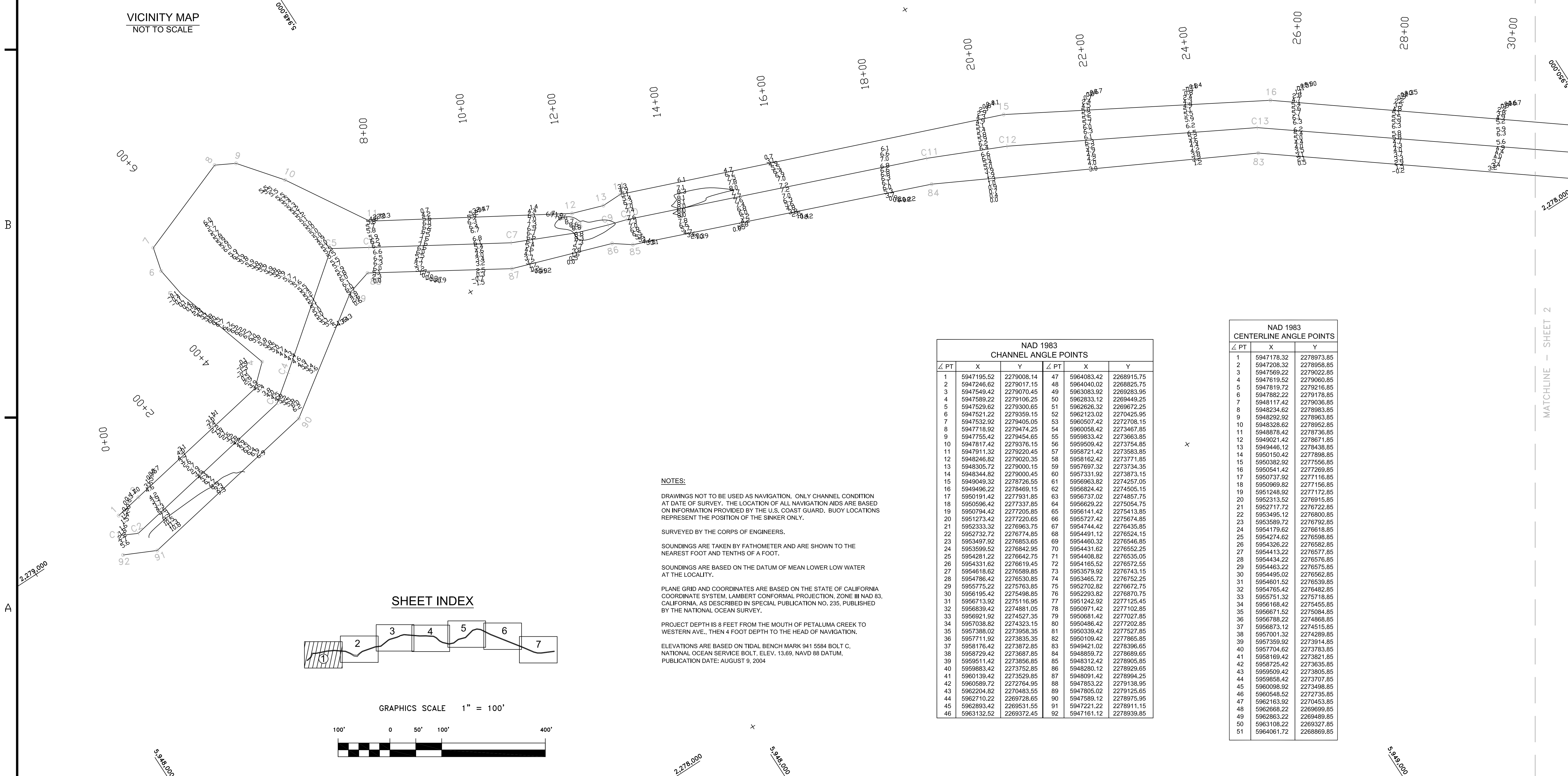
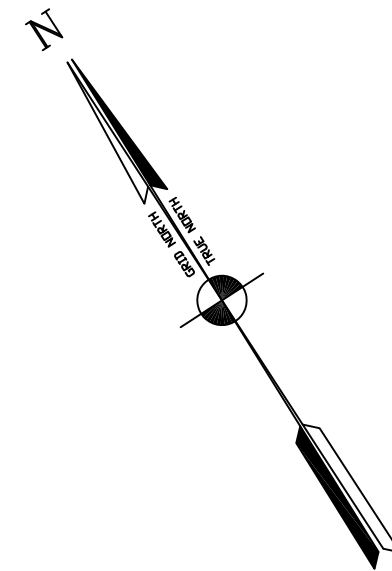


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



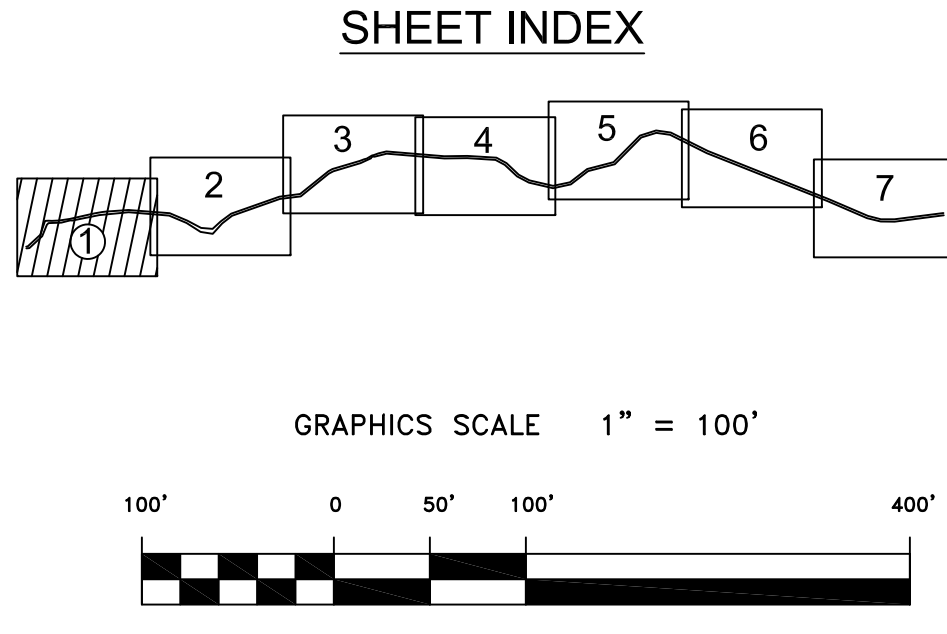
NAD 1983 CHANNEL ANGLE POINTS

∠ PT	X	Y	∠ 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	5947528.62	2279300.65	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	5947817.42	2279376.15	56	5959508.42	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	5957697.32	2273734.35
14	5948344.82	2279000.45	60	5957331.92	2273873.15
15	5949049.32	2278726.55	61	5956963.82	2274257.05
16	5949496.22	2278469.15	62	5956824.42	2274505.15
17	5950191.42	2277831.85	63	5956737.02	2274857.75
18	5950586.42	2277337.85	64	5956229.22	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	5953497.92	2276853.65	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	5953485.72	2276752.25
29	5955775.42	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	2274233.15	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	2278396.65
38	5958729.42	2273687.85	84	5948859.72	2278689.65
39	5959511.42	2273656.85	85	5948312.42	2278905.85
40	5959883.42	2273752.85	86	5948280.12	2278929.65
41	5960138.42	2273529.85	87	5948091.42	2278994.25
42	5960589.72	2272764.95	88	5947853.22	2279138.95
43	5962204.82	2270483.55	89	5947805.02	2279125.65
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

∠ 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	2279216.85
6	594882.22	2279178.85
7	5948117.42	2279036.85
8	5948234.62	2278983.85
9	5948292.92	2278963.85
10	5948328.62	2278952.85
11	5948878.42	2278736.85
12	5949021.42	2278671.85
13	5949446.12	2278438.85
14	5950150.42	2277898.85
15	5950382.92	2277556.85
16	5950541.42	2277269.85
17	5950737.92	2277116.85
18	5950969.82	2277156.85
19	5951248.92	2277172.85
20	595213.52	2276915.85
21	5952717.72	2276722.85
22	5953495.12	2276800.85
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	5954463.22	2276575.85
30	5954495.02	2276562.85
31	5954601.52	2276539.85
32	5954765.42	2276482.85
33	5955751.32	2275718.85
34	5956168.42	2275455.85
35	5956671.52	2275084.85
36	5956788.22	2274868.85
37	5956873.12	2274515.85
38	5957001.32	2274289.85
39	5957359.92	2273914.85
40	5957704.62	2273783.85
41	5958169.42	2273821.85
42	5958725.42	2273635.85
43	5959509.42	2273805.85
44	5959858.42	2273707.85
45	5960089.92	2273498.85
46	5960548.52	2272735.85
47	5962163.92	2270453.85
48	5962668.22	2269699.85
49	5962863.22	2269489.85
50	5963108.22	2269327.85
51	5964061.72	2268869.85

NOTES:
DRAWINGS NOT TO BE USED AS 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.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEANIC 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

Mark	Description	Date	Appr.

SUBMITTED: PDI	DESIGNED BY: PDI	CHECKED BY: PDI	DRAWN BY: PDI
Hydro Survey Team Leader	Hydro Survey Team Leader	Hydro Survey Team Leader	Hydro Survey Team Leader
APPROVAL RECOMMENDED: PDI	DATE: 5/17/2011	SHEET NO. 1 OF 7	DRAWING NO. 52 2
CHIEF, Technical Support Section	PREPARED UNDER THE DIRECTION OF TORREY A. DICIRO		
APPROVED: PDI	LT. COLONEL, C.E., DISTRICT ENGINEER		
Chief, Construction Branch			

SONOMA COUNTY	CALIFORNIA	
PETALUMA RIVER CONDITION SURVEY 11-13 MAY 2011		
Sheet reference number C1		