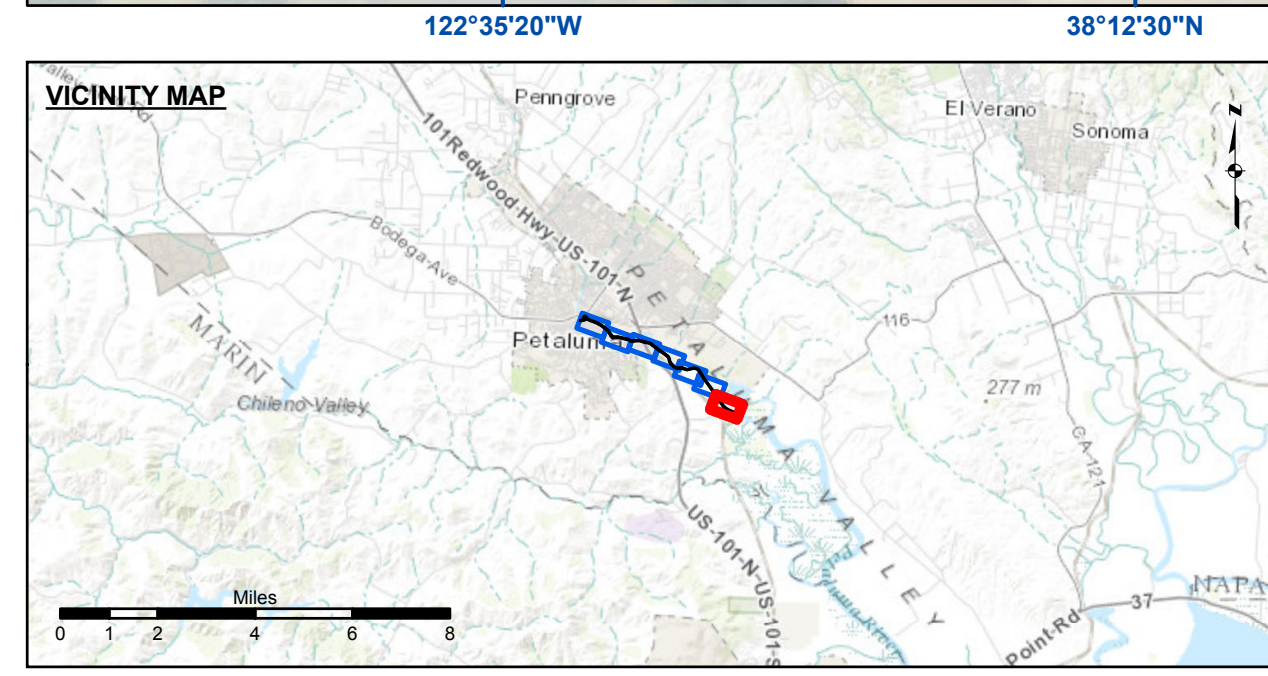
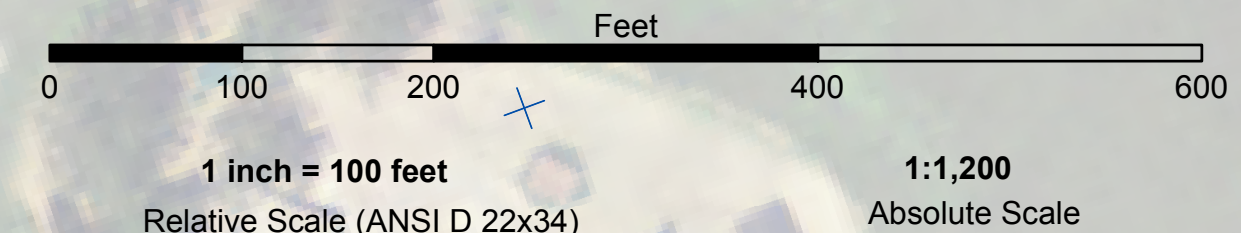


NAD 1983 CHANNEL ANGLE POINTS					
Δ PT	X	Y	Δ PT	X	Y
1	5947195.52	2279008.14	47	5964083.42	2268915.75
2	5947246.62	2279017.15	48	5964040.02	2268825.75
3	5947549.42	2279070.45	49	5963083.92	2269283.95
4	5947589.22	2279106.25	50	5962833.12	2269449.25
5	5947529.62	2279300.85	51	5962626.32	2269672.25
6	5947521.22	2279359.15	52	5962123.02	2270425.95
7	5947532.92	2279405.05	53	5960507.42	2272708.15
8	5947718.92	2279474.25	54	5960058.42	2273467.85
9	5947755.42	2279454.65	55	5959833.42	2273663.85
10	5947814.42	2279376.15	56	5959509.42	2273754.85
11	5947911.32	2279220.45	57	5958721.42	2273583.85
12	5948246.82	2279020.35	58	5958162.42	2273771.85
13	5948305.72	2279000.15	59	5957897.32	2273734.35
14	5948344.82	2279000.45	60	5957331.92	2273673.15
15	5949049.32	2278725.55	61	5956983.82	2274257.05
16	5949496.22	2278469.15	62	5956824.42	2274505.15
17	5950191.42	2277931.85	63	5956373.02	2274857.75
18	5950596.42	2277337.85	64	5956029.22	2275054.75
19	5950794.42	2277205.85	65	5956141.42	2275413.85
20	5951273.42	2277220.65	66	5955727.42	2275674.85
21	5952333.32	2276963.75	67	5954744.42	2276435.85
22	5952732.72	2276774.85	68	5954491.12	2276524.15
23	5953487.92	2276853.85	69	5954460.32	2276546.85
24	5953599.52	2276842.95	70	5954431.62	2276552.25
25	5954281.22	2276642.75	71	5954408.82	2276535.05
26	5954331.62	2276619.45	72	5954165.52	2276572.55
27	5954618.62	2276589.85	73	5953579.92	2276743.15
28	5954786.42	2276530.85	74	5953465.72	2276752.25
29	5955775.22	2275763.85	75	5952702.82	2276672.75
30	5956195.42	2275498.85	76	5952293.82	2276870.75
31	5956713.92	2275116.95	77	5951242.92	2277125.45
32	5956839.42	2274881.05	78	5950971.42	2277102.85
33	5956921.92	2274527.35	79	5950681.42	2277027.85
34	5957038.82	2274323.15	80	5950486.42	2277202.85
35	5957388.02	2273958.35	81	5950339.42	2277527.85
36	5957711.92	2273835.35	82	5950109.42	2277865.85
37	5958176.42	2273872.85	83	5949421.02	2278396.85
38	5958729.42	2273687.85	84	5948859.72	2278689.85
39	5959511.42	2273856.85	85	5948312.42	2278905.85
40	5959883.42	2273752.85	86	5948280.12	2278929.65
41	5960139.42	2273529.85	87	5948091.42	2278994.25
42	5960589.72	2272764.95	88	5947853.22	2279138.95
43	5962048.82	2270483.55	89	5947805.02	2279125.95
44	5962710.22	2269728.65	90	5947589.12	2278975.95
45	5962893.42	2269531.55	91	5947221.22	2278911.15
46	5963132.52	2269372.45	92	5947161.12	2278939.85

NAD 1983 CENTERLINE ANGLE POINTS					
Δ PT	X	Y	Δ PT	X	Y
1	5947178.32	2278973.85	2	5947208.32	2278958.85
3	5947569.22	2279022.85	4	5947619.52	2279060.85
5	5947819.72	2279218.85	6	5947882.22	2279178.85
7	5948117.42	2279038.85	8	5948234.62	2278983.85
9	5948292.92	2278963.85	10	5948328.82	2278952.85
11	5948678.42	2278736.85	12	5949021.42	2278671.85
13	5949446.12	2278438.85	14	5950150.42	2277898.85
15	5950382.92	2277558.85	16	5950941.42	2277269.85
17	5950737.92	2277118.85	18	5950989.82	2277158.85
19	5951248.92	2277172.85	20	5952313.52	2276915.85
21	5952717.72	2276722.85	22	5953495.12	2276903.85
23	5953589.72	2276792.85	24	5954179.62	2276618.85
25	5954274.62	2276598.85	26	5954326.22	2276582.85
27	5954413.22	2276577.85	28	5954434.22	2276578.85
29	5954483.22	2276575.85	30	5954495.02	2276562.85
31	5954601.52	2276539.85	32	5954765.42	2276462.85
33	5954765.42	2276462.85	34	5954984.42	2275455.85
35	5954984.42	2275455.85	36	5956788.22	2274868.85
37	5956788.22	2274868.85	38	5957001.32	2274289.85
39	5957001.32	2274289.85	40	5957359.02	2273914.85
41	5957704.62	2273783.85	42	5958725.42	2273635.85
43	5958725.42	2273635.85	44	5959056.42	2273707.85
45	5959056.42	2273707.85	46	5960098.92	2272735.85
47	5960098.92	2272735.85	48	5962163.92	2270453.85
49	5962163.92	2270453.85	50	5962883.22	2269489.85
51	5964081.72	2268869.85			

**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY



- 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\*
- Contours**
- 8
- 7
- 6
- 5
- 4

NOTES:  
DRAWING NOT TO BE USED FOR NAVIGATION, ONLY CHANNEL CONDITION AT DATE OF SURVEY.  
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.  
SURVEYED BY THE CORPS OF ENGINEERS.  
SOUNDINGS ARE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND TENTHS OF A FOOT.  
ELEVATIONS ARE BASED ON TIDAL BENCH MARK 941 5584 BOLT C, NATIONAL OCEAN SERVICE BOLT, ELEV. 13.69, NAVD 88 DATUM, PUBLICATION DATE: AUGUST 9, 2004.

PLANE GRID AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.  
PROJECT DEPTH IS 8 FEET FROM THE MOUTH OF PETALUMA CREEK TO WESTERN AVE., THEN 4 FOOT DEPTH TO THE HEAD OF NAVIGATION.  
ELEVATIONS ARE BASED ON TIDAL BENCH MARK 941 5584 BOLT C, NATIONAL OCEAN SERVICE BOLT, ELEV. 13.69, NAVD 88 DATUM, PUBLICATION DATE: AUGUST 9, 2004.

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

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Chart Date:	Sept 16, 2014
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	
Checked By:	PDT
Approved:	

CALIFORNIA  
SONOMA COUNTY  
**PETALUMA RIVER**  
CONDITION SURVEY  
12-14 SEPTEMBER 2014

**Sheet Reference Number**  
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