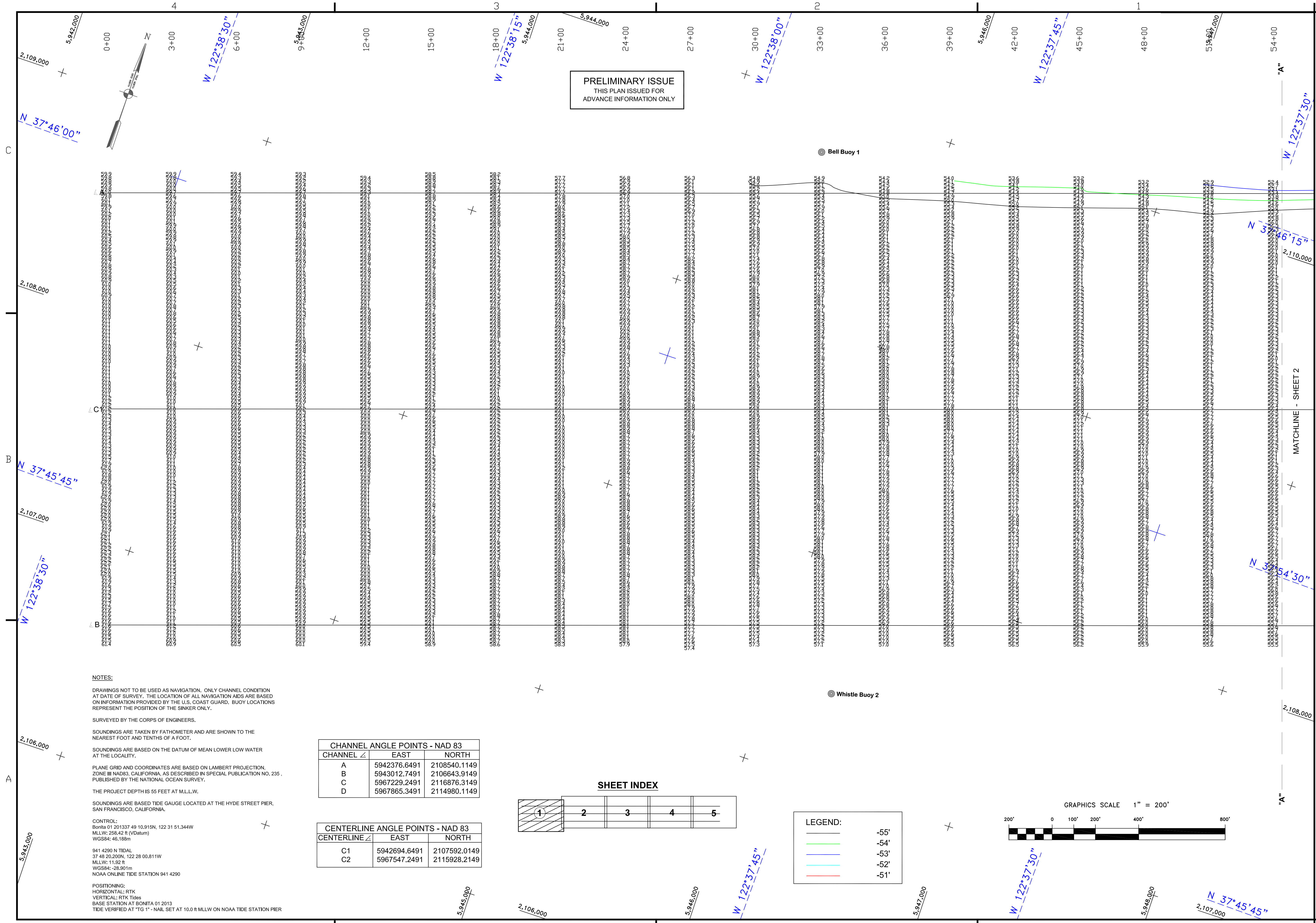


PRELIMINARY ISSUE
 THIS PLAN ISSUED FOR
 ADVANCE INFORMATION ONLY



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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS ARE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND TENTHS 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 III NAD83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 55 FEET AT M.L.L.W.

SOUNDINGS ARE BASED TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.

CONTROL:
 Bonita 01 201337 49 10.915N, 122 31 51.344W
 MLLW: 258.42 ft (VDatum)
 WGS84: 46.189m

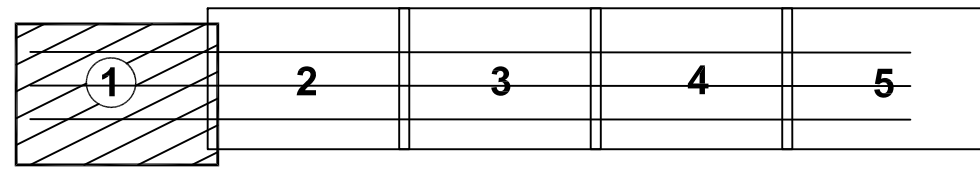
941 4290 N TIDAL
 37 48 20.200N, 122 28 00.811W
 MLLW: 11.52 ft
 WGS84: -28.901m
 NOAA ONLINE TIDE STATION 941 4290

POSITIONING:
 HORIZONTAL: RTK
 VERTICAL: RTK Tides
 BASE STATION AT BONITA 01 2013
 TIDE VERIFIED AT "TG 1" - NAIL SET AT 10.0 ft MLLW ON NOAA TIDE STATION PIER

CHANNEL ANGLE POINTS - NAD 83		
CHANNEL ∠	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

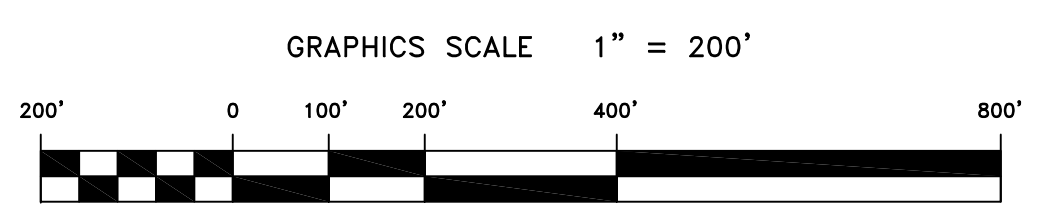
CENTERLINE ANGLE POINTS - NAD 83		
CENTERLINE ∠	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149

SHEET INDEX



LEGEND:

	-55'
	-54'
	-53'
	-52'
	-51'



DESIGNED BY:	CHECKED BY:	DRAWN BY:
PDT	PDT	PDT
Hydro Survey Team Leader		
DATE:	SHEET NO.	DRAWING NO.
2/25/2014	1 OF 5	1 2
APPROVED:	PREPARED UNDER THE DIRECTION OF	
Chief, Hydro Survey Section	JOHN K. BAKER	
	LT. COLONEL, C.E., DISTRICT ENGINEER	
Chief, Construction Branch		

CALIFORNIA
 SAN FRANCISCO BAR
 SAN FRANCISCO MAINSHIP CHANNEL
 CONDITION SURVEY
 24 FEBRUARY 2014

Sheet reference number
 C1

Mark	Description	Date	Appr.