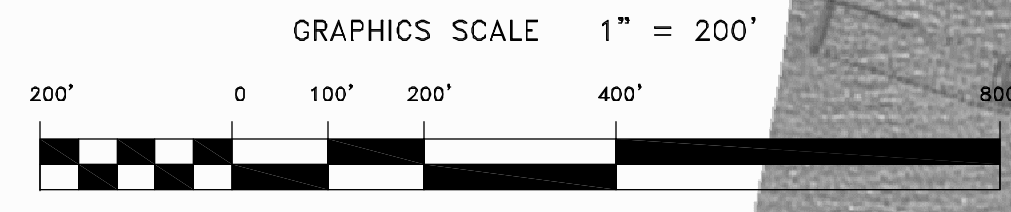
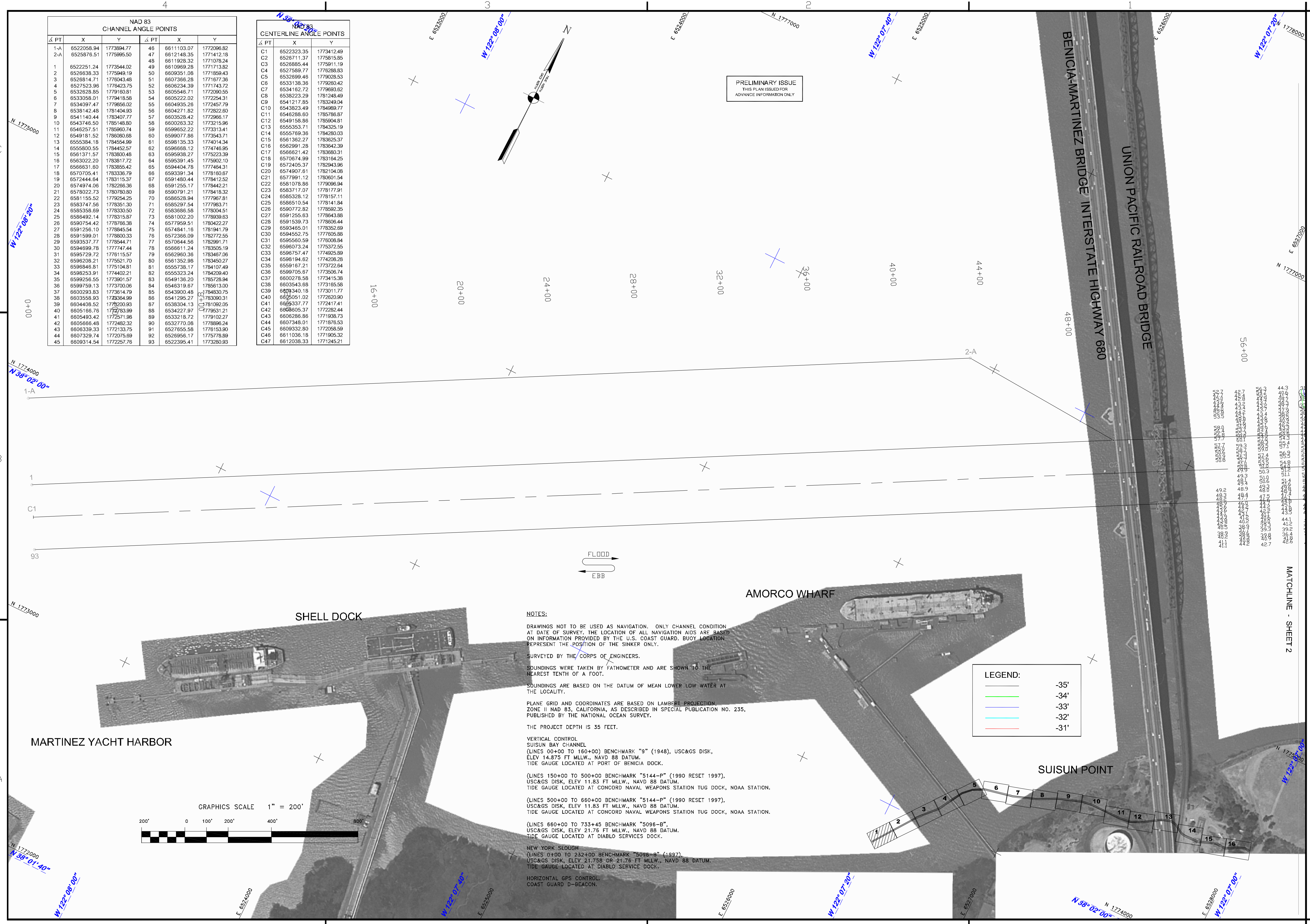


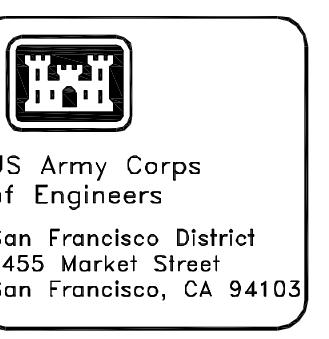
NAD 83 CHANNEL ANGLE POINTS					
LINE	PT	X	Y	LINE	PT
1-A	6522058.94	1773894.77	46	6611103.07	1772096.82
2-A	6525876.51	1775995.50	47	6612148.35	1771412.18
1	6522251.24	1775544.02	48	6611928.32	1771078.24
2	6526638.33	1775949.19	49	6610969.28	1771132.82
3	6526814.71	1776043.48	50	6609351.08	1771859.43
4	6527523.96	1776423.75	51	6607385.28	1771677.36
5	6532628.85	1779160.81	52	6606234.39	1771743.72
6	6533058.01	1779418.58	53	6605548.71	1772090.55
7	6534087.47	1779654.02	54	6605222.02	1772254.31
8	6538142.46	1781404.93	55	6604935.28	1772457.79
9	6541140.44	1783407.77	56	6604271.82	1772822.60
10	6543746.50	1785148.80	57	6603528.42	1772966.17
11	6548257.51	1785960.74	58	6602632.32	1773215.96
12	6549181.52	1786360.88	59	6599652.22	1773313.41
13	6553394.18	1786554.99	60	6599077.86	1773543.71
14	6558003.55	1784452.57	61	6598135.33	1774014.34
15	6561371.57	1783800.48	62	6596888.12	1774746.95
16	6563022.20	1783817.72	63	6595938.27	1775223.39
17	6566631.60	1783855.42	64	6595391.45	1775902.10
18	6570705.41	1783336.79	65	6594404.78	1777484.31
19	6572444.64	1783115.37	66	6593391.34	1778190.67
20	6574974.06	1782266.36	67	6591480.44	1778412.52
21	6578022.73	1780780.80	68	65891255.17	1778442.21
22	6581155.52	1779254.25	69	6590791.21	1778418.32
23	6583747.56	1778351.30	70	6588528.94	1777967.81
24	6585358.69	1778330.50	71	6585297.54	1777983.71
25	6586492.14	178315.87	72	6583898.58	1778304.51
26	6590754.42	178768.38	73	6581002.20	1778939.83
27	6591256.10	178845.54	74	6577959.51	1780222.27
28	6591599.01	178800.33	75	6574841.16	1781941.79
29	6593537.77	178544.71	76	6572366.09	1782772.55
30	6594698.78	177747.44	77	6570644.56	1782991.71
31	6595729.72	1776115.57	78	6568611.24	1783325.19
32	6596208.21	1775521.70	79	6562980.38	1783467.06
33	6596846.81	1775104.81	80	6561352.98	1783450.27
34	6598253.91	1774402.21	81	6555738.17	1784107.49
35	6599256.55	1773901.57	82	6555323.24	1784209.40
36	6599759.13	1773703.06	83	6549136.20	1785728.94
37	6600293.83	1773614.79	84	6546319.67	1785133.00
38	6603558.93	1773364.99	85	6543900.48	1784830.75
39	6604408.52	1773200.93	86	6541295.27	1783990.31
40	6605166.76	1772783.99	87	6538304.13	1781092.05
41	6605493.42	1772571.96	88	6534227.97	1779531.21
42	6605666.48	1772482.32	89	6533218.72	1779102.27
43	6606339.33	1772133.75	90	6532770.08	1778986.24
44	6607329.74	1772076.69	91	6527655.58	1778153.90
45	6609314.54	1772257.76	92	6528956.17	1775778.89
			93	6522395.41	1773280.93

CENTERLINE ANGLE POINTS		
LINE	PT	COORDINATES (X, Y)
C1	6522323.35	1773412.49
C2	6526711.37	1775815.85
C3	6526895.44	1775911.19
C4	6527589.77	1776288.83
C5	6532899.46	1779028.53
C6	6533138.36	1779280.42
C7	6534182.72	1779693.62
C8	6538223.29	1781248.49
C9	6541217.85	1783249.04
C10	6543823.49	1784989.77
C11	6546286.60	1785786.87
C12	6549158.86	1786804.31
C13	6553353.71	1784325.19
C14	6555769.38	1784280.03
C15	6561382.27	1783625.37
C16	6562991.28	1783642.39
C17	6566821.42	1783680.31
C18	6570674.99	1783184.25
C19	6572405.37	1782943.96
C20	6574907.61	1782104.08
C21	6577991.12	1780601.54
C22	6581078.86	1779096.94
C23	6583717.07	1778177.91
C24	6585328.12	1778157.11
C25	6588510.54	1778141.94
C26	6590772.82	1778592.35
C27	6591255.63	1778643.88
C28	6591539.73	1778606.44
C29	6593465.01	1778352.69
C30	6594552.75	1777605.88
C31	6595560.59	1778008.94
C32	6598073.24	1775372.55
C33	6598757.47	1774925.89
C34	6598194.62	1774208.28
C35	6598167.21	1773722.84
C36	6599705.87	1773506.74
C37	6600278.58	1773415.38
C38	6603543.68	1773165.58
C39	6608340.18	1773011.77
C40	6605051.02	1772820.90
C41	6605937.77	1772417.41
C42	6606805.37	1772282.44
C43	6606286.86	1771938.73
C44	6607348.01	1771876.53
C45	6609332.80	1772058.59
C46	6611036.18	1771905.32
C47	6612038.33	1771245.21



LEGEND:	
— (black)	-35'
— (green)	-34'
— (blue)	-33'
— (cyan)	-32'
— (red)	-31'

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 LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.
SURVEYED BY THE CORPS OF ENGINEERS.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
THE PROJECT DEPTH IS 35 FEET.
VERTICAL CONTROL
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK, ELEV 14.875 FT MLW., NAVD 88 DATUM. TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.
(LINES 150+00 TO 500+00 BENCHMARK "5144-P" (1990 RESET 1997), USC&GS DISK, ELEV 11.83 FT MLW., NAVD 88 DATUM. TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.
(LINES 500+00 TO 650+00 BENCHMARK "5144-P" (1990 RESET 1997), USC&GS DISK, ELEV 11.83 FT MLW., NAVD 88 DATUM. TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.
(LINES 650+00 TO 733+45 BENCHMARK "5096-B", USC&GS DISK, ELEV 21.76 FT MLW., NAVD 88 DATUM. TIDE GAUGE LOCATED AT DIABLO SERVICES DOCK.
NEW YORK SLOUGH
(LINES 0+00 TO 232+00 BENCHMARK "5096-B" (1997), USC&GS DISK, ELEV 21.758 OR 21.76 FT MLW., NAVD 88 DATUM. TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.
HORIZONTAL GPS CONTROL
COAST GUARD D-BEACON.



Work	Date	Appr.

DATE	SHEET NO.	PDT	DRAWING NO.	DRAWN BY	CHECKED BY	DESIGNED BY	APPROVED:
05/03/2011	1 OF 16	4	2	XXX	PREPARED UNDER THE DIRECTION OF	TORREY A. DICIRO	LT. COLONEL, C.E., DISTRICT ENGINEER

CALIFORNIA
CONTRA COSTA COUNTY
SUISUN BAY CHANNEL
CONDITION SURVEY
6-7, 14-15, 18&20 APRIL 2011

Sheet reference number
G1