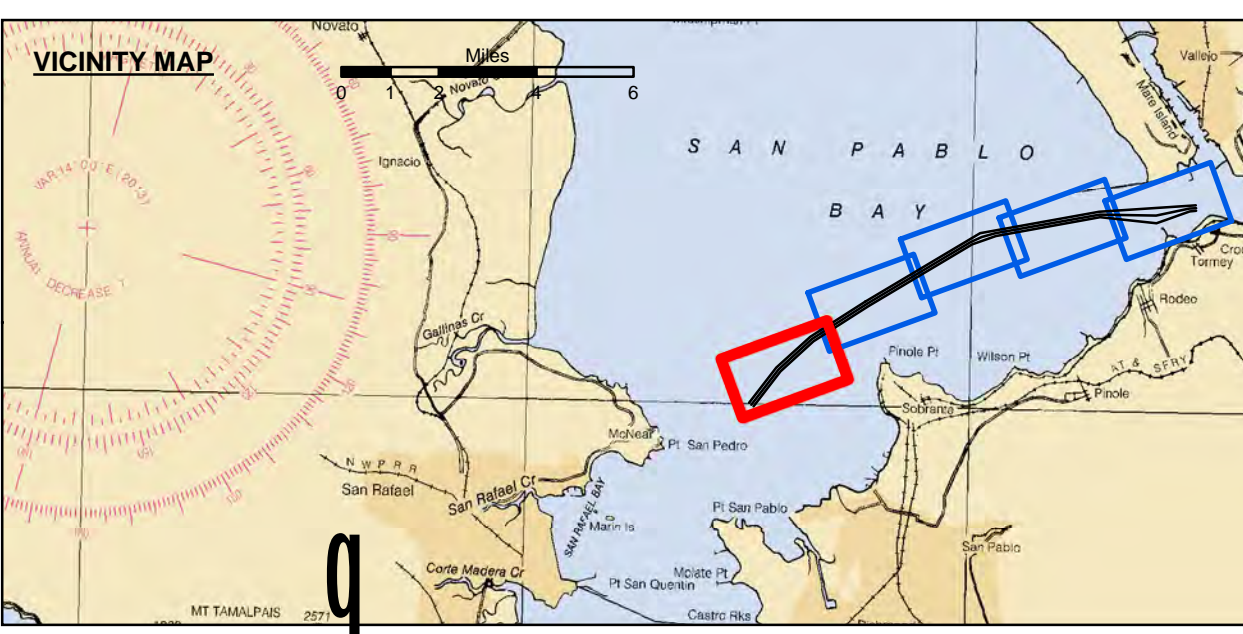


AnglePoint	POINT_X	POINT_Y
01	6009617.00	2192346.00
02	6012570.00	2196164.00
03	6016237.00	2199612.00
04	6022215.00	2203334.00
05	6034692.58	2210763.40
06	6047610.83	2213082.91
07	6058087.95	2213781.27
08	6058127.86	2213182.59
09	6057419.43	2213135.37
10	6055006.55	2212266.87
11	6053815.20	2211848.50
12	6047716.66	2212492.26
13	6036393.66	2210459.23
14	6033802.66	2209535.23
15	6022551.66	2202836.23
16	6016604.00	2199304.00
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	2203066.12
C05	6033649.18	2209793.00
C06	6034836.66	2210359.38
C07	6036340.65	2210754.51
C08	6047663.65	2212787.53
C09	6053760.51	2212666.82
C10	6057399.48	2213434.70
C11	6058107.91	2213461.93

San Pablo Bay Channel Light 5



FLOOD a
b 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

NOTES:
HORIZONTAL COORDINATE SYSTEM:
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BASE MAPS ARE USDA NAIP 2010.
*SHOALEST SOUNDING PER QUARTER PER REACH

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SURVEYED BY THE CORPS OF ENGINEERS.
THE PROJECT DEPTH IS -35 FEET AT MLLW.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
HORIZONTAL GPS CONTROL:
COAST GUARD D-BEACON
VERTICAL CONTROL:
BENCHMARK: 5256 C (1976) USC&GS DISK, ELEV. 34.75 MLLW, NAVD 88 DATUM
TIDE GAUGE LOCATED AT POINT PINOLE PIER.
BENCHMARK: 5218 L (1976) USC&GS DISK, ELEV. 11.00 MLLW, NAVD 88 DATUM
TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.

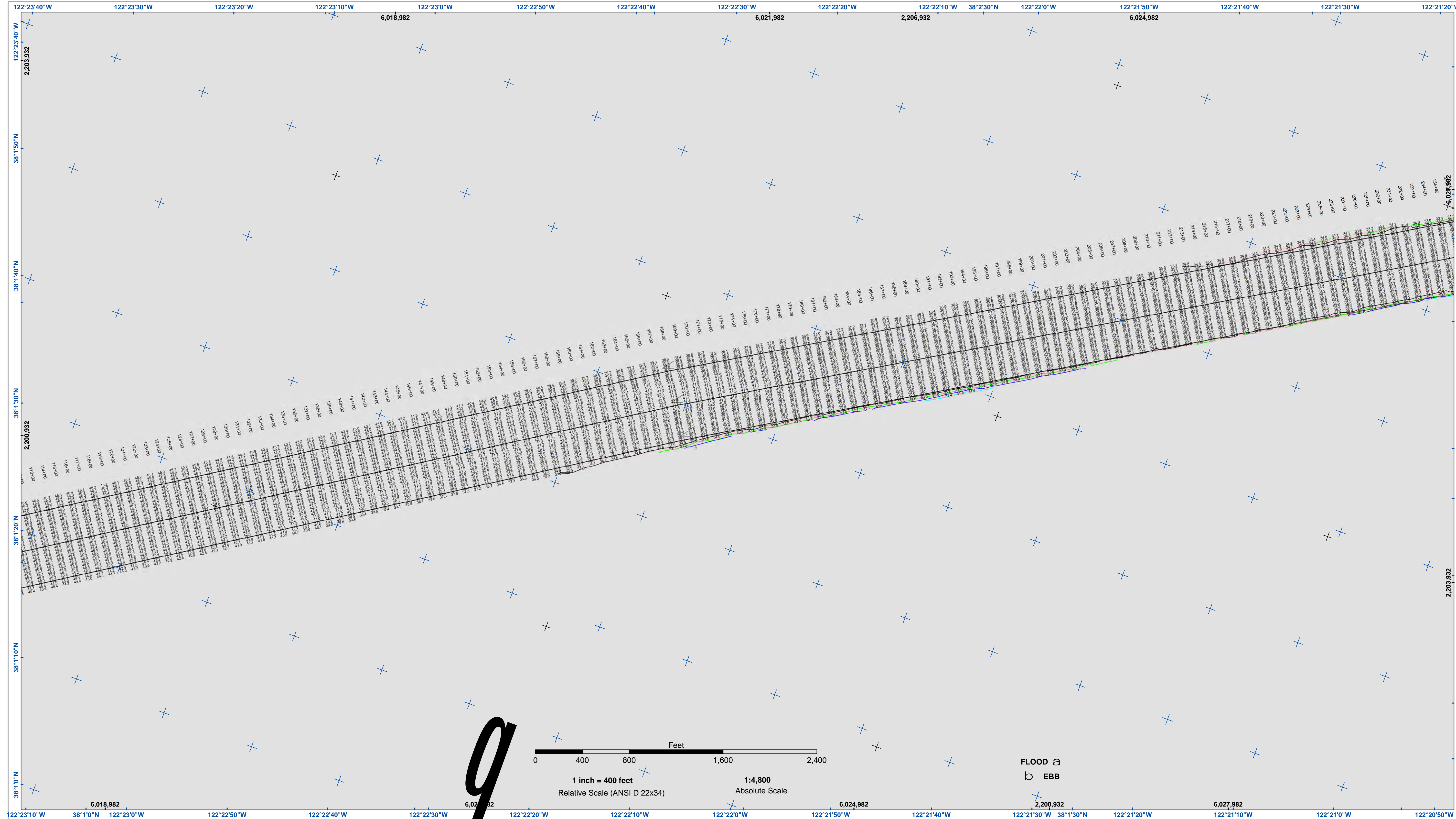
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San Francisco District
1455 Market Street
San Francisco, CA 94103

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Chart Date:	Feb 10, 2017
Designed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT

CALIFORNIA
SAN PABLO BAY
PINOLE SHOALS
CONDITION SURVEY
06 FEBRUARY 2017

Sheet
Reference
Number
1 of 5

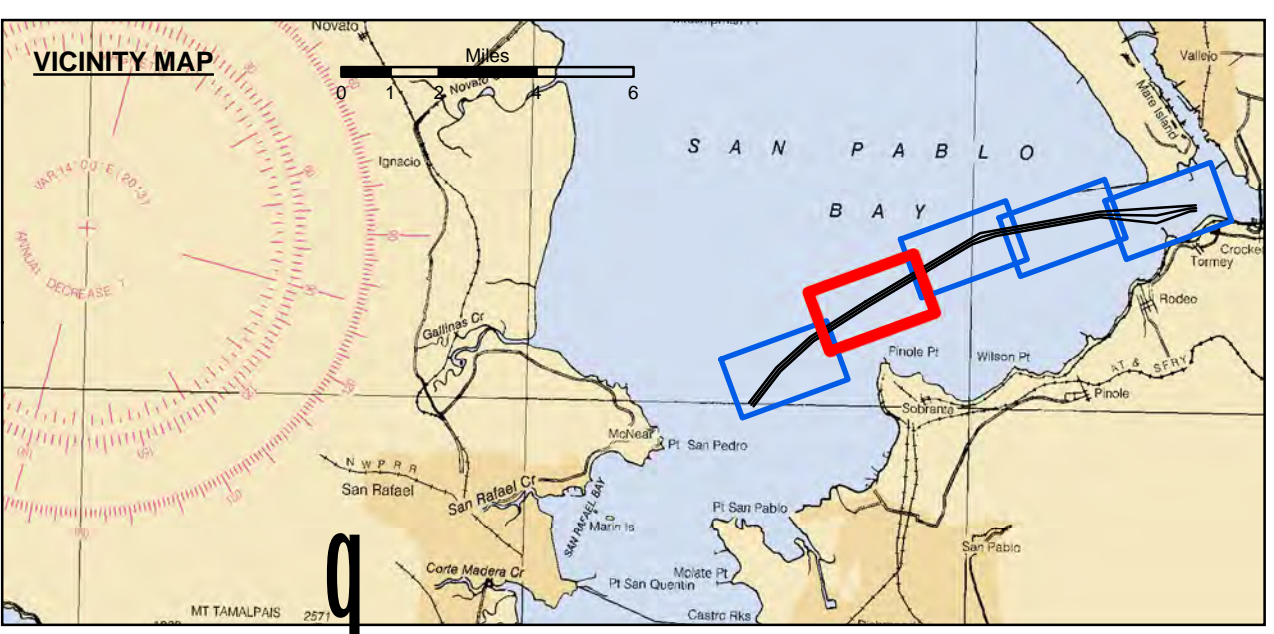


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Chart Date:	Feb 10, 2017
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	JOHN C. MORROW
Plotted By:	PDT
Flatted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
 SAN PABLO BAY
PINOLE SHOALS
 CONDITION SURVEY
 06 FEBRUARY 2017

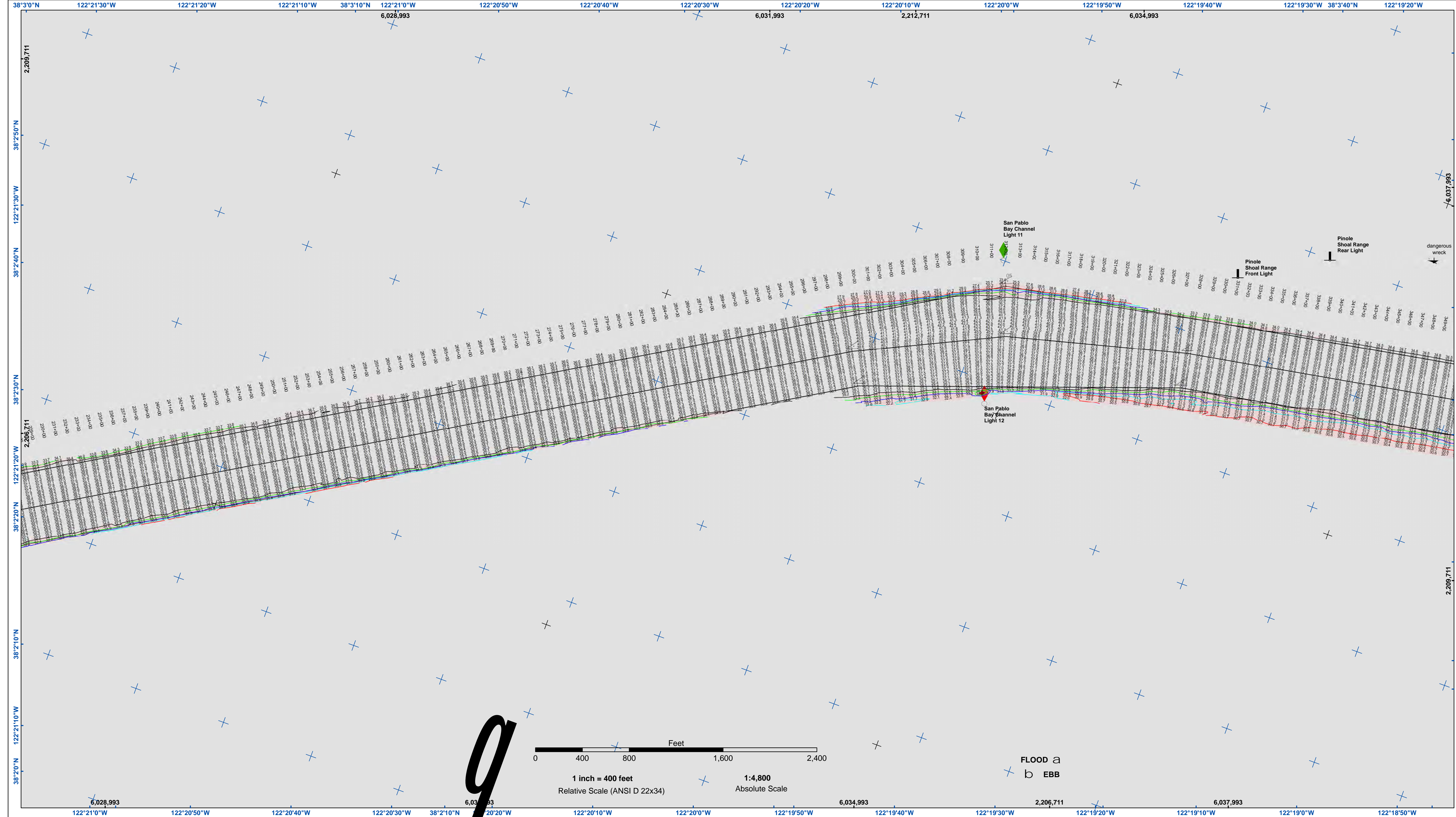
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Number
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	Federal Navigation Channel		Beacon, General		Countours
	Shoaling Area		Obstruction Point		-35
	Placement Area		Navigation Buoy		-34
	Anchorage Area		Navigation Buoy		-33
	Wreck Area		Shoalest Sounding*		-32
	Submerged Wreck				-31
	Angle Point				

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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 HORIZONTAL GPS CONTROL:
 COAST GUARD D-BEACON
 VERTICAL CONTROL:
 BENCHMARK "5256 C" (1976) USC&GS DISK, ELEV. 34.75 MLLW, NAVD 88 DATUM
 TIDE GAUGE LOCATED AT POINT PINOLE PIER.
 BENCHMARK "5218 L" (1976) USC&GS DISK, ELEV. 11.00 MLLW, NAVD 88 DATUM
 TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.



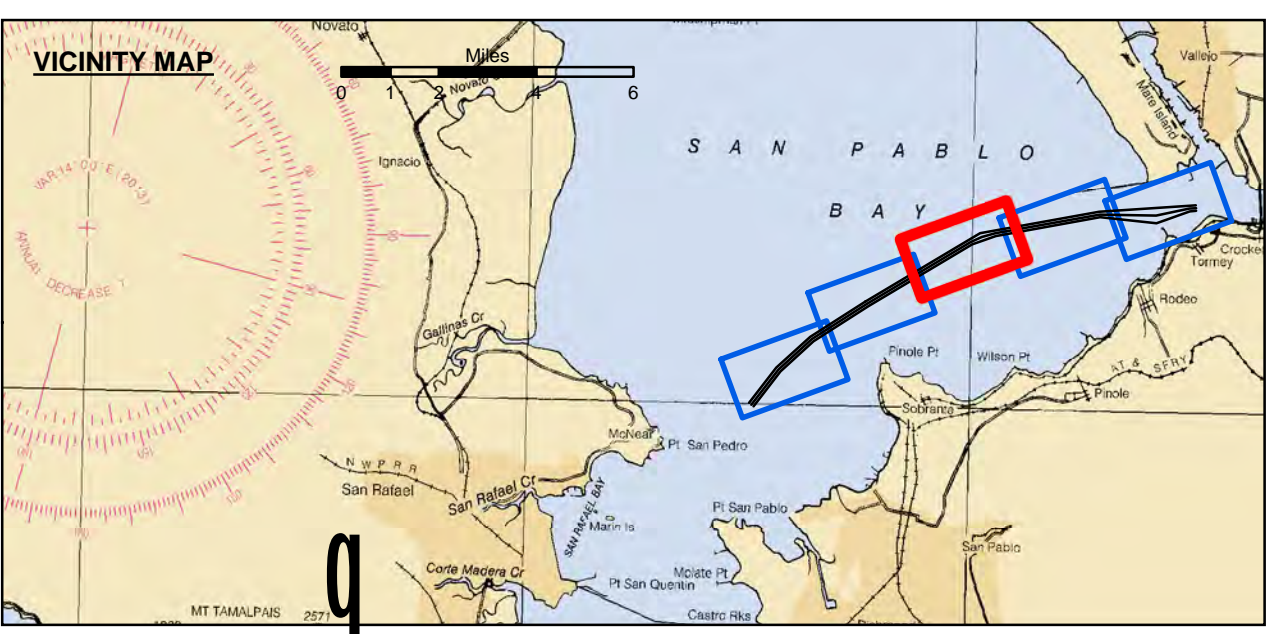
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Chart Date:	Feb 10, 2017
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	Plotted By: PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 06 FEBRUARY 2017
 SAN PABLO BAY

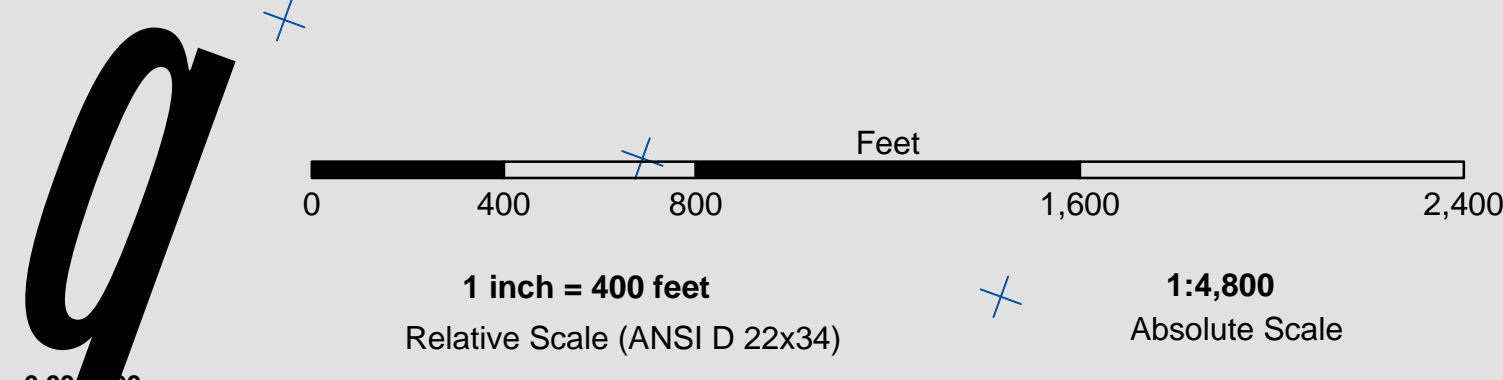
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Reference
Number
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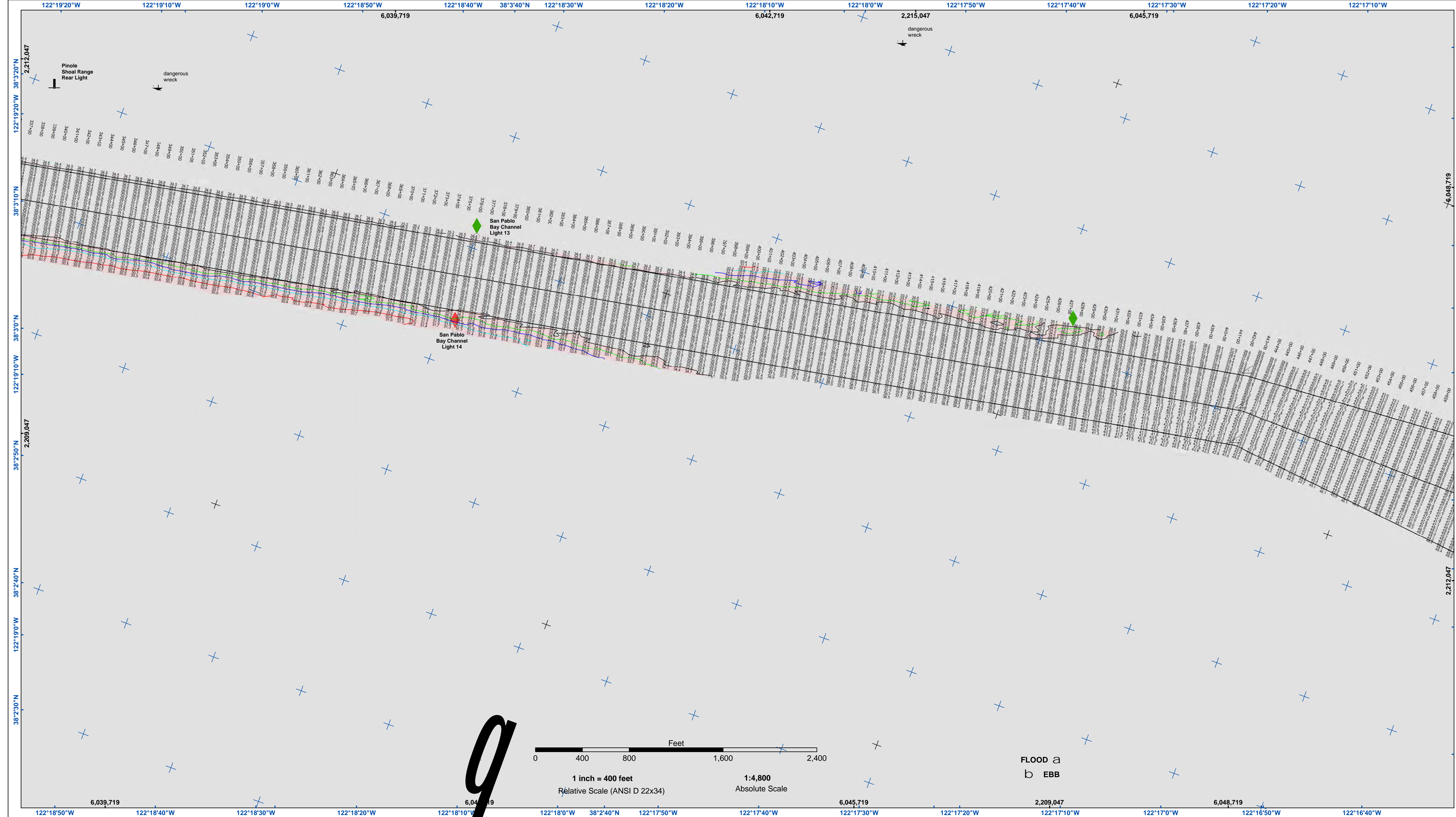
- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
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 COAST GUARD D-BEACON
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 TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.



FLOOD a
 b EBB



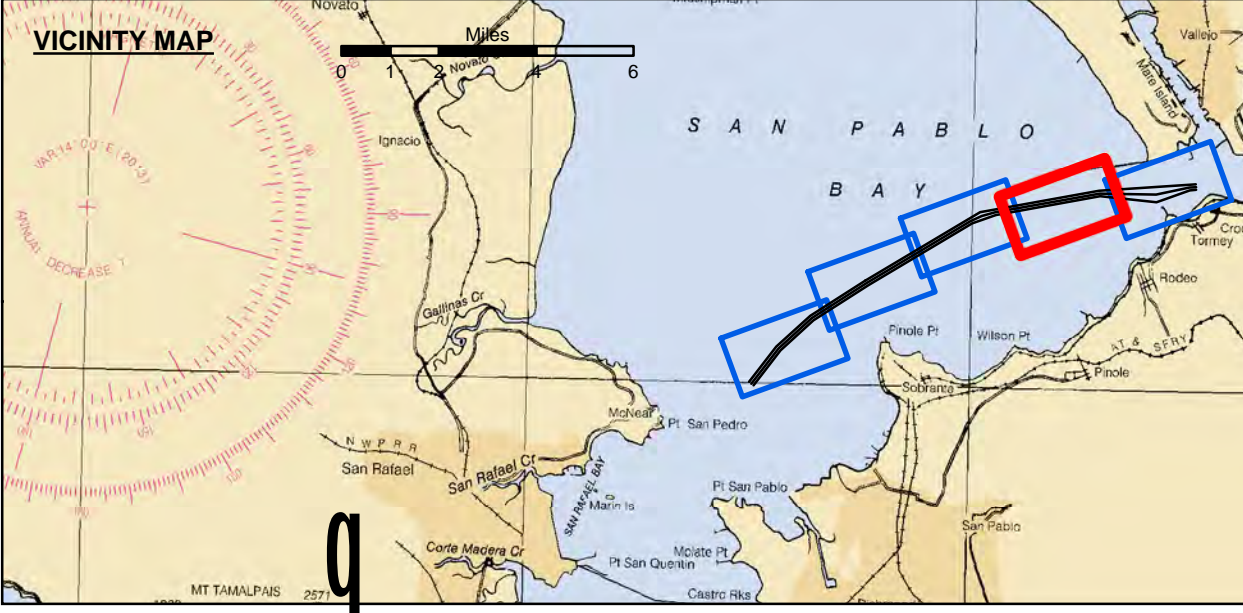
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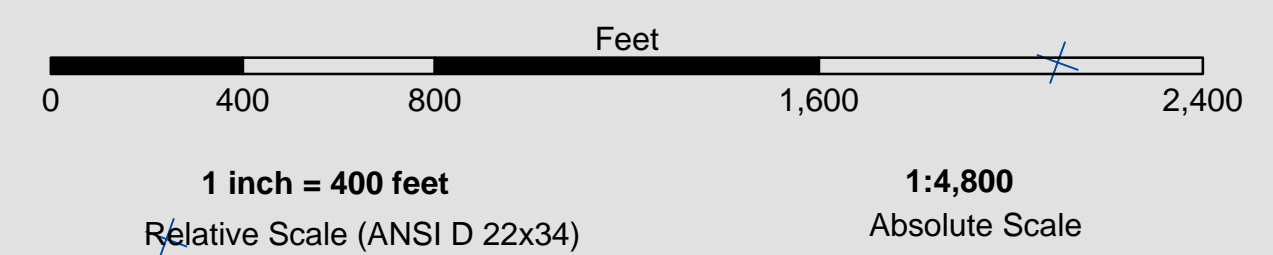
Prepared Under the Direction of JOHN C. MORROW LT Colonel, C.E., District Engineer	Chart Date: Feb 10, 2017
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 06 FEBRUARY 2017
 SAN PABLO BAY

Sheet Reference Number
 4 of 5



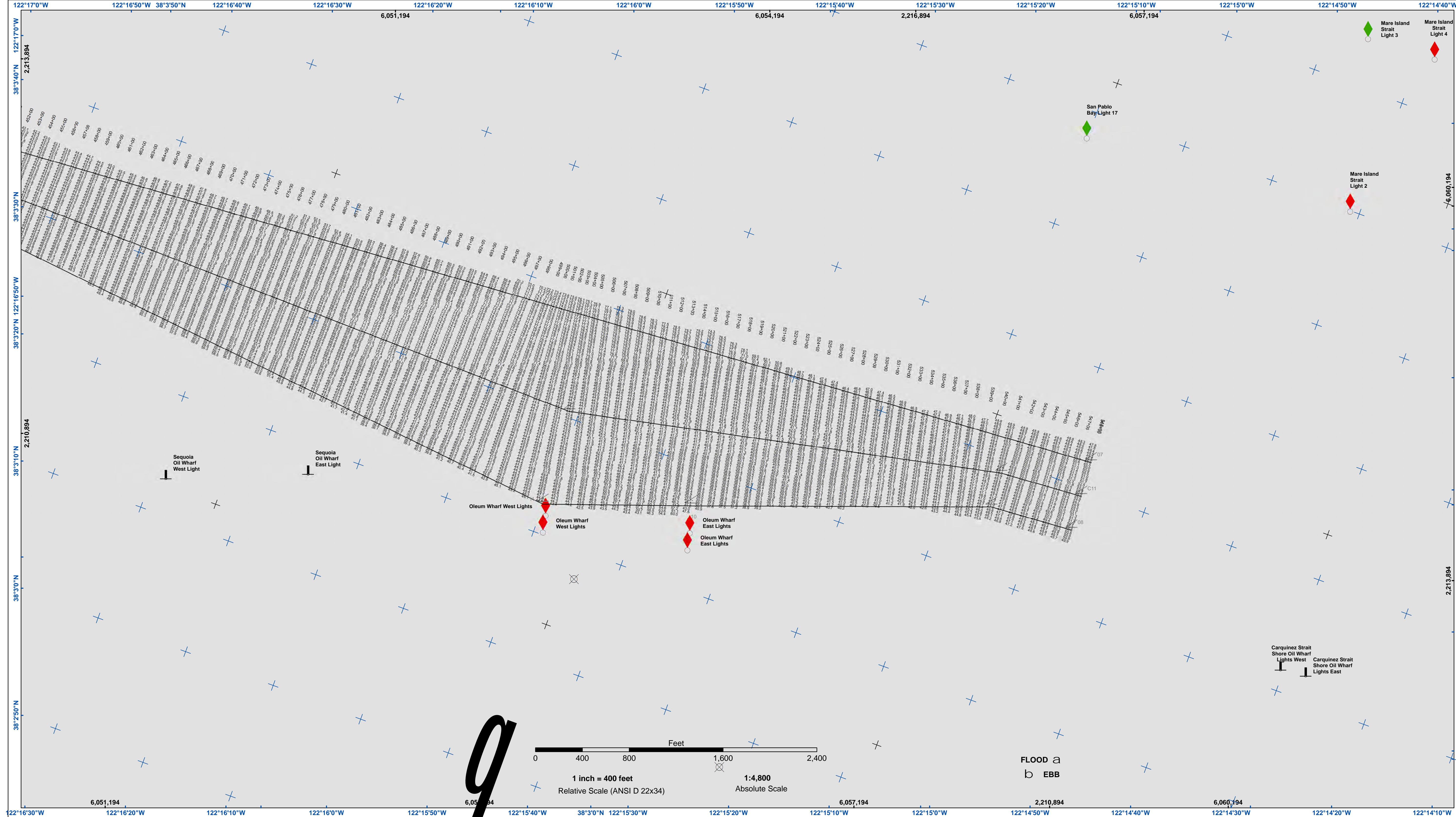
- | | | |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -35 |
| Placement Area | Navigation Buoy | -34 |
| Anchorage Area | Navigation Buoy | -33 |
| Wreck Area | Shoalest Sounding* | -31 |
| Submerged Wreck | | |
| Angle Point | | |



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FLOOD a
 b EBB



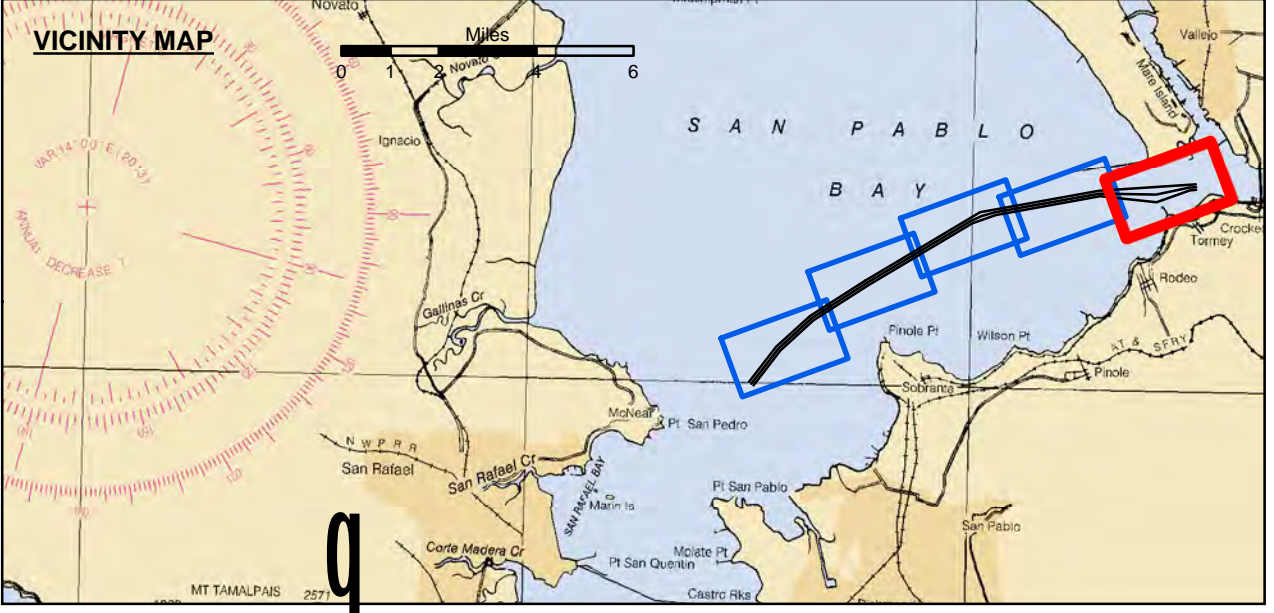
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Chart Date:	Feb 10, 2017
Designed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 06 FEBRUARY 2017
 SAN PABLO BAY

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Reference
Number
5 of 5



- | | | |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -35 |
| Placement Area | Navigation Buoy | -34 |
| Anchorage Area | Navigation Buoy | -33 |
| Wreck Area | Navigation Buoy | -32 |
| Submerged Wreck | Shoalest Sounding* | -31 |
| Angle Point | | |

NOTES:
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