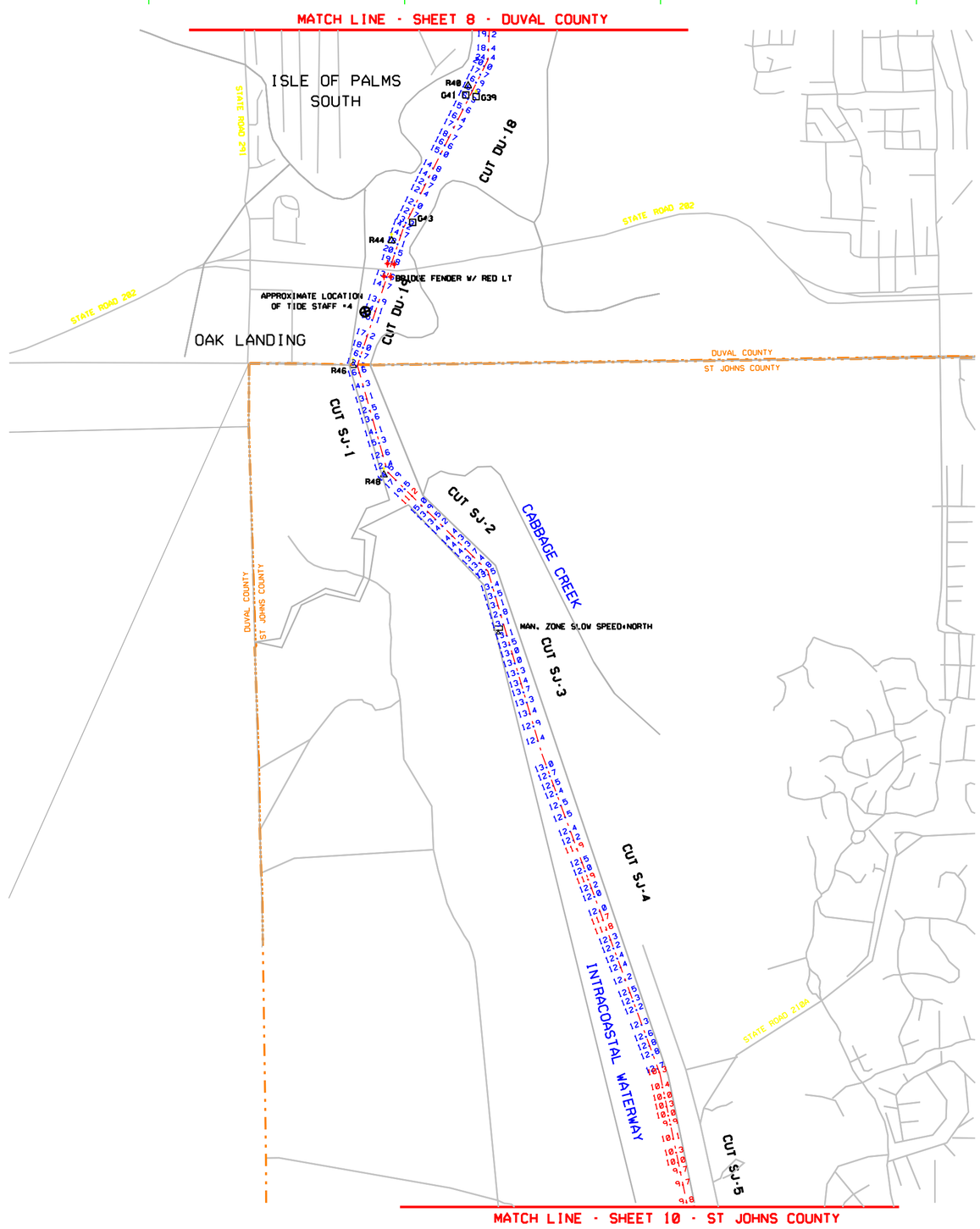
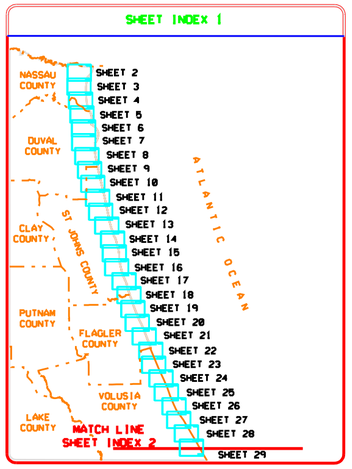



| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R40 | 366.239 | 2.157.202 | 30°16'01.30" | 081°25'25.34" |
| G41 | 366.239 | 2.157.023 | 30°15'59.53" | 081°25'25.85" |
| G39 | 366.397 | 2.156.991 | 30°15'59.21" | 081°25'23.52" |
| G43 | 365.156 | 2.154.535 | 30°15'34.86" | 081°25'37.57" |
| R44 | 364.743 | 2.154.177 | 30°15'31.29" | 081°25'42.26" |
| R46 | 363.991 | 2.151.734 | 30°15'07.09" | 081°25'50.74" |
| R48 | 364.593 | 2.149.600 | 30°14'45.99" | 081°25'43.78" |

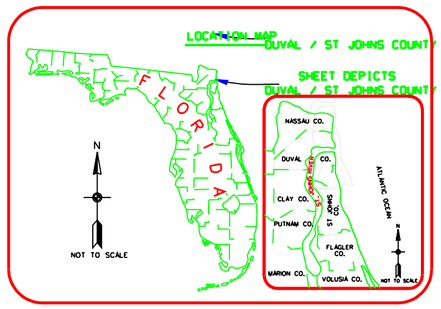
**TIDE STAFF TABULATION**

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 4 | NOS '0305 C 1978' | 11.53 |
| | NOS '0305 B 1978' | 11.68 |

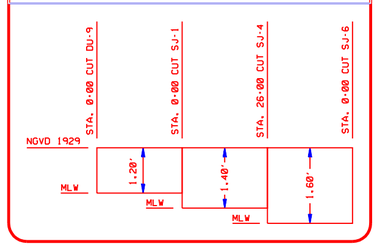
**SHEET INDEX 1**




**LOCATION MAP**
DUVAL / ST JOHNS COUNTY




**RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER**




**SURVEY LEGEND**

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

**GRAPHIC SCALE**
1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

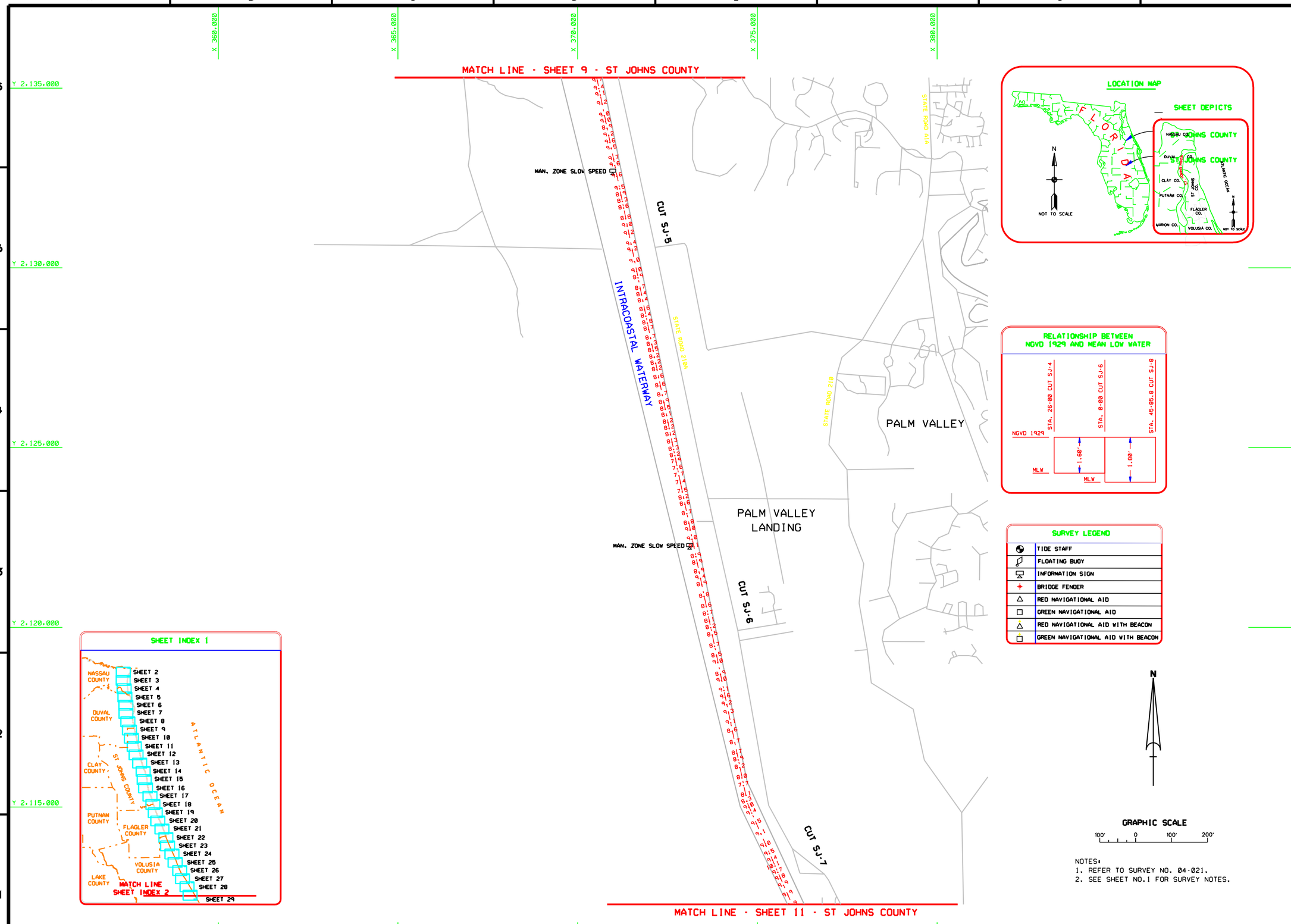
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Dwg No. DACW17-XX-X-XXXX
Date/yr XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
Designed by: XXX
Dwn by: PCS
Ckd by: WRN
Date: JUN 2004
D.O.FILE NO. XXXX-XX.XXXX
File name: F:\02\SJ\HDD.DGN
Reference files: SJ-DU-SJ-DU.DGN BROWB.DGN DUVABASE.DGN F:\02\DUVSJ\ADC.DGN DUVAL.DGN ST JOCL.DGN INDEX1.DGN F:\02\SJ\SJADC.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
DUVAL AND ST. JOHNS COUNTY
CUT DU-17 THRU CUT SJ-5
PLAN

DRAWING NO.
9/89

SHEET 9 OF 89










## SURVEY LEGEND

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |




N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Dwg. No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: XXX
Dwn by: PES
Ckd by: DRW

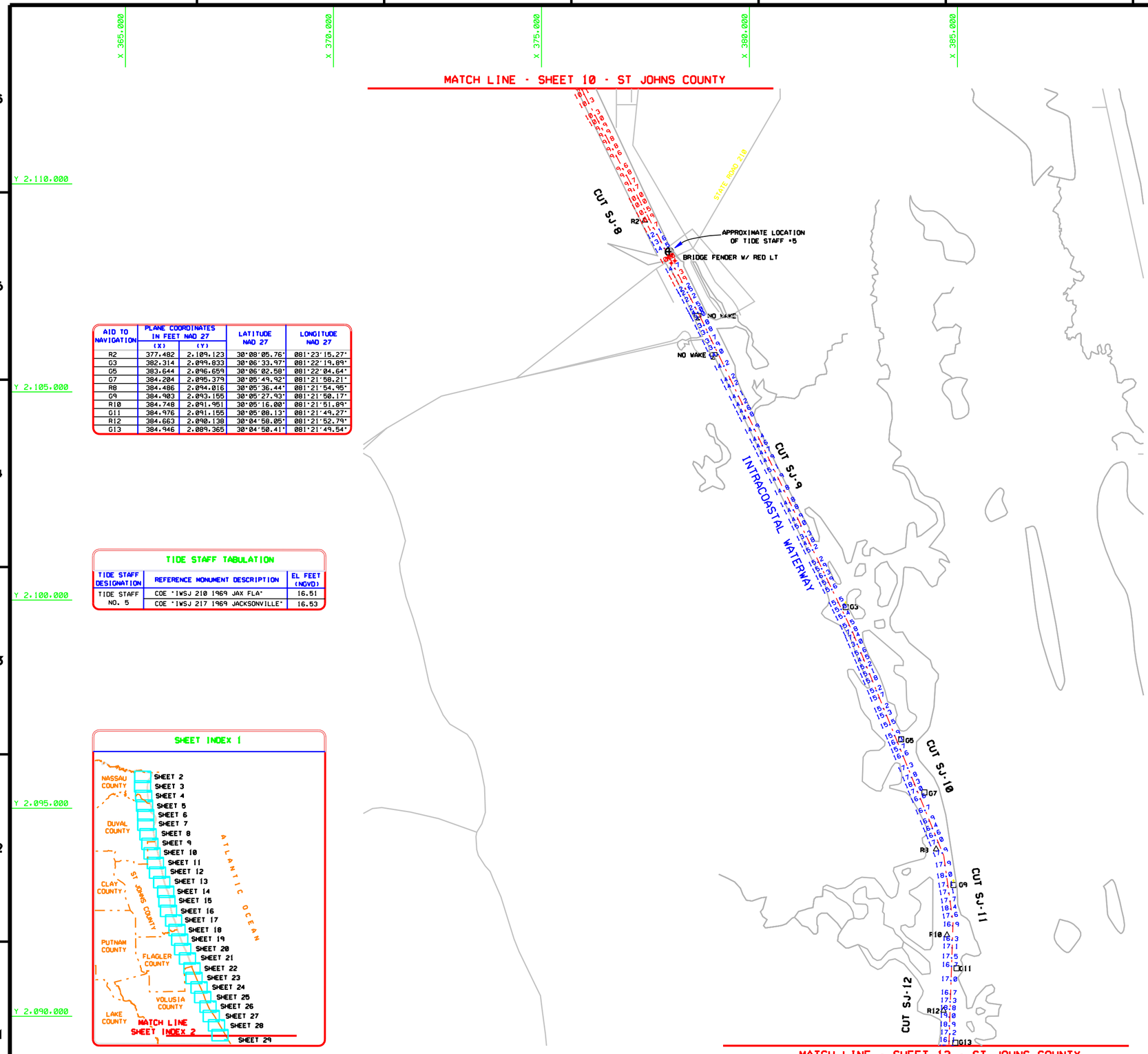
Date: JUN 2004
D.O.FILE NO. XXXX-XX.XXXX

File name: F02150R0.DGN
Reference files: S1-CUT-SJ7.DGN B90098.DGN S1-DCL.DGN F02150R0.DGN INDEX1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
CUT SJ-3 THRU CUT SJ-7
PLAN

DRAWING NO.
10/89

SHEET 10 OF 89




| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R2 | 377,482 | 2,109,123 | 30°08'05.76" | 081°23'15.27" |
| G3 | 382,314 | 2,099,833 | 30°06'33.97" | 081°22'19.89" |
| G5 | 383,644 | 2,096,659 | 30°06'02.58" | 081°22'04.64" |
| G7 | 384,204 | 2,095,379 | 30°05'49.92" | 081°21'58.21" |
| R8 | 384,486 | 2,094,016 | 30°05'36.44" | 081°21'54.95" |
| G9 | 384,903 | 2,093,155 | 30°05'27.93" | 081°21'50.17" |
| R10 | 384,748 | 2,091,951 | 30°05'16.00" | 081°21'51.89" |
| G11 | 384,976 | 2,091,155 | 30°05'08.13" | 081°21'49.27" |
| R12 | 384,663 | 2,090,138 | 30°04'58.05" | 081°21'52.79" |
| G13 | 384,946 | 2,089,365 | 30°04'50.41" | 081°21'49.54" |

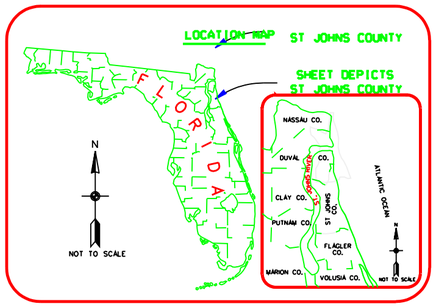
**TIDE STAFF TABULATION**

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 5 | COE "IWSJ 210 1969 JAX FLA" | 16.51 |
| | COE "IWSJ 217 1969 JACKSONVILLE" | 16.53 |

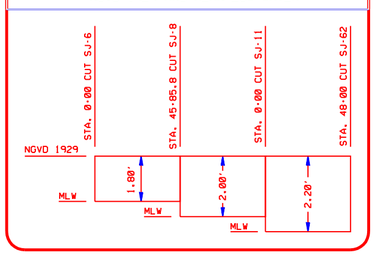
**SHEET INDEX 1**




**LOCATION MAP** ST JOHNS COUNTY




**RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER**




**SURVEY LEGEND**

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| △ | RED NAVIGATIONAL AID |
| □ | GREEN NAVIGATIONAL AID |
| △ | RED NAVIGATIONAL AID WITH BEACON |
| □ | GREEN NAVIGATIONAL AID WITH BEACON |

N

**GRAPHIC SCALE**

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Proj. No. DACW17-XX-X-XXXX
Design XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX.X

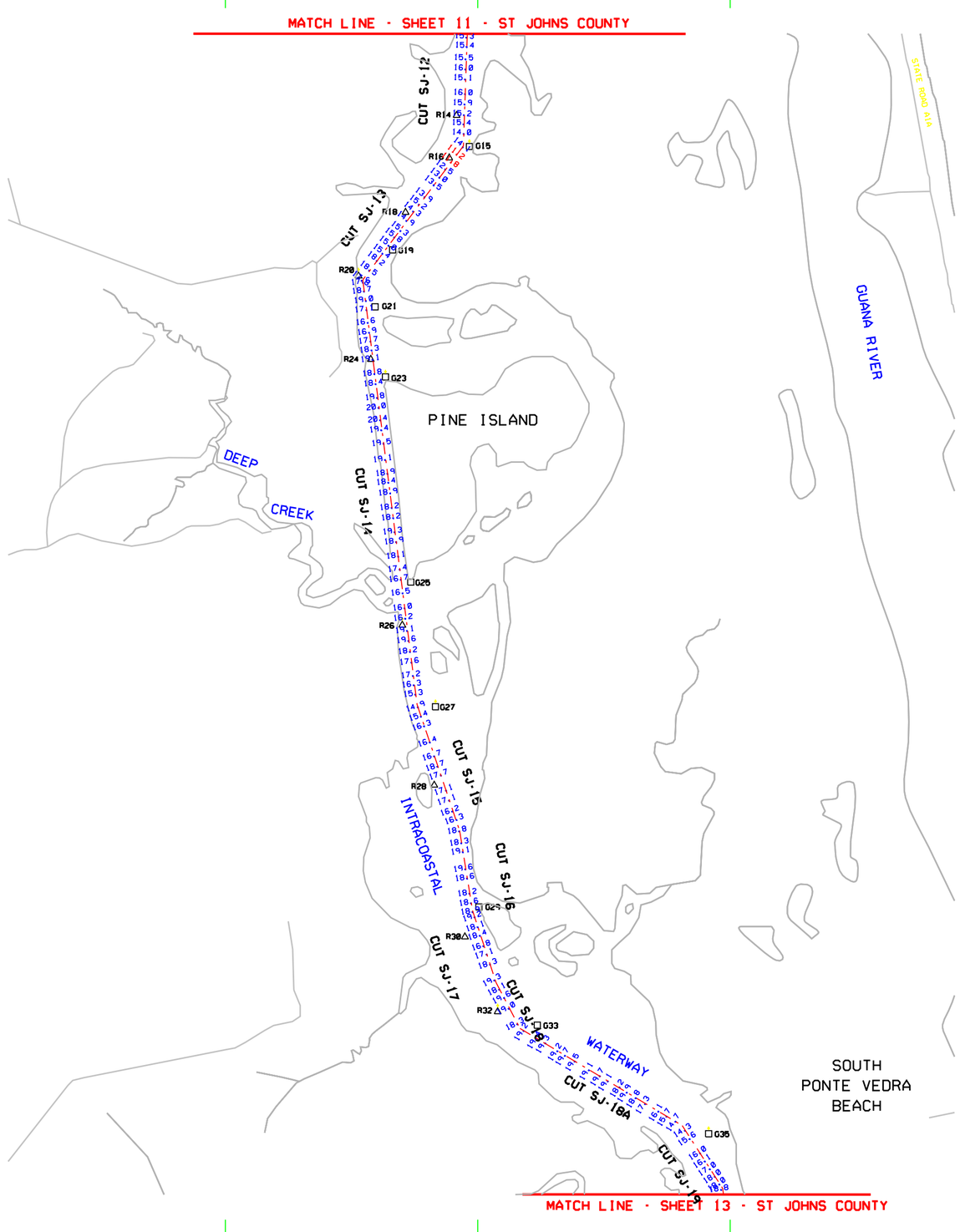
Designed by XXX
Dwn by PKS
Ckd by WMW
Date JUN 2004
D.O. FILE NO. XXXX-XXX.XXX

File name: F02PSHXI.DGN
Reference files: S1JOCL.DGN BRIDGE.DGN S1JOCL.DGN F02TS-SHXC.DGN INDEX1.DGN

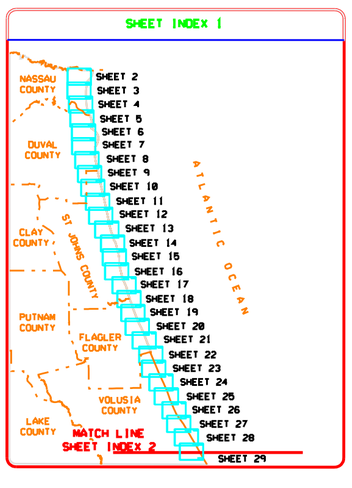
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
CUT SJ-8 THRU CUT SJ-12
PLAN

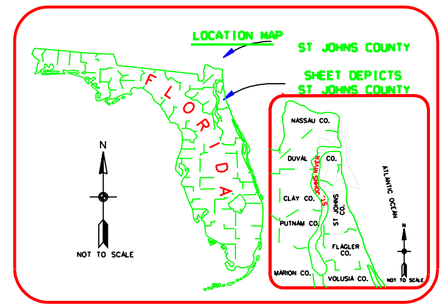
DRAWING NO.
11/89

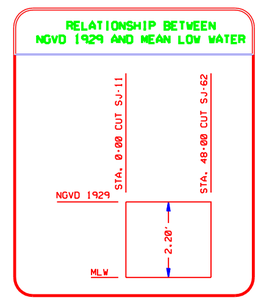
SHEET 11 OF 89




| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R14 | 384.581 | 2.087.675 | 30°04'33.67" | 081°21'53.64" |
| G15 | 384.834 | 2.087.060 | 30°04'27.59" | 081°21'50.73" |
| R16 | 384.434 | 2.086.833 | 30°04'25.33" | 081°21'55.28" |
| R18 | 383.569 | 2.085.754 | 30°04'14.62" | 081°22'05.08" |
| G19 | 383.315 | 2.085.009 | 30°04'07.24" | 081°22'07.95" |
| R20 | 382.636 | 2.084.495 | 30°04'02.13" | 081°22'15.66" |
| G21 | 382.964 | 2.083.883 | 30°03'56.08" | 081°22'11.90" |
| R24 | 382.880 | 2.082.840 | 30°03'45.75" | 081°22'12.82" |
| G23 | 383.171 | 2.082.492 | 30°03'42.32" | 081°22'09.49" |
| G25 | 383.672 | 2.078.427 | 30°03'02.09" | 081°22'03.64" |
| R26 | 383.504 | 2.077.575 | 30°02'53.65" | 081°22'05.52" |
| G27 | 384.162 | 2.075.959 | 30°02'37.68" | 081°21'57.98" |
| R28 | 384.137 | 2.074.403 | 30°02'22.27" | 081°21'58.21" |
| G29 | 385.022 | 2.071.991 | 30°01'58.42" | 081°21'48.05" |
| R30 | 384.745 | 2.071.398 | 30°01'52.55" | 081°21'51.18" |
| R32 | 385.395 | 2.069.913 | 30°01'37.87" | 081°21'43.73" |
| G33 | 386.180 | 2.069.648 | 30°01'35.27" | 081°21'34.79" |
| G35 | 389.573 | 2.067.497 | 30°01'14.08" | 081°20'56.12" |




| SURVEY LEGEND | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

GRAPHIC SCALE

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Dwg. No. DACW17-XX-X-XXXX
Datum: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXIX

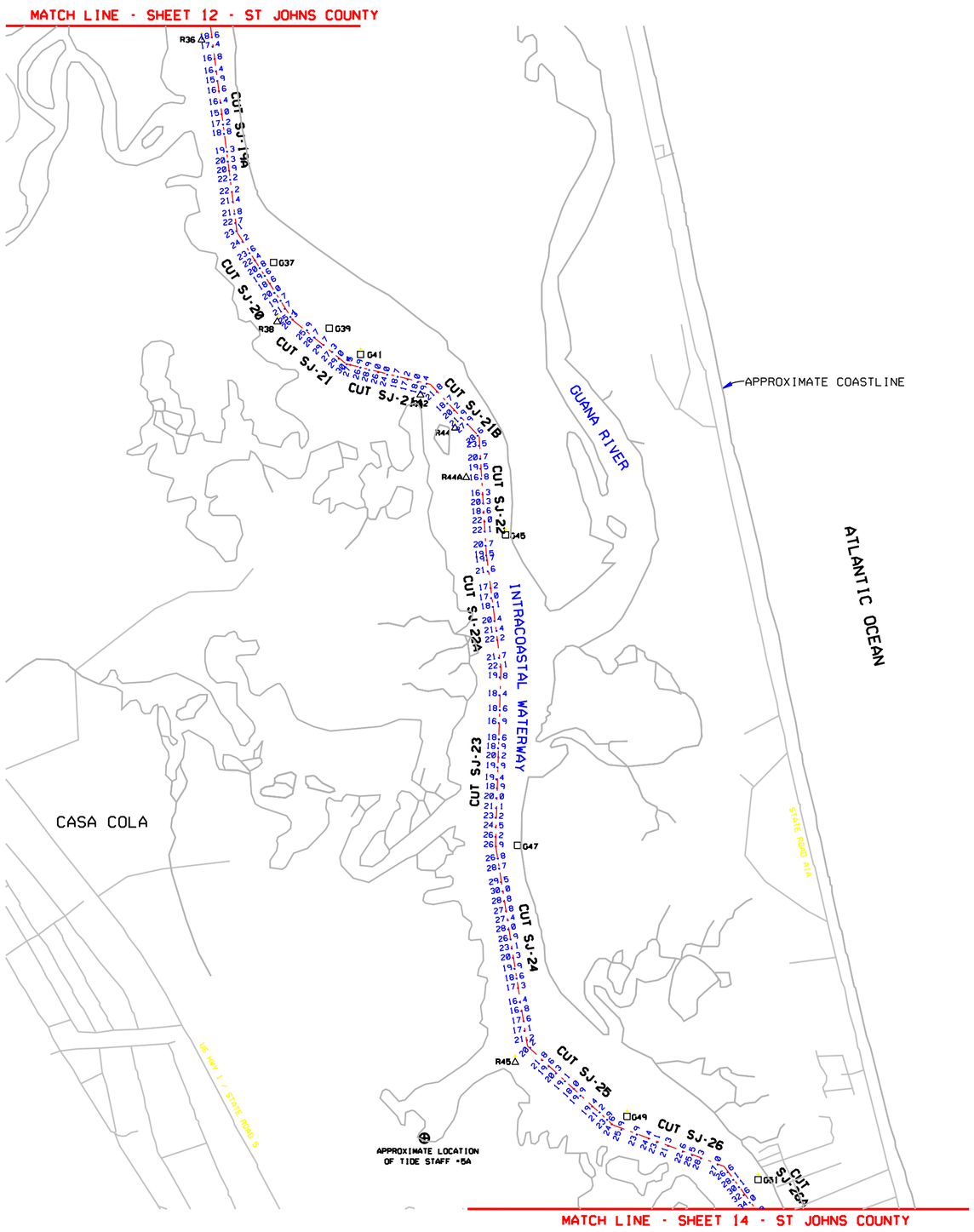
Designed by: XXX
Dwn by: PES
Ckd by: GRW
Date: JUN 2004
D.O.FILE NO. XXXX-XX.XXXX

File name: F021DP5B.DGN
Reference files: S1-DGN.DGN, B90098.DGN, S1-DCL.DGN, F021C5W0C.DGN, INDEX1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
CUT SJ-12 THRU SJ-17 AND "UNCONTROLLED" P.J. 3
PLAN

DRAWING NO.
12/89

SHEET 12 OF 89

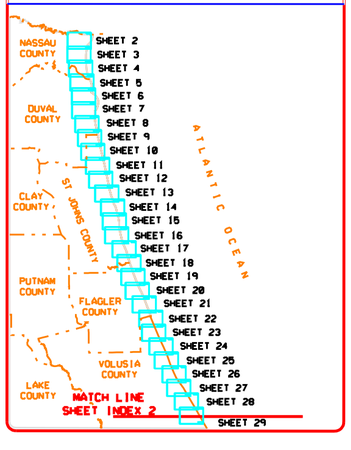



| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R36 | 389.692 | 2.066.020 | 30°00'59.46" | 081°20'54.72" |
| G37 | 391.093 | 2.061.695 | 30°00'16.69" | 081°20'38.63" |
| R38 | 391.162 | 2.060.540 | 30°00'05.26" | 081°20'37.81" |
| G39 | 392.174 | 2.060.414 | 30°00'04.04" | 081°20'26.29" |
| G41 | 392.783 | 2.059.987 | 29°59'59.84" | 081°20'19.95" |
| R42 | 393.947 | 2.059.118 | 29°59'51.26" | 081°20'06.89" |
| R44 | 394.620 | 2.058.475 | 29°59'44.91" | 081°19'58.41" |
| R44A | 394.837 | 2.057.514 | 29°59'35.41" | 081°19'55.91" |
| G45 | 395.602 | 2.056.397 | 29°59'24.37" | 081°19'47.18" |
| G47 | 395.836 | 2.050.363 | 29°58'24.65" | 081°19'44.32" |
| R48 | 395.790 | 2.046.144 | 29°57'42.88" | 081°19'44.70" |
| R45 | 395.792 | 2.046.143 | 29°57'42.87" | 081°19'44.68" |
| G49 | 397.966 | 2.045.093 | 29°57'32.54" | 081°19'19.93" |
| G51 | 400.513 | 2.043.865 | 29°57'20.45" | 081°18'50.94" |

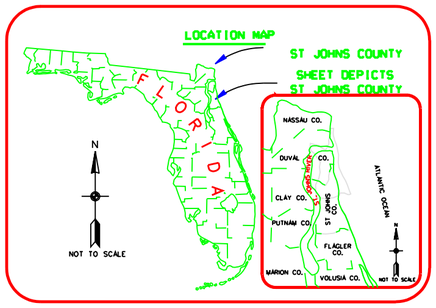
**TIDE STAFF TABULATION**

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 5A | USC&GS "STAUPORT 1988" | 5.77 |
| | USC&GS "STAUPORT AZMK 1988" | 6.75 |

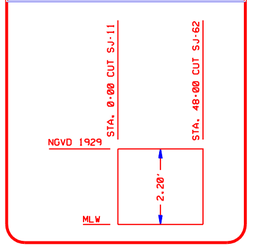
**SHEET INDEX 1**




**LOCATION MAP**




**RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER**




**SURVEY LEGEND**

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| △ | RED NAVIGATIONAL AID |
| □ | GREEN NAVIGATIONAL AID |
| △ | RED NAVIGATIONAL AID WITH BEACON |
| □ | GREEN NAVIGATIONAL AID WITH BEACON |

N

**GRAPHIC SCALE**

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Proj. No. DACW17-XX-X-XXXX
Design XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXXX

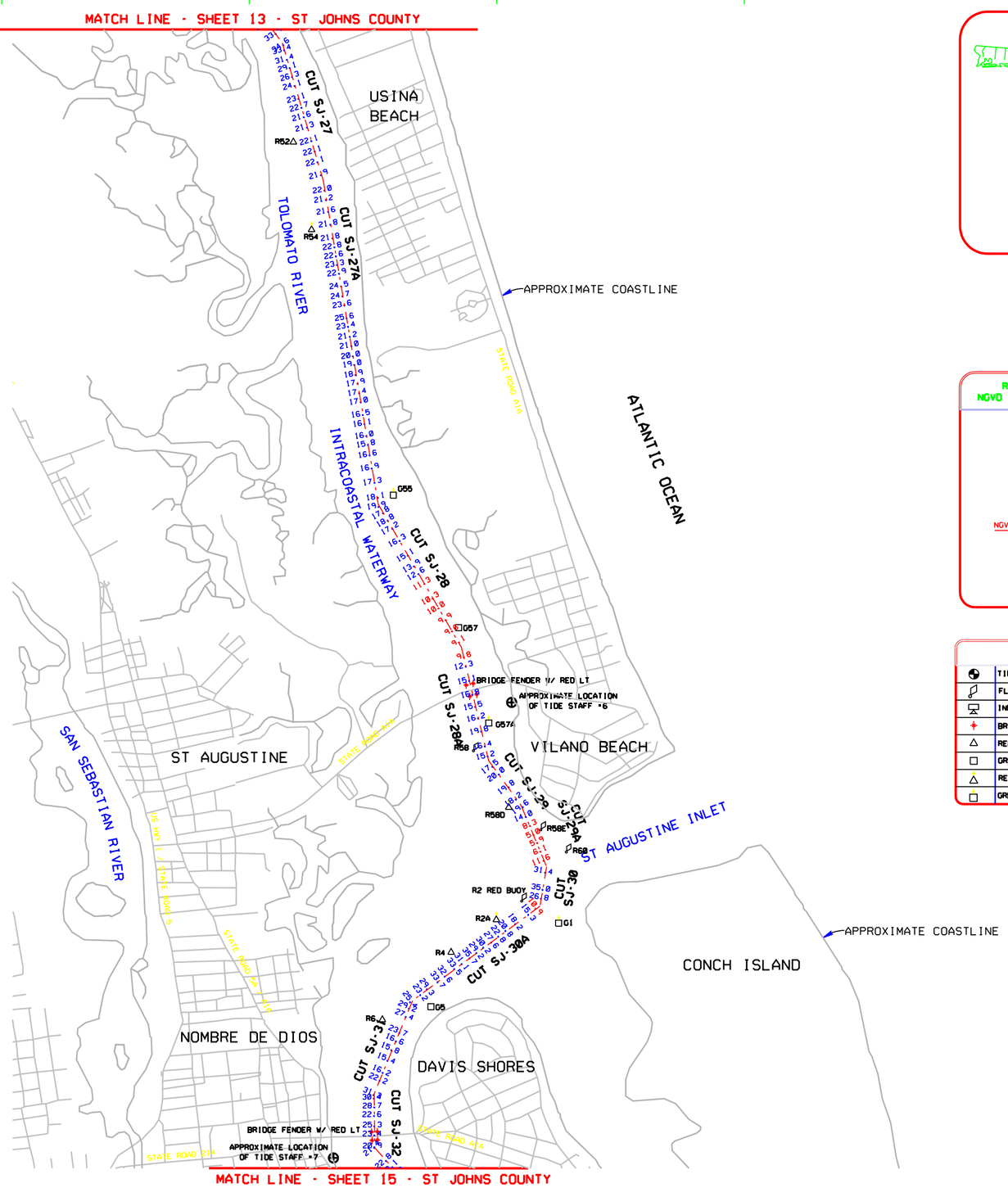
Designed by XXX
Dwn by PCS
Ckd by WRW
Date JUN 2004
D.O.FILE NO. XXXX-XX.XXXX

File name F02TSH15.DGN
Reference files ST-CRSS.DGN B90095.DGN ST-DCL.DGN F02TSJ5HOC.DGN INDEX.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
"UNCONTROLLED" P.L.4 THRU P.L. 14
PLAN

DRAWING NO.
13/89

SHEET 13 OF 89

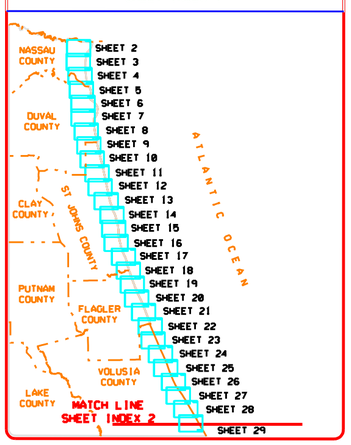



| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R52 | 400.889 | 2.041.017 | 29°56'52.27" | 081°18'46.58" |
| R54 | 401.259 | 2.039.247 | 29°56'34.75" | 081°18'42.32" |
| G55 | 402.909 | 2.033.885 | 29°55'41.72" | 081°18'23.40" |
| G57 | 404.227 | 2.031.211 | 29°55'15.28" | 081°18'08.34" |
| G57A | 404.837 | 2.029.285 | 29°54'56.23" | 081°18'01.35" |
| R58 | 404.529 | 2.028.724 | 29°54'50.67" | 081°18'04.84" |
| R58D | 405.241 | 2.027.579 | 29°54'39.35" | 081°17'56.71" |
| R58E | 405.889 | 2.027.128 | 29°54'34.90" | 081°17'49.34" |
| R60 | 406.403 | 2.026.679 | 29°54'30.47" | 081°17'43.48" |
| R2 | 405.504 | 2.025.688 | 29°54'20.64" | 081°17'53.67" |
| R2A | 404.990 | 2.025.310 | 29°54'16.88" | 081°17'59.50" |
| G1 | 406.248 | 2.025.243 | 29°54'16.25" | 081°17'45.20" |
| R4 | 404.076 | 2.024.652 | 29°54'10.34" | 081°18'09.86" |
| G5 | 403.668 | 2.023.552 | 29°53'59.44" | 081°18'14.47" |
| R6 | 402.688 | 2.023.290 | 29°53'56.82" | 081°18'25.59" |

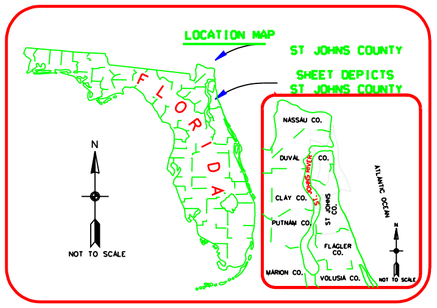
**TIDE STAFF TABULATION**

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 6 | DNR "7879 A39 RM NO 1" | 8.04 |
| | USC&GS "M 322 1970" | 9.54 |
| TIDE STAFF NO. 7 | USBM CHISELED SQUARE | 6.38 |
| | EAGLE HEAD ON BRONZE STATUE | 12.34 |

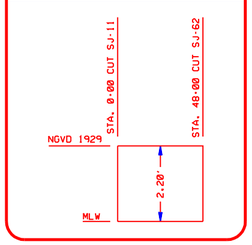
**SHEET INDEX 1**




**LOCATION MAP**




**RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER**




**SURVEY LEGEND**

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

**GRAPHIC SCALE**

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Inv. No. DACW17-XX-X-XXXX
Dulsor XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX

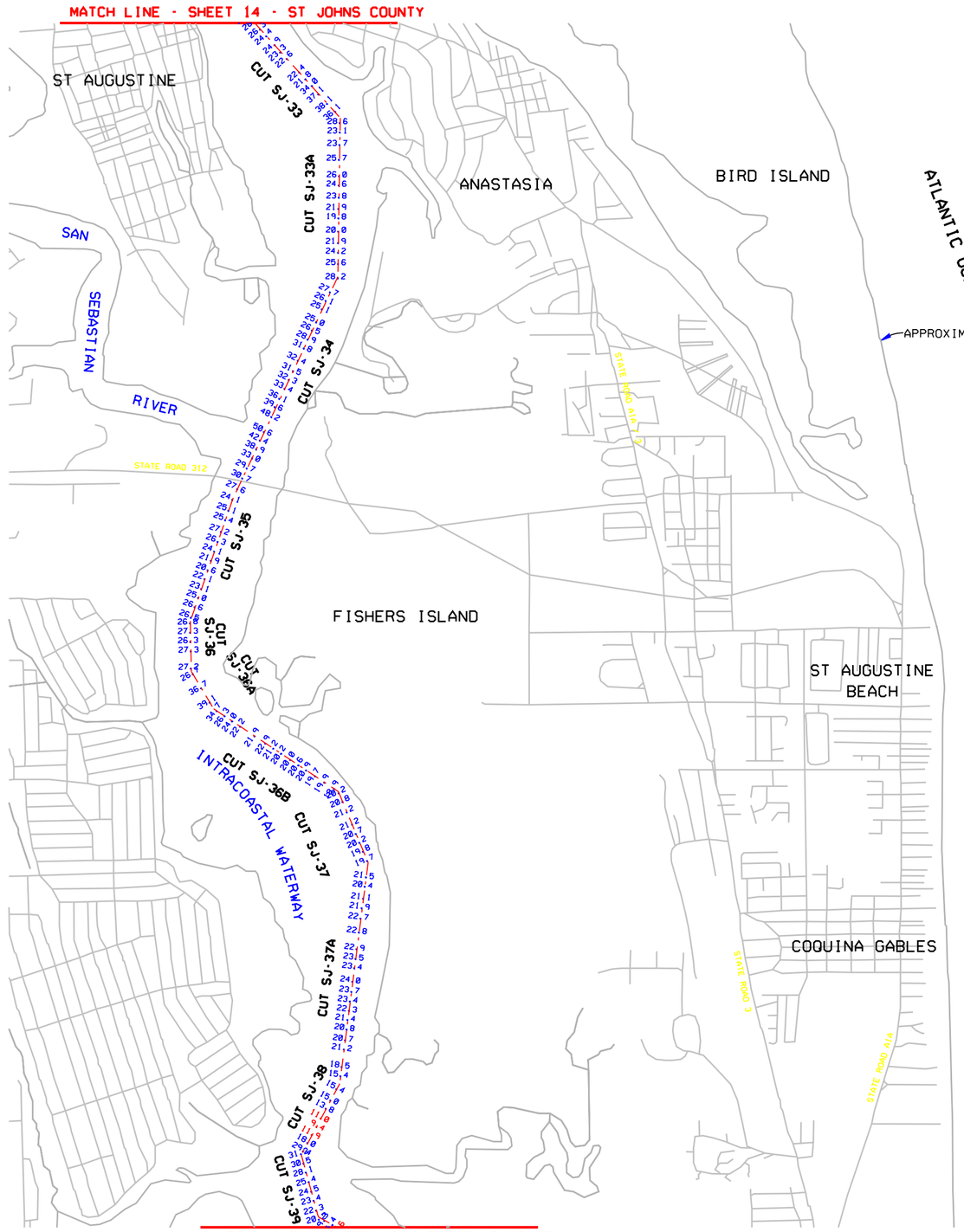
Designed by: XXX
Dwn by: PKS
Ckd by: WNJ
Date: JUN 2004
D.O.FILE NO. XXXX-XX-XXXX

File name: F02FSH14.DGN
Reference files: S1J06B5C.DGN S1J06B6C.DGN S1J06C.DGN F02F25.SHOC.DGN INDEX1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
"UNCONTROLLED" S.15 THRU P.L.25
PLAN

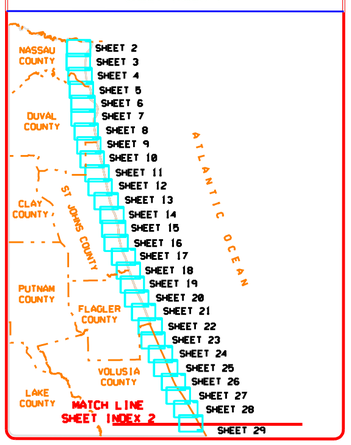
DRAWING NO.
14/89

SHEET 14 OF 89

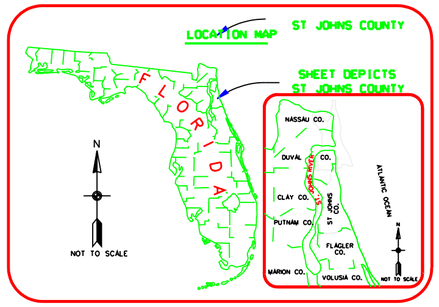



| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R10 | 404.102 | 2,018.438 | 29°53'08.83" | 081°18'09.38" |
| G11 | 404.922 | 2,017.447 | 29°52'59.04" | 081°18'00.04" |
| R12 | 404.064 | 2,015.686 | 29°52'41.58" | 081°18'09.73" |
| G15 | 402.142 | 2,009.331 | 29°51'38.62" | 081°18'31.37" |
| R16 | 401.338 | 2,008.124 | 29°51'26.65" | 081°18'40.46" |
| G17 | 402.080 | 2,007.888 | 29°51'24.34" | 081°18'32.03" |
| R18 | 403.144 | 2,006.358 | 29°51'09.22" | 081°18'19.90" |
| R20 | 404.198 | 2,005.525 | 29°51'01.00" | 081°18'07.91" |
| G21 | 405.086 | 2,004.837 | 29°50'54.21" | 081°17'57.80" |
| R22 | 404.641 | 2,004.443 | 29°50'50.30" | 081°18'02.84" |
| R24 | 404.689 | 2,003.132 | 29°50'37.32" | 081°18'02.26" |
| R26 | 403.563 | 1,999.134 | 29°49'57.71" | 081°18'14.92" |
| G27 | 404.236 | 1,998.651 | 29°49'52.95" | 081°18'07.27" |

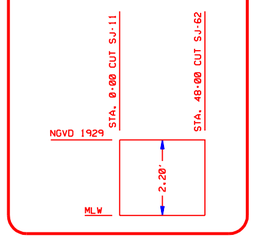
SHEET INDEX 1




LOCATION MAP




RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER




SURVEY LEGEND

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 97-CXXX.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Inv. No. DACW17-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: XXX
Dwn by: PES
Ckd by: WMJ

Date: JUN 2004
D.O.FILE NO. XXXX-XX.XXX

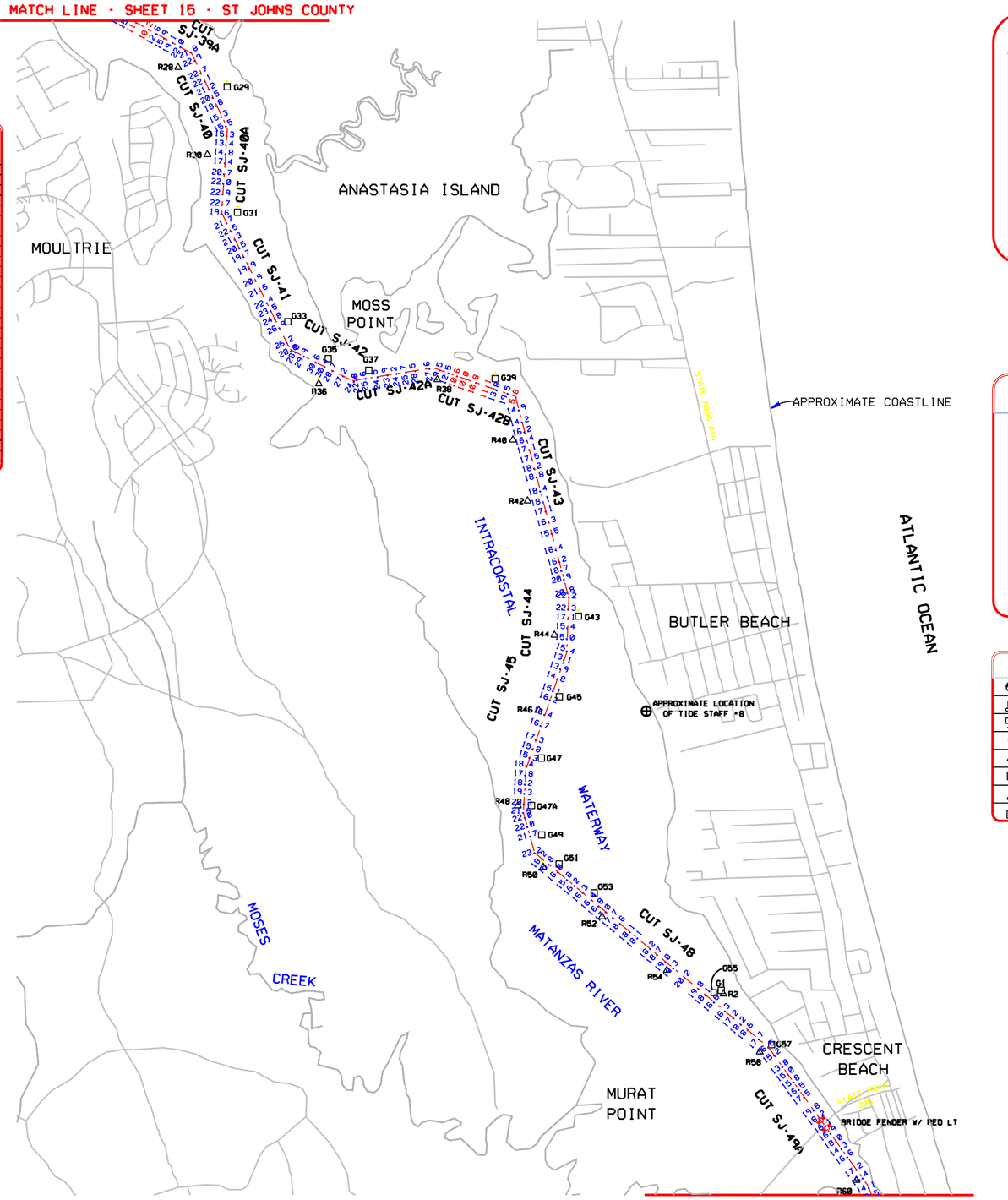
File name: F02FSH15.DGN
Reference files: S1C058SC.DGN S1B000SC.DGN S1J0CL.DGN F02FS15H0C.DGN MOEX1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
"UNCONTROLLED" S.J.26 THRU P.J.36
PLAN

DRAWING NO.
15/89

SHEET 15 OF 89

MATCH LINE - SHEET 15 - ST JOHNS COUNTY



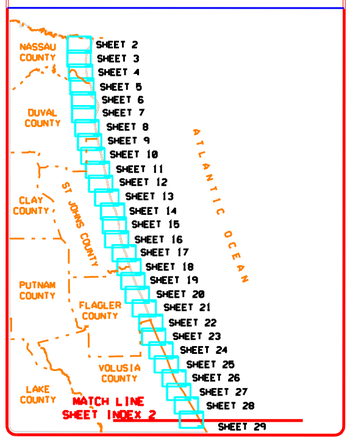

MATCH LINE - SHEET 17 - ST JOHNS COUNTY

| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R28 | 405.359 | 1.996.376 | 29°49'30.46" | 081°17'54.45" |
| G29 | 406.321 | 1.995.998 | 29°49'26.74" | 081°17'43.52" |
| R30 | 405.933 | 1.994.668 | 29°49'13.56" | 081°17'47.89" |
| G31 | 406.523 | 1.993.539 | 29°49'02.40" | 081°17'41.16" |
| G33 | 407.508 | 1.991.397 | 29°48'41.22" | 081°17'29.91" |
| G35 | 408.301 | 1.990.675 | 29°48'34.09" | 081°17'20.89" |
| G37 | 409.095 | 1.990.445 | 29°48'31.84" | 081°17'11.87" |
| G39 | 411.573 | 1.990.281 | 29°48'30.27" | 081°16'43.74" |
| R38 | 410.438 | 1.990.261 | 29°48'30.05" | 081°16'56.62" |
| R36 | 408.116 | 1.990.180 | 29°48'29.19" | 081°17'22.98" |
| R40 | 411.917 | 1.989.080 | 29°48'18.39" | 081°16'39.80" |
| R42 | 412.205 | 1.987.888 | 29°48'06.60" | 081°16'36.50" |
| G43 | 413.202 | 1.985.630 | 29°47'44.27" | 081°16'25.12" |
| R44 | 412.731 | 1.985.258 | 29°47'40.57" | 081°16'30.46" |
| G45 | 412.828 | 1.984.050 | 29°47'28.62" | 081°16'29.32" |
| R46 | 412.424 | 1.983.786 | 29°47'25.99" | 081°16'33.90" |
| G47 | 412.476 | 1.982.850 | 29°47'16.73" | 081°16'33.29" |
| G47A | 412.284 | 1.981.922 | 29°47'07.54" | 081°16'35.44" |
| R48 | 412.017 | 1.981.916 | 29°47'07.47" | 081°16'38.47" |
| G49 | 412.484 | 1.981.345 | 29°47'01.83" | 081°16'33.15" |
| G51 | 412.824 | 1.980.774 | 29°46'56.19" | 081°16'29.28" |
| R50 | 412.512 | 1.980.715 | 29°46'55.59" | 081°16'32.82" |
| G53 | 413.512 | 1.980.211 | 29°46'50.63" | 081°16'21.46" |
| R52 | 413.664 | 1.979.743 | 29°46'46.00" | 081°16'19.72" |
| R54 | 414.936 | 1.978.694 | 29°46'35.64" | 081°16'05.26" |
| G1 | 416.000 | 1.978.299 | 29°46'31.76" | 081°15'53.18" |
| G55 | 415.861 | 1.978.253 | 29°46'31.30" | 081°15'54.75" |
| R2 | 416.044 | 1.978.230 | 29°46'31.08" | 081°15'52.67" |
| G57 | 416.988 | 1.977.236 | 29°46'21.26" | 081°15'41.94" |
| R58 | 416.754 | 1.977.094 | 29°46'19.84" | 081°15'44.59" |
| R60 | 418.648 | 1.974.578 | 29°45'54.98" | 081°15'23.03" |

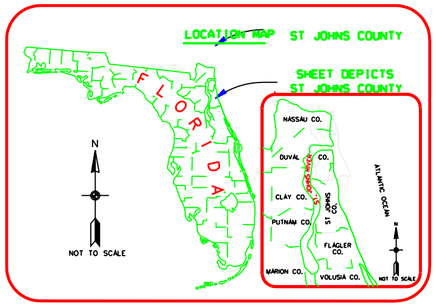
TIDE STAFF TABULATION

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 8 | NOS '0623 B 1978' | 4.88 |
| | NOS '0623 C 1978' | 5.26 |

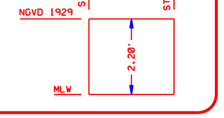
SHEET INDEX 1




LOCATION MAP ST JOHNS COUNTY




RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER




SURVEY LEGEND

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

GRAPHIC SCALE

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

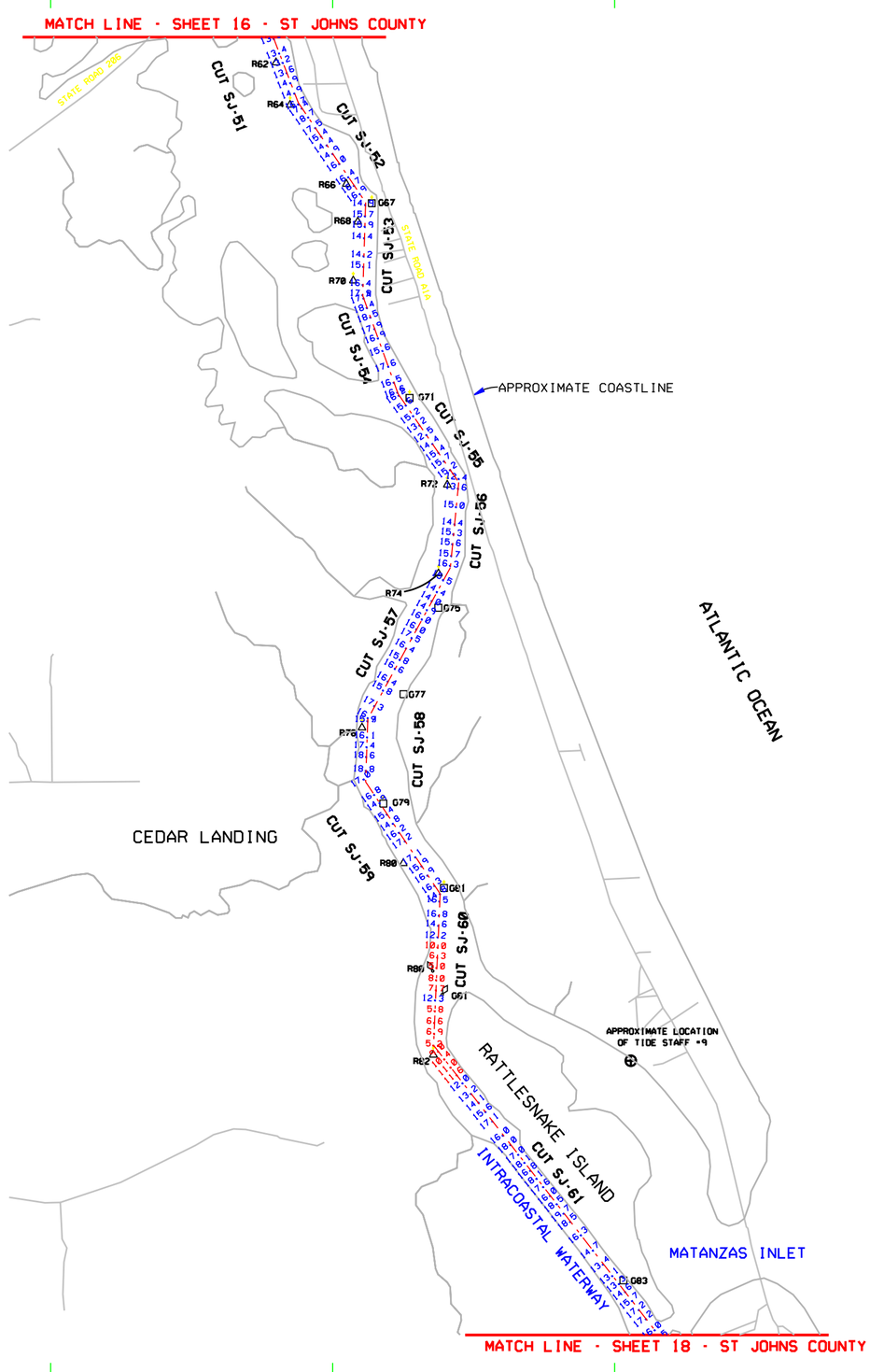
Proj. No. DACW17-XX-X-XXXX
Dwg. No. XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
Designed by: XXX
Dwn by: PCS
Ckd by: BRW
Date: JUN 2004
D.O.FILE NO. XXXX-XX.XXXX

File name: F0215HSC.DGN
Reference files: S15HSC.DGN BRIDGE.DGN STJOCL.DGN F0215JSHOC.DGN MOCK1.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
"UNCONTROLLED" P.I. 57 THRU CUT SJ-51
PLAN

DRAWING NO.
16/89

SHEET 16 OF 89

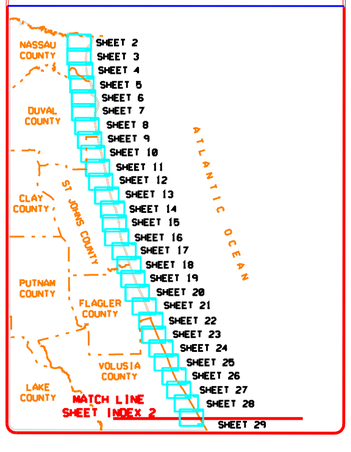



| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| R62 | 418.994 | 1,973.842 | 29°45'47.70" | 081°15'19.09" |
| R64 | 419.246 | 1,973.091 | 29°45'40.27" | 081°15'16.21" |
| R66 | 420.243 | 1,971.690 | 29°45'26.42" | 081°15'04.87" |
| G67 | 420.693 | 1,971.350 | 29°45'23.07" | 081°14'59.75" |
| R68 | 420.445 | 1,971.021 | 29°45'19.80" | 081°15'02.56" |
| R70 | 420.366 | 1,969.977 | 29°45'09.47" | 081°15'03.43" |
| G71 | 421.364 | 1,967.898 | 29°44'48.91" | 081°14'52.05" |
| R72 | 422.033 | 1,966.358 | 29°44'33.68" | 081°14'44.43" |
| R74 | 421.876 | 1,964.787 | 29°44'18.12" | 081°14'46.17" |
| G75 | 421.875 | 1,964.180 | 29°44'12.11" | 081°14'46.17" |
| G77 | 421.256 | 1,962.648 | 29°43'56.93" | 081°14'53.15" |
| R78 | 420.521 | 1,962.055 | 29°43'51.04" | 081°15'01.47" |
| G79 | 420.898 | 1,960.711 | 29°43'37.75" | 081°14'57.17" |
| R80 | 421.254 | 1,959.651 | 29°43'27.26" | 081°14'53.10" |
| G81 | 421.975 | 1,959.214 | 29°43'22.95" | 081°14'44.91" |
| R80 | 421.775 | 1,957.743 | 29°43'08.38" | 081°14'47.15" |
| G81 | 421.943 | 1,957.324 | 29°43'04.24" | 081°14'45.23" |
| R82 | 421.785 | 1,956.257 | 29°42'53.67" | 081°14'47.00" |
| G83 | 425.157 | 1,952.260 | 29°42'14.17" | 081°14'08.66" |

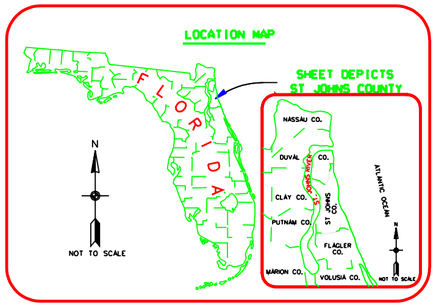
**TIDE STAFF TABULATION**

| TIDE STAFF DESIGNATION | REFERENCE MONUMENT DESCRIPTION | EL FEET (NGVD) |
|---|---|---|
| TIDE STAFF NO. 9 | NOS "1 1974" | 11.71 |
| | NOS "2 1974" | 13.95 |

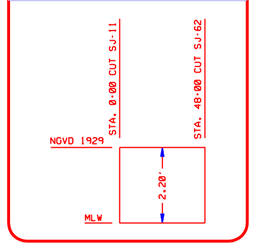
**SHEET INDEX 1**




**LOCATION MAP**




**RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER**




**SURVEY LEGEND**

| | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |

N

**GRAPHIC SCALE**

1000' 0 1000' 2000'

NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Dwg. No. DACW17-XX-X-XXXX
Datum XX XXX XXXX
Scale AS SHOWN
Plot date XX XX XXXX
Plot scale XXXX

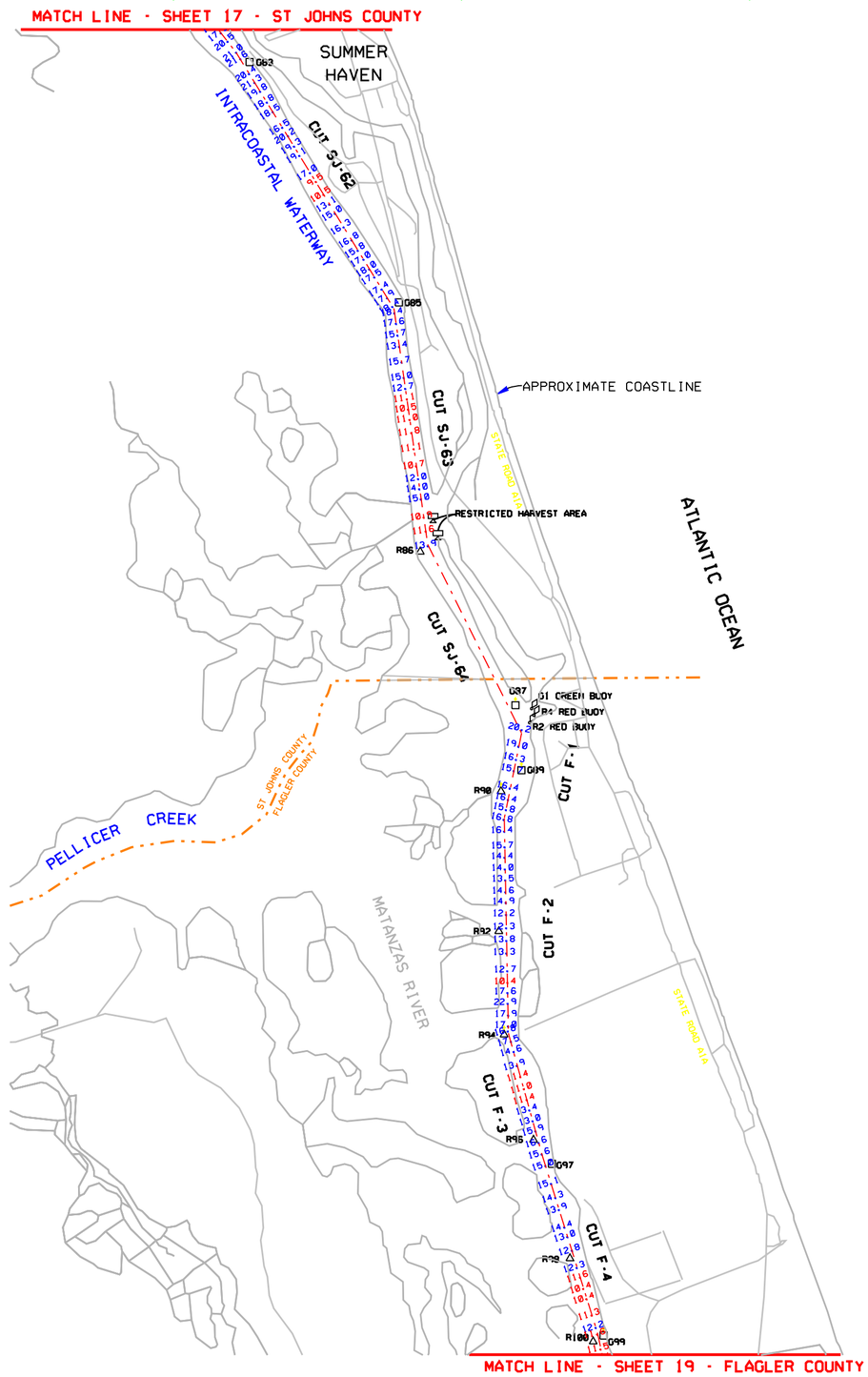
Designed by XXX
Dwn by PCS
Ckd by WMW
Date JUN 2004
D.O.FILE NO. XXXX-XX.XXXX

File name F02TSH17.DGN
Reference files ST.DRV.DGN SR0098.DGN ST.GCL.DGN F02TSJSHDC.DGN INDEX.DGN

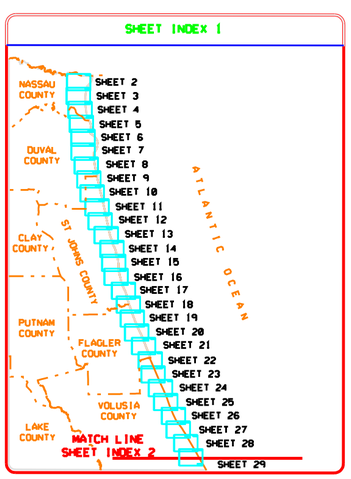
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS COUNTY
CUT SJ-51 THRU CUT SJ-61
PLAN

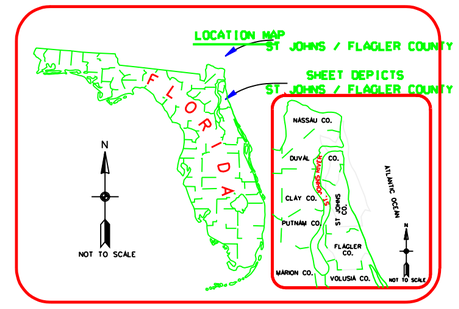
DRAWING NO.
17/89

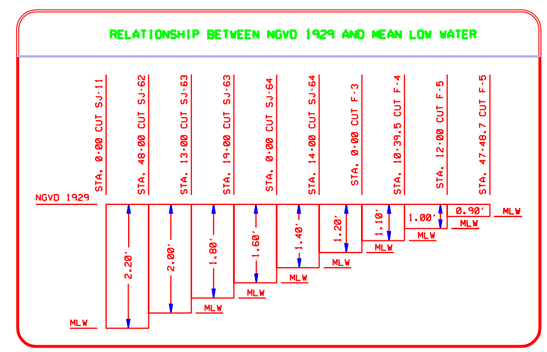
SHEET 17 OF 89



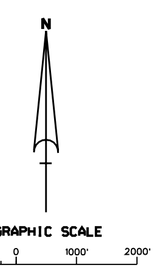

| AID TO NAVIGATION | PLANE COORDINATES IN FEET NAD 27 (X) | (Y) | LATITUDE NAD 27 | LONGITUDE NAD 27 |
|---|---|---|---|---|
| G83 | 426.320 | 1,950.730 | 29°41'59.05" | 081°13'55.44" |
| G85 | 428.913 | 1,946.559 | 29°41'17.81" | 081°13'25.95" |
| R86 | 429.282 | 1,942.230 | 29°40'34.96" | 081°13'21.67" |
| G87 | 430.936 | 1,939.569 | 29°40'08.64" | 081°13'02.86" |
| G1 | 431.216 | 1,939.509 | 29°40'08.06" | 081°12'59.69" |
| R4 | 431.254 | 1,939.396 | 29°40'06.94" | 081°12'59.26" |
| R2 | 431.182 | 1,939.266 | 29°40'05.65" | 081°13'00.07" |
| G89 | 431.039 | 1,938.441 | 29°39'57.48" | 081°13'01.67" |
| R90 | 430.685 | 1,938.075 | 29°39'53.85" | 081°13'05.68" |
| R92 | 430.647 | 1,935.646 | 29°39'29.80" | 081°13'06.06" |
| R94 | 430.739 | 1,933.851 | 29°39'12.03" | 081°13'04.98" |
| R96 | 431.249 | 1,932.026 | 29°38'53.97" | 081°12'59.16" |
| G97 | 431.570 | 1,931.611 | 29°38'49.87" | 081°12'55.51" |
| R98 | 431.883 | 1,929.968 | 29°38'33.61" | 081°12'51.93" |
| G99 | 432.466 | 1,928.632 | 29°38'20.40" | 081°12'45.29" |
| R100 | 432.285 | 1,928.526 | 29°38'19.34" | 081°12'47.34" |




| SURVEY LEGEND | |
|---|---|
| | TIDE STAFF |
| | FLOATING BUOY |
| | INFORMATION SIGN |
| | BRIDGE FENDER |
| | RED NAVIGATIONAL AID |
| | GREEN NAVIGATIONAL AID |
| | RED NAVIGATIONAL AID WITH BEACON |
| | GREEN NAVIGATIONAL AID WITH BEACON |




NOTES:
1. REFER TO SURVEY NO. 04-021.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

| No. | Symbol | Zone | Description | Approved |
|---|---|---|---|---|

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

Inv. No. DACW17-XX-X-XXXX
Dataset XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
Designed by: XXX
Dwn by: PCS
Ckd by: WRM
Date: JUN 2004
D.O.FILE NO. XXX-XX.XXX

File name: F07SHIELDON
Reference files: S3SHIELDON FLAGASGLDON F07ILSHOLDON FLAGLOLDON STJOCLDON NASCKLDON F02FFLSHOLDON

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PROJECT CONDITION SURVEY FY04
7, 10 & 12-FOOT PROJECT
ST. JOHNS AND FLAGLER COUNTY
CUT SJ-61 THRU CUT F-5
PLAN

DRAWING NO.
18/89

SHEET 18 OF 89