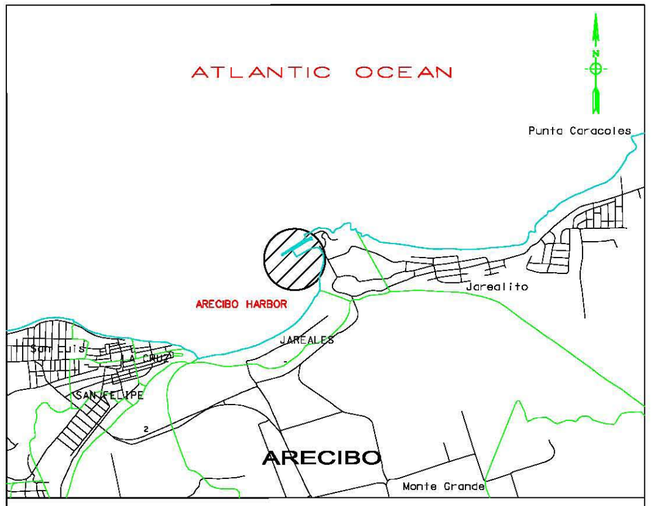
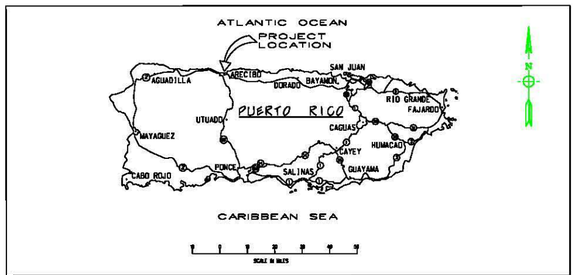
SAFTEY ON THIS JOB DEPENDS ON YOU

ARECIBO HARBOR
ARECIBO, PUERTO RICO
EXAMINATION SURVEY
FY12

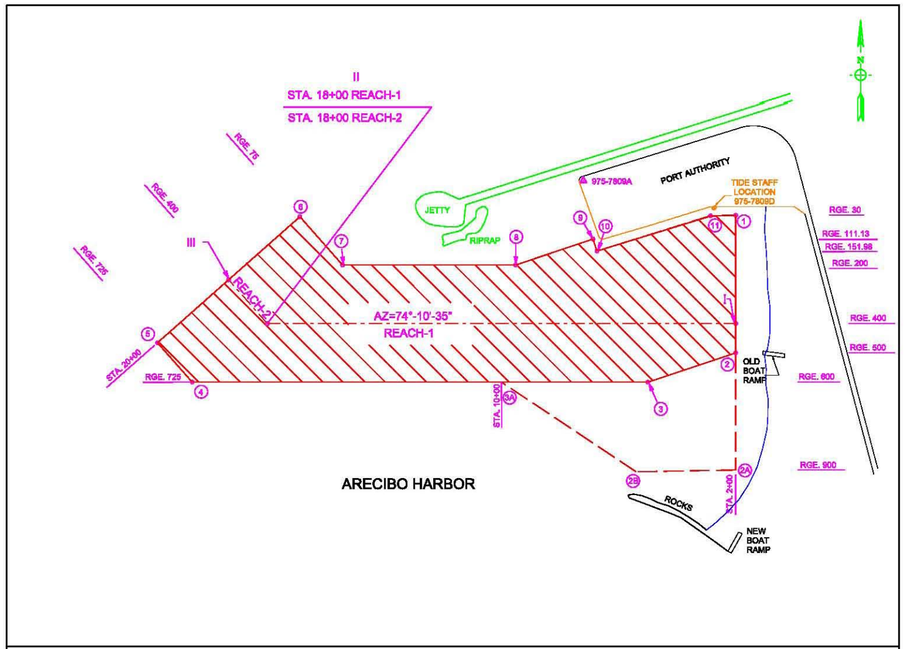


LOCATION PLAN

NOT TO SCALE



LOCATION MAP



SURVEY LIMITS

NOT TO SCALE

SURVEY NOTES:

1. REFER TO SURVEY NO. 12-020.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) TIDAL DATUM WHICH IS 0.81 FEET BELOW PRVD02.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE USING RTK GPS AND CALIBRATED TO THE PUBLISHED MLLW HEIGHT OF THE BENCH MARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFED BELOW:

   NOAA TIDAL STATION "975-7809" FOR ENTIRE PROJECT.
5. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS, NORTH ZONE, AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "975-7809 A TIDAL" (OPUS PID# BBBZ57)

   VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835 SMART SOUNDER WITH DUAL-FREQUENCY TRANSDUCER. SOUNDINGS SHOWN ARE IN HIGH-FREQUENCY (200KHZ).

VESSEL	DATE OF SURVEY	CUT
SB-38	6 NOV 2011	REACH-1 & REACH-2

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

CENTERLINE CONTROL POINT	PLANE COORDINATES (NAD83/86 FT) X	Y	STATION	RANGE	REACH
I	563,532.16	890,997.62	2+00	400	1
II	561,992.78	890,561.34	18+00	400	1
			18+00	400	2
III	561,824.44	890,669.33	20+00	400	2

CHANNEL CONTROL POINT	PLANE COORDINATES (NAD-83/86 FT) X	Y	STATION	RANGE	REACH
1	563,431.27	891,353.60	2+00	30	1
2	563,559.43	890,901.41	2+00	500	1
3	563,298.06	890,723.40	5+00	600	1
4	561,800.06	890,298.84	18+20.48	725	2
5	561,648.96	890,395.78	20+00	725	2
6	561,999.92	890,942.88	20+00	75	2
7	562,185.50	890,823.84	15+43	200	1
8	562,753.95	890,984.94	9+52.18	200	1
9	562,984.38	891,142.62	6+87.49	111.13	1
10	563,008.58	891,107.02	6+73.91	151.98	1
11	563,348.95	891,328.67	2+86	31.54	1
2A	563,668.50	890,516.57	2+00	900	1
2B	563,341.38	890,423.88	5+40	900	1
3A	562,617.01	890,587.06	10+00	600	1

LEGEND

BM	BENCHMARK
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
C	CAN BUOY
N	NUN BUOY
	TIDE STAFF

Relationship between PRVD02 and Mean Lower Low Water

US Army Corps of Engineers
Jacksonville District

No.	SYM	ZONE	DESCRIPTION

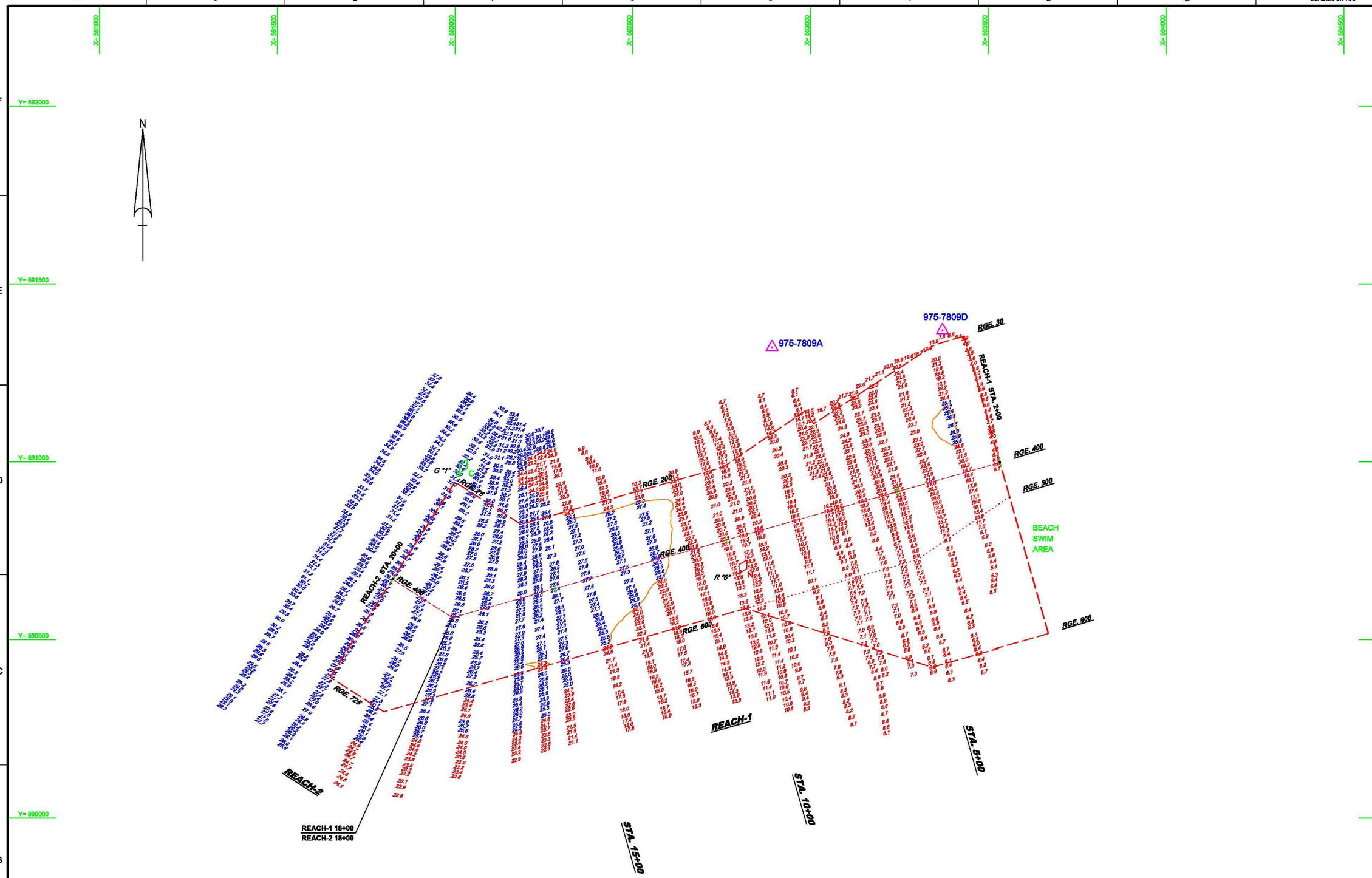
DATE: DEC 2011
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:
DESIGNED BY:
DWN BY: F.M.W.
CKD BY:
SUBMITTED BY:
PLOT DATE:
PLOT SCALE: AS SHOWN
FILE NAME: 12-020-VH-SH01.DGN

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
JACKSONVILLE, FLORIDA

ARECIBO HARBOR, PUERTO RICO
EXAMINATION SURVEY FY12
25-FOOT PROJECT
REACH 1 AND REACH 2
PLAN

DRAWING NO.
1 / 2

SAFTEY ON THIS JOB DEPENDS ON YOU



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
GREEN CAN BUOY-1	562,010	890,964
RED NUN BUOY-6	562,796	890,682

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 12-020 .
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville Distfict

No.	SYM	ZONE	DESCRIPTION

DESIGNED BY:
DWN BY: F.M.W.
CKD BY:
SUBMITTED BY:
PLOT SCALE: AS SHOWN
PLOT DATE:
DATE: DEC 2011
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:
FILE NAME: 12-020-VH-SHB2.DGN

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
JACKSONVILLE, FLORIDA

ARECIBO HARBOR, PUERTO RICO

EXAMINATION SURVEY FY12
25-FOOT PROJECT

REACH 1 AND REACH 2

PLAN

DRAWING NO.

2 / 2