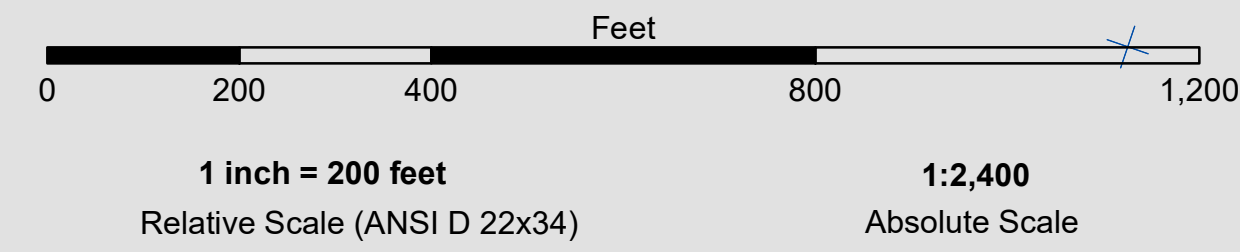
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.  
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VERTICAL CONTROL:  
BENCHMARK "Q-481" USC&GS DISK ELEV. 19.54 FT MLLW.  
HORIZONTAL CONTROL:  
COAST GUARD D-BEACON.





**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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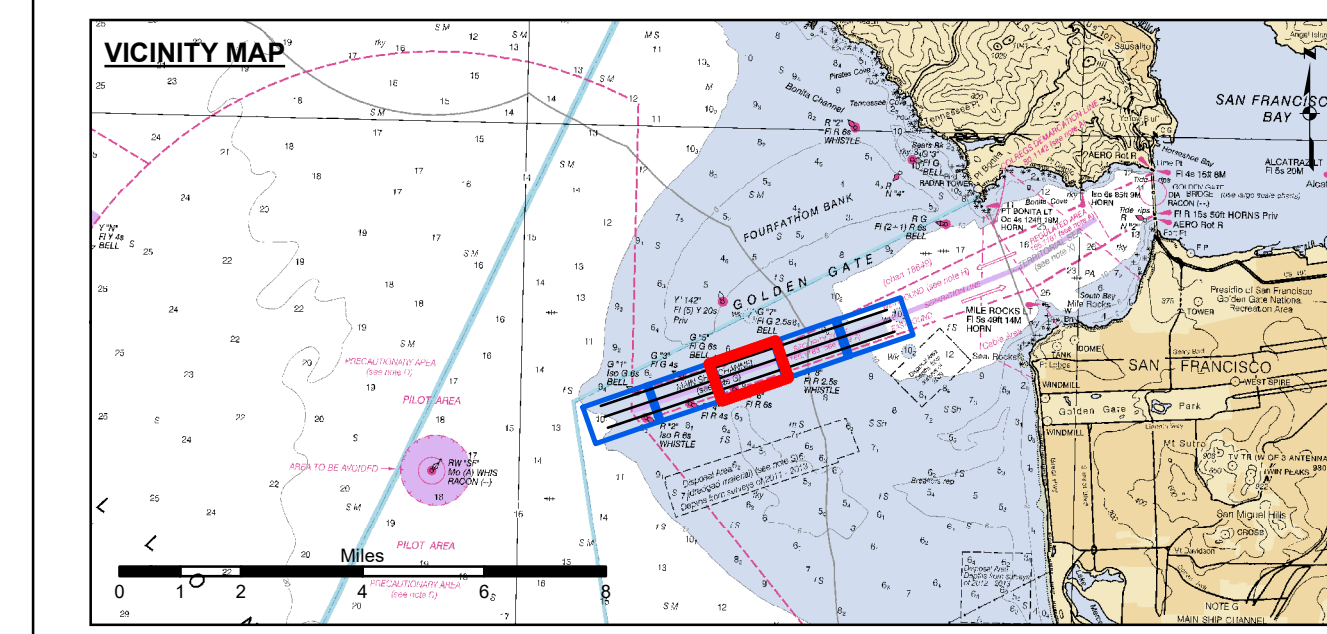
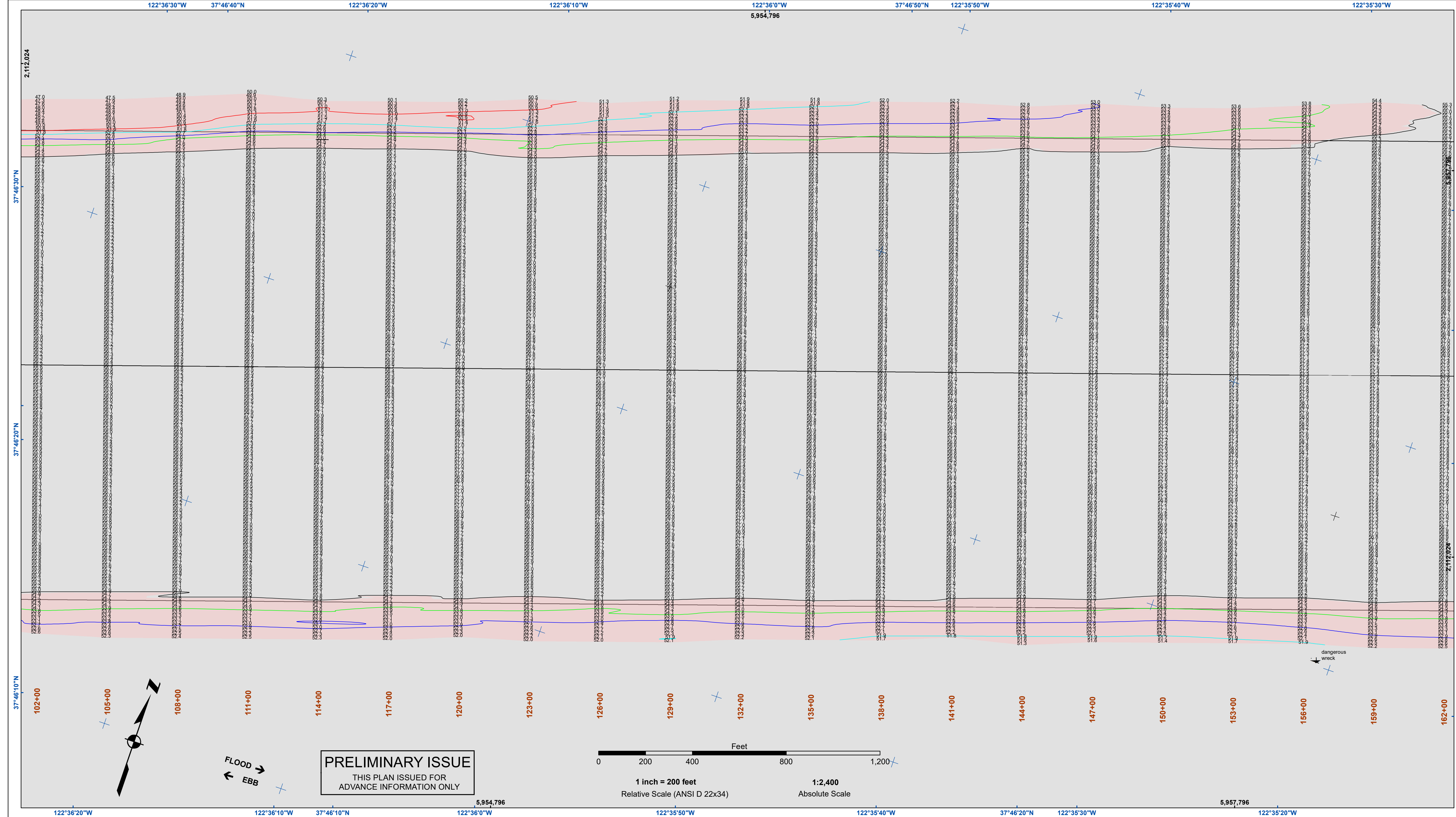
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| Prepared Under the Direction of<br><b>TIMOTHY W. SHEBESTA</b><br>LT COLONEL, C.E., DISTRICT ENGINEER | Chart Date:<br>Aug 11, 2023 |
| Submitted:<br>Hydro Survey Team Leader   | Designed by:<br>PDT         |
| Recommended by:<br>Chief, Hydro Survey Section   | Drawn by:<br>PDT            |
| Approved:<br>Chief, Construction Branch  |                             |

**SAN FRANCISCO**  
CALIFORNIA  
**SAN FRANCISCO**  
MAINSHIP CHANNEL  
POST-DREDGE SURVEY  
27 JULY - 09 AUGUST 2023

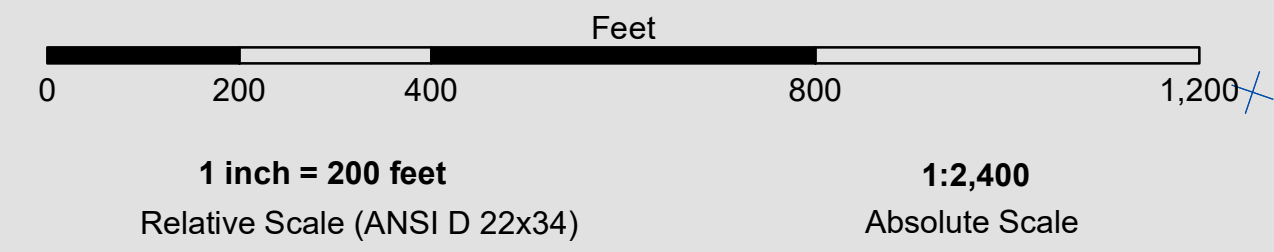
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**Number**  
**2 of 5**





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|  | Anchorage Area             |  | Navigation Buoy    |                      |    |
|  | Wreck Area                 |  | Shoalest Sounding* |                      |    |
|  | Submerged Wreck            |  |                    |                      | 51 |
|  | Angle Point                |  |                    |                      | 52 |
|  |                            |  |                    |                      | 53 |
|  |                            |  |                    |                      | 54 |
|  |                            |  |                    |                      | 55 |



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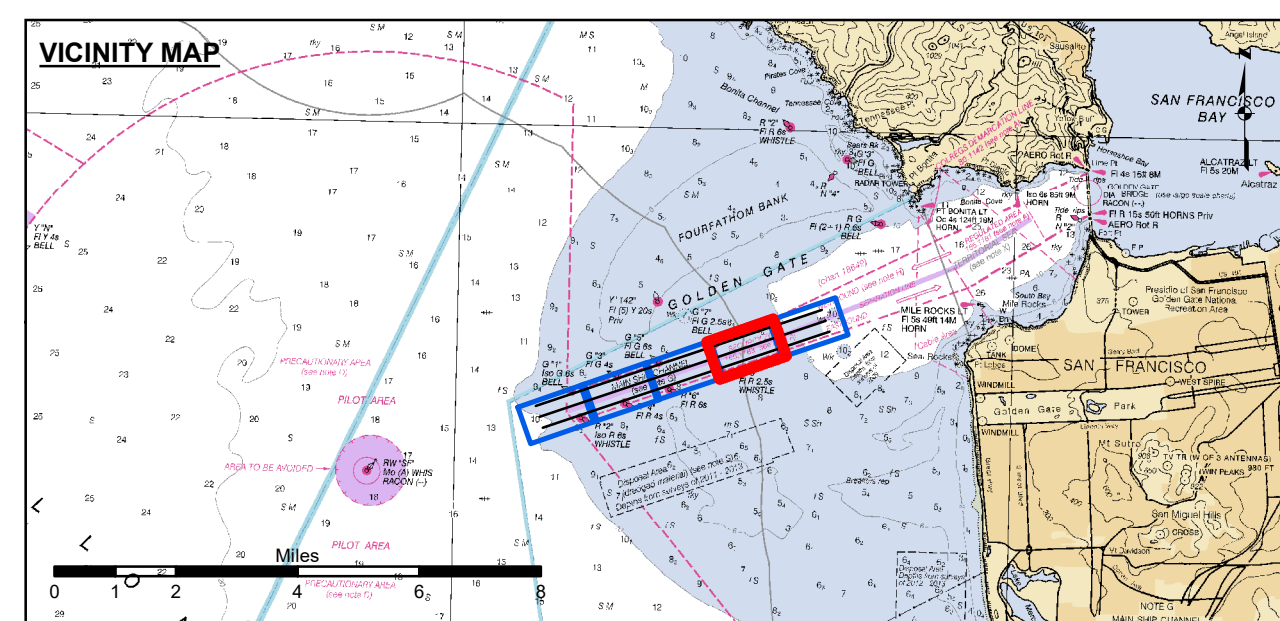
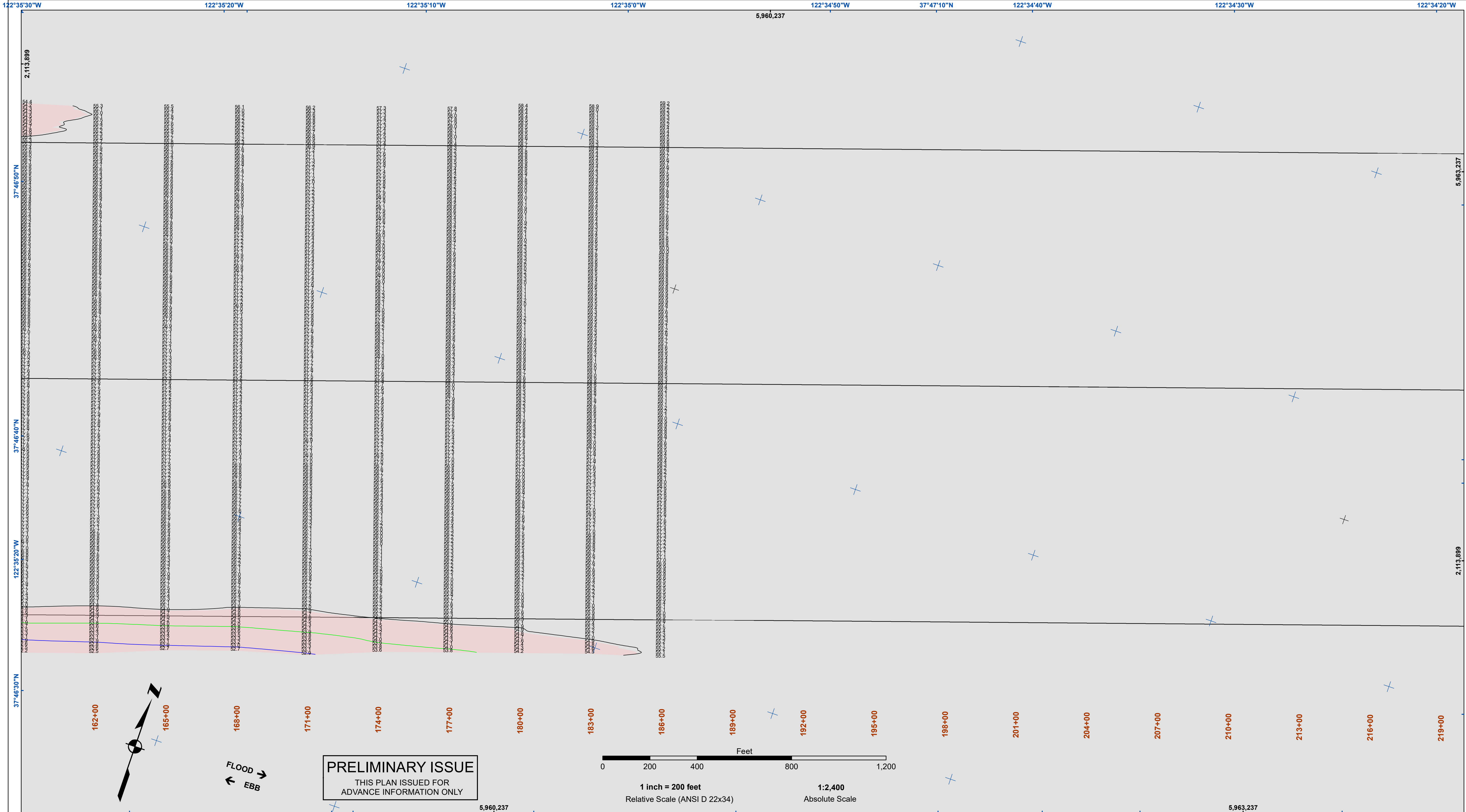
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| Submitted:<br>Hydro Survey Team Leader   | Plotted By:<br>PDT | Aug 11, 2023 |
| Recommended:<br>Chief, Hydro Survey Section  | Checked By:<br>PDT | Designed by: |
| Approved:<br>Chief, Construction Branch  | Drawn by:<br>PDT   |              |

CALIFORNIA  
**SAN FRANCISCO**  
MAINSHIP CHANNEL  
POST-DREDGE SURVEY  
27 JULY - 09 AUGUST 2023

**Sheet Reference Number**  
3 of 5





- 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

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**4 of 5**