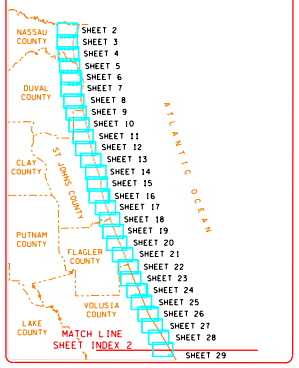
MATCH LINE - SHEET 21 - FLAGLER COUNTY

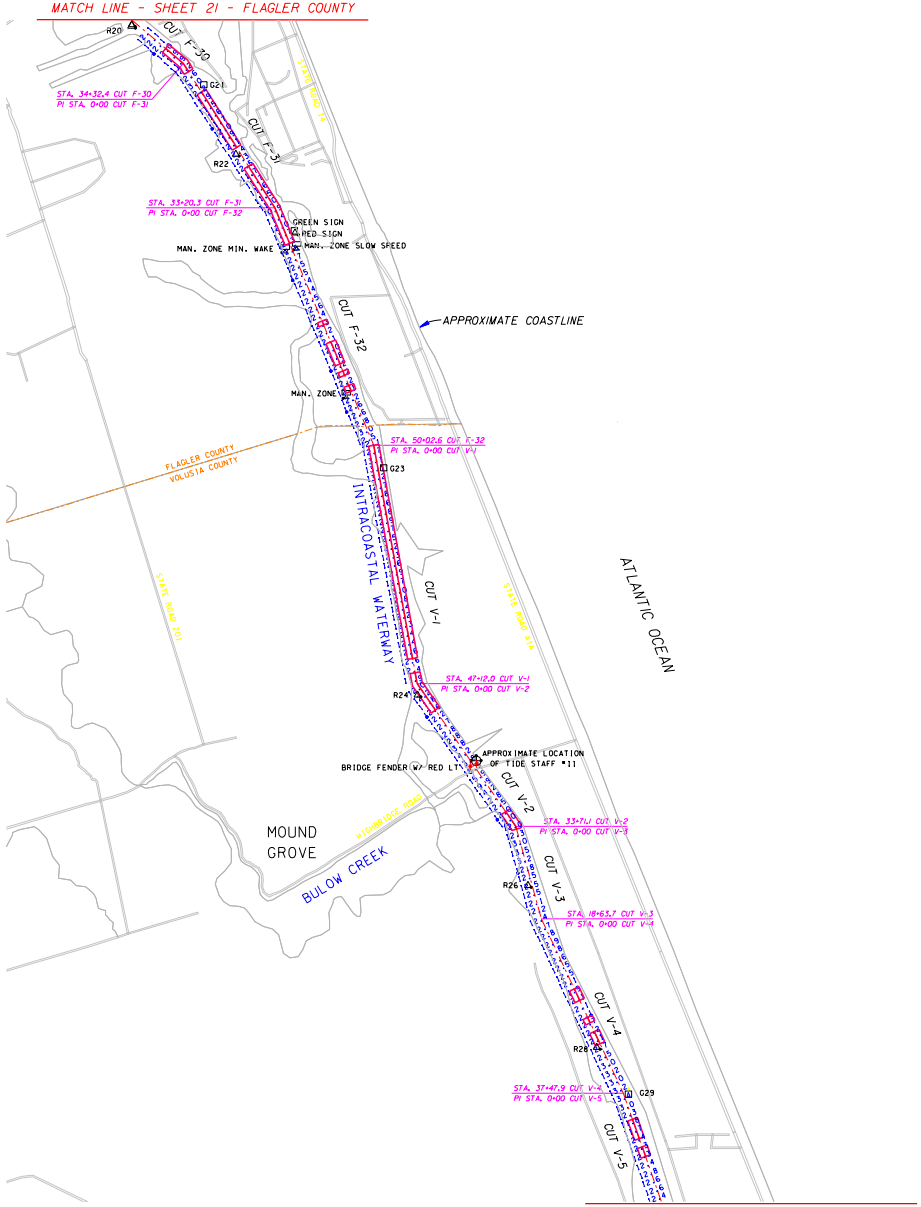
AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R20	461,089	1,859,181	29°26'53.23"	081°07'20.11"
G21	462,490	1,858,012	29°26'41.67"	081°07'04.25"
R22	463,110	1,856,662	29°26'28.31"	081°06'57.22"
G23	465,987	1,850,565	29°25'27.97"	081°06'24.62"
R24	466,647	1,846,149	29°24'44.26"	081°06'17.11"
R26	468,790	1,842,442	29°24'07.58"	081°05'52.85"
R28	470,129	1,839,298	29°23'36.46"	081°05'37.68"
G29	470,747	1,838,386	29°23'27.44"	081°05'30.68"

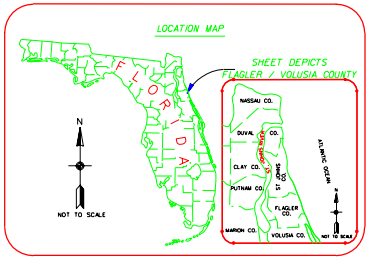
TIDE STAFF TABULATION

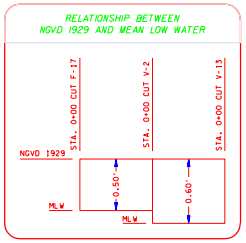
TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 11	USC&GS "N 319 1970"	19.33
	FLORIDA SRD "AB"	19.18

SHEET INDEX 1



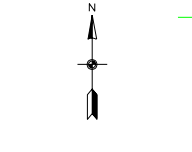






SURVEY LEGEND

	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. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Inv. No. DACW17-98-D-0004
Scale AS SHOWN
Plot scale
Plot date APRIL, 2000
D.O.FILE NO. 8-37-988

Designed by
Drawn by S.B.M.
Checked by K.C.J.

File name: 22SH314.DGN
Reference files: A314TB.DGN, FLAGBASE.DGN, A314SOL.DGN, FLAGLOC.DGN, VOLUBASE.DGN, VOLUCL.DGN, A3E1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
FLAGLER AND VOLUSIA COUNTY
CUT F-30 THRU CUT V-5
PLAN

DRAWING NO.

SHEET 22 OF 91

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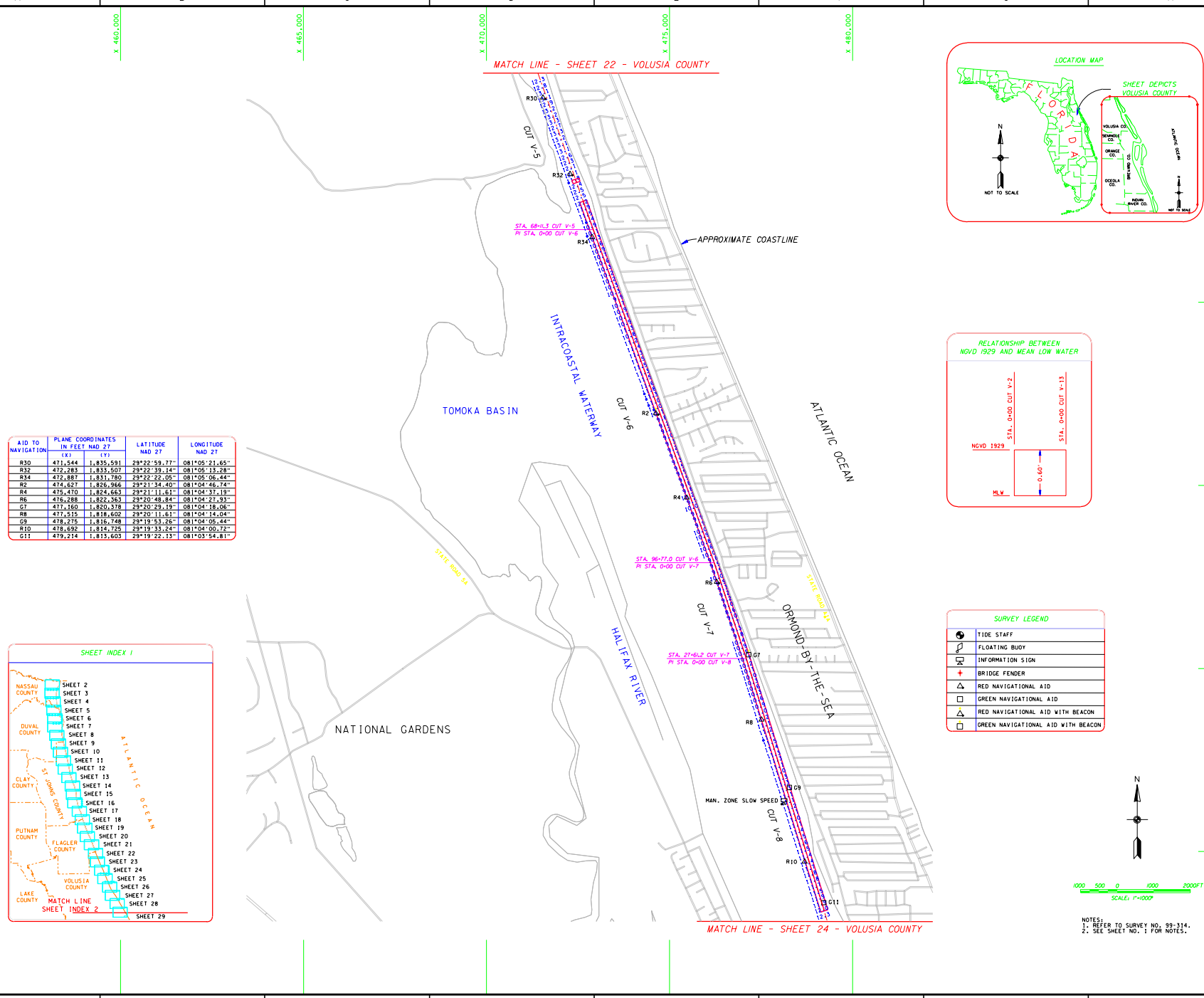

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R30	471,544	1,835,591	29°22'59.77"	081°05'21.65"
R32	472,283	1,833,507	29°22'39.14"	081°05'13.28"
R34	472,887	1,831,780	29°22'22.05"	081°05'06.44"
R2	474,627	1,826,966	29°21'34.40"	081°04'46.74"
R4	475,470	1,824,663	29°21'11.61"	081°04'37.19"
R6	476,288	1,822,363	29°20'48.84"	081°04'27.93"
G7	477,160	1,820,378	29°20'29.19"	081°04'18.06"
R8	477,515	1,818,602	29°20'11.61"	081°04'14.04"
G9	478,275	1,816,748	29°19'53.26"	081°04'05.44"
R10	478,692	1,814,725	29°19'33.24"	081°04'00.72"
G11	479,214	1,813,603	29°19'22.13"	081°03'54.81"

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. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Inv. No. DACW17-98-D-0004
Scale AS SHOWN
Drawn by K.C.J.
Checked by S.B.M.
Designed by
Dated APRIL, 2000
D.O.F.FILE NO. 8-37-988

File name: 0SCOVOLUSIA
Reference files: A314SLOG.DGN, VOLUBASE.DGN, A314SOLID.DGN, VOLUSIA.DGN, INDEX1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-5 THRU CUT V-8
PLAN

DRAWING NO.

SHEET 23 OF 91

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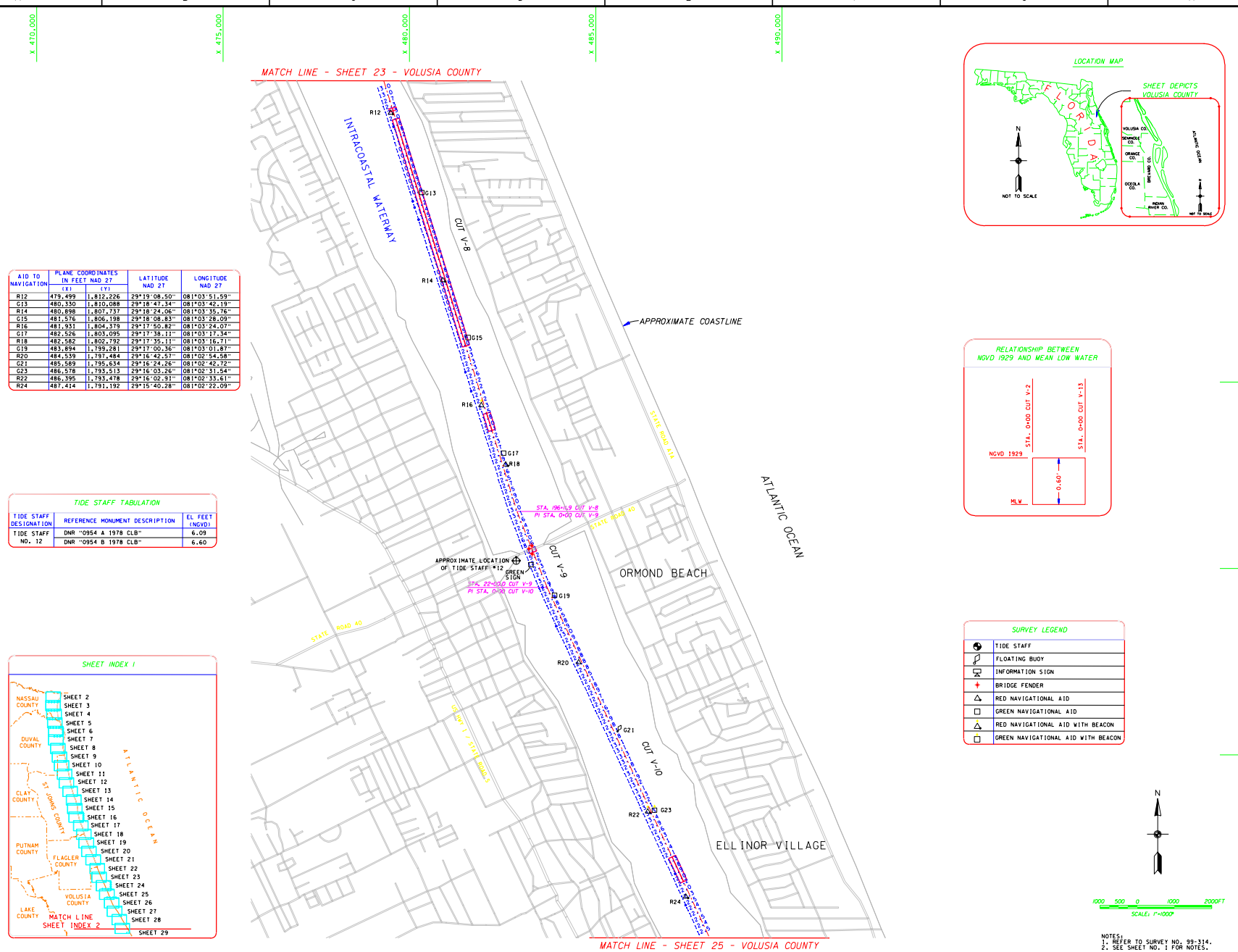

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R12	479,499	1,812,226	29°19'08.50"	081°03'51.59"
G13	480,330	1,810,088	29°18'47.34"	081°03'42.19"
R14	480,898	1,807,757	29°18'24.06"	081°03'35.76"
G15	481,576	1,806,198	29°18'08.83"	081°03'28.09"
R16	481,931	1,804,379	29°17'50.82"	081°03'24.07"
G17	482,526	1,803,095	29°17'38.11"	081°03'17.34"
R18	482,582	1,802,792	29°17'35.11"	081°03'16.71"
G19	483,894	1,799,281	29°17'00.36"	081°03'01.87"
R20	484,539	1,797,484	29°16'42.57"	081°02'54.58"
G21	485,589	1,795,634	29°16'24.26"	081°02'42.72"
G23	486,578	1,793,513	29°16'03.26"	081°02'31.54"
R22	486,395	1,793,478	29°16'02.91"	081°02'33.61"
R24	487,414	1,791,192	29°15'40.28"	081°02'22.09"

TIDE STAFF TABULATION

TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 12	DNR "0954 A 1978 CLB"	6.09
	DNR "0954 B 1978 CLB"	6.60

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

NOTES:
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2. SEE SHEET NO. 1 FOR NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Inv. No. DACW17-98-D-0004
Scale AS SHOWN
Plot scale
Plot date APRIL, 2000
D.O.F.FILE NO. 8-37-988

Designed by
Drawn by C.E.M.
Checked by K.C.J.

File name: A314SH24.DGN
Reference files: A314SH23.DGN, VOLUSIA.DGN, A314SH25.DGN, VOLUSIA.DGN, INDEX.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-8 THRU CUT V-10
PLAN

DRAWING NO.

SHEET 24 OF 91

No. | Symbol | Zone | Description | Approved

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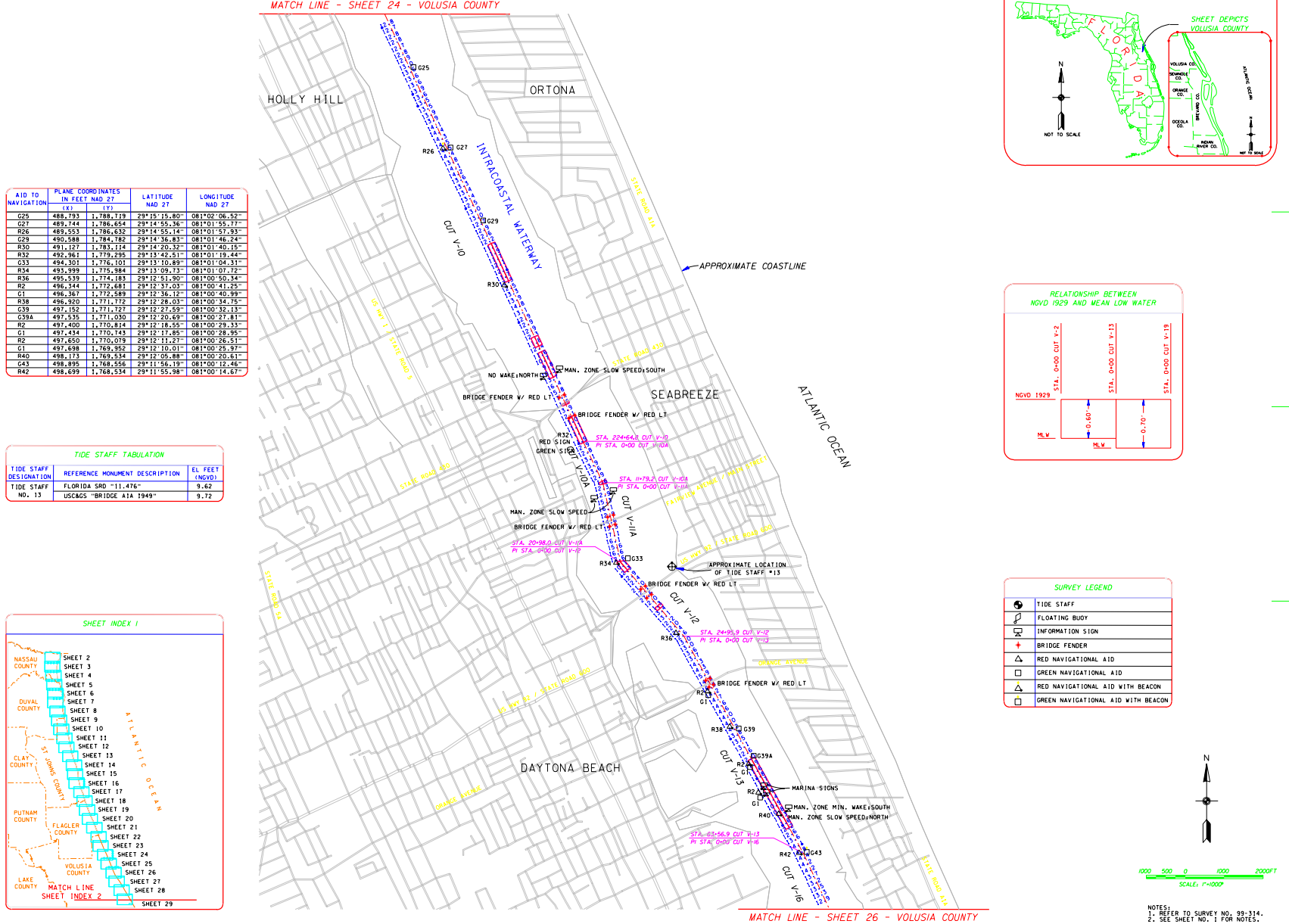


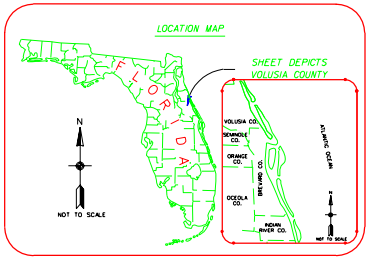
AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
G25	488,793	1,788,719	29°15'15.80"	081°02'06.52"
G27	489,744	1,786,654	29°14'55.36"	081°01'55.77"
R26	489,553	1,786,632	29°14'55.14"	081°01'57.93"
G29	490,588	1,784,782	29°14'36.83"	081°01'46.24"
R30	491,127	1,783,114	29°14'20.32"	081°01'40.15"
R32	492,961	1,779,295	29°13'42.51"	081°01'19.44"
G33	494,301	1,776,101	29°13'10.89"	081°01'04.31"
R34	493,999	1,775,984	29°13'09.73"	081°01'07.72"
R36	495,539	1,774,183	29°12'51.90"	081°00'50.34"
R2	496,344	1,772,681	29°12'37.03"	081°00'41.25"
G1	496,367	1,772,589	29°12'36.12"	081°00'40.99"
R38	496,920	1,771,772	29°12'28.03"	081°00'34.75"
G39	497,152	1,771,727	29°12'27.59"	081°00'32.13"
G39A	497,535	1,771,030	29°12'20.69"	081°00'27.81"
R2	497,400	1,770,814	29°12'18.55"	081°00'29.33"
G1	497,434	1,770,743	29°12'17.85"	081°00'28.95"
R2	497,650	1,770,079	29°12'11.27"	081°00'26.51"
G1	497,698	1,769,952	29°12'10.01"	081°00'25.97"
R40	498,173	1,769,534	29°12'05.88"	081°00'20.61"
G43	498,895	1,768,556	29°11'56.19"	081°00'12.46"
R42	498,699	1,768,534	29°11'55.98"	081°00'14.67"

TIDE STAFF TABULATION

TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 13	FLORIDA SRD "11.476"	9.62
	USC&GS "BRIDGE A1A 1949"	9.72

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

NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Approved | Description | Date | Symbol | No.

Des. No. CACW17-98-D-0004
Scale AS SHOWN
Plot Scale
Plot date
Designed by
Drawn by K.C.J.
Checked by
Dated APRIL, 2000
D.O.F.ILE NO. 8-37-988

File name: VOLUSIA\INDEX
Reference files: A314SH.DGN, VOLUBASE.DGN, A314SLOG.DGN, VOLUSIA.DGN, INDEX.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-10 THRU CUT V-16
PLAN

DRAWING NO.

SHEET 25 OF 91

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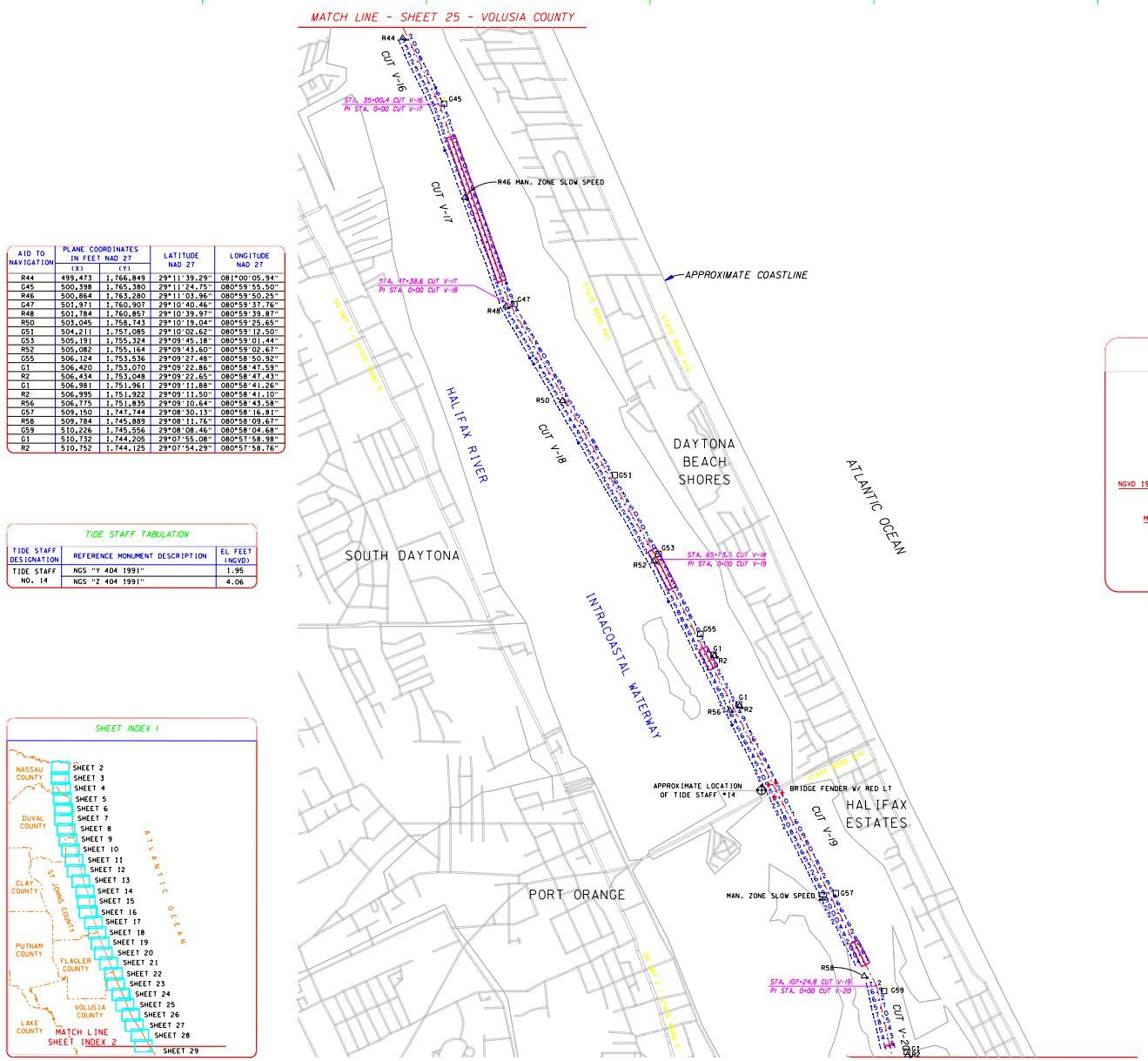


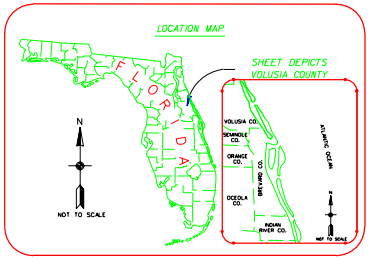
AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R44	499,473	1,766,849	29°11'39.29"	081°00'05.94"
G45	500,398	1,765,380	29°11'24.75"	080°59'55.50"
R46	500,864	1,763,280	29°11'03.96"	080°59'50.25"
G47	501,371	1,760,907	29°10'40.46"	080°59'37.76"
R48	501,784	1,760,857	29°10'39.97"	080°59'39.87"
R50	503,045	1,758,743	29°10'19.04"	080°59'25.65"
G51	504,211	1,757,085	29°10'02.62"	080°59'12.50"
G53	505,191	1,755,324	29°09'45.18"	080°59'01.44"
R52	505,082	1,755,164	29°09'43.60"	080°59'02.67"
G55	506,124	1,753,536	29°09'27.48"	080°58'50.92"
G1	506,420	1,753,070	29°09'22.86"	080°58'47.59"
R2	506,434	1,753,048	29°09'22.65"	080°58'47.43"
G1	506,981	1,751,961	29°09'11.88"	080°58'41.26"
R2	506,995	1,751,922	29°09'11.50"	080°58'41.10"
R56	506,175	1,751,835	29°09'10.64"	080°58'43.58"
G57	509,150	1,747,744	29°08'30.13"	080°58'16.81"
R58	509,784	1,745,889	29°08'11.76"	080°58'09.67"
G59	510,226	1,745,556	29°08'08.46"	080°58'04.68"
G1	510,732	1,744,205	29°07'55.08"	080°57'58.98"
R2	510,752	1,744,125	29°07'54.29"	080°57'58.76"

TIDE STAFF TABULATION

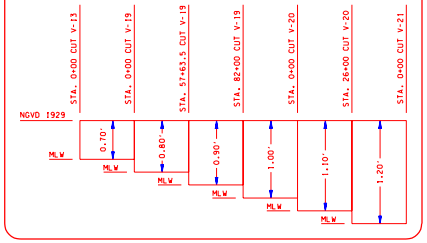
TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 14	NGS "Y 404 1991"	1.95
	NGS "Z 404 1991"	4.06

SHEET INDEX 1

LOCATION MAP

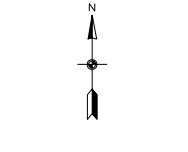


RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOW WATER



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



NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Proj. No. DACW17-98-D-0004
Scales AS SHOWN
Plot date
Designed by
Drawn by C.S.M.
Checked by K.C.J.
Dated APRIL, 2000
D.O.F.FILE NO. 8-37-988

File name: 314SH26.DGN
Reference files: A314TB.DGN, VOLUBASE.DGN, A314SL01.DGN, VOLUCL.DGN, INDEX1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-16 THRU CUT V-20
PLAN

DRAWING NO.

SHEET 26 OF 91

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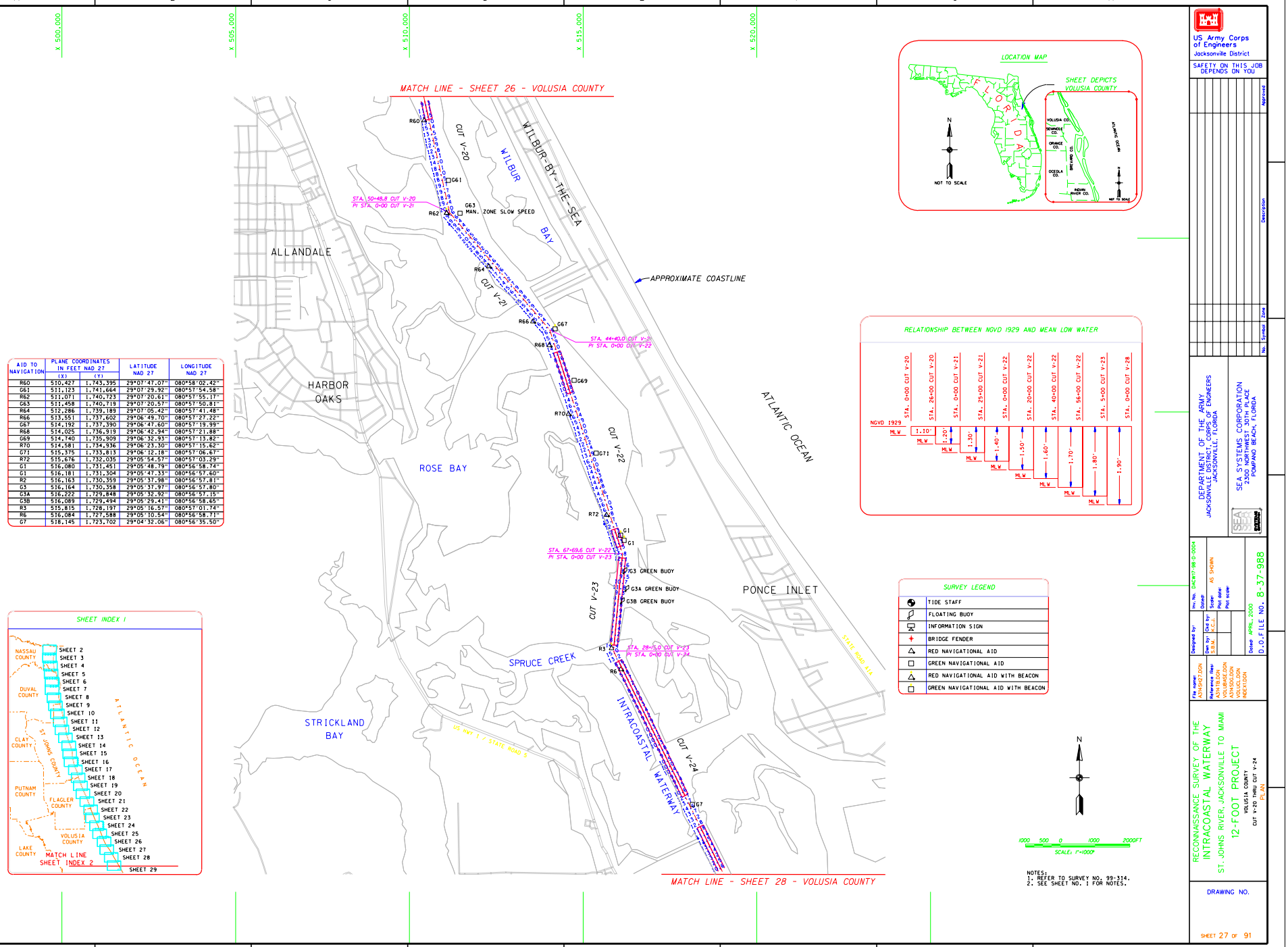

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R60	510,427	1,743,395	29°07'47.07"	080°58'02.42"
G61	511,123	1,741,664	29°07'29.92"	080°57'54.58"
R62	511,071	1,740,723	29°07'20.61"	080°57'55.17"
G63	511,458	1,740,719	29°07'20.57"	080°57'50.81"
R64	512,286	1,739,189	29°07'05.42"	080°57'41.48"
R66	513,551	1,737,602	29°06'49.70"	080°57'27.22"
G67	514,192	1,737,390	29°06'47.60"	080°57'19.99"
R68	514,025	1,736,919	29°06'42.94"	080°57'21.88"
G69	514,740	1,735,909	29°06'32.93"	080°57'13.82"
R70	514,581	1,734,936	29°06'23.30"	080°57'15.62"
G71	515,375	1,733,813	29°06'12.18"	080°57'06.67"
R72	515,676	1,732,035	29°05'54.57"	080°57'03.29"
G1	516,080	1,731,451	29°05'48.79"	080°56'58.74"
G1	516,181	1,731,304	29°05'47.33"	080°56'57.60"
R2	516,163	1,730,359	29°05'37.98"	080°56'57.81"
G3	516,164	1,730,358	29°05'37.97"	080°56'57.80"
G3A	516,222	1,729,848	29°05'32.92"	080°56'57.15"
G3B	516,089	1,729,494	29°05'29.41"	080°56'58.65"
R3	515,815	1,728,197	29°05'16.57"	080°57'01.74"
R6	516,084	1,727,588	29°05'10.54"	080°56'58.71"
G7	518,145	1,723,702	29°04'32.06"	080°56'35.50"

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

NOTES:
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Jacksonville District

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Approved | Description | Zone | No. Symbol

Des. No. DACW17-98-D-0004
Scale AS SHOWN
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Plot scale
Designed by
Drawn by K.C.J.
Checked by
Dated APRIL, 2000
File name
Reference files

D.O.F. FILE NO. 8-37-988

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-20 THRU CUT V-24
PLAN

DRAWING NO.

SHEET 27 OF 91

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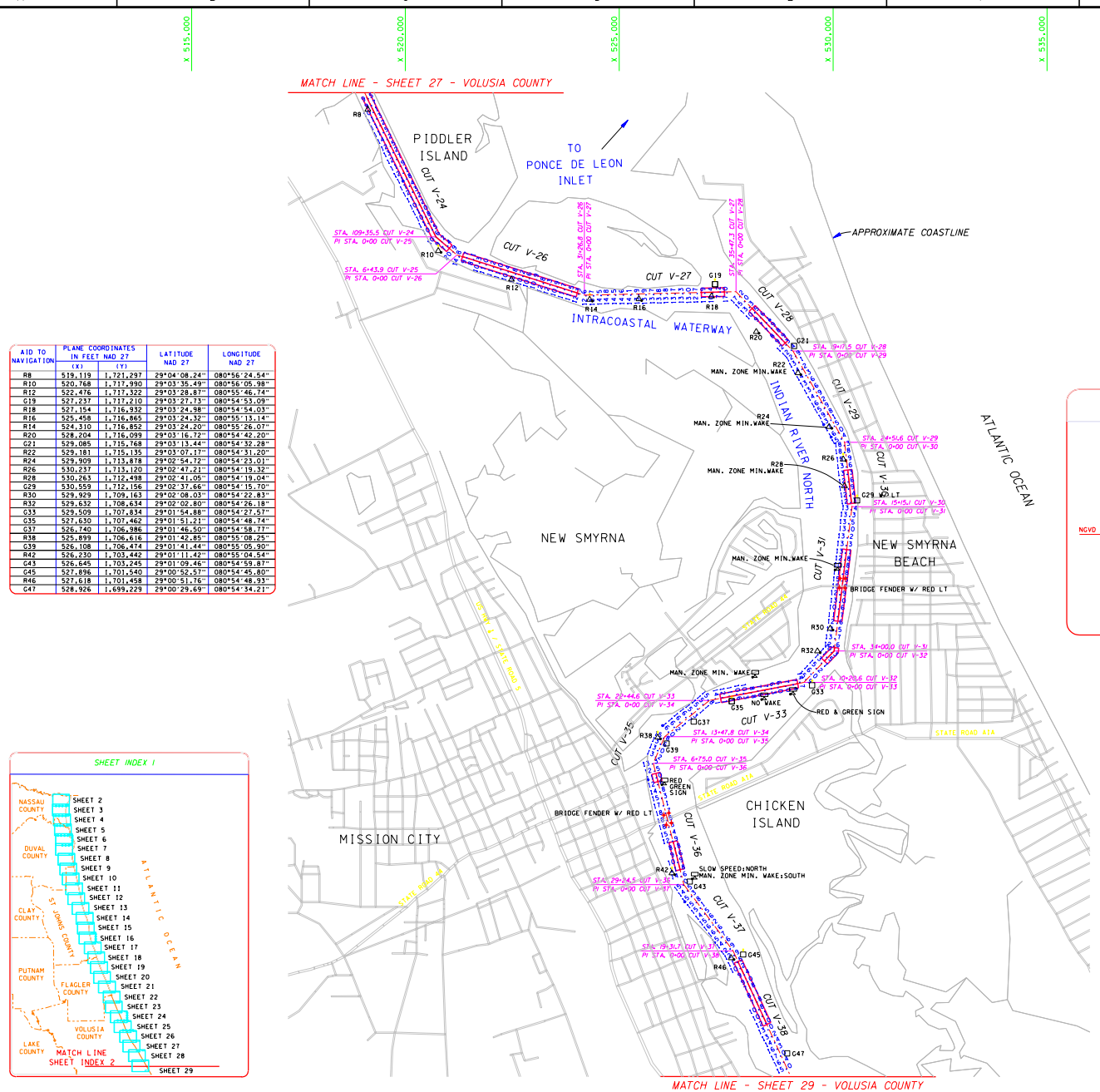
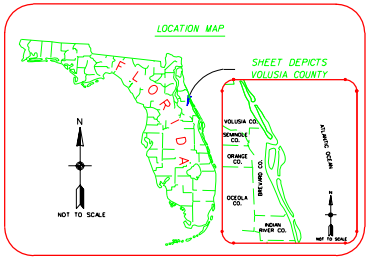
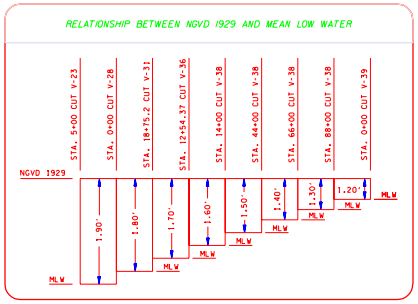
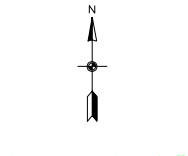


AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R8	519,119	1,721,297	29°04'08.24"	080°56'24.54"
R10	520,768	1,717,990	29°03'35.49"	080°56'05.98"
R12	522,476	1,717,322	29°03'28.87"	080°55'46.74"
G19	527,237	1,717,210	29°03'27.73"	080°54'53.09"
R18	527,154	1,716,932	29°03'24.98"	080°54'54.03"
R16	525,458	1,716,865	29°03'24.32"	080°55'13.14"
R14	524,310	1,716,852	29°03'24.20"	080°55'26.07"
R20	528,204	1,716,099	29°03'16.72"	080°54'42.20"
G21	529,085	1,715,768	29°03'13.44"	080°54'32.28"
R22	529,181	1,715,135	29°03'07.17"	080°54'31.20"
R24	529,909	1,713,878	29°02'54.72"	080°54'23.01"
R26	530,237	1,713,120	29°02'47.21"	080°54'19.32"
R28	530,263	1,712,498	29°02'41.05"	080°54'19.04"
G29	530,559	1,712,156	29°02'37.66"	080°54'15.70"
R30	529,929	1,709,163	29°02'08.03"	080°54'22.83"
R32	529,632	1,708,634	29°02'02.80"	080°54'26.18"
G33	529,509	1,707,834	29°01'54.88"	080°54'27.57"
G35	527,630	1,707,462	29°01'51.21"	080°54'48.74"
G37	526,740	1,706,986	29°01'46.50"	080°54'58.77"
R38	525,899	1,706,616	29°01'42.85"	080°55'08.25"
G39	526,108	1,706,474	29°01'41.44"	080°55'05.90"
R42	526,230	1,703,442	29°01'11.42"	080°55'04.54"
G43	526,645	1,703,245	29°01'09.46"	080°54'59.87"
G45	527,896	1,701,540	29°00'52.57"	080°54'45.80"
R46	527,618	1,701,458	29°00'51.76"	080°54'48.93"
G47	528,926	1,699,229	29°00'29.69"	080°54'34.21"





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. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Approved | Description | Date | Symbol | No.

Inv. No. CACW17-98-D-0004
Scale AS SHOWN
Plotted by
Plot date
Designed by
Drawn by S.B.M.
Checked by K.C.J.
Dated APRIL, 2000
D.O.F.ILE NO. 8-37-988

File name: 314SH28.DGN
Reference files: A314TB.DGN, VOLUBASE.DGN, A314SL01.DGN, A314SL02.DGN, INDEX1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-24 THRU CUT V-38
PLAN

DRAWING NO.

SHEET 28 OF 91

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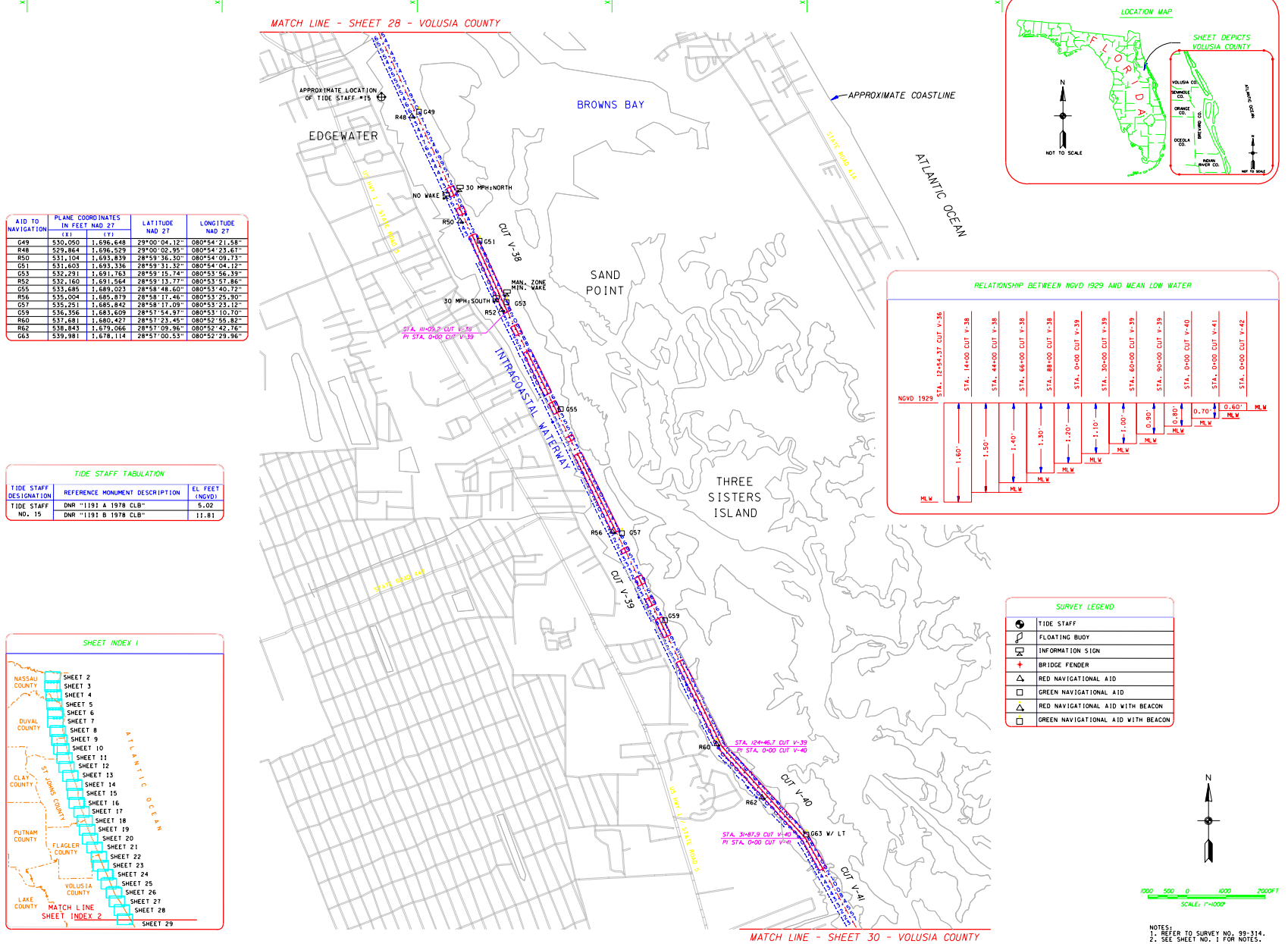

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (E)	(N)	LATITUDE NAD 27	LONGITUDE NAD 27
G49	530,050	1,696,648	29°00'04.12"	080°54'21.58"
R48	529,864	1,696,529	29°00'02.95"	080°54'23.67"
R50	531,104	1,693,839	28°59'36.30"	080°54'09.73"
G51	531,603	1,693,336	28°59'31.32"	080°54'04.12"
G53	532,291	1,691,763	28°59'15.74"	080°53'56.39"
R52	532,160	1,691,564	28°59'13.77"	080°53'57.86"
G55	533,685	1,689,023	28°58'48.60"	080°53'40.72"
R56	535,004	1,685,879	28°58'17.46"	080°53'25.30"
G57	535,251	1,685,842	28°58'17.09"	080°53'23.12"
G59	536,356	1,683,609	28°57'54.97"	080°53'10.70"
R60	537,681	1,680,427	28°57'23.45"	080°52'55.82"
R62	538,843	1,679,066	28°57'09.96"	080°52'42.76"
G63	539,981	1,678,114	28°57'00.53"	080°52'29.96"

STA. 111+08.2 CUT V-38
PI STA. 0+00 CUT V-39

STA. 124+46.7 CUT V-39
PI STA. 0+00 CUT V-40

STA. 31+87.9 CUT V-40
PI STA. 0+00 CUT V-41

G63 W/ LT

TIDE STAFF TABULATION

TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 15	DNR "1191 A 1978 CLB"	5.02
	DNR "1191 B 1978 CLB"	11.81

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

NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Proj. No. DACW17-98-D-0004
Scale AS SHOWN
Plot scale
Plot date APRIL, 2000
D.O.FILE NO. 8-37-988

Designed by
Drawn by K.C.J.
Checked by
Approved by

File name: 314SH29.DGN
Reference files: AJH1B.DGN, VOLUBASE.DGN, AJH-SOL.DGN, VOLUSOL.DGN, INDEX.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-38 THRU CUT V-41
PLAN

DRAWING NO.

SHEET 29 OF 91

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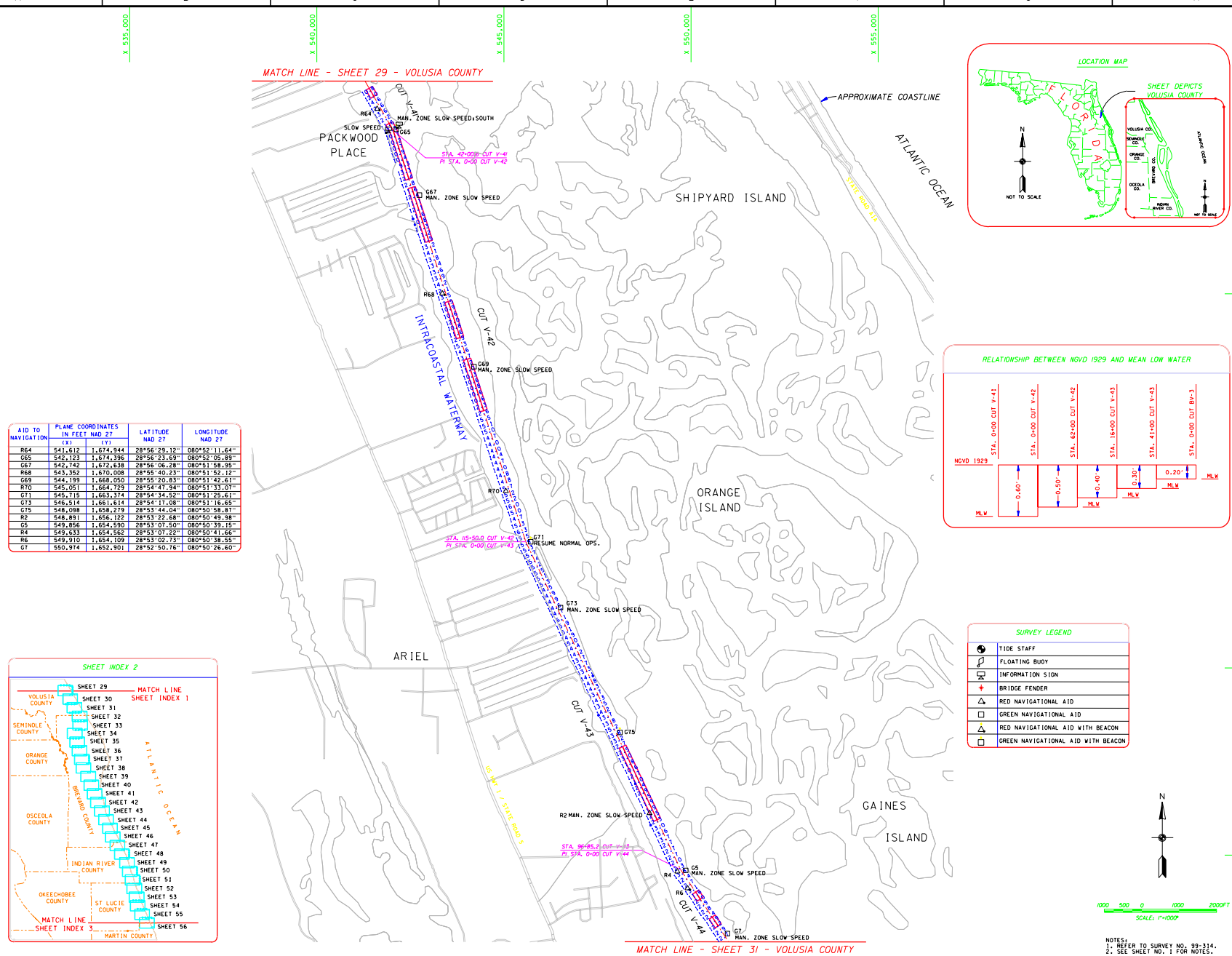

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R64	541,612	1,674,944	28°56'29.12"	080°52'11.64"
G65	542,123	1,674,396	28°56'23.69"	080°52'05.89"
G67	542,742	1,672,638	28°56'06.28"	080°51'58.95"
R68	543,352	1,670,008	28°55'40.23"	080°51'52.12"
G69	544,199	1,668,050	28°55'20.83"	080°51'42.61"
R70	545,051	1,664,729	28°54'47.94"	080°51'33.07"
G71	545,715	1,663,374	28°54'34.52"	080°51'25.61"
G73	546,514	1,661,614	28°54'17.08"	080°51'16.65"
G75	548,098	1,658,279	28°53'44.04"	080°50'58.87"
R2	548,891	1,656,122	28°53'22.68"	080°50'49.98"
G5	549,856	1,654,590	28°53'07.50"	080°50'39.15"
R4	549,633	1,654,562	28°53'07.22"	080°50'41.66"
R6	549,910	1,654,109	28°53'02.73"	080°50'38.55"
G7	550,974	1,652,901	28°52'50.76"	080°50'26.60"

SHEET INDEX 2

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

NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Proj. No. DACW17-98-D-0004
Scale AS SHOWN
Plot date
Plot scale
Designed by
Drawn by K.C.J.
Checked by
Dated APRIL, 2000
D.O.FILE NO. 8-37-988

File name: RECON1.DGN
Reference files: A1M1B.DGN, VOLUBASE.DGN, A1M-SOL.DGN, VOLUSOL.DGN, INDEX1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-41 THRU CUT V-44
PLAN

DRAWING NO.

SHEET 30 OF 91

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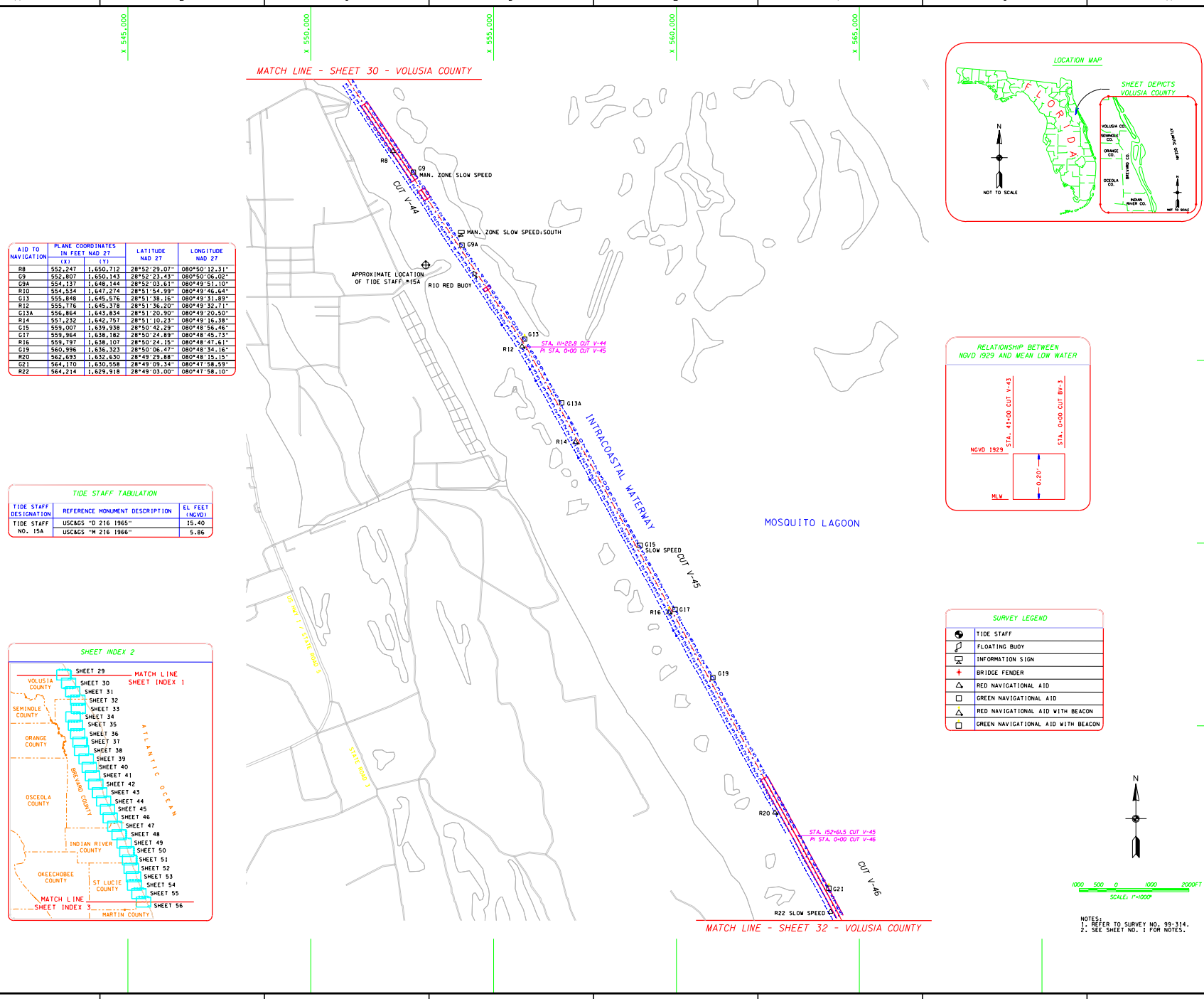

AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R8	552,247	1,650,712	28°52'29.07"	080°50'12.31"
G9	552,807	1,650,143	28°52'23.43"	080°50'06.02"
G9A	554,137	1,648,144	28°52'03.61"	080°49'51.10"
R10	554,534	1,647,274	28°51'54.99"	080°49'46.64"
G13	555,848	1,645,576	28°51'38.16"	080°49'31.89"
R12	555,776	1,645,378	28°51'36.20"	080°49'32.71"
G13A	556,864	1,643,834	28°51'20.90"	080°49'20.50"
R14	557,232	1,642,757	28°51'10.23"	080°49'16.38"
G15	559,007	1,639,938	28°50'42.29"	080°48'56.46"
G17	559,964	1,638,182	28°50'24.89"	080°48'45.73"
R16	559,797	1,638,107	28°50'24.15"	080°48'47.61"
G19	560,996	1,636,323	28°50'06.47"	080°48'34.16"
R20	562,693	1,632,630	28°49'29.88"	080°48'15.15"
G21	564,170	1,630,558	28°49'09.34"	080°47'58.59"
R22	564,214	1,629,918	28°49'03.00"	080°47'58.10"

TIDE STAFF TABULATION

TIDE STAFF DESIGNATION	REFERENCE MONUMENT DESCRIPTION	EL FEET (NGVD)
TIDE STAFF NO. 15A	USC&GS "D 216 1965"	15.40
	USC&GS "M 216 1966"	5.86

SHEET INDEX 2

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

NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Proj. No. CACW17-98-D-0004
Scale: AS SHOWN
Plot scale:
Plot date: APRIL, 2000
D.O.F.FILE NO. 8-37-988

Designed by:
Drawn by: K.C.J.
Checked by:
File name: SHEET INDEX
Reference files: A314SH.DGN, VOLUSIA.DGN, A314SH2.DGN, VOLUSIA.DGN, INDEX1.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
VOLUSIA COUNTY
CUT V-44 THRU CUT V-46
PLAN

DRAWING NO.

SHEET 31 OF 91

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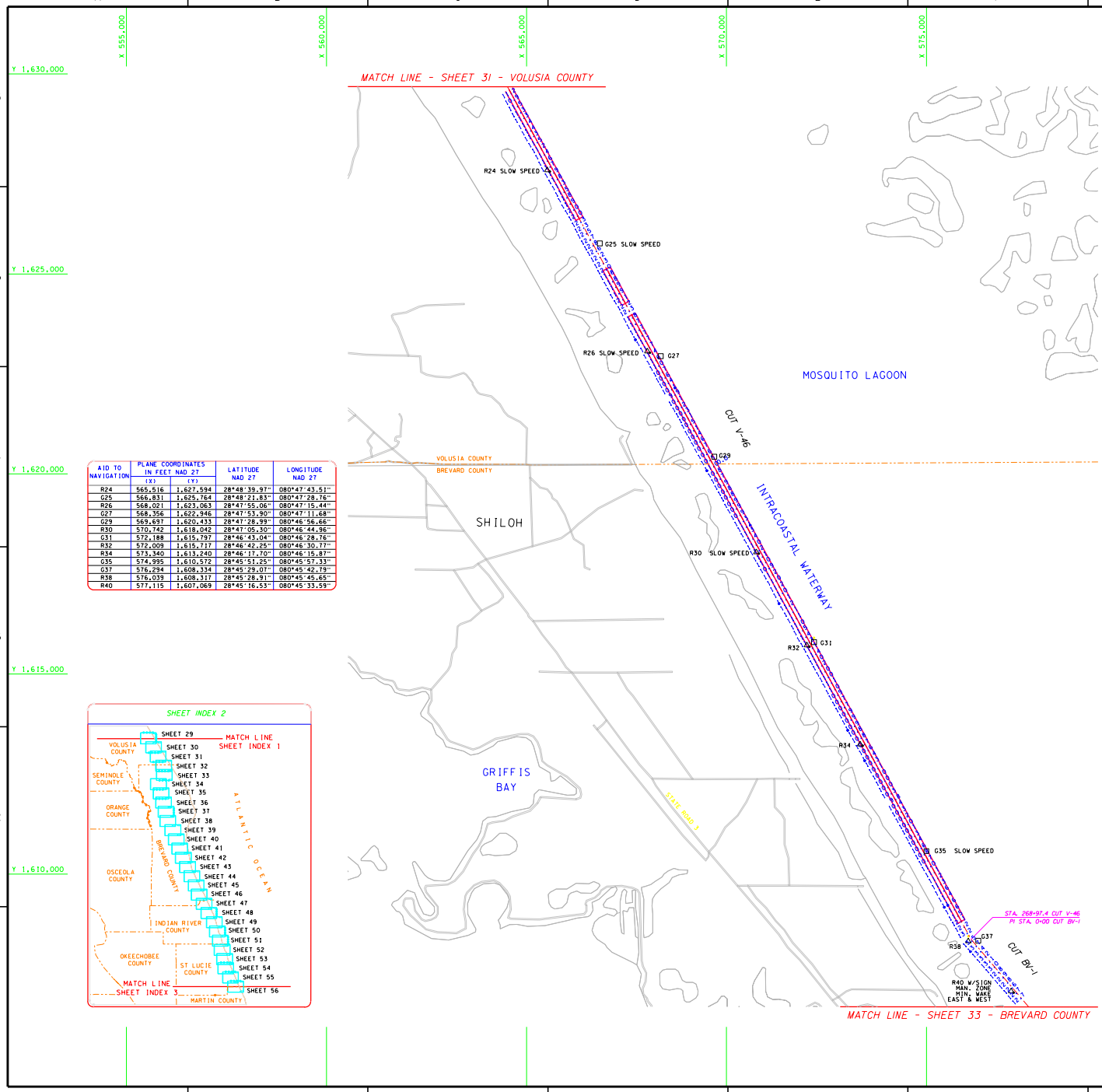
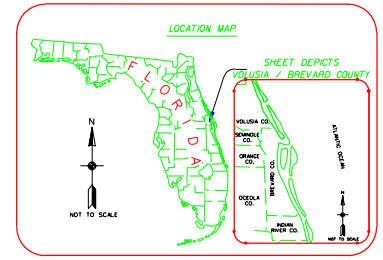
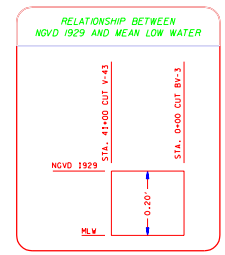


AID TO NAVIGATION	PLANE COORDINATES IN FEET NAD 27 (X)	(Y)	LATITUDE NAD 27	LONGITUDE NAD 27
R24	565,516	1,627,594	28°48'39.97"	080°47'43.51"
G25	566,831	1,625,764	28°48'21.83"	080°47'28.76"
R26	568,021	1,623,063	28°47'55.06"	080°47'15.44"
G27	568,356	1,622,946	28°47'53.90"	080°47'11.68"
G29	569,697	1,620,433	28°47'28.99"	080°46'56.66"
R30	570,742	1,618,042	28°47'05.30"	080°46'44.96"
G31	572,188	1,615,797	28°46'43.04"	080°46'28.76"
R32	572,009	1,615,717	28°46'42.25"	080°46'30.77"
R34	573,340	1,613,240	28°46'17.70"	080°46'15.87"
G35	574,995	1,610,572	28°45'51.25"	080°45'57.33"
G37	576,294	1,608,334	28°45'29.07"	080°45'42.79"
R38	576,039	1,608,317	28°45'28.91"	080°45'45.65"
R40	577,115	1,607,069	28°45'16.53"	080°45'33.59"





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

1000 500 0 1000 2000FT
SCALE: 1"=1000'

NOTES:
1. REFER TO SURVEY NO. 99-314.
2. SEE SHEET NO. 1 FOR 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

SEA SYSTEMS CORPORATION
2300 NORTHWEST 30TH PLACE
POMPANO BEACH, FLORIDA

Inv. No. DACW17-98-0-0004
Dated:
Scale: AS SHOWN
Plot date:
Plot scale:

Designed by:
Dwn by: S.B.M.
Ckd by: K.C.J.

Dated: APRIL, 2000
D.O.FILE NO. 8-37-988

File name: A314SH32.DGN
Reference files: A314TB.DGN VOLUBASE.DGN A314SOG.DGN VOLUCL.DGN INDEX1.DGN BREVBASE.DGN BREVCL.DGN

RECONNAISSANCE SURVEY OF THE INTRACOASTAL WATERWAY
ST. JOHNS RIVER, JACKSONVILLE TO MIAMI
12-FOOT PROJECT
BREVARD AND VOLUSIA COUNTY
CUT V-46 THRU CUT BV-1
PLAN

DRAWING NO.

SHEET 32 OF 91

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