

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

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N.A.D. 1983 FEET COORDINATES

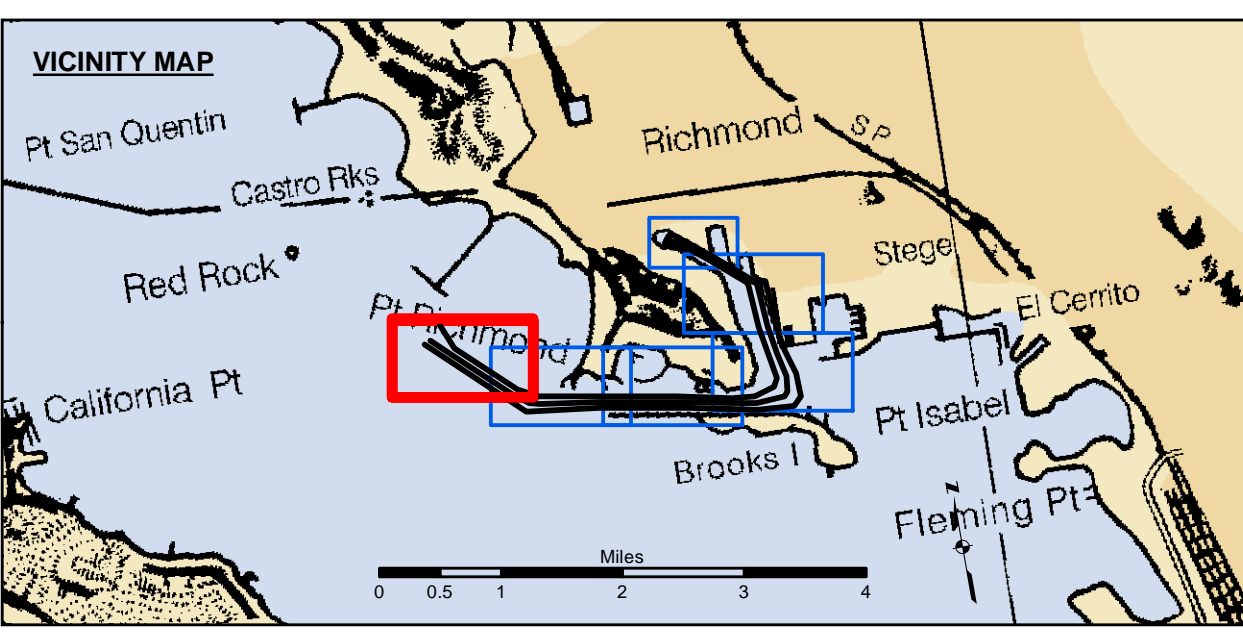
Channel Angle Point	Easting	Northing
01	6010230.66	2162394.62
02	6009436.76	2161650.06
03	6010702.46	2161282.52
04	6013280.69	2158029.15
05	6013071.04	2159051.01
06	6016426.10	2157649.80
07	6013946.57	2158590.79
08	6020299.03	2156972.78
09	6019811.99	2157565.50
10	6023187.74	2156366.30
11	6022179.38	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

N.A.D. 1983 FEET COORDINATES

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

Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jun 03, 2020
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 19 & 27 MAY 2020

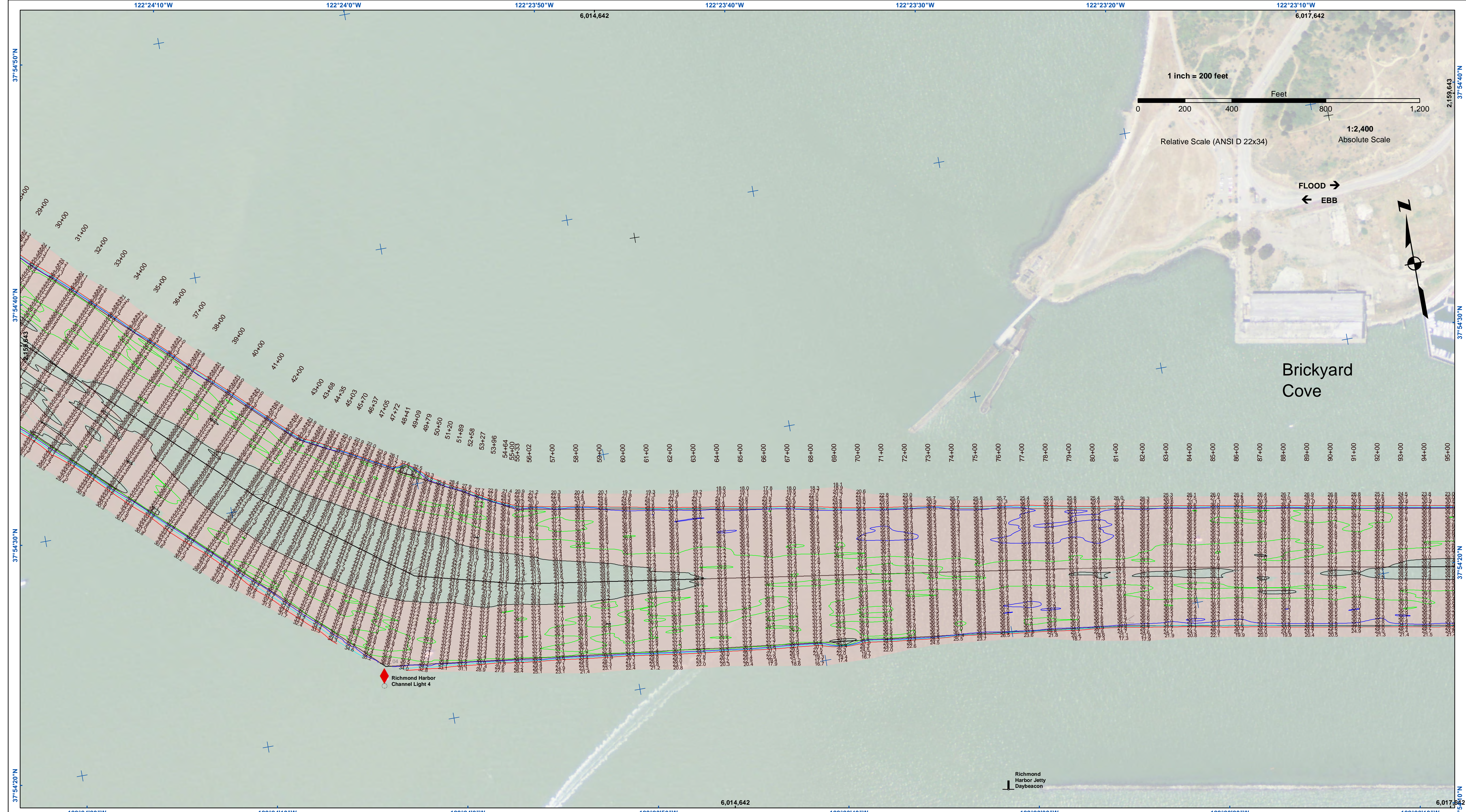


Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-38
Placement Area	Navigation Buoy	-37
Anchorage Area	Navigation Buoy	-36
Wreck Area	Shoalest Sounding*	-35
Submerged Wreck		-34
Angle Point		

NOTES:
 HORIZONTAL COORDINATE SYSTEM:
 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:
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
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 BENCHMARK #2 (1032) USCGS DISK OLD FORD PLANT 16.0825 FT. MLLW.
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 TIDE GAGE LOCATION: MON B-1.
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
 VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

Sheet Reference Number
 1 of 6



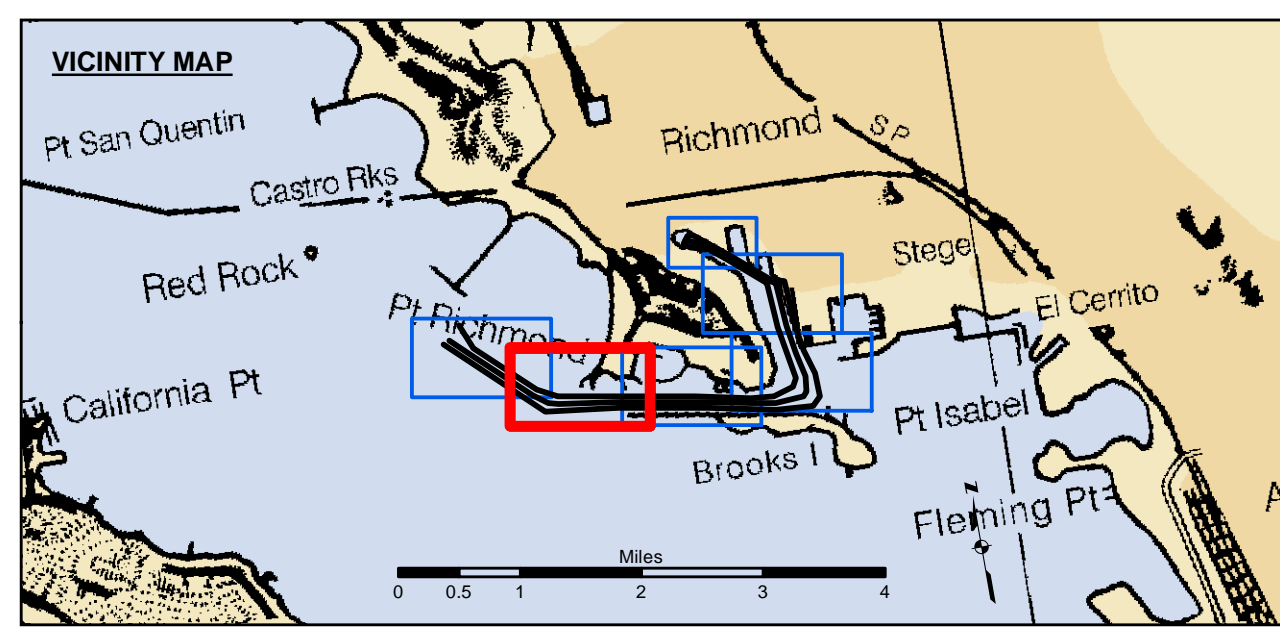
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Chart Date:	Jun 03, 2020
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 19 & 27 MAY 2020

Sheet
Reference
Number
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Federal Navigation Channel	Beacon, General	Contours
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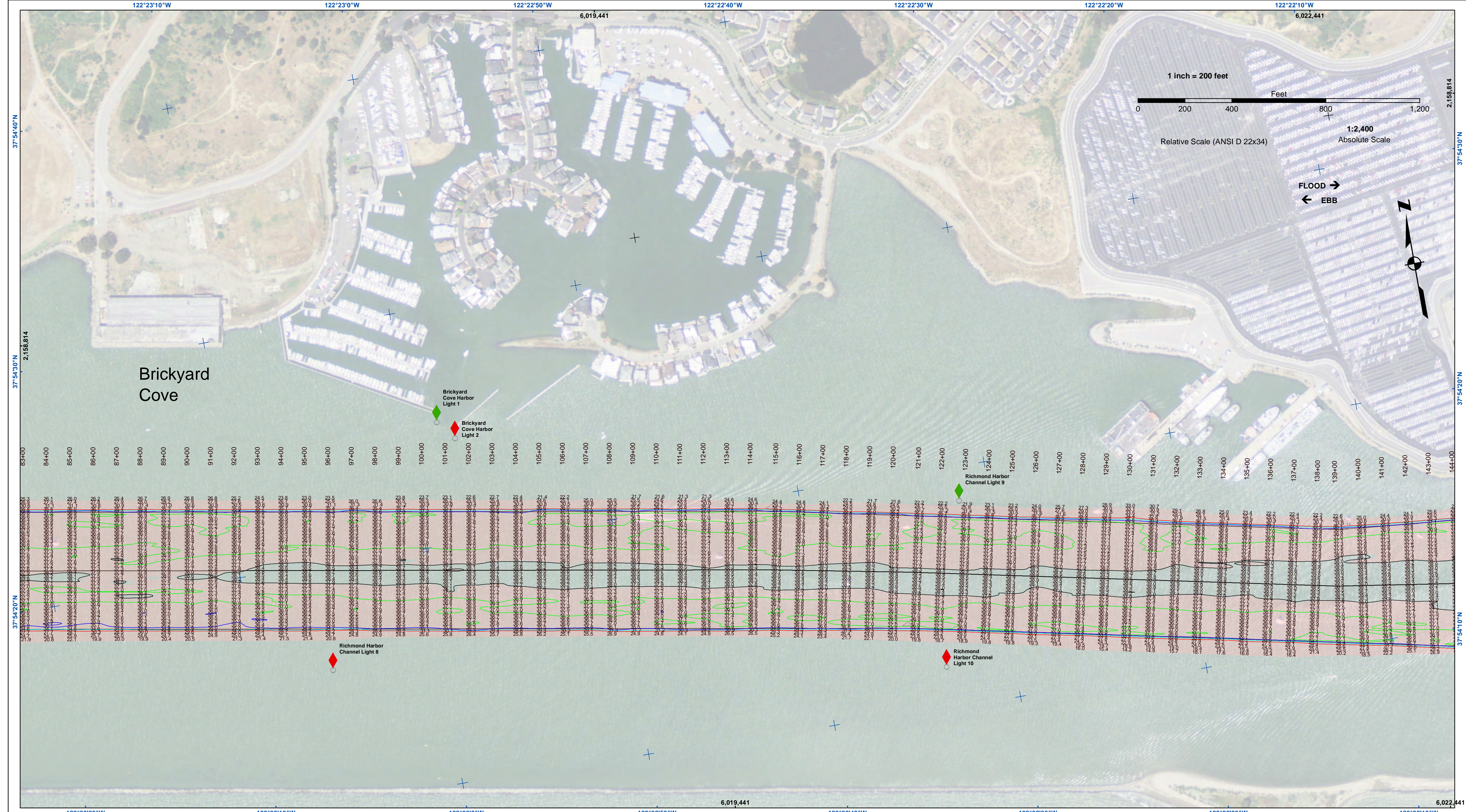
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TIDE GAGE LOCATION: MON B-1.
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
 VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY



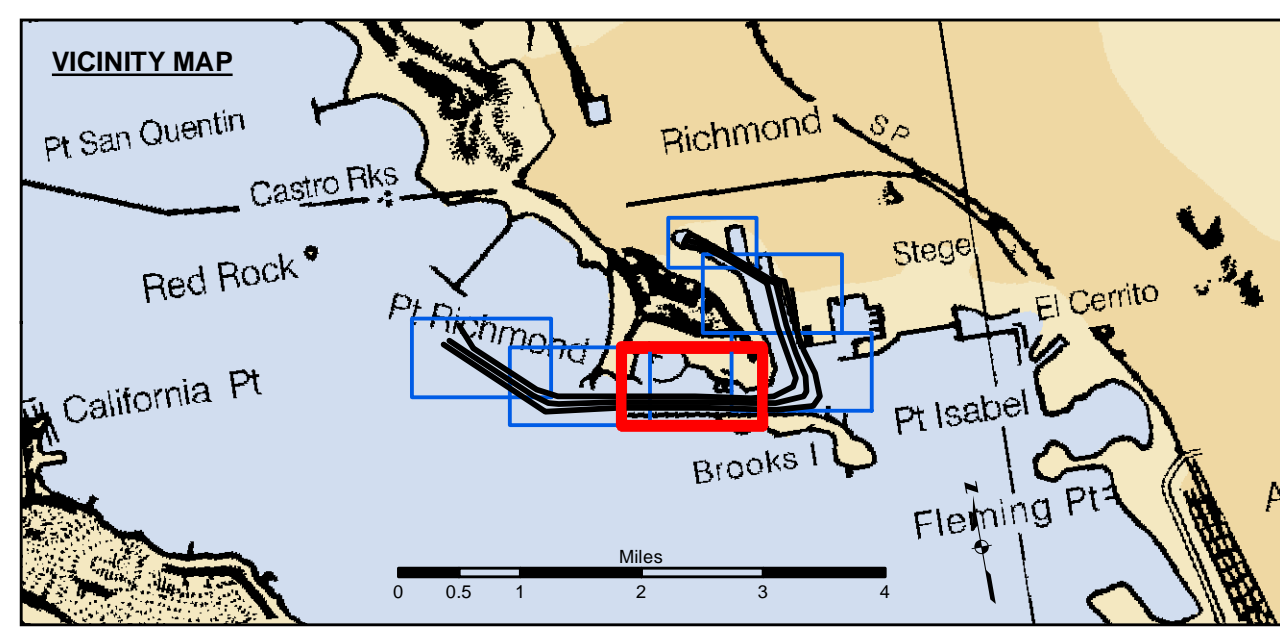
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Designed by:	PDT
Surveyed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 19 & 27 MAY 2020

Sheet Reference Number
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Federal Navigation Channel	Beacon, General	Contours
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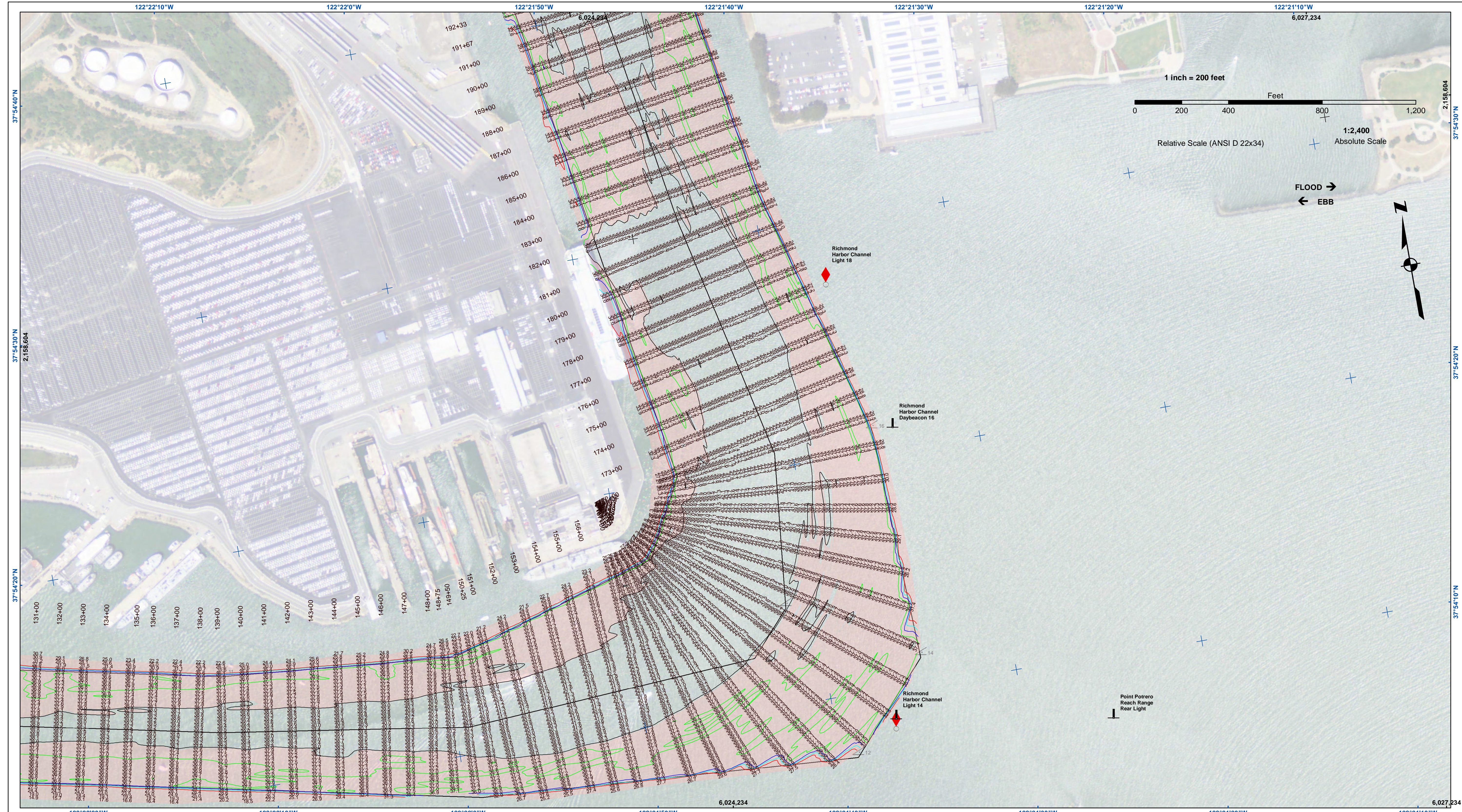
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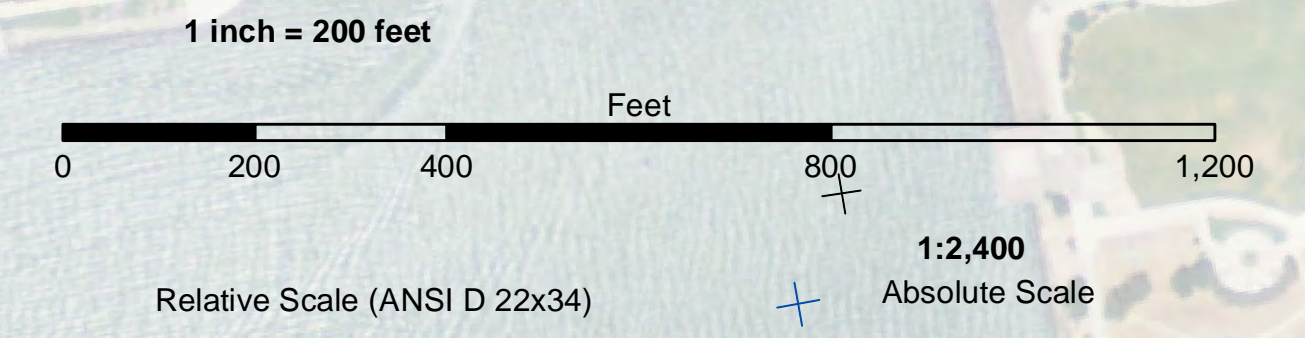
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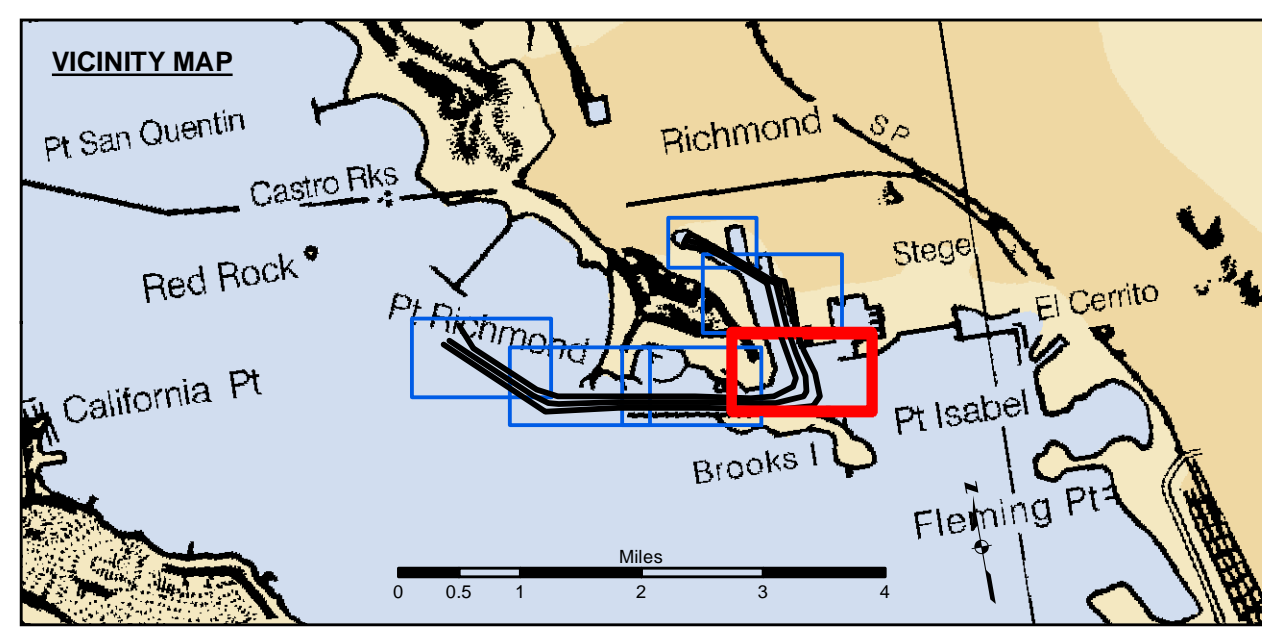
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jun 03, 2020
Subject: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 19 & 27 MAY 2020



Federal Navigation Channel	Beacon, General	Contours
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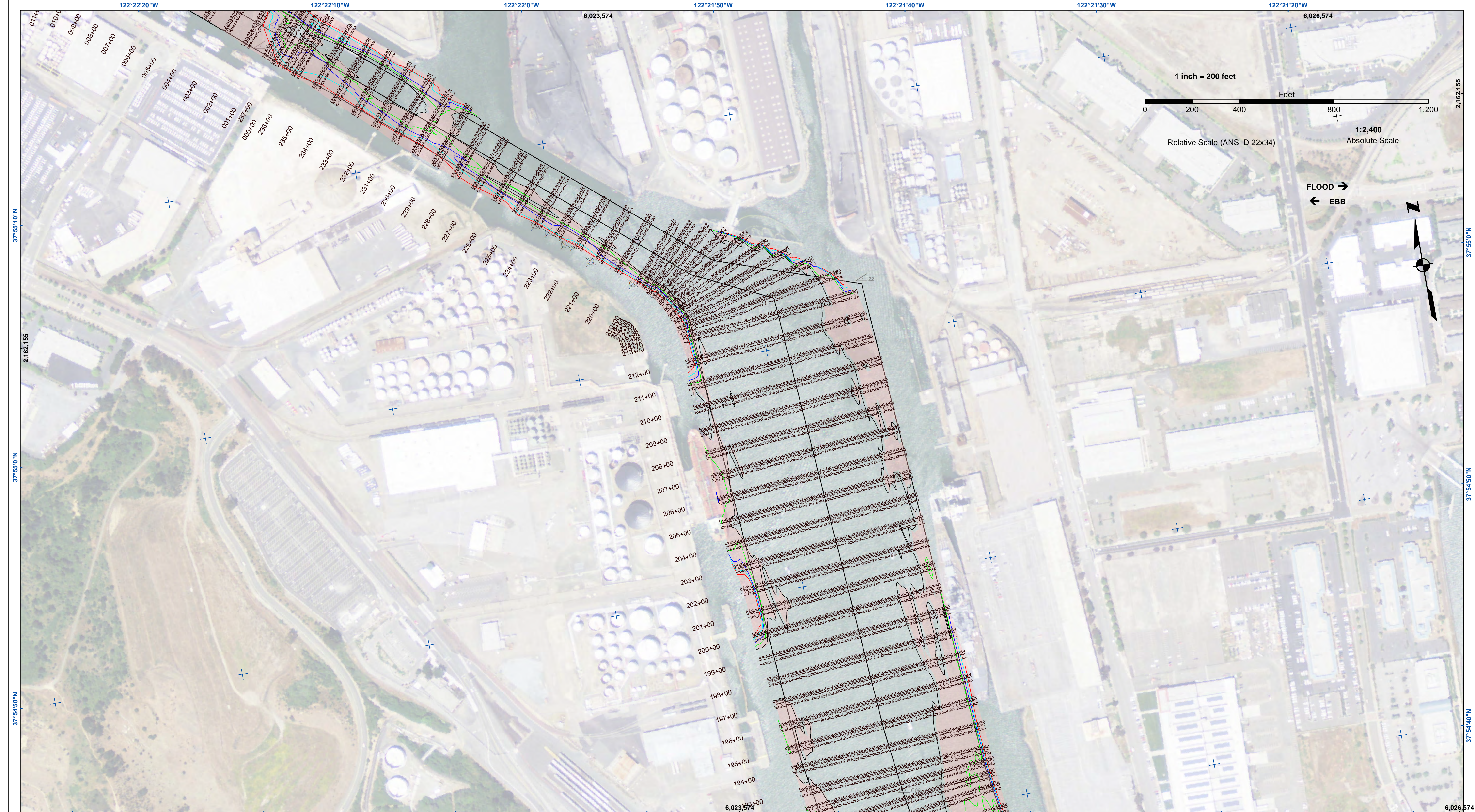
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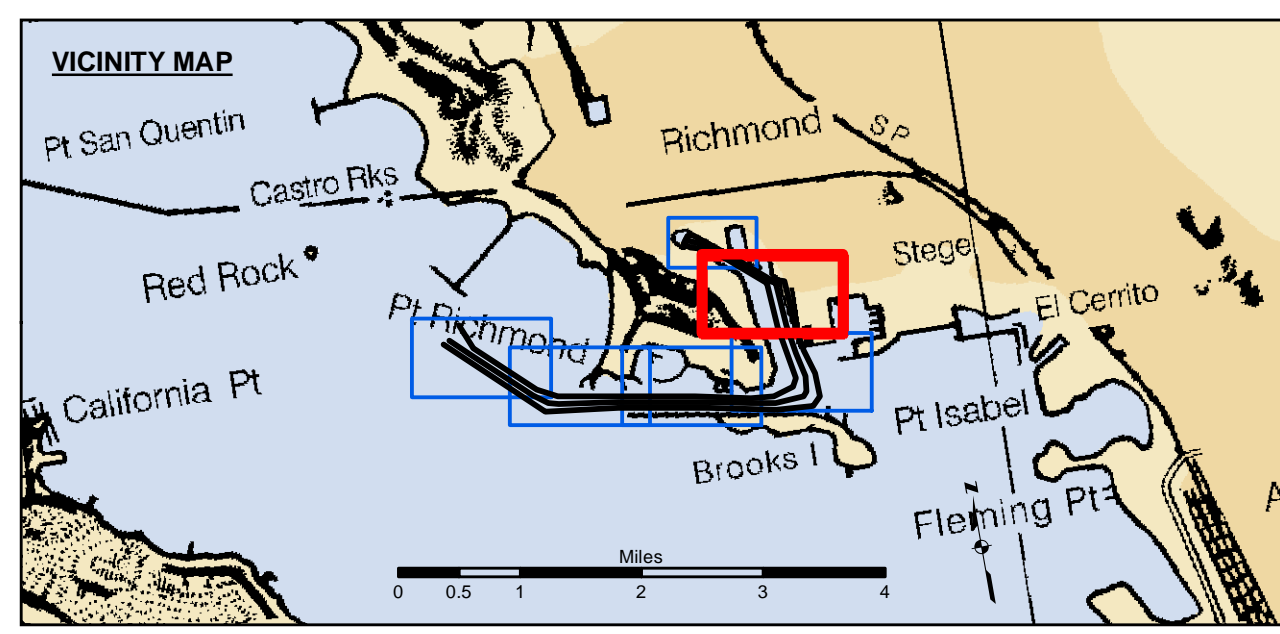


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Chart Date:	Jun 03, 2020
Designed by:	PDT
Plotted By:	PDT
Checked By:	PDT
Drawn by:	PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 19 & 27 MAY 2020



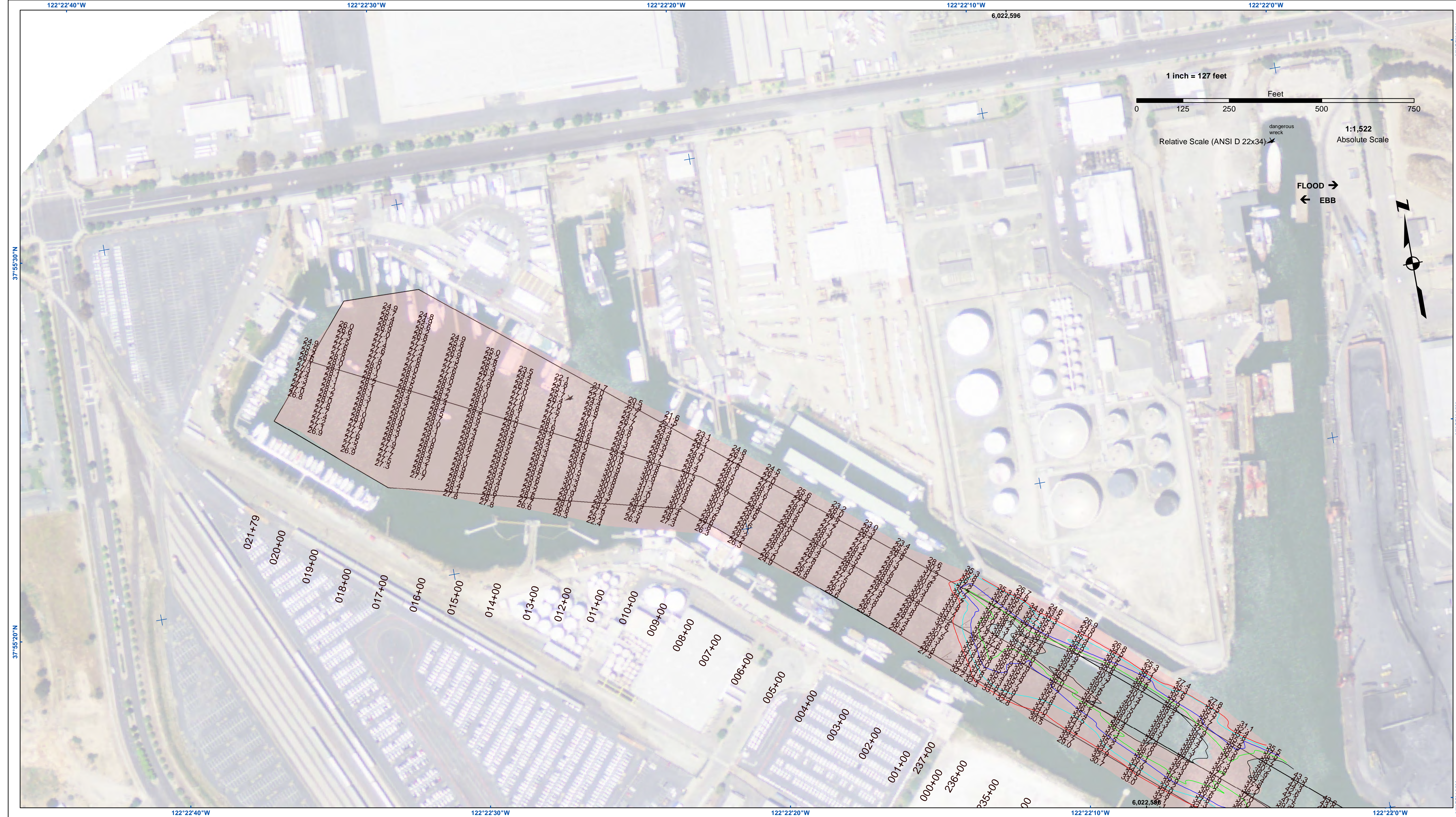
- | | | |
|----------------------------|--------------------|-----------------|
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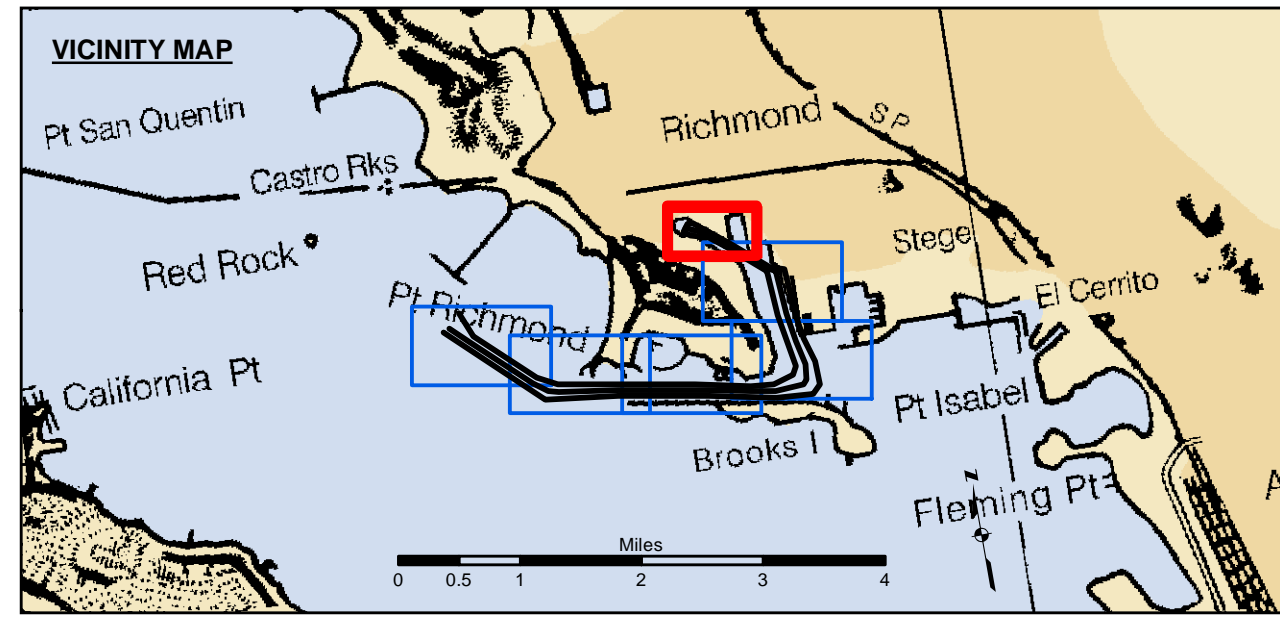


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Prepared Under the Direction of:	Chart Date:
LT COLONEL C.E. CUNNINGHAM	May 28, 2020
Submitted:	Plotted By:
Hydro Survey Team Leader	PDT
Recommended:	Checked By:
Chief, Hydro Survey Section	PDT
Approved:	Drawn by:
Chief, Construction Branch	PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
SANTA FE CHANNEL
CONDITION SURVEY
 19 & 27 MAY 2020



Federal Navigation Channel	Beacon, General	Contours
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