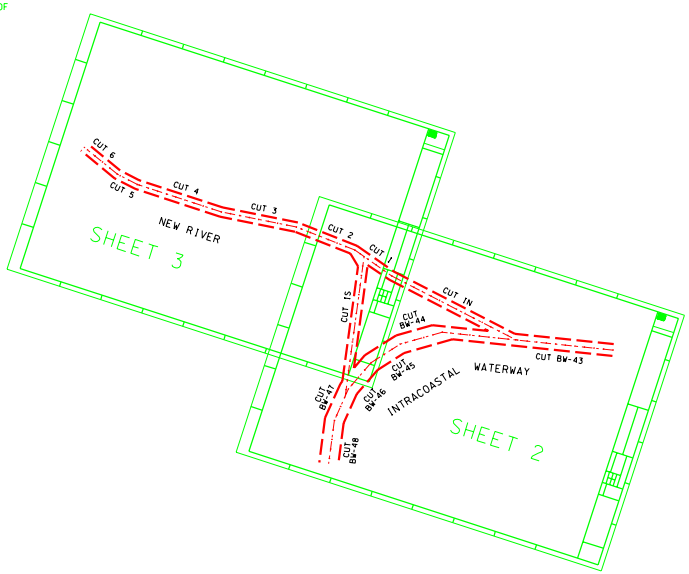
NEW RIVER, 8-FOOT PROJECT
AND
INTRACOASTAL WATERWAY,
JACKSONVILLE TO MIAMI
CUT BW-43 THRU BW-48, 10-FOOT PROJECT
FT. LAUDERDALE, BROWARD CO., FLORIDA

SURVEY NOTES:

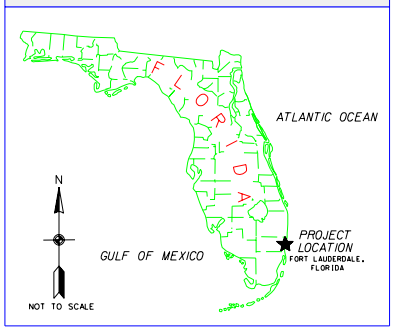
1. REFER TO SURVEY NO. 02-081.
2. THE SURVEY WAS PERFORMED ON APRIL 16 THRU 19, 2002.
3. ALL AZIMUTHS ARE GRID, RECKONED CLOCKWISE FROM SOUTH.
4. THE COORDINATES SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1927 (NAD27).
5. ELEVATIONS ARE IN FEET AND ARE REFERENCED TO MEAN LOWER LOW WATER WHICH IS 0.84 FEET BELOW NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
6. VESSEL POSITIONING WAS OBTAINED BY A TRIMBLE, REAL-TIME DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) UTILIZING THE U.S.C.G. NAVBEACON AT EGMONT KEY.
9. UNDERGROUND IMPROVEMENTS OR UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY AND SHOULD BE FIELD VERIFIED PRIOR TO ANY DREDGING AND/OR CONSTRUCTION.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
11. THIS SURVEY IS NOT VALID WITHOUT A STAMPED SEAL AND THE ORIGINAL SIGNATURE OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER.
12. REFER TO FIELD BOOK 2002 BROWARD COUNTY NO. 45 .
13. TIDE REDUCTIONS FOR THE HYDROGRAPHIC PORTION OF THIS SURVEY WAS MADE FROM MEASURE DOWNS FROM MONUMENT NR-2 AND ARE REFERENCED TO MLLW WHICH IS 0.84' BELOW NGVD-29
14. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
15. ELEVATIONS SHOWN HEREON ARE BELOW THE REFERENCE DATUM UNLESS PRECEDED BY A (+) SIGN.
16. THIS MAP HAS BEEN REVIEWED TO BE IN COMPLIANCE WITH ALL CORPS OF ENGINEERS STANDARDS BY THE UNDERSIGNED:

BRIAN K. FOSTER, PSM 5826
CHARLEY FOSTER AND ASSOCIATES, INC.
(205)345-5057

DRAWINGS CHECKED BY:



LOCATION MAP



ABBREVIATIONS

STA.	STATION
EL.	ELEVATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NAD	NORTH AMERICAN DATUM
MLLW	MEAN LOWER LOW WATER
CMON	CONCRETE MONUMENT
B/D	BRASS DISK
CONC	CONCRETE

LEGEND

+BM	BENCHMARK
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	RED/GREEN LGT. BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF

NGVD 1929
0.84 feet
M.L.L.W.

Relationship between NGVD 1929 and 1960 - 1978 epoch NOAA Mean Lower Low Water Tidal Datum

SURVEY CONTROL

MONUMENT DESIGNATION	ELEVATION NGVD 29
NR-2	4.35

AUTHORIZED PROJECT DEPTHS

8-FOOT	CUT-1S, CUT-1N, AND CUT-1 THRU CUT-6
10-FOOT	CUT-BW-43 THRU CUT-BW-48

VESSEL	DATE	AREA	LOCATION OF STAFF	BENCHMARK
LITTLE JOHN	16-19 APR 02	ALL CUTS	POLE @ DAY MARKER #3	NR-2

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

PREPARED BY
CHARLEY FOSTER AND ASSOCIATES, INC
3500 SKYLAND BLVD. EAST
TUSCALOOSA, ALABAMA 35405

Fwy No. DACW17-01-D-0015
Dated: 12 MAY 2002
Scale: AS SHOWN
Plot date: 12 MAY 2002
Plot scale: AS SHOWN

Designed by
Dwn by
Ckd by
Dwn by
Ckd by

Dated: APRIL 2002
D.O.F ILE NO. 18-38,307

File name:
Reference files:
CGEBSPOR.DGN
CGEBNAVG.DGN
CGEBSHOR.DGN
CGEBSHOG.DGN
CGEBSHOL.DGN
CGEBTRUL.DGN

FORT LAUDERDALE
BROWARD COUNTY, FLORIDA
NEW RIVER, 8-FOOT PROJECT AND
INTRACOASTAL WATERWAY CUT BW-43
THRU BW-48, 10-FOOT PROJECT
PROJECT CONDITION SURVEY
COVER

DRAWING NO.

SHEET 1 OF 4

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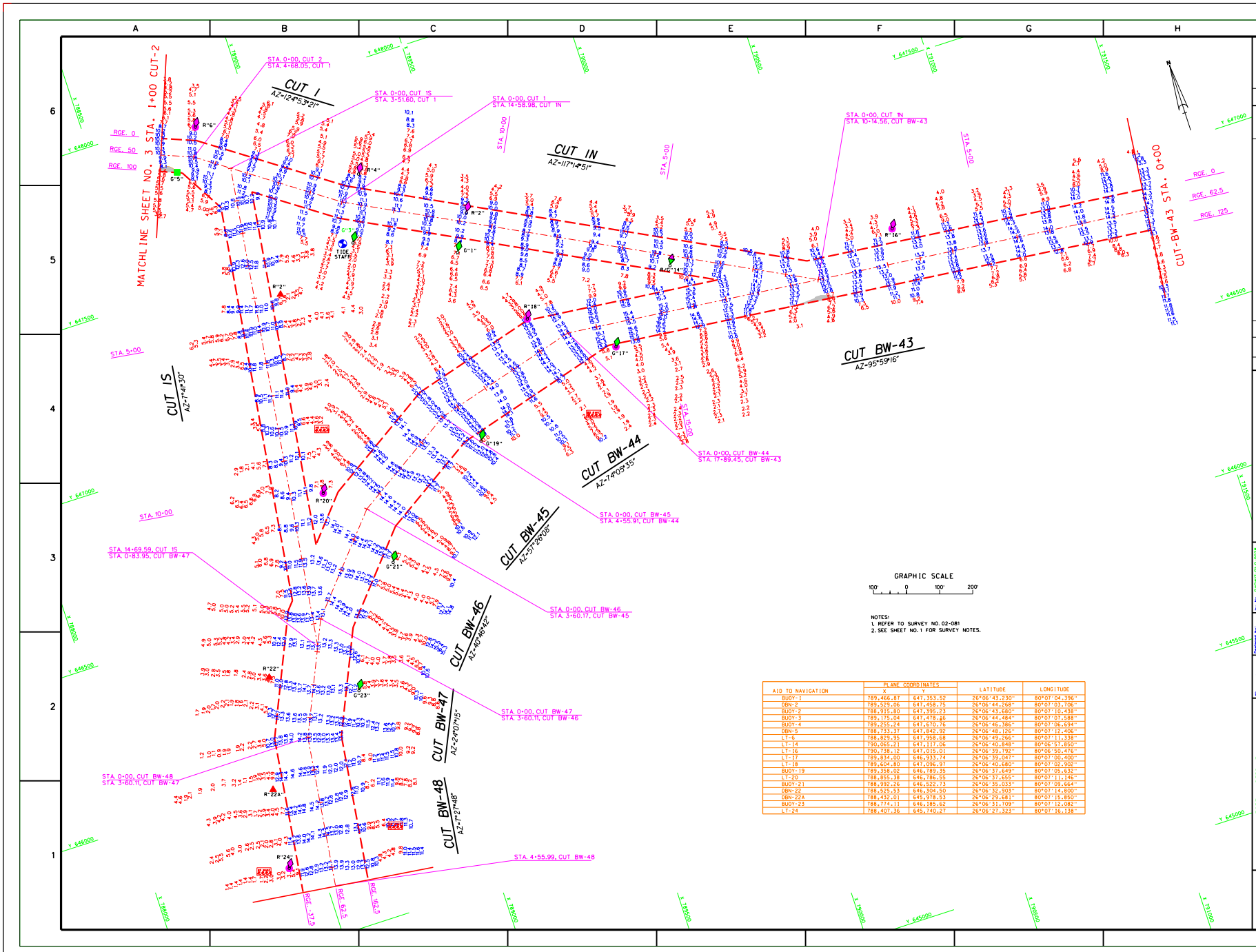

NOTES:
1. REFER TO SURVEY NO. 02-081
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
BUOY-1	789,466.87	647,353.52	26°06'43.230"	80°07'04.396"
DBN-2	789,529.06	647,458.75	26°06'44.268"	80°07'03.706"
BUOY-2	788,915.80	647,395.23	26°06'43.680"	80°07'10.438"
BUOY-3	789,175.04	647,478.46	26°06'44.484"	80°07'07.588"
BUOY-4	789,255.24	647,670.76	26°06'46.386"	80°07'06.694"
DBN-5	788,733.37	647,842.92	26°06'48.126"	80°07'12.406"
LT-6	788,829.95	647,958.68	26°06'49.266"	80°07'11.338"
LT-14	790,055.21	647,117.06	26°06'40.848"	80°06'57.850"
LT-16	790,738.12	647,015.01	26°06'39.792"	80°06'50.476"
LT-17	789,834.00	646,933.74	26°06'39.047"	80°07'00.406"
LT-18	789,604.80	647,096.97	26°06'40.680"	80°07'02.902"
BUOY-19	789,358.02	646,789.35	26°06'37.649"	80°07'05.632"
LT-20	788,855.38	646,786.55	26°06'37.635"	80°07'11.146"
BUOY-21	788,992.26	646,522.73	26°06'35.033"	80°07'09.664"
DBN-22	788,525.53	646,304.50	26°06'32.903"	80°07'14.800"
DBN-22A	788,432.01	645,978.53	26°06'29.681"	80°07'15.850"
BUOY-23	788,774.11	646,185.62	26°06'31.709"	80°07'12.082"
LT-24	788,407.36	645,740.27	26°06'27.323"	80°07'16.138"

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

PREPARED BY:
CHARLEY FOSTER AND ASSOCIATES, INC
3500 SKYLAND BLVD. EAST
TUSCALOOSA, ALABAMA 35405

Fin. No. DACW17-01-D-0028
Dated: 12 MAY 2002
Scale: AS SHOWN
Plot date: 12 MAY 2002
Plot scale: AS SHOWN

Designed by:
Dwn by:
Ckd by:
Date by:

Dated: APRIL 2002
D.O.FILE NO. 18-38.307

File name:
Reference files:
CD01BEIRDR.DGN
CD01BNAVG.DGN
CD01BNOTE.DGN
CD01BNSG.DGN
CD01BPRO1.DGN
CD01BPRO2.DGN

FORT LAUDERDALE
BROWARD COUNTY, FLORIDA
NEW RIVER 8-FOOT PROJECT AND
INTRACOASTAL WATERWAY CUT BW-43
THRU BW-48, 10-FOOT PROJECT
PROJECT CONDITION SURVEY
PLAN

DRAWING NO.

SHEET 2 OF 4

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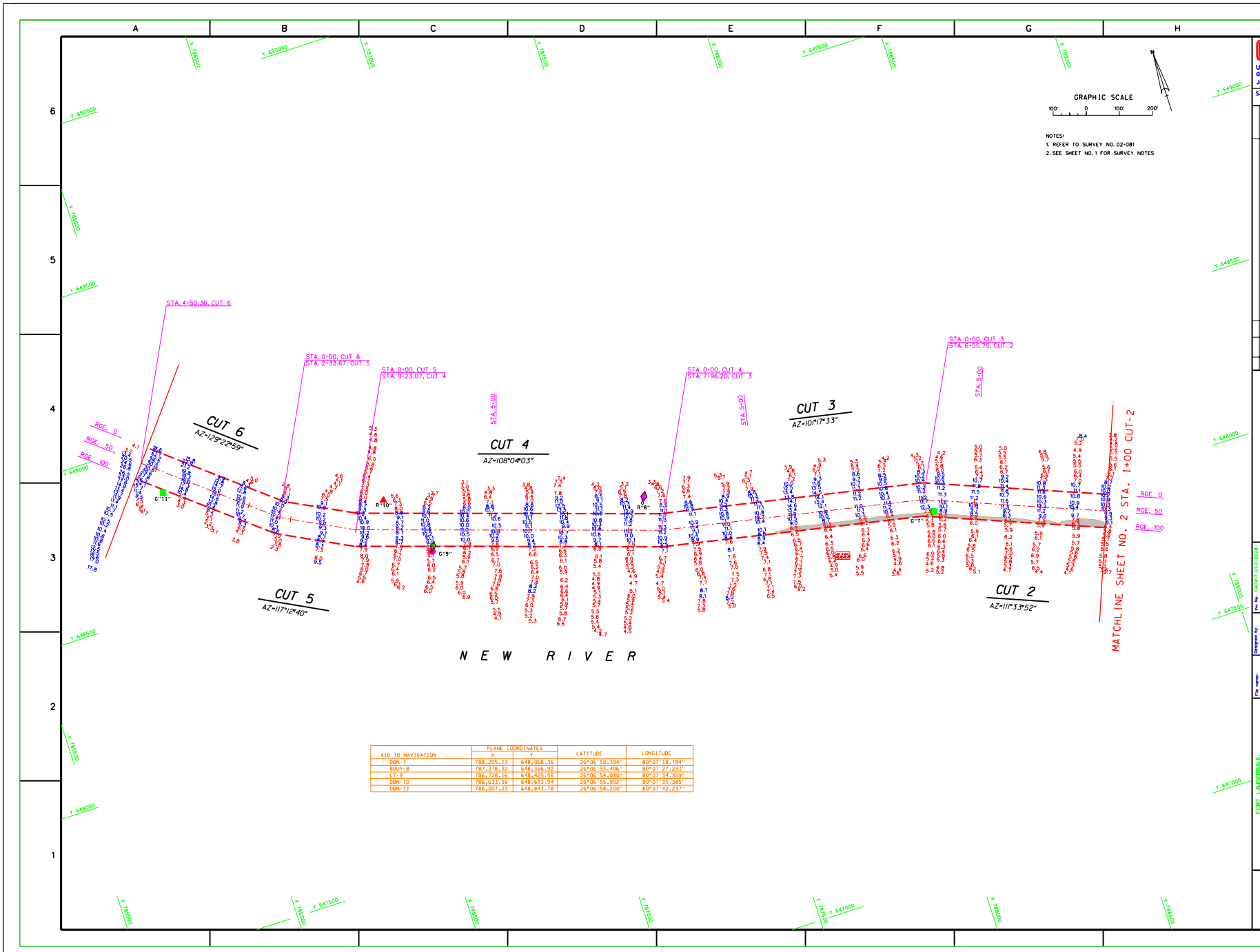

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-7	788,205.13	648,068.36	26°06'50.394"	80°07'18.184"
BOUY-8	787,378.32	648,366.92	26°06'53.406"	80°07'27.231"
LT-9	786,728.16	648,425.56	26°06'54.030"	80°07'34.359"
DBN-10	786,633.36	648,613.94	26°06'55.902"	80°07'35.385"
DBN-11	786,007.23	648,841.78	26°06'58.200"	80°07'42.237"

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

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TUSCALOOSA, ALABAMA 35405

Designed by:
Dwn by:
Ckd by:
Date:
Dwg No. DACW17-01-D-0028
Date: 12 MAY 2002
Scale: AS SHOWN
Plot date: 12 MAY 2002
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Date: APRIL 2002
D.O.FILE NO. 18-38.307

File name:
Reference files:
CORSBRDR.DGN
CORSNAVG.DGN
CORSNAVG.DGN
CORSPNSG.DGN
CORSPNSG.DGN
CORSPNLL.DGN
CORSPNLL.DGN

FORT LAUDERDALE
BROWARD COUNTY, FLORIDA
NEW RIVER, 8-FOOT PROJECT AND
INTRACOASTAL WATERWAY CUT BW-43
THRU BW-48, 10-FOOT PROJECT
PROJECT CONDITION SURVEY
PLAN

DRAWING NO.

SHEET 3 OF 4

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CHANNEL LIMITS

CONTROL POINT	CUT NUMBER	COORDINATES EASTING (X)	COORDINATES NORTHING (Y)	STATION	RANGE
1	CUT-BW-43	791,493.85	646,894.34	0+00.00	00.00
2	CUT-BW-43	791,480.81	646,910.20	0+00.00	100.00
3	CUT-IN	790,484.83	647,002.65	10+17.08	00.00
4	CUT-IN	790,187.92	647,031.52	13+17.08	00.00
5	CUT-BW-44	789,609.13	647,092.17	0+84.42	100.00
6	CUT-BW-43	789,613.16	646,993.35	16+16.80	100.00
7	CUT-BW-44	789,422.21	646,989.07	1+70.93	-37.50
8	CUT-BW-44	789,310.68	646,801.15	4+41.26	162.50
9	CUT-BW-45	788,833.43	648,176.45	3+78.81	-37.50
10	CUT-BW-45	789,051.81	648,621.65	3+45.53	162.50
11	CUT-IS	788,786.38	649,845.31	11+85.58	100.00
12	CUT-IS	788,666.14	649,506.60	13+19.06	00.00
13	CUT-BW-46	788,612.46	648,481.98	1+74.75	-37.50
14	CUT-BW-46	788,815.14	648,173.14	3+45.47	162.50
15	CUT-BW-47	788,486.04	648,126.20	1+14.75	-37.50
16	CUT-BW-47	788,680.54	646,071.13	3+45.47	162.50
17	CUT-BW-48	788,424.94	645,859.56	4+55.99	-37.50
18	CUT-BW-48	788,623.21	645,633.58	4+55.99	162.50
19	CUT-IN	789,407.10	647,648.31	14+55.64	00.00
20	CUT-IN	789,355.38	647,563.07	14+62.52	100.00
21	CUT-IS	788,831.43	647,719.24	0+81.31	100.00
22	CUT-IS	788,828.16	647,703.29	4+11.5	00.00
23	CUT-I	788,824.13	647,318.06	4+73.89	00.00
24	CUT-2	788,748.14	641,833.15	0+12.48	100.00
25	CUT-2	788,201.67	648,162.88	6+60.25	00.00
26	CUT-2	788,173.27	648,066.58	6+51.55	100.00
27	CUT-3	787,419.38	648,319.09	1+93.22	00.00
28	CUT-3	787,333.98	648,222.13	1+88.17	100.00
29	CUT-4	786,148.43	648,603.22	3+13.07	00.00
30	CUT-4	786,508.83	648,510.62	3+27.06	100.00
31	CUT-5	786,148.95	648,706.80	2+28.43	00.00
32	CUT-5	786,233.71	648,621.14	2+18.00	100.00
33	CUT-6	786,004.96	648,988.17	4+50.16	00.00
34	CUT-6	785,941.50	648,910.88	4+50.16	100.00

CHANNEL CONTROL

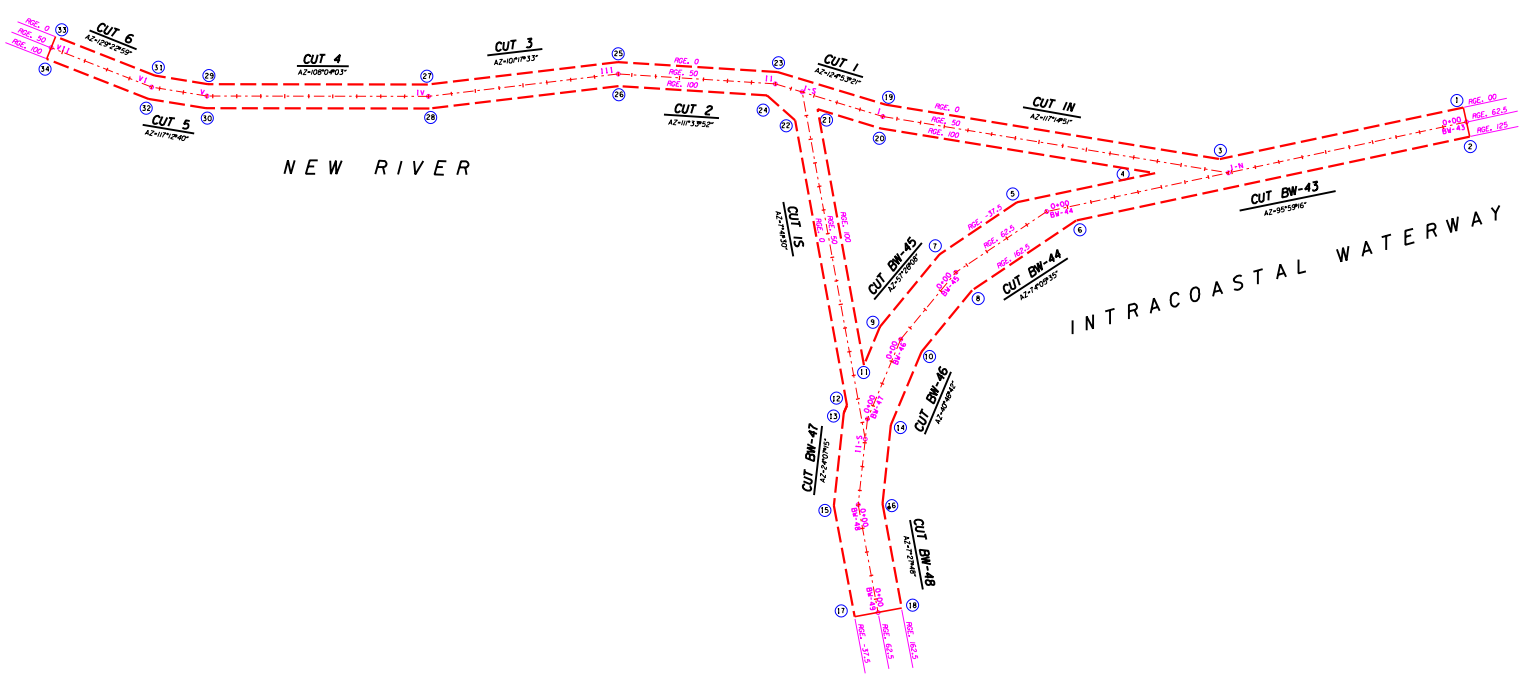
P.I.	CUT NUMBER	COORDINATES EASTING (X)	COORDINATES NORTHING (Y)	STATION	RANGE
0+00		791,481.33	646,832.48	0+00.00	62.50
BW-43	CUT-BW-43				
0+00	CUT-BW-43	789,707.64	647,018.86	17+89.45	62.50
BW-44	CUT-BW-44			0+00.00	62.50
0+00	CUT-BW-44	789,269.19	646,893.91	4+55.91	62.50
BW-45	CUT-BW-45			0+00.00	62.50
0+00	CUT-BW-45	788,965.65	646,700.05	4+60.07	62.50
BW-46	CUT-BW-46			0+00.00	62.50
0+00	CUT-BW-46	788,730.45	646,427.36	0+80.00	62.50
BW-47	CUT-BW-47			0+00.00	62.50
0+00	CUT-BW-47	788,583.29	646,098.69	3+82.14	62.50
BW-48	CUT-BW-48			0+00.00	62.50
0+00	CUT-BW-48	788,524.06	645,646.57	4+52.92	62.50
BW-49	CUT-BW-49			0+00.00	62.50
I-S	CUT-I	788,892.84	647,807.10	3+54.80	50.00
	CUT-IS			0+00.00	50.00
II-S	CUT-2	788,696.14	646,350.73	14+63.42	50.00
	CUT-BW-47			0+83.95	50.00
	CUT-BW-43			10+14.46	50.00
I-N	CUT-IN	790,478.33	646,938.02	0+00.00	50.00
I	CUT-IN	789,181.24	647,605.99	0+00.00	50.00
	CUT-I			14+58.38	50.00
II	CUT-2	788,797.32	647,873.71	0+00.00	50.00
	CUT-2			4+68.05	50.00
III	CUT-3	788,187.47	648,114.73	0+00.00	50.00
	CUT-3			6+59.75	50.00
IV	CUT-4	787,406.68	648,270.64	0+00.00	50.00
	CUT-4			1+38.60	50.00
V	CUT-5	786,529.13	648,556.92	0+00.00	50.00
	CUT-5			9+23.07	50.00
VI	CUT-6	786,321.32	648,663.77	0+00.00	50.00
	CUT-6			2+33.45	50.00
VII	CUT-6	785,973.23	648,949.52	0+00.00	50.00
				4+50.16	50.00

SCALE: 1" = 200'

200' 0 200'

NOTES:

1. REFER TO SURVEY NO. 02-081
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

PREPARED BY:
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File name:
Reference files:
CO81BPDR.DGN
CO81BWAD.DGN
CO81CHAN.DGN
CO81SNGL.DGN
CO81TPLL.DGN

FORT LAUDERDALE
BROWARD COUNTY, FLORIDA
NEW RIVER 8-FOOT PROJECT AND
INTRACOASTAL WATERWAY CUT BW-43
THRU BW-48, 10-FOOT PROJECT
PROJECT CONDITION SURVEY
CHANNEL LAYOUT

DRAWING NO.

SHEET 4 OF 4

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