

**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY

NAD 83  
CENTERLINE ANGLE POINTS  
HUMBOLDT BAY  
(BAR & ENTRANCE)

PT	X	Y
C-1	5936273.49	2172157.43
C-2	5938147.59	2171508.43
C-3	5940265.09	2170773.43
C-4	5943553.39	2166602.43
C-5	5944545.29	2166122.43
C-6	5945376.39	2165957.23
C-7	5946085.69	2166728.23
C-8	5946886.99	2167508.33
C-9	5947166.09	2168359.43
C-10	5948049.99	2169917.43
C-11	5948433.89	2170455.43
C-12	5949233.79	2171119.43
C-13	5950417.39	2171891.43
C-14	5951329.29	2172556.43
C-15	5952138.39	2173530.43
C-16	5952999.89	2174705.43
C-17	5953711.89	2180451.43
C-18	5956236.79	2183159.43
C-19	5957823.09	2186978.43
C-20	5958152.59	2187513.43
C-21	5958681.79	2187878.43
C-22	5959281.79	2188078.43
C-23	5959581.79	2189078.43

NAD 83  
CHANNEL ANGLE POINTS  
HUMBOLDT BAY (BAR & ENTRANCE)

PT	X	Y	PT	X	Y
1	5936596.69	2173163.63	24	5959081.79	2187578.43
2	5938385.39	2172268.83	25	5958421.69	2187381.23
3	5940404.09	2171258.93	26	5958007.99	2186903.83
4	5943666.09	2169944.43	27	5958425.99	2183903.63
5	5944727.49	2166468.93	28	5958165.59	2181942.63
6	5945239.99	2166690.33	29	5958348.69	2181424.83
7	5945752.59	2166911.73	30	5958666.99	2180383.43
8	5946464.09	2167331.33	31	5958163.09	2174904.63
9	5946953.59	2168479.53	32	5958200.39	2173413.53
10	5947831.69	2170042.13	33	5958156.79	2172459.53
11	5948193.09	2170679.33	34	5958252.69	2171724.13
12	5949124.59	2171287.03	35	5949343.09	2170952.03
13	5950308.09	2172059.13	36	5948674.79	2170232.13
14	5951141.79	2172853.23	37	5948301.49	2169794.33
15	5951976.39	2173548.23	38	5947989.59	2169242.23
16	5952816.79	2174808.43	39	5948007.49	2167381.23
17	5953484.79	2180520.43	40	5946431.39	2166537.23
18	5954047.79	2183225.33	41	5945672.89	2165182.43
19	5954736.19	2186978.43	42	5945354.09	2162524.63
20	5955788.59	2187647.53	43	5944363.09	2165776.33
21	5956881.79	2188078.43	44	5943441.39	2162611.63
22	5958081.79	2188078.43	45	5943125.19	2172287.83
23	5959681.79	2188378.43	46	5937908.79	2170746.43
			47	5936950.29	2171151.43



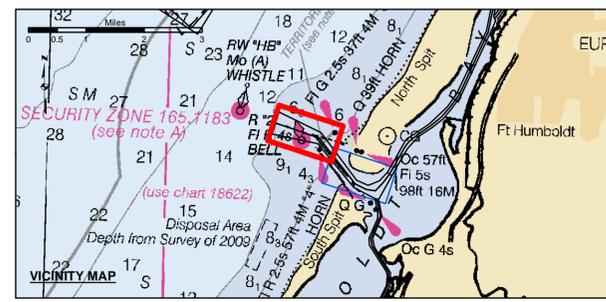
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PREPARED UNDER THE DIRECTION OF  
LT COLONEL C.E. DISTRICT ENGINEER

Surveyed By:	KEVIN P. ARNETT	Chart Date:	Feb 06, 2023
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

HUMBOLDT COUNTY  
HUMBOLDT BAY  
BAR & ENTRANCE CHANNEL  
CONDITION SURVEY  
31 JANUARY 2023

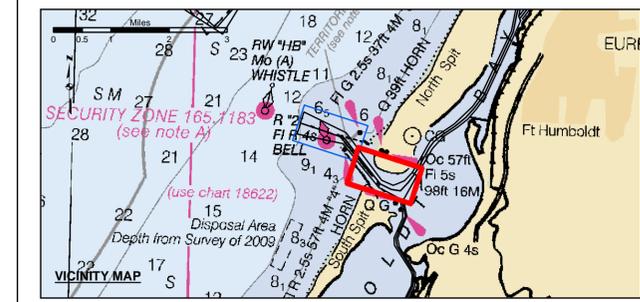
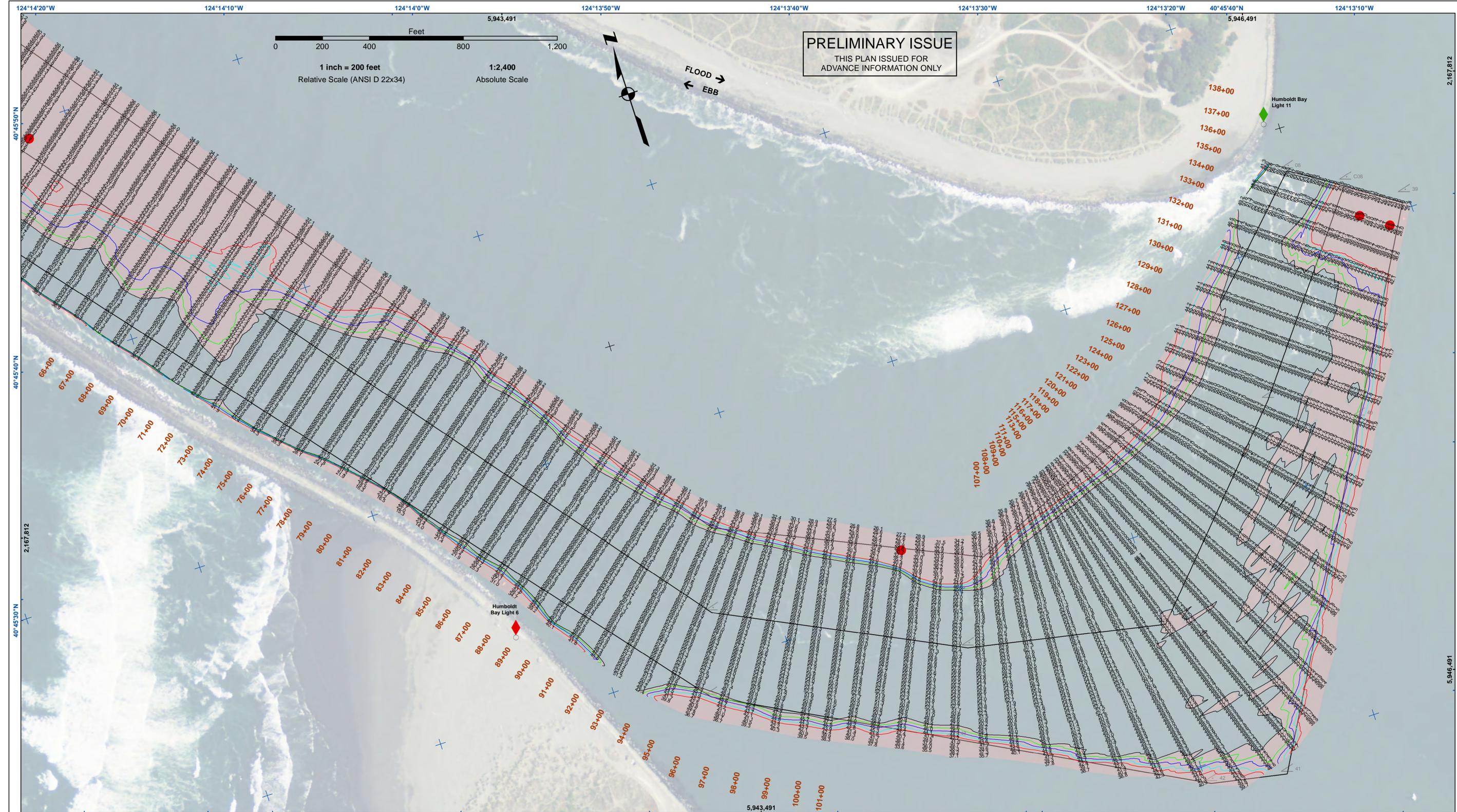
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Number  
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Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-48
Placement Area	Navigation Buoy	-47
Anchorage Area	Navigation Buoy	-46
Wreck Area	Shoalest Sounding*	-45
Submerged Wreck		-44
Zone_I_Angle_Points		

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 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 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 THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE 11 NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, U.S. DEPARTMENT OF COMMERCE.  
PROJECT DEPTHS ARE AS FOLLOWS:  
BAR & ENTRANCE CHANNEL = 48 FEET  
NORTH BAY, SAMOATO MILE 5.0 & = 38 FEET  
EUREKA CHANNEL, FIELDS LANDING CHANNEL & MILE 5.0 TO "N" STREET = 26 FEET

1:00 INDICATES THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.  
SOUNDINGS ARE BASED ON TIDE GAUGES REFERENCED TO U.S.C. & G.S.  
Vertical and Horizontal Control:  
NOAA Station: 941 8767 - North Spit, CA  
Benchmark:  
NO 11 1340 (PID: LV0359)  
MLW Elev: 4.251m  
Title:  
RTK GPS, using GEOID12a and VDATUM  
RTK elevations calibrated at 10.0ft nail at Coast Guard Station Humboldt Bay  
Position:  
RTK Positions



Federal Navigation Channel	Beacon, General	<b>Contours</b>
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 MLLW Elev: 4.251m

Tides:  
 RTK GPS, using GEOID12a and VDATUM  
 RTK elevations calibrated at 10.0ft nail at Coast Guard Station Humboldt Bay

Position:  
 RTK Positions

**US Army Corps of Engineers**  
 San Francisco District  
 450 Golden Gate Ave  
 San Francisco, CA 94102

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Prepared Under the Direction of <b>KEVIN P. ARNETT</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Feb 06, 2023
Submittal: Hydro Survey Team Leader	Designed by: PDT
Recommendation: Chief, Hydro Survey Section	Plotted by: PDT
Approval: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

**HUMBOLDT COUNTY CALIFORNIA**  
**HUMBOLDT BAY**  
**BAR & ENTRANCE CHANNEL**  
**CONDITION SURVEY**  
**31 JANUARY 2023**

**Sheet Number**  
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