INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHN'S COUNTY
PROJECT CONDITION SURVEY

NAVD 1988

2.65 feet

M.L.L.W.

Relationship between NAVD 1988 and NOAA'S Mean Lower Low Water (1983-2001 Tidal Epoch)

BENCHMARK	NAVD ELEV.(FT)
IWSJ-224 1997	6.26

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

SURVEY NOTES:

1. REFER TO SURVEY NO.09-119.

2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.

3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.

4. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS POSITIONING WITH A NAVD88/MLLW SEPARATION = -2.65'.

5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA 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. SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

"REFERENCE BASE LOCATED AT "IWSJ-224 1977"

LAT: 29°41'57.39845" N
LON: 081°13'52.01493" W
ELLIPSOID HEIGHT: -26.866'
NAVD88 ELEVATION: 6.26'

"TIDE STAFF ESTABLISHED FROM "IWSJ-224 1977"

LAT: 29°41'57.39845" N
LON: 081°13'52.01493" W
ELLIPSOID HEIGHT: -26.866'
NAVD88 ELEVATION: 6.26'

VERTICAL MEASUREMENTS WERE MADE USING AN ROSS SMARTSOUNDER DUAL FREQUENCY 28/200KHZ SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN ARE IN HIGH FREQUENCY (200KHZ).

VESSEL	DATE OF SURVEY	CUT
WB-32	5-7 AUG 2009	SJ 59-61

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 SURVEYS, 1 JAN 02.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

Designed by: WRM
Dwn by: WRM
Ckd by: DT
Scale: AS SHOWN
Date: AUG 2009
D.O. FILE NO.

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHN'S COUNTY
PROJECT CONDITION SURVEY
12-FOOT PROJECT
VICINITY OF MATANZAS INLET
COVER SHEET

DRAWING NO.
1/4
SHEET 1 OF 82

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-79 (08/09)	577,118	1,958,877	29°43'38.68"	81°14'56.56"
DBN-80 (08/09)	577,491	1,959,836	29°43'28.38"	81°14'52.38"
LT-81 (08/09)	578,226	1,959,382	29°43'23.82"	81°14'43.96"

MATCHLINE SHEET NO. 73 STA. 1+00 CUT SJ-58

MATCHLINE SHEET NO. 75 STA. 1+00 CUT SJ-60

P.I.STA.11+41.10 CUT SJ-58
P.I.STA 0+00 CUT SJ-59

P.I.STA.23+83.80 CUT SJ-59
P.I.STA.0+00 CUT SJ-60

CUT SJ-58
AZ-2-00-58

CUT SJ-59
AZ-326-20-05

CUT SJ-60
AZ-02-31-55

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO.09-119.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

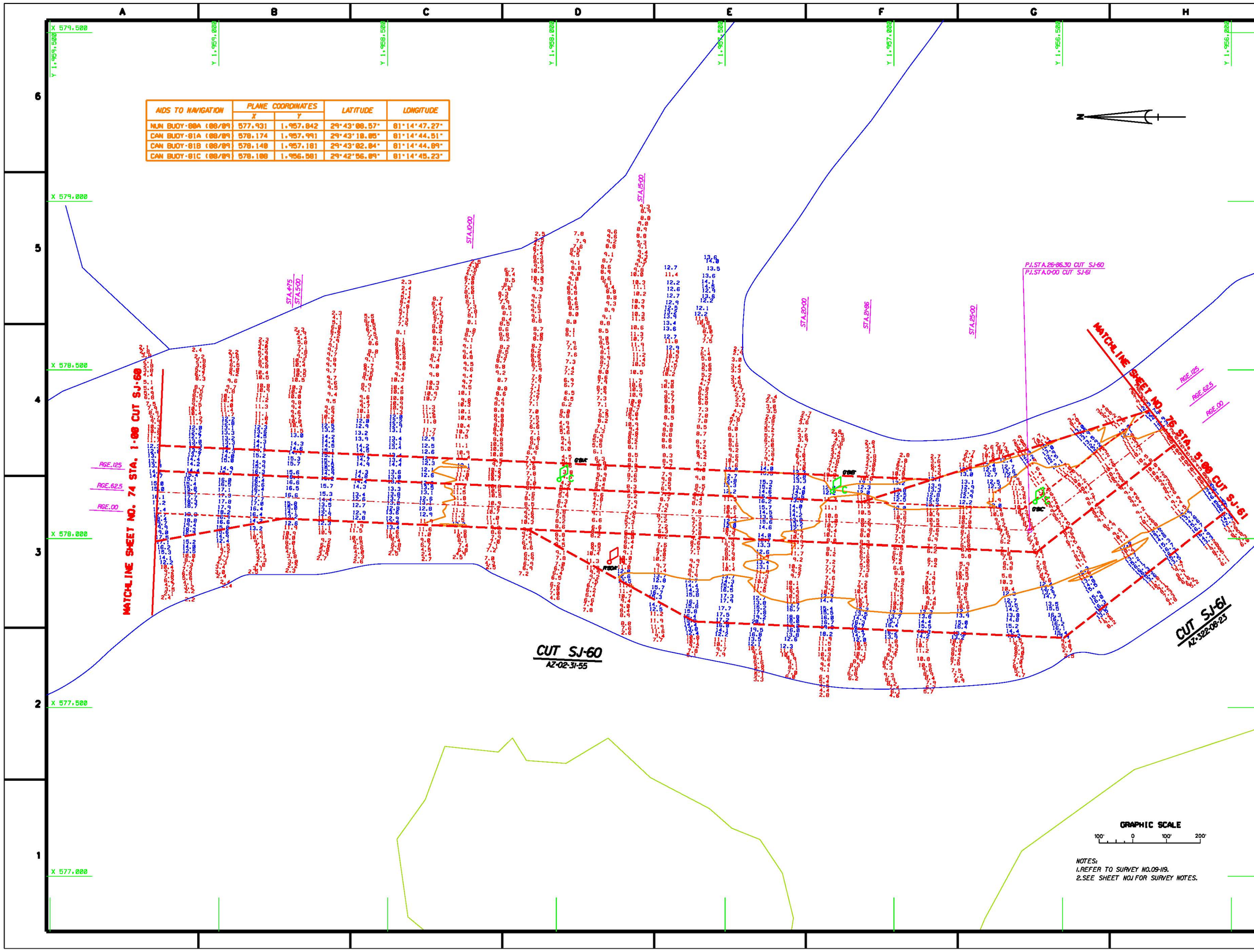
US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHN'S COUNTY
PROJECT CONDITION SURVEY
12-FOOT PROJECT
STA. 1+00 CUT SJ-58 THRU STA. 1+00 CUT SJ-60
PLAN

DRAWING NO.
2/4
SHEET 74 OF 82



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
NUN BUOY-80A (08/09	577,931	1,957,842	29°43'08.57"	81°14'47.27"
CAN BUOY-81A (08/09	578,174	1,957,991	29°43'10.05"	81°14'44.51"
CAN BUOY-81B (08/09	578,140	1,957,181	29°43'02.04"	81°14'44.89"
CAN BUOY-81C (08/09	578,108	1,956,581	29°42'56.09"	81°14'45.23"

NOTES:
1.REFER TO SURVEY NO.09-119.
2.SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

Designed by: WWW
Dwn by: WWW
Ckd by: DT
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

Date: AUG 2009
D.O.FILE NO. XXX-XX,XXX

File name: 09-119SH75.DGN
Reference files: SHORELINE.DGN, SJ_CHS1.DGN, SJ_TOPO5.DGN, 09-119SJ60.DGN, 09-119SJ61.DGN, 09-119HAV.DGN, CONTR2.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHN'S COUNTY

PROJECT CONDITION SURVEY
12-FOOT PROJECT

STA.1+00 CUT SJ-60 THRU STA.5+00 CUT SJ-61
PLAN

DRAWING NO.
3/4

SHEET 75 OF 82

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-81D (08/09	578,682	1,956,089	29°42'50.44"	81°14'39.62"
LT-82 (08/09)	578,757	1,955,388	29°42'44.29"	81°14'37.84"

Y 1,957,000
Y 1,956,500
Y 1,956,000
Y 1,955,500
Y 1,955,000
Y 1,954,500
X 579,000
X 579,500
X 578,000
X 577,500

STA.1000
STA.1500
STA.2000
STA.2500
STA.3000

MATCHLINE SHEET NO. 75 STA. 5+00 CUT SJ-61

MATCHLINE SHEET NO. 77 STA. 35+00 CUT SJ-61

RGE.125
RGE.62.5
RGE.00

CUT SJ-61
AZ-322-08-23

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO.09-119.
2. SEE SHEET NO1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

PROJECT CONDITION SURVEY
12-FOOT PROJECT

STA. 5+00 THRU STA. 35+00 CUT SJ-61
PLAN

DRAWING NO.
4/4

SHEET 76 OF 82