

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	2172556.43
C-15	5952138.39	2173530.43
C-16	5952999.89	2174705.43
C-17	5953711.89	2180951.43
C-18	5956236.79	2183159.43
C-19	5957823.09	2186979.43
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	2183993.63
5	5944727.49	2166468.93	28	5958165.59	2181942.63
6	5945239.99	2166690.33	29	5956348.69	2181424.83
7	5945752.59	2166911.73	30	5955996.89	2180383.43
8	5946464.09	2167133.13	31	5955163.09	2174904.63
9	5946953.59	2168479.53	32	5952300.39	2173413.53
10	5947931.59	2170042.13	33	5951516.79	2172459.53
11	5949193.09	2170679.53	34	5950526.69	2171724.13
12	5949124.59	2171287.03	35	5949434.09	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	5947398.59	2169224.23
16	5952816.79	2174808.43	39	5946907.49	2167381.23
17	5955484.79	2180520.43	40	5946431.39	2166537.23
18	5956047.79	2183225.33	41	5945672.89	2165182.43
19	5956738.19	2187056.43	42	5945354.09	2162524.63
20	5957883.59	2187647.53	43	5944363.09	2165776.33
21	5958881.79	2188978.43	44	5943444.39	2162621.63
22	5959581.79	2189078.43	45	5943125.19	2172287.83
23	5959681.79	2188378.43	46	5937908.79	2170746.43
			47	5936950.29	2171151.43

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

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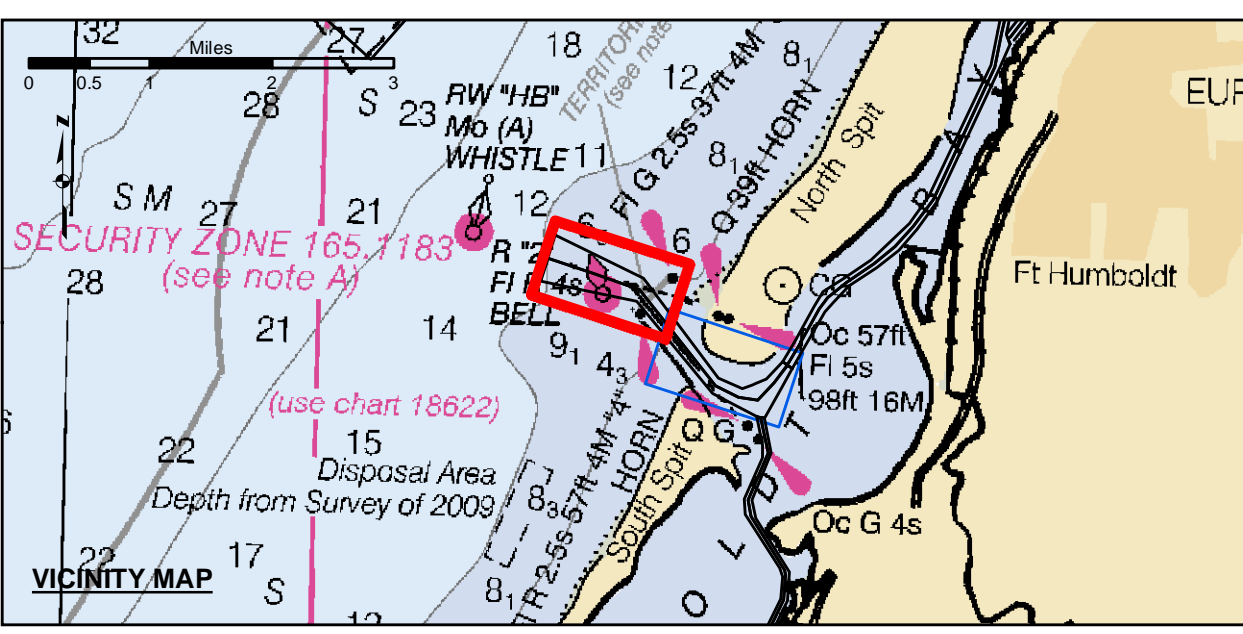
PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
LT COLONEL, C.E. DISTRICT ENGINEER

Surveyed By:	Plotted By:	Checked By:	Drawn by:
Hydro Survey Team Leader	PDT	PDT	PDT
Chief, Hydro Survey Section			
Approver:	Chief, Construction Branch		

Chart Date: Sep 28, 2020
Designed by: PDT
Drawn by: PDT

CALIFORNIA
**HUMBOLDT BAY
BAR & ENTRANCE CHANNEL
CONDITION SURVEY**
10 SEPTEMBER 2020

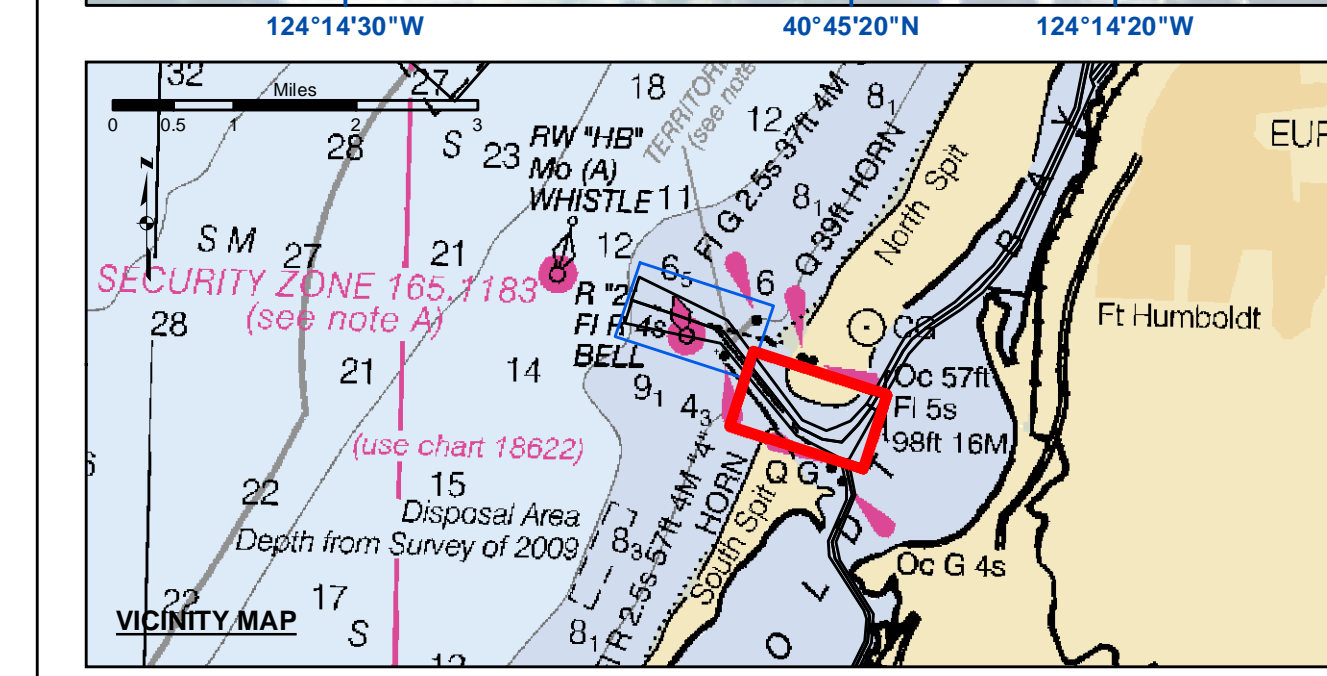
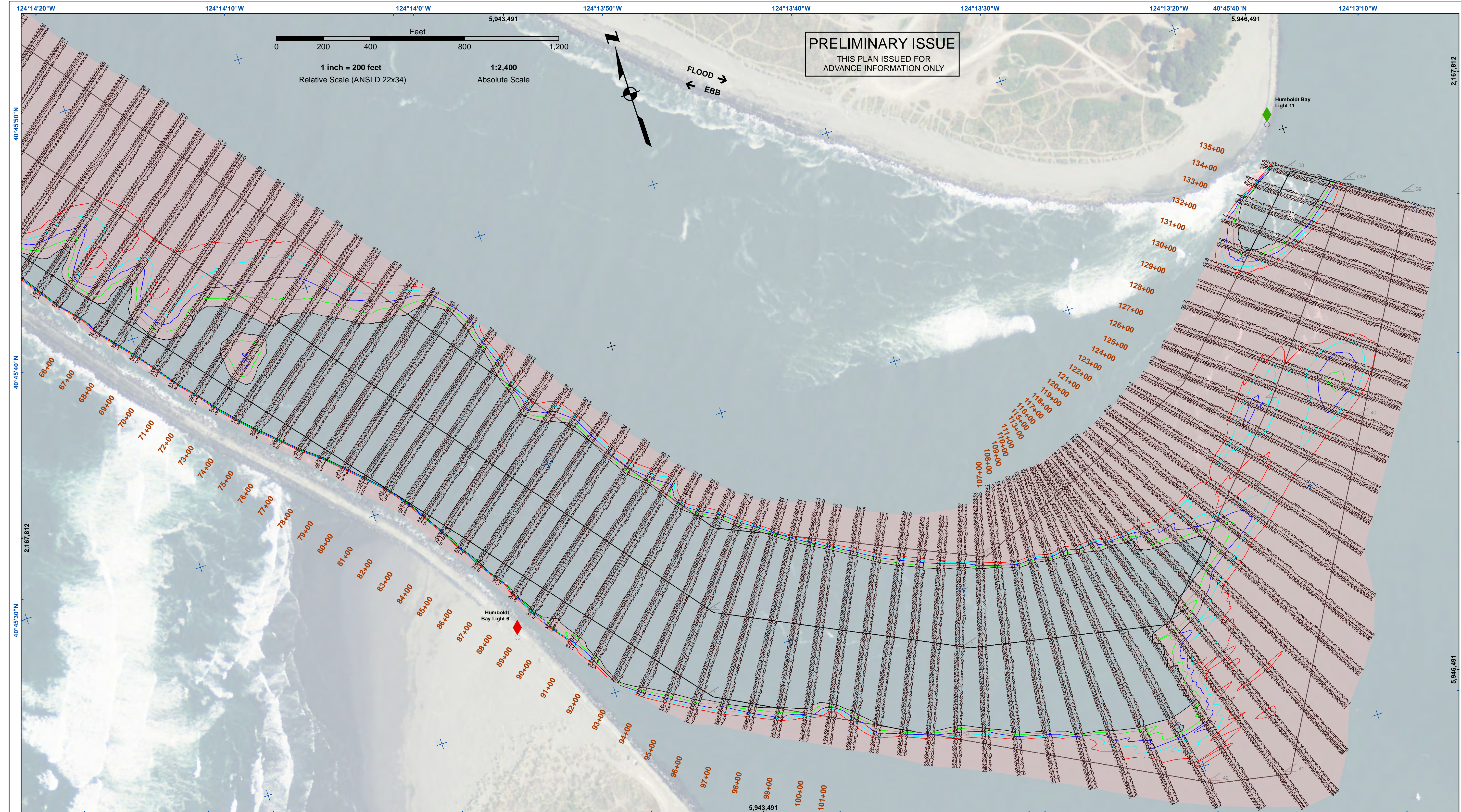
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Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-48
Placement Area	Navigation Buoy	-47
Anchorage Area	Navigation Buoy	-46
Wreck Area	Shoalest Sounding*	-45
Submerged Wreck		-44
Zone_I_Angle_Points		

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 OCEAN 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
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	Contours
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Position:
 RTK Positions

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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E. District Engineer	Chart Date: Sep 28, 2020
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA
 HUMBOLDT COUNTY
**HUMBOLDT BAY
 BAR & ENTRANCE CHANNEL
 CONDITION SURVEY**
 10 SEPTEMBER 2020

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