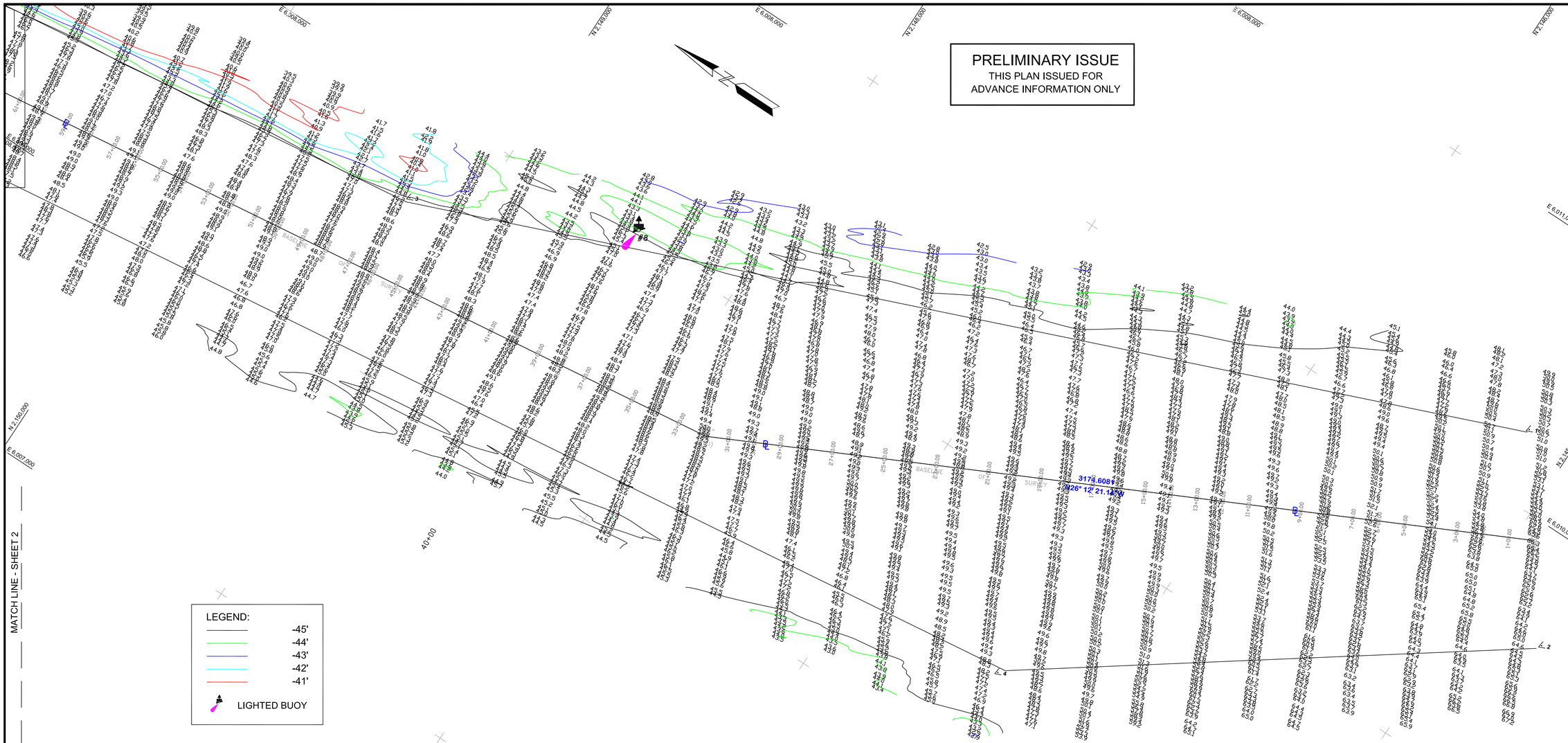


LEGEND:

- -45'
- -44'
- -43'
- -42'
- -41'
- LIGHTED BUOY

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,10-11 MAY 2010.

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.

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

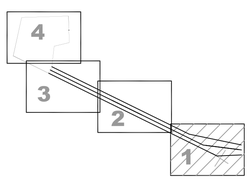
PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

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.

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.

HORIZONTAL CONTROL: DESIGNATION, SOURCE, XYZ
RTK GPS VIA VRS NETWORK



N.A.D 1983, CA, ZONE III GRID		
POINT OF INTERSECTION (P.I.)	EASTING	NORTHING
01	6010254.71	2145180.04
02	6009585.41	2144697.46
03	6008635.81	2149232.44
04	6008400.31	2146341.74
05	6007040.61	2161716.94
06	6006445.41	2161640.94

N.A.D 1983, CA, ZONE III GRID					
POINT OF INTERSECTION (P.I.)	EASTING	NORTHING	℄ STATION	BEARING	DISTANCE
C1	6009920.01	2144938.84	00+00		
				N26° 12' 21.14"W	3,174.61
C2	6008518.11	2147787.14	31+74.61		
				N07° 16' 54.54"W	14,004.75
C3	6006743.01	2161678.94	171+79.36		

GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

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

Mark	Description	Date	Appr.

DESIGNED BY: PDT	CHECKED BY: PDT	DRAWN BY: PDT	
DATE: 14-JUNE2010	SHEET NO. 1 of 4	DRAWING NO. 9	1 XXX

PREPARED UNDER THE DIRECTION OF
LAURENCE M. FARRELL
LT. COLONEL, C.E. DISTRICT ENGINEER

SUBMITTED: PDT
Hydro Survey Team Leader

APPROVAL RECOMMENDED:
STEPHEN P. KILMON, P.S.M.
Chief Survey Section

APPROVED:
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND OUTER HARBOR CHANNEL SOUTHAMPTON SHOALS

CONDITION SURVEY
10-11 MAY 2010

Sheet reference number

G1

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