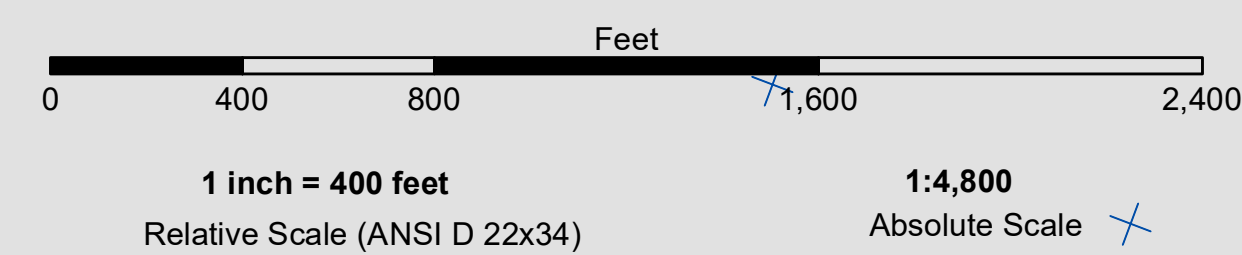


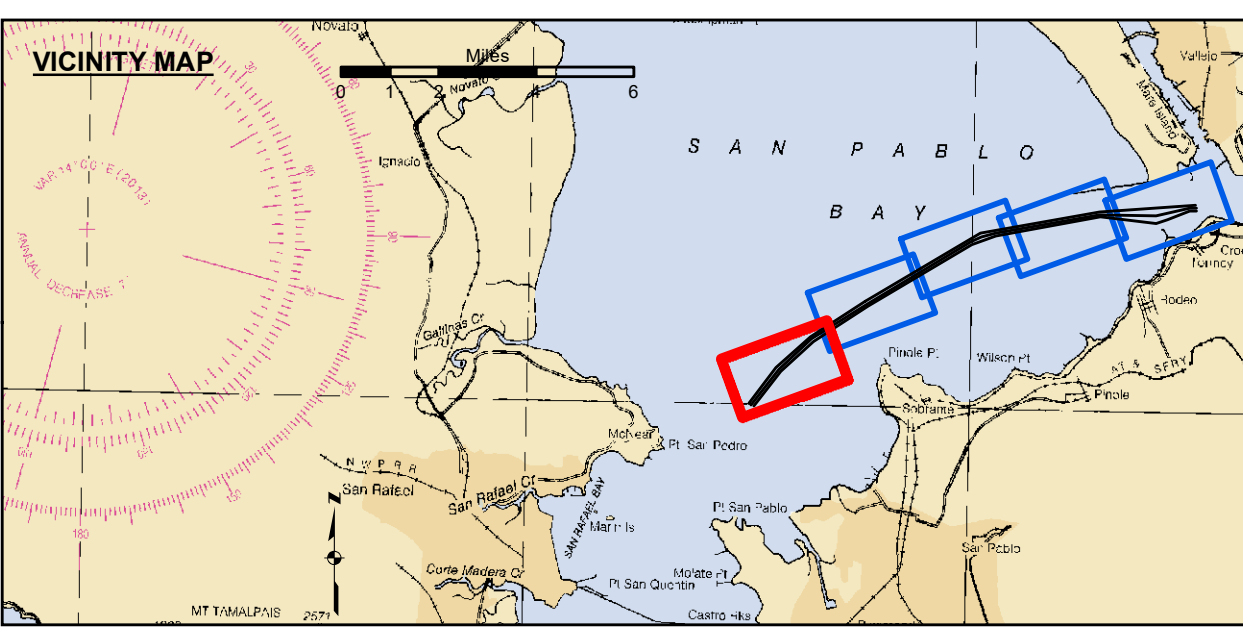
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02	6012570.00	2196164.00
03	6016237.00	2199512.00
04	6022215.00	2203334.00
05	6034692.58	2210763.40
06	6047610.83	2213082.81
07	6058067.95	2213781.27
08	6058127.86	2213182.59
09	6057419.43	2213135.37
10	6055006.55	2212266.87
11	6053815.20	2211848.50
12	6047716.66	2210459.23
13	6038393.66	2210459.23
14	6033802.66	2209535.23
15	6022551.66	2202836.23
16	6016604.00	2199034.00
17	6013013.00	2195756.00
18	6010090.00	2191976.00
C01	6009631.93	2192304.35
C02	6012791.00	2195960.00
C03	6016421.00	2199273.00
C04	6022385.00	2203086.12
C05	6033649.18	2209793.00
C06	6034836.66	2210359.38
C07	6036340.65	2210754.51
C08	6047663.65	2212787.53
C09	6053760.51	2212668.82
C10	6057399.48	2213434.70
C11	6058107.91	2213481.93

San Pablo Bay Channel Light 5



**PRELIMINARY ISSUE**  
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FLOOD →  
← EBB



- 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\*
- Countours
- 35
- 34
- 33
- 32
- 31

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BASE MAPS ARE USDA NAIP 2010.  
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SURVEYED BY THE CORPS OF ENGINEERS.  
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER (MLLW) AT THE LOCALITY AND ARE SHOWN TO THE TENTHS OF A FOOT.  
THE PROJECT DEPTH IS -35 FEET MLLW.  
VERTICAL DATUM:  
MLLW (MEAN LOWER LOW WATER)  
TIDAL EPOCH 1983-2001  
TIDAL DATUM CONTROL STATION(S):  
- 9415056 PINOLE POINT - JUNE 2014  
- 9415218 MARE ISLAND - AUG 2013

HORIZONTAL CONTROL DATUM:  
NAD83(2011) EPOCH 2010.00  
CONTROL:  
POINT PINOLE 4 RESET | PID: JT2895 | BM 5056 A | PID: BBCN55  
OPUS 3/19/2020 | 9415056  
5218 L 1976 | 5218 R 2006  
PID: BBC281 | PID: BBCN57  
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S/V RANDY CUMMINGS  
- RESON T50-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER  
- POS MV 2201 VERS5 HW2.5-12  
- IMU TYPE 42  
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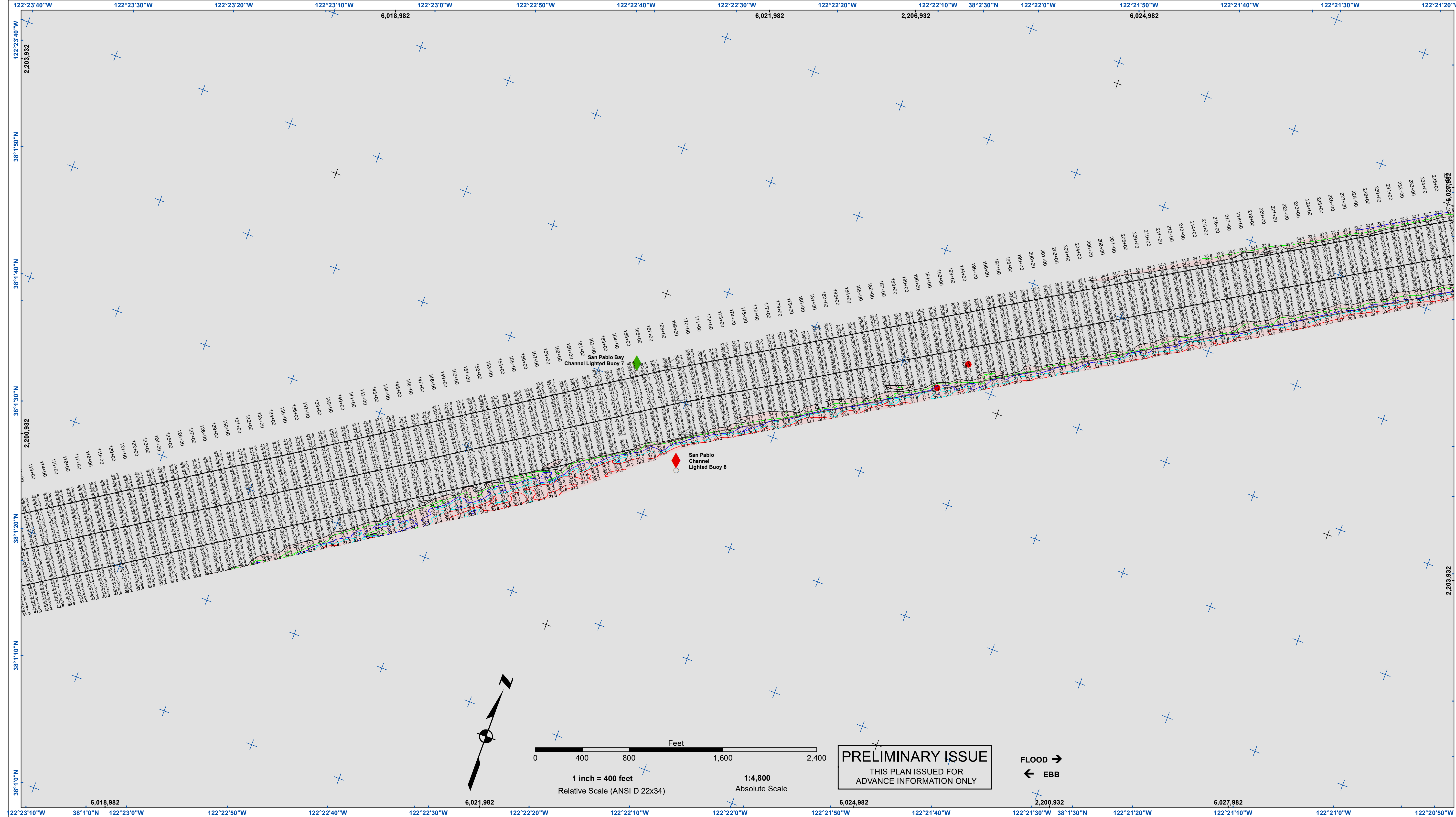
**US Army Corps of Engineers**  
San Francisco District  
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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Aug 06, 2022
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CALIFORNIA  
**PINOLE SHOALS**  
CONDITION SURVEY  
21 JULY 2022

**Sheet**  
**Reference**  
**Number**  
**1 of 5**



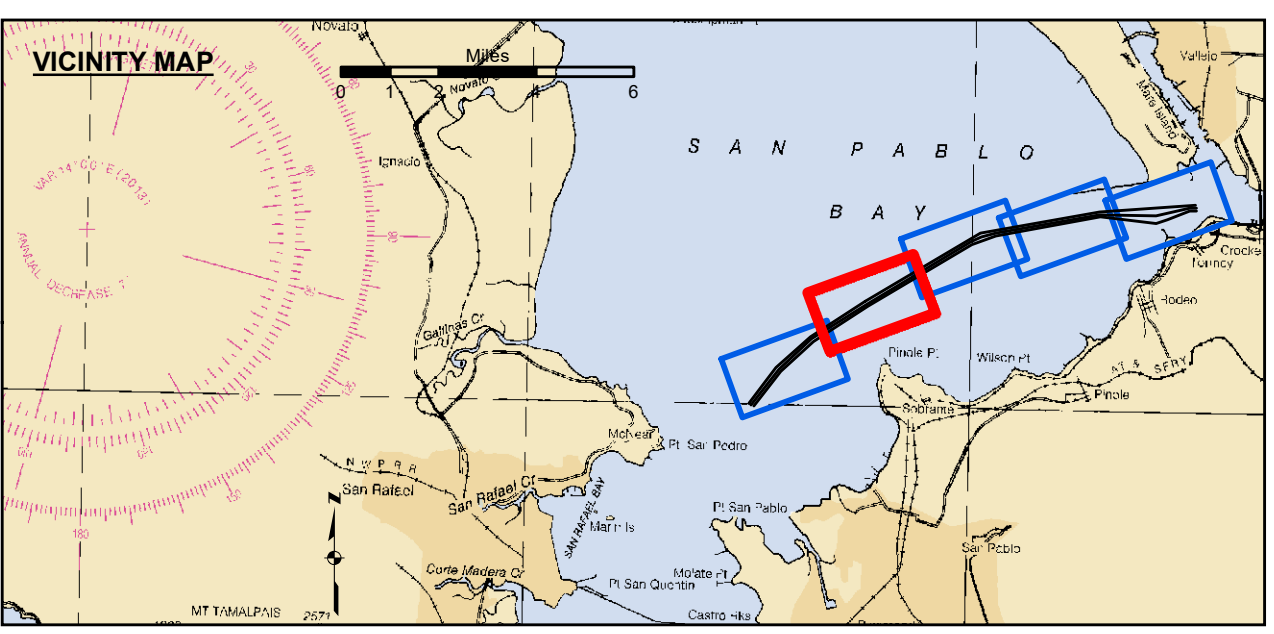
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Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

**CALIFORNIA**  
**SAN PABLO BAY**  
**PINOLE SHOALS**  
**CONDITION SURVEY**  
**21 JULY 2022**

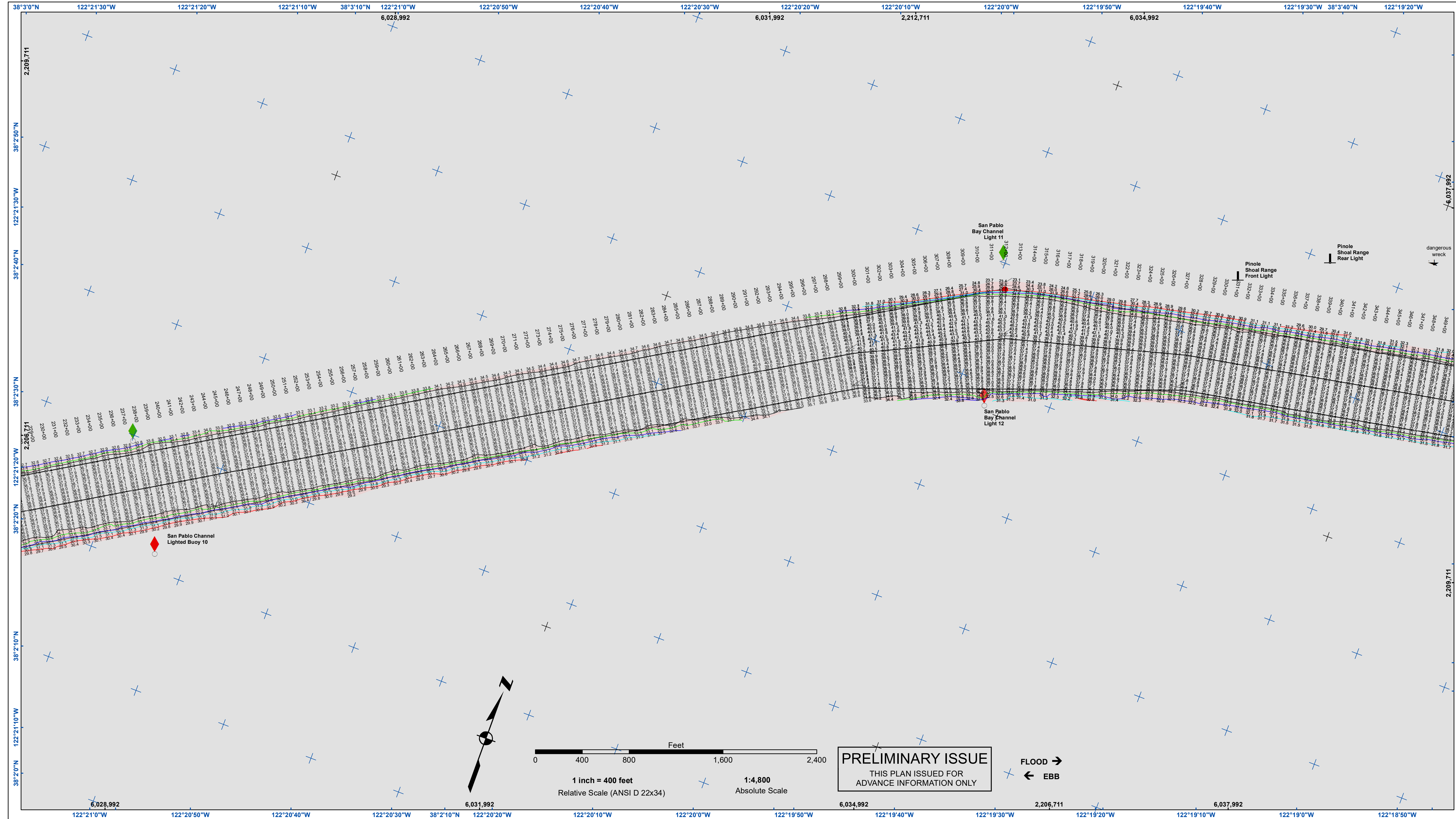
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**Reference**  
**Number**  
**2 of 5**



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
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 SURVEY VESSEL / EQUIPMENT:  
 S/V RANDY CUMMINGS  
 - RESON 150-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER  
 - POS MV 2201 VERS5 HW2.5-12  
 - IMU TYPE 42  
 - TRIMBLE AT1675-540T5 GPS ANTENNA



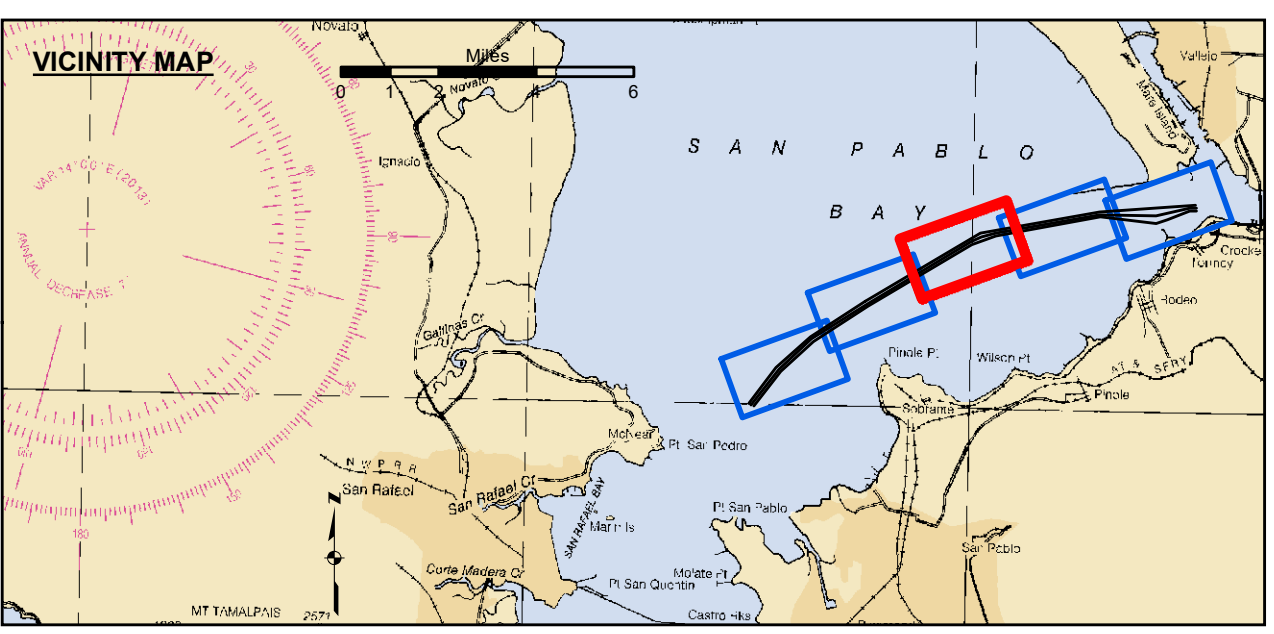
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Prepared Under the Direction of	Chart Date
LT COLONEL C.E. DISTRICT ENGINEER	Aug 06, 2022
Submitted by	Designed by:
Hydro Survey Team Leader	PDT
Recommended by	Checked by:
Chief, Hydro Survey Section	PDT
Approved by	Drawn by:
Chief, Construction Branch	PDT

CALIFORNIA  
**PINOLE SHOALS**  
 CONDITION SURVEY  
 21 JULY 2022

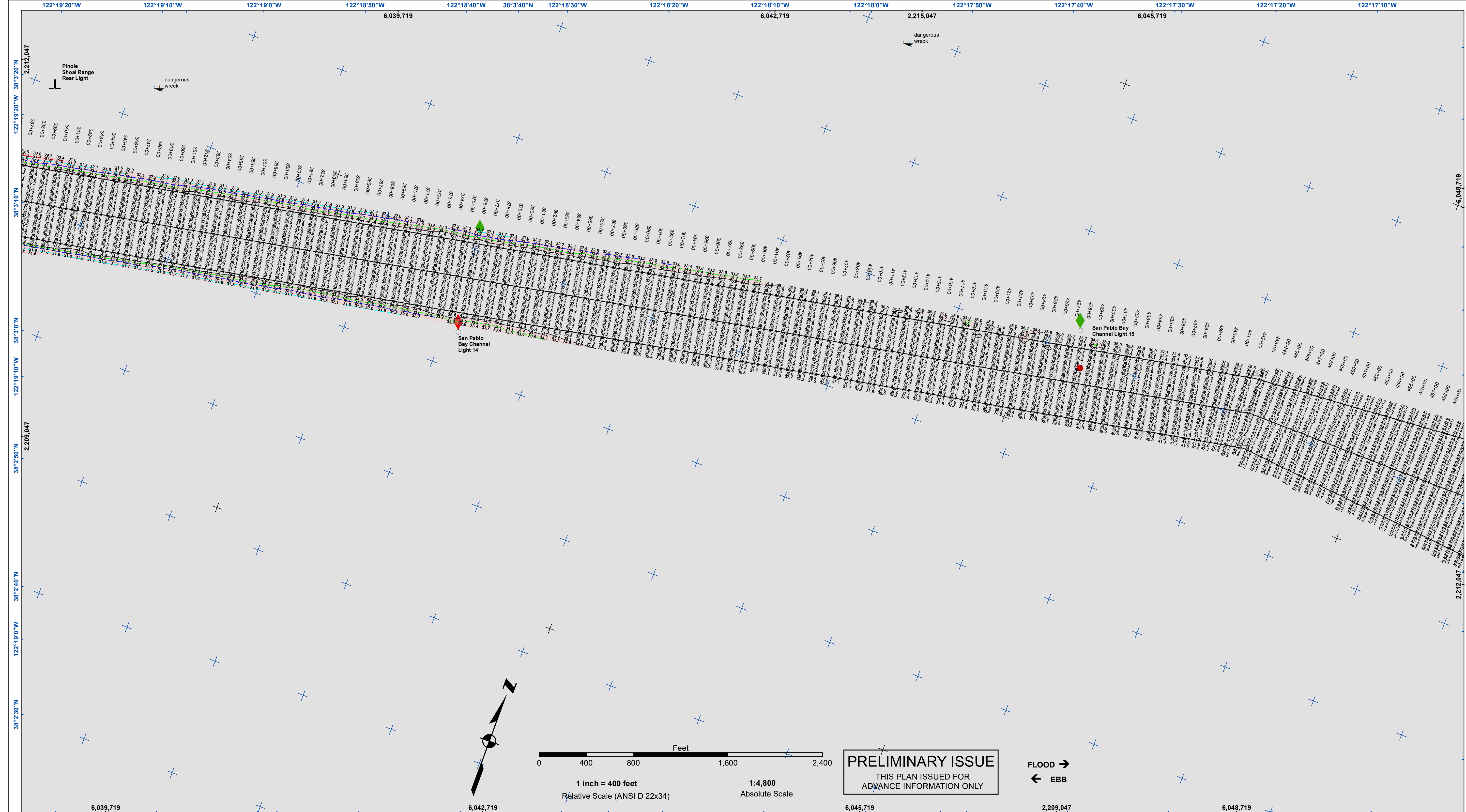
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**Reference**  
**Number**  
**3 of 5**



Federal Navigation Channel	Beacon, General	<b>Countours</b>
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		

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 - POS MV 2201 VER5 HW2.5-12  
 - IMU TYPE 42  
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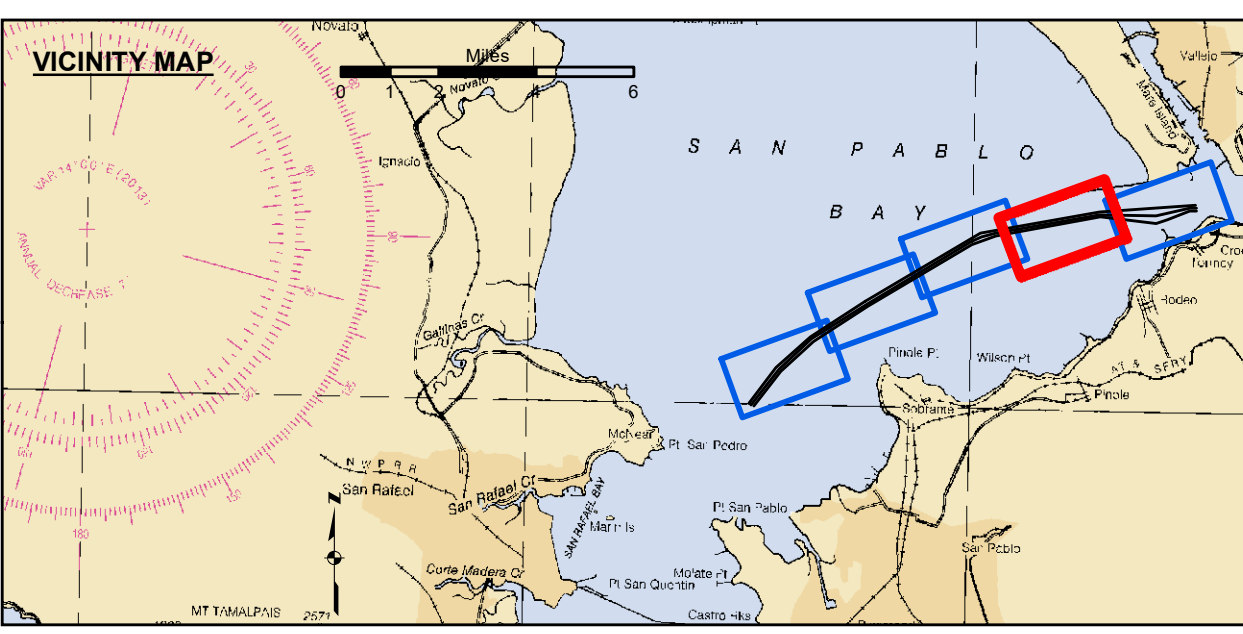
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Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA  
**PINOLE SHOALS**  
 CONDITION SURVEY  
 21 JULY 2022

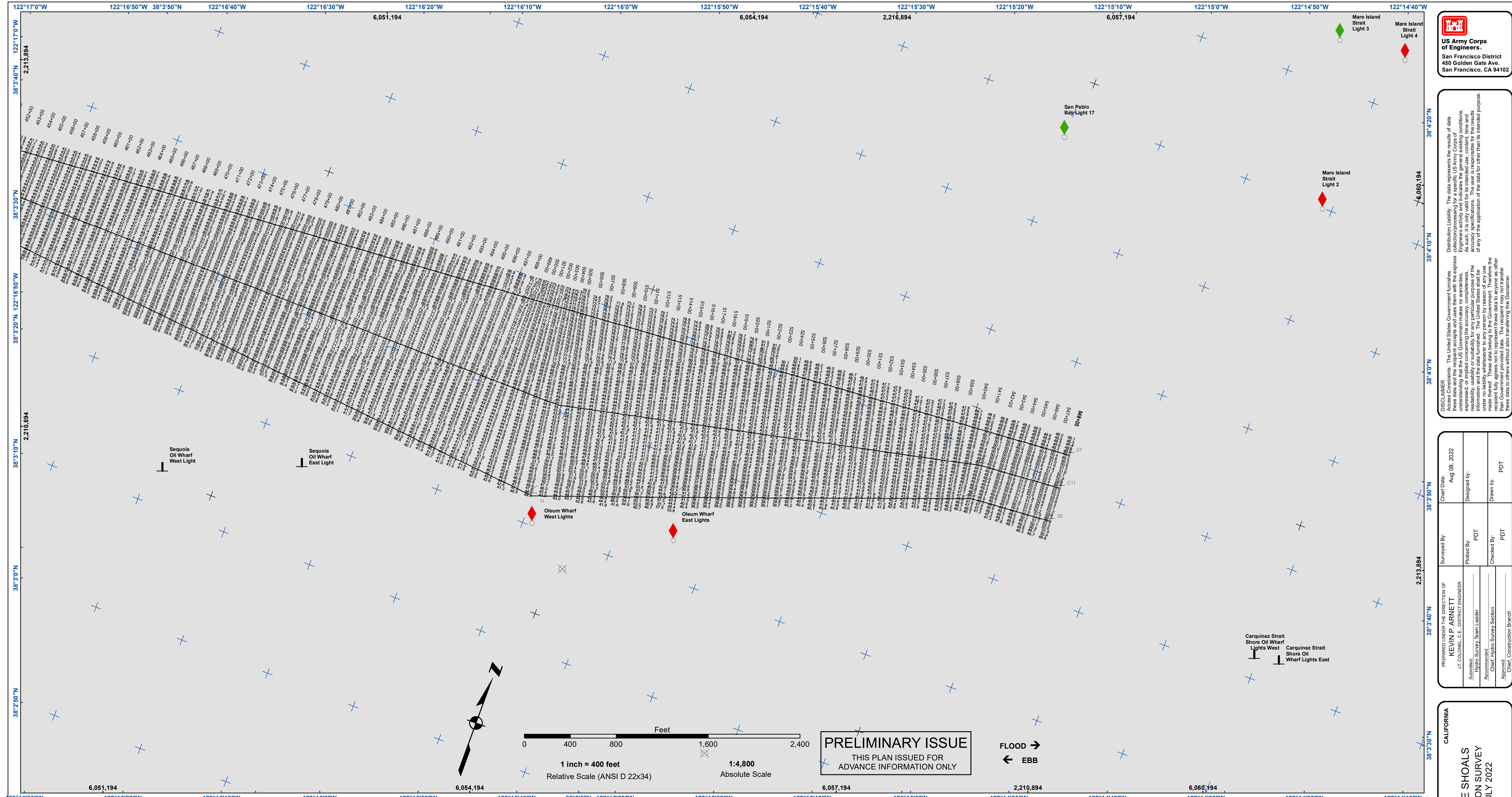
**Sheet**  
**Reference**  
**Number**  
**4 of 5**



- |                            |                    |                 |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General    | <b>Contours</b> |
| 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                |                    |                 |

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 - RESON 750-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER  
 - POS MV 220 VERS 5-12  
 - IMU TYPE 42  
 - TRIMBLE AT1675-540TS GPS ANTENNA



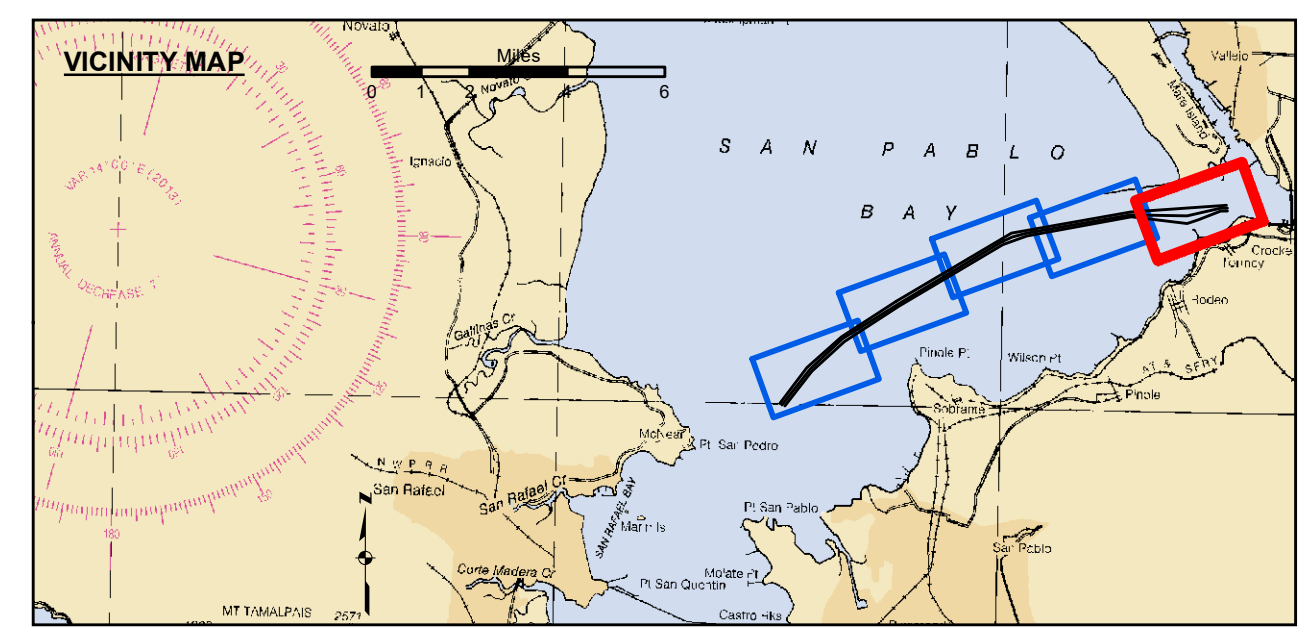
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Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA  
**PINOLE SHOALS**  
 CONDITION SURVEY  
 21 JULY 2022  
 SAN PABLO BAY

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



- |                            |                    |                 |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General    | <b>Contours</b> |
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 - POS MV 220i VER5 HW2-5-12  
 - IMU TYPE 42  
 - TRIMBLE AT1675-540T5 GPS ANTENNA

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FLOOD →  
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