1 2 3 4 5 6

E 1,786,000 | 155°04'40" | E 1,789,000 | 155°04'20" | 155°04'00" | E 1,792,000 | 155°03'40" | E 1,795,000 | 155°03'20"

19°14' 20" | 19°44' 40"

N 330,000 | N 327,000 | N 324,000 | 19°44'00" | 19°43' 40"

BREAKWATER

END
N 330492.914
E 1786560.078

OCEAN
N 330803.552
E 1789515.352

BLONDE
N 330516.633
E 1790654.729

BREAKWATER
N 329734.048
E 1791625.845

ROCK
N 327393.422
E 1793736.877

PACIFIC OCEAN

HARBOR ENTRANCE

HARBOR BASIN

BREAKWATER

1 2 3 4 5

BM MOKUOLA 2 1951
N 325972.432
E 1788884.908

N 325901.414
E 1790124.483

SHORE LINE

KUHIO BAY

BM 5.79 USGS
N 324366.537
E 1787996.089

PRATT
N 324930.962
E 1791977.447

BM 161 7760A
N 325004.527
E 1793748.180

RADIO BAY

SMALL BOAT MOORING

COAST GUARD BOAT HOUSE

PIER 1 SHED

SHED

PIER 2

HARBOR MASTER OFFICE

CONTAINER & AUTOMOBILE STORAGE

LPG STORAGE & DIST.

PIER 3
N 326004.289
E 1792937.538

155°03'20"

155°03' 00"

155°03'40"

E 1,786,000 | E 1,789,000 | E 1,792,000 | E 1,795,000

155°04'40" | 155°04' 20" | 155°04' 00"

N 324,000

A B C D E

TRIANGULATION SYSTEM

E 1786560.078
N 330492.914
END

E 1789515.352
N 330803.552
OCEAN

E 1790654.729
N 330516.633
BLONDE

BREAKWATER
E 1791625.845
N 329734.048

ROCK
E 1793736.877
N 327393.422

E 1788792.182
N 325952.598
MOKUOLA 2

KENNEDY
E 1790124.483
N 325901.414

PIER 3
E 1792937.538
N 326004.289

PRATT
E 1791977.447
N 324930.962

264°00'04" 2971.56'
284°08'00" 1174.95'
309°51'56" 1247.19'
155°49'20" 5059.30'
188°28'52" 4904.56'
202°17'07" 4629.46'
216°50'54" 4175.38'
317°57'15" 3151.97'
355°07' 365.01'
29°55'09" 1602.70'
89°17'14" 4145.68'
87°54'26" 2814.94'
117°38'38" 2091.70'
41°48'52" 1440.08'

N

TRIANGULATION SYSTEM
1000 0 1000 2000 3000

GRAPHIC SCALE
300' 0 300' 600' 900'

SCALE:1"=300'

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

FEDERAL PROJECT LINE COORDINATES

	EASTING	NORTHING
1	1,790,685.31	327,408.62
2	1,793,085.29	327,414.53
3	1,793,088.76	326,014.52
4	1,790,788.76	326,008.87
5	1,789,074.39	327,055.38

PROJECTION: HAWAII STATE PLANE ZONE 1 (FEET)
HORIZONTAL DATUM: NAD83 HARN (1993)
VERTICAL DATUM: LOCAL TIDAL DATUM - MLLW
TIDAL EPOCH: 1983-2001

BM NAME	NORTHING	EASTING	MLLW (FT)
161 7760 A	325,004.527	1,793,748.180	19.35
5.79 USGS	324,366.537	1,787,996.089	6.79
A 100	323,112.88	1,790,507.32	12.56
MOKUOLA 2 1951	325,972.432	1,788,884.908	4.15

THE EXISTING PROJECT

PROVIDES FOR AN ENTRANCE CHANNEL 500 FEET WIDE, 35 FEET DEEP AND APPROXIMATELY 1,400 FEET LONG. THENCE A TURNING BASIN 1,400 FEET WIDE, 35 FEET DEEP AND APPROXIMATELY 2,300 FEET LONG.

CONDITION SURVEY NOTES

APPROXIMATE BANKLINE DIGITIZED FROM AERIAL PHOTOGRAPHY TAKEN 16 JUNE 2000 AND 28 MAY 2003. DEPTHS OBTAINED THRU HYDROGRAPHIC SURVEY BY PORTLAND DISTRICT 07 APRIL 2013. CONTROL IS BY U.S. NAVY & NGS. COORDINATES ARE BASED ON NAD 83 HARN (1993), HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 1. LONGITUDE/LATITUDE REFERENCED TO NAD 83 HARN (1993). DIMENSIONS ARE GIVEN IN U.S. SURVEY FEET.

DATUM IS MEAN LOWER LOW WATER (MLLW). THE LOCAL TIDAL DATUM IS REFERENCED TO THE MOST RECENT EPOCH (1983-2001). NWLON STATION NO. 1617760.

SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MLLW.
ELEVATIONS ARE SHOWN THUS: +2, INDICATING HEIGHT IN FEET ABOVE MLLW.
THE MLLW PLANE IS SHOWN THUS:
THE PROJECT DEPTH CURVE IS SHOWN THUS:

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.

LEGEND

PRIMARY CONTROL POINT
COORDINATED SURVEY POINT
UNCOORDINATED SURVEY POINTS
DREDGING RANGES FRONT
RIVER MILEAGE FROM MOUTH
BENCHMARKS
GAGES STAFF
REAR
RECORDING

AIDS TO NAVIGATION

LIGHTHOUSES
LIGHTS — FIXED, FLASHING, OSCILLATING
LIGHTED RANGES — FRONT, REAR
LIGHTED BUOYS — STARBOARD, MID CHANNEL, JUNCTION
UNLIGHTED BUOYS — PORT
DAYBEACONS — PORT 1, STARBOARD
SEASONAL LIGHTS AND LIGHTED DREDGING RANGES

US Army Corps of Engineers
Honolulu District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION

DESIGNED BY: P. TOM
DRAWN BY: P. TOM
TRACED BY:
DATE: JUNE 27, 2013
CHECKED BY: D. CAY
SUBMITTED BY: M. WONG
SCALE: 1" = 1,000'
SIZE: ANSI E
SOLICIT / CONTRACT NO.:
LOCATION CODE
DRAWING NUMBER:
PLOT DATE: 9/11/2013
FILE NAME: FY13_VH101XXX.dgn

U.S. ARMY CORPS OF ENGINEERS
HONOLULU DISTRICT
FT SHAFTER, HAWAII

CIVIL WORKS TECHNICAL BRANCH
DEPTH-EC-T
BUILDING 230
FORT SHAFTER, HAWAII

FY13 HYDROSURVEYS
PORT OF HILO
HYDROGRAPHIC SURVEY
HILO, HAWAII

SITE PLAN & SURVEY NOTES

SHEET IDENTIFICATION
VH101
SHEET OF

FILE: pw\\POH-APP2\TS.poh.ds.usace.army.mil\poh-ap2\ts\Documents\11 Other Locations\3 - Hilo\2013 Hydro\Survey\13HL01\Drawings\13HL01_VH101XXX.dgn
PLOTTER/PEN TABLE: C:\Program Files\Bentley\MicroStation\v8i\Standards\Plotting\13HL01\pltcfg
PEN TABLE: BW_and_Greyscale_Pen
PRINTED BY: jbecj9pr
DATE & TIME: 9/11/2013 2:43:51 PM
LAST SAVED BY:
MODEL NAME: Sheet