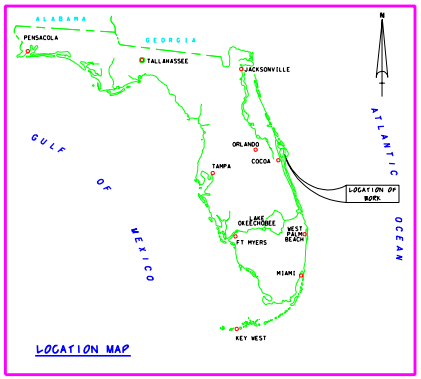
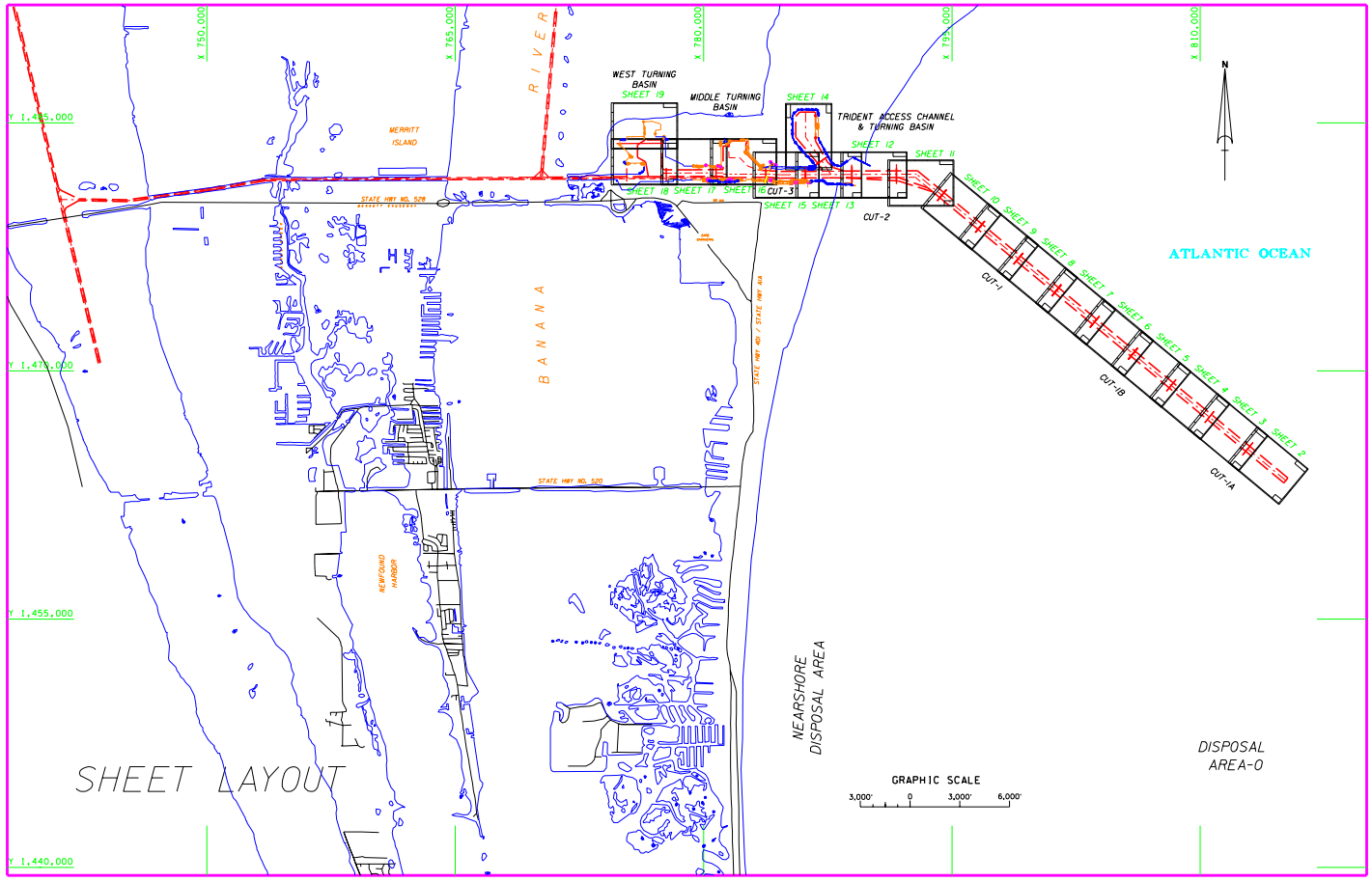
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
PROJECT CONDITION SURVEY



LOCATION MAP



SURVEY NOTES:

1. REFER TO SURVEY NO. 03-021.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 1.8 FEET BELOW NGVD 1929.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF SET ON A WOODEN PILING OF THE PILOTS BOAT DOCK, AND REFERENCED FROM BENCHMARK "CABLE SOUTH PORT".
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM AS THE REFERENCE SITE. VERTICAL MEASUREMENTS WERE MADE USING A ROSS SWART SOUNDER DEPTH RECORDER WITH A 28KHZ (LOW FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
WB-34	19-23 NOV 2002	CUT-2, TAC, TTB
FLORIDA	19-21 NOV 2002	CUT 1, 1A, 1B

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 ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

LEGEND

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

BENCHMARK	NGVD ELEV. (FT)
CABLE SOUTH PORT	13.22

NGVD 1929
1.8 feet
M.L.L.W.

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

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

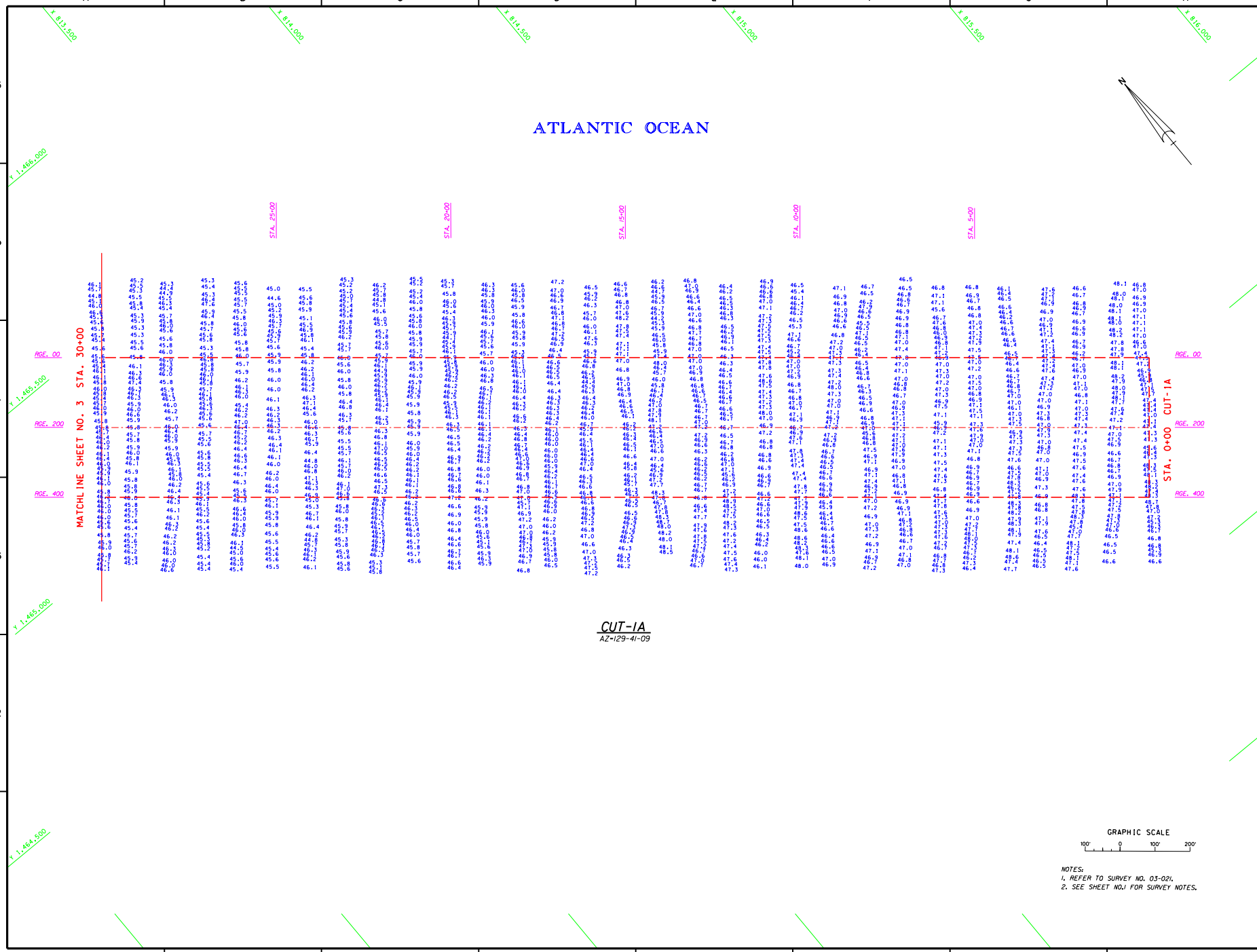
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Designed by:
Dwn by: (Sub by: RMW) FJW
Dated: NOV 2002
D.O.F.FILE NO.

File name: E02SHA1.DGN
Reference files: BRCP08.DGN BRCP10XX.DGN NEWFLMAP.DGN CHLAYOUT.DGN CANCHMA.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
COVER SHEET
PLAN

DRAWING NO.
1/15

SHEET 1 OF 19



NOTES:
1. REFER TO SURVEY NO. 03-021.
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
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXIX

Designed by:
Dwn by: FMW
Ckd by:

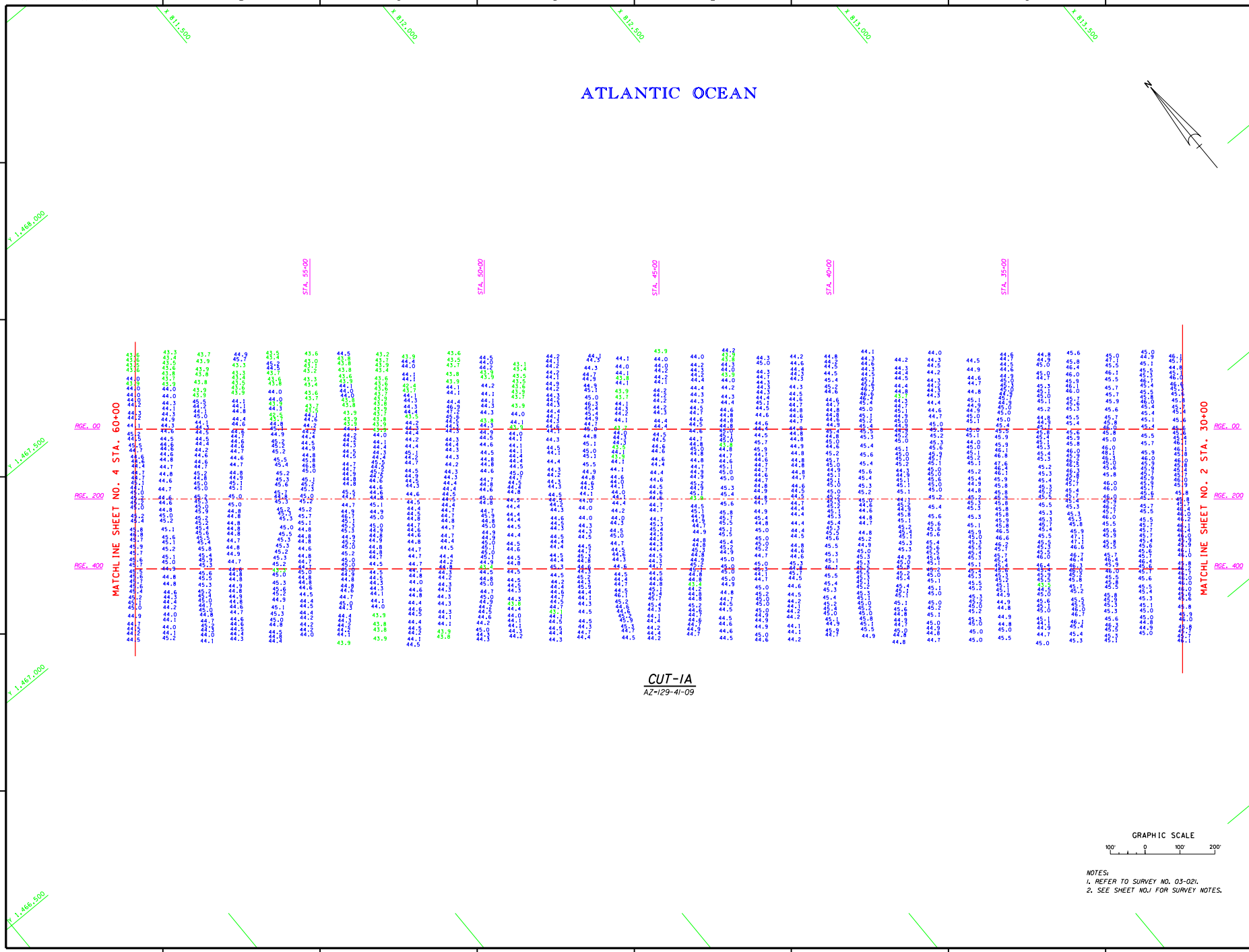
Dated: NOV 2002
D.O.FILE NO.

File name: E02TS102.DGN
Reference files: BIORR05.DGN E02TC11A.DGN CANCHAN.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 0+00 THRU 30+00 CUT-1A
PLAN

DRAWING NO.
2/15

SHEET 2 OF 19



CUT-1A

AZ-129-41-09

NOTES:
1. REFER TO SURVEY NO. 03-021.
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

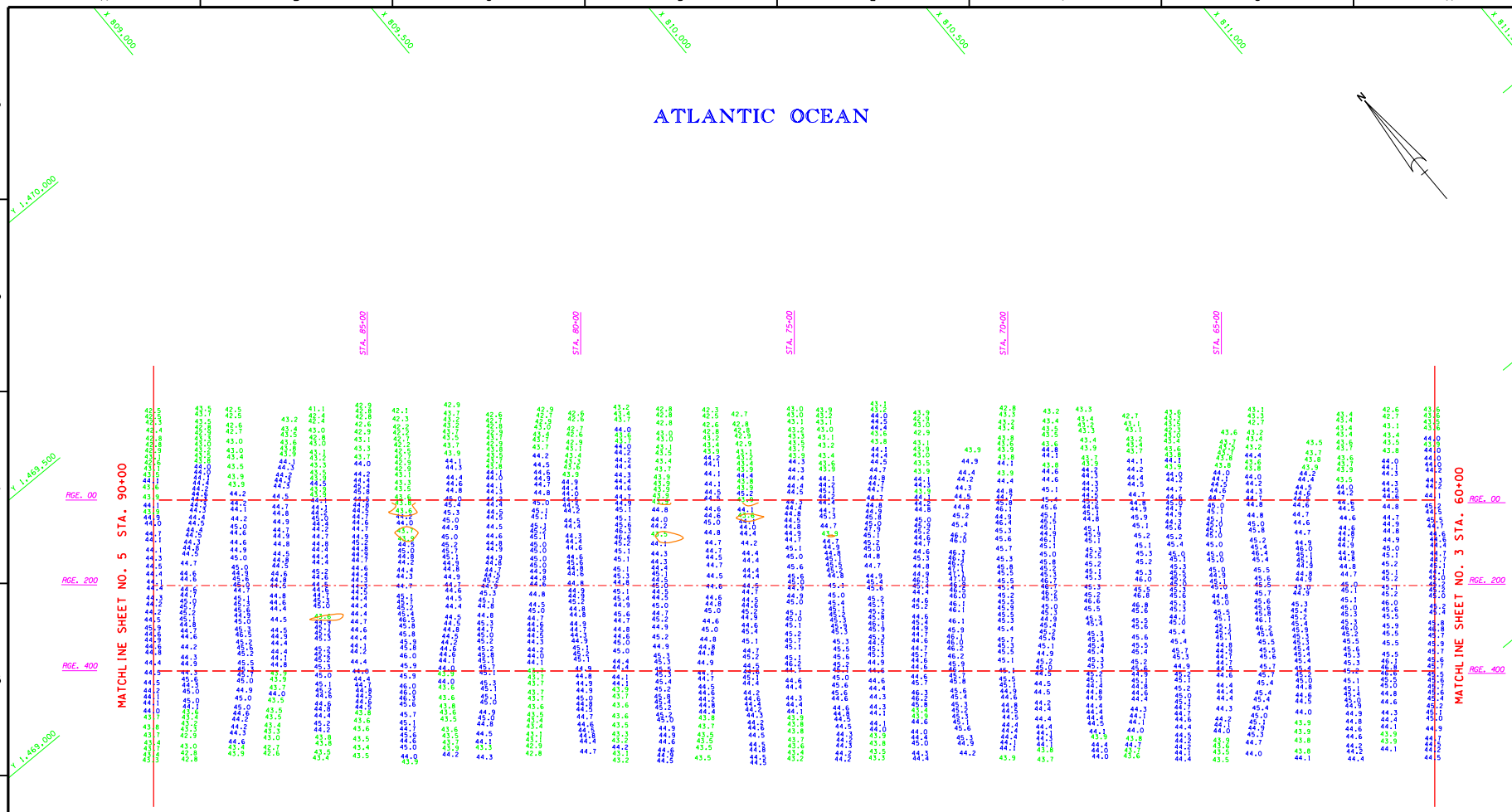
Designed by: Dwn by: FMW
Ckd by: Ckd by:
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XXX
Dated: NOV 2002
D.O.FILE NO.

File name: E02SHD3.DGN
Reference files: BRDR98.DGN CANCHAN.DGN E02ICUA.DGN E02ICUA44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 30+00 THRU STA. 60+00 CUT-1A
PLAN

DRAWING NO.
3/15

SHEET 3 OF 19



CUT-1A
AZ-129-41-09

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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

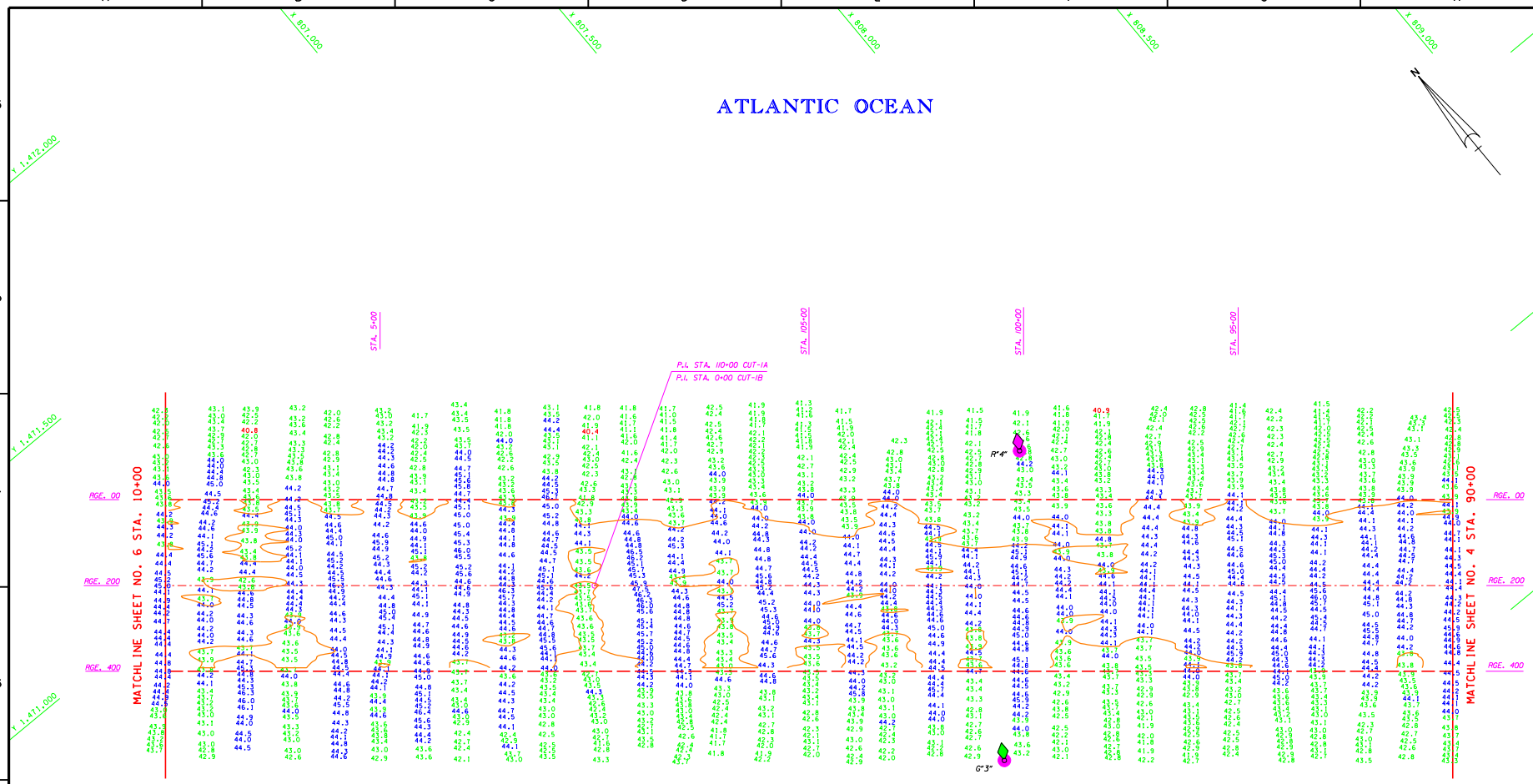
Designed by: | Dwn by: FMW | Ckd by: | Inv. No. DACW17-XX-X-XXXX | Dated: XX XXX XXXX | Scale: AS SHOWN | Plot date: XX XX XXXX | Plot scale: XXXX

Dated: NOV 2002
D.O. FILE NO.

File name: E02ISH04.DGN
Reference files: GRDRIB.DGN CANCHAN.DGN E02ICIA.DGN E02ICONT44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 60+00 THRU 90+00 CUT-1A
PLAN

DRAWING NO.
4/15
SHEET 4 OF 19



CUT-1B
AZ=129-41-09

CUT-1A
AZ=129-41-09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (11/02)	807,179	1,469,482	28°22'31.45"	80°31'49.39"
LT. BUOY-4 (11/02)	807,667	1,470,016	28°22'36.71"	80°31'43.90"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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

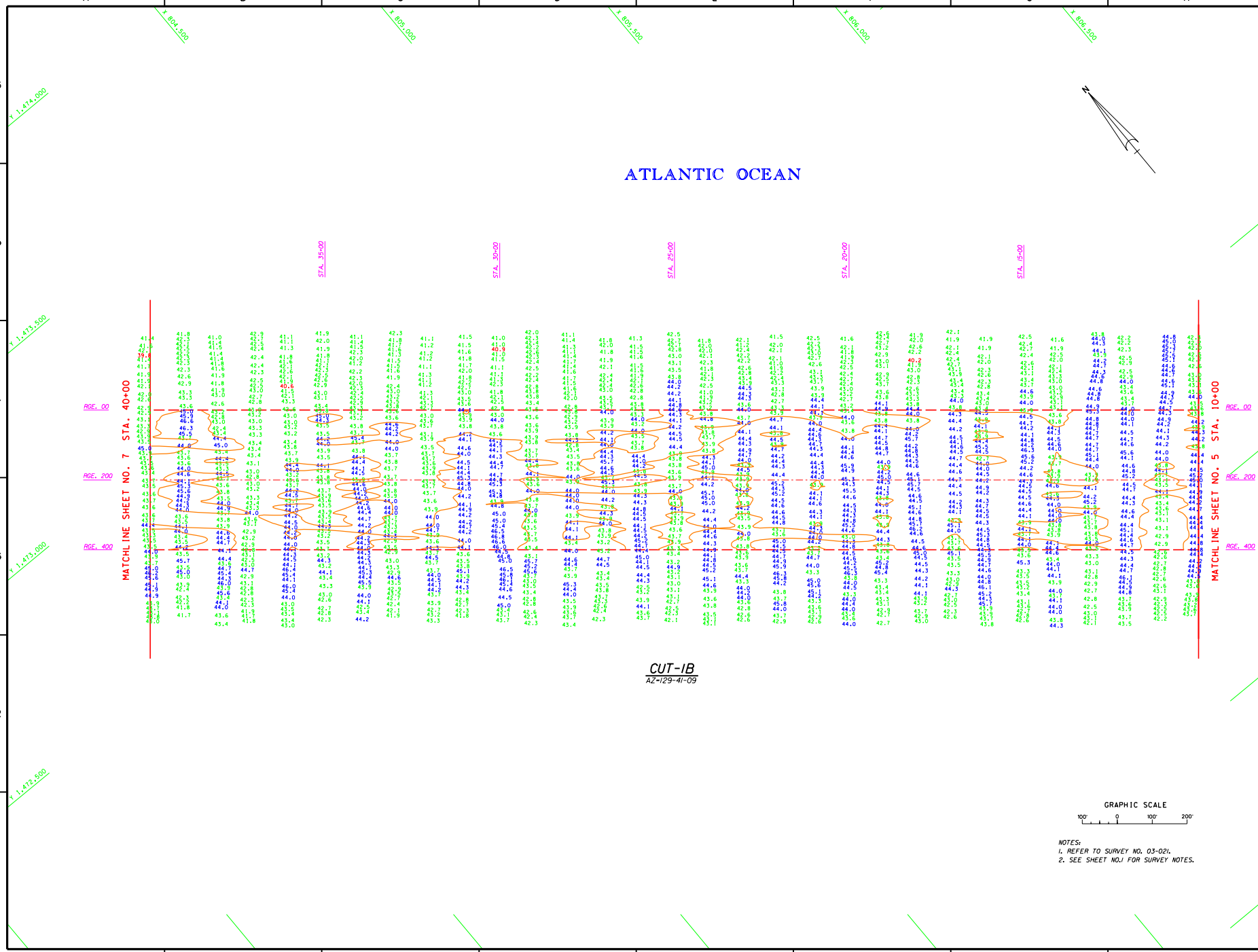
Inv. No.
Dates:
Scale:
Plot date:
Plot scale:
Designed by:
Dwn by: TWK
Ckd by:
Dated: NOV 2002
D.O.F.ILE NO.

File name: E02SHS03.DGN
Reference files:
E02SHS01.DGN
CANCHANGE.DGN
E02C1A.DGN
E02C1B.DGN
E02DOCK.DGN
E02DOCK14.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 90+00 CUT-1A THRU STA. 10+00 CUT-1B
PLAN

DRAWING NO.
5/15

SHEET 5 OF 19



NOTES:
1. REFER TO SURVEY NO. 03-021.
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. DACW17-99-C-0044
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

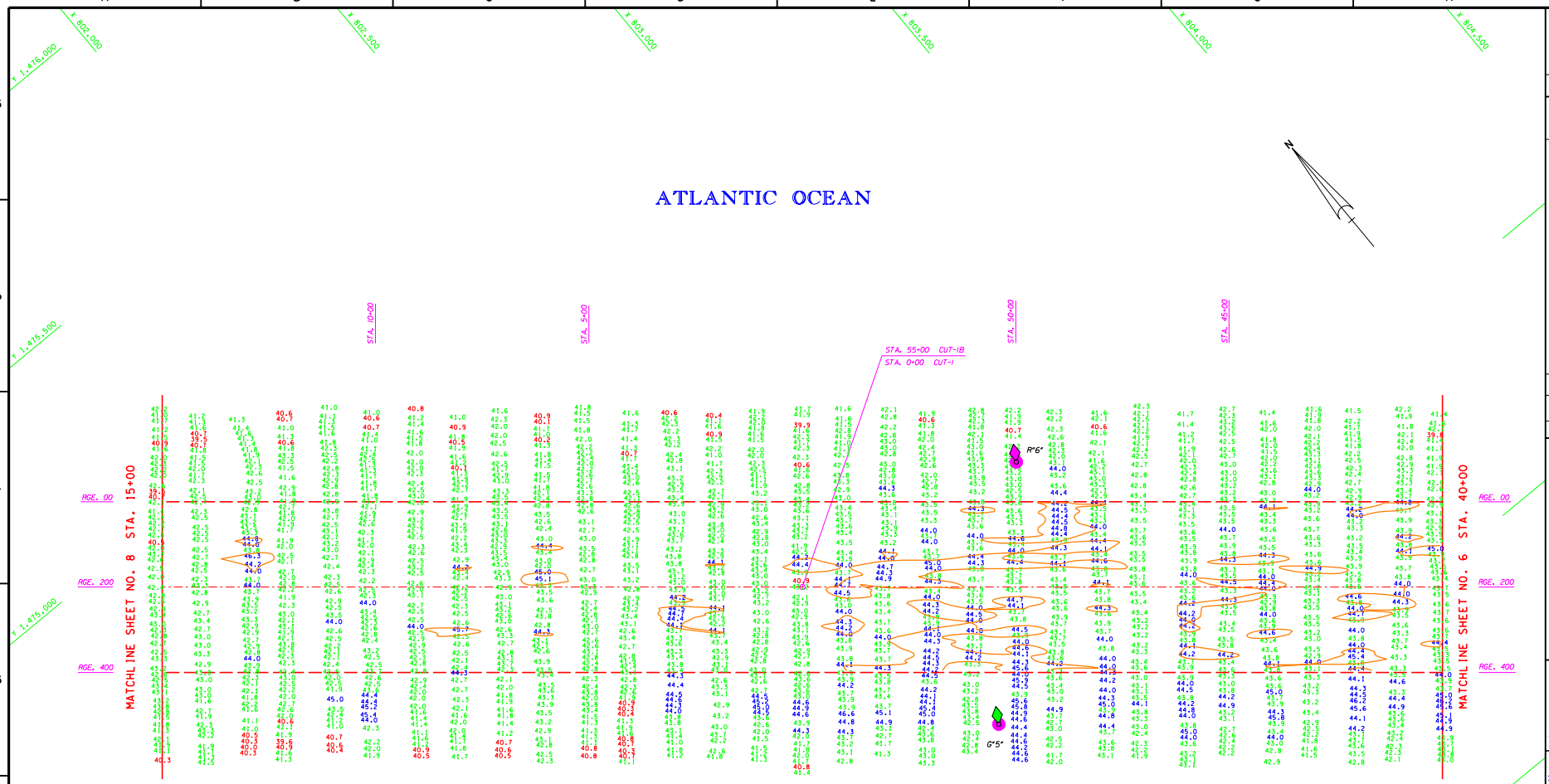
Designed by:
Dwn by: FMW
Ckd by:
Dated: NOV 2002
D.O. FILE NO.

File name: E02SH06.DGN
Reference files: BHDRS8.DGN CANCHAN.DGN E02CH18.DGN E02SCON144.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT-1B
PLAN

DRAWING NO.
6/15

SHEET 6 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (11/02)	802,621	1,473,378	28°23'10.19"	80°32'40.25"
LT. BUOY-6 (11/02)	803,045	1,473,825	28°23'14.60"	80°32'35.48"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Inv. No. DACW17-99-C-0044
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: 1:1X

Designed by:
Dwn by: TWK
Ckd by:

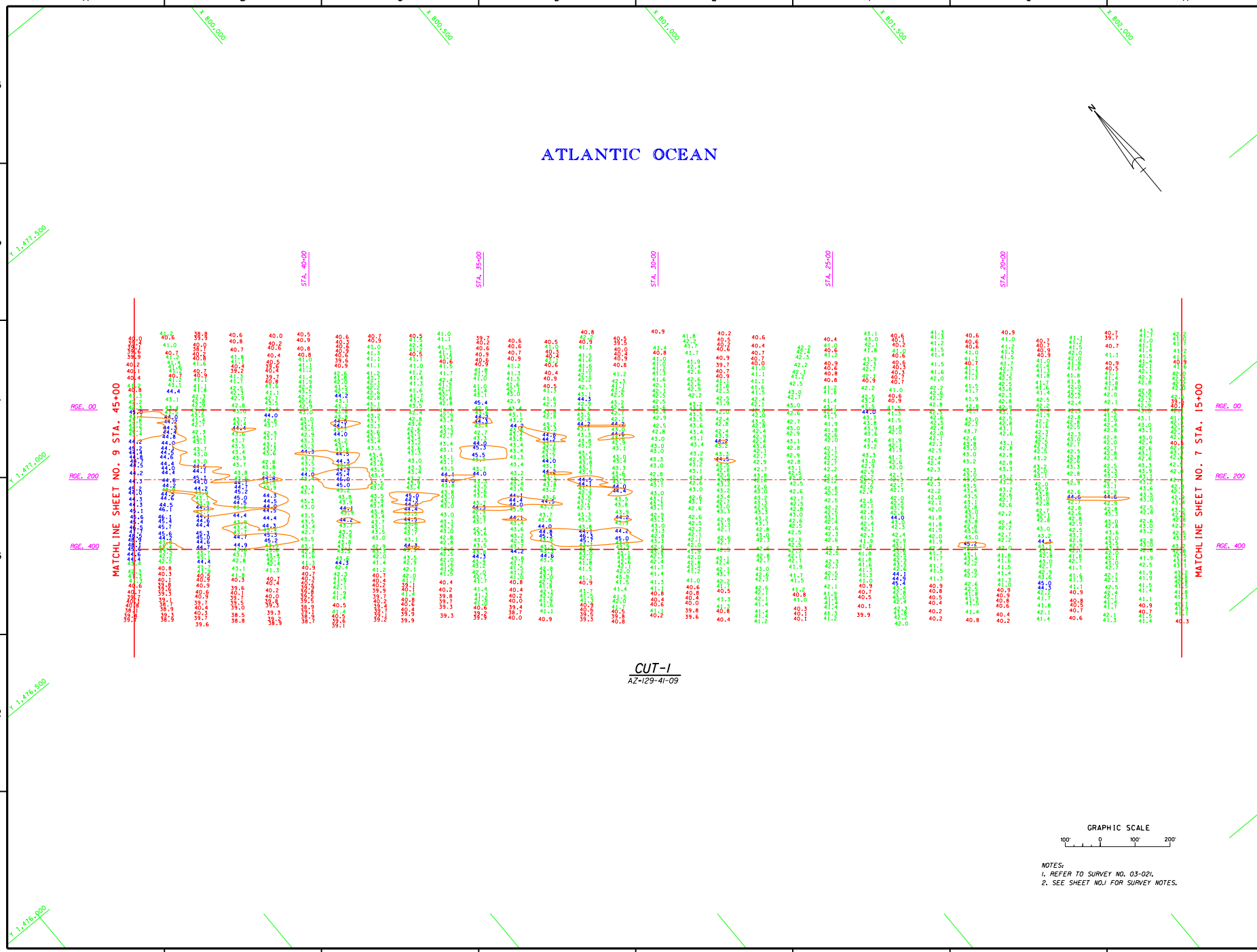
Dated NOV 2002
D.O.F.ILE NO.

File name: E02TSKI7.DGN
Reference files: E02TOPO.DGN
CANCHAN.DGN
E02CIB.DGN
E02CUT.DGN
E02NAV.DGN
E02CONT44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 40+00 CUT-IB THRU STA. 15+00 CUT-I
PLAN

DRAWING NO.
7/15

SHEET 7 OF 19



NOTES:
1. REFER TO SURVEY NO. 03-021.
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

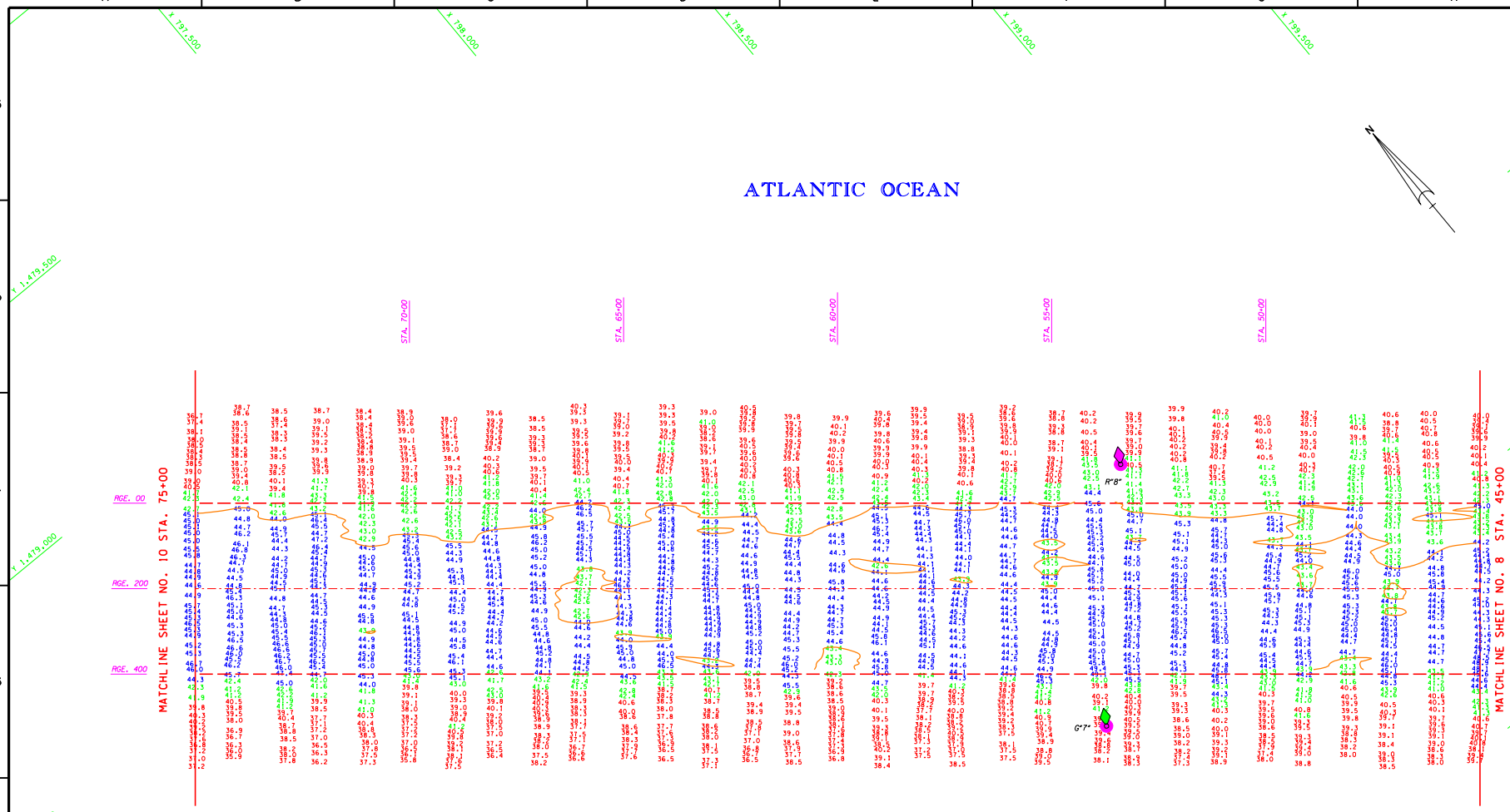
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Designed by:
Dwn by: FMW
Ckd by:
Dated: NOV 2002
D.O.FILE NO.

File name: E02SHX08.DGN
Reference files: BDR08.DGN CANCHAN.DGN E02VC1.DGN E02ICON144.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 15+00 THRU STA. 45+00 CUT-1
PLAN

DRAWING NO.
8/15

SHEET 8 OF 19



CUT-1

AZ=129-41-09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (11/02)	798,133	1,477,102	28°23'47.23"	80°33'30.34"
LT. BUOY-8 (11/02)	798,549	1,477,552	28°23'51.66"	80°33'25.67"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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. OACW17-99-B-0011
Dataset: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

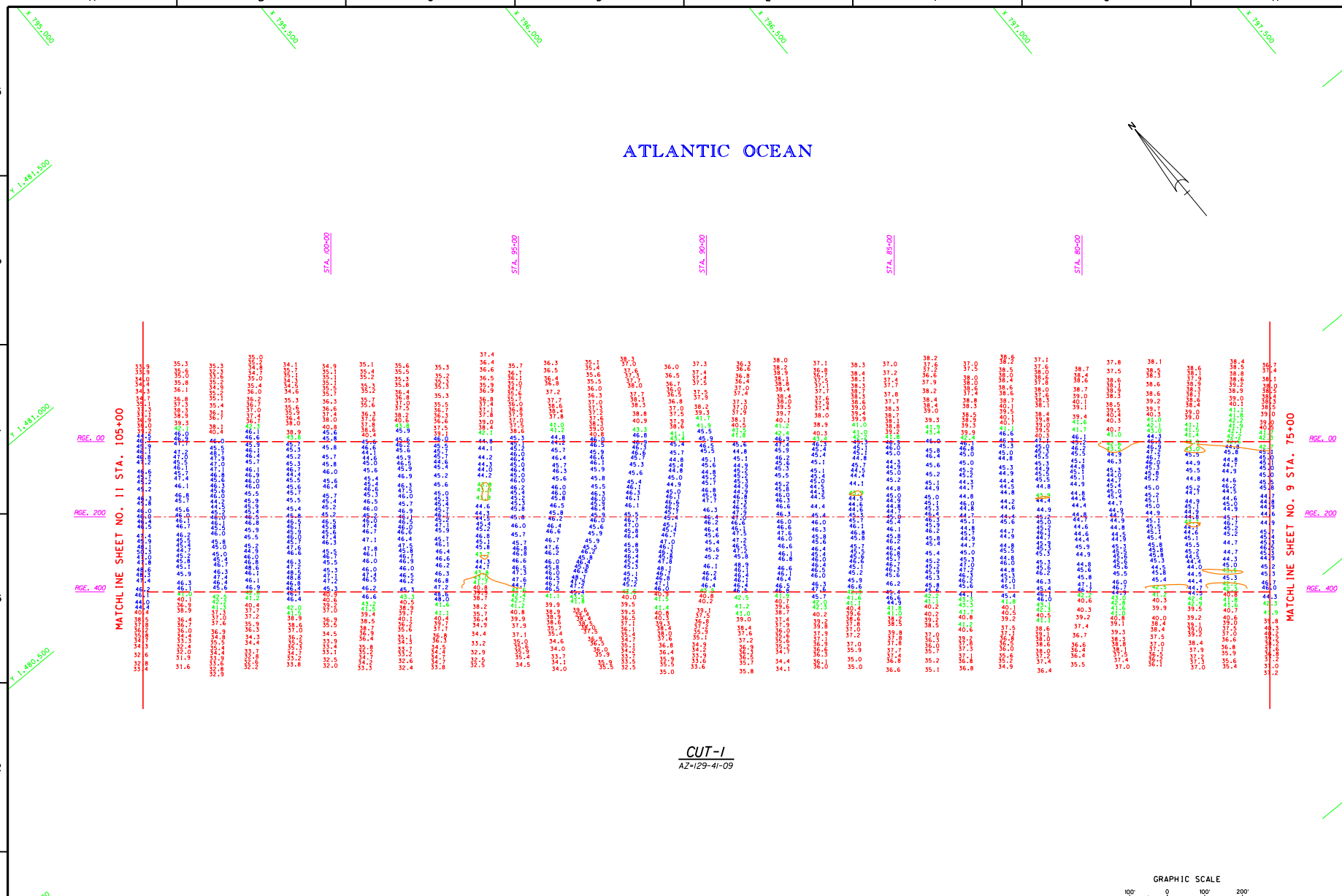
Designed by:
Dwn by: FMW
Ckd by:
Date: NOV 2002
D.O. FILE NO.

File name: E021SH09.DGN
Reference files: BRDR98.DGN CANCHAN.DGN E021C11.DGN E021NAV.DGN E021CONT44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 45+00 THRU STA. 75+00 CUT-1
PLAN

DRAWING NO.
9/15

SHEET 9 OF 19



CUT-1
AZ=129-41-09

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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. DACW17-99-B-0011
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXXX

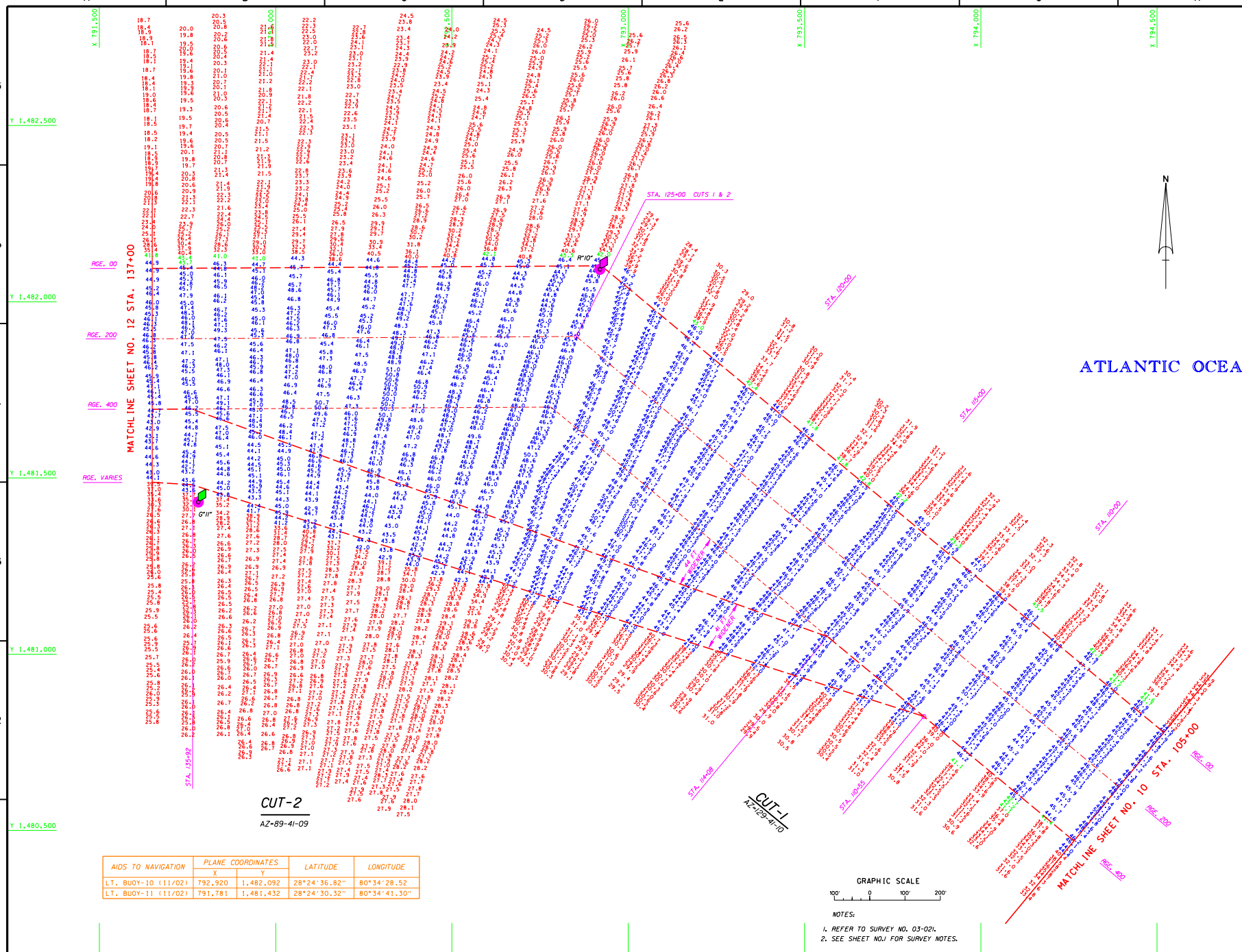
Designed by:
Dwn by: FMW
Ckd by:
Dated: NOV 2002
D.O. FILE NO.

File name: E021SHIO.DGN
Reference files: BRDRSB.DGN CANCHAN.DGN E021CT.DGN E021CONT44.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 75+00 THRU STA. 105+00 CUT-1
PLAN

DRAWING NO.
10/15

SHEET 10 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (11/02)	792,920	1,482,092	28°24'36.82"	80°34'28.52
LT. BUOY-11 (11/02)	791,781	1,481,432	28°24'30.32"	80°34'41.30"

NOTES:

1. REFER TO SURVEY NO. 03-021.
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

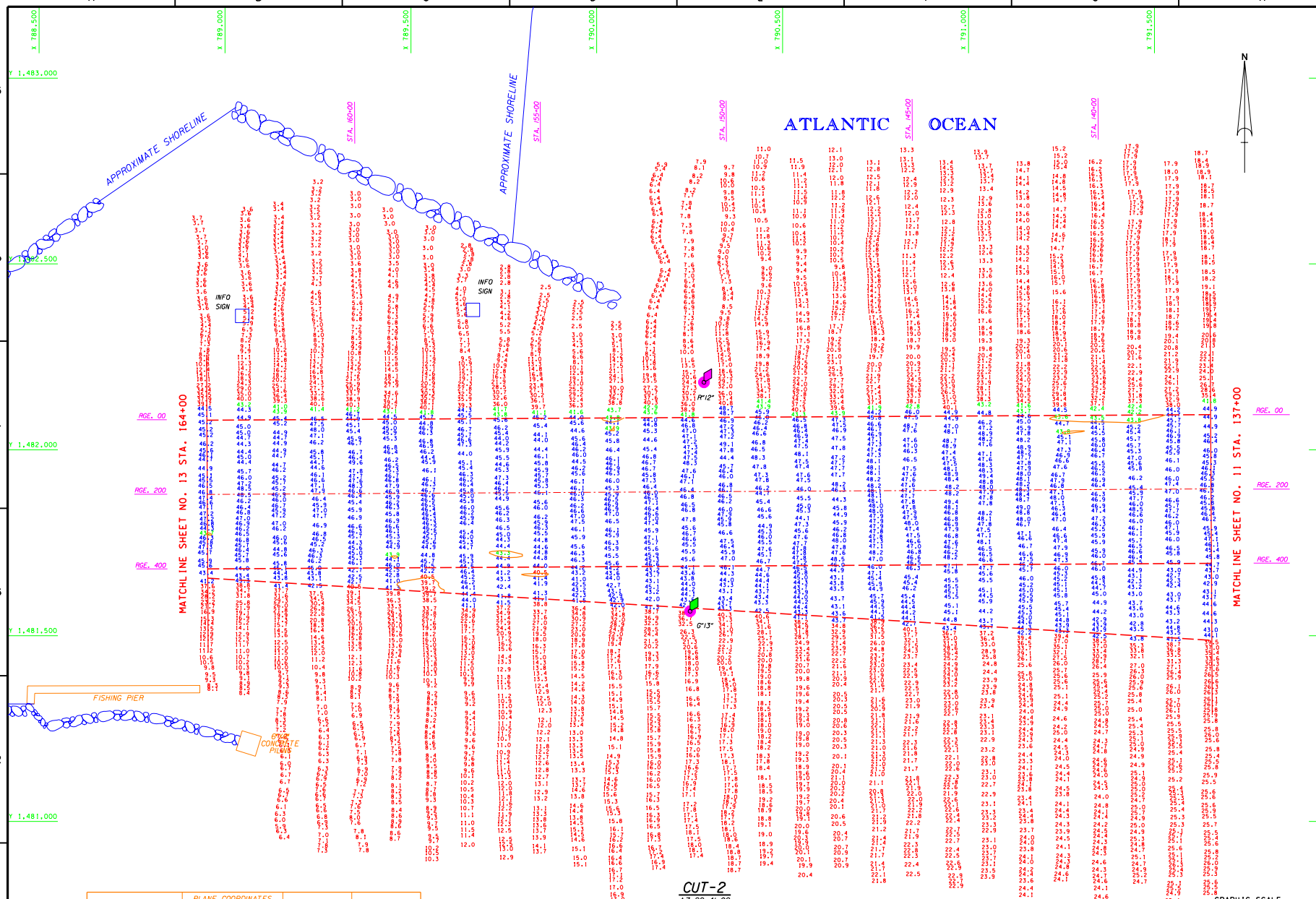
Rev. No. DACW17-99-B-0011
Dated: XX XXX XXXX
Designed by:
Dwn by: Chk by:
E.W.
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Dated NOV 2002
D.O.FILE NO.

File name: E02SHT1.DGN
Reference files: GRIDMSB.DGN
E02CT1.DGN E02CT2.DGN
E02NAV.DGN E02CTLDGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 105+00 CUT-1 THRU STA. 137+00 CUT-2
PLAN

DRAWING NO.
11/15

SHEET 11 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-12 (11/02)	790,288	1,482,181	28°24'37.80"	80°34'57.99"
LT. BUOY-13 (11/02)	790,251	1,481,566	28°24'31.70"	80°34'58.43"
INFO SIGN (11/02)	789,046	1,482,360	28°24'39.61"	80°35'11.89"
INFO SIGN (11/02)	789,667	1,482,377	28°24'39.75"	80°35'04.94"

NOTES:
1. REFER TO SURVEY NO. 03-021.
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
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

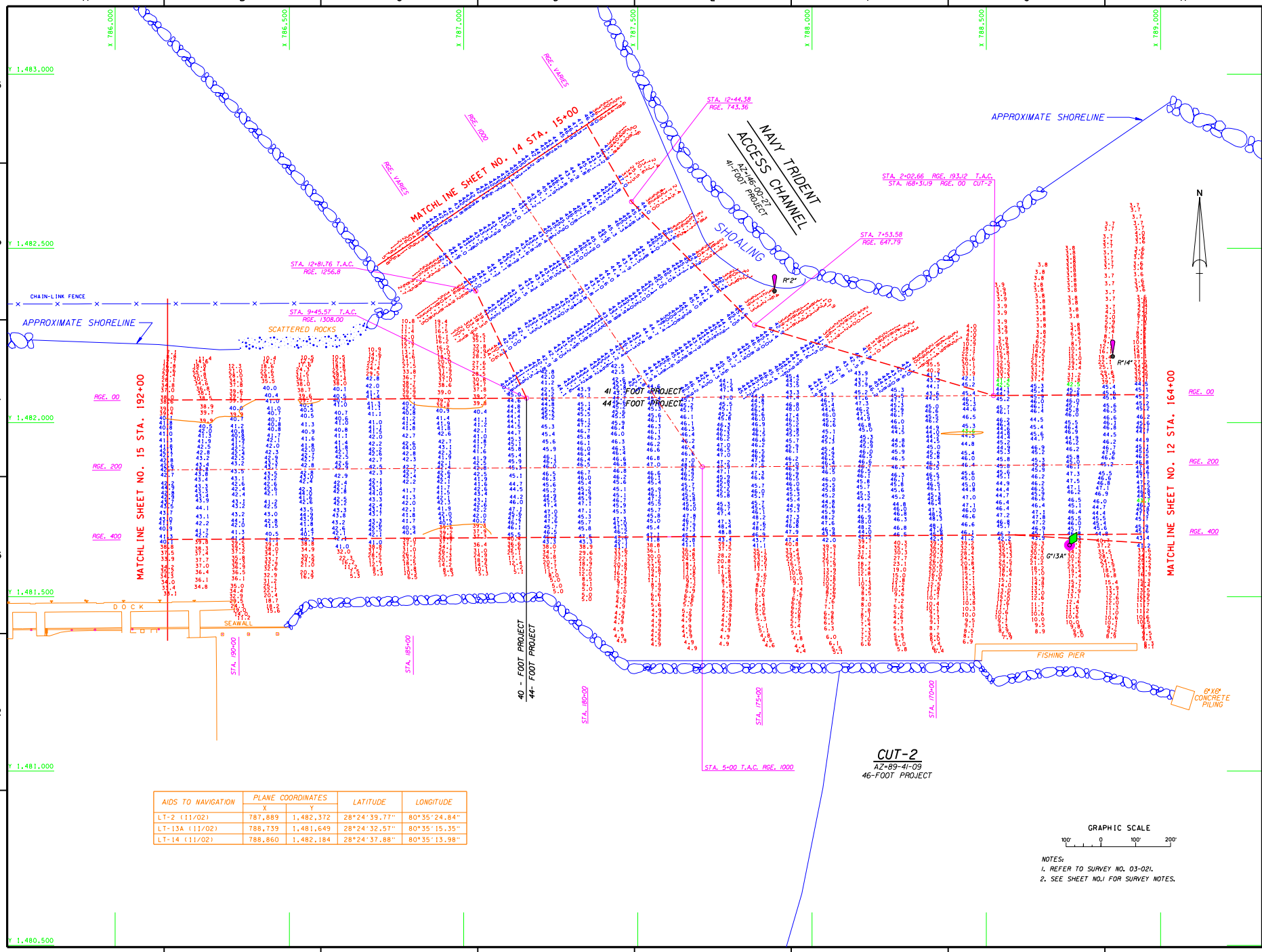
Rev. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: X:X:X
Designed by:
Dwn by: Chk by:
Dwn by: TWK
Dated: NOV 2002
D.O.F.FILE NO.

File name: E02SHT12.DGN
Reference files: BDRY01.DGN CONCHMAP.DGN E02CT12.DGN CONTOURS.DGN CANTOPO03.DGN E02TCON4.DGN E02TCON4-1.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 137+00 THRU STA. 164+00 CUT-2
PLAN

DRAWING NO.
12/15

SHEET 12 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-2 (11/02)	787,889	1,482,372	28°24'39.77"	80°35'24.84"
LT-13A (11/02)	788,739	1,481,649	28°24'32.57"	80°35'15.35"
LT-14 (11/02)	788,860	1,482,184	28°24'37.88"	80°35'13.98"

NOTES:
1. REFER TO SURVEY NO. 03-021.
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

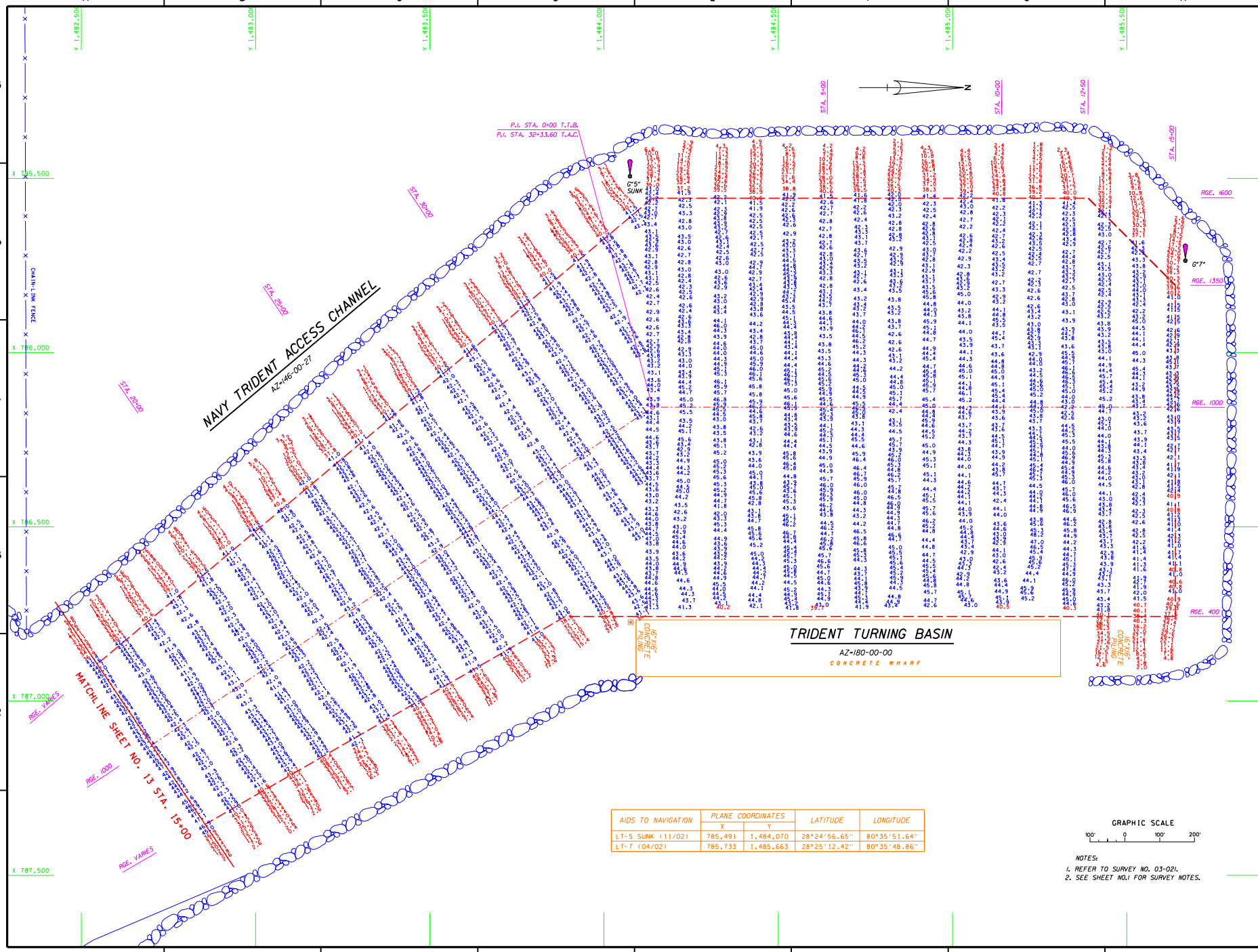
Rev. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Designed by:
Dwn by: Chk by:
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX:X
Dated: NOV 2002
D.O.F.ILE NO.

File name: E02SPH13.DGN
Reference files: E02CT2.DGN CONTOMAJ.DGN E02CT2.DGN CONTOMAJ.DGN CANTOPO83.DGN E02SUM.DGN E02SUM.DGN E02CONT40.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 164+00 THRU STA. 192+00 CUT-2
PLAN

DRAWING NO.
13/15

SHEET 13 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-5 SUNK (11/02)	785,491	1,484,070	28°24'56.65"	80°35'51.64"
LT-7 (04/02)	785,733	1,485,663	28°25'12.42"	80°35'48.86"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 03-021.
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

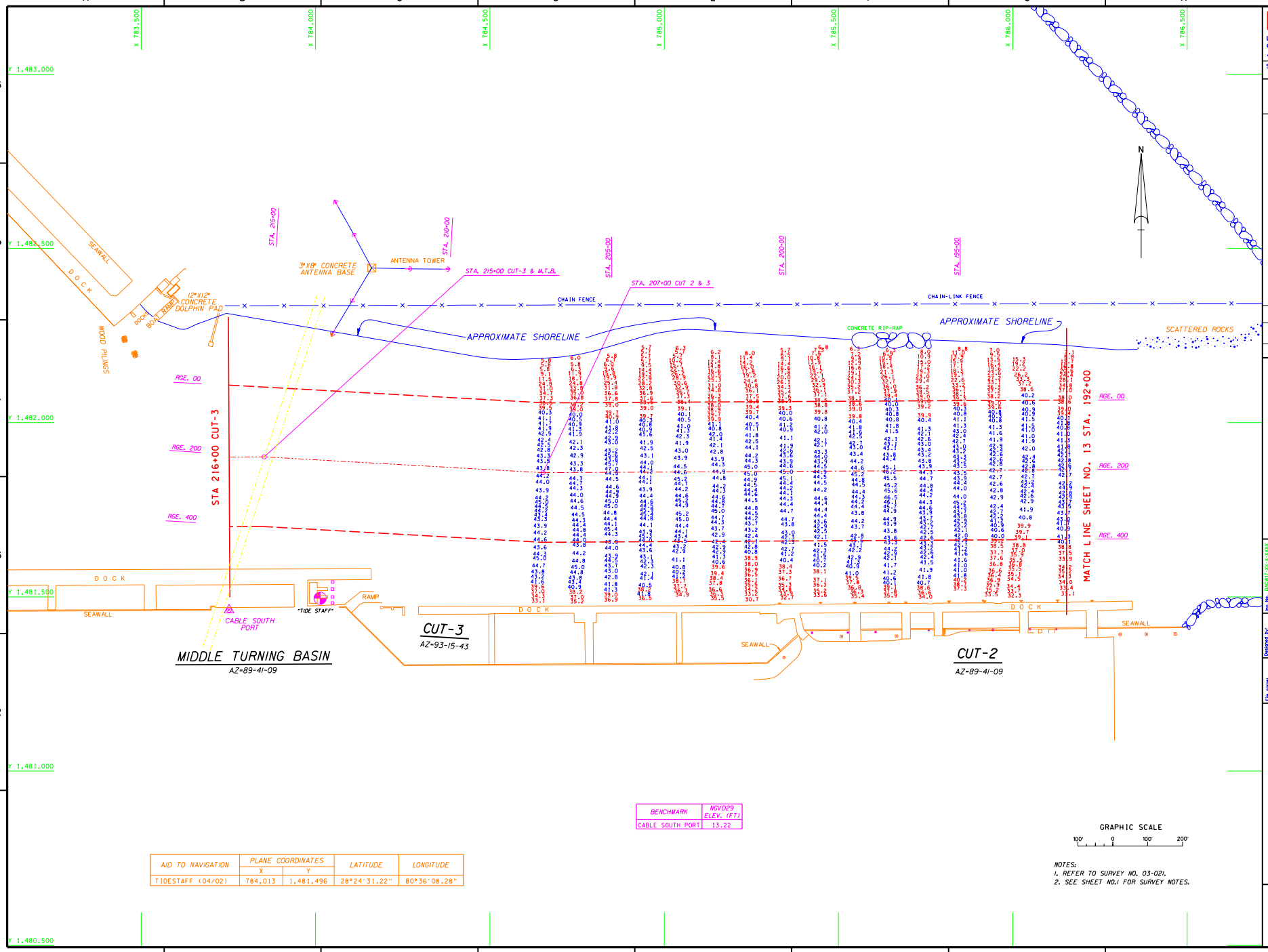
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX X
Designed by:
Dwn by: Ckd by:
FWK
Dated NOV 2002
D.O.F.ILE NO.

File name: E02SHA.DGN
Reference files: BRIDGE.DGN
E02BTM2.DGN
E02TTAC2.DGN
E02TTB2.DGN
CANTOON3.DGN
E02NAV.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41, & 44-FOOT PROJECT
TRIDENT ACCESS CHANNEL & TURNING BASIN
PLAN

DRAWING NO.
14/15

SHEET 14 OF 19



BENCHMARK	NGVD29 ELEV. (FT)
CABLE SOUTH PORT	13.22

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
TIDESTAFF (04/02)	784,013	1,481,496	28°24'31.22"	80°36'08.28"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-021.
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

Rev. No. DACW17-XX-X-XXXX
Dataset XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X
Designed by:
Dwn by: FJW
Ckd by:
Dated NOV 2002
D.O.FILE NO.

File name: E02SHIS.DGN
Reference files: E02SHIS.DGN
GRIDMASK.DGN
E02CT2.DGN
CANTONBS.DGN

CANAVERAL HARBOR, FLORIDA
NAVY QUARTERLY
PROJECT CONDITION SURVEY
31, 35, 39, 41 & 44-FOOT PROJECT
STA. 192+00 CUT-2 THRU STA. 216+00 M.T.B.
PLAN

DRAWING NO.
15/15

SHEET 15 OF 19