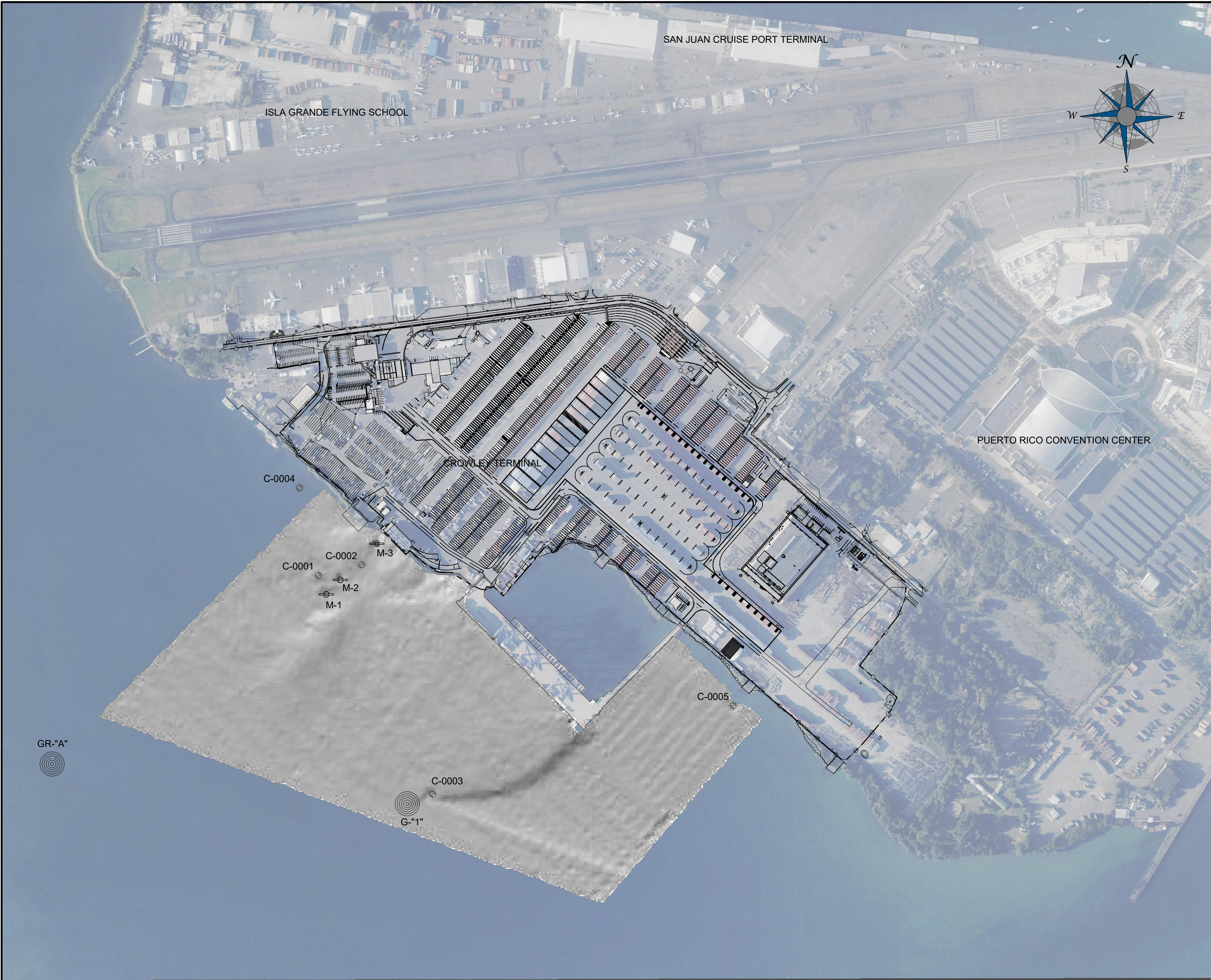
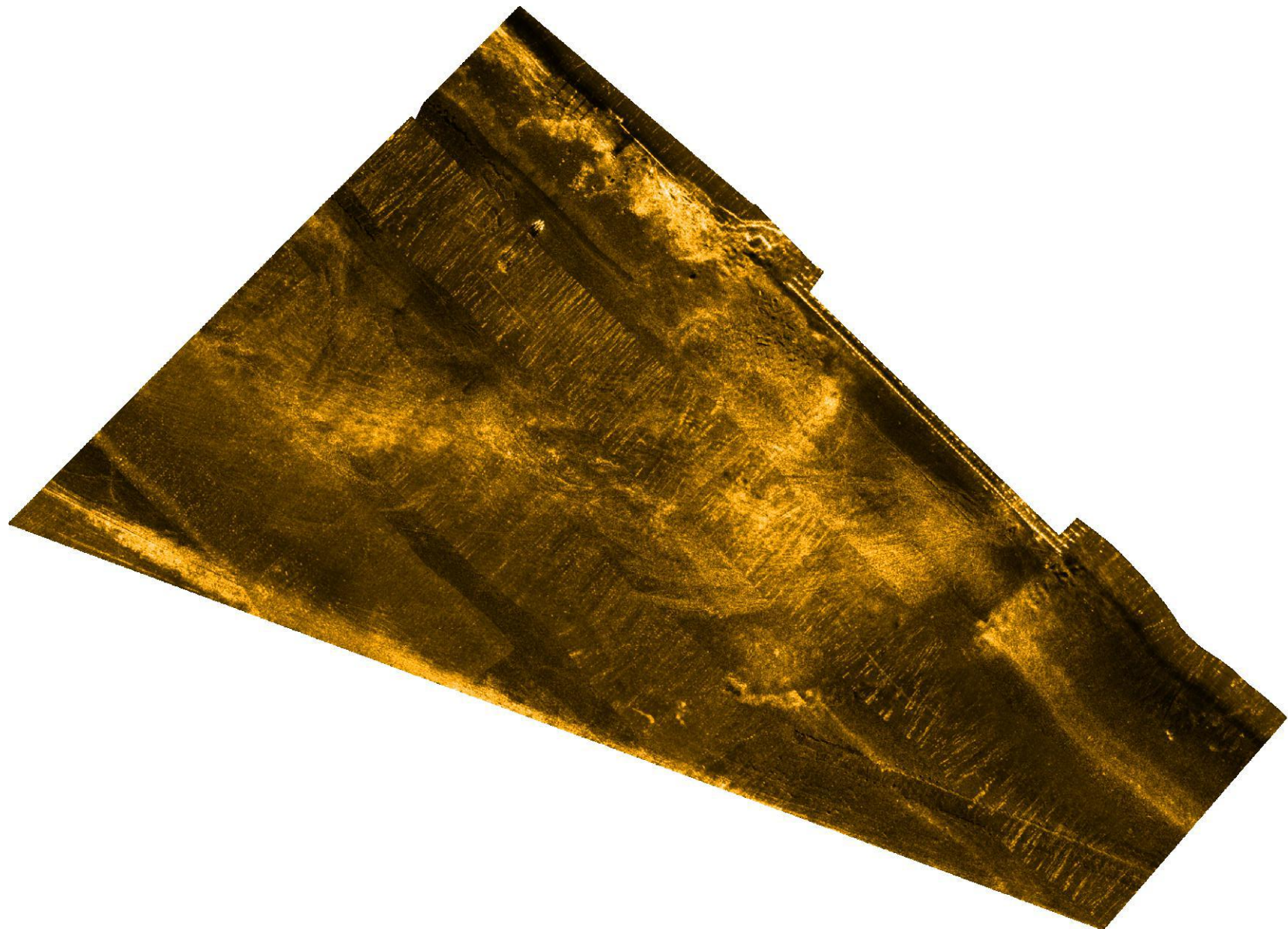




AERIAL IMAGERY

SCALE 1" = 350'



SIDESCAN MOSAIC

NOT TO SCALE



HYDROGRAPHIC (BATHYMETRIC) SURVEY FOR CROWLEY TERMINAL LOCATED AT SAN JUAN BAY, MUNICIPALITY OF SAN JUAN, PUERTO RICO.

INDEX OF DRAWINGS:

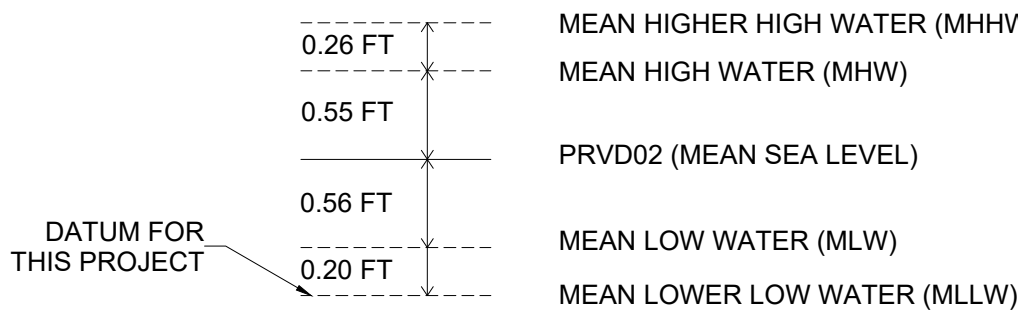
SHEET NO.	DESCRIPTION
VF-1	TITLE SHEET, INDEX, GENERAL NOTES, LEGEND, MAPS AND CONTROLS.
VF-2	HYDROGRAPHIC (BATHYMETRIC) SURVEY

GENERAL NOTES :

- ALL DISTANCES ARE EXPRESSED IN US SURVEY FEET, UNLESS OTHERWISE NOTED.
- FIELDWORK PERFORMED ON NOVEMBER 13, 2024.
- HORIZONTAL CONTROLS ARE REFERRED TO NAD 83 (2011) EPOCH 2010.00.
- VERTICAL DATUM IS REFERRED TO MEAN LOWER LOW WATER.
- PLEASE REFER TO SURVEY JEB-5216.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF THE SURVEY MADE ON THE DATE INDICATED AND CAN BE ONLY CONSIDERED AS AN INDICATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- AERIAL IMAGERY, SHOWN FOR REFERENCE PURPOSES. ONLY INFORMATION COLLECTED ON GROUND SHALL BE USED FOR ENGINEERING DESIGN.
- EQUIPMENT UTILIZED FOR THIS SURVEY:
 - A) VESSEL: SURVEYOR 5
 - B) MULTIBEAM SOUNDER: PING 3DSS-IDX-PRO SONAR.
 - C) POSITIONING: SEPTENTRIO POLA NT MC V2 GNSS RECEIVERS.
 - D) IMU: SBG EQUINOX MOTION SENSOR.
 - E) SOFTWARE: HYPACK, AUTOCAD CIVIL 3D & CARLSON SURVEY.
- THE DETAILED FINDINGS OF THE SIDESCAN ARE INCLUDED IN THE PROJECT REPORT "5216_HYD_REP.PDF", HEREBY MADE PART OF THESE DRAWINGS AND NOT VALID IF SEPARATED FROM EACH OTHER.
- TIDAL REDUCTIONS WERE REFERENCED FROM TIDAL BENCHMARK DESIGNATED "975 5371" WHICH WAS PROVIDED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA).
- ALL ELEVATIONS SHOWN HEREON ARE IN FEET AND TENTHS AND REFER TO THE NOAA REPORTED MEAN LOWER LOW WATER (MLLW) TIDAL DATUM RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- CONTOURS SHOWN HEREON WERE GENERATED AT 1 FOOT INTERVALS, DERIVED FROM A 10X10 MATRIX OF THE PROCESSED SWEEP DATA.
- NAVAIDS SHOWN ARE FROM A NOAA CHART NUMBER 25870, 44TH EDITION JUNE 2011, LAST CORRECTION OCTOBER 9, 2018 TITLED "BAHIA DE SAN JUAN".

PROJECT DATUMS DIAGRAM

- A. DATUM: MEAN LOWER LOW WATER (MLLW).
B. UNITS: US SURVEY FOOT
C. TIDAL BENCHMARK 975 5371
D. GRAPHIC: DIFFERENCE BETWEEN MEAN SEA LEVEL & MEAN LOWER LOW WATER.



E. LEGEND: -33.45 DEPTH BELOW MLLW.

TARGETS TABLE

TARGET	COORDINATES				DESCRIPTION
	NORTHING	EASTING	LATITUDE	LONGITUDE	
CONTACT0001 (C-0001)	883667.35	772448.46	N18° 27' 04.36"	W66° 06' 06.85"	UNKNOWN OBJECT
CONTACT0002 (C-0002)	883676.39	771389.37	N18° 27' 04.89"	W66° 06' 09.24"	POSSIBLE TIRES
CONTACT0003 (C-0003)	883669.70	771424.93	N18° 26' 53.35"	W66° 06' 05.52"	POSSIBLE 6"X1" ANCHOR
CONTACT0004 (C-0004)	883682.36	771433.23	N18° 27' 08.77"	W66° 06' 12.50"	POSSIBLE SHIP WRECK
CONTACT0005 (C-0005)	883660.91	771673.31	N18° 26' 57.77"	W66° 05' 49.65"	POSSIBLE SEAPLANE RAMP

AIDS TO NAVIGATION

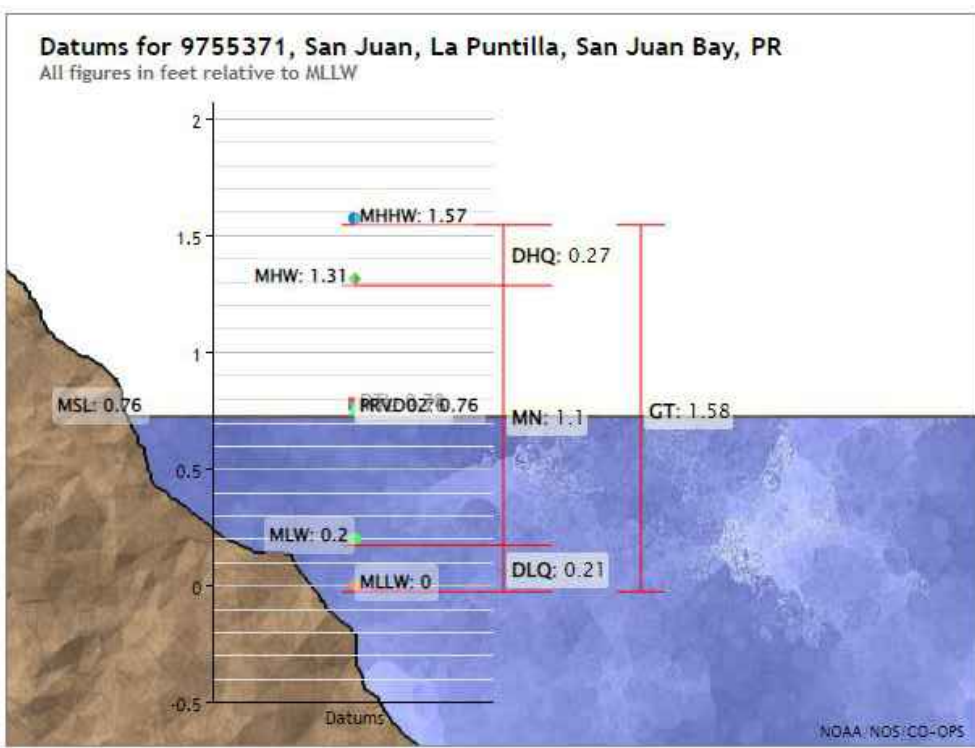
AID	COORDINATES			
	NORTHING	EASTING	LATITUDE	LONGITUDE
GREEN-CAN-1	879682.34	769227.06	N18° 26' 54.90"	W66° 06' 25.58"
RED & GREEN CAN-A	879480.50	771030.14	N18° 26' 52.86"	W66° 06' 06.85"

MOORING TABLE

MOORING	COORDINATES			
	NORTHING	EASTING	LATITUDE	LONGITUDE
M-1	880544.77	770619.67	N18° 27' 03.42"	W66° 06' 11.09"
M-2	880615.53	770690.72	N18° 27' 04.12"	W66° 06' 10.35"
M-3	880799.52	770875.79	N18° 27' 05.94"	W66° 06' 08.43"

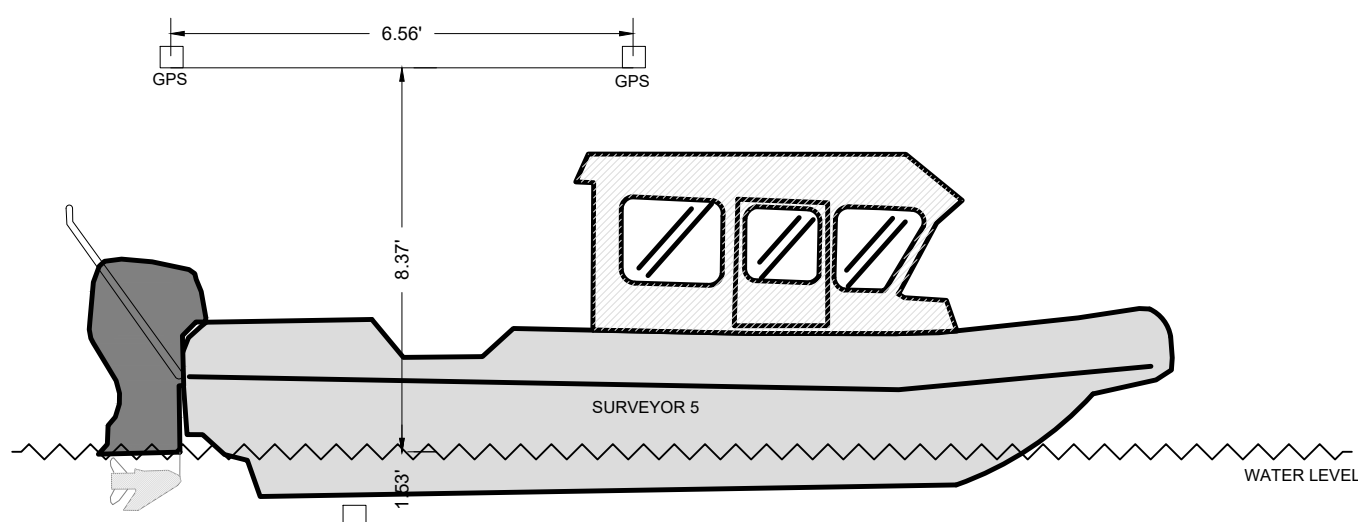
MAIN LEGEND

- 35.4 SPOT ELEVATIONS (DEPTH BELOW MLLW)
- CONTOUR INTERVAL EVERY 1.0 FOOT
- CONTOUR INTERVAL EVERY 5 FEET
- EXISTING STRUCTURES
- BUOY (AID TO NAVIGATION)
- C-0001 CONTACTS / TARGETS (SEE PROJECT REPORT)
- MOORING



NOAA TIDES DATUM DIAGRAM

NOT TO SCALE



SURVEYOR 5 VESSEL DIAGRAM

NOT TO SCALE

JAVIER E. BIDOT
ASSOCIATES, PSC
Land Surveyors & Consultants



HYDROGRAPHIC (BATHYMETRIC) SURVEY
FOR CROWLEY TERMINAL
LOCATED AT SAN JUAN BAY
MUNICIPALITY OF SAN JUAN, PUERTO RICO

LAST DAY OF FIELD SURVEY NOV 13, 2024
DRAWN BY: J.C.R.
CHECKED BY: C. LEBRON
SCALE: AS SHOWN

CERTIFY CORRECT
I, CARLOS M. LEBRON CABRERA, LAND SURVEYOR, LIC. NO. 23744, HEREBY CERTIFY THAT THIS PLAN IS AN EXACT AND TRUE GRAPHIC REPRESENTATION OF THE EXISTING CONDITIONS.

DRAWING TITLE:
TITLE SHEET, INDEX,
GENERAL NOTES,
LEGEND, MAPS
AND CONTROLS

DATE: NOV 22, 2024
PROJECT: JEB-5216
SHEET NO.: 1
OF: 2
PAPER SIZE: 24x36

