

**N.A.D. 1983 FEET COORDINATES**

Channel Angle Point	Easting	Northing
01	6010230.66	2162394.62
02	6009436.76	2161650.06
03	6010702.46	2161282.52
04	6013280.69	2158029.15
05	6013071.04	2159051.01
06	6016426.10	2157649.80
07	6013946.57	2158590.79
08	6020299.03	2156972.78
09	6019811.99	2157565.50
10	6023187.74	2156366.30
11	6022179.38	2157068.47
12	6024797.57	2156256.37
13	6023175.24	2156977.58
14	6025133.92	2156630.24
15	6024071.72	2157243.76
16	6025096.44	2157620.99
17	6024244.63	2157572.06
18	6024794.33	2158699.33
19	6023863.13	2159896.61
20	6024629.99	2159700.65
21	6023718.07	2161814.06
22	6024470.69	2161806.34
23	6023659.10	2161929.33
24	6023871.49	2162011.81
25	6022130.19	2163218.69
26	6022259.11	2163371.56

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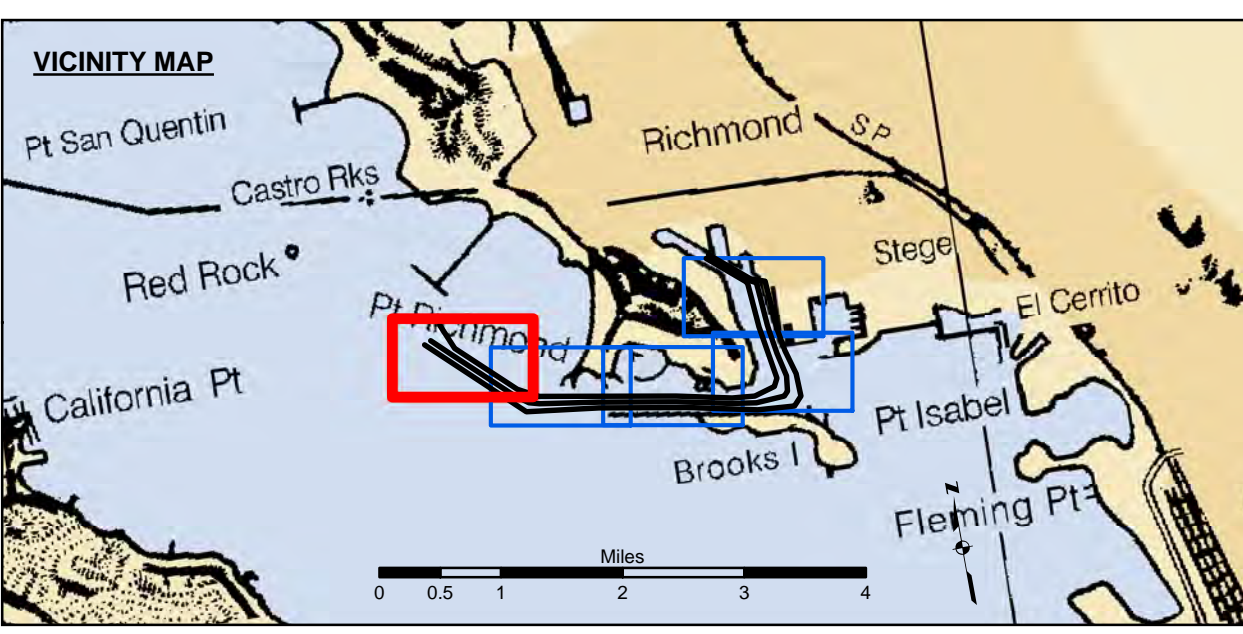
Centerline Angle Point	Easting	Northing
C01	6009645.81	2161871.50
C02	6012865.31	2158832.66
C03	6013468.42	2158386.31
C04	6013908.41	2158274.43
C05	6023181.49	2156671.94
C06	6024434.65	2156750.07
C07	6024602.82	2156937.00
C08	6024670.54	2157596.53
C09	6024272.27	2159641.94
C10	6024094.38	2161810.20
C11	6023765.30	2161970.57
C12	6022194.65	2163295.13

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Prepared Under the Direction of:	Surveyed By:	Chart Date:
LT COLONEL J. RAYFIELD		Jul 10, 2018
Subject:	Plotted By:	Designed by:
Hydro Survey Team Leader	PDT	
Recommended:	Checked By:	Drawn by:
Chief, Hydro Survey Section	PDT	PDT
Approved:		
Chief, Construction Branch		

ALAMEDA COUNTY  
 RICHMOND INNER HARBOR  
 CONDITION SURVEY  
 26 JUNE 2018



Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-38
Placement Area	Navigation Buoy	-37
Anchorage Area	Navigation Buoy	-36
Wreck Area	Shoalest Sounding*	-35
Submerged Wreck		-34
Angle Point		

**NOTES:**  
 HORIZONTAL COORDINATE SYSTEM:  
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 \*SHOALEST SOUNDING PER QUARTER PER REACH

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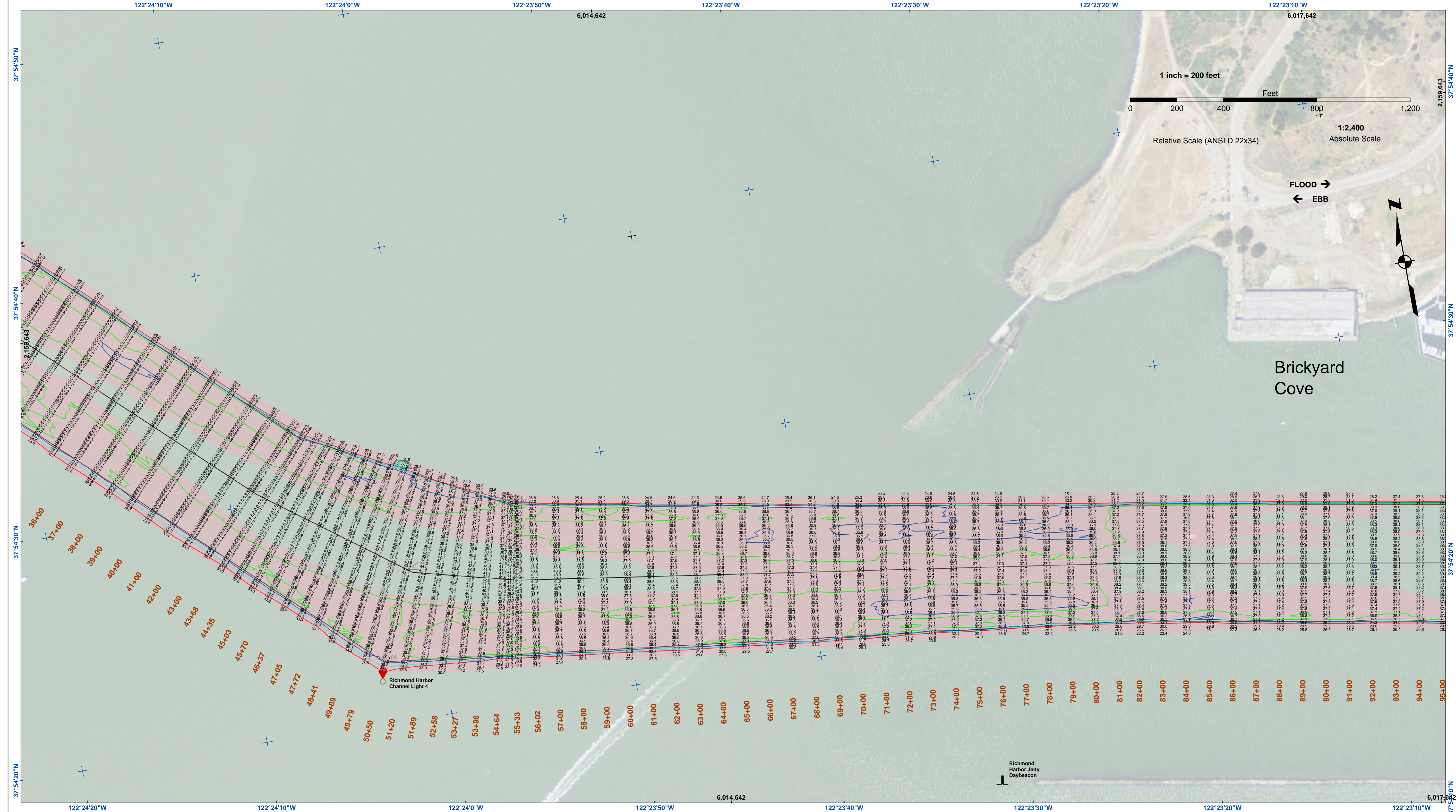
BASE MAPS ARE USDA NAIP 2010.  
 THE PROJECT DEPTHS ARE AS FOLLOWS:  
 INNER HARBOR CHANNEL -37.5 FEET.  
 SANTE FE CHANNEL -30 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW.  
 BENCHMARK #2 (1032) USCGS DISK OLD FORD PLANT 16.0R25 FT. MLLW.  
 B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.

TIDE GAGE LOCATION: MON B-1.  
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.  
 VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

**Sheet Reference Number**  
 1 of 5





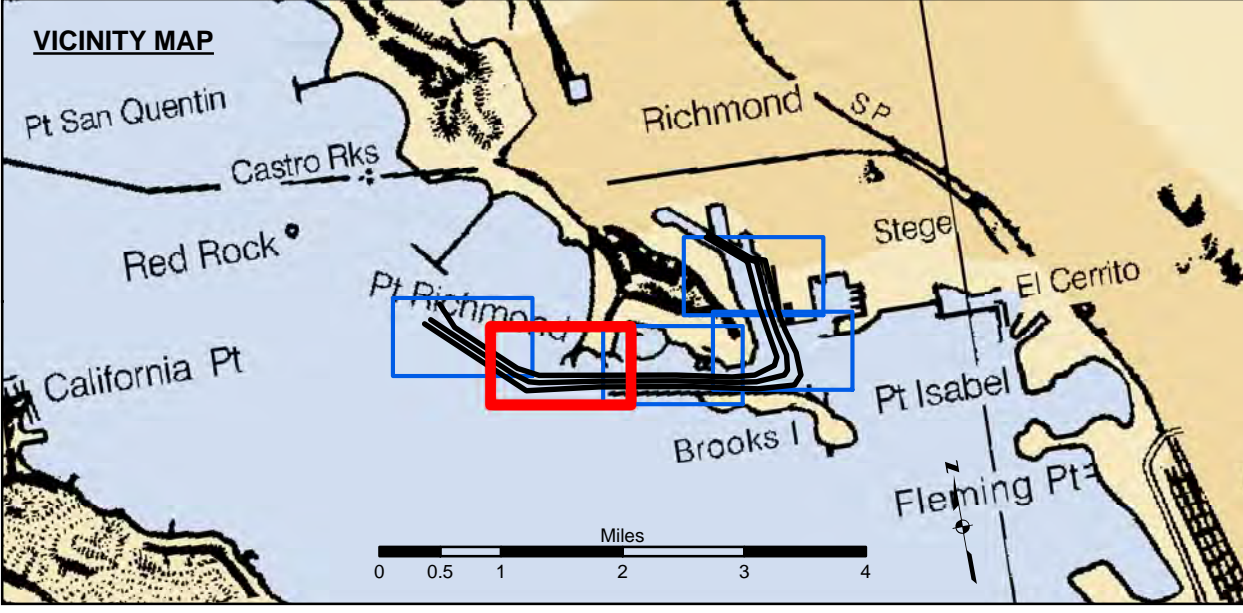
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Chart Date:	Jul 10, 2018
Designed by:	PDT
Drawn by:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	Travis J. Rayfield
Plotted By:	PDT

CALIFORNIA  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 26 JUNE 2018

ALAMEDA COUNTY  
**Sheet Reference Number**  
 2 of 5

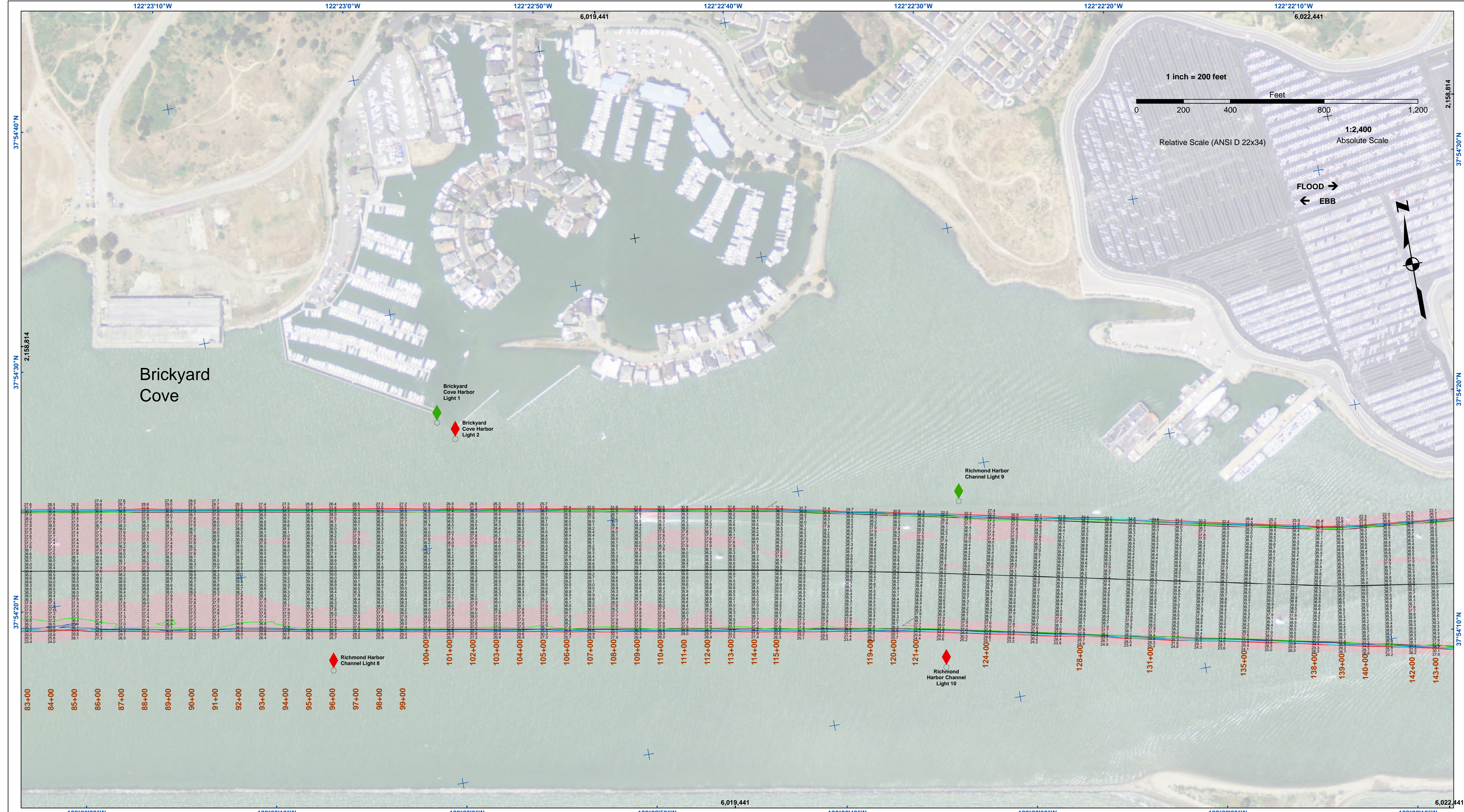


Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-38
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Angle Point		

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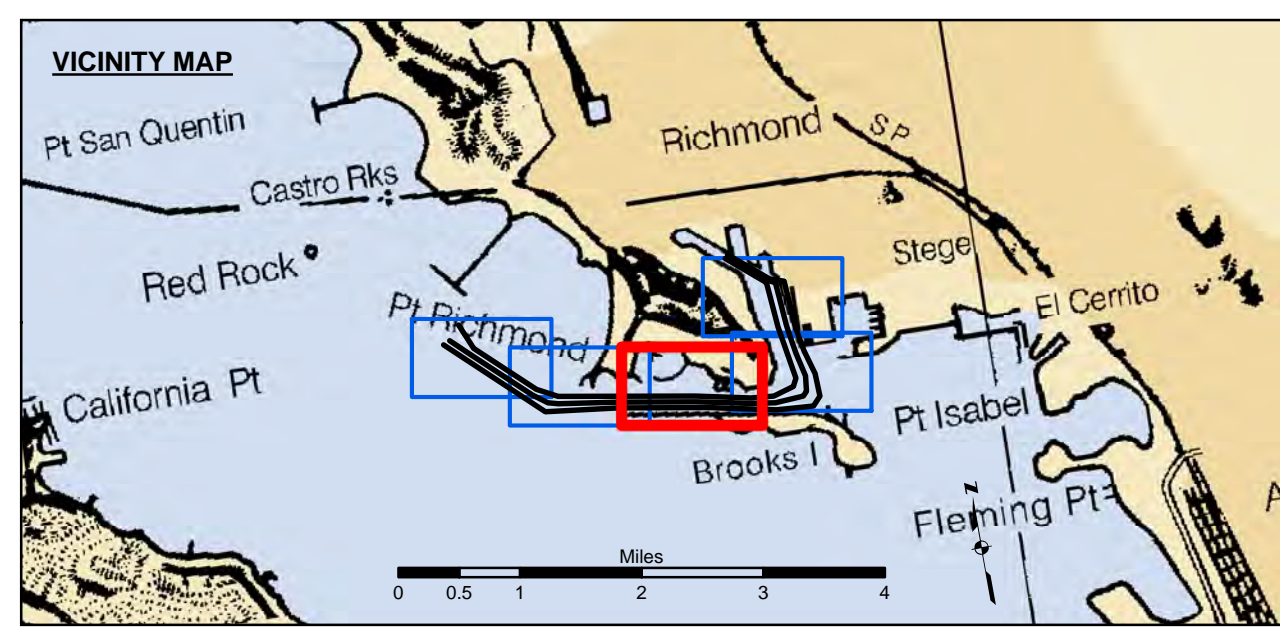




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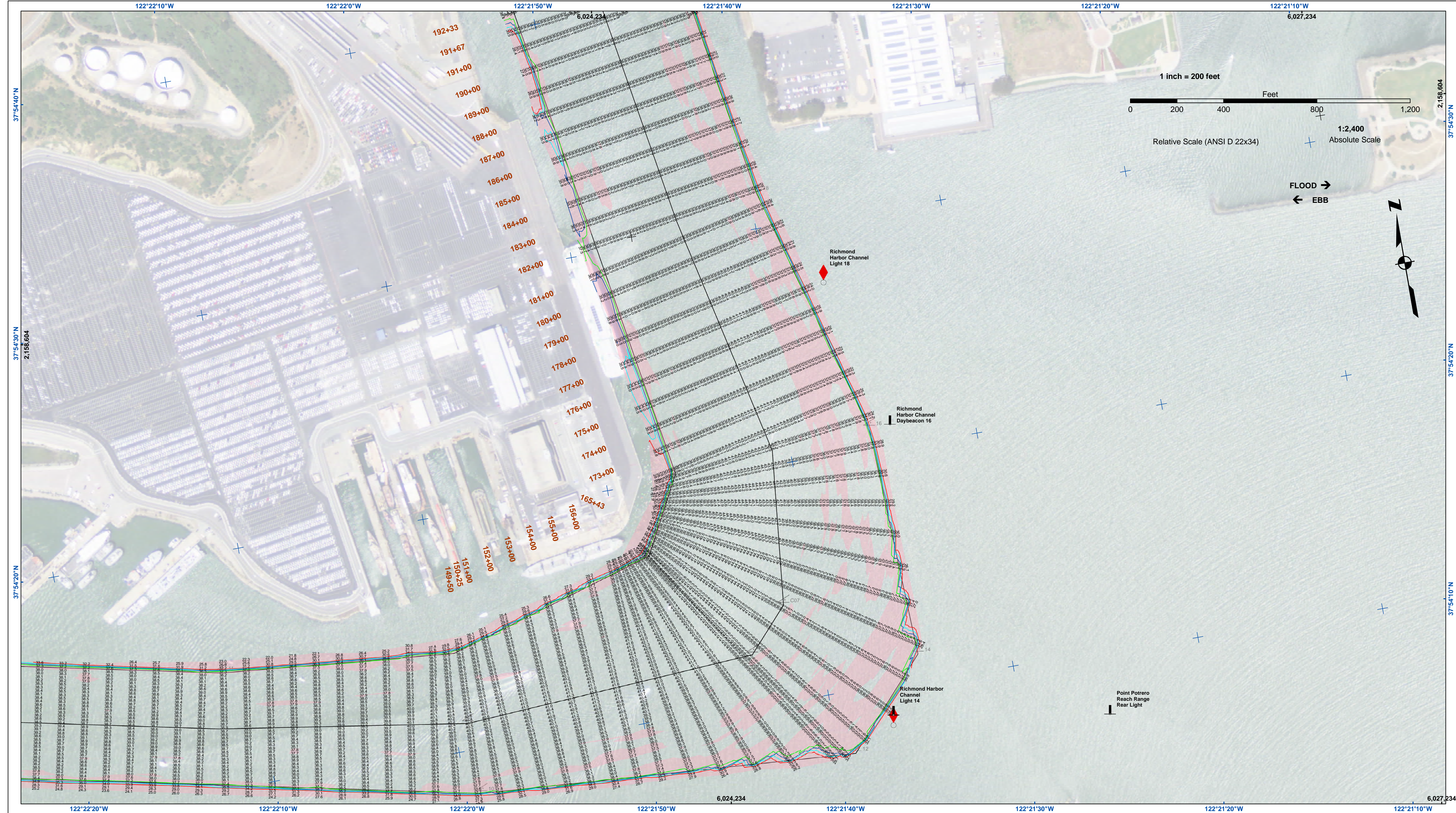
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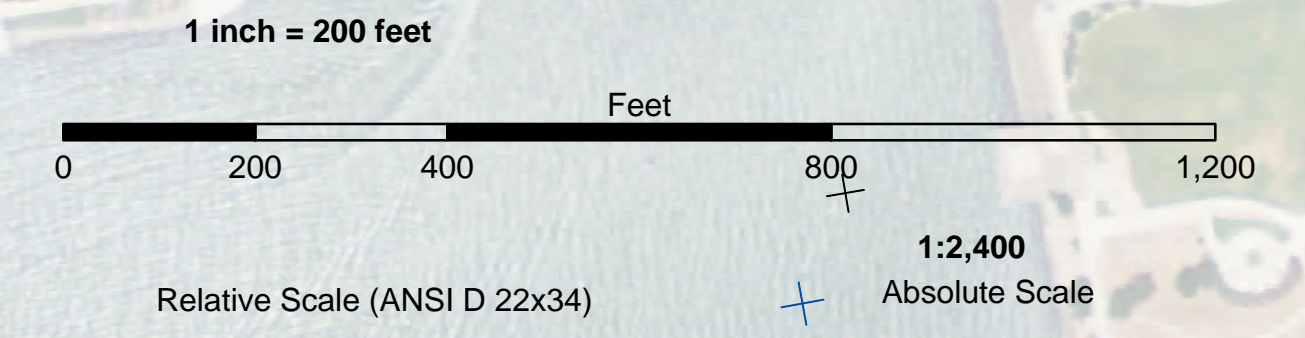
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 BENCHMARK 22 (1032) USCGS DISK OLD FORD PLANT 16.025 FT. MLLW.  
 B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.  
 TIDE GAGE LOCATION: MON B-1.  
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.  
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CALIFORNIA  
 ALAMEDA COUNTY  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 26 JUNE 2018  
**Sheet**  
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**3 of 5**





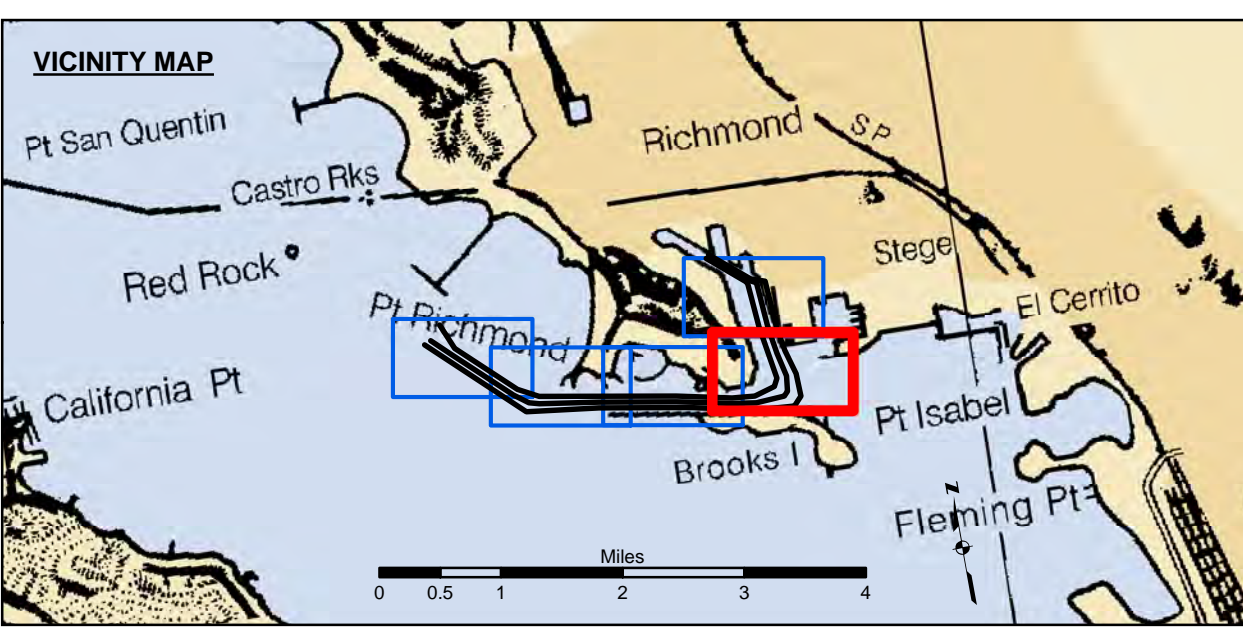
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Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Submitted:	Hydro Survey Team Leader
Plotted by:	PDT
Surveyed By:	TRAVIS J. RAYFIELD LT COLONEL, C.E., DISTRICT ENGINEER

ALAMEDA COUNTY  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 26 JUNE 2018



- Federal Navigation Channel
  - Shoaling Area
  - Placement Area
  - Anchorage Area
  - Wreck Area
  - Submerged Wreck
  - Angle Point
  - Beacon, General
  - Obstruction Point
  - Navigation Buoy
  - Navigation Buoy
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- Contours**
- 38
  - 37
  - 36
  - 35
  - 34

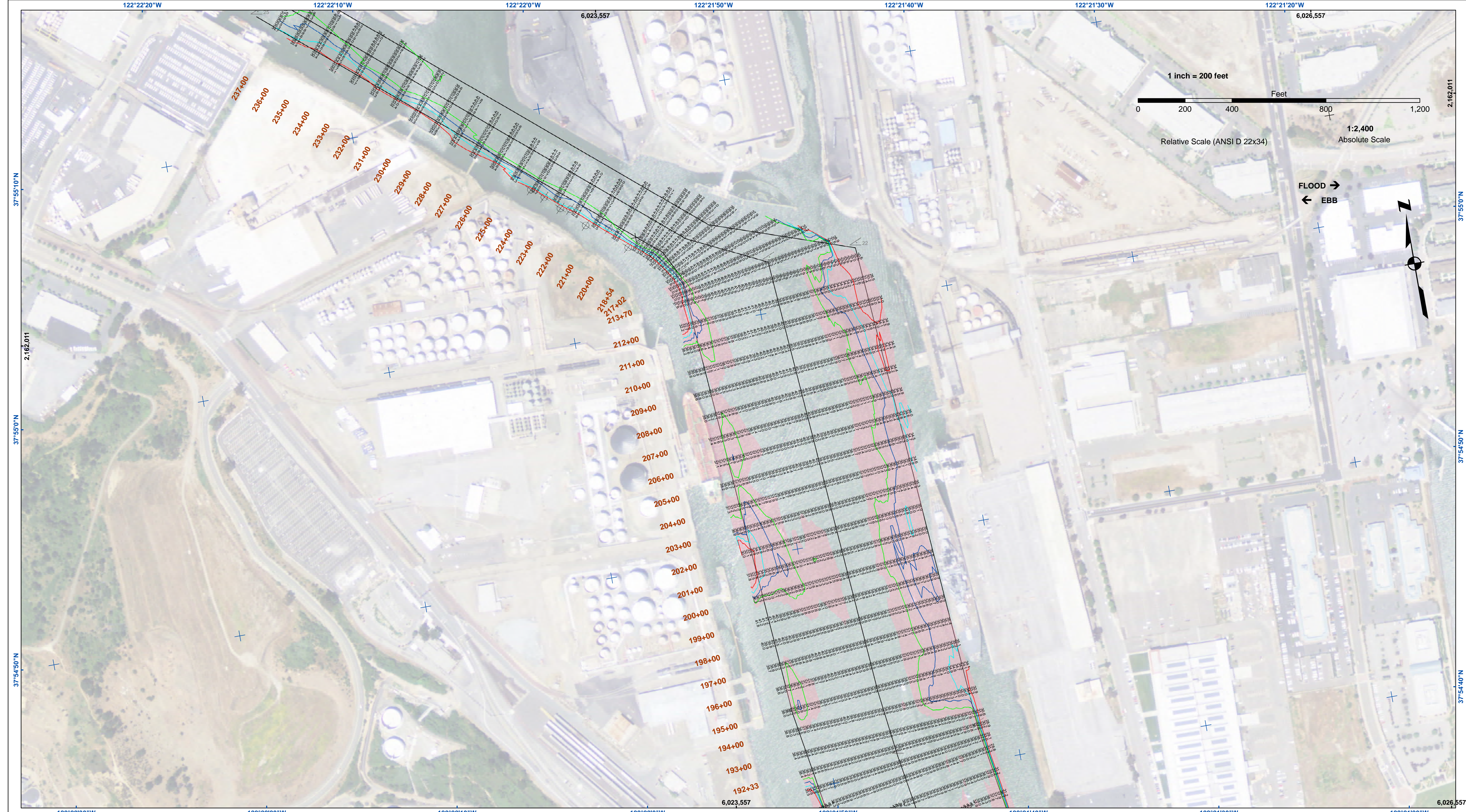
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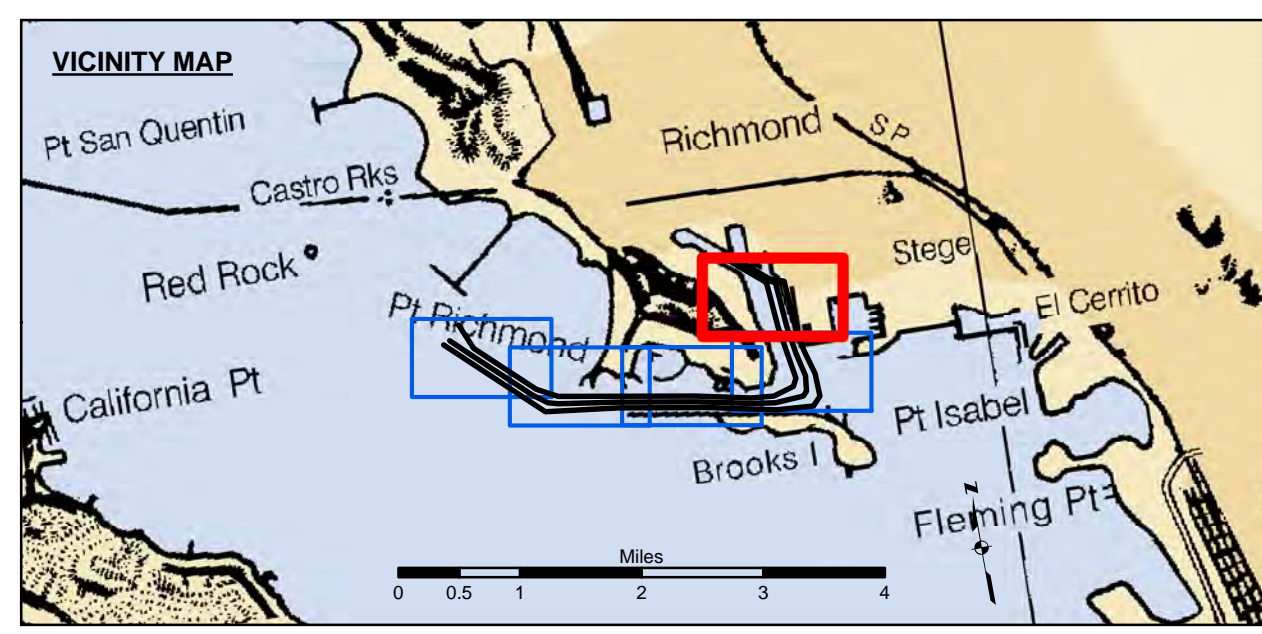


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