NAD 83 CHANNEL ANGLE POINTS					
∠ PT	X	Y	∠ PT	X	Y
1-A	6522058.94	1773894.77	46	6611103.07	1772096.82
2-A	6525876.51	1775995.50	47	6612148.35	1771412.18
			48	6611928.32	1771078.24
1	6522251.24	1773544.02	49	6610969.28	1771713.82
2	6526638.33	1775949.19	50	6609351.08	1771859.43
3	6526814.71	1776043.48	51	6607366.28	1771677.36
4	6527523.96	1776423.75	52	6606234.39	1771743.72
5	6532628.85	1779160.81	53	6605546.71	1772090.55
6	6533058.01	1779418.58	54	6605222.02	1772254.31
7	6534097.47	1779856.02	55	6604935.26	1772457.79
8	6538142.48	1781404.93	56	6604271.82	1772822.60
9	6541140.44	1783407.77	57	6603528.42	1772966.17
10	6543746.50	1785148.80	58	6600263.32	1773215.96
11	6546257.51	1785960.74	59	6599652.22	1773313.41
12	6549181.52	1786080.68	60	6599077.86	1773543.71
13	6555384.18	1784554.99	61	6598135.33	1774014.34
14	6555800.55	1784452.57	62	6596668.12	1774746.95
15	6561371.57	1783800.48	63	6595938.27	1775223.39
16	6563022.20	1783817.72	64	6595391.45	1775902.10
17	6566631.60	1783855.42	65	6594404.78	1777464.31
18	6570705.41	1783336.79	66	6593391.34	1778160.67
19	6572444.64	1783115.37	67	6591480.44	1778412.52
20	6574974.06	1782266.36	68	6591255.17	1778442.21
21	6578022.73	1780780.80	69	6590791.21	1778418.32
22	6581155.52	1779254.25	70	6586526.94	1777967.81
23	6583747.56	1778351.30	71	6585297.54	1777983.71
24	6585358.69	1778330.50	72	6583686.58	1778004.51
25	6586492.14	1778315.87	73	6581002.20	1778939.63
26	6590754.42	1778766.38	74	6579559.51	1780422.27
27	6591256.10	1778845.54	75	6574841.79	1781941.79
28	6591599.01	1778800.33	76	6572366.09	1782772.55
29	6593537.77	1778544.71	77	6570644.56	1782991.71
30	6594699.78	1777747.44	78	6566611.24	1783505.19
31	6595729.72	1776115.57	79	6562960.36	1783467.06
32	6596208.21	1775521.70	80	6561352.98	1783450.27
33	6596846.81	1775104.81	81	6555738.17	1784107.49
34	6598253.91	1774402.21	82	6555323.24	1784209.40
35	6599256.55	1773901.57	83	6549136.20	1785728.94
36	6599759.13	1773700.06	84	6546319.67	1785613.00
37	6600293.83	1773614.79	85	6543900.48	1784830.75
38	6603558.93	1773364.99	86	6541295.27	1783090.31
39	6604408.52	1773200.93	87	6538304.13	1781092.05
40	6605166.76	1772783.99	88	6534227.97	1779531.21
41	6605493.42	1772571.98	89	6533216.72	1779102.27
42	6605666.48	1772482.32	90	6532770.08	1778896.24
43	6606339.33	1772133.75	91	6527655.58	1776153.90
44	6607329.74	1772075.69	92	6526956.17	1775778.89
45	6609314.54	1772257.76	93	6522395.41	1773280.93

NAD 83 CENTERLINE ANGLE POINTS		
∠ PT	X	Y
C1	6522323.35	1773412.49
C2	6526711.37	1775815.85
C3	6526885.44	1775911.19
C4	6527589.77	1776288.83
C5	6532699.46	1779028.53
C6	6533138.36	1779260.42
C7	6534162.72	1779693.62
C8	6538223.29	1781248.49
C9	6541217.85	1783249.04
C10	6543823.49	1784989.77
C11	6546288.60	1785786.87
C12	6549158.86	1785904.81
C13	6555353.71	1784325.19
C14	6555769.36	1784280.03
C15	6561362.27	1783625.37
C16	6562991.28	1783642.39
C17	6566621.42	1783680.31
C18	6570674.99	1783164.25
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	6586510.54	1778141.84
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	1776008.84
C32	6596073.24	1775372.55
C33	6596757.47	1774925.89
C34	6598194.62	1774208.28
C35	6599167.21	1773722.64
C36	6599705.67	1773506.74
C37	6600278.58	1773415.38
C38	6603543.68	1773165.58
C39	6604340.18	1773011.77
C40	6605051.02	1772620.90
C41	6605337.77	1772417.41
C42	6605605.37	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	1772245.21

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

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, APRIL 25-30, 2007.

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. NAVD 88.

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 MLLW., 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 MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 500+00 TO 660+00 BENCHMARK "5144-P" (1990 RESET 1997), USC&GS DISK, ELEV 11.83 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45 BENCHMARK "5096-B", USC&GS DISK, ELEV 21.76 FT MLLW., 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 MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL.
COAST GUARD D-BEACON.

GRAPHICS SCALE 1" = 200'
200' 0 100' 200' 400' 800'

US Army Corps of Engineers
San Francisco District
333 Market Street
San Francisco, CA 94105

Mark	Description	Date	Appr.

DESIGNED BY:	CHECKED BY:	DRAWN BY:
	TVW	FC

SUBMITTED:	DATE:	SHEET NO.	DRAWING NO.	
Survey Section, Team Leader		1 OF 16	4	2 231
APPROVAL RECOMMENDED:	10/10/2007			
Chief, Technical Support Section				
APPROVED:				
Chief, Construction Branch				

PREPARED UNDER THE DIRECTION OF
CRAIG W. KILEY
LT. COLONEL, C.E., DISTRICT ENGINEER

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
PREDREDGE SURVEY
11, 12, 14, 18, 20 & 21 SEPTEMBER 2007

Sheet reference number
C1

MATCHLINE - SHEET 2