PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

N 40° 46' 30"

W 124° 15' 30"

W 124° 15' 00"

W 124° 14' 30"

N 40° 46' 00"

Humboldt Bay Entrance Light 3

Humboldt Bay Entrance Light 2

Humboldt Bay Lighted Bell Buoy

MATCHLINE - SHEET 2

GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

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 I 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, 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. BENCH MARKS AS FOLLOWS:
EUREKA & SAMOA CHANNELS - B.M. NO.4 (1906) ELEV. 33.61' M.L.L.W.
ENTRANCE & NORTH BAY CHANNELS - B.M. NO. 9 (1937) ELEV. 16.39' M.L.L.W.
FIELDS LANDING CHANNEL - B.M. NO. 5 (1925) ELEV. 8.52' M.L.L.W.

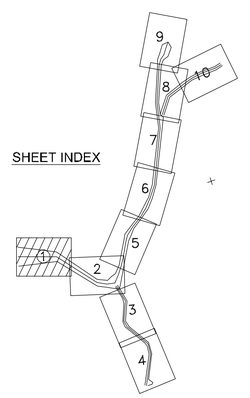
NAD 83
CENTERLINE ANGLE POINTS
HUMBOLDT BAY
(BAR & ENTRANCE)

| ∠ PT | X | Y |
|---|---|---|
| C1 | 5936273.49 | 2172157.43 |
| C2 | 5938147.59 | 2171508.43 |
| C3 | 5940265.09 | 2170773.43 |
| C4 | 5943553.39 | 2166602.43 |
| C5 | 5944545.29 | 2166122.43 |
| C6 | 5945376.99 | 2165957.23 |
| C7 | 5946085.69 | 2166728.23 |
| C8 | 5946686.99 | 2167508.93 |
| C9 | 5947166.09 | 2168359.43 |
| C10 | 5948049.99 | 2169917.43 |
| C11 | 5948433.89 | 2170455.43 |
| C12 | 5949233.79 | 2171119.43 |
| C13 | 5950417.39 | 2171891.43 |
| C14 | 5951329.29 | 2172656.43 |
| C15 | 5952138.39 | 2173530.43 |
| C16 | 5952989.89 | 2174706.43 |
| C17 | 5955671.89 | 2180451.43 |
| C18 | 5956236.79 | 2183159.43 |
| C19 | 5957823.09 | 2186979.43 |
| C20 | 5958152.59 | 2187513.43 |
| C21 | 5958681.79 | 2187878.43 |
| C22 | 5959281.79 | 2188678.43 |
| C23 | 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 | 2166944.43 | 27 | 5956425.99 | 2183093.63 |
| 5 | 5944727.49 | 2166468.93 | 28 | 5956165.59 | 2181842.63 |
| 6 | 5945239.99 | 2166690.33 | 29 | 5956348.69 | 2181424.83 |
| 7 | 5945752.39 | 2166911.73 | 30 | 5955886.99 | 2180393.43 |
| 8 | 5946464.09 | 2167631.33 | 31 | 5953163.09 | 2174604.63 |
| 9 | 5946953.59 | 2168479.53 | 32 | 5952300.39 | 2173413.53 |
| 10 | 5947831.59 | 2170042.13 | 33 | 5951516.79 | 2172459.53 |
| 11 | 5948193.09 | 2170679.33 | 34 | 5950526.69 | 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 | 2173648.23 | 38 | 5947388.59 | 2168234.23 |
| 16 | 5952816.79 | 2174808.43 | 39 | 5946907.49 | 2167381.23 |
| 17 | 5955484.79 | 2180520.43 | 40 | 5946431.39 | 2166537.23 |
| 18 | 5956047.79 | 2183225.93 | 41 | 5945672.89 | 2165192.43 |
| 19 | 5957638.19 | 2187056.43 | 42 | 5945354.09 | 2165254.63 |
| 20 | 5957883.59 | 2187647.53 | 43 | 5944363.09 | 2165776.33 |
| 21 | 5958881.79 | 2188978.43 | 44 | 5943441.39 | 2166261.63 |
| 22 | 5959581.79 | 2189078.43 | 45 | 5940126.19 | 2170287.93 |
| 23 | 5959681.79 | 2188378.43 | 46 | 5937908.79 | 2170746.43 |
| | | | 47 | 5935950.29 | 2171151.43 |

SHEET INDEX




LEGEND:
-48'
-47'
-46'
-45'
-44'

US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

| Mark | Description | Date | Appr. |
|---|---|---|---|
| | | | |

DESIGNED BY: | CHECKED BY: PDT | DRAWN BY: PDT
DATE: 3/7/2013 | SHEET NO. 1 OF 10 | DRAWING NO. X | X | 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

HUMBOLDT COUNTY CALIFORNIA

HUMBOLDT BAY
BAR & ENTRANCE
CONDITION SURVEY
23-28 FEBRUARY 2013

Sheet reference number
C1