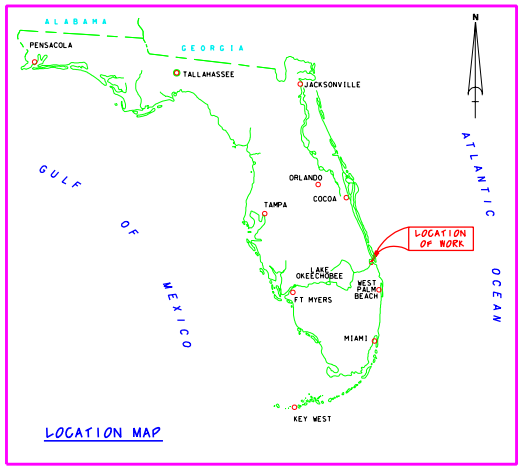
SAFETY ON THIS JOB
DEPENDS ON YOU

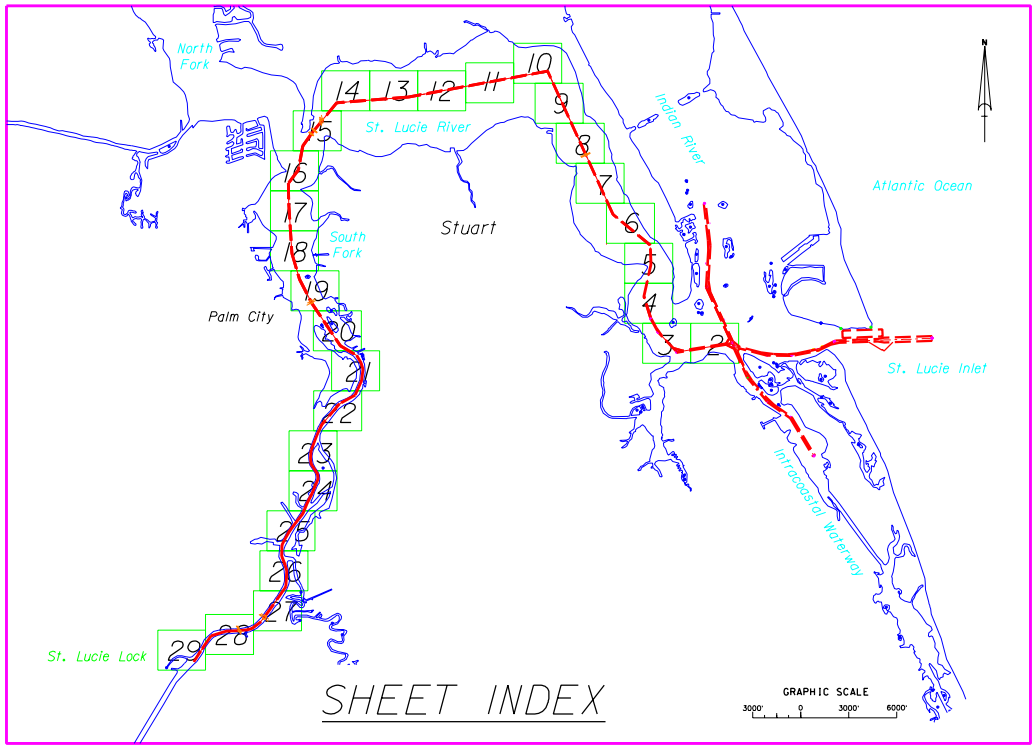
OKEECHOBEE WATERWAY
ST. LUCIE RIVER
PROJECT CONDITION SURVEY

US Army Corps of Engineers

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



LOCATION MAP



SHEET INDEX

SURVEY NOTES:

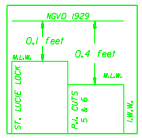
1. REFER TO SURVEY NO. 98-183.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLW). REFER TO TABLE SHOWN FOR DIFFERENCES FROM NGVD 1929.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM MULTIPLE STAFFS. REFERENCED FROM BENCHMARKS SHOWN IN TABLE BELOW.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER FATHOMETER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
WB-34	11 JUNE THRU 7 JULY 1998	1 THRU AF

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.
11. SURVEY QUALITY CONTROL STANDARDS AND FIELD EQUIPMENT CALIBRATIONS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH EM 1110-2-1003 FOR CLASS 1 HYDROGRAPHIC SURVEYS.

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

BENCHMARK	NGVD ELEV. (FT)
IWM-35	5.76
NORTH DRAW	18.29
SLR-40	6.92
ST. LUCIE LOCK-3	15.32



Relationship between NGVD 1929 and Mean Low Water

PREPARED BY:
APPROVAL RECOMMENDED:
APPROVED:

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
INTRACOASTAL WATERWAY TO ST. LUCIE LOCK
PLAN

DWN BY:	CKD. BY:	INV. NO.	SIZE	DRAWING NO.
FMW		DATED:	F	
		SCALE: AS SHOWN	DATED: AUG 1998	SHEET 1 OF 29

D.O.FILE NO. 120A-37.639

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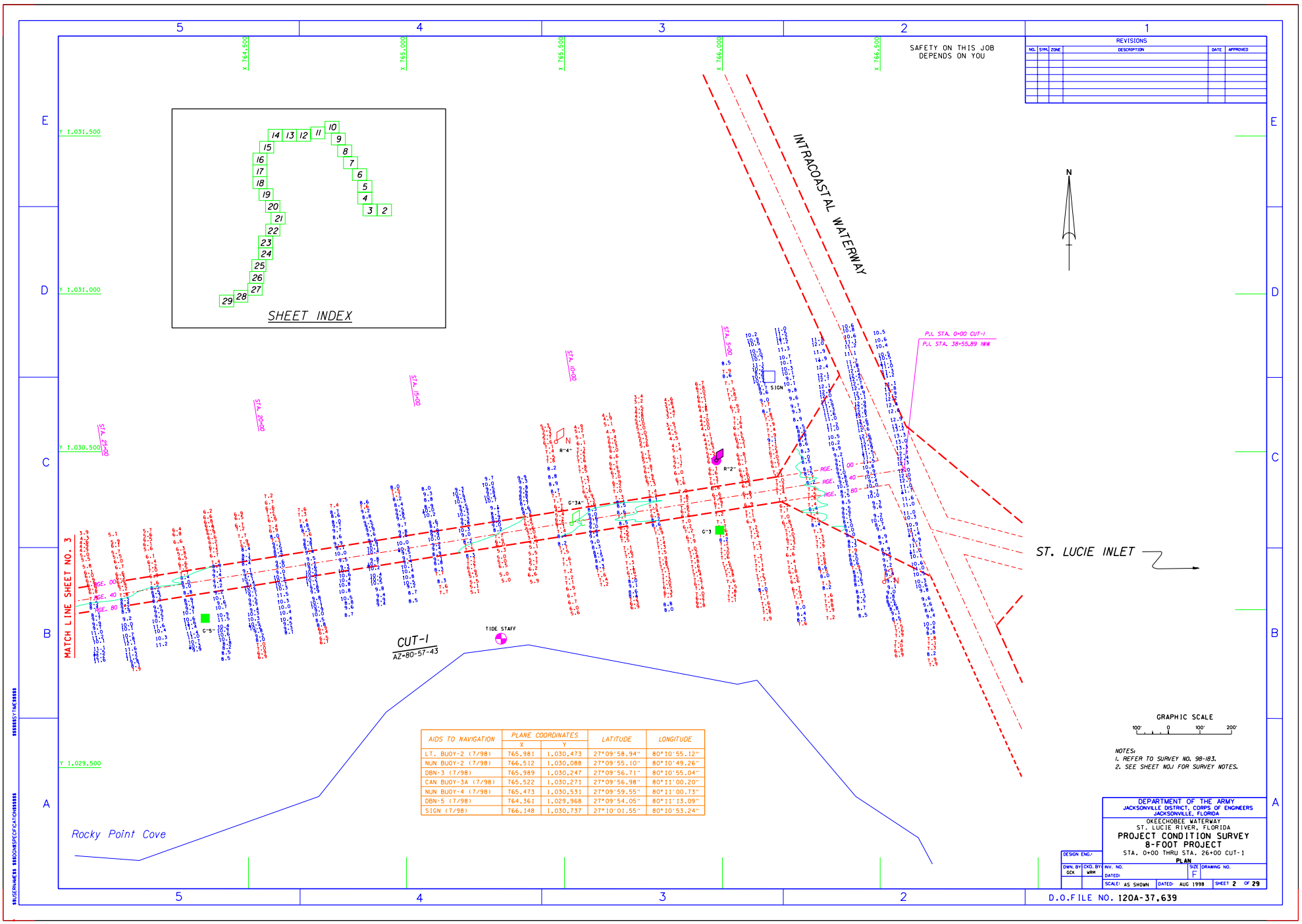

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-2 (7/98)	765,981	1,030,473	27°09'58.94"	80°10'55.12"
NUN BUOY-2 (7/98)	766,512	1,030,088	27°09'55.10"	80°10'49.26"
DBN-3 (7/98)	765,989	1,030,247	27°09'56.71"	80°10'55.04"
CAN BUOY-3A (7/98)	765,522	1,030,271	27°09'56.98"	80°11'00.20"
NUN BUOY-4 (7/98)	765,473	1,030,531	27°09'59.55"	80°11'00.73"
DBN-5 (7/98)	764,361	1,029,968	27°09'54.05"	80°11'13.09"
SIGN (7/98)	766,148	1,030,737	27°10'01.55"	80°10'53.24"

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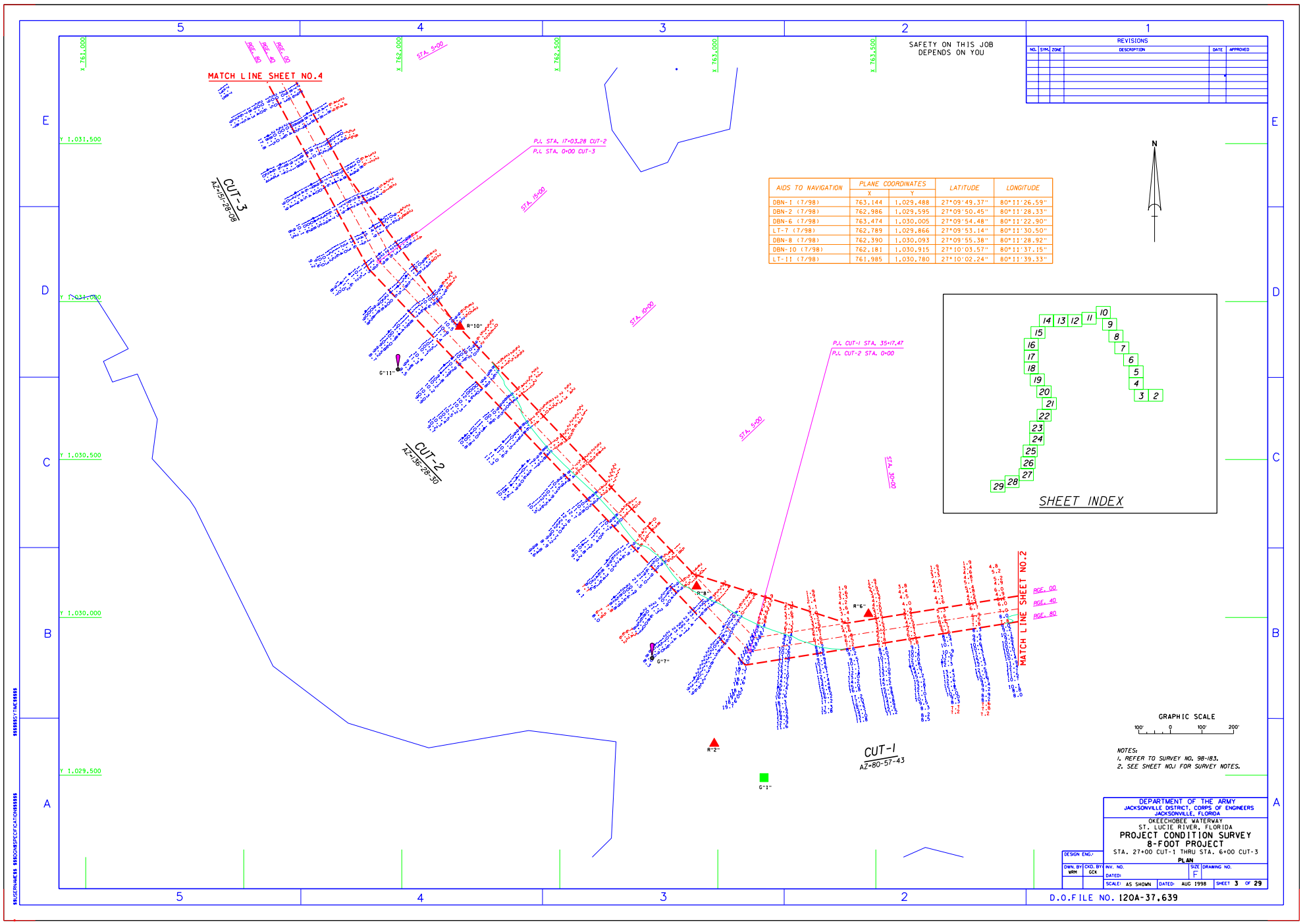

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-1 (7/98)	763,144	1,029,488	27°09'49.37"	80°11'26.59"
DBN-2 (7/98)	762,986	1,029,595	27°09'50.45"	80°11'28.33"
DBN-6 (7/98)	763,474	1,030,005	27°09'54.48"	80°11'22.90"
LT-7 (7/98)	762,789	1,029,866	27°09'53.14"	80°11'30.50"
DBN-8 (7/98)	762,390	1,030,093	27°09'55.38"	80°11'28.92"
DBN-10 (7/98)	762,181	1,030,915	27°10'03.57"	80°11'37.15"
LT-11 (7/98)	761,985	1,030,780	27°10'02.24"	80°11'39.33"

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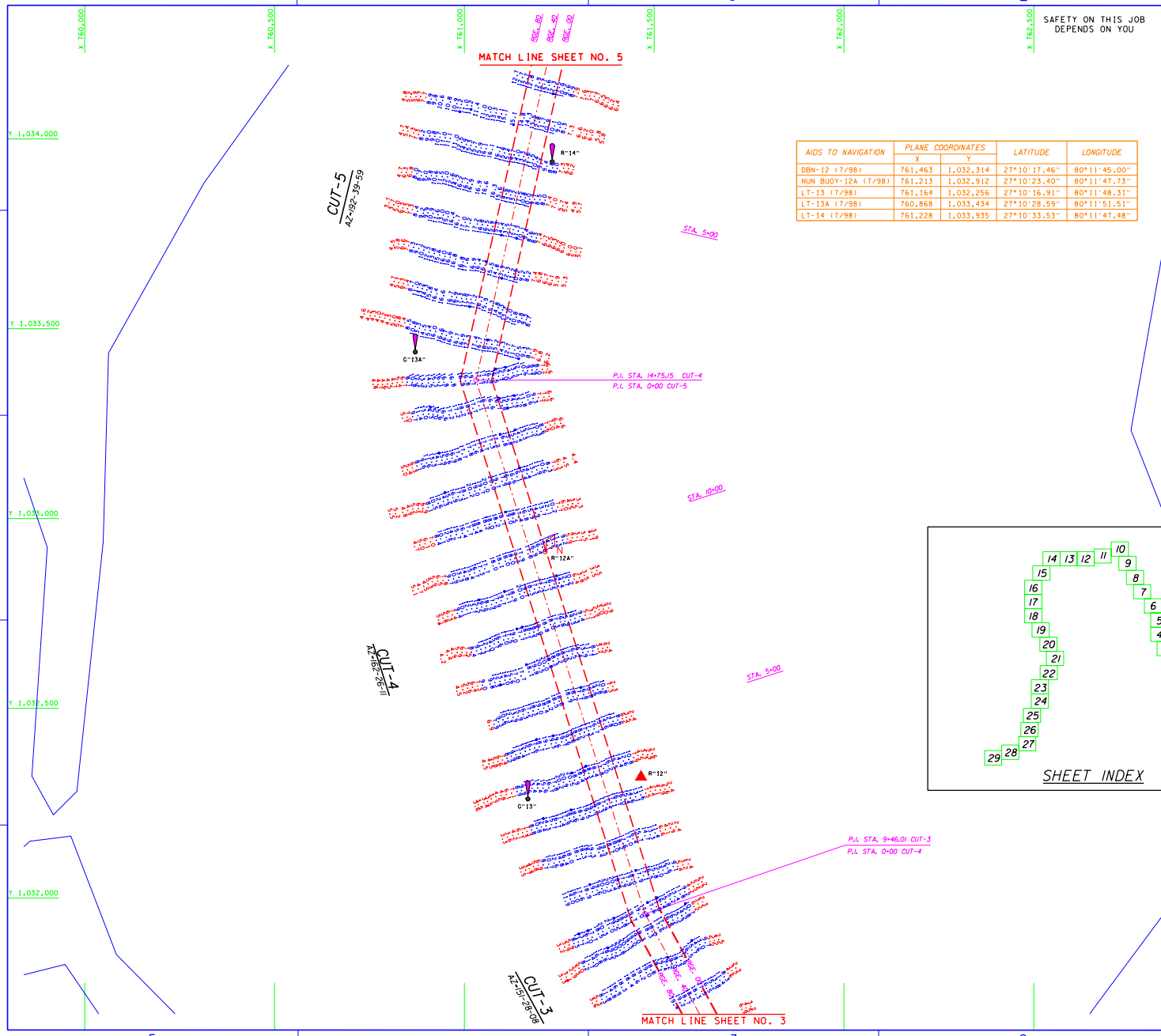
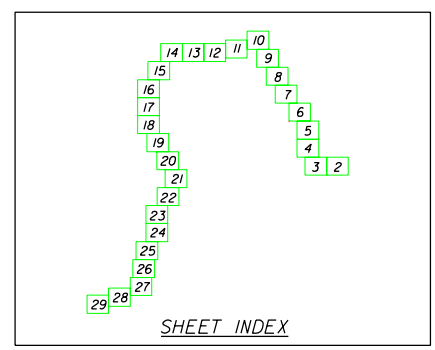


SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-12 (7/98)	761,463	1,032,314	27°10'17.46"	80°11'45.00"
NUN BUOY-12A (7/98)	761,213	1,032,912	27°10'23.40"	80°11'47.73"
LT-13 (7/98)	761,164	1,032,256	27°10'16.91"	80°11'48.31"
LT-13A (7/98)	760,868	1,033,434	27°10'28.59"	80°11'51.51"
LT-14 (7/98)	761,228	1,033,935	27°10'33.53"	80°11'47.48"



GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 6+00 CUT-3 THRU STA. 8+00 CUT-5
PLAN

DESIGN ENG.:
DWN. BY: WRM | CKD. BY: GCK | INV. NO. | SIZE: F | DRAWING NO.
DATED:
SCALE: AS SHOWN | DATED: AUG 1998 | SHEET 4 OF 29

D.O.FILE NO. 120A-37,639

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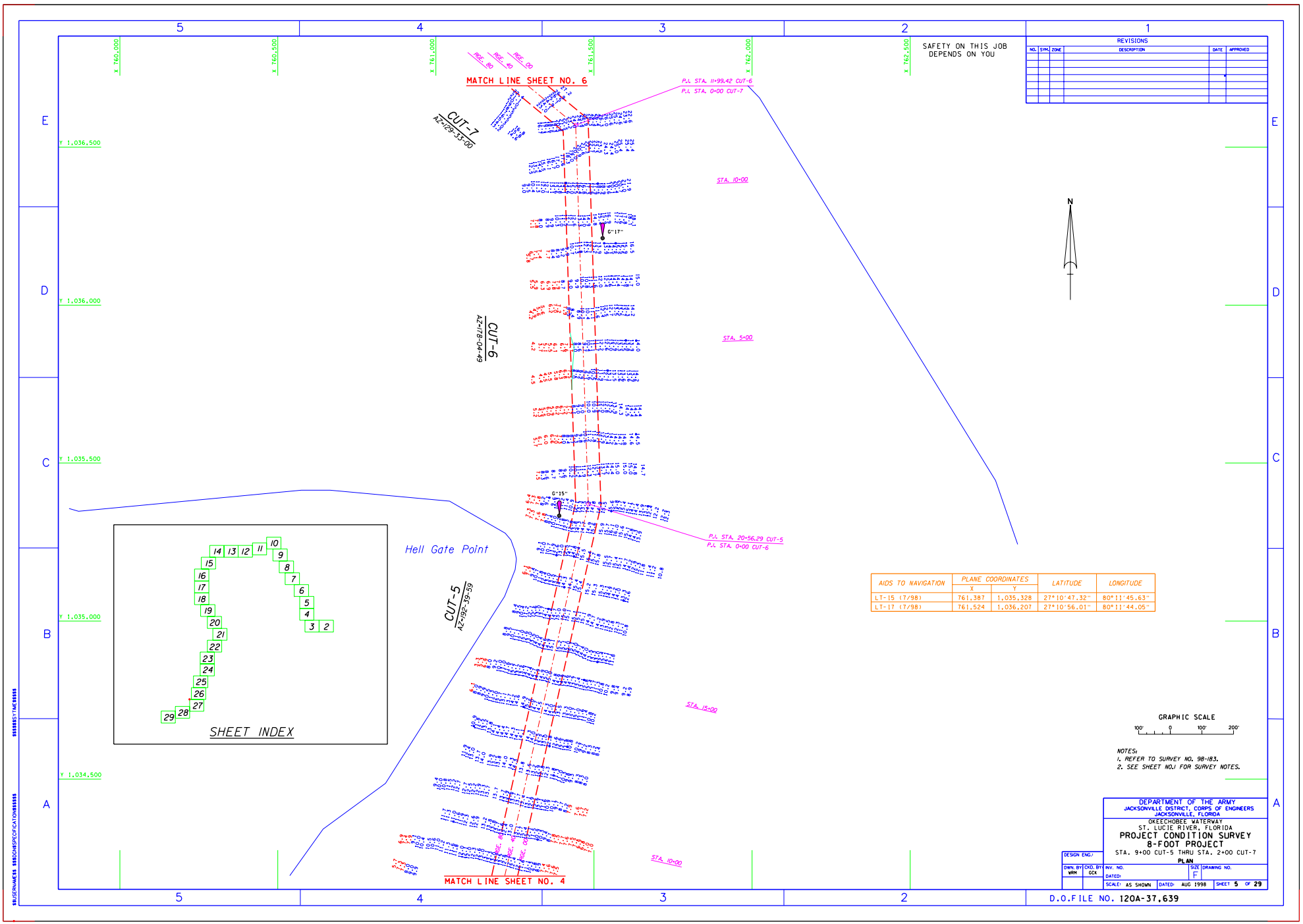

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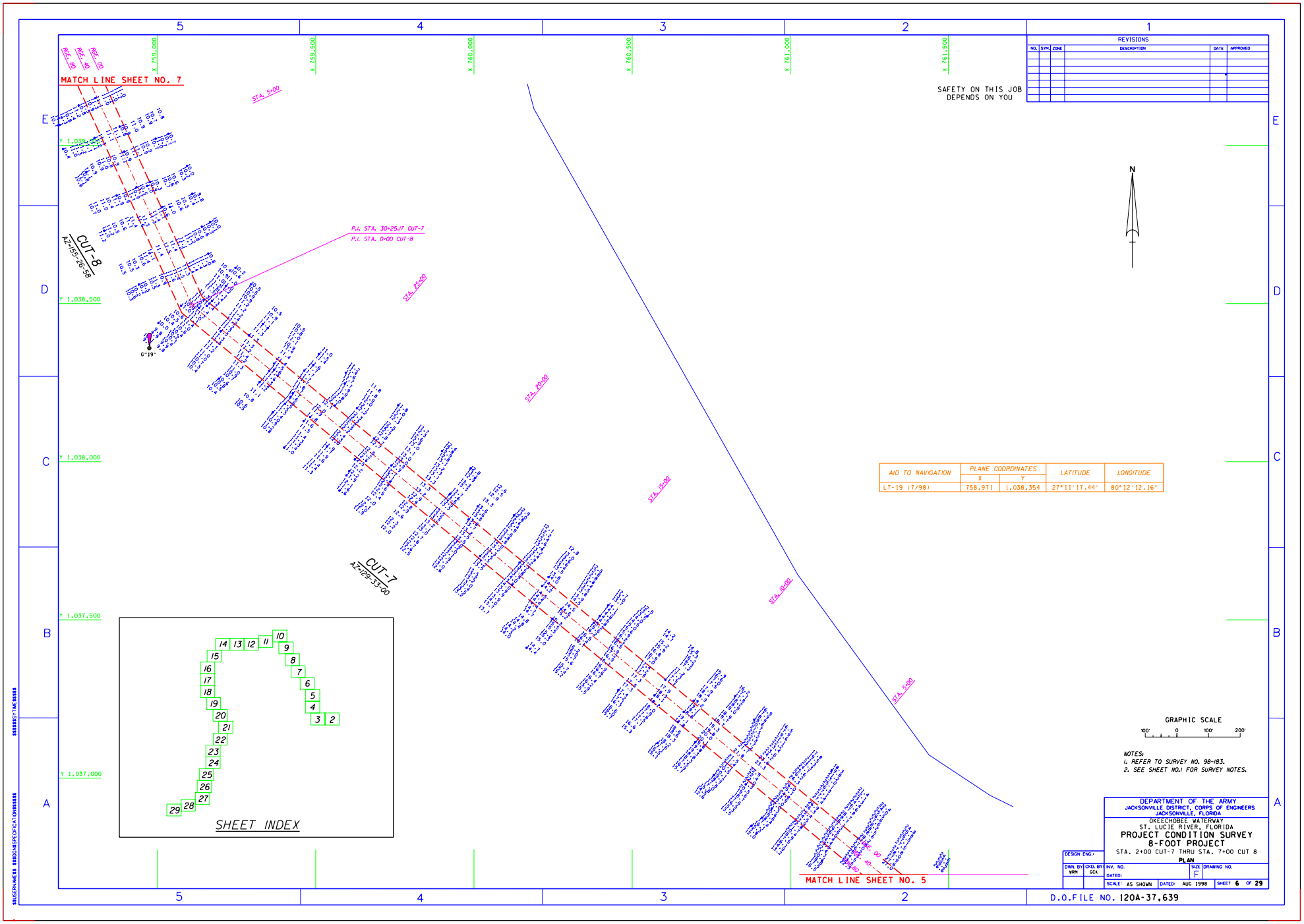

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SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

MATCH LINE SHEET NO.8

MATCH LINE SHEET NO. 6

CUT-8
AZ 155°26'58"

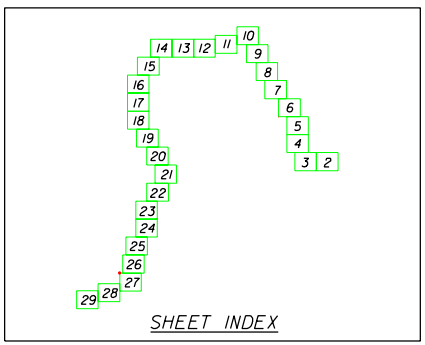
STA. 35+00
STA. 30+00
STA. 25+00
STA. 20+00
STA. 15+00
STA. 10+00

X 757,000
X 758,000
X 758,500
X 759,000
X 759,500

Y 1,041,500
Y 1,041,000
Y 1,040,500
Y 1,040,000
Y 1,039,500

N

SHEET INDEX



GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 8+00 THRU STA. 35+00 CUT-8
PLAN

DESIGN ENG.:				
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		SCALE: AS SHOWN	DATED: AUG 1998	SHEET 7 OF 29

D.O.FILE NO. 120A-37,639

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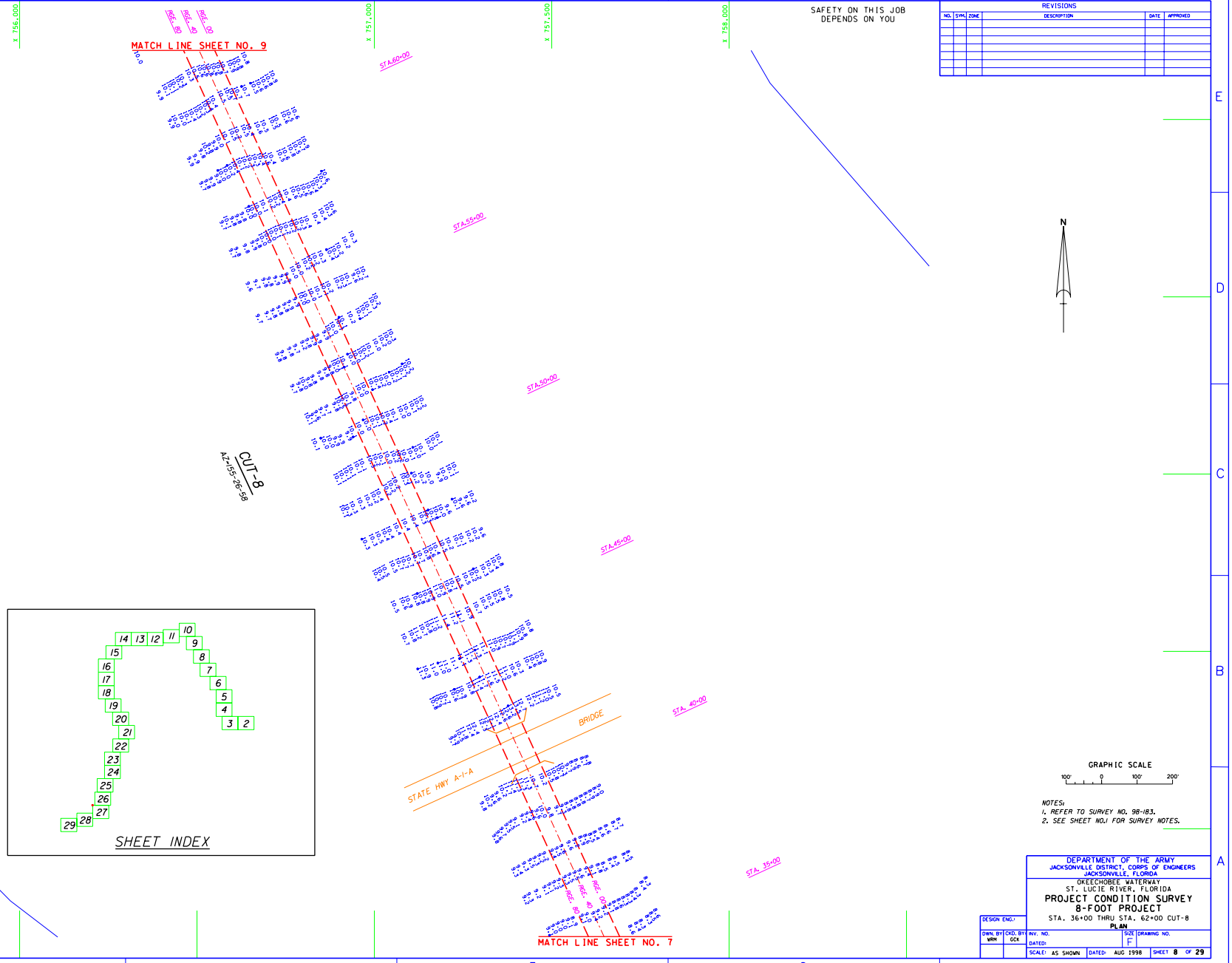

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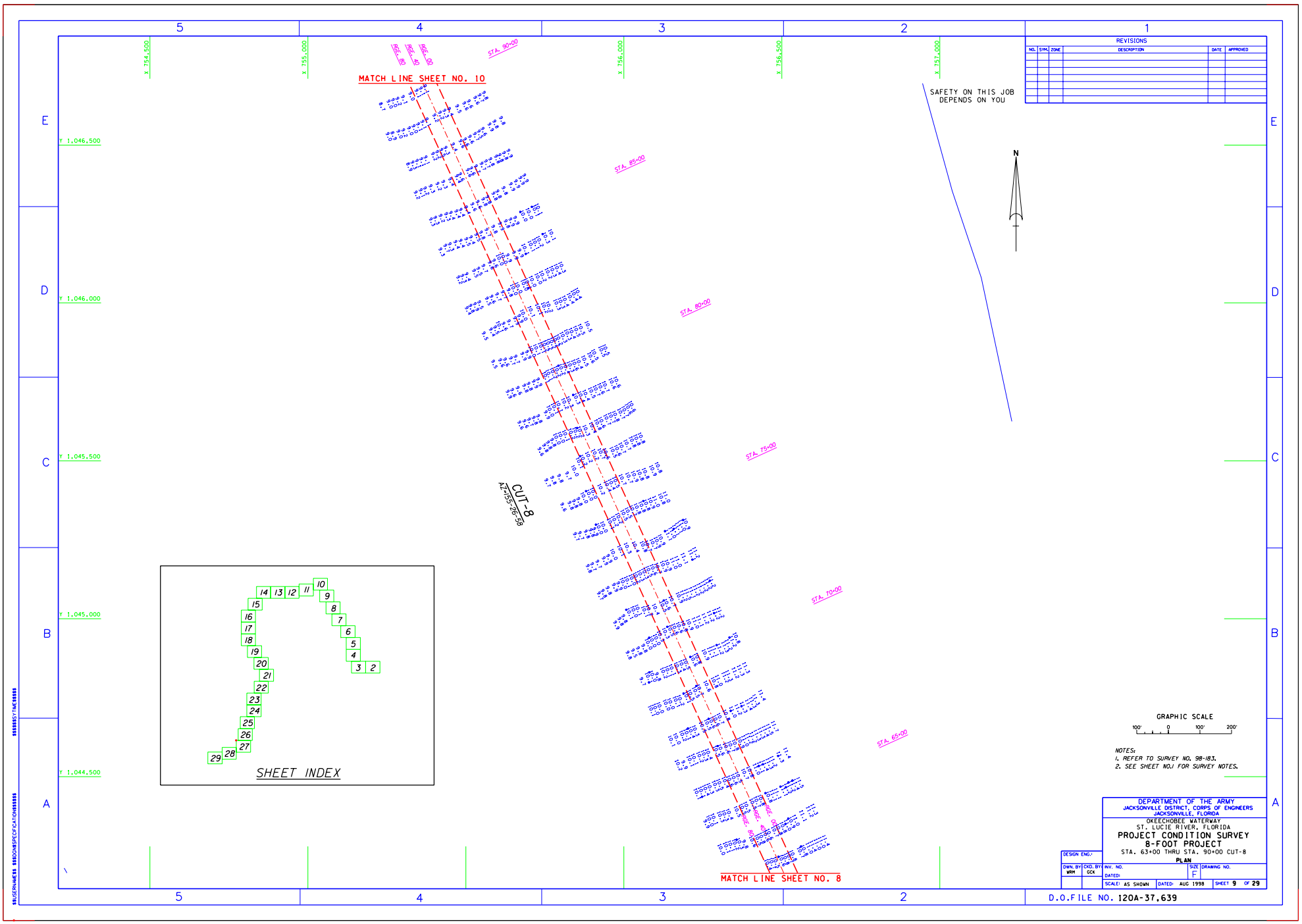

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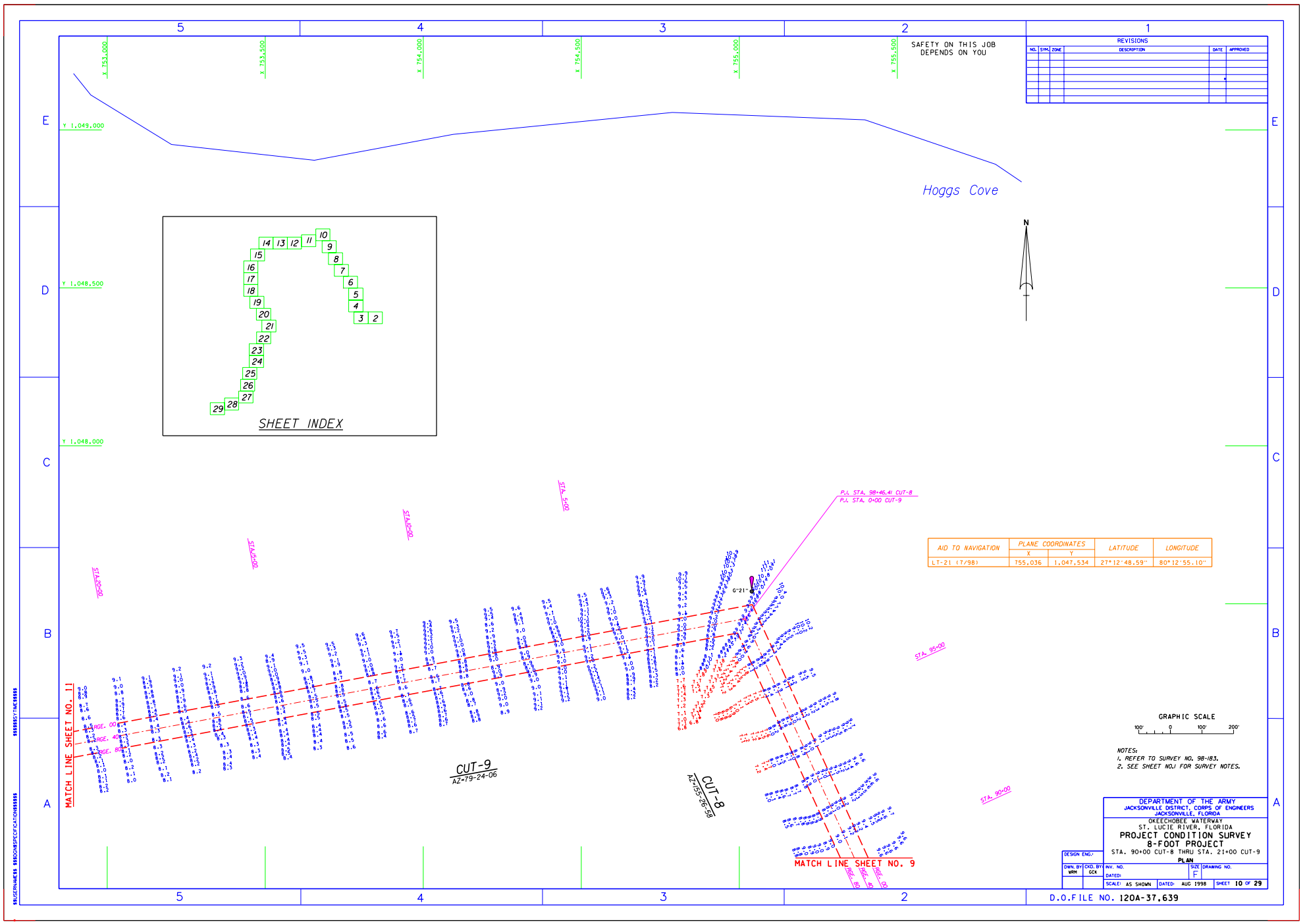

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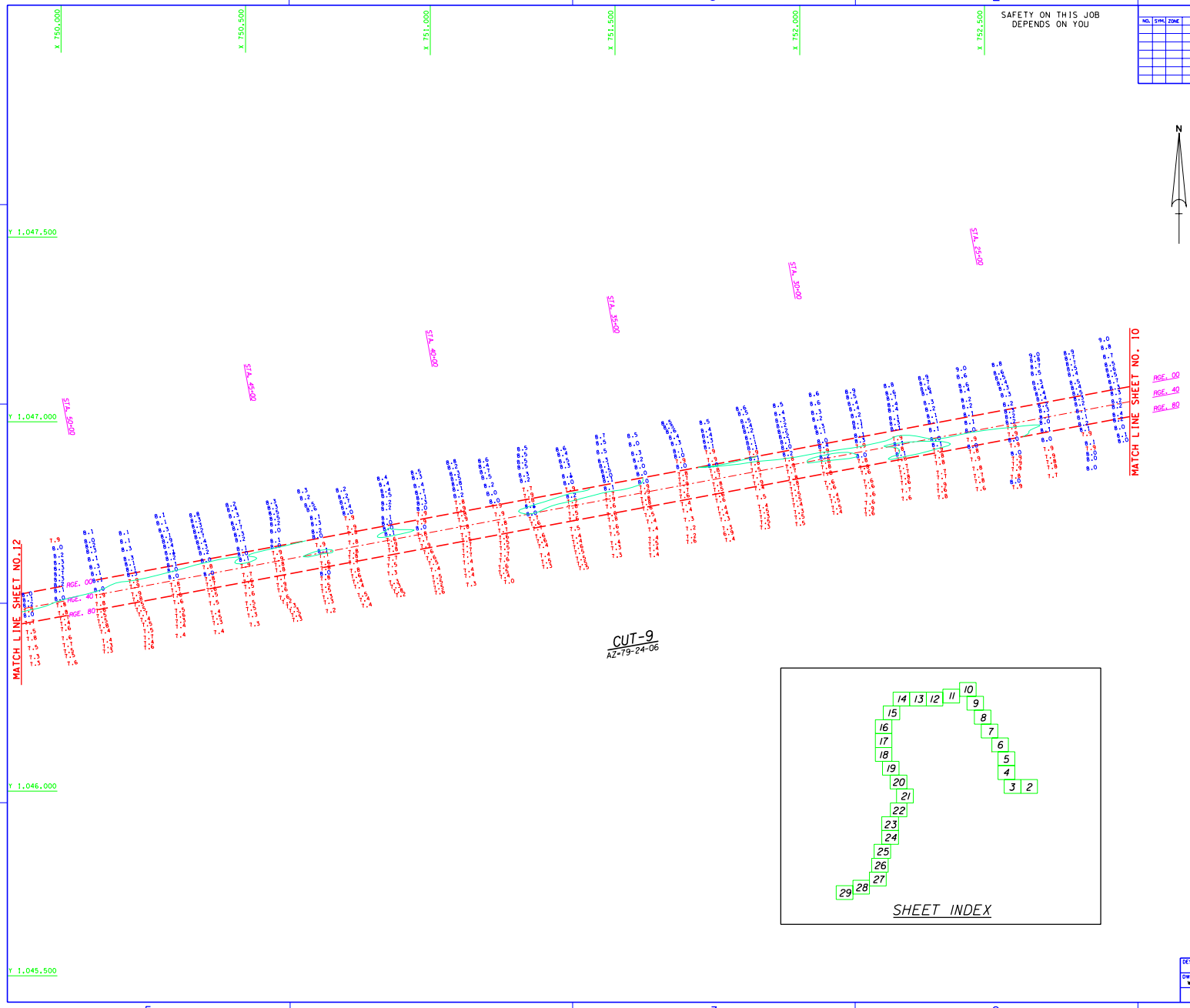

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 22+00 THRU STA. 52+00 CUT-9

PLAN

DESIGN ENG.:			
DWN. BY: WRM	CKD. BY: GCK	INV. NO.	SIZE: F / DRAWING NO.
		DATED:	
		SCALE: AS SHOWN	DATED: AUG 1998 / SHEET 11 OF 29

D.O.FILE NO. 120A-37,639

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SAFETY ON THIS JOB
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NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

X 747,000 X 747,500 X 748,000 X 748,500 X 749,000 X 749,500

Y 1,047,000
Y 1,046,500
Y 1,045,500

STA 80+00 STA 75+00 STA 70+00 STA 65+00 STA 60+00 STA 55+00

MATCH LINE SHEET NO.13

MATCH LINE SHEET NO.11

AGE. 00 AGE. 40 AGE. 80

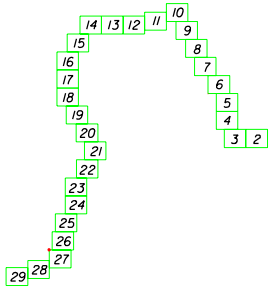
CUT-9
AZ-79-24-06

N

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

SHEET INDEX



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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 53+00 THRU STA. 82+00 CUT-9
PLAN

DESIGN ENG.:				
DWN. BY: WRM	CKD. BY: GCK	INV. NO.	SIZE: F	DRAWING NO.
		DATED:		
		SCALE: AS SHOWN	DATED: AUG 1998	SHEET 12 OF 29

D.O.FILE NO. 120A-37.639

$$USERNAME$$ $$DOMNSPECIFICATION$$$$$ $$$$$SYTIME$$$$$

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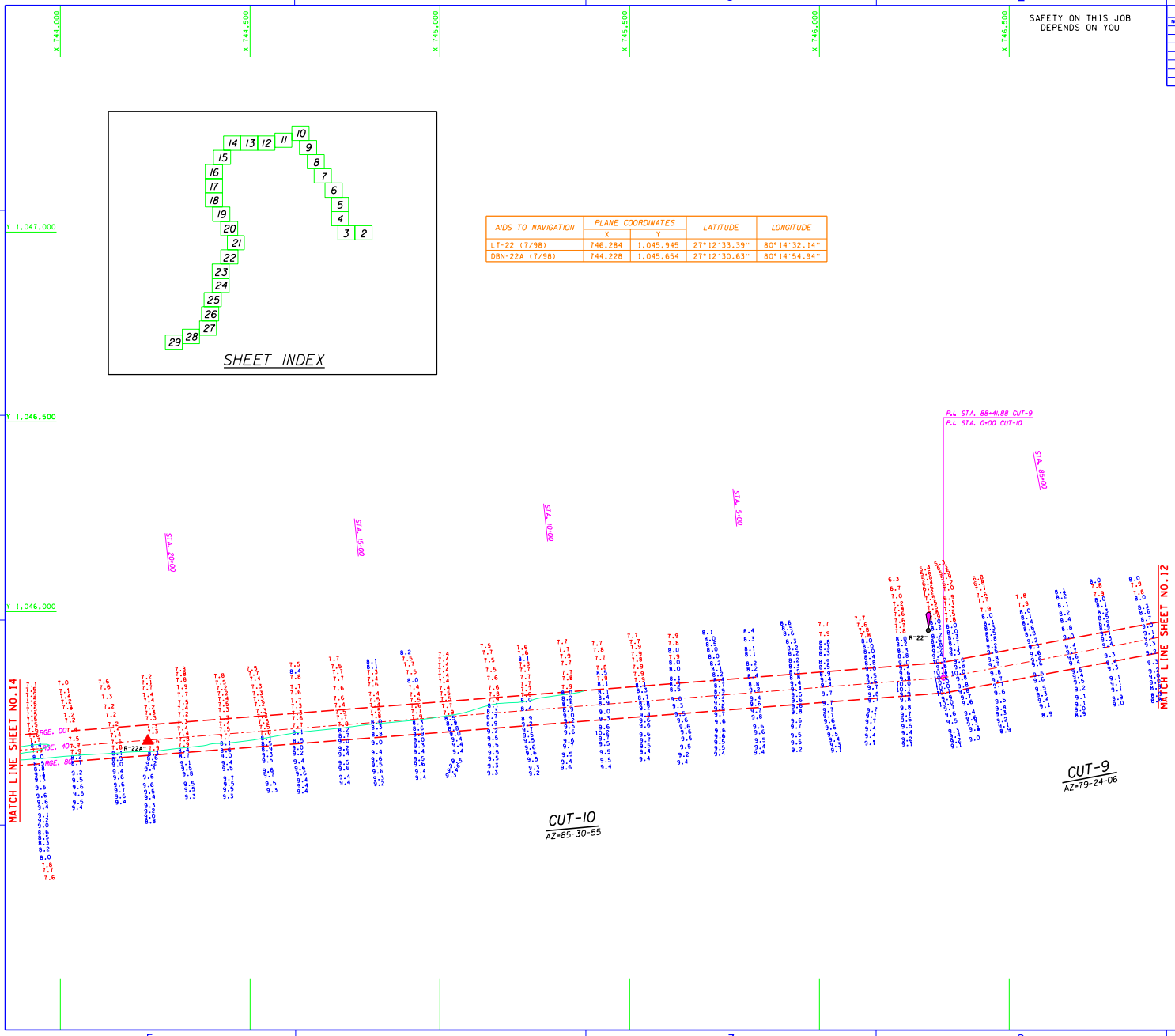
SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-22 (7/98)	746,284	1,045,945	27°12'33.39"	80°14'32.14"
DBN-22A (7/98)	744,228	1,045,654	27°12'30.63"	80°14'54.94"



GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT

STA. 83+00 CUT-9 THRU STA. 24+00 CUT-10

PLAN

DESIGN ENG.:			
DWN. BY: WRM	CKD. BY: GCK	INV. NO.	SIZE: F
		DATED:	DRAWING NO.
		SCALE: AS SHOWN	DATED: AUG 1998
			SHEET 13 OF 29

D.O.FILE NO. 120A-37,639

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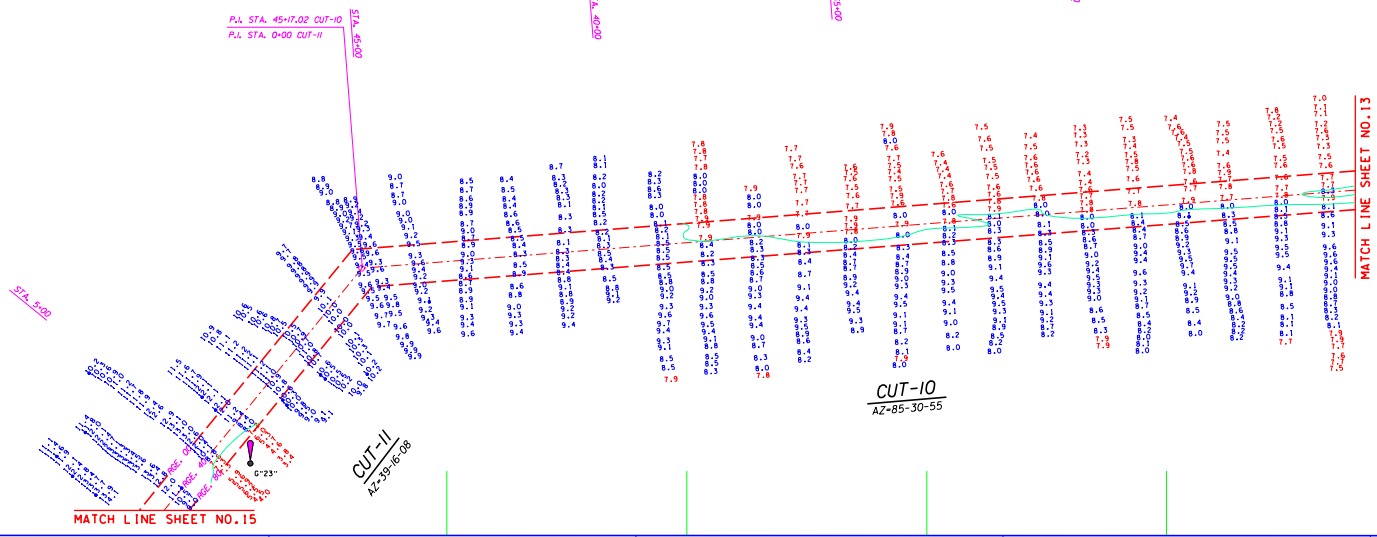
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT-23 (7/98)	741,588	1,045,060	27°12'24.90"	80°15'24.21"



GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 25+00 CUT-10 THRU STA. 6+00 CUT-11
PLAN

DESIGN ENG.:					
DWN. BY: WRM	CKD. BY: GCK	INV. NO.	SIZE: F	DRAWING NO.	
		DATED:			
		SCALE: AS SHOWN	DATED: AUG 1998	SHEET 14 OF 29	

D.O.FILE NO. 120A-37,639

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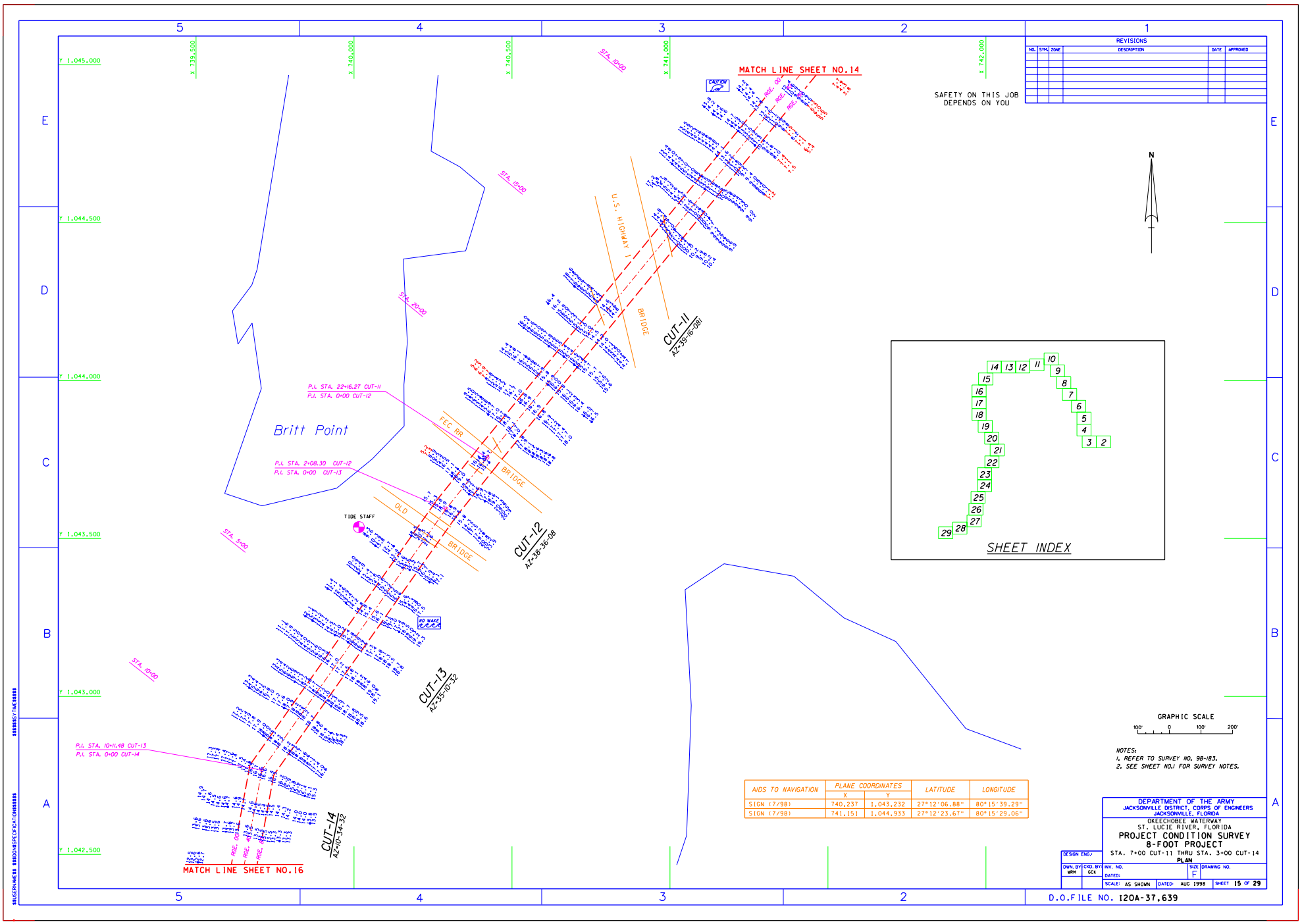

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
SIGN (7/98)	740,237	1,043,232	27°12'06.88"	80°15'39.29"
SIGN (7/98)	741,151	1,044,933	27°12'23.67"	80°15'29.06"

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 7+00 CUT-11 THRU STA. 3+00 CUT-14
PLAN

DESIGN ENG.:
DWN. BY: WPM | CKD. BY: GCK | INV. NO. | SIZE: F | DRAWING NO.
DATED:
SCALE: AS SHOWN | DATED: AUG 1998 | SHEET 15 OF 29

D.O.FILE NO. 120A-37,639

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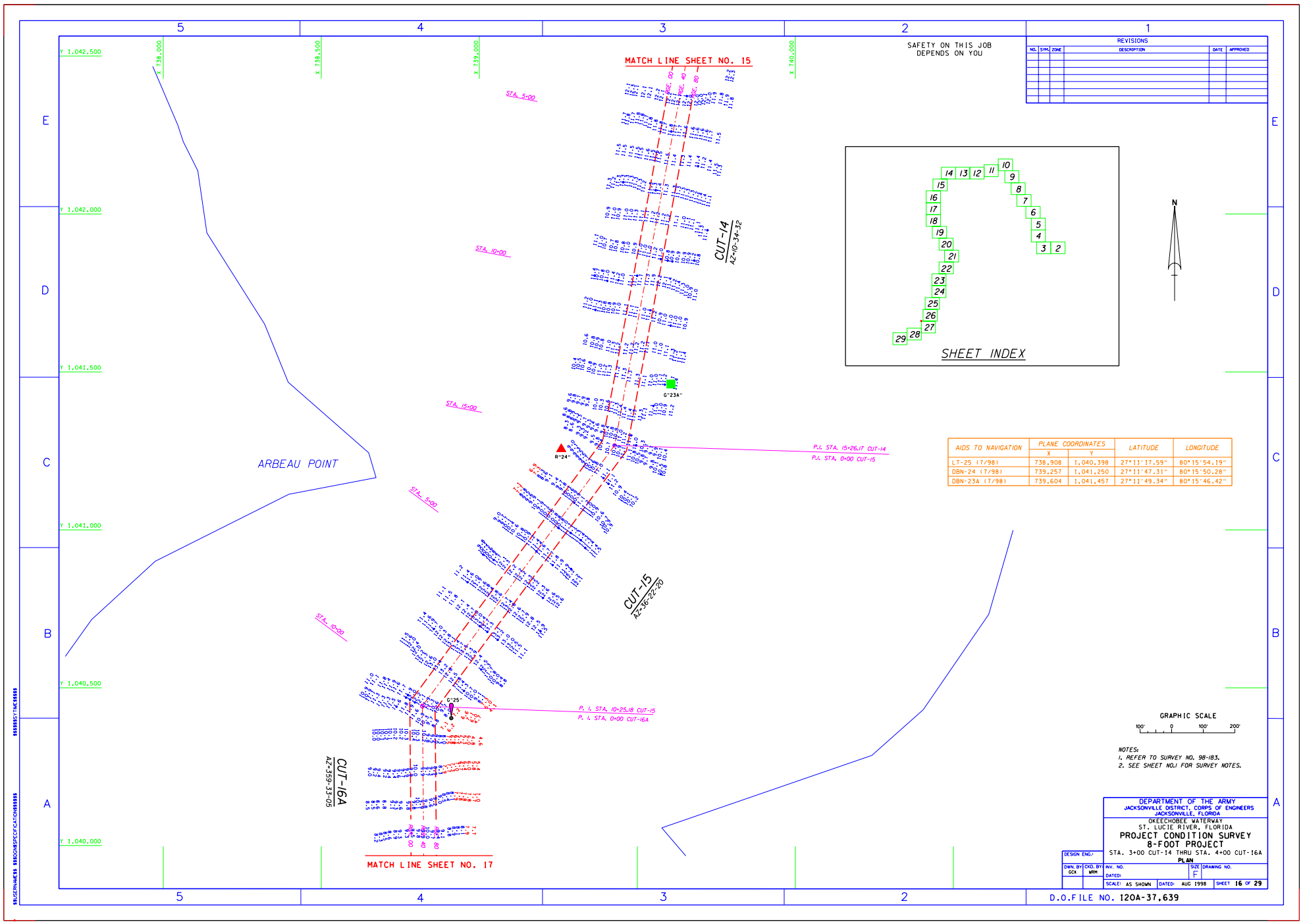

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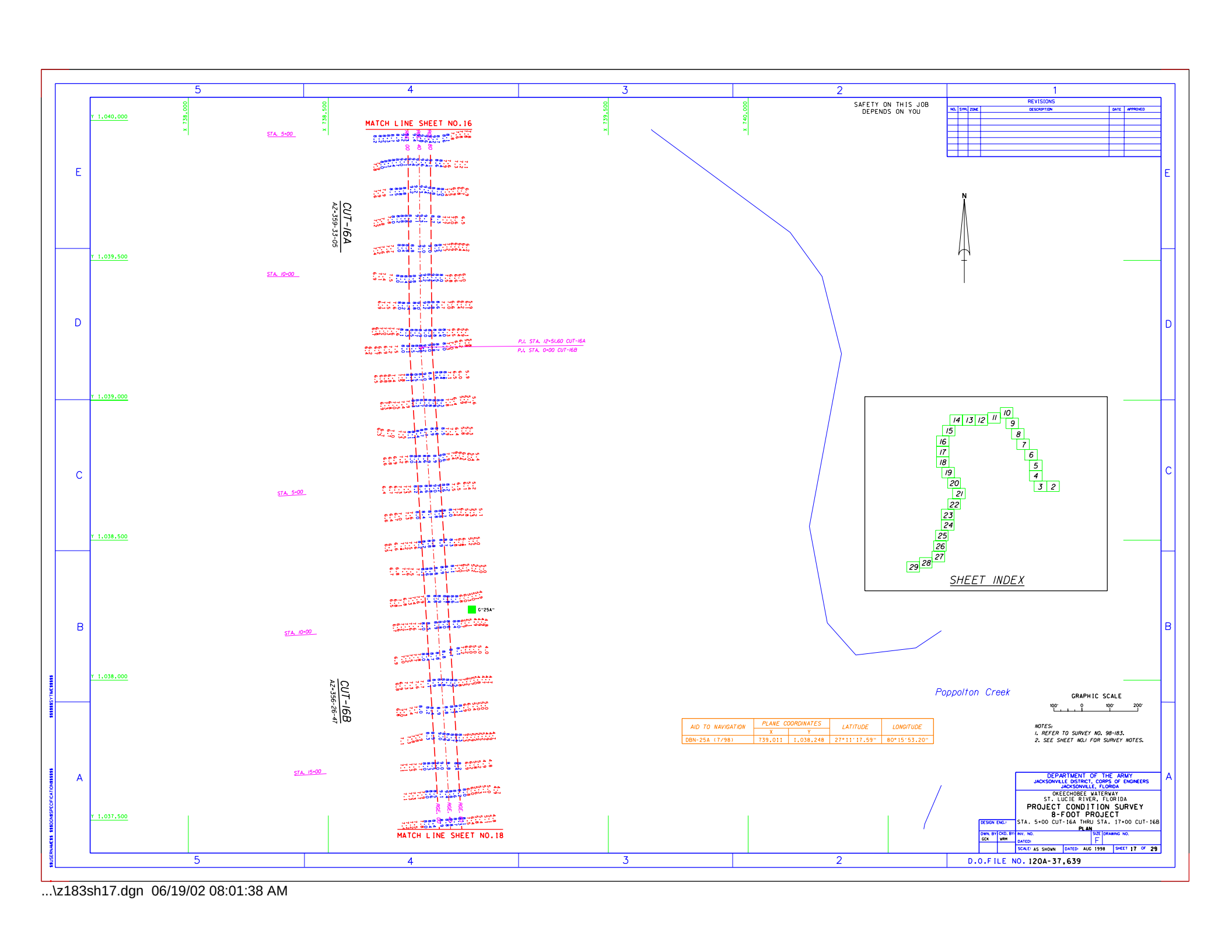

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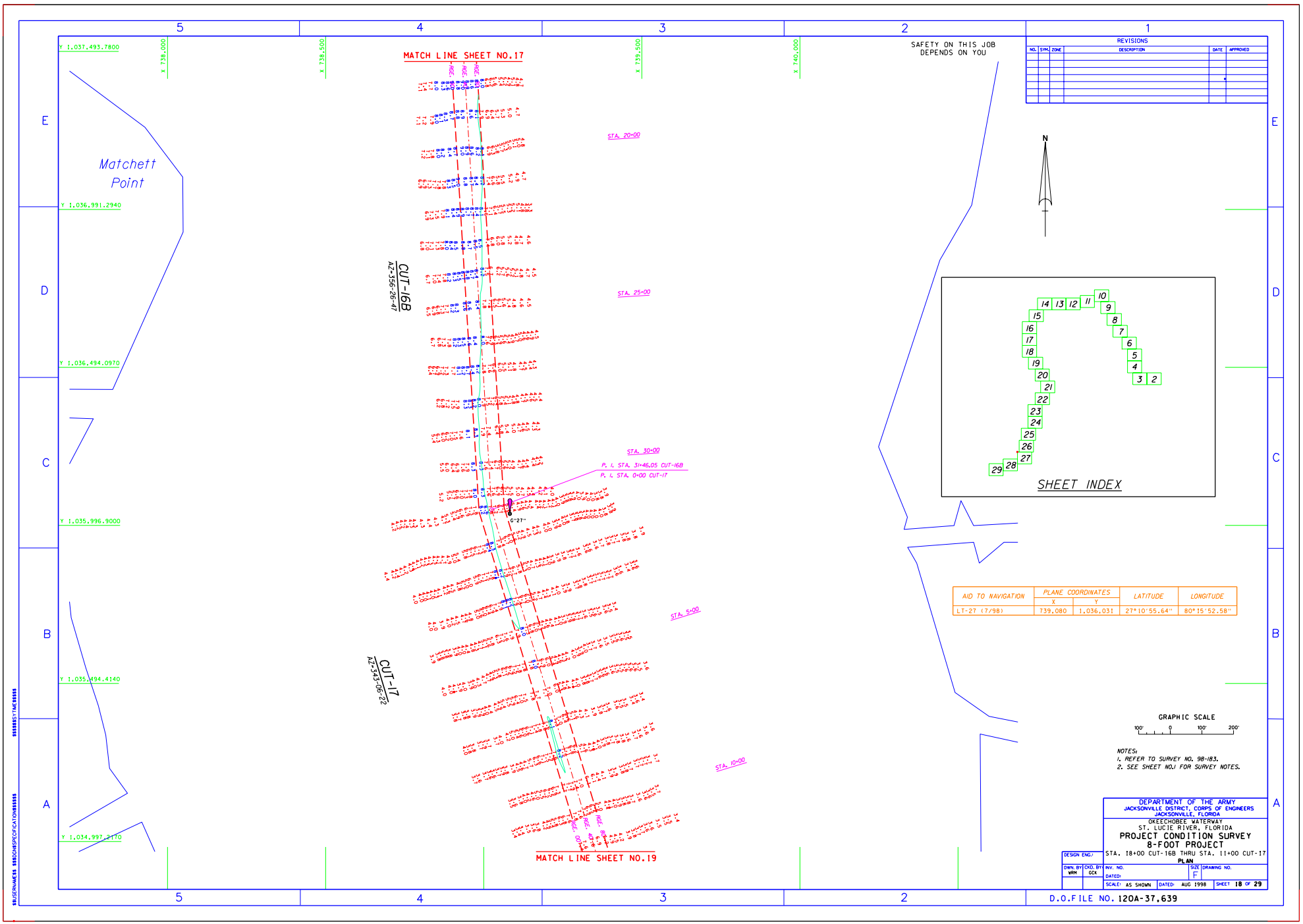

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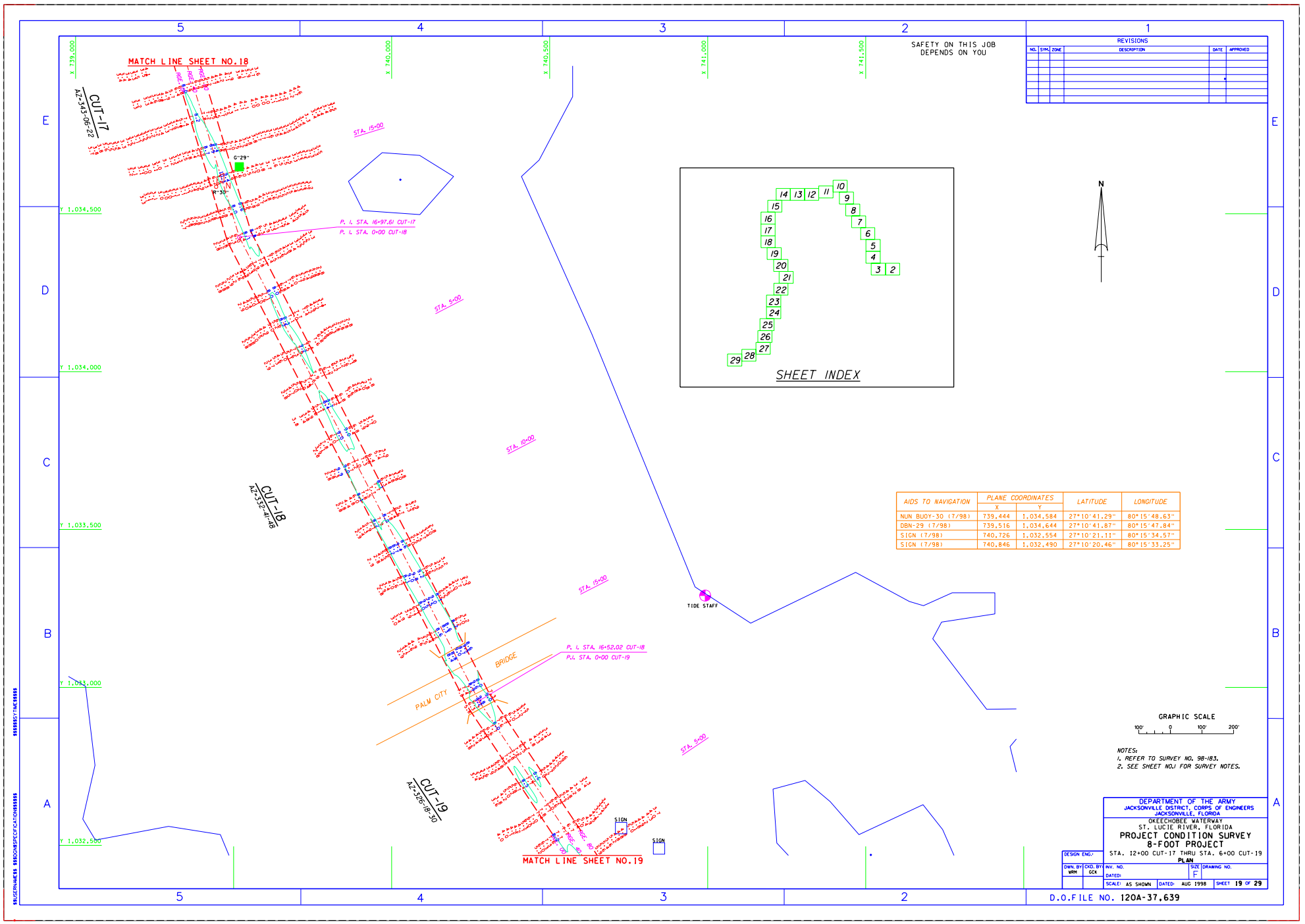

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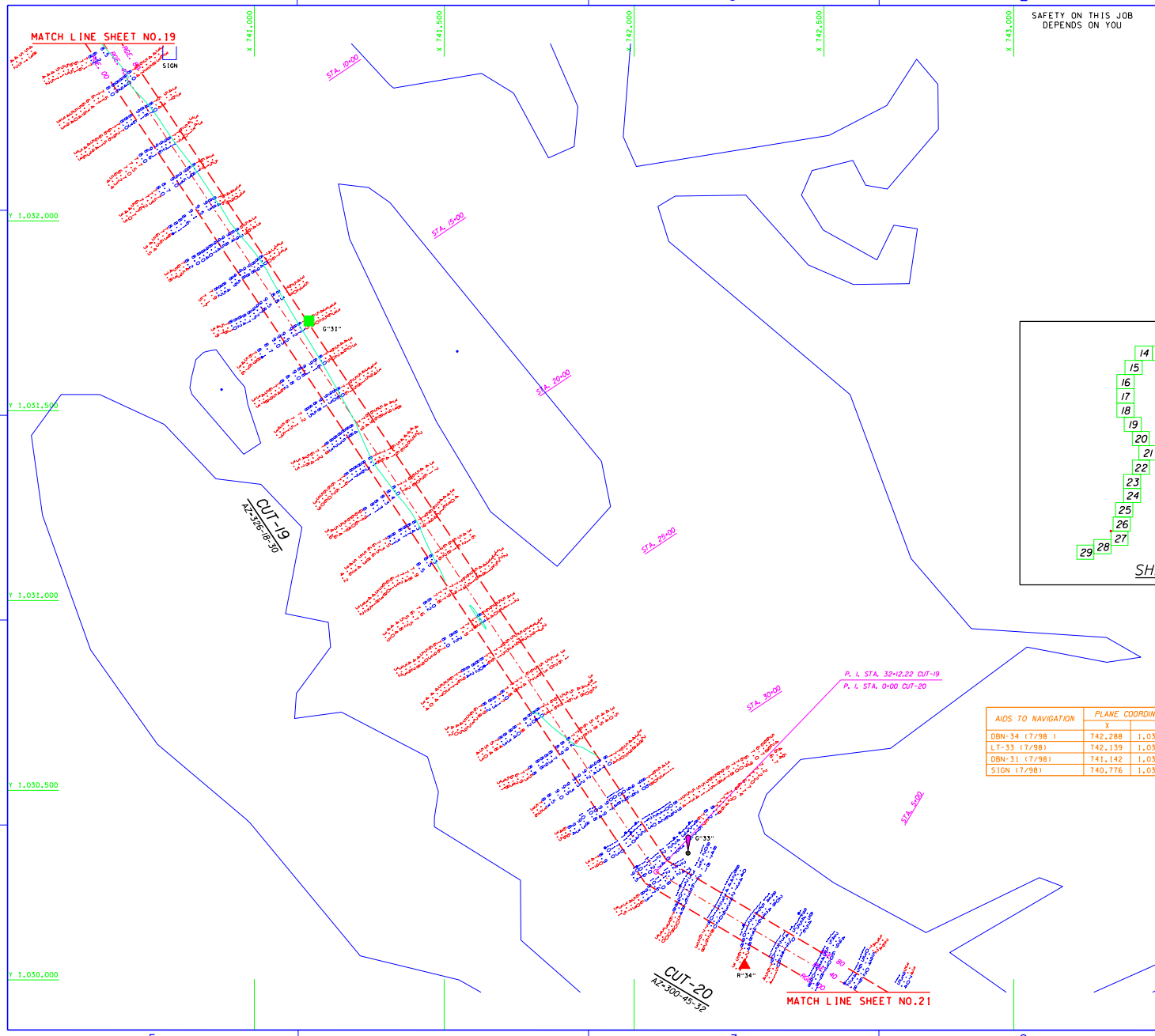
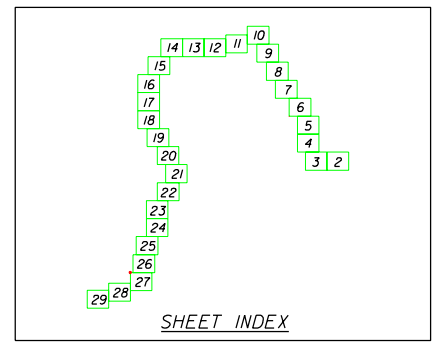


SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-34 (7/98)	742,288	1,030,034	27°09'56.06"	80°15'17.44"
LT-33 (7/98)	742,139	1,030,329	27°09'58.99"	80°15'19.07"
DBN-31 (7/98)	741,142	1,031,732	27°10'12.94"	80°15'30.03"
SIGN (7/98)	740,776	1,0322,443	27°10'20.00"	80°15'34.02"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT

STA. 6+00 CUT-19 THRU STA. 6+00 CUT-20

PLAN

DESIGN ENG.:
DWN. BY: WRM
CKD. BY: GCK
INV. NO.
DATED:
SIZE: F
DRAWING NO.
SCALE: AS SHOWN
DATED: AUG 1998
SHEET 20 OF 29

D.O.FILE NO. 120A-37,639

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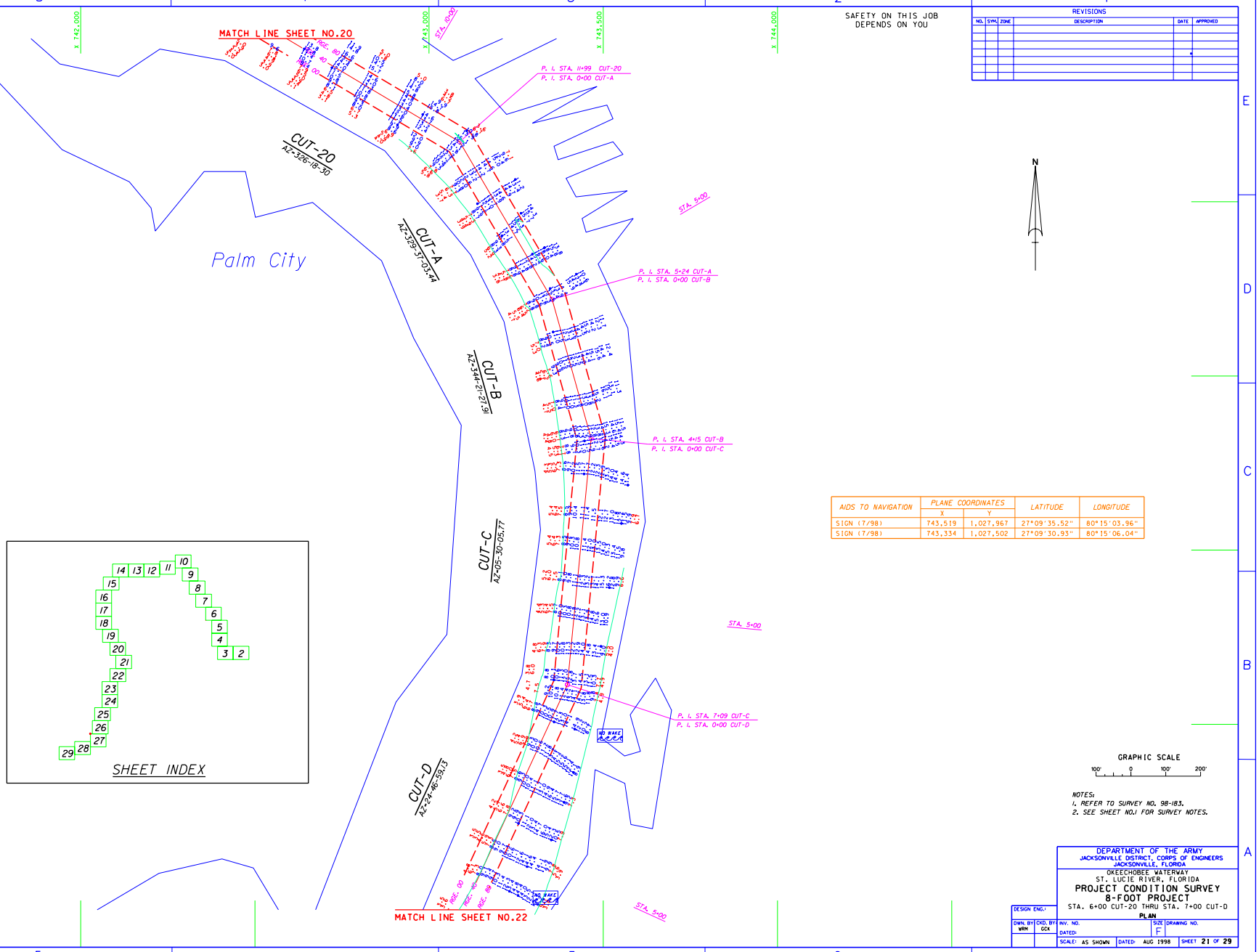

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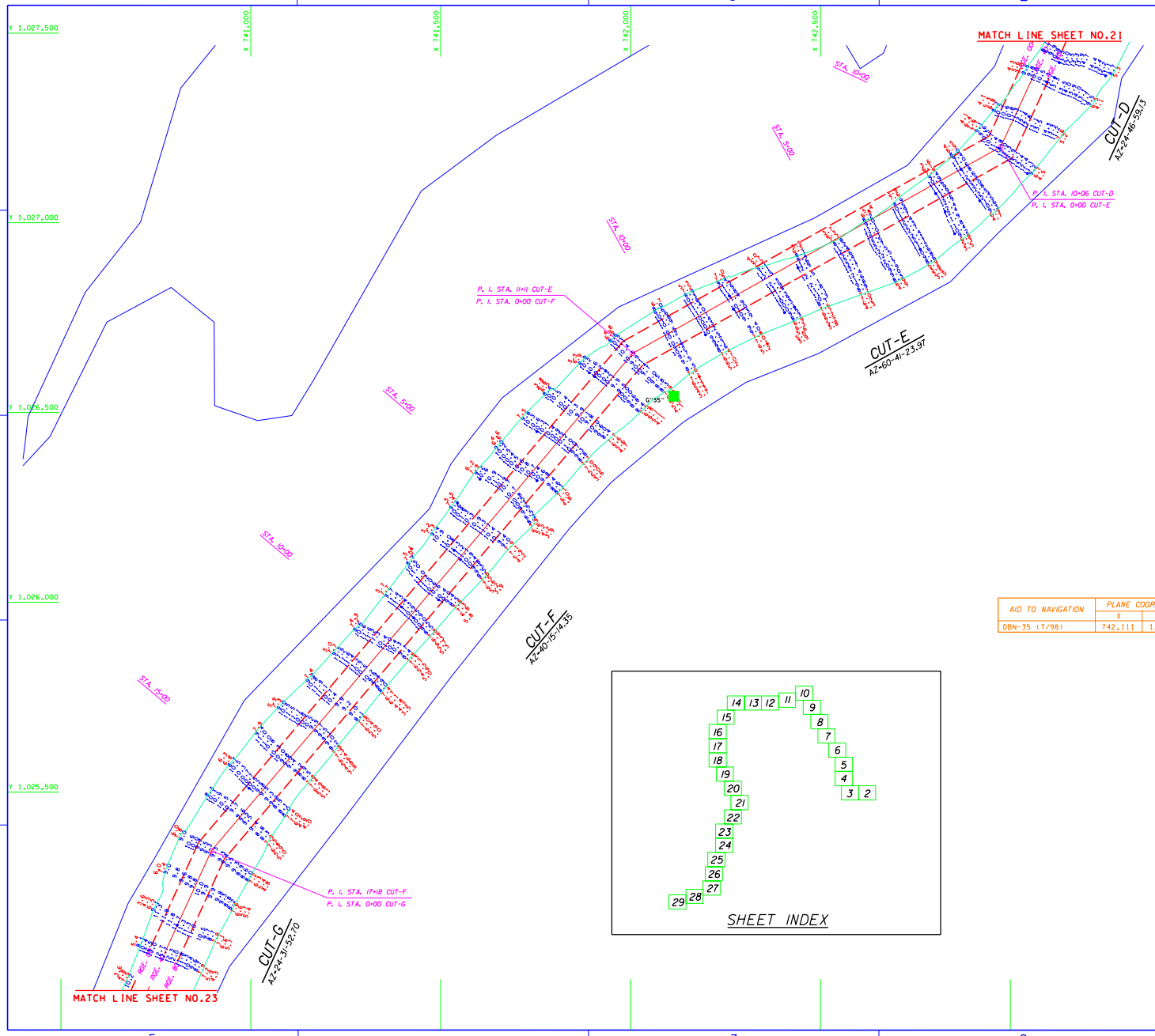

AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-35 (7/98)	742,111	1,026,539	27°09'21.45"	80°15'19.63"

REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SAFETY ON THIS JOB DEPENDS ON YOU

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 7+00 CUT-D THRU STA. 4+00 CUT-G

PLAN

DESIGN ENG.:
DWN. BY: WRM | CKD. BY: GCK | INV. NO. | SIZE: F | DRAWING NO.
DATED:
SCALE: AS SHOWN | DATED: AUG 1998 | SHEET 22 OF 29

D.O.FILE NO. 120A-37,639

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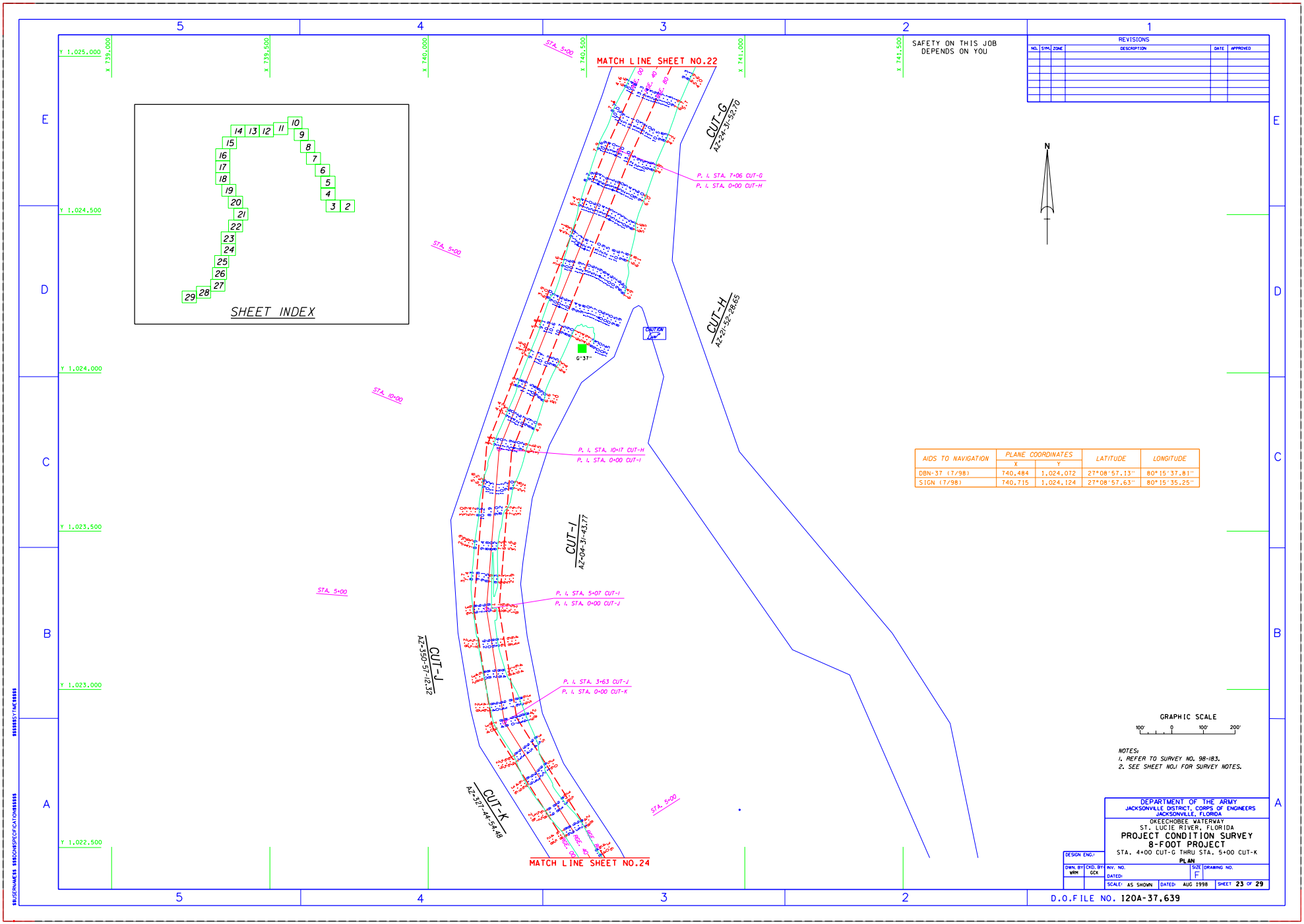

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-37 (7/98)	740,484	1,024,072	27°08'57.13"	80°15'37.81"
SIGN (7/98)	740,715	1,024,124	27°08'57.63"	80°15'35.25"

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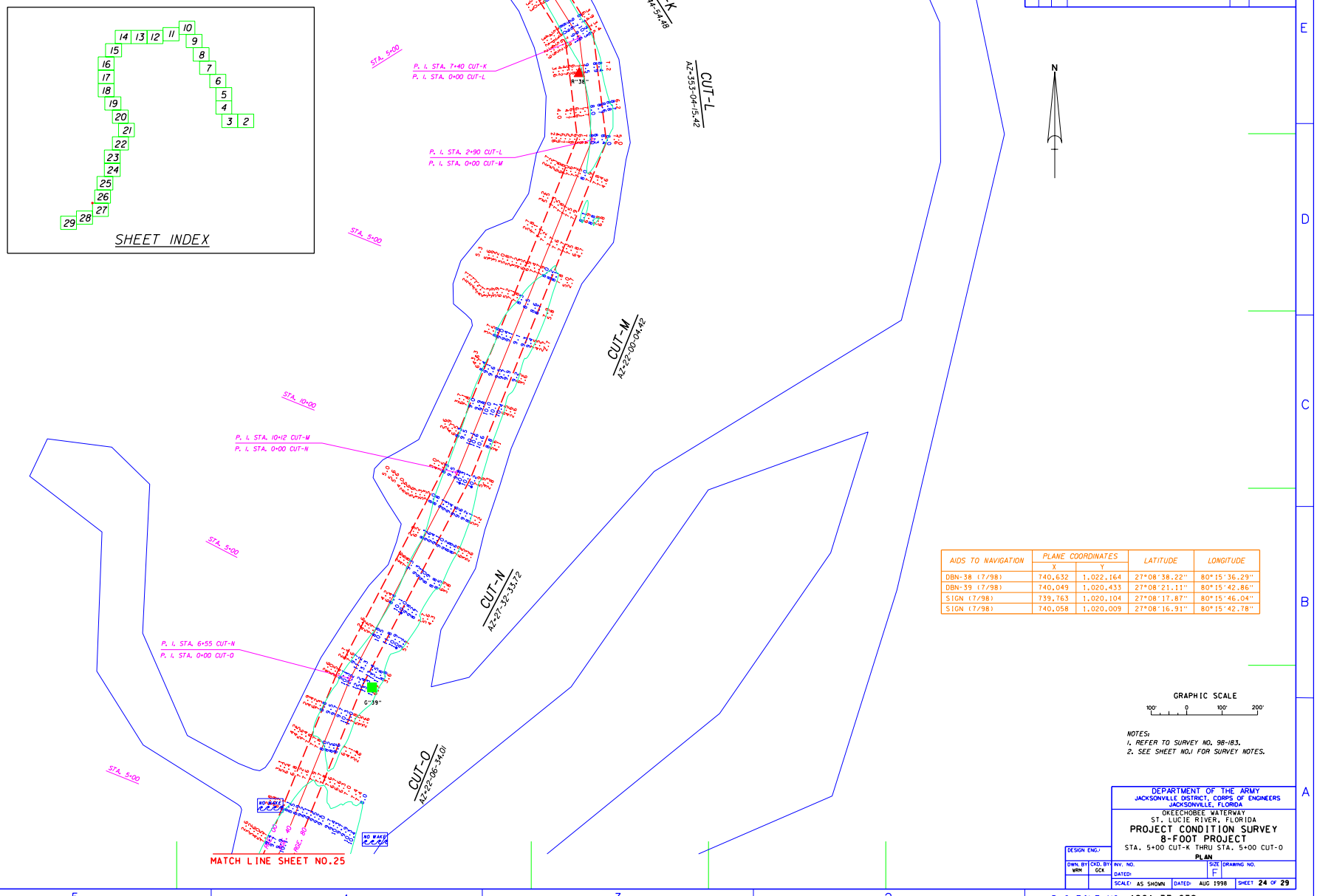

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-38 (7/98)	740,632	1,022,164	27°08'38.22"	80°15'36.29"
DBN-39 (7/98)	740,049	1,020,433	27°08'21.11"	80°15'42.86"
SIGN (7/98)	739,763	1,020,104	27°08'17.87"	80°15'46.04"
SIGN (7/98)	740,058	1,020,009	27°08'16.91"	80°15'42.78"

GRAPHIC SCALE
100' 0 100' 200'

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

REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA
PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 5+00 CUT-K THRU STA. 5+00 CUT-O
PLAN

DESIGN ENG.:
DWN. BY: WRM | CKD. BY: GCK | INV. NO. | SIZE: F | DRAWING NO.
DATED:
SCALE: AS SHOWN | DATED: AUG 1998 | SHEET 24 OF 29

D.O.FILE NO. 120A-37,639

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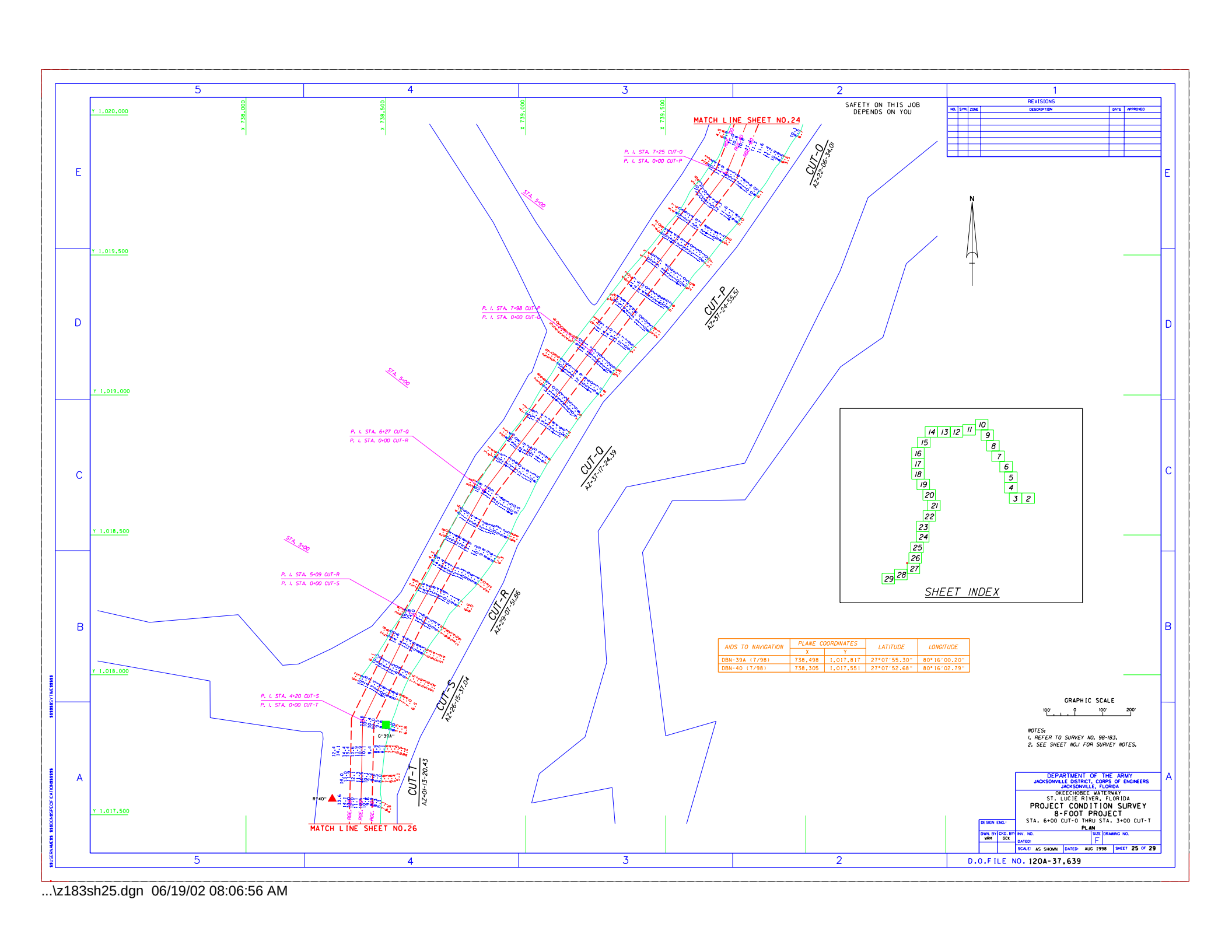

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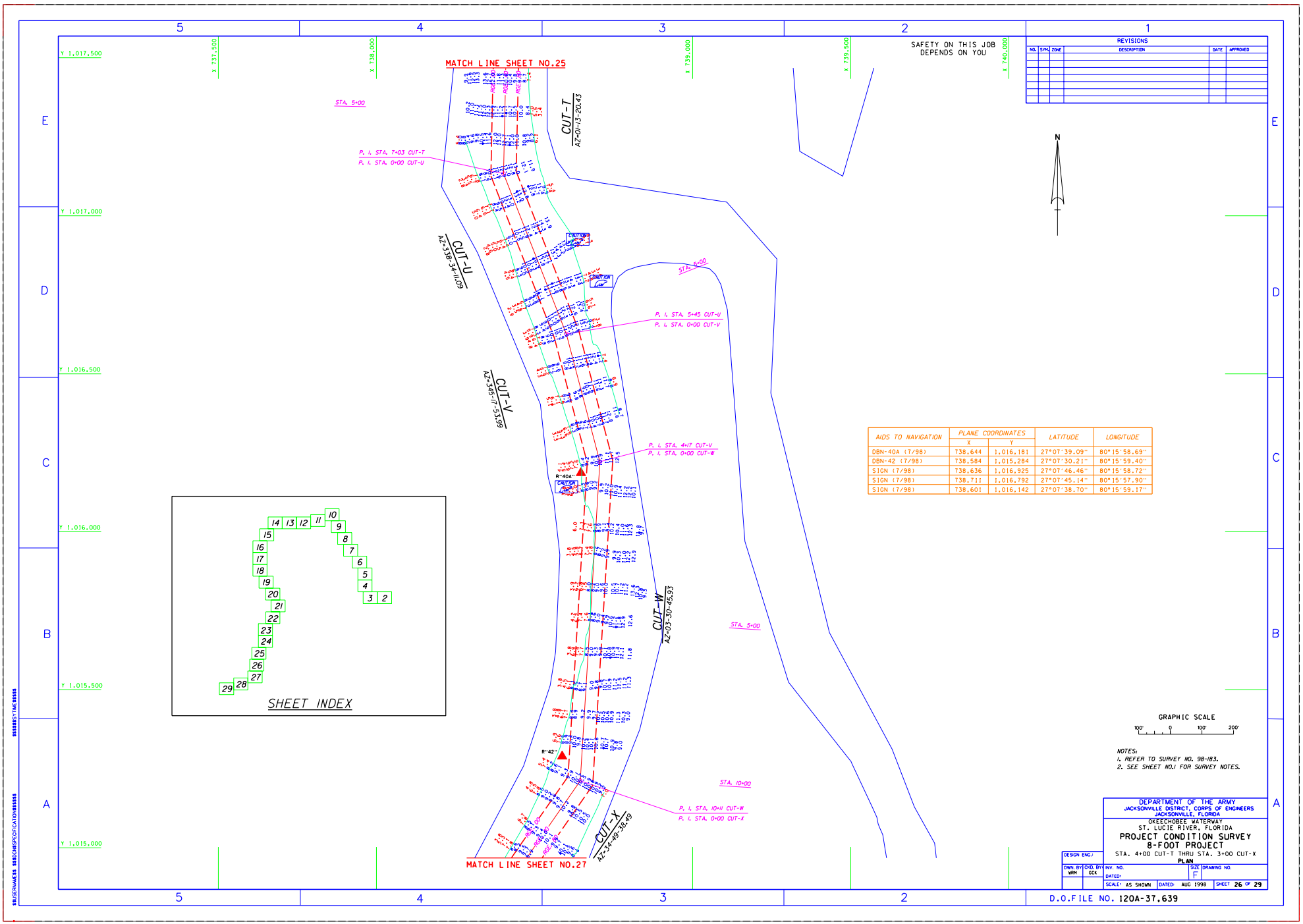

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-40A (7/98)	738,644	1,016,181	27°07'39.09"	80°15'58.69"
DBN-42 (7/98)	738,584	1,015,284	27°07'30.21"	80°15'59.40"
SIGN (7/98)	738,636	1,016,925	27°07'46.46"	80°15'58.72"
SIGN (7/98)	738,711	1,016,792	27°07'45.14"	80°15'57.90"
SIGN (7/98)	738,601	1,016,142	27°07'38.70"	80°15'59.17"

DESIGN ENG.:			
DWN. BY WRM	CKD. BY GCK	INV. NO.	SIZE F
		DATED:	DRAWING NO.
		SCALE: AS SHOWN	DATED: AUG 1998

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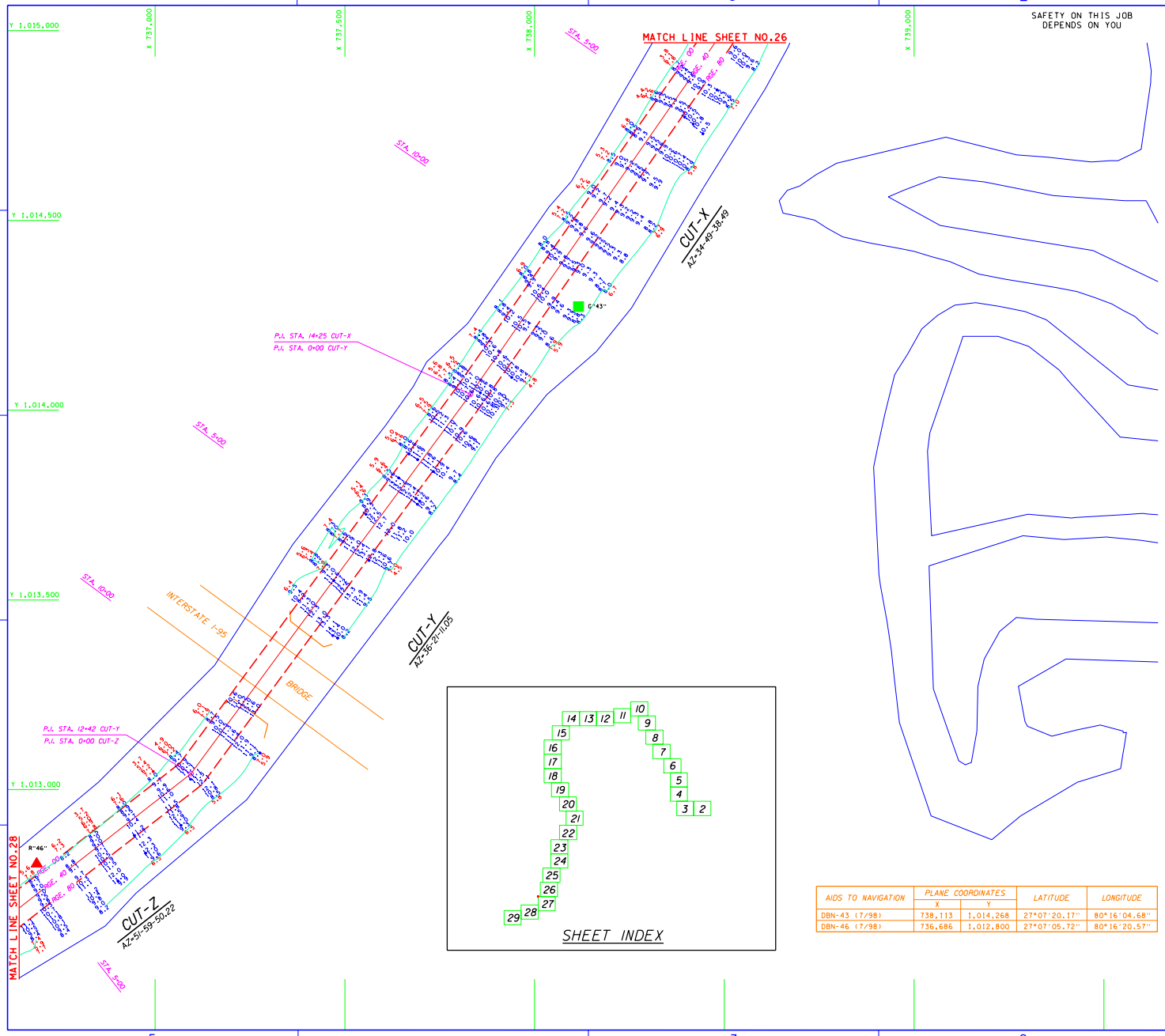

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-43 (7/98)	738,113	1,014,268	27°07'20.17"	80°16'04.68"
DBN-46 (7/98)	736,686	1,012,800	27°07'05.72"	80°16'20.57"

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PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 3+00 CUT-X THRU STA. 6+00 CUT-Z

PLAN

DESIGN ENG.:
DWN. BY: WRM
CKD. BY: GCK
INV. NO.
DATED:
SIZE: F
DRAWING NO.
SCALE: AS SHOWN
DATED: AUG 1998
SHEET 27 OF 29

D.O.FILE NO. 120A-37,639

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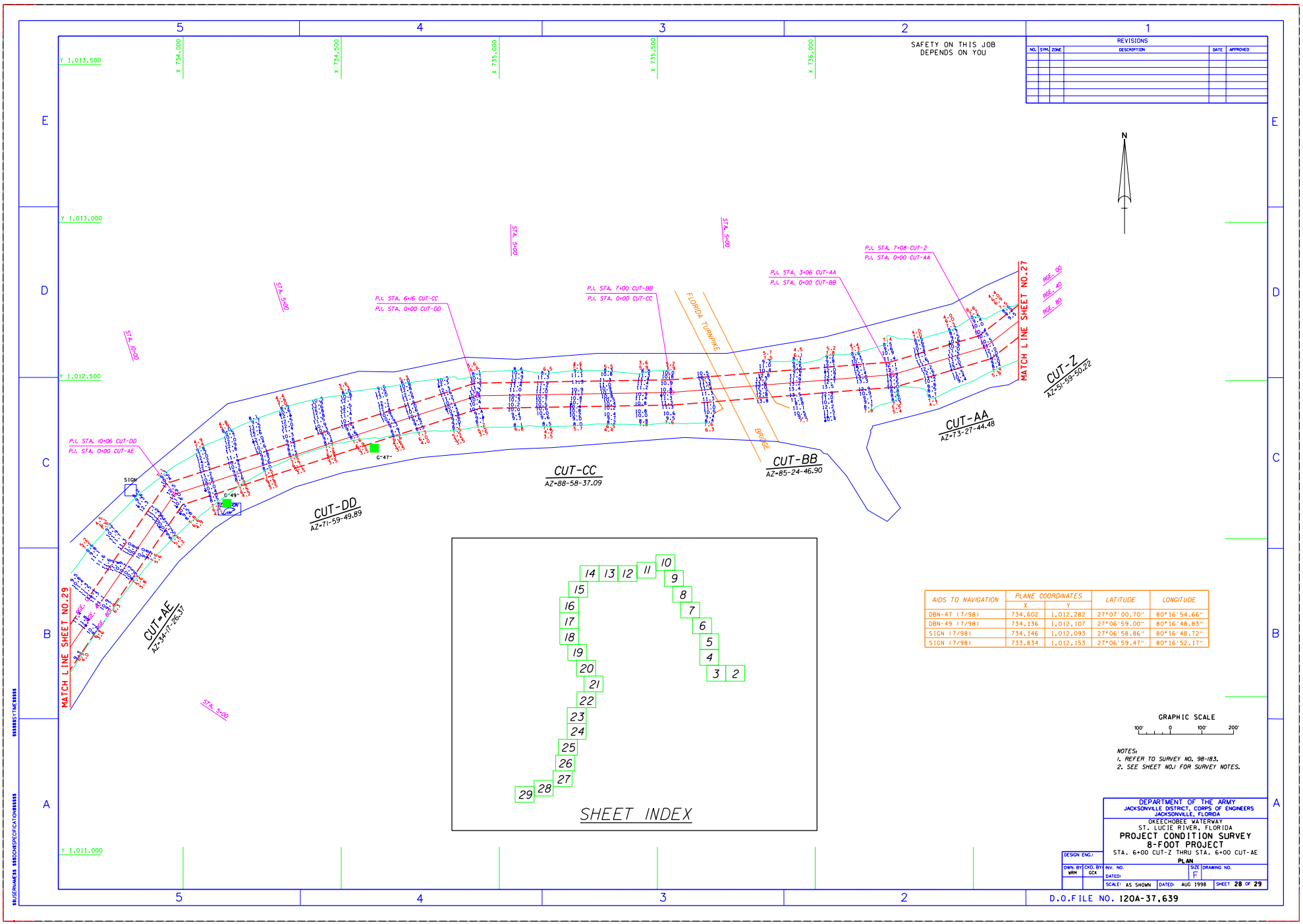

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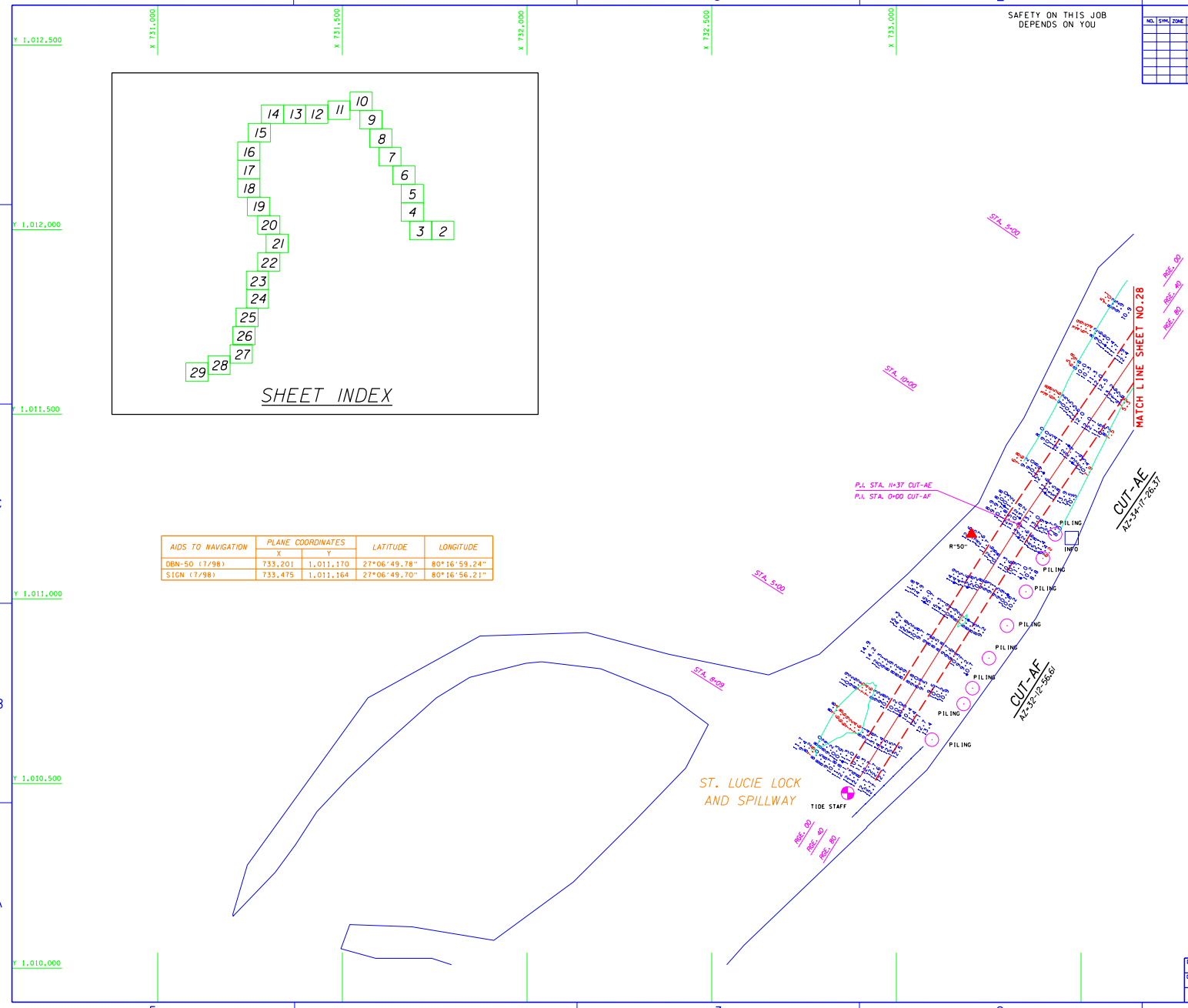
SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-50 (7/98)	733,201	1,011,170	27°06'49.78"	80°16'59.24"
SIGN (7/98)	733,475	1,011,164	27°06'49.70"	80°16'56.21"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 98-183.
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DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

OKEECHOBEE WATERWAY
ST. LUCIE RIVER, FLORIDA

PROJECT CONDITION SURVEY
8-FOOT PROJECT
STA. 5+00 CUT-AE THRU STA. 8+09 CUT-AF
PLAN

DESIGN ENG.:
DWN. BY: WRM | CKD. BY: GCK | INV. NO. | SIZE: F | DRAWING NO.
DATED:
SCALE: AS SHOWN | DATED: AUG 1998 | SHEET 29 OF 29

D.O.FILE NO. 120A-37,639

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