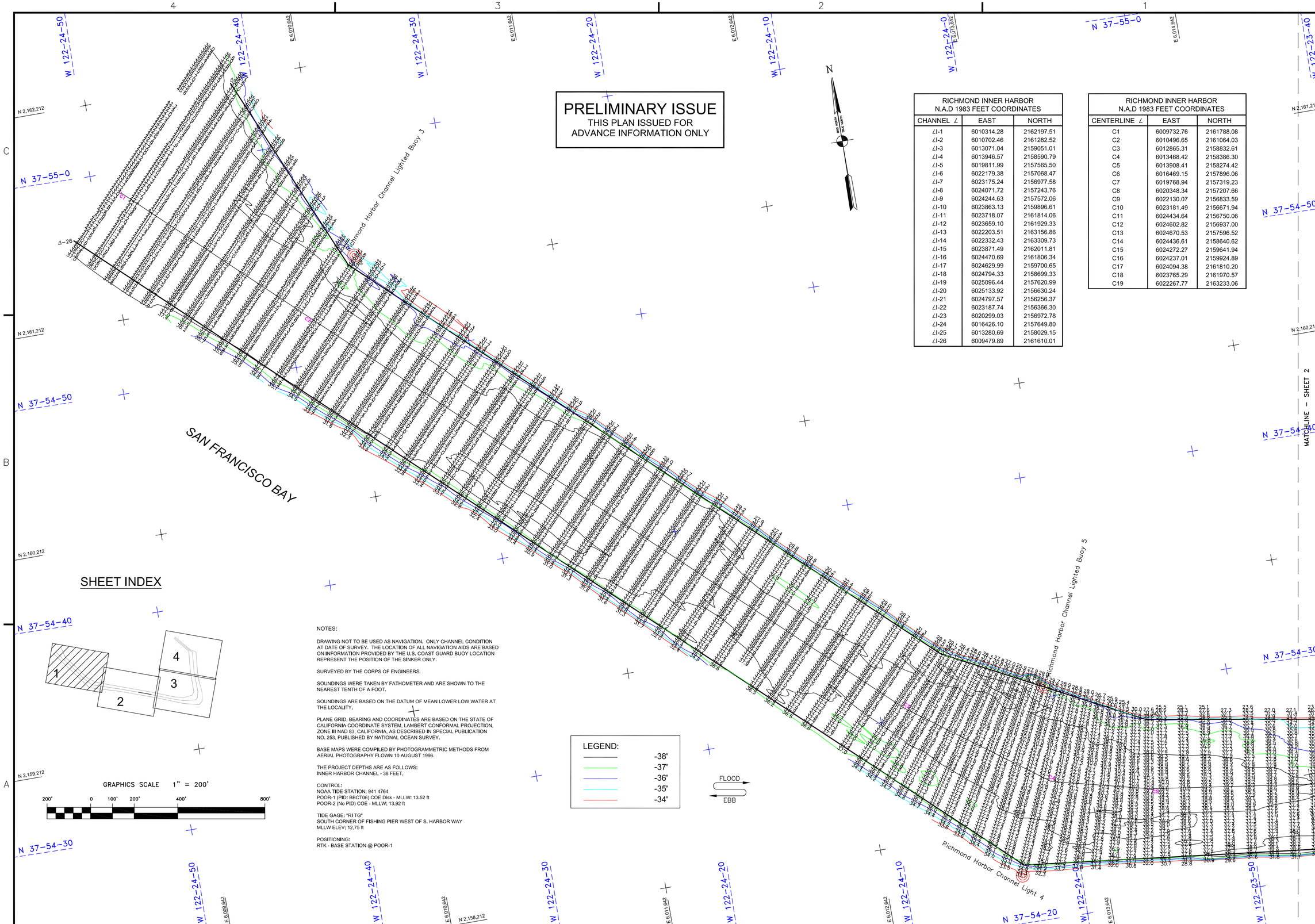

RICHMOND INNER HARBOR N.A.D 1983 FEET COORDINATES		
CHANNEL ∠	EAST	NORTH
∠I-1	6010314.28	2162197.51
∠I-2	6010702.46	2161282.52
∠I-3	6013071.04	2159051.01
∠I-4	6013946.57	2158590.79
∠I-5	6019811.99	2157565.50
∠I-6	6022179.38	2157068.47
∠I-7	6023175.24	2156977.58
∠I-8	6024071.72	2157243.76
∠I-9	6024244.63	2157572.06
∠I-10	6023863.13	2159896.61
∠I-11	6023718.07	2161814.06
∠I-12	6023659.10	2161929.33
∠I-13	6022203.51	2163156.86
∠I-14	6022332.43	2163309.73
∠I-15	6023871.49	2162011.81
∠I-16	6024470.69	2161806.34
∠I-17	6024629.99	2159700.65
∠I-18	6024794.33	2158699.33
∠I-19	6025096.44	2157620.99
∠I-20	6025133.92	2156630.24
∠I-21	6024797.57	2156256.37
∠I-22	6023187.74	2156366.30
∠I-23	6020299.03	2156972.78
∠I-24	6016426.10	2157649.80
∠I-25	6013280.69	2158029.15
∠I-26	6009479.89	2161610.01

RICHMOND INNER HARBOR N.A.D 1983 FEET COORDINATES		
CENTERLINE ∠	EAST	NORTH
C1	6009732.76	2161788.08
C2	6010496.65	2161064.03
C3	6012865.31	2158832.61
C4	6013468.42	2158386.30
C5	6013908.41	2158274.42
C6	6016469.15	2157896.06
C7	6019768.94	2157319.23
C8	6020348.34	2157207.66
C9	6022130.07	2156833.59
C10	6023181.49	2156671.94
C11	6024434.64	2156750.06
C12	6024602.82	2156937.00
C13	6024670.53	2157596.52
C14	6024436.61	2158640.62
C15	6024272.27	2159641.94
C16	6024237.01	2159924.89
C17	6024094.38	2161810.20
C18	6023765.29	2161970.57
C19	6022267.77	2163233.06

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.

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:
INNER HARBOR CHANNEL - 38 FEET.

CONTROL:
NOAA TIDE STATION: 941 4764
POOR-1 (PID: BBCT06) COE Disk - MLLW: 13.52 ft
POOR-2 (No PID) COE - MLLW: 13.92 ft

TIDE GAGE: "RI TG"
SOUTH CORNER OF FISHING PIER WEST OF S. HARBOR WAY
MLLW ELEV: 12.75 ft

POSITIONING:
RTK - BASE STATION @ POOR-1

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: 6/3/2014	SHEET NO. 1 OF 4	DRAWING NO. 9	2 XXX

PREPARED UNDER THE DIRECTION OF
JOHN K. BAKER
LT. COLONEL, C.E., DISTRICT ENGINEER

SUBMITTED: PDT
Hydro Survey Team Leader
APPROVAL RECOMMENDED:
Chief, Hydro Survey Section
APPROVED:
Chief, Construction Branch

CALIFORNIA
ALAMEDA COUNTY

RICHMOND INNER HARBOR
CONDITION SURVEY
28-29 MAY 2014

Sheet reference number
C1