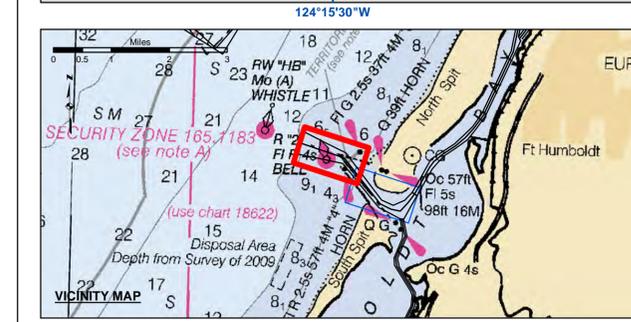


**HUMBOLDT BAY (BAR & ENTRANCE)**

X	Y	Z PT	X	Y	Z PT
5936596.69	2173163.63	24	5959081.79	2187678.43	
5938385.39	2172268.83	25	5958421.69	2187381.23	
5940404.09	2171258.93	26	5958007.99	2186903.83	
5943665.09	2169944.43	27	5956425.99	2185993.63	
5944727.49	2168468.93	28	5956165.59	2185492.63	
5945239.99	2166680.33	29	5955348.69	2184424.83	
5945752.39	2165111.73	30	5955006.99	2183383.43	
5946464.09	2163731.33	31	5954604.09	2182464.63	
5946953.59	2162479.53	32	5954200.39	2181543.53	
5947631.59	2161002.13	33	5953815.16	2180549.53	
5948193.09	2159779.33	34	5953426.69	2179724.13	
5948924.59	2158703.35	35	5949343.09	2179052.03	
5950308.09	2157859.13	36	5948674.79	2178232.13	
5951141.79	2157253.23	37	5948501.49	218794.33	
5951978.39	2156849.23	38	5947388.59	218524.23	
5952816.79	2156306.43	39	5946807.49	2187381.23	
5952989.89	2154706.43	40	5946431.39	2186537.23	
5953567.19	2153051.43	41	5945872.89	2185192.43	
5954236.79	2151319.43	42	5945354.09	2184254.63	
5954923.09	2149579.43	43	5944863.09	2183776.33	
5955612.59	2147843.43	44	5944411.39	2183261.63	
5956301.79	2146107.43	45	5943926.19	2182787.93	
5956991.79	2144371.43	46	5943483.09	2182343.43	
5957681.79	2142635.43	47	5943050.29	2181915.43	

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

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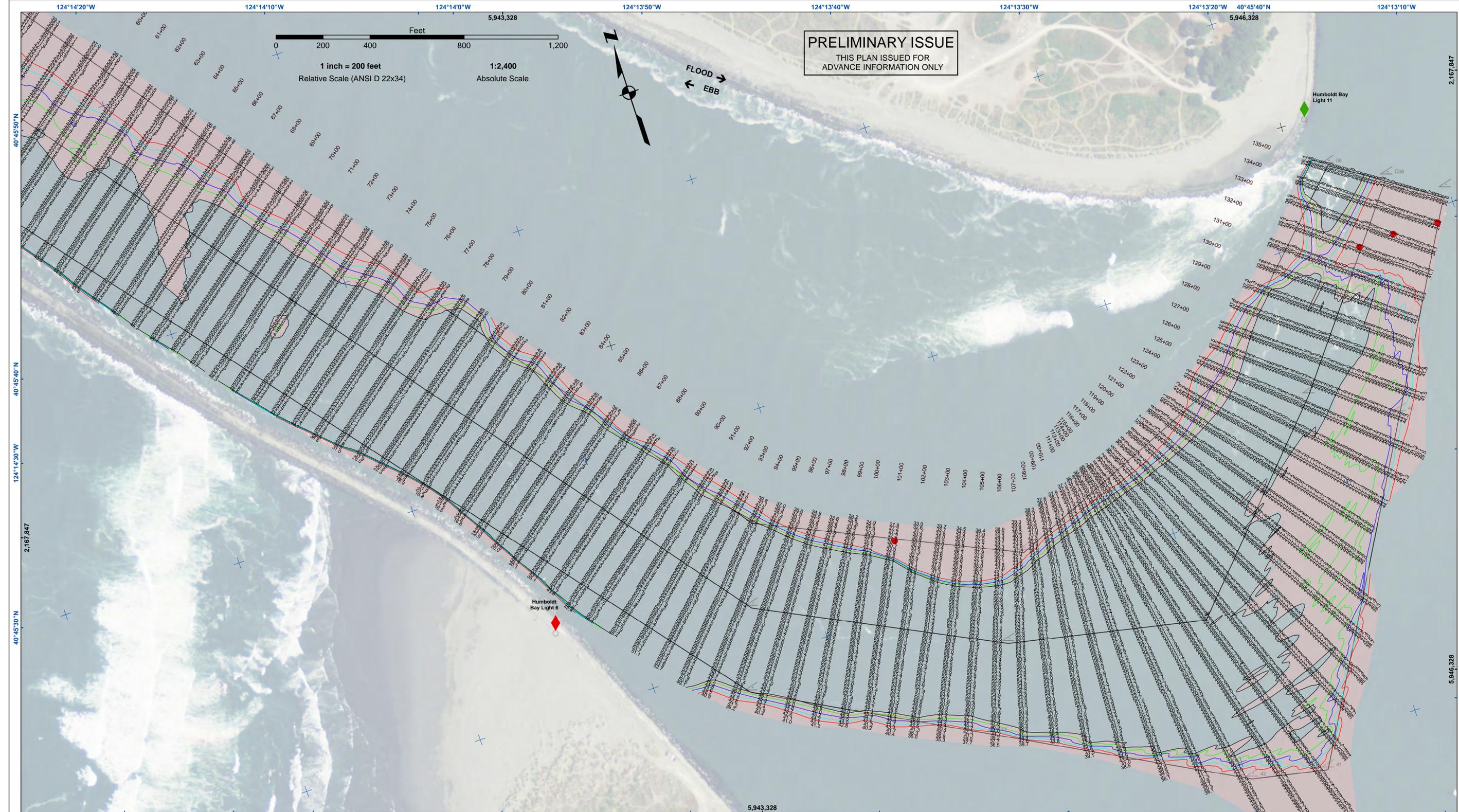
Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-48
Placement Area	Navigation Buoy	-47
Anchorage Area	Navigation Buoy	-46
Wreck Area	Shoalest Sounding*	-45
Submerged Wreck		-44
Zone_I_Angle_Points		

**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.  
SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH 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 1NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.  
PROJECT DEPTHS ARE AS FOLLOWS:  
BAR & ENTRANCE CHANNEL = 48 FEET  
NORTH BAY, SAMOA TO 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 1940 (PID: LV0359)  
MLW 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

CALIFORNIA  
HUMBOLDT COUNTY  
**HUMBOLDT BAY  
& ENTRANCE CHANNEL  
POST-DREDGE SURVEY**  
29 JUNE - 01 JULY 2023

**Sheet  
Number  
1 of 2**



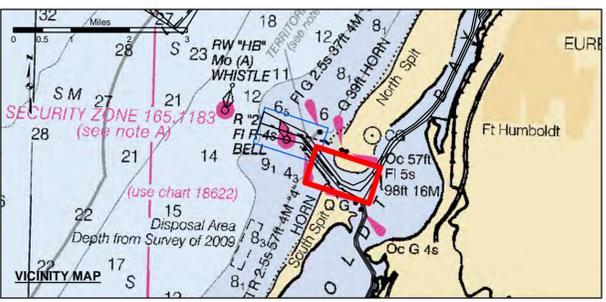
**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY

0 200 400 800 1,200  
Feet  
1 inch = 200 feet  
Relative Scale (ANSI D 22x34)  
1:2,400  
Absolute Scale

**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>TIMOTHY W. SHEBESTA</b> LT Colonel, C.E., District Engineer	Chart Date: Jul 10, 2023
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT



Federal Navigation Channel	Beacon, General	<b>Contours</b>
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Position:  
RTK Positions

CALIFORNIA  
HUMBOLDT COUNTY  
**HUMBOLDT BAY  
BAR & ENTRANCE CHANNEL  
POST-DREDGE SURVEY**  
29 JUNE - 01 JULY 2023

**Sheet  
Reference  
Number  
2 of 2**