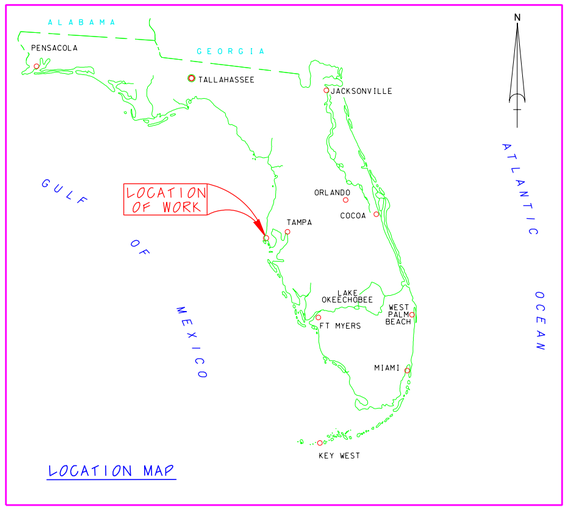
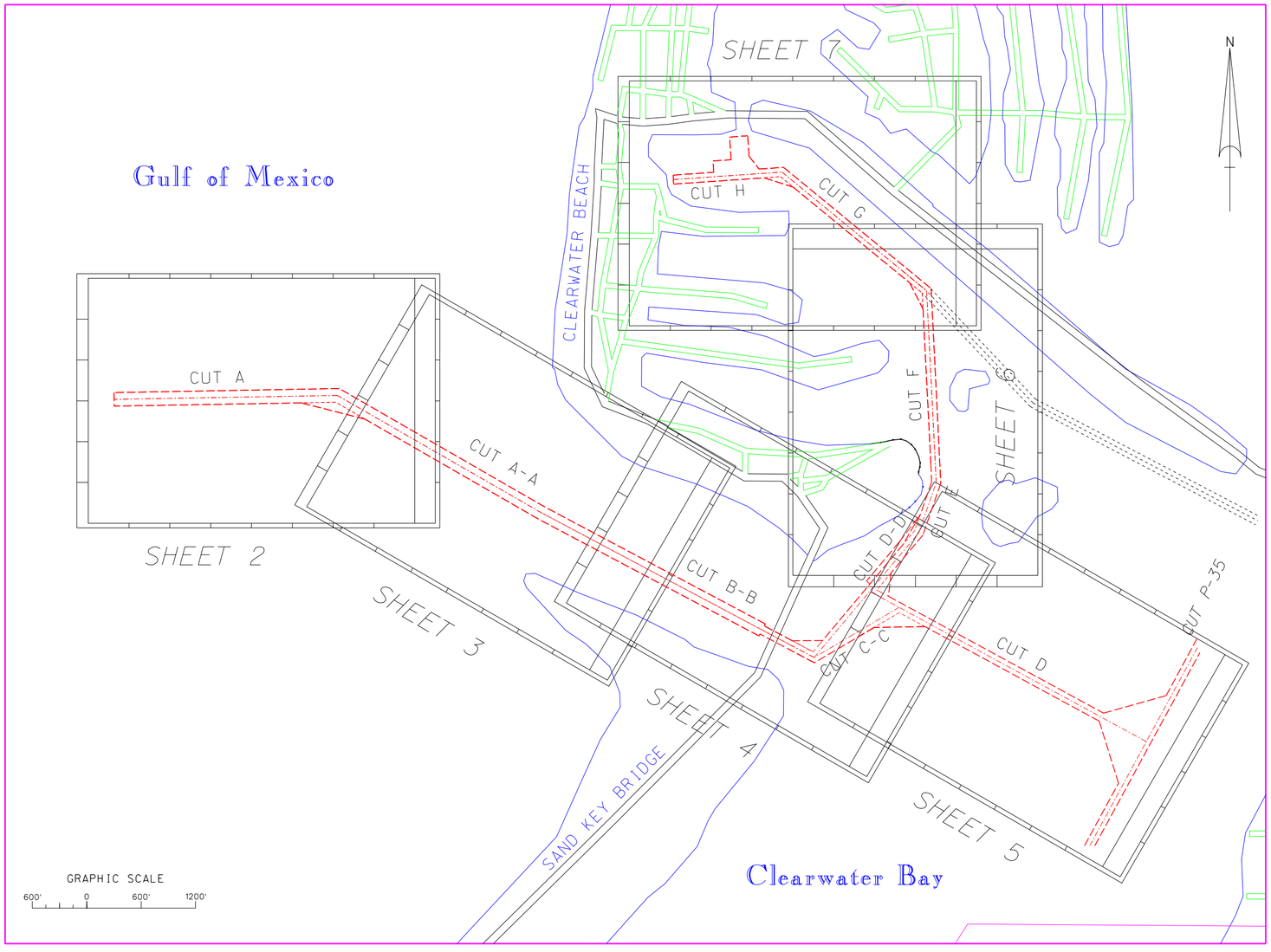
# CLEARWATER PASS, FLORIDA
# PROJECT CONDITION SURVEY
# 8 & 10-FOOT PROJECT




LOCATION MAP




SURVEY NOTES:

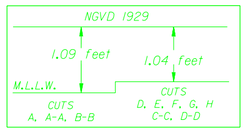
1. REFER TO SURVEY NO. 03-121.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW). REFER TO DIAGRAM SHOWN BELOW.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A MEASURE DOWN POINT ON A CONC. BRIDGE PILING AND REFERENCED FROM BENCHMARK "R-50" FOR CUTS A, A-A AND B-B. TIDAL REDUCTIONS FOR CUTS C-C, D-D, AND D THRU H WERE MADE FROM A STAFF SET ON A DOCK PILING IN THE VICINITY OF AND REFERENCED FROM BENCHMARK "AWL, 1941".
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST 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 AN ODOM ECHOTRAC MARK II DEPTH RECORDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

| VESSEL | DATE OF SURVEY | CUT |
|---|---|---|
| SEABAT | 13-15 JUL 2003 | A, AA-DD, D-D |

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.
12. FIELD DATA WAS COLLECTED BY CHARLIE FOSTER & ASSOCIATES.

| 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) |
|---|---|
| DNR R-50 | 5.79 |
| AWL, 1941 | 8.074 |




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

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

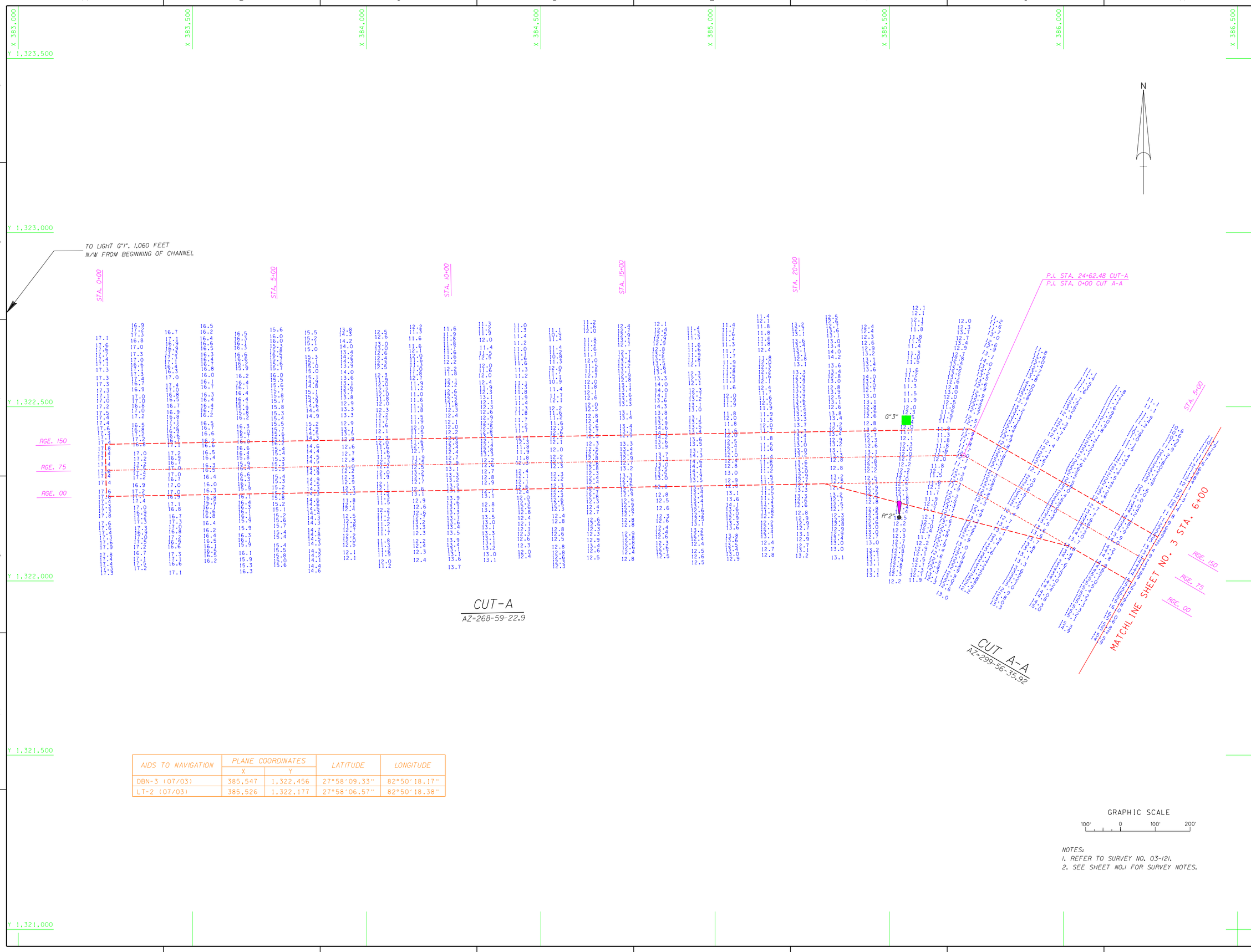
Dated: JULY 2003
D.O.FILE NO.

File name: E121SH01.DGN
Reference files: BRDR98.DGN NEWFLMAP.DGN CLWINDEX83.DGN CLRWTOPO.DGN CLRW83CH.DGN

CLEARWATER PASS, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
LOCATION AND INDEX SHEET
PLAN

DRAWING NO.
1/7

SHEET 1 OF 7




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| DBN-3 (07/03) | 385,547 | 1,322,456 | 27°58'09.33" | 82°50'18.17" |
| LT-2 (07/03) | 385,526 | 1,322,177 | 27°58'06.57" | 82°50'18.38" |

NOTES:
1. REFER TO SURVEY NO. 03-121.
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: RWH
Dwn by: WRM
Ckd by: WRM

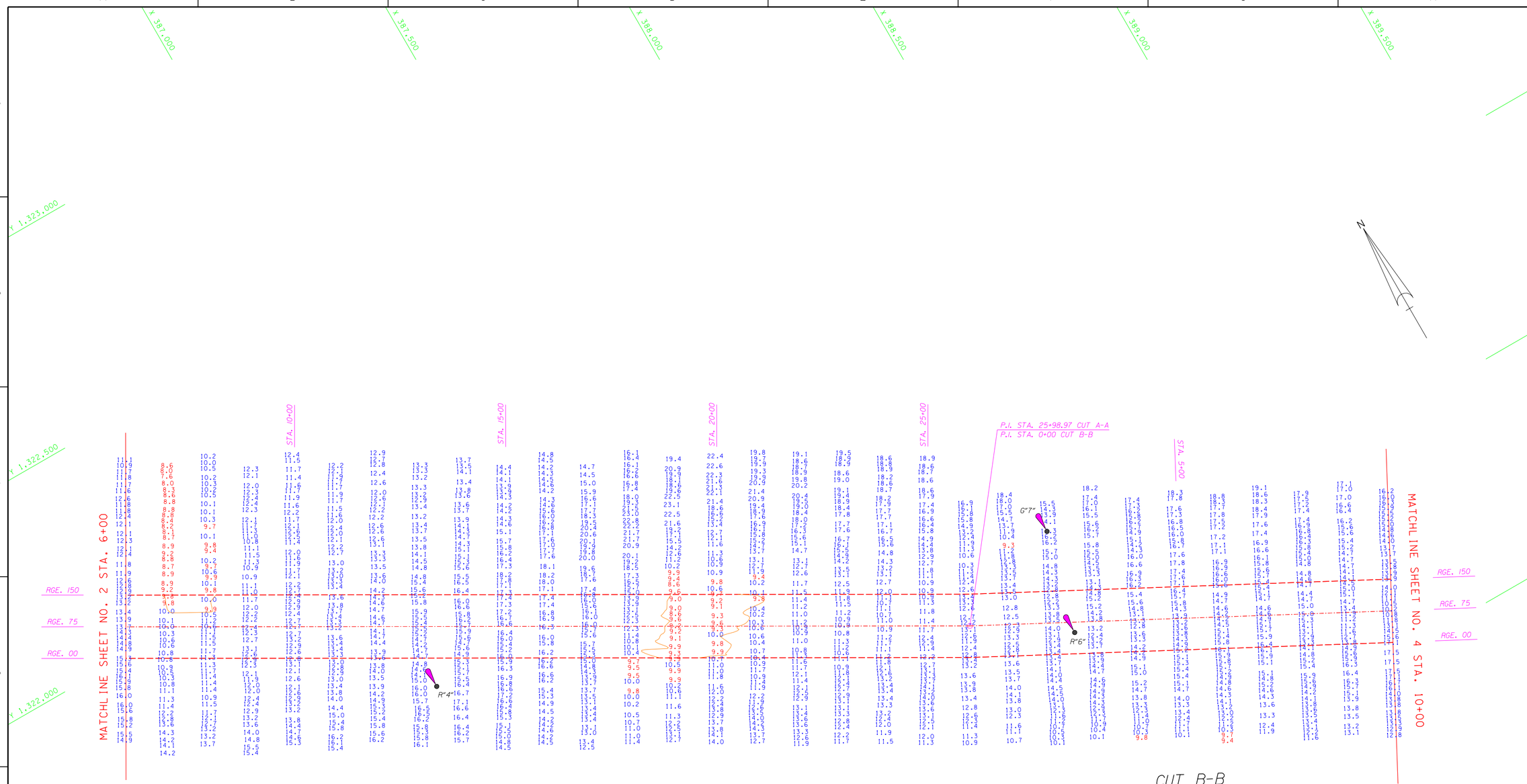
Dated: JUL 2003
D.O.FILE NO.

File name: E12ISH02.DGN
Reference files: BRDR98.DGN CLW83CH-NEW.DGN E12ICTA.DGN E12ICTAA.DGN E12INAV.DGN

CLEARWATER PASS, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 0+00 CUT-A THRU STA. 6+00 CUT A-A
PLAN

DRAWING NO.
2/7

SHEET 2 OF 7



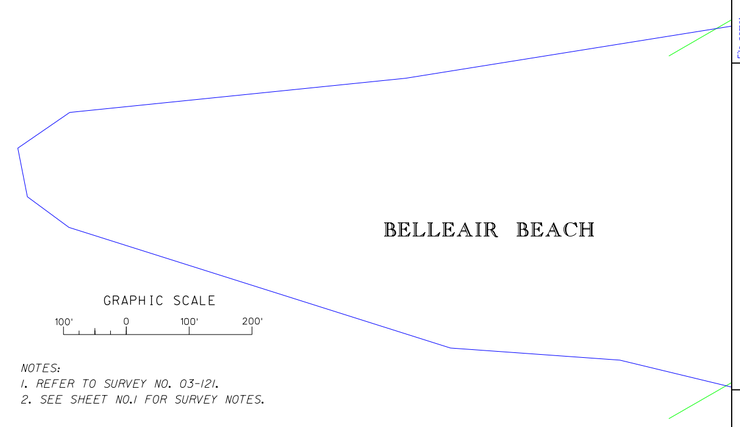

CUT A-A

AZ=299-56-35.92

CUT B-B

AZ=297-56-36.03

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-4 (07/03) | 386,797 | 1,321,565 | 27°58'00.59" | 82°50'04.16" |
| LT-6 (07/03) | 388,170 | 1,320,921 | 27°57'54.30" | 82°49'48.80" |
| LT-7 (07/03) | 388,233 | 1,321,161 | 27°57'56.69" | 82°49'48.12" |




NOTES:
1. REFER TO SURVEY NO. 03-121.
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

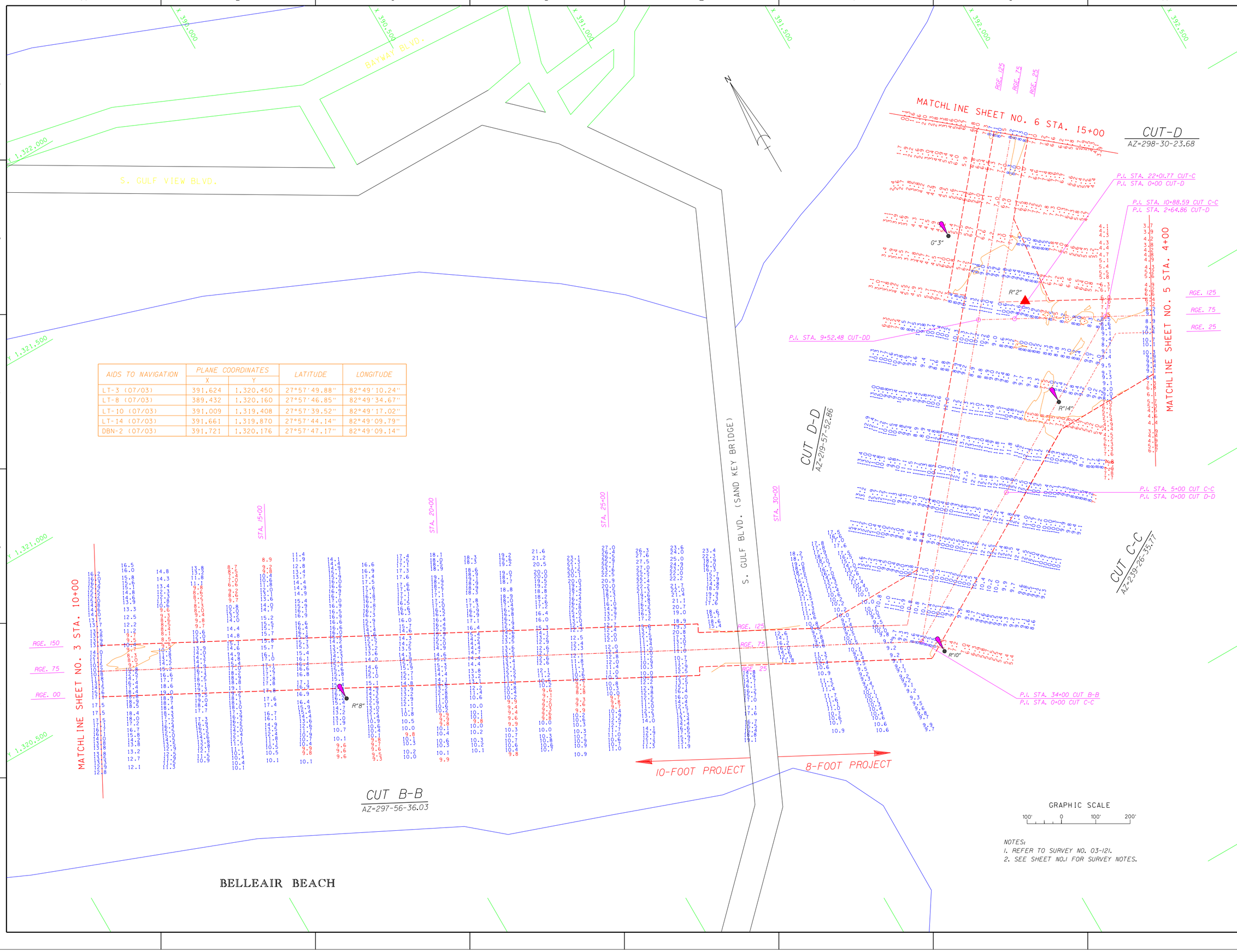
Designed by: RWH
Cad by: WRM
Dwn by: WRM
Dated: JUL 2003
D.O.FILE NO.

File name: E12SHS3.DGN
Reference files: BRDR98.DGN CLW83CH-NEW.DGN E12ICTAA.DGN E12ICTBB.DGN E12DWG-WRM.DGN CLRWTDFD83.DGN CONTO.DGN

CLEARWATER PASS, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA 6+00 CUT A-A THRU STA. 10+00 CUT B-B
PLAN

DRAWING NO.
3/7

SHEET 3 OF 7




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-3 (07/03) | 391,624 | 1,320,450 | 27°57'49.88" | 82°49'10.24" |
| LT-8 (07/03) | 389,432 | 1,320,160 | 27°57'46.85" | 82°49'34.67" |
| LT-10 (07/03) | 391,009 | 1,319,408 | 27°57'39.52" | 82°49'17.02" |
| LT-14 (07/03) | 391,661 | 1,319,870 | 27°57'44.14" | 82°49'09.79" |
| DBN-2 (07/03) | 391,721 | 1,320,176 | 27°57'47.17" | 82°49'09.14" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 03-121.
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

Designed by: RWH
Dwn by: WRM
Ckd by: WRM

Dated: JUL 2003
D.O.FILE NO.

File name: E12SHS03.DGN

Reference files:
ISLANDS.DGN
CLWS3CH-NEW.DGN
E12CTB8.DGN
E12CTB10.DGN
E12CTD2.DGN
CLRWTOPO8A.DGN
CLRWTOPO10A.DGN
CONTOUR.DGN

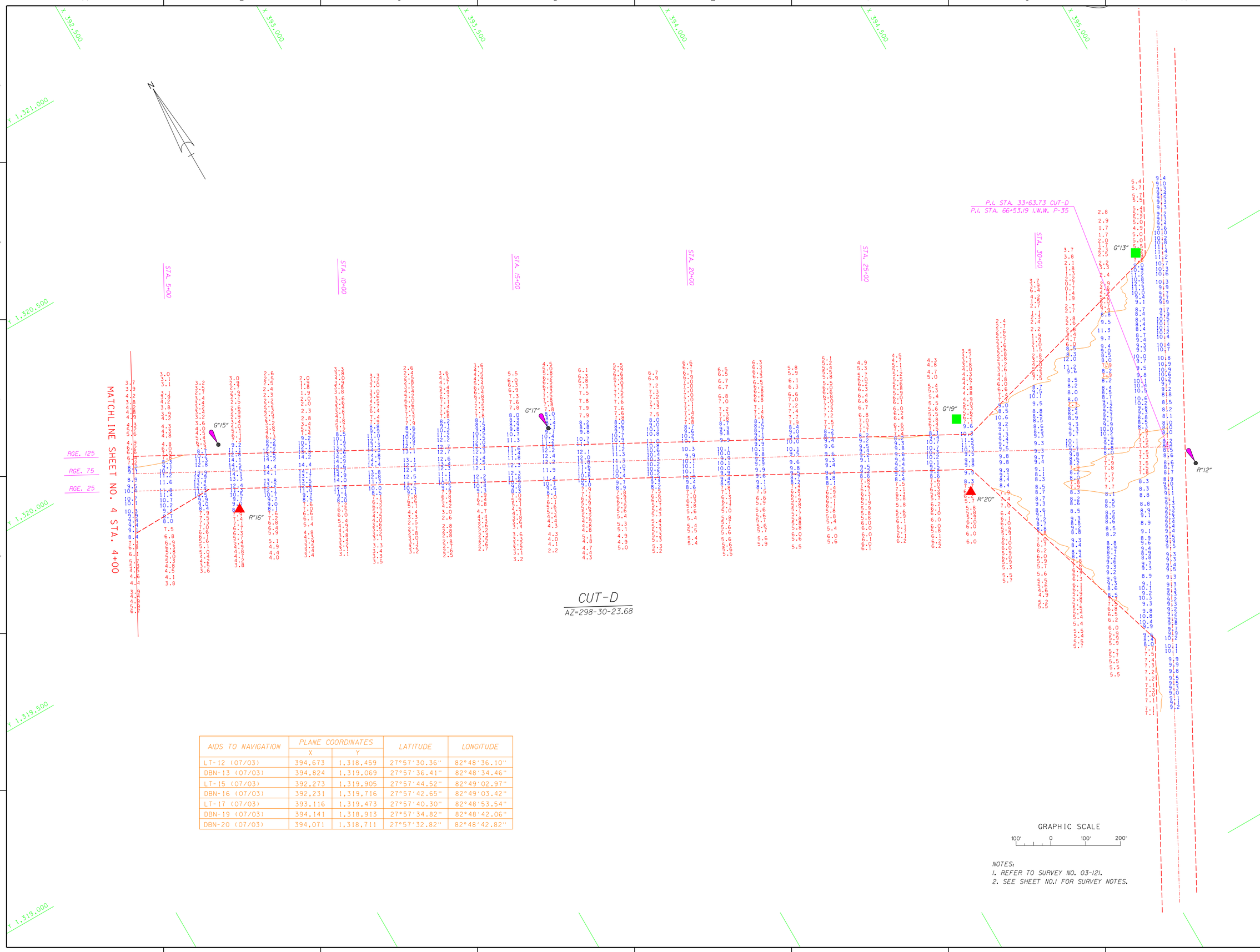
CLEARWATER PASS, FLORIDA

PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT

CUTS B-B, C-C, D-D, C, D, E
PLAN

DRAWING NO.
4/7

SHEET 4 OF 7




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-12 (07/03) | 394,673 | 1,318,459 | 27°57'30.36" | 82°48'36.10" |
| DBN-13 (07/03) | 394,824 | 1,319,069 | 27°57'36.41" | 82°48'34.46" |
| LT-15 (07/03) | 392,273 | 1,319,905 | 27°57'44.52" | 82°49'02.97" |
| DBN-16 (07/03) | 392,231 | 1,319,716 | 27°57'42.65" | 82°49'03.42" |
| LT-17 (07/03) | 393,116 | 1,319,473 | 27°57'40.30" | 82°48'53.54" |
| DBN-19 (07/03) | 394,141 | 1,318,913 | 27°57'34.82" | 82°48'42.06" |
| DBN-20 (07/03) | 394,071 | 1,318,711 | 27°57'32.82" | 82°48'42.82" |

NOTES:
1. REFER TO SURVEY NO. 03-121.
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

Designed by: RWH
Dwn by: WRM
Ckd by: WRM

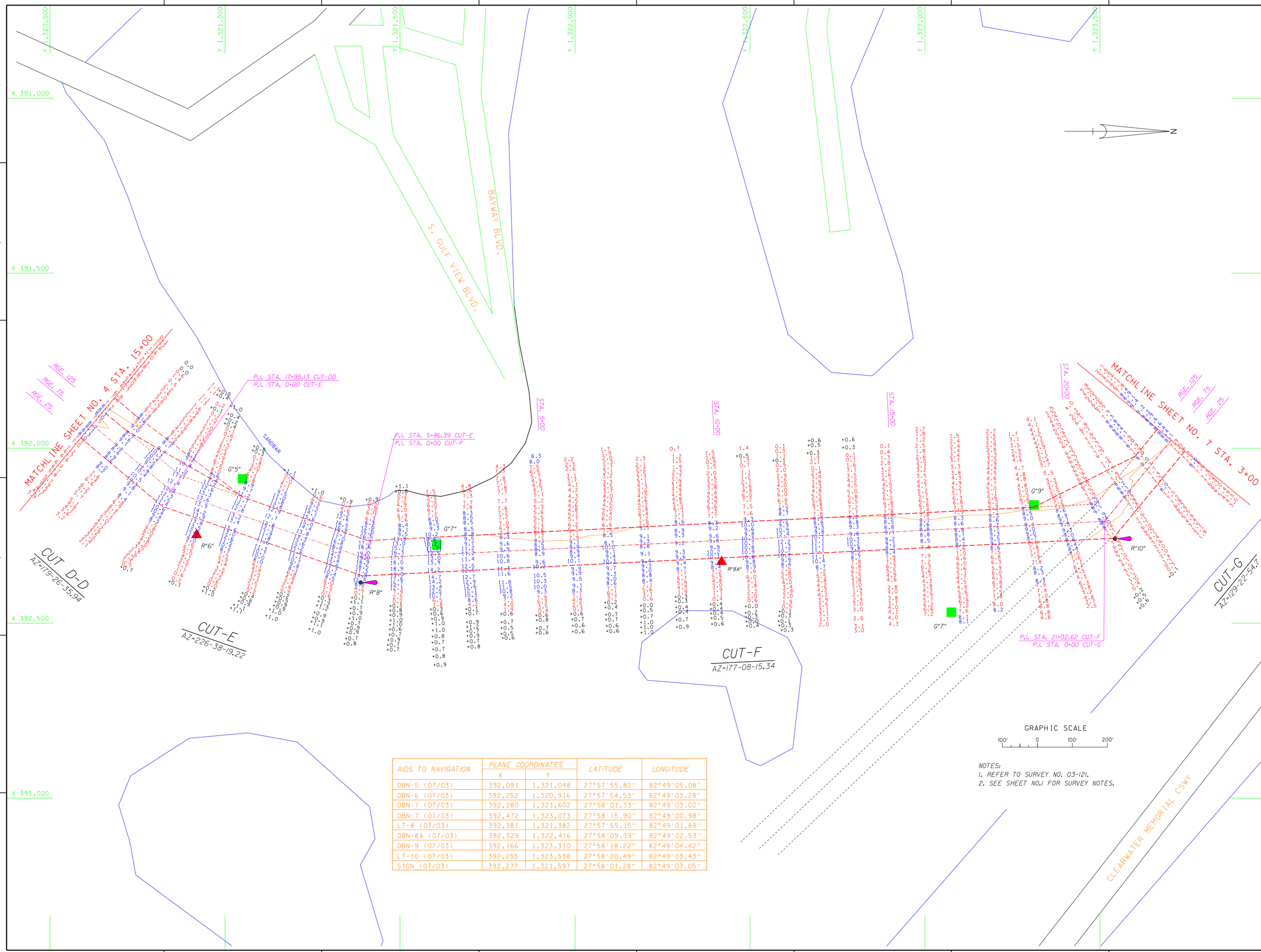
Dated: JUL 2003
D.O.F.ILE NO.

File name: E12DPSG3.DGN
Reference files: BKGRD98.DGN CLWB3CH-NEW.DGN E12DPSG1.DGN E12DPSG2.DGN CONB.DGN

CLEARWATER PASS, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 4+00 THRU STA. 33+63.73 CUT-D
PLAN

DRAWING NO.
5/7

SHEET 5 OF 7




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| DBN-5 (07/03) | 392,091 | 1,321,048 | 27°57'55.82" | 82°49'05.08" |
| DBN-6 (07/03) | 392,252 | 1,320,916 | 27°57'54.53" | 82°49'03.28" |
| DBN-7 (07/03) | 392,280 | 1,321,602 | 27°58'01.33" | 82°49'03.02" |
| DBN-7 (07/03) | 392,472 | 1,323,073 | 27°58'15.90" | 82°49'00.98" |
| LT-8 (07/03) | 392,381 | 1,321,382 | 27°57'59.15" | 82°49'01.88" |
| DBN-8A (07/03) | 392,329 | 1,322,416 | 27°58'09.39" | 82°49'02.53" |
| DBN-9 (07/03) | 392,166 | 1,323,310 | 27°58'18.22" | 82°49'04.42" |
| LT-10 (07/03) | 392,255 | 1,323,538 | 27°58'20.49" | 82°49'03.43" |
| SIGN (07/03) | 392,277 | 1,321,597 | 27°58'01.28" | 82°49'03.05" |

NOTES:
1. REFER TO SURVEY NO. 03-121.
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

Designed by: RWH
Cad by: WRM
Dwn by: WRM

Dated: JUL 2003

D.O.FILE NO.

File name: E12SHEE.DGN

Reference files: CLWTOPO.DGN
CLWR3CH1NEW.DGN
CLWWTOPO83.DGN
E12ICTE.DGN
E12ICTF.DGN
E12ICTG.DGN
E12NAV.DGN
COMB.DGN

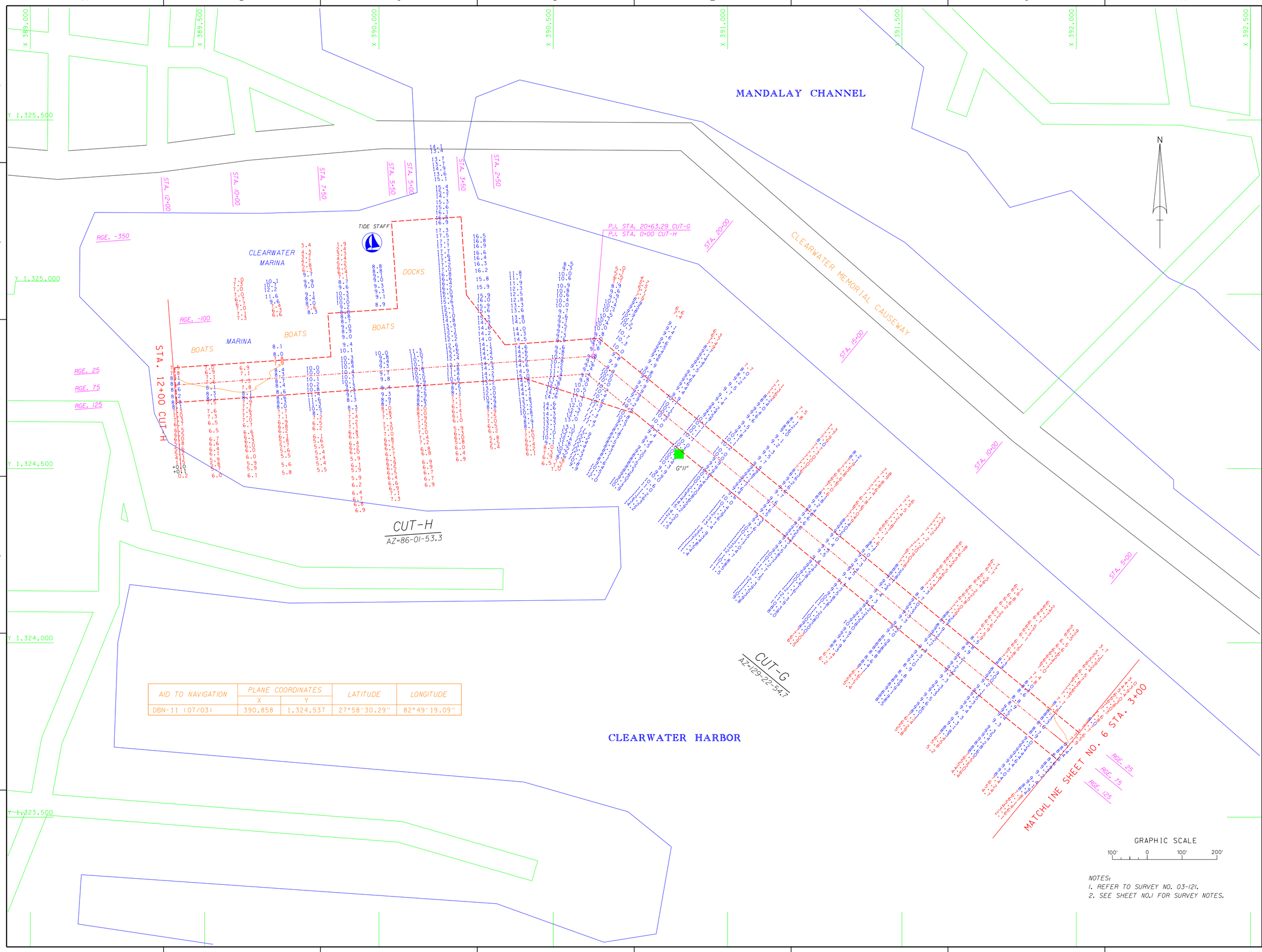
CLEARWATER PASS, FLORIDA

PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT

STA. 6+00 CUT-E THRU STA. 3+00 CUT-G
AND ALTERNATE CHANNEL 2
PLAN

DRAWING NO.
6/7

SHEET 6 OF 7




| AID TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| DBN-11 (07/03) | 390,858 | 1,324,537 | 27°58'30.29" | 82°49'19.09" |

NOTES:
1. REFER TO SURVEY NO. 03-121.
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

Designed by: RWH
Dwn by: WRM
Ckd by: WRM

Dated: JUL 2003
D.O. FILE NO.

File name: E12SMG7.DGN
Reference files: CBS0001.DGN
DBN3PLANE.DGN
E12CTH.DGN
E12CTG.DGN
E12MUL.DGN
CLWPROFILE.DGN
CONB.DGN

CLEARWATER PASS, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 3+00 CUT-G THRU STA. 12+00 CUT-H
PLAN

DRAWING NO.
7/7

SHEET 7 OF 7