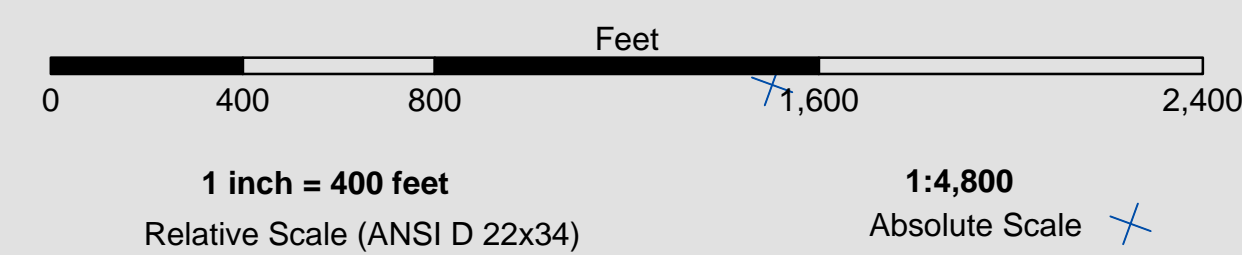


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04	6022215.00	2203334.00
05	6034692.58	2210763.40
06	6047610.83	2213082.81
07	6058067.95	2213781.27
08	6058127.86	2213182.59
09	6057419.43	2213135.37
10	6055006.55	2212266.87
11	6053815.20	2211848.50
12	6047716.66	2210492.26
13	6036393.66	2210459.23
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

Pinole
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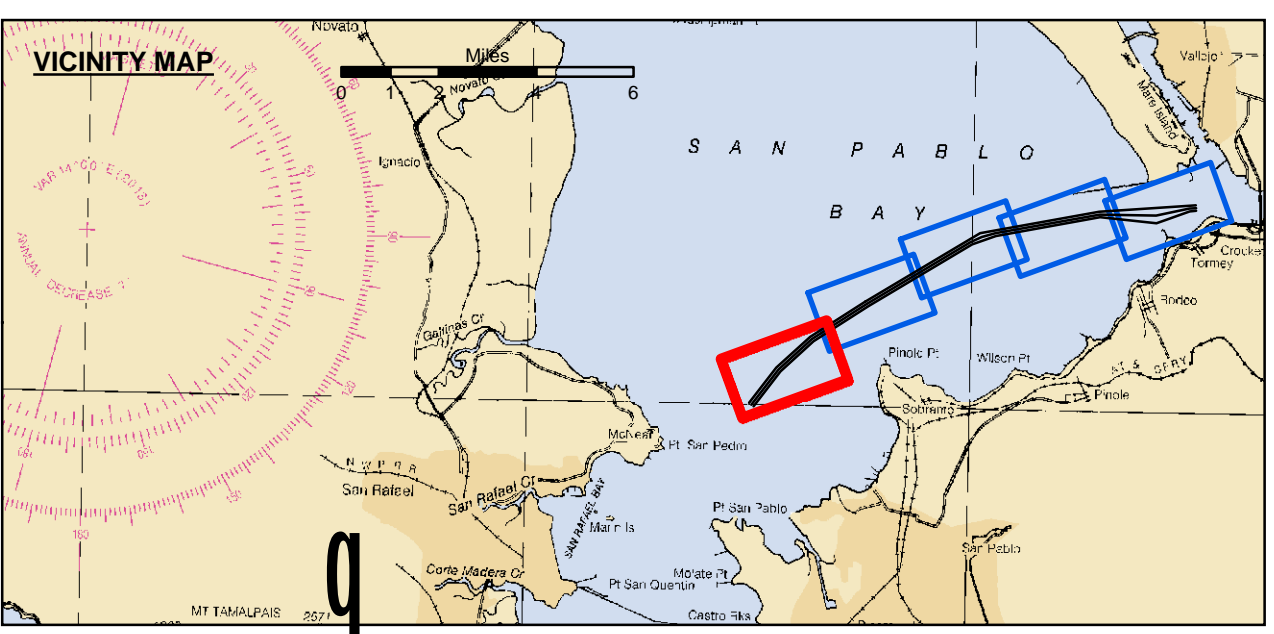
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Chart Date:	May 11, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	Plotted By:
Flatted By:	PDT
Checked By:	PDT
Drawn by:	PDT



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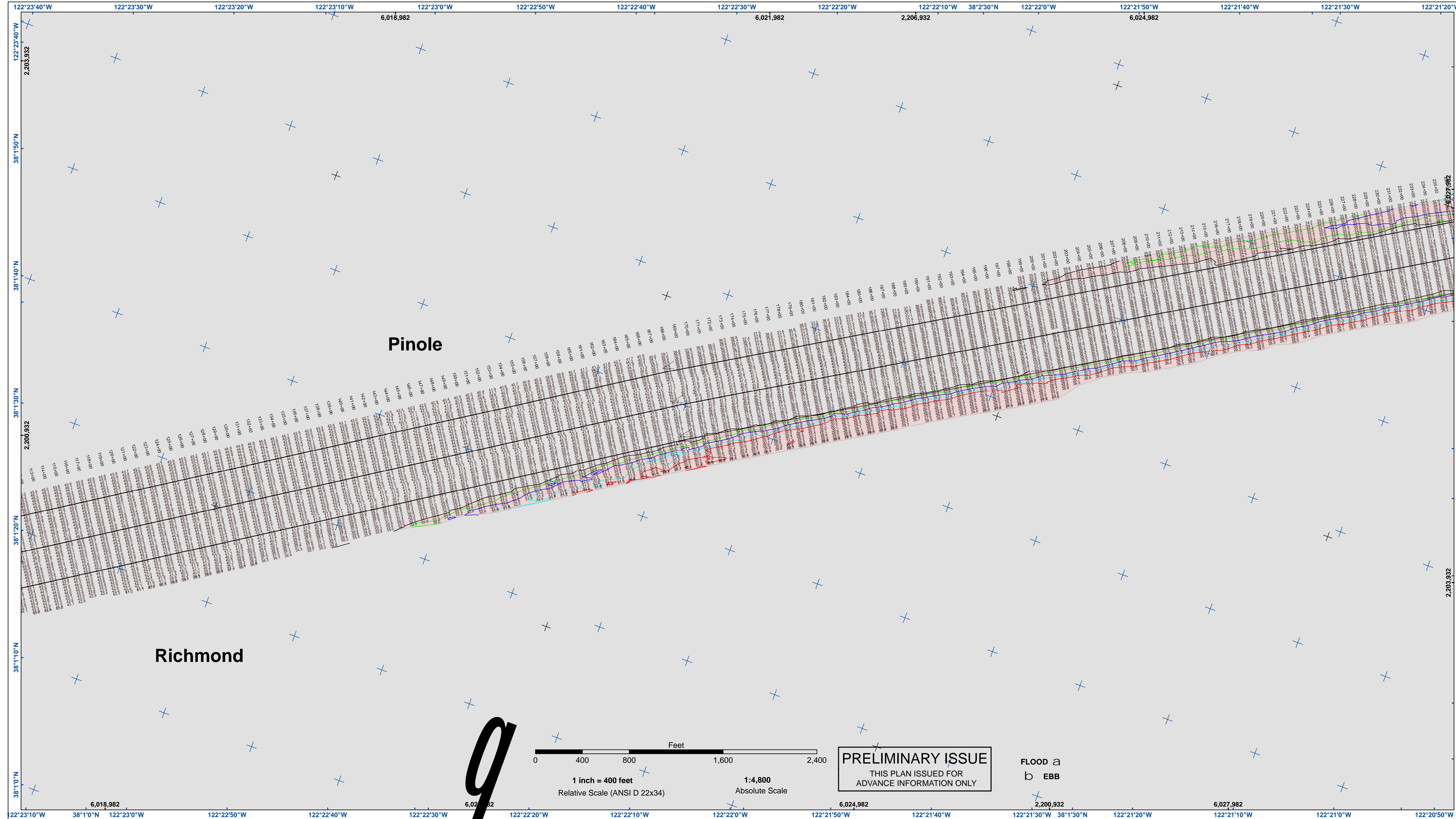
- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Countours
- 35
- 34
- 33
- 32
- 31

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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 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
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CALIFORNIA
 SAN PABLO BAY
 PINOLE SHOALS
 CONDITION SURVEY
 19, 21 & 28 APRIL 2016

Sheet
 Reference
 Number
1 of 5



US Army Corps of Engineers
 San Francisco District
 1455 Market Street
 San Francisco, CA 94103

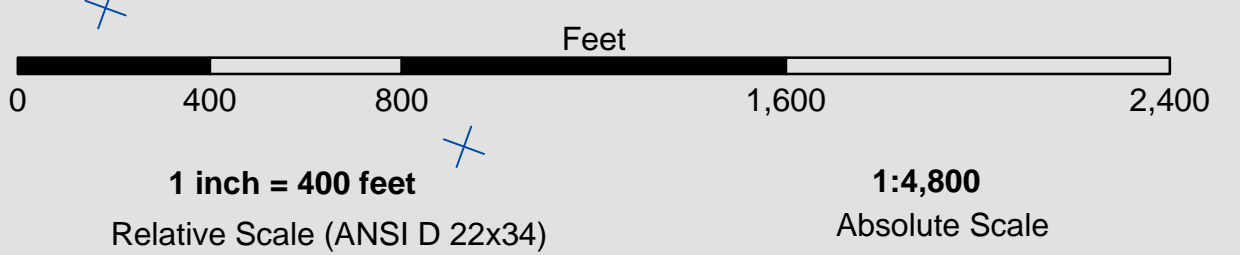
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Chart Date:	May 11, 2016
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	Plotted By: PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 19, 21 & 28 APRIL 2016

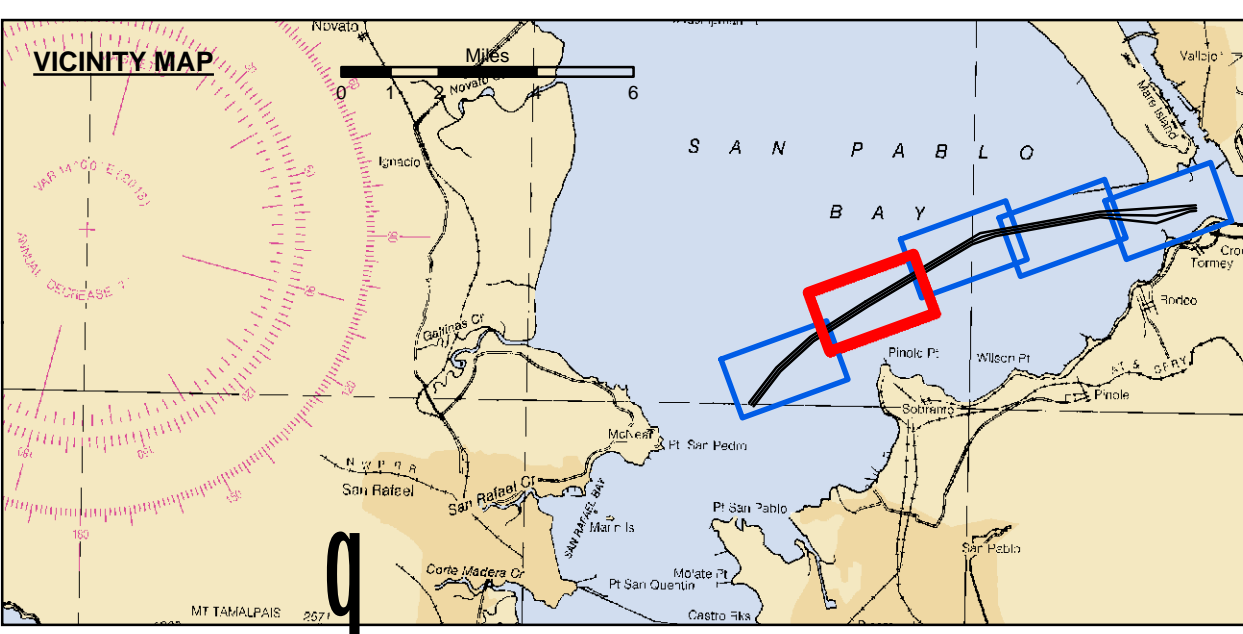
Sheet Reference Number
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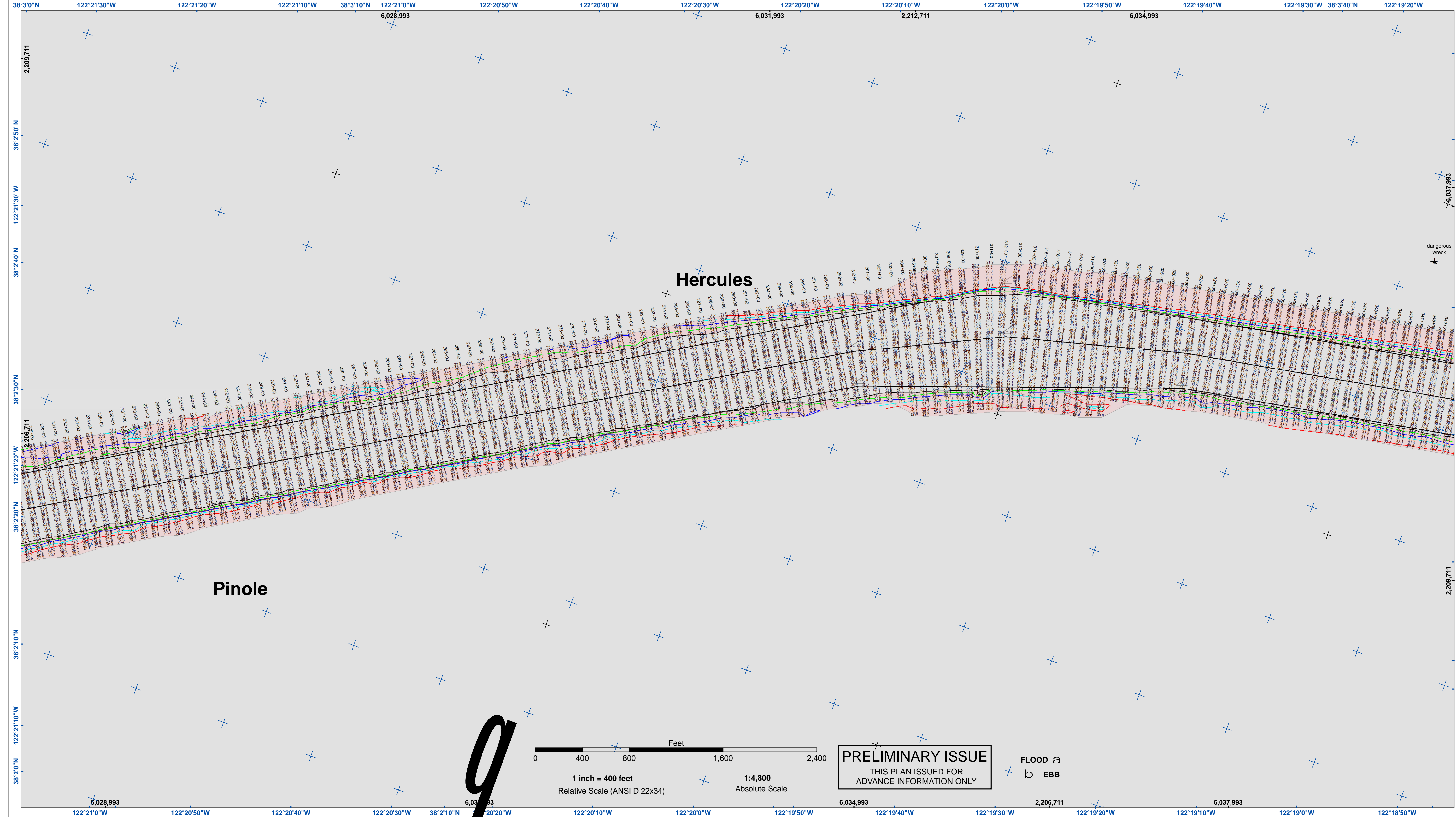
FLOOD a
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	Federal Navigation Channel		Beacon, General		Contours
	Shoaling Area		Obstruction Point		-35
	Placement Area		Navigation Buoy		-34
	Anchorage Area		Navigation Buoy		-33
	Wreck Area		Shoalest Sounding*		-32
	Submerged Wreck				-31
	Angle Point				

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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.

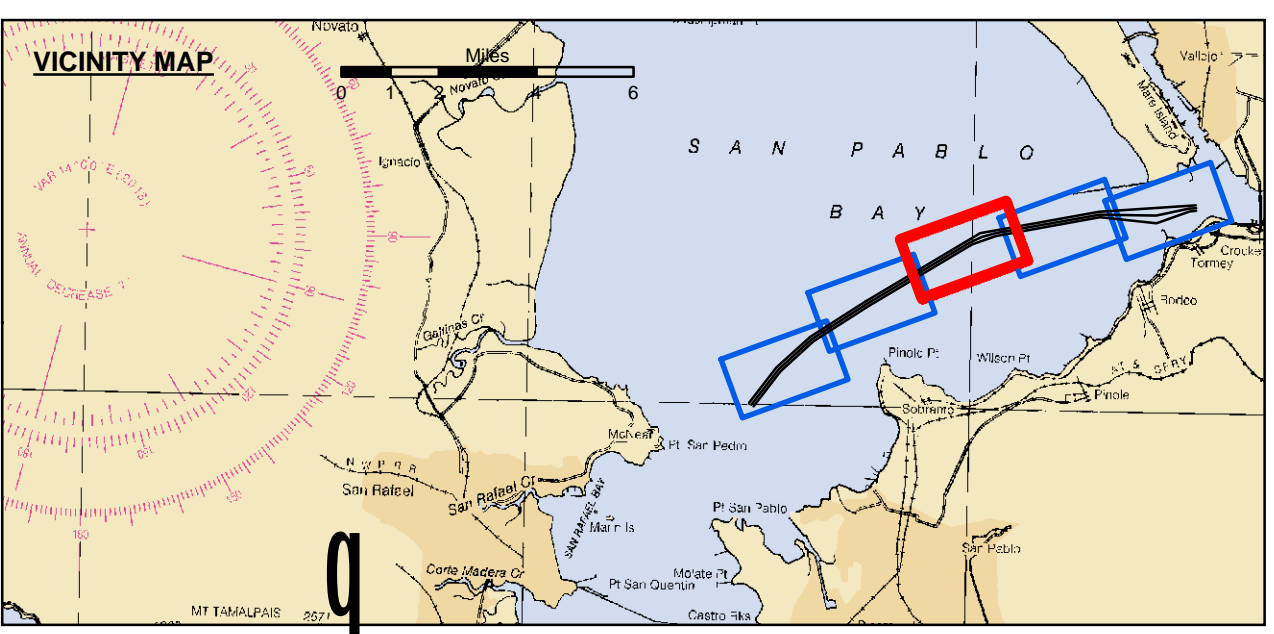


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Chart Date:	May 11, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Plotted By:	PDT
Surveyed By:	JOHN C. MORROW
Prepared Under the Direction of:	JOHN C. MORROW

CALIFORNIA
PINOLE SHOALS
CONDITION SURVEY
19, 21 & 28 APRIL 2016



- 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
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NOTES:
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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:
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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.

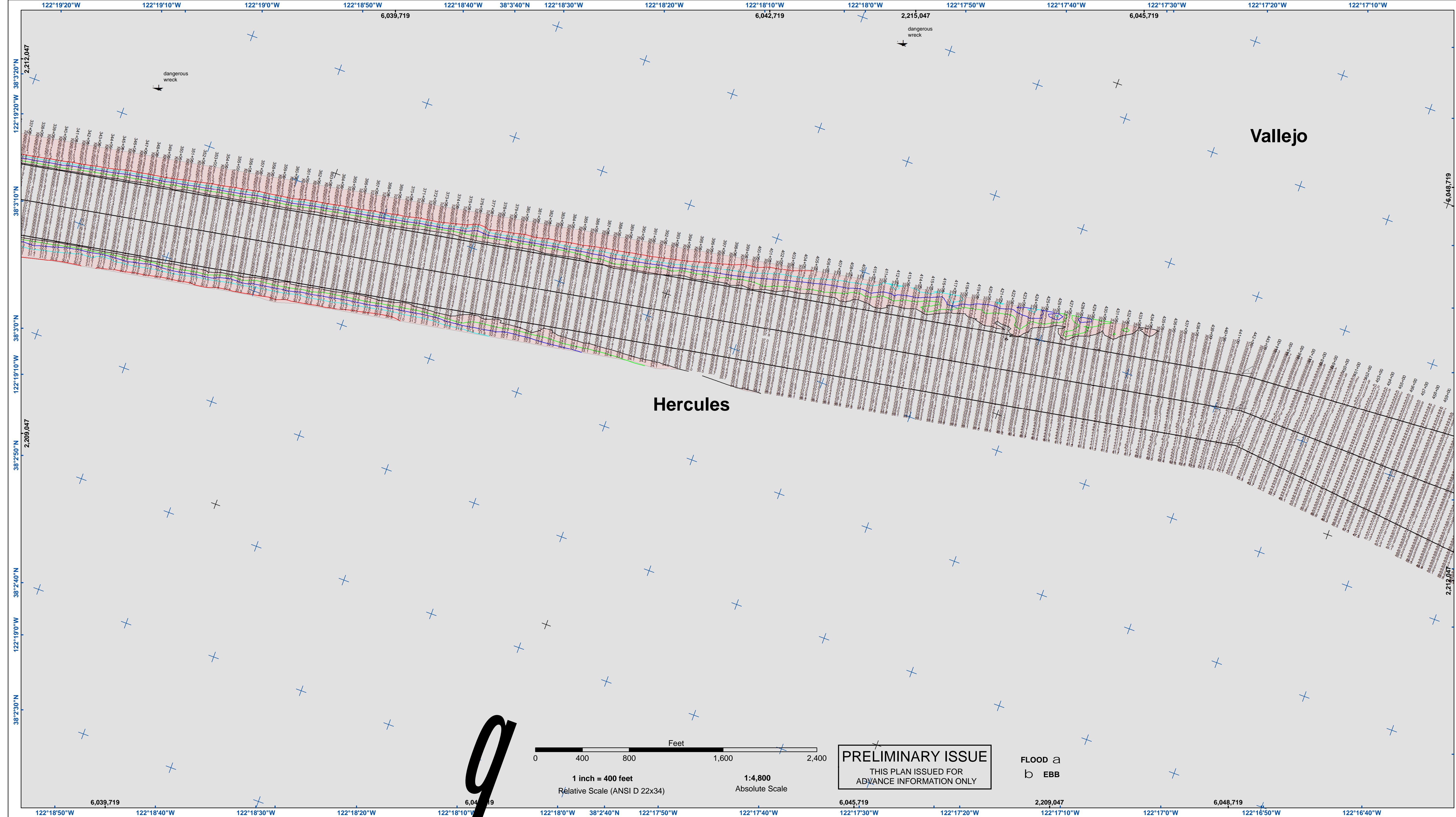
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

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.

Sheet Reference Number
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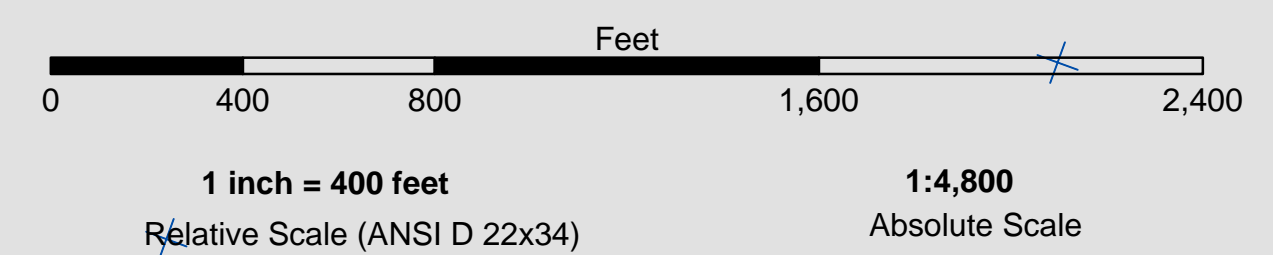
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Prepared Under the Direction of JOHN C. MORROW LT Colonel, C.E., District Engineer	Chart Date: May 11, 2016
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 19, 21 & 28 APRIL 2016

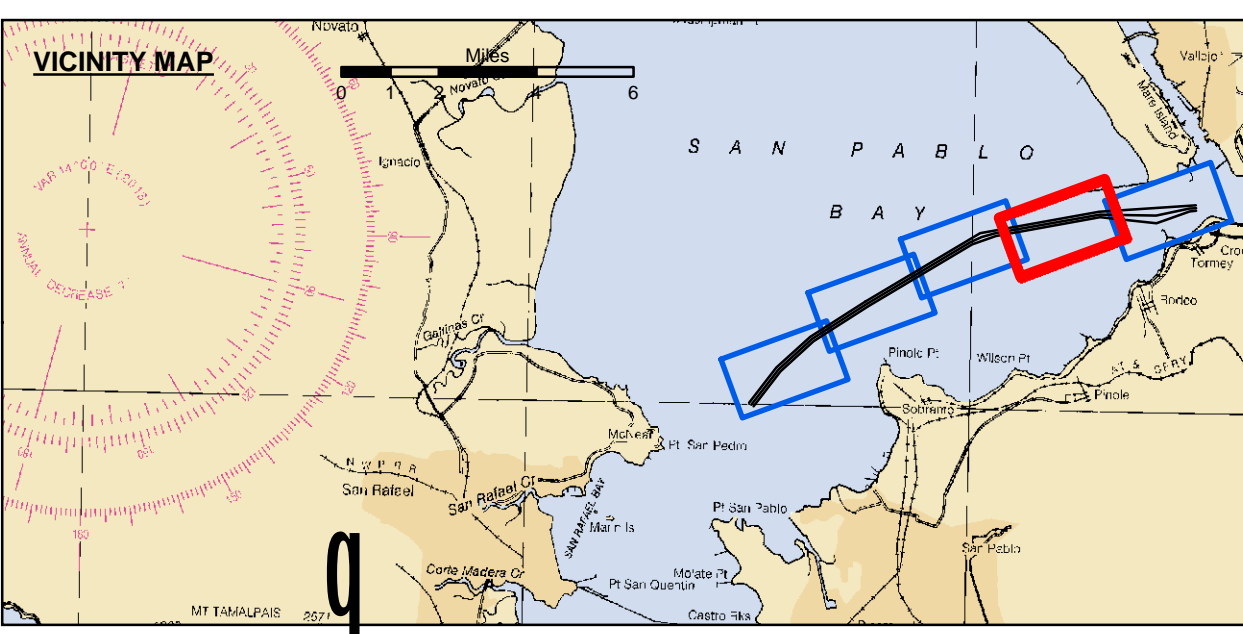
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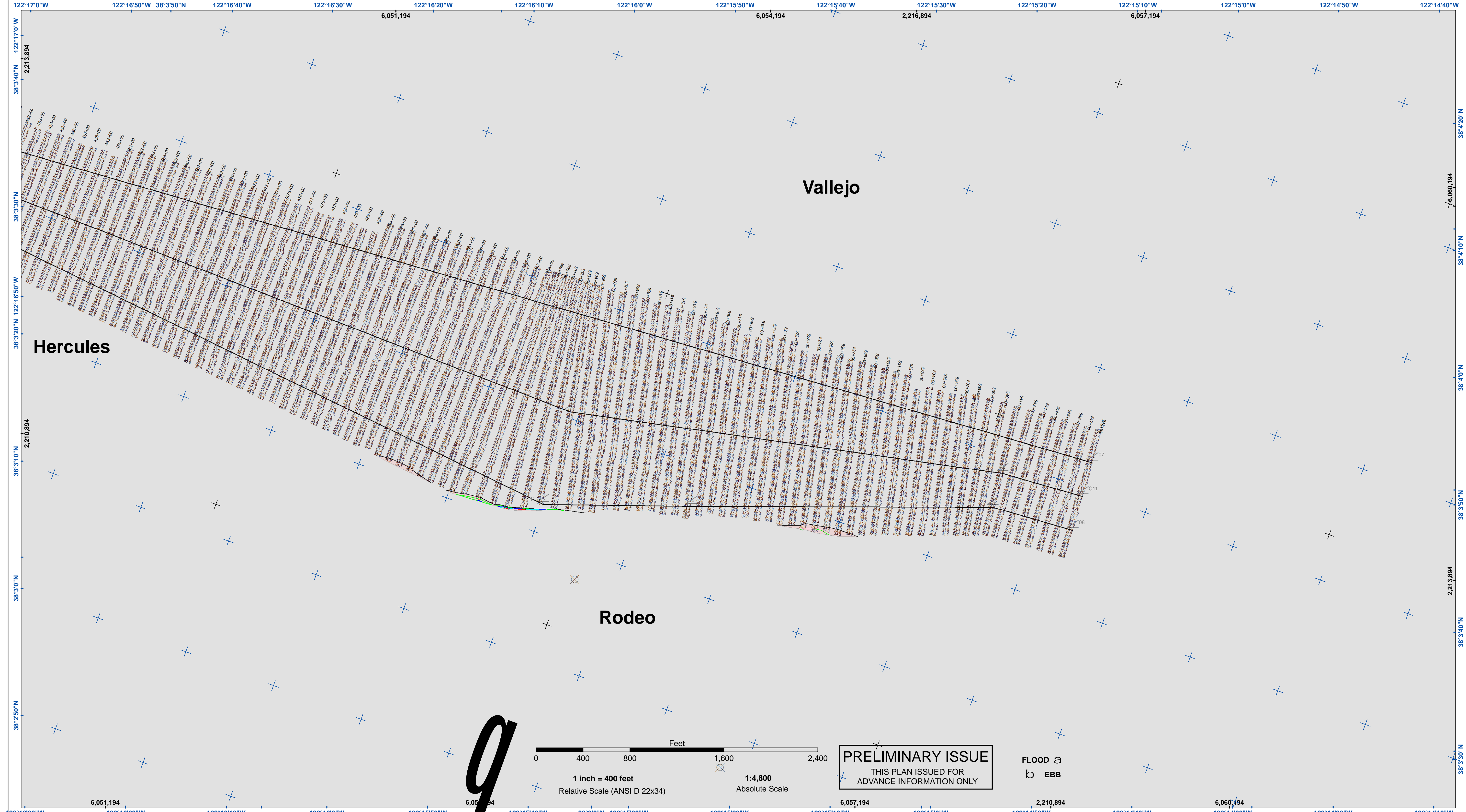
FLOOD a
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- | | | |
|----------------------------|--------------------|-----------|
| Federal Navigation Channel | Beacon, General | Countours |
| Shoaling Area | Obstruction Point | -35 |
| Placement Area | Navigation Buoy | -34 |
| Anchorage Area |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

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 BENCHMARK "2218 L" (1976) USC&GS DISK, ELEV. 11.00 MLLW, NAVD 88 DATUM
 TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.

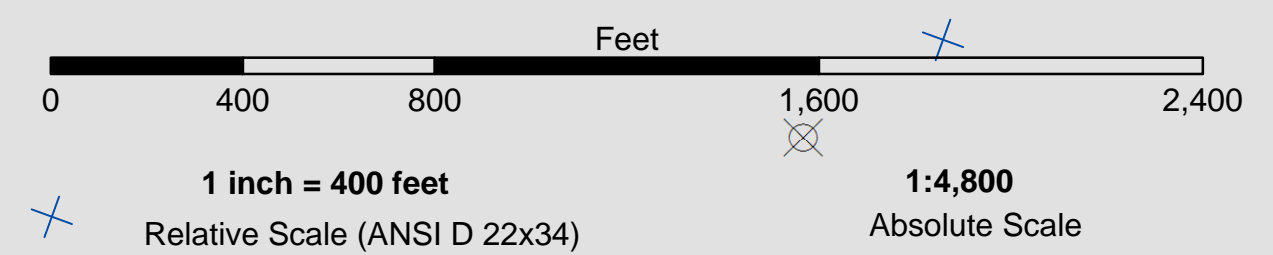


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Chart Date:	May 11, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	Plotted By: PDT
Prepared Under the Direction of:	LT COLONEL C.E. MORROW
Submitted:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

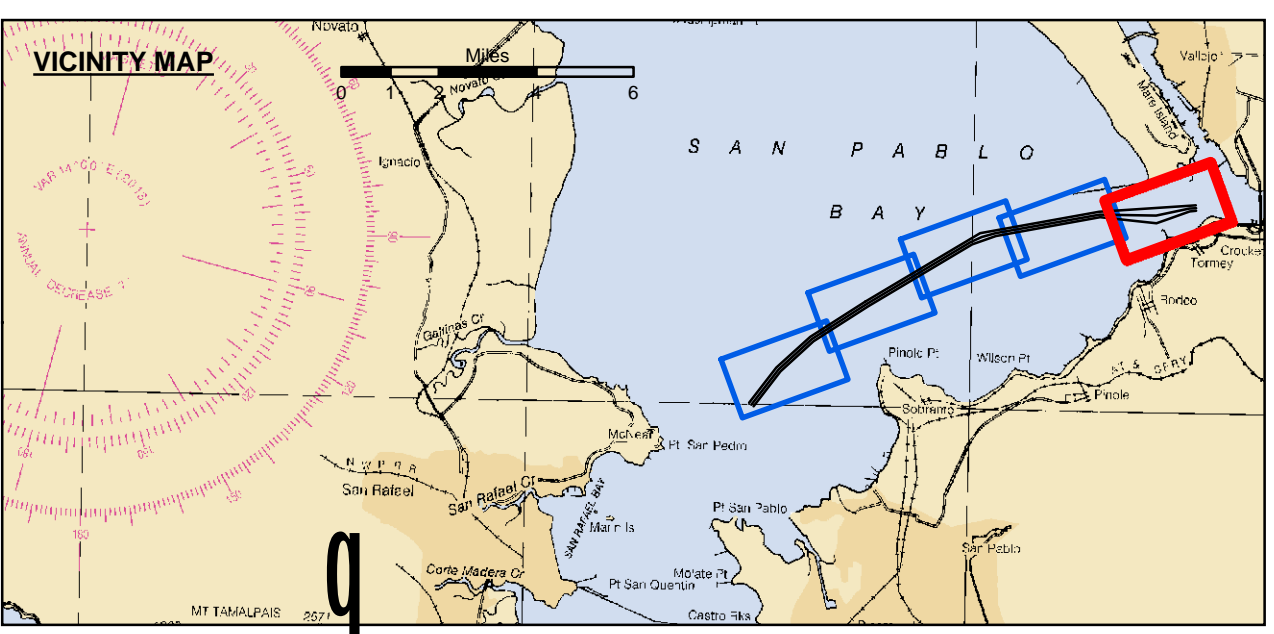
CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 19, 21 & 28 APRIL 2016

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FLOOD a
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- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
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- Navigation Buoy
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