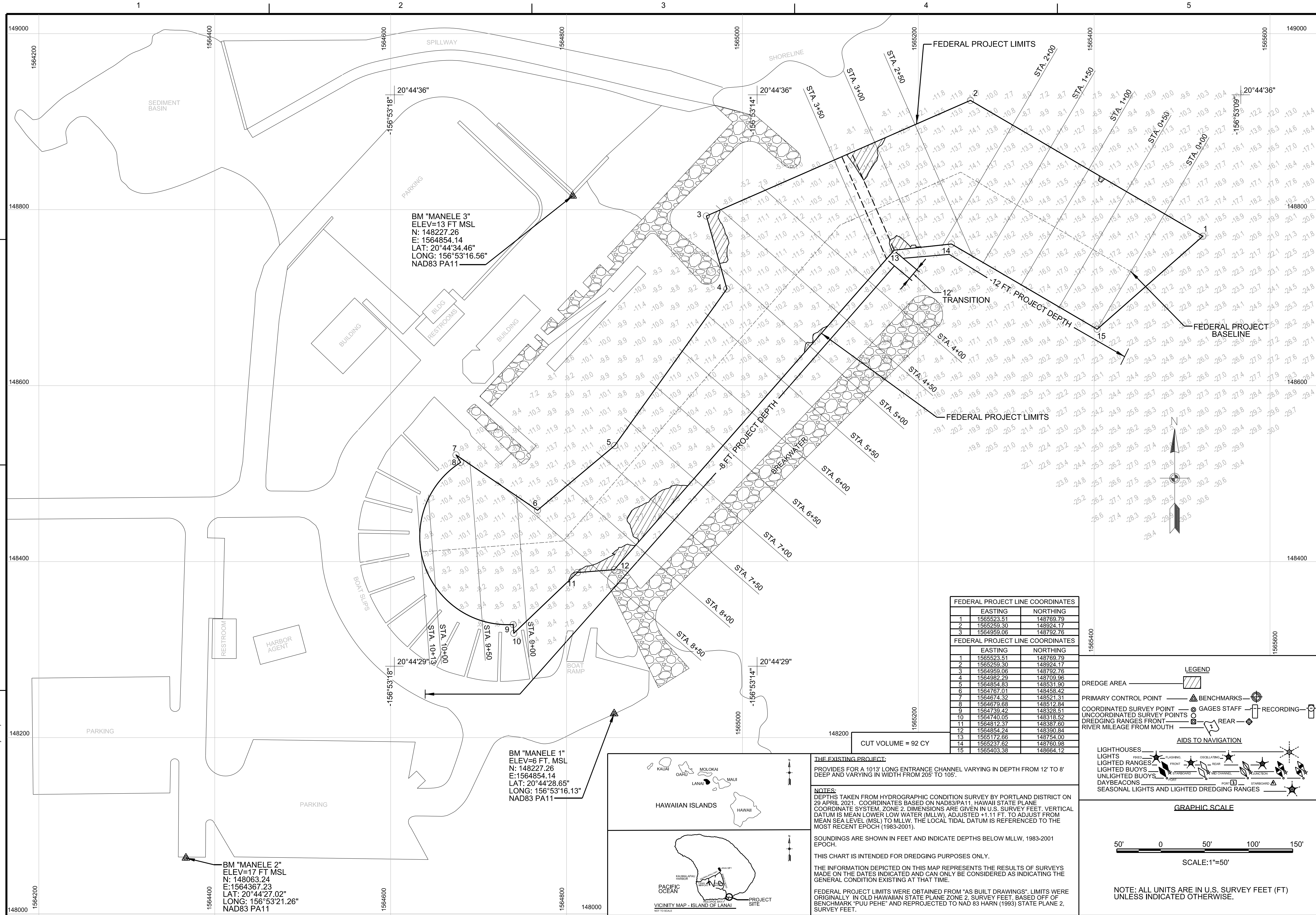


FILE: E:\Projects\Hydro\surveys\FOH_APRIL_2021\Manele_SBH\Manele_VH101.dgn
 PLOT DRIVER: C:\ProgramData\Bentley\MicroStation V8i (BELECT\series)\WorkSpace\System\pltrg\pdf.pltrg
 PEN TABLE: BW_and_GrayScale_Pen.tbl
 PRINTED BY: Bsc309
 DATE & TIME: 8/25/2021 9:20:57 AM
 LAST SAVED BY:



BM "MANELE 3"
 ELEV=13 FT MSL
 N: 148227.26
 E: 1564854.14
 LAT: 20°44'34.46"
 LONG: 156°53'16.56"
 NAD83 PA11

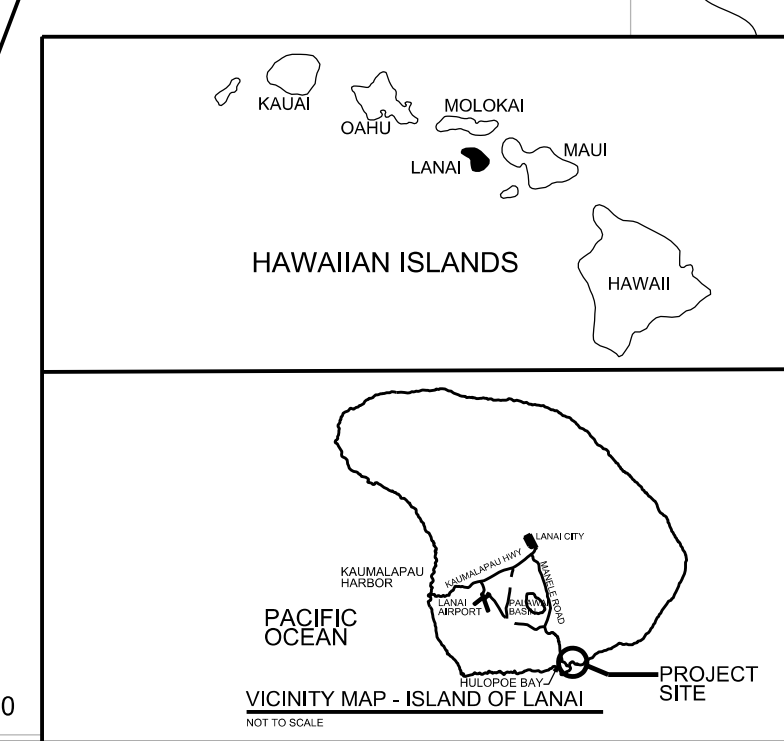
BM "MANELE 1"
 ELEV=6 FT. MSL
 N: 148227.26
 E: 1564854.14
 LAT: 20°44'28.65"
 LONG: 156°53'16.13"
 NAD83 PA11

BM "MANELE 2"
 ELEV=17 FT MSL
 N: 148063.24
 E: 1564367.23
 LAT: 20°44'27.02"
 LONG: 156°53'21.26"
 NAD83 PA11

FEDERAL PROJECT LINE COORDINATES		
	EASTING	NORTHING
1	1565253.51	148769.76
2	1565253.30	148924.17
3	1564959.06	148792.76
4	1564982.29	148709.96
5	1564854.83	148531.90
6	1564767.01	148458.42
7	1564674.32	148521.31
8	1564679.88	148512.84
9	1564739.42	148328.51
10	1564740.05	148318.52
11	1564812.37	148387.60
12	1564854.24	148390.84
13	1565172.66	148754.00
14	1565237.62	148760.98
15	1565403.38	148664.12

FEDERAL PROJECT LINE COORDINATES		
	EASTING	NORTHING
1	1565253.51	148769.79
2	1565253.30	148924.17
3	1564959.06	148792.76
4	1564982.29	148709.96
5	1564854.83	148531.90
6	1564767.01	148458.42
7	1564674.32	148521.31
8	1564679.88	148512.84
9	1564739.42	148328.51
10	1564740.05	148318.52
11	1564812.37	148387.60
12	1564854.24	148390.84
13	1565172.66	148754.00
14	1565237.62	148760.98
15	1565403.38	148664.12

CUT VOLUME = 92 CY



THE EXISTING PROJECT:
 PROVIDES FOR A 1013' LONG ENTRANCE CHANNEL VARYING IN DEPTH FROM 12' TO 8' DEEP AND VARYING IN WIDTH FROM 205' TO 105'.

NOTES:
 DEPTHS TAKEN FROM HYDROGRAPHIC CONDITION SURVEY BY PORTLAND DISTRICT ON 29 APRIL 2021. COORDINATES BASED ON NAD83/PA11, HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 2. DIMENSIONS ARE GIVEN IN U.S. SURVEY FEET. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW), ADJUSTED +1.11 FT. TO ADJUST FROM MEAN SEA LEVEL (MSL) TO MLLW. THE LOCAL TIDAL DATUM IS REFERENCED TO THE MOST RECENT EPOCH (1983-2001).

SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MLLW, 1983-2001 EPOCH.

THIS CHART IS INTENDED FOR DREDGING PURPOSES ONLY.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.

FEDERAL PROJECT LIMITS WERE OBTAINED FROM "AS BUILT DRAWINGS". LIMITS WERE ORIGINALLY IN OLD HAWAIIAN STATE PLANE ZONE 2, SURVEY FEET, BASED OFF OF BENCHMARK "PUU PEHE" AND REPROJECTED TO NAD 83 HARN (1993) STATE PLANE 2, SURVEY FEET.

LEGEND

DREDGE AREA [Symbol]

PRIMARY CONTROL POINT [Symbol] BENCHMARKS [Symbol]

COORDINATED SURVEY POINT [Symbol] GAGES STAFF [Symbol] RECORDING [Symbol]

UNCOORDINATED SURVEY POINTS [Symbol]

DREDGING RANGES FRONT [Symbol] REAR [Symbol]

RIVER MILEAGE FROM MOUTH [Symbol]

AIDS TO NAVIGATION

LIGHTHOUSES [Symbol]

LIGHTS [Symbol]

LIGHTED RANGES [Symbol]

LIGHTED BUOYS [Symbol]

UNLIGHTED BUOYS [Symbol]

DAYBEACONS [Symbol]

SEASONAL LIGHTS AND LIGHTED DREDGING RANGES [Symbol]

GRAPHIC SCALE

50' 0 50' 100' 150'

SCALE: 1"=50'

NOTE: ALL UNITS ARE IN U.S. SURVEY FEET (FT) UNLESS INDICATED OTHERWISE.

US Army Corps of Engineers

ISSUE DATE:	SOLICIT / CONTRACT NO.:
DESIGNED BY:	LOCATION NO.:
DRAWN BY:	FILE NUMBER:
CHECKED BY:	DATE:
SUBMITTED BY:	SIZE:
FILE NAME:	ANSI D

U.S. ARMY CORPS OF ENGINEERS
 HONOLULU DISTRICT
 FORT SHAFTER, HI

CIVIL WORKS TECHNICAL BRANCH

MANELE SMALL BOAT HARBOR
 CONDITION SURVEY
 LANAI, HAWAII

SIGHT PLAN, SURVEY
 NOTES & SOUNDINGS
 26 JANUARY 2016

SHEET IDENTIFICATION
 VH101
 SHEET 1 OF 1