

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

CHANNEL ANGLE POINTS - NAD 83			
CHANNEL	∠	EAST	NORTH
A		5942376.6491	2108540.1149
B		5943012.7491	2106643.9149
C		5967229.2491	2116876.3149
D		5967865.3491	2114980.1149

CENTERLINE ANGLE POINTS - NAD 83			
CENTERLINE	∠	EAST	NORTH
C1		5942694.6491	2107592.0149
C2		5967547.2491	2115928.2149

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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS, 27-28 JANUARY 2009.

SOUNDINGS ARE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND TENTHS OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

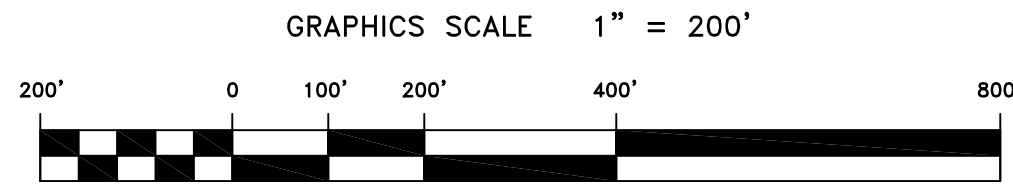
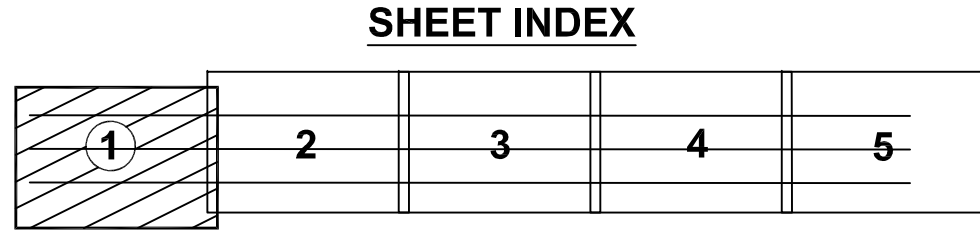
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III NAD83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 55 FEET AT M.L.L.W.

SOUNDINGS ARE BASED TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.

VERTICAL CONTROL
BENCHMARK "G-481" USC&GS DISK ELEV. 19.54 FT. M.L.L.W.

HORIZONTAL CONTROL:
DESIGNATION, SOURCE, XYZ: RTK GPS VIA VRS NETWORK.



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

Mark	Description	Date	Appr.

SUBMITTED: MC Hydro Survey Team Leader	DESIGNED BY: TYW	CHECKED BY: TYW	DRAWN BY: EWC
APPROVAL RECOMMENDED: 2/02/2009 CHM, Technical Support Section	DATE: 2/02/2009	SHEET NO.: 1 OF 5	DRAWING NO.: 715
APPROVED: LT. COLONEL, C.E., DISTRICT ENGINEER	PREPARED UNDER THE DIRECTION OF: LAURENCE M. FARRELL		

SAN FRANCISCO BAR
CALIFORNIA
SAN FRANCISCO MAINSHIP CHANNEL
CONDITION SURVEY
27-28 JANUARY 2009

Sheet reference number
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