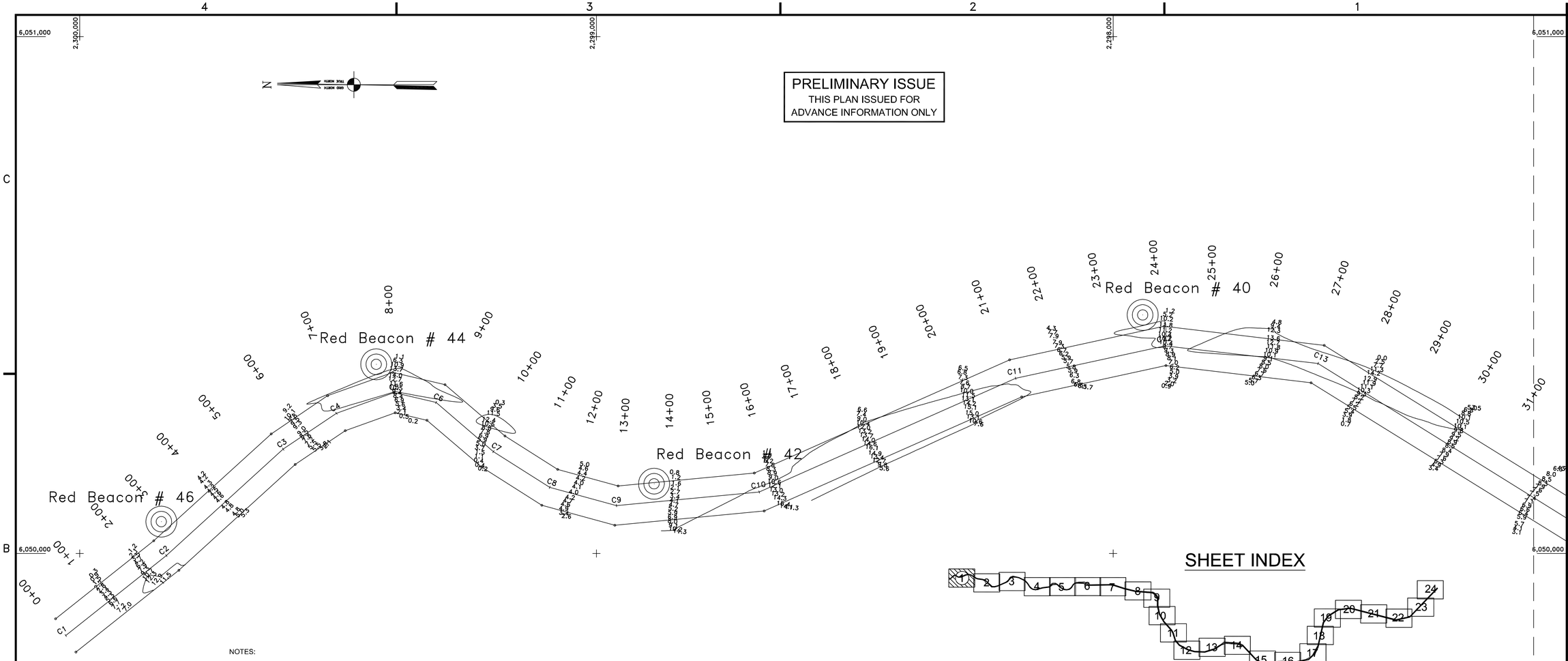

SHEET INDEX

NOTES:

DRAWING 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. 6, 9-11 JUNE 2008.

SOUNDINGS FOR THE OUTSIDE CHANNEL (100 FT. WIDE) TAKEN BY FATHOMETER; THE INSIDE CHANNEL (60 FT. WIDE) 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 CONVERTED TO THE NAVD 88 DATUM.

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 OCEAN SURVEY.

VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

Mon. 20 USC&GS Disk 23.53 MLLW NAVD 88 Datum
Publication Date: 02/05/2004
Lines # 140+00 => 0+00 .... Napa Wine Train Bridge

Mon. Tidal 1 1922 USC&GS Disk 7.86 MLLW NGVD 29 Datum
NAVD 88 Datum by using the closest NOAA conversion (Edgerley Island, Napa River #941-5415)
9.1 MLLW NAVD 88 Datum
Lines # 400+00 => 190+00 ... Brazos Drawbridge

Mon. Tidal 1 1922 USC&GS Disk 7.86 MLLW NGVD 29 Datum
TBM @ concrete edge of Brazos Drawbridge 9.26 MLLW NGVD 29 Datum
NAVD 88 Datum by using the closest NOAA conversion (Edgerley Island #941-5415 conversion (0.22 MLLW)
TBM @ Brazos Drawbridge
9.1 MLLW ... NAVD 88 Datum
Lines # 540+00 => 390+00 ... Brazos Drawbridge

Mon. Mare ID 8 1936 USC&GS Disk 21.62 MLLW NGVD 29 Datum
Bestor Eng. Cap Dock 1995 2" Disk RC 15310 11.81 MLLW
NGVD 29 Datum ... Mare Island Pier 56
NAVD 88 Datum by using the closest NOAA conversion (Mare Island Naval Shipyard, Carquinez Strait #941-5218)
11.6 MLLW ... NAVD 88 Datum
Lines # 692+00 => 540+00 ... Mare Island ... Pier 56

PROJECT DEPTH IS 15 FEET FROM ENTRANCE AT THE MARE ISLAND CAUSEWAY TO AYLUM SLOUGH, THENCE 10 FEET TO HEAD OF NAVIGATION.

NAD 83
CHANNEL ANGLE POINTS

∠ PT	X	Y	∠ PT	X	Y	∠ PT	X	Y	∠ PT	X	Y	∠ PT	X	Y
1	6049873.57	2300046.64	47	6049529.47	2285146.44	93	6046295.27	2255227.24	139	6049190.67	2287601.84			
2	6050024.67	2298956.64	48	6049530.77	2284491.14	94	6045574.57	2256390.54	140	6049243.67	2287705.64			
3	6050231.27	2299629.34	49	6049226.77	2283841.84	95	6044829.57	2256914.24	141	6049210.67	2288166.34			
4	6050305.17	2299520.14	50	6049268.97	2281248.54	96	6041981.27	2257566.34	142	6048922.87	2288516.44			
5	6050350.27	2299393.74	51	6048820.67	2279884.34	97	6041162.17	2258023.54	143	6048831.47	2289301.14			
6	6050326.57	2299292.84	52	6048508.67	2278592.34	98	6040567.87	2259659.04	144	6048602.27	2290109.14			
7	6050227.27	2299176.84	53	6048361.67	2276586.34	99	6040216.47	2260379.94	145	6048661.57	2290447.34			
8	6050162.57	2299074.94	54	6048224.67	2276357.34	100	6040339.47	2261458.94	146	6048756.57	2290621.34			
9	6050130.67	2298957.84	55	6047934.67	2276096.34	101	6040309.17	2262182.24	147	6048887.57	2290758.24			
10	6050155.67	2298694.34	56	6047695.67	2275999.34	102	6040008.17	2263335.04	148	6049021.57	2290872.64			
11	6050374.67	2298200.34	57	6046816.67	2276013.34	103	6040056.67	2263787.24	149	6049362.87	2291081.64			
12	6050439.67	2297901.34	58	6045857.67	2275806.34	104	6040535.87	2264731.14	150	6049682.17	2291392.64			
13	6050402.67	2297591.34	59	6044974.67	2275292.34	105	6042092.17	2266208.54	151	6049759.67	2291553.54			
14	6049965.67	2296886.34	60	6044027.67	2274440.34	106	6042363.87	2266814.94	152	6049988.27	2292043.64			
15	6049852.97	2296190.84	61	6043687.67	2274244.34	107	6042461.77	2268207.44	153	6050071.17	2292414.14			
16	6049747.67	2295876.34	62	6042827.67	2273971.34	108	6042271.07	2268696.74	154	6050078.67	2292731.34			
17	6049027.67	2295116.54	63	6042289.67	2273516.34	109	6041765.47	2269501.94	155	6049997.67	2292940.34			
18	6049027.67	2294825.54	64	6041777.67	2272546.34	110	6041425.07	2270626.74	156	6049759.67	2293176.34			
19	6049130.67	2294461.94	65	6041569.67	2271791.34	111	6041470.17	2271806.74	157	6049616.67	2293271.34			
20	6049535.47	2293521.84	66	6041525.67	2270640.34	112	6041684.17	2272583.44	158	6049492.27	2293419.84			
21	6049757.67	2293286.34	67	6041855.57	2269548.34	113	6042209.87	2273580.14	159	6049039.97	2294470.34			
22	6050093.67	2293038.34	68	6042372.87	2268724.04	114	6042778.37	2274060.64	160	6048937.67	2294831.34			
23	6050217.67	2292725.34	69	6042635.67	2268399.34	115	6043647.07	2274336.34	161	6048937.67	2295181.34			
24	6050059.67	2292019.34	70	6042521.47	2268775.44	116	6043968.57	2274521.74	162	6049236.17	2295496.34			
25	6049827.47	2291521.44	71	6042293.47	2266266.44	117	6044915.47	2275373.54	163	6049392.27	2295857.94			
26	6049743.97	2291348.14	72	6040617.67	2264671.34	118	6045821.07	2275900.74	164	6049605.67	2295911.34			
27	6049409.27	2291022.14	73	6040160.57	2263771.04	119	6046806.77	2276113.54	165	6049778.67	2296201.34			
28	6049065.77	2290811.74	74	6040114.97	2263317.64	120	6047548.97	2276101.64	166	6049874.47	2296881.54			
29	6048939.07	2290703.64	75	6040408.67	2262196.34	121	6047853.87	2276225.44	167	6050330.17	2297616.74			
30	6048817.67	2290576.74	76	6040439.67	2261455.34	122	6048114.07	2276459.54	168	6050363.67	2297897.74			
31	6048633.37	2290422.34	77	6040317.67	2260304.34	123	6048226.67	2276626.34	169	6050302.97	2298176.94			
32	6048679.07	2290113.14	78	6040601.67	2258993.34	124	6048279.57	2276834.64	170	6050082.17	2298675.14			
33	6048905.17	2289316.14	79	6040860.67	2258492.34	125	6048409.57	2278607.84	171	6050054.67	2298964.34			
34	6048982.87	2288687.44	80	6041115.47	2258219.34	126	6048724.37	2279911.74	172	6050093.27	2299105.54			
35	6049000.67	2288543.54	81	6042227.87	2257612.54	127	6049106.27	2281073.74	173	6050166.77	2299221.54			
36	6049320.77	2288276.54	82	6044872.97	2257005.84	128	6049165.47	2281463.74	174	6050257.77	2299327.74			
37	6049392.67	2288149.34	83	6045649.57	2256449.54	129	6049122.77	2284092.54	175	6050272.17	2299389.34			
38	6049394.67	2287836.34	84	6046392.27	2255264.24	130	6049364.97	2284613.94	176	6050237.67	2299486.04			
39	6049251.67	2287556.34	85	6046565.17	2253882.84	131	6049371.67	2285524.34	177	6050172.17	2299582.84			
40	6048947.67	2287266.34	86	6045207.47	2248599.84	132	6049230.67	2285737.34	178	6049967.47	2299807.94			
41	6048702.67	2286771.34	87	6045556.47	2247042.94	133	6048875.07	2285969.14	179	6049809.17	2300007.14			
42	6048675.67	2286525.34	88	6048864.47	2243853.94	134	6048667.47	2286204.44						
43	6048736.67	2286239.34	89	6048776.47	2243801.94	135	6048599.77	2286521.54						
44	6048924.67	2286026.34	90	6045465.77	2246990.64	136	6048629.57	2286792.74						
45	6049286.67	2285788.34	91	6045104.57	2248601.44	137	6048879.77	2287298.14						
46	6049459.67	2285026.34	92	6046463.57	2253889.24	138	6048886.47	2287311.64						

NAD 83
CENTERLINE ANGLE POINTS

∠ PT	X	Y	∠ PT	X	Y
1	6049841.27	2300026.94	49	6049415.67	2285525.34
2	6049996.07	2299832.24	50	6049450.57	2285335.44
3	6050201.77	2299606.14	51	6049447.87	2284552.54
4	6050271.37	2299503.04	52	6049174.77	2283967.14
5	6050311.17	2299391.54	53	6049217.17	2281356.14
6	6050292.17	2299310.24	54	6049187.67	2281161.14
7	6050197.07	2299199.14	55	6048772.57	2279898.04
8	6050127.97	2299090.24	56	6048459.07	2278600.14
9	6050092.67	2298961.04	57	6048320.67	2276710.44
10	6050118.87	2298684.74	58	6048294.17	2276606.34
11	6050338.87	2298188.64	59	6048169.37	2276408.44
12	6050401.67	2297899.54	60	6047894.27	2276160.84
13	6050367.67	2297603.34	61	6047622.37	2276050.54
14	6049910.47	2296868.44	62	6046811.77	2276063.44
15	6049815.77	2296196.14	63	6045839.37	2275853.54
16	6049676.67	2295893.84	64	6044945.07	2275332.94
17	6048982.67	2295148.94	65	6043998.17	2274481.04
18	6048982.67	2294828.44	66	6043667.37	2274290.34
19	6049085.27	2294466.14	67	6042802.97	2274015.64
20	6049513.87	2293470.84	68	6042249.97	2273548.24
21	6049687.17	2293268.84	69	6041519.97	2271799.04
22	6049758.67	2293221.34	70	6041475.37	2270633.54
23	6050063.67	2292989.34	71	6041810.47	2269525.24
24	6050148.17	2292728.04	72	6042321.97	2268710.44
25	6050106.87	2292401.94	73	6042548.77	2268303.34
26	6050023.97	2292031.54	74	6042442.67	2266795.24
27	6049793.57	2291537.54	75	6042192.87	2266237.54
28	6049713.07	2291370.44	76	6040576.77	2264701.24
29	6049386.07	2291051.84	77	6040108.67	2263779.14
30	6049043.67	2290842.14	78	6040061.57	2263326.34
31	6048913.27	2290730.94	79	6040358.97	2262189.24
32	6048787.07	2290599.04	80	6040389.57	2261457.14
33	6048697.47	2290434.94	81	6040267.07	2260382.14
34	6048640.67	2290111.14	82	6040984.77	2258826.14
35	6048868.27	2289308.54	83	6040714.27	2258575.64
36	6048944.57	2288695.24	84	6041138.77	2258121.74
37	6048961.77	2288529.94	85	6042103.77	2257586.34
38	6049265.67	2288221.44	86	6044851.27	2256960.04
39	6049301.67	2288140.84	87	6045612.07	2256415.04
40	6049313.67	2287847.84	88	6046343.47	2255244.34
41	6049319.17	2287770.94	89	6046514.37	2253886.04
42	6049221.17	2287579.04	90	6045155.97	2248600.64
43	6048913.67	2287282.24	91	6045511.07	2247016.84
44	6048666.17	2286782.04	92	6048819.87	2243829.54
45	6048637.77	2286523.44			
46	6048702.07	2286224.34			
47	6048899.87	2285997.74			
48	6049258.67	2285762.84			

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

Mark	Description	Date	Appr.

DESIGNED BY: MC
DRAWN BY: EWC
CHECKED BY: TVW
DRAWING NO. 2
SHEET NO. 1 OF 24
SHEET NO. 50
SHEET NO. 165
DATE: 6/13/2008
PREPARED UNDER THE DIRECTION OF
CRAIG W. KILEY
LT. COLONEL, C.E., DISTRICT ENGINEER

SUBMITTED: Hydro Survey Team Leader
APPROVAL RECOMMENDED: Chief, Technical Support Section
APPROVED: Chief, Construction Branch

CALIFORNIA
NAPA COUNTY
NAPA RIVER
CONDITION SURVEY
06, 9-11 JUNE 2008
MATCHLINE - SHEET 2

Sheet reference number
C1