

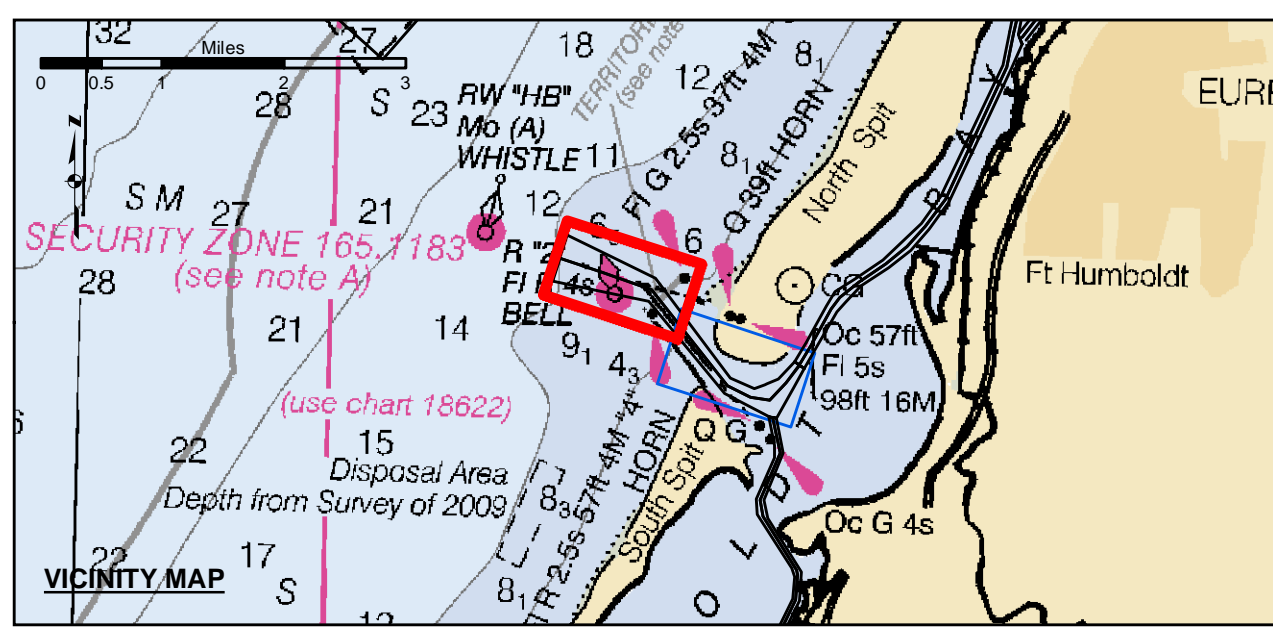
PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

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	5946886.39	2167508.33
C-9	5947166.09	2168359.43
C-10	5948049.39	2169917.43
C-11	5948433.89	2170455.43
C-12	5949233.79	2171119.43
C-13	5950417.39	2171891.43
C-14	5951329.29	2172556.23
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	2186379.43
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	2171259.93	26	5958007.99	2186903.83
4	5943666.09	2169944.43	27	5958425.99	2183993.63
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	5958566.89	2180383.43
8	5946464.09	2167311.33	31	5958163.09	2174904.63
9	5946853.59	2168479.53	32	5958200.39	2173413.53
10	5947831.59	2170042.13	33	5958151.79	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	2169234.23
16	5952816.79	2174808.43	39	5948007.49	2167381.23
17	5953584.79	2180520.43	40	5946431.39	2168537.23
18	5954047.79	2183225.33	41	5945672.89	2165182.43
19	5957638.19	2187055.43	42	5945354.09	2162524.63
20	5957883.59	2187647.53	43	5944363.09	2165776.33
21	5958881.79	2188787.43	44	5943441.39	2162611.63
22	5959581.79	2189078.43	45	5940125.19	2172027.83
23	5959681.79	2188378.43	46	5937908.79	2170746.43
			47	5935950.29	2171151.43



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 1 NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL SURVEY.

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

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

Position:
RTK Positions

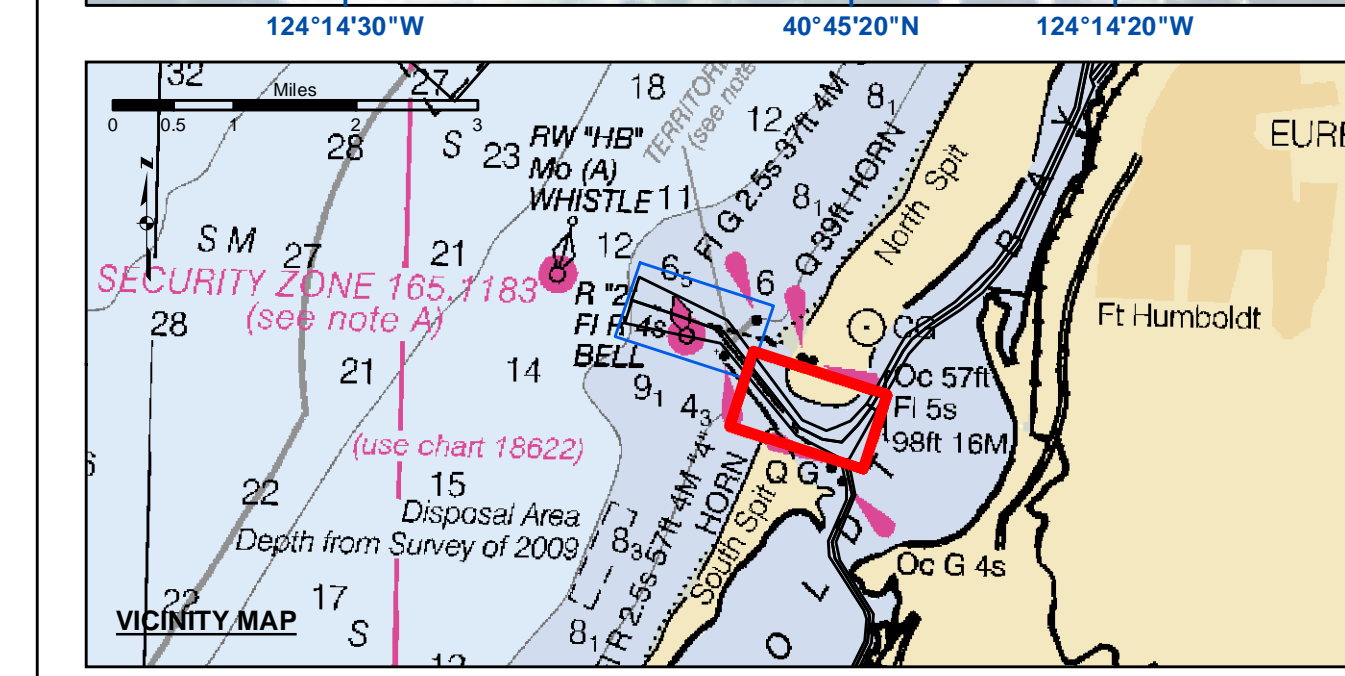
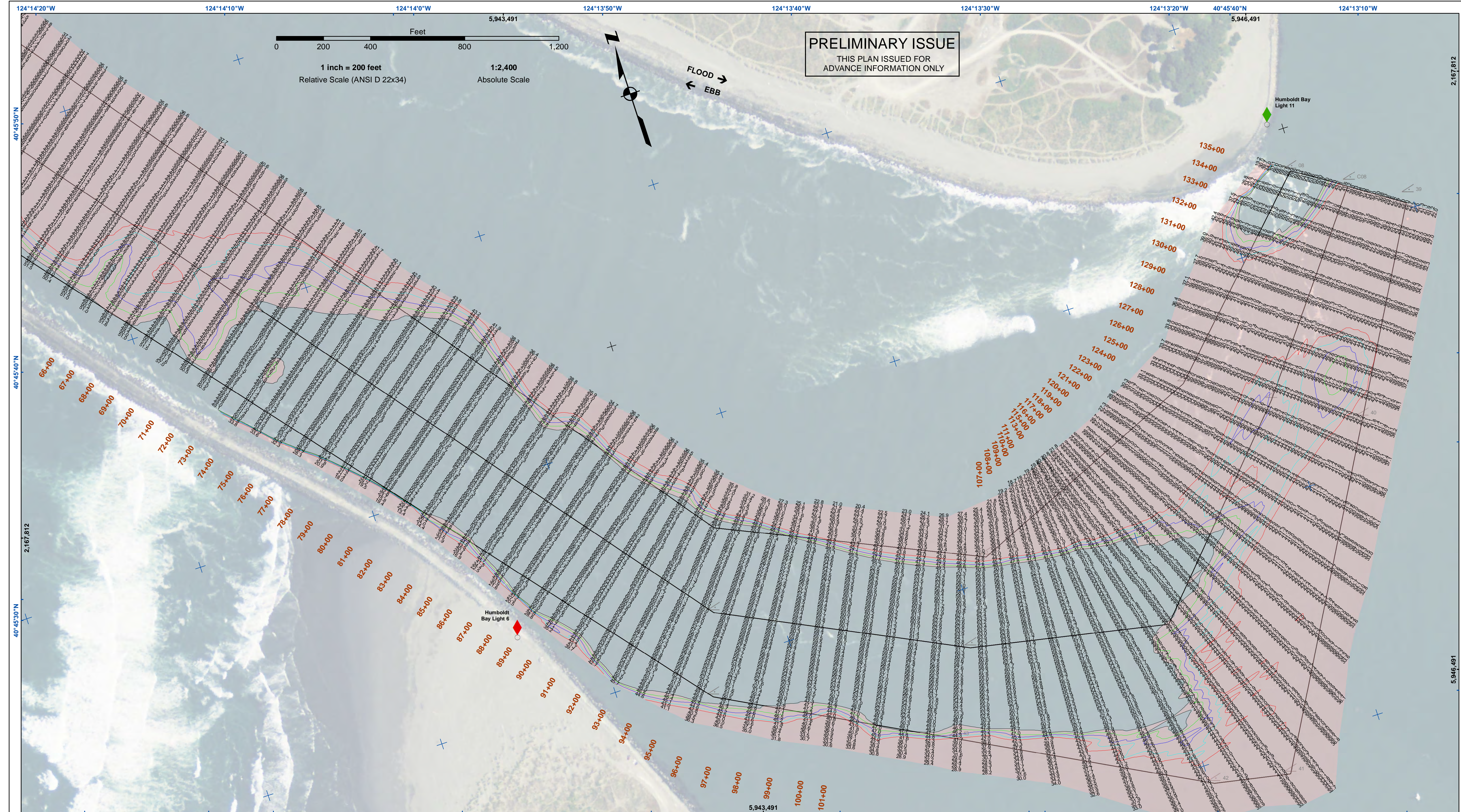


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Jun 26, 2020
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Designed by:
Approved: Chief, Construction Branch	Drawn by: PDT	

CALIFORNIA
HUMBOLDT COUNTY
**HUMBOLDT BAY
BAR & ENTRANCE CHANNEL
CONDITION SURVEY**
18 JUNE 2018

**Sheet
Number
1 of 2**



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-48
Placement Area	Navigation Buoy	-47
Anchorage Area	Navigation Buoy	-46
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Zone_I_Angle_Points		

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 Titles:
 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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Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA
HUMBOLDT BAY
BAR & ENTRANCE CHANNEL
 CONDITION SURVEY
 18 JUNE 2018

Sheet
Number
 2 of 2