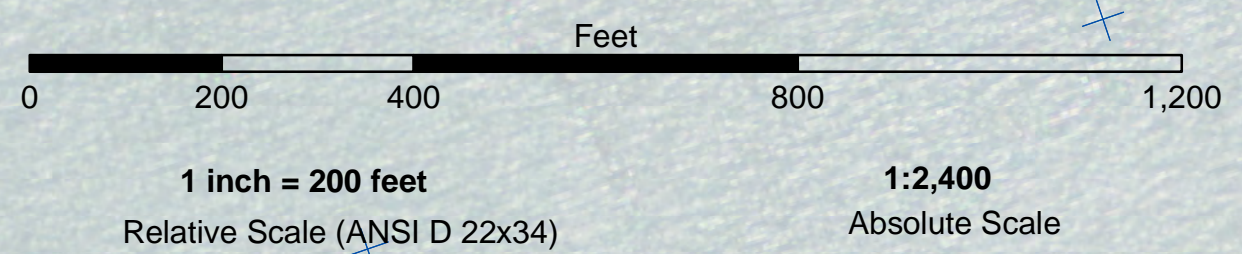


NAD 83 CENTERLINE ANGLE POINTS		
PT	X	Y
C1	6021958.65	2103914.82
C2	6020630.00	2101066.50
C3	6020354.08	2100223.06
C4	6021030.11	2098794.95
C5	6022016.50	2097553.00
C6	6023710.78	2096749.92

NAD 83 CHANNEL ANGLE POINTS		
PT	X	Y
01	6021730.30	2104021.63
02	6020315.00	2100996.00
03	6019609.66	2100404.62
04	6021657.00	2097397.00
05	6023590.57	2096492.83
06	6023831.00	2097007.00
07	6022376.00	2097709.00
08	6021252.00	2098946.00
09	6020945.00	2101137.00
10	6022187.00	2103808.00

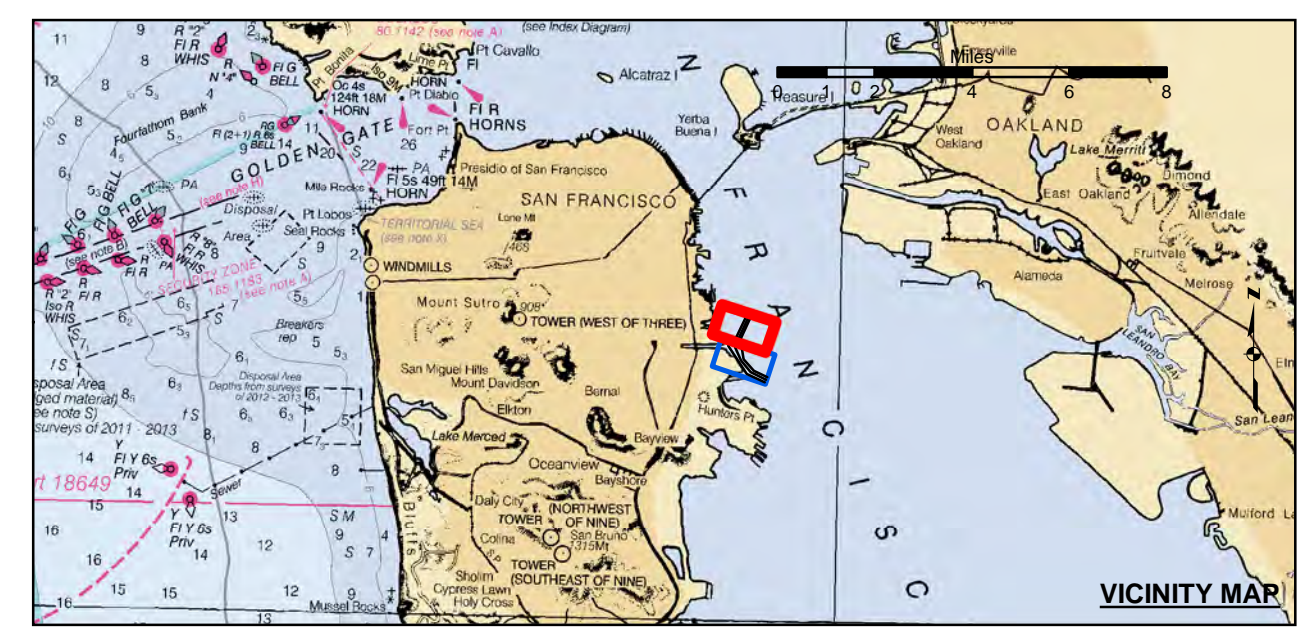


US Army Corps of Engineers
 San Francisco District
 450 Market Street
 San Francisco, CA 94102

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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER	Chart Date: Jul 22, 2019
Subject: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Plotted by: PDT
Approved by: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

SAN FRANCISCO BAY
 CALIFORNIA
ISLAIS CREEK
 CONDITION SURVEY
 12 JULY 2019

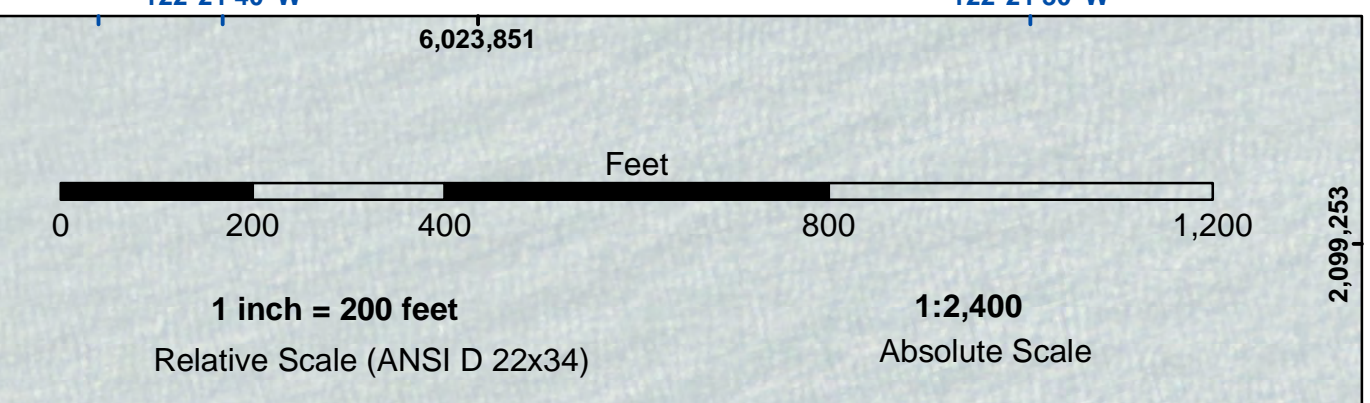
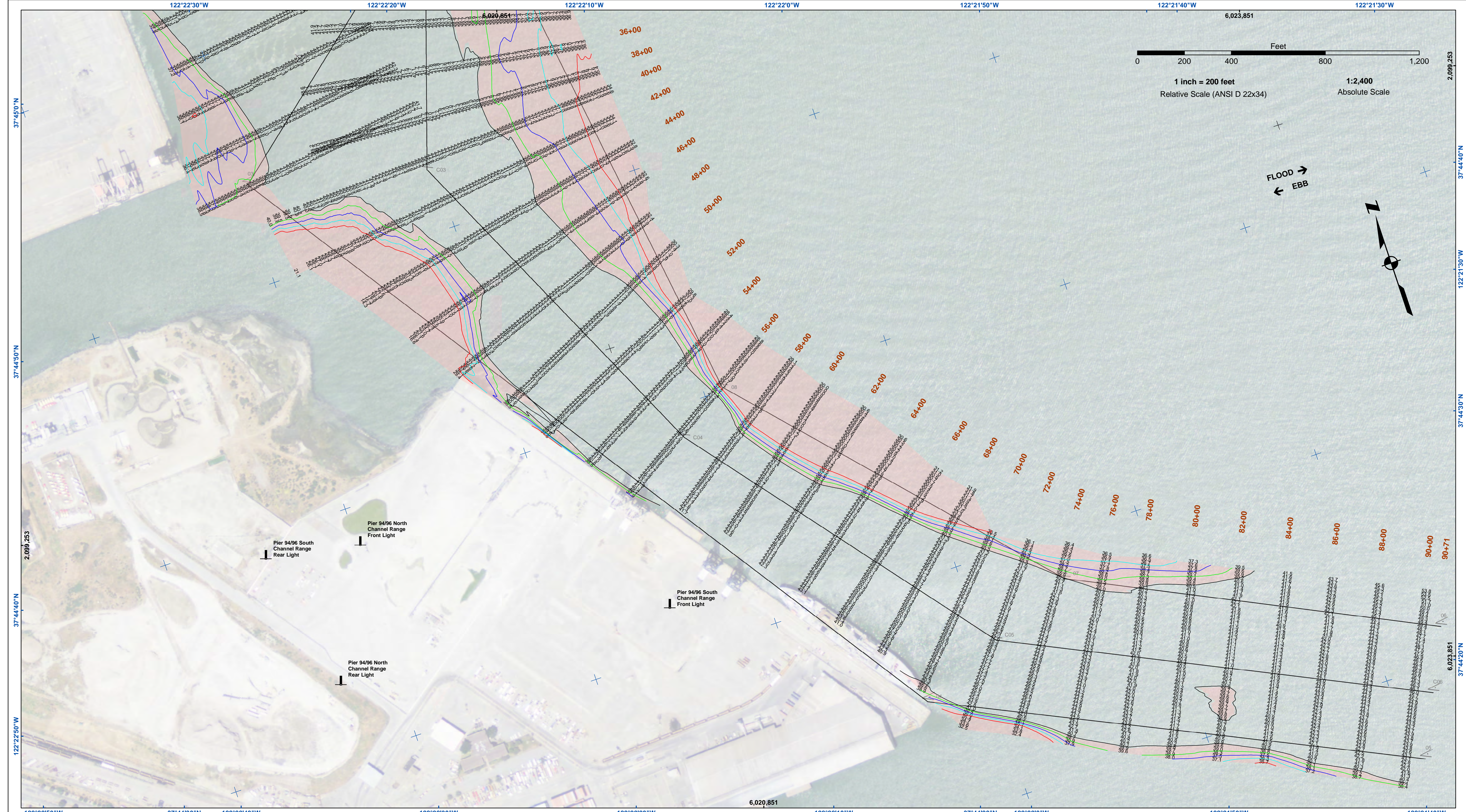


Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-40
Placement Area	Navigation Buoy	-39
Anchorage Area	Navigation Buoy	-38
Wreck Area	Shoalest Sounding*	-37
Submerged Wreck		-36
Angle Point		

NOTES:
 HORIZONTAL COORDINATE SYSTEM:
 THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.
 VERTICAL DATUM:
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.
 PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.
 *SHOALEST SOUNDING PER QUARTER PER REACH

DRAWING NOT TO BE USED FOR 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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
 SURVEYED BY THE CORPS OF ENGINEERS.
 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. BASE MAPS ARE USDA NAIP 2010.
 THE PROJECT DEPTH IS 40 FEET AT M.L.L.W. SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.
 VERTICAL CONTROL:
 BM 4 1941
 PID: HT0616
 MLLW = 4.796M (15.735 FT)
 NOAA STATION 941 4368
 TIDE GAUGE LOCATION: ISLAIS CREEK, PIER 80
 HORIZONTAL CONTROL:
 COAST GUARD DGPS BEACON

Sheet Reference Number
 1 of 2



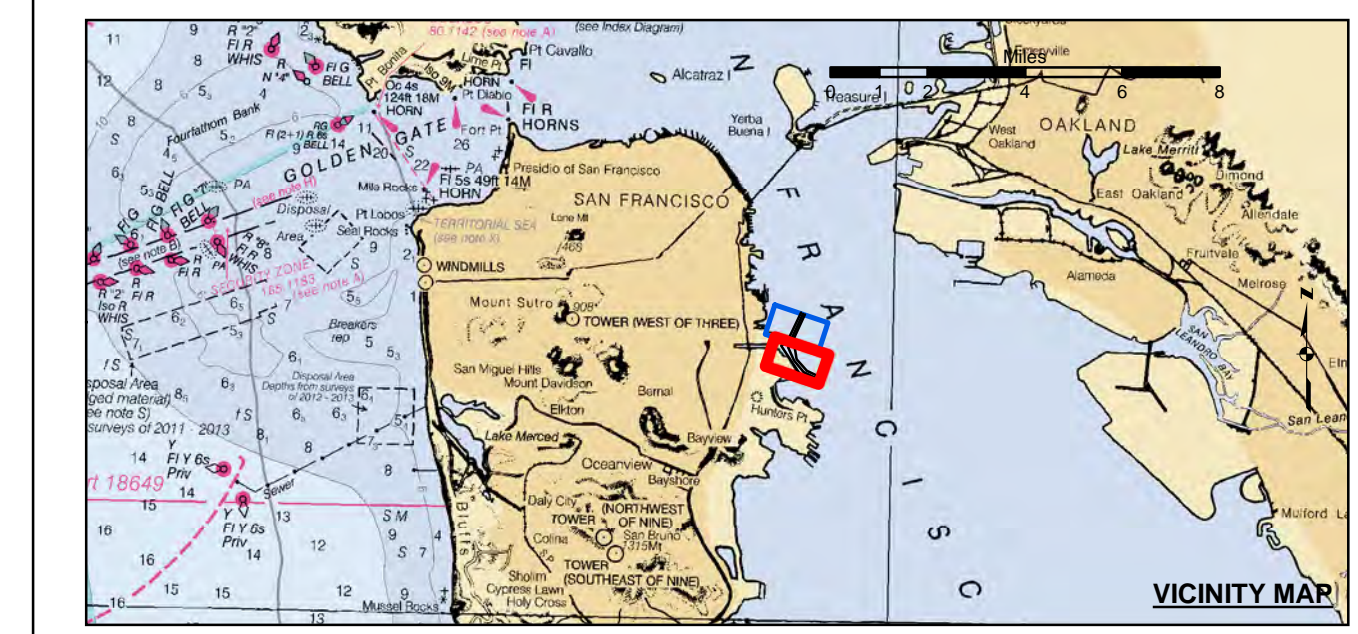
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Chart Date:	Jul 22, 2019
Designed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT
Surveyed By:	JOHN D. CUNNINGHAM
Submitted:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
ISLAIS CREEK
 CONDITION SURVEY
 12 JULY 2019

Sheet Reference Number
 2 of 2



- | | | |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | |
| Placement Area | Navigation Buoy | |
| Anchorage Area | Navigation Buoy | |
| Wreck Area | Shoalest Sounding* | |
| Submerged Wreck | | -40 |
| Angle Point | | -39 |
| | | -38 |
| | | -37 |
| | | -36 |

NOTES:
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 MLLW = 4.796M (15.735 FT)
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 HORIZONTAL CONTROL:
 COAST GUARD DGPS BEACON