

























U.S. ARMY CORPS OF ENGINEERS 38°11'10"N 38°11'0"N 38°10'50"N 1,830,001 US Army Corps of Engineers 523+00 San Francisco District 450 Golden Gate Avenu San Francisco, CA 94102 522+00 521+00 519+00 518+00 517+00 Napa River Light 9 515+00 514+00 PRELIMINARY ISSUE THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY ← FLOOD 200 100 1:1,200 1 inch = 100 feet Absolute Scale Relative Scale (ANSI D 22x34) 1,830,001 38°11'10"N 38°11'0"N 38°10'50"N DRAWING NOT TO BE USED FOR NAVIGATION, ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON Federal Navigation Channel z-0-NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET. INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. SURVEYED BY THE CORPS OF ENGINEERS. Contours SOUNDINGS FOR THE OUTSIDE CHANNEL (100FT. WIDE) TAKEN BY FATHOMETER; THE INSIDE CHANNEL (60 FT. WIDE) Shoaling Area Beacon, General TAKEN BY LEADLINE, AND ARE SHOWN TO THE NEAREST FOOT AND TENTHS OF A FOOT. SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. Placement Area 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 THE PROJECT DEPTH IS 15 FROM ENTRANCE AT THE MARE ISLAND CAUSEWAY TO ASYLUM SLOUGH, **Obstruction Point** THENCE 10 FEET TO HEAD OF NAVIGATION. GENERAL CONDITION EXISTING AT THAT TIME. Anchorage Area VERTICAL CONTROLS:

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE 0+00 TO 175+00 - NRFP4 - 30.54ft - USACE - RTK BASE STATION TRANSECT 11 - 6.593m MLLW - USACE -Navigation Buoy MLLW LEVELED FROM 20 AND TIDAL 5 FROM TIDE STATION 941 5623 ON 3/29/2012. LAMBERT CONFORMAL PROJECTION, ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN Wreck Area Sheet SURVEY. BASE MAPS ARE USDA NAIP 2010. CALCULATED FROM TRANSECT 11 AND NRFP4 USING RTK OBSERVATIONS PID PENDING. Reference Navigation Buoy Submerged Wreck \*SHOALEST SOUNDING PER QUARTER PER REACH 225+00 TO 640+00 - NAPAR02 - 3.653m MLLW -28.241m WGS-84 - USACE - RTK BASE STATION WGS-84 ELEVATION FROM OPUS SOLUTION MLLW ELEV. CALCULATED BY INTERPOLATING ELEVATIONS BETWEEN NOAA TIDE STATIONS 941 5623 AND 941 5218 PID PENDING. Number GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster Angle Point Shoalest Sounding\* 18 of 25 NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS USE (NITY) WIAP 641+00 TO 692+00 - NAPAR03 - 3.553m MLLW -28.416m WGS-84 - USACE - RTK BASE STATION WGS-84 ELEVATION FROM

	ב	Approved. Chief, Construction Branch
	PDT	Approved:
Drawn by	Checked By:	Chief, Hydro Survey Section
		Recommended:
	PDT	Hydro Survey Team Leader
Designed	Plotted By:	Submitted:
		LT. COLONEL, C.E., DISTRICT ENGINEER
7		TIMOTHY W. SHEBESTA
Chart Dat	Surveyed By:	PREPARED UNDER THE DIRECTION OF

OPUS SOLUTION MLLW ELEV. TRANSFERRED FROM BM 5218 J 1976 VIA RTK ON 4/10/2012 PID PENDING.













