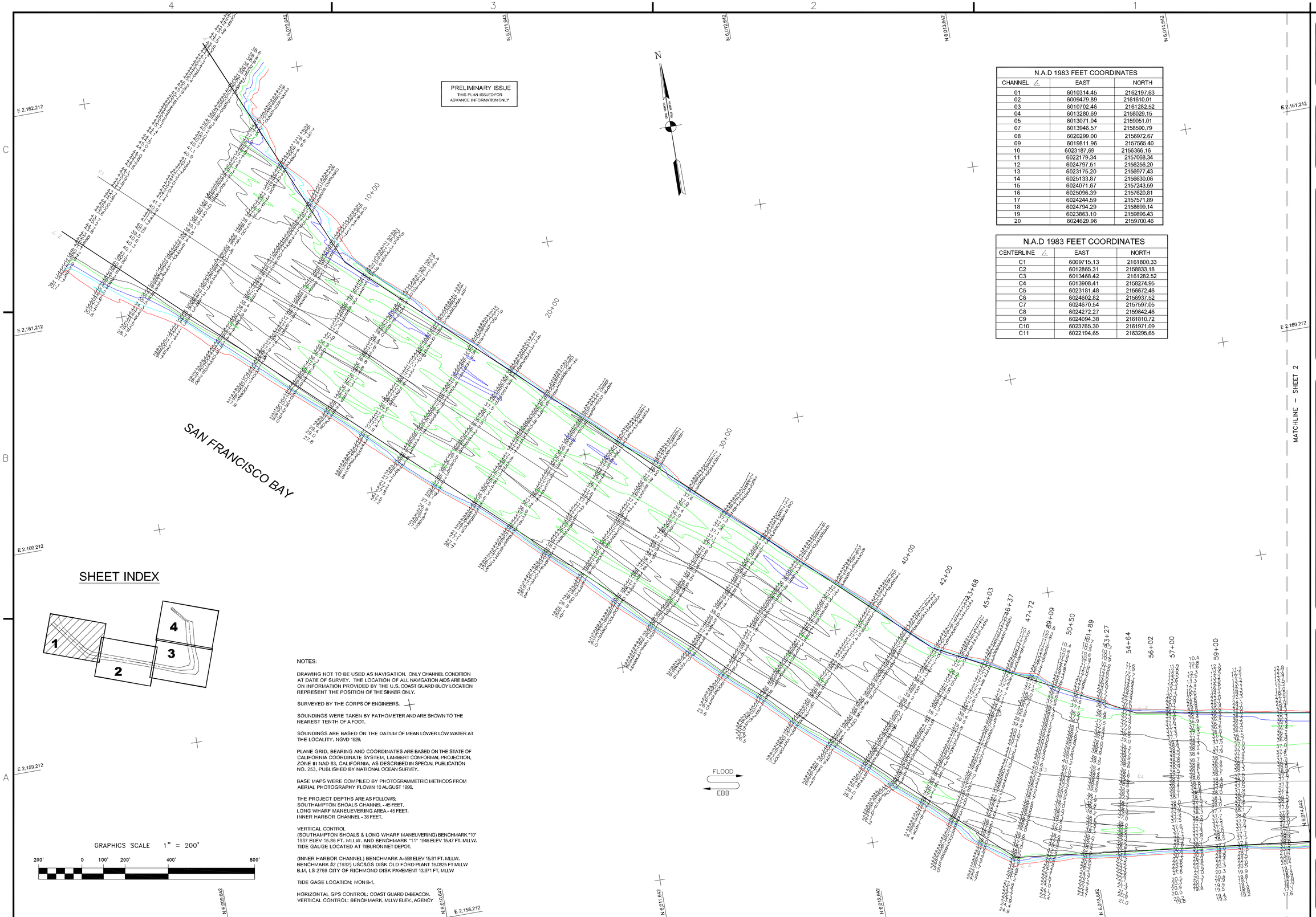
PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



N.A.D 1983 FEET COORDINATES		
CHANNEL ∠	EAST	NORTH
01	6010314.45	2162197.63
02	6009479.89	2161610.01
03	6010702.46	2161282.52
04	6013280.69	2158029.15
05	6013071.04	2159051.01
07	6013946.57	2158590.79
08	6020299.00	2156972.67
09	6019811.96	2157565.40
10	6023187.69	2156366.16
11	6022179.34	2157068.34
12	6024797.51	2156256.20
13	6023175.20	2156977.43
14	6025133.87	2156630.06
15	6024071.67	2157243.59
16	6025096.39	2157620.81
17	6024244.59	2157571.89
18	6024794.29	2158899.14
19	6023863.10	2159896.43
20	6024629.96	2159700.46

N.A.D 1983 FEET COORDINATES		
CENTERLINE ∠	EAST	NORTH
C1	6009715.13	2161800.33
C2	6012865.31	2158833.18
C3	6013468.42	2161282.52
C4	6013908.41	2158274.95
C5	6023181.48	2156672.46
C6	6024602.82	2156937.52
C7	6024670.54	2157597.05
C8	6024272.27	2159642.46
C9	6024094.38	2161810.72
C10	6023765.30	2161971.09
C11	6022194.65	2163206.65

SHEET INDEX

GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

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 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. NGVD 1929.

PLANE GRID, BEARING 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. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS WERE COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN 10 AUGUST 1996.

THE PROJECT DEPTHS ARE AS FOLLOWS:
SOUTHAMPTON SHOALS CHANNEL - 45 FEET.
LONG WHARF MANEUEVERING AREA - 45 FEET.
INNER HARBOR CHANNEL - 38 FEET.

VERTICAL CONTROL
(SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK "10" 1937 ELEV 15.85 FT. MLLW. AND BENCHMARK "11" 1946 ELEV 15.47 FT. MLLW. TIDE GAUGE LOCATED AT TIBURON NET DEPOT.

(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW. BENCHMARK #2 (1932) USC&GS DISK OLD FORD PLANT 15.0825 FT MLLW B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW

TIDE GAGE LOCATION: MON B-1.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

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	EWC
DATE:	SHEET NO.	DRAWING NO.
3/8/2006	1 OF 4	9 2 343

PREPARED UNDER THE DIRECTION OF
PHILIP T. FEIR
LT. COLONEL C.E., DISTRICT ENGINEER

SUBMITTED:
Hydro. Survey Team Leader

APPROVAL RECOMMENDED:
Chief, Technical Support Section

APPROVED:
Chief, Construction Branch

CALIFORNIA

ALAMEDA COUNTY

RICHMOND INNER HARBOR
CONDITION SURVEY
10, 14-15 FEBRUARY
3, 6 & 7 MARCH 2006

Sheet reference number
C1