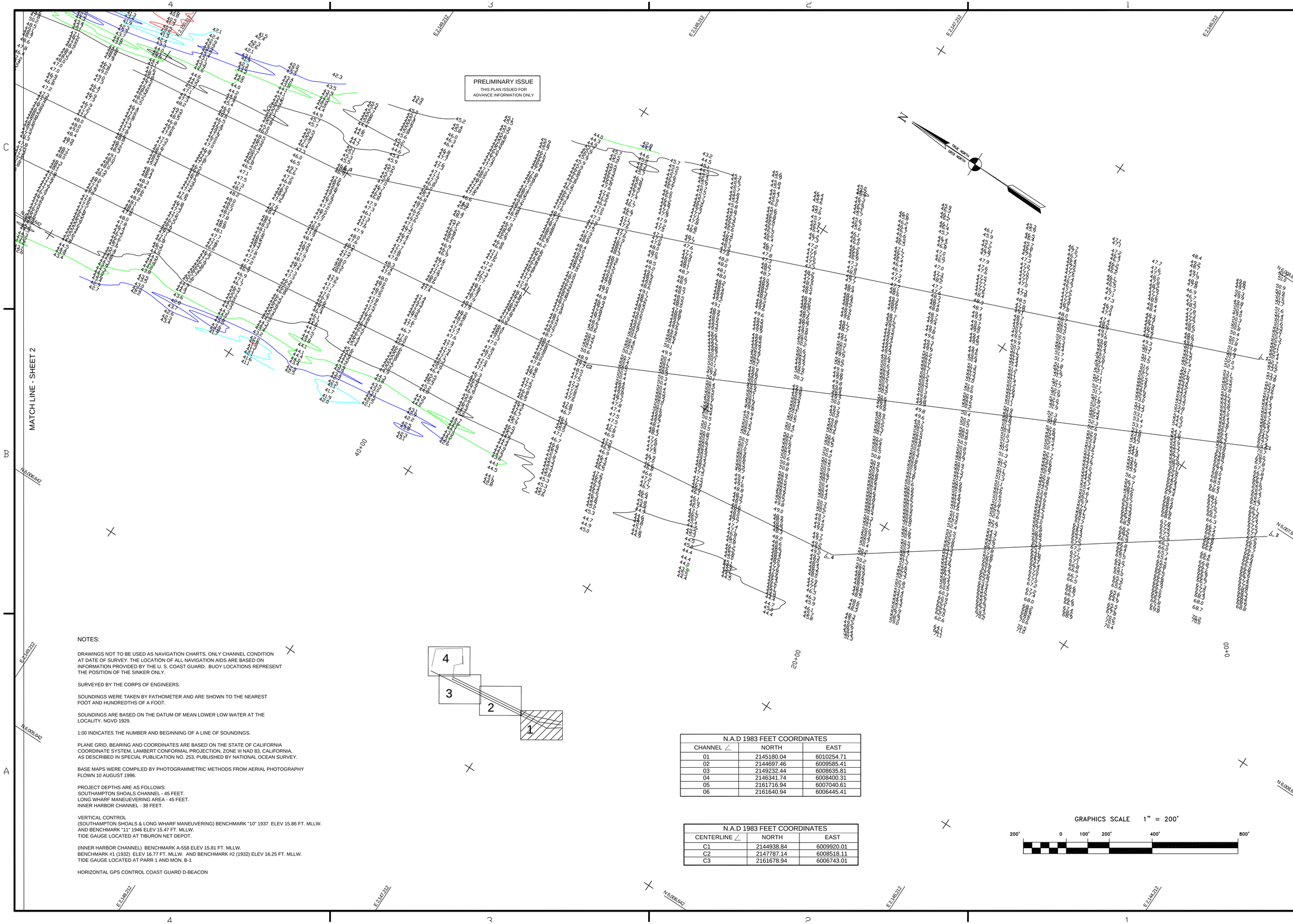

NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION CHARTS. 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 WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND HUNDREDTHS OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. NGVD 1929.

1:00 INDICATES THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.

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.

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 15.86 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 #1 (1932) ELEV 16.77 FT. MLLW. AND BENCHMARK #2 (1932) ELEV 16.25 FT. MLLW.
TIDE GAUGE LOCATED AT PARR 1 AND MON. B-1

HORIZONTAL GPS CONTROL COAST GUARD D-BEACON

N.A.D 1983 FEET COORDINATES		
CHANNEL ∠	NORTH	EAST
01	2145180.04	6010254.71
02	2144697.46	6009585.41
03	2149232.44	6008635.81
04	2146341.74	6008400.31
05	2161716.94	6007040.61
06	2161640.94	6006445.41

N.A.D 1983 FEET COORDINATES		
CENTERLINE ∠	NORTH	EAST
C1	2144938.84	6009920.01
C2	2147787.14	6008518.11
C3	2161678.94	6006743.01

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

Mark	Description	Date	Appr.

DESIGNED BY:	CHECKED BY: PC	DRAWN BY: EWC	
DATE: 7/14/2003	SHEET NO. 1 OF 4	DRAWING NO. 9	2 330

PREPARED UNDER THE DIRECTION OF
MICHAEL McCORMICK
LT. COLONEL, C.E., DISTRICT ENGINEER

SUBMITTED: TVW
Hydro Survey Section
APPROVAL RECOMMENDED:
Chief, Engineering Branch
APPROVED:
Chief, Engineering Technical Services Division

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND HARBOR
SOUTH HAMPTON SHOALS
POSTDREDGE SURVEY
9 & 25 JULY 2003

Sheet reference number
C1