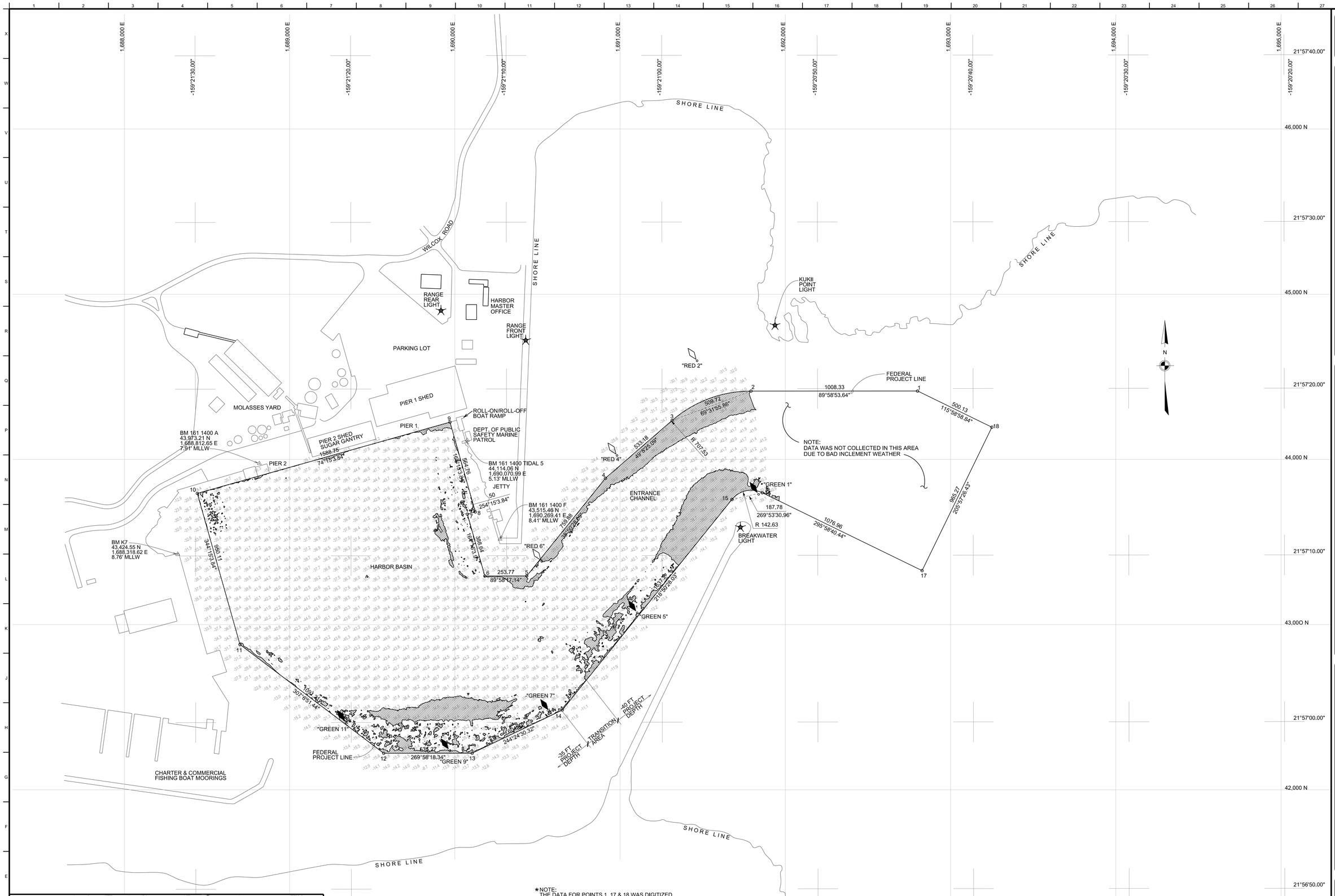


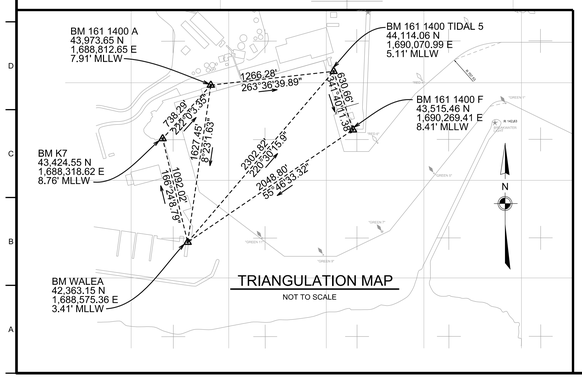


★NOTE:
THE DATA FOR POINTS 1, 17 & 18 WAS DIGITIZED FROM DRAWING TITLED "DESIGN MEMORANDUM PLAN" PLATE 1 DATED MARCH 1956 AND VERIFIED WITH ADDITIONAL DATA FOUND ON DRAWING TITLED "PORT ALLEN HARBOR- NAWILIWILI HARBOR- NAWILIWILI SMALL BOAT HARBOR- PROJECT LINES" A/E SHEET 782550 WITH NO DATE GIVEN, TAKING THE MOUTH OF THE CHANNEL OUT TO THE DAYLIGHT LOCATION AT 40 FEET DEEP.

| NAWILIWILI HARBOR NAVIGATION AIDS | | |
|---|---|---|
| AID NAME | LATITUDE | LONGITUDE |
| KUKII POINT LIGHT | 21°57'23.800" | -159°20'52.700" |
| RANGE FRONT LIGHT | 21°57'22.956" | -159°21'08.784" |
| RANGE REAR LIGHT | 21°57'24.751" | -159°21'14.236" |
| BREAKWATER LIGHT | 21°57'11.682" | -159°20'54.936" |
| ENTRANCE BUOY 1 | 21°57'13.681" | -159°20'53.754" |
| BUOY 2 | 21°57'21.698" | -159°20'57.704" |
| BUOY 4 | 21°57'16.023" | -159°21'02.856" |
| BUOY 5 | 21°57'06.581" | -159°21'01.612" |
| BUOY 6 | 21°57'09.670" | -159°21'07.701" |
| LIGHTED BUOY 7 | 21°57'00.667" | -159°21'07.225" |
| BUOY 9 | 21°56'58.319" | -159°21'13.636" |
| BUOY 11 | 21°57'00.023" | -159°21'20.297" |

| FEDERAL PROJECT LINE COORDINATES | | |
|---|---|---|
| | EASTING | NORTHING |
| ★1 | 1,692,796.37 | 44,411.84 |
| 2 | 1,691,788.04 | 44,411.51 |
| 3 | 1,691,310.51 | 44,233.28 |
| 4 | 1,690,907.56 | 43,884.11 |
| 5 | 1,690,430.99 | 43,292.25 |
| 6 | 1,690,177.22 | 43,292.12 |
| 7 | 1,690,071.73 | 43,666.18 |
| 8 | 1,690,119.85 | 43,679.74 |
| 9 | 1,689,966.56 | 44,223.30 |
| 10 | 1,688,437.34 | 43,792.49 |
| 11 | 1,688,695.34 | 42,877.64 |
| 12 | 1,689,565.50 | 42,219.20 |
| 13 | 1,690,100.77 | 42,219.47 |
| 14 | 1,690,646.04 | 42,480.61 |
| 15 | 1,691,672.83 | 43,755.81 |
| 16 | 1,691,855.31 | 43,796.57 |
| ★17 | 1,692,823.45 | 43,324.83 |
| ★18 | 1,693,245.95 | 44,192.73 |

CONDITION SURVEY

NOTES

APPROX. BANKLINE DIGITIZED FROM SATELLITE IMAGERY TAKEN IN 2003.

DEPTHS TAKEN FROM HYDROGRAPHICS SURVEY COMPLETED BY U.S. ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT ON 14 JANUARY, 2020.

COORDINATES BASED ON NAD 1983 2011, HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 4, U.S. SURVEY FEET.

DATUM IS MEAN LOWER LOW WATER (MLLW). THE LOCAL TIDAL DATUM IS REFERENCED TO THE MOST RECENT EPOCH (1983-2001).

SOUNDINGS ARE SHOWN IN FEET AND INDICATED 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:

LONGITUDE/LATITUDE IS REFERENCED TO NAD 83 HARN (1993).

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.

THE EXISTING PROJECT

PROVIDES FOR AN ENTRANCE CHANNEL 40 FEET DEEP AND A HARBOR BASIN AREA 35 FEET DEEP.

LEGEND

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

AIDS TO NAVIGATION

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

PROJECTION: HAWAII STATE PLANE ZONE 4 (FEET)
HORIZONTAL DATUM: NAD83 2011
VERTICAL DATUM: LOCAL TIDAL DATUM - MLLW (1983-2001)
GEOID: HAWAII 2009
TIDAL STATION: 1611400

| BM NAME | NORTHING | EASTING | MLLW (FT) |
|---|---|---|---|
| 161 1400 A | 43,973.21 | 1,688,812.65 | 7.91 |
| 161 1400 F | 43,515.46 | 1,690,269.41 | 8.41 |
| 161 1400 TIDAL 5 | 44,114.06 | 1,690,070.99 | 5.13 |

CUT VOLUME = 24,349 CY

GRAPHIC SCALE
200 0 200 400 600
SCALE:1"=200'

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

US Army Corps of Engineers®

| MARK | DESCRIPTION | DATE |
|---|---|---|
| | | |

| MARK | DESCRIPTION | DATE |
|---|---|---|
| | | |

ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY:
SCALE: AS SHOWN
SIZE: ANSI E
2020/01_VH101.dgn

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

CIVIL WORKS TECHNICAL BRANCH
CEPOH-ECT
BUILDING 230
FORT SHAFTER, HAWAII

FY20 HYDROSURVEYS
NAWILIWILI SMALL BOAT HARBOR
HYDROGRAPHIC SURVEY
KAUAI, HAWAII

SITE PLAN & SURVEY NOTES

SHEET ID
VH101