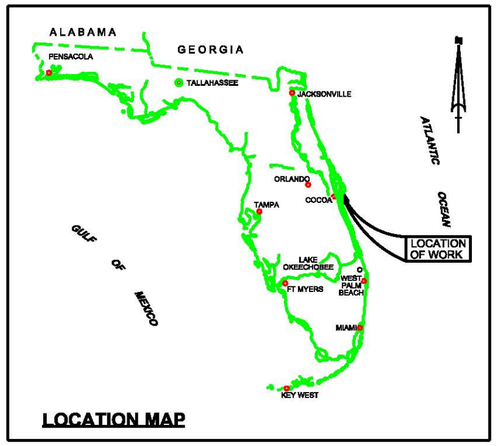
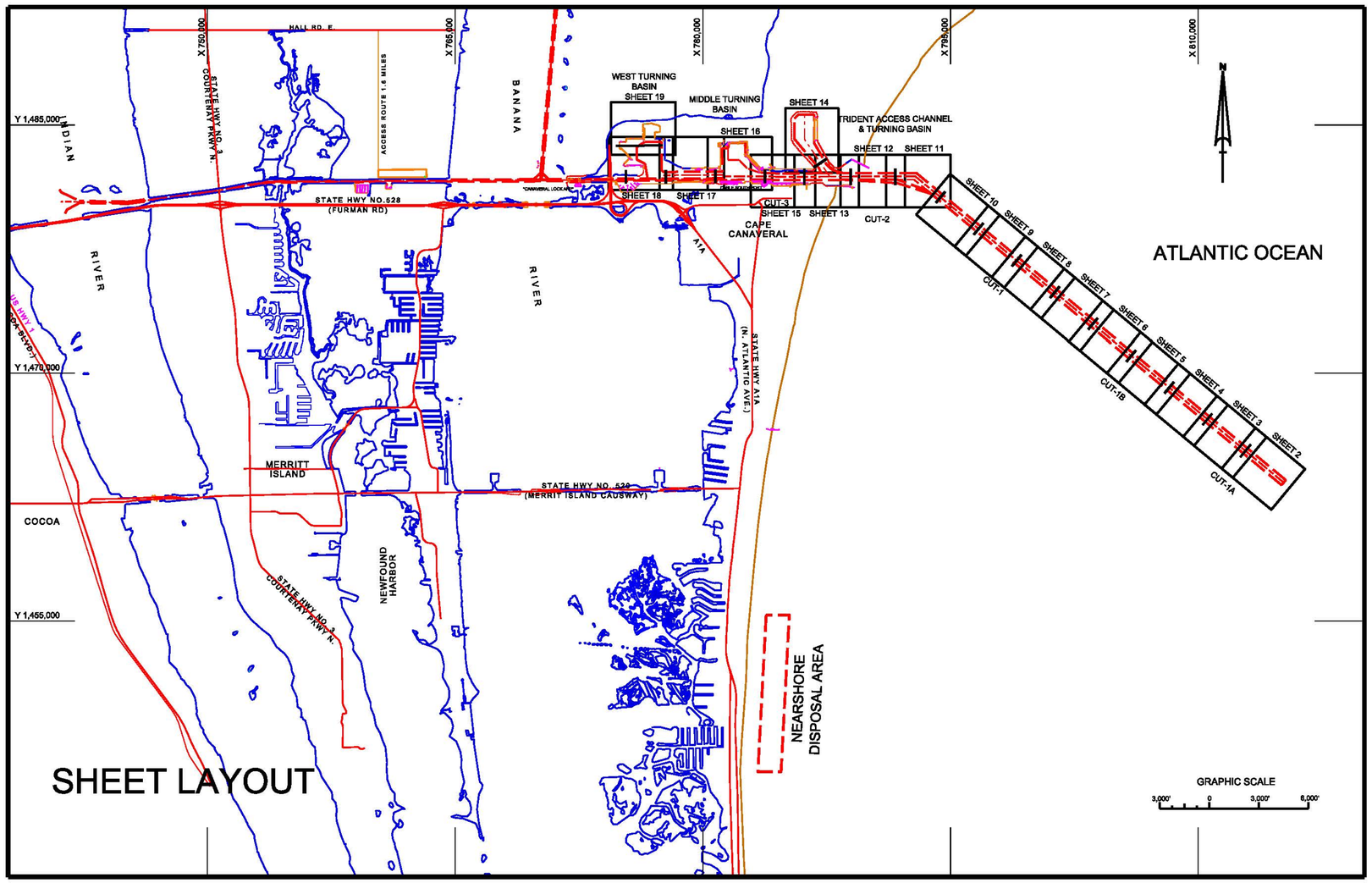
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
4th QUARTERLY FY13
EXAMINATION SURVEY



LOCATION MAP



SURVEY NOTES

1. REFER TO SURVEY NO. 13-165.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "PORTCANAVERAL-ONLY-06JULY2010.KTD".
4. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
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. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   "REFERENCE BASE LOCATED AT "CANAVERAL LOCK ARP" (OPUS PID: BBCV67)

   "TIDE STAFF LOCATED FROM "CABLE SOUTH PORT" (14.809' MLLW) (PID: BBBV18)

8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-1604 USED FOR ALL CUTS.

   VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ AND A R2 SONIC 2024 MULTI-BEAM TRANSDUCER OPERATING AT 240 KHZ. HIGH FREQUENCY SOUNDINGS ARE SHOWN FOR CUT-1A, CUT-A, AND THE WEST TURNING BASIN. ALL OTHER CUTS ARE SHOWN IN LOW FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
S/V FLORIDA II	05-06 APR 2013	CUTS 1, 1A, 1B
SB-32	26 AUG - 07 SEP 2013	CUT-2, TAC, TTB, TRIDENT DOCK, CUT-3, MTB, POSEIDON WHARF, CARGO PIER, WEST ACCESS CH., CUT-A, WEST TURNING BASIN

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
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
MONUMENT
LIGHTED BEACON
GREEN DAYBEACON
RED DAYBEACON
RED LIGHTED BUOY
GREEN LIGHTED BUOY
CAN BUOY
NUN BUOY
TIDE STAFF
8 PROJECT DEPTH

No.	Symbol	Zone	Description
N	△	A-N	ABCD

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

Cad by: DVT
Designed by: WRM
DWN by: WRM
Rev. No. - - -
Date: SEP 2013

13-165-C-SB-SHCDR.DGN
CANHBR-V-SB-SHCDR.DGN
CANHBR-V-SBMCCF.DGN
CH-LAYOUTS3.DGN

Reference files:
13-165-VH-001.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 40 & 44-FDOT PROJECT

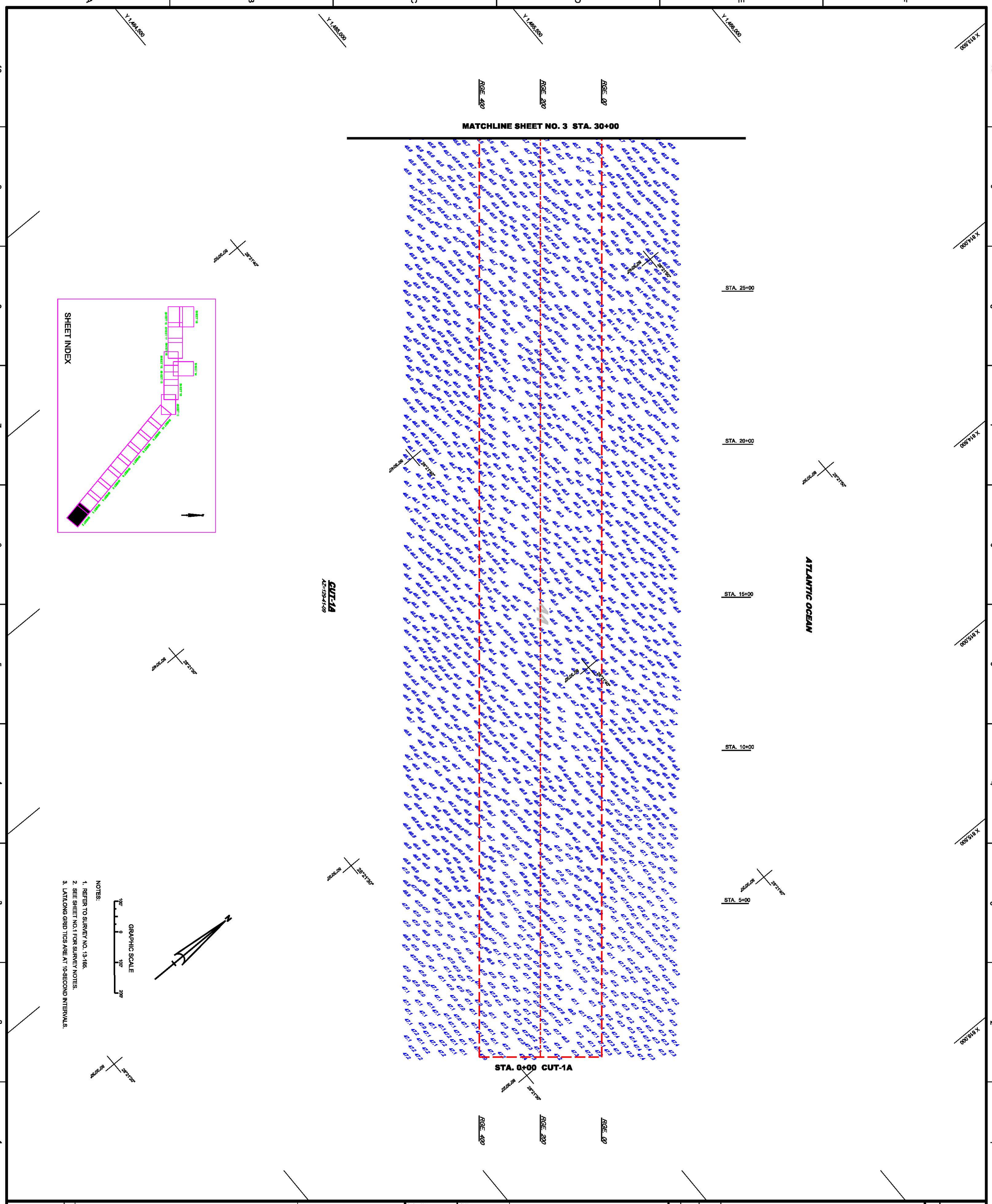
COVER SHEET
PLAN

Scale: AS SHOWN

Drawing no.

1

SHEET 1 OF 19



CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 0+00 THRU 30+00 CUT - 1A
PLAN

Scale: AS SHOWN
Drawing no. **2**
SHEET 2 OF 19

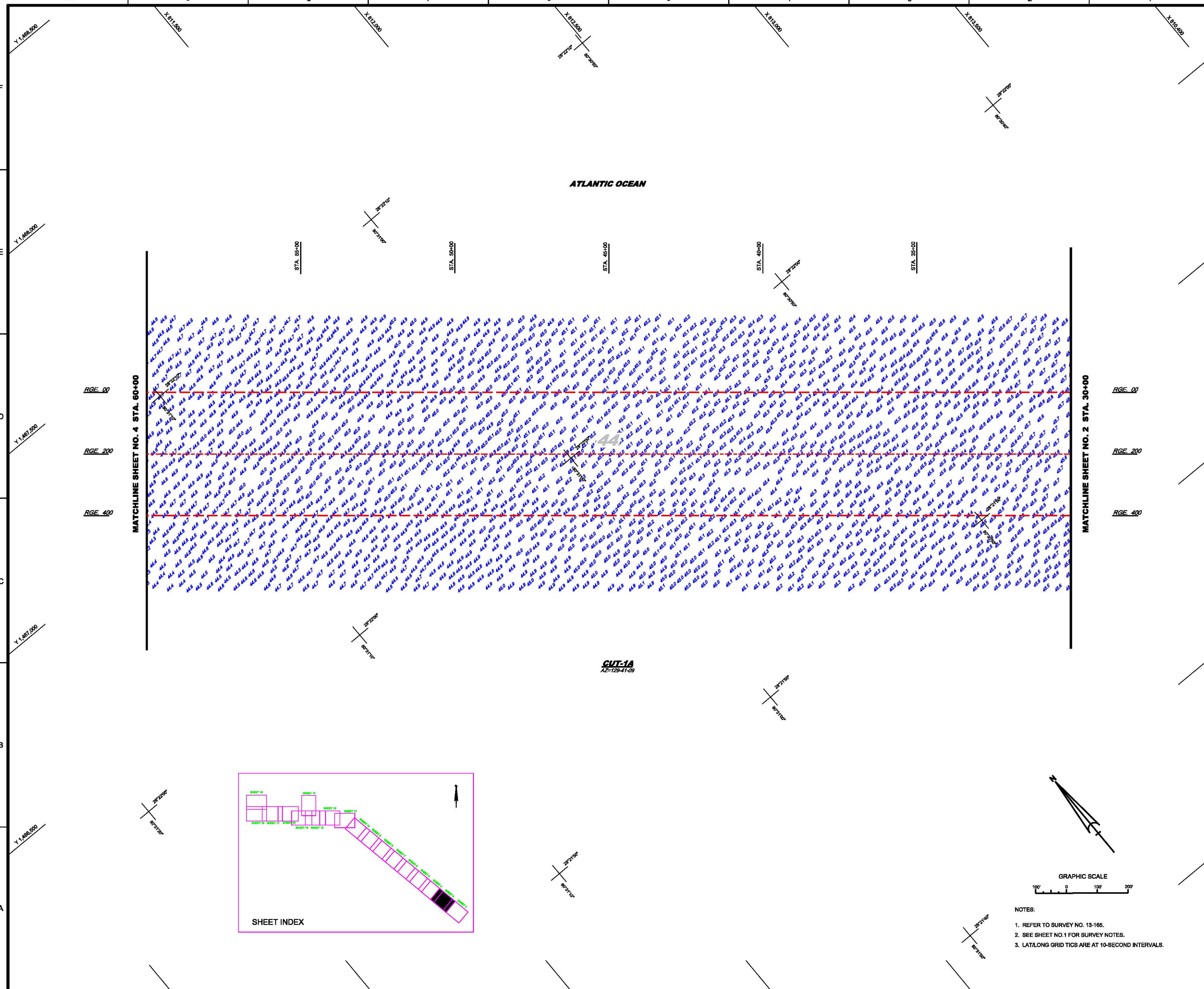
13-165-G-BS-BRDR.DGN
CANAVERAL HARBOR-V-SPMCCF.DGN
CHLLTICS.DGN
13-165-V-SOUN_C1A.DGN
Reference files:
13-165-VH-002.DGN
File name:

Designed by: WRM
Cad by: DVT
DWN by: WRM
Inv. No. - - -
Dated: SEP 2013

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

No.	Symbol	Zone	Description
N		A-N	ABCD

US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB DEPENDS ON YOU



NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Cad by: DVT
Designed by: WRM
DWN by: WRM
Rev. No. ---
Dated: SEP 2013

13-165-G-RB-20120.DGN
CANAVERAL HARBOR-V-0PMCOF.DGN
CHLLTICS.DGN
13-165-V-SOUN_C1A.DGN

Reference files:

13-165-VH-003.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

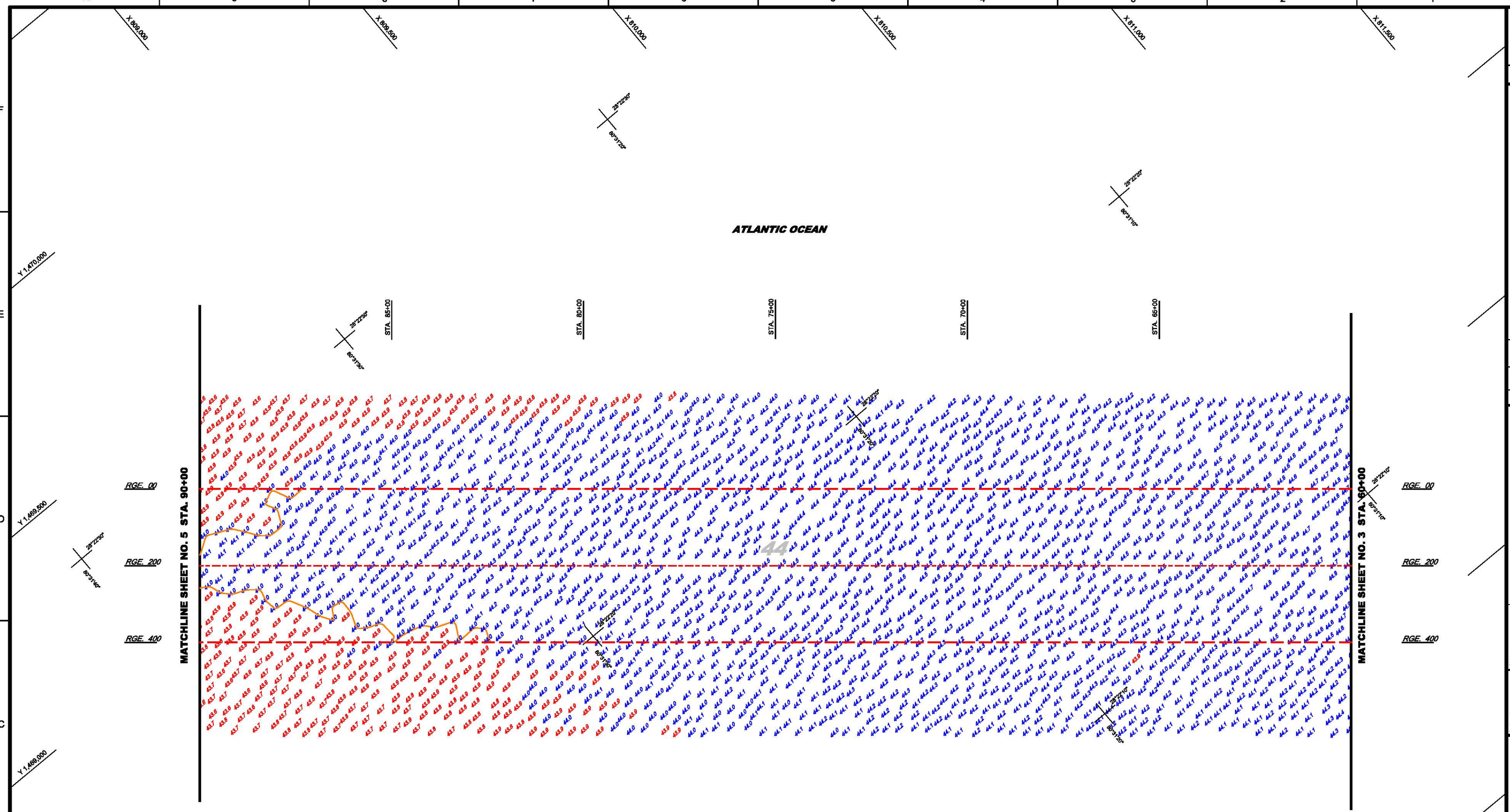
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 30+00 THRU 60+00 CUT - 1A
PLAN

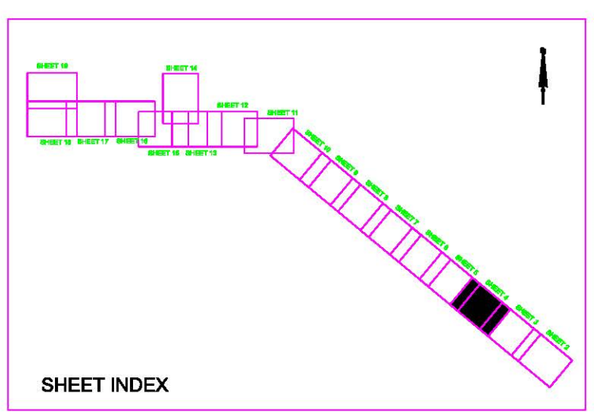
Scale: AS SHOWN

Drawing no.

3

SHEET 3 OF 19





GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Cad by: DVT
Designed by: WRM
DWN by: WRM
Dwg No. ---
Dated: SEP 2013

13-165-G-SB-BRDR.DGN
CANAVERAL HARBOR-V-SPHCOF.DGN
CHLLTICS.DGN
13-165-V-SOUN_C1A.DGN
13-165-V-CONM.DGN
Reference files:

13-165-VH-C04.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

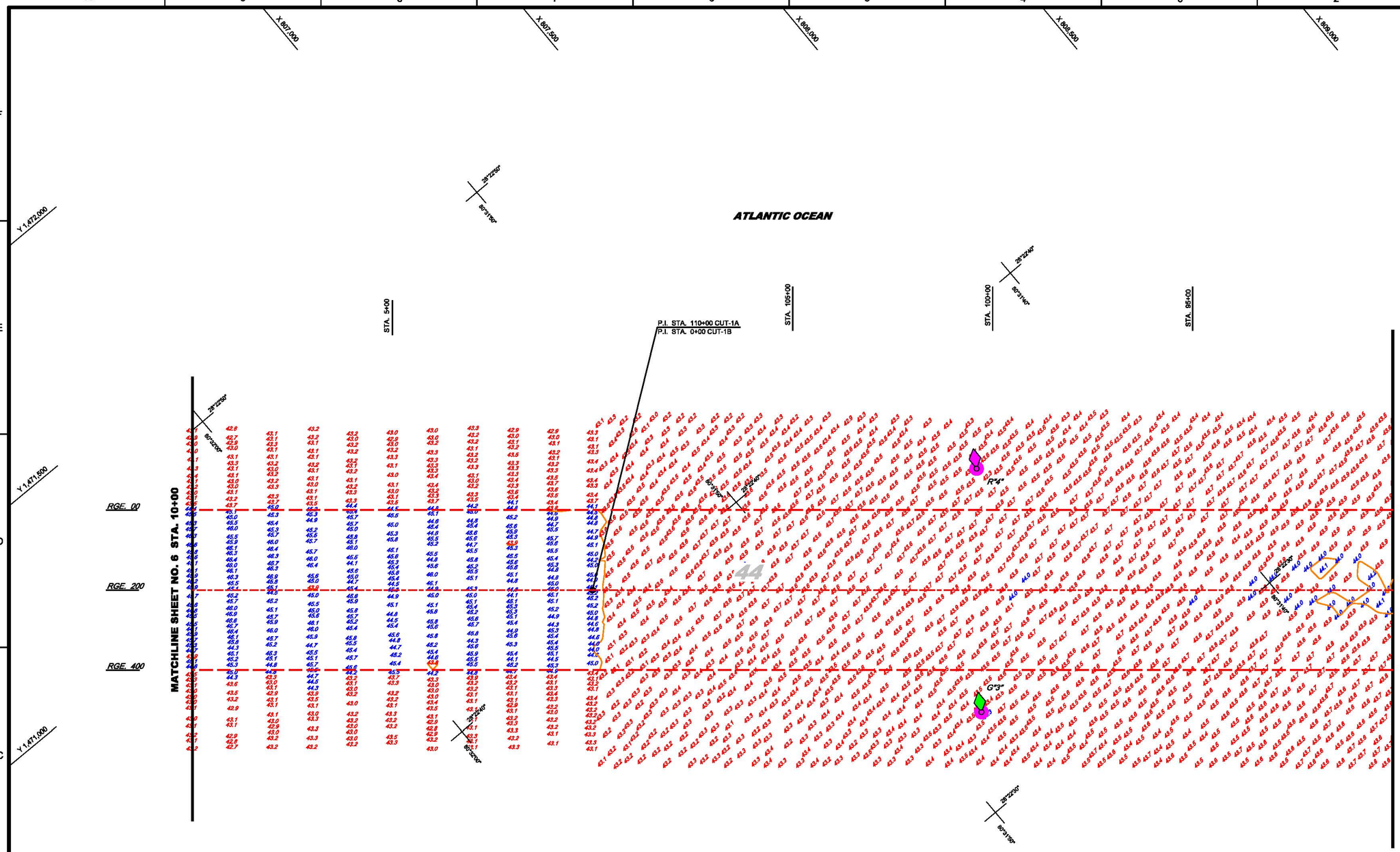
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 60+00 THRU 90+00 CUT - 1A
PLAN

Scale: AS SHOWN

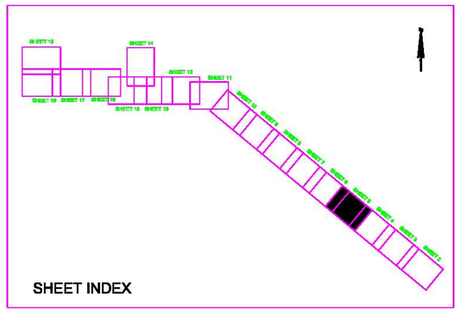
Drawing no.

4

SHEET 4 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (09/13)	807,257	1,469,551	28-22-32.12	80-31-48.49
LT. BUOY-4 (09/13)	807,637	1,470,027	28-22-36.82	80-31-44.22



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
Cad by: DVT
DWN by: WRM
Inv. No. - - -
Dated: SEP 2013

13-165-G-SE-BRDR.DGN
CANAVERAL HARBOR V-SPMCCF.DGN
CELLTICS.DGN
13-165-V-SOUN_C18.DGN
13-165-V-NAVCH_C18.DGN
13-165-V-NAVCH.DGN
13-165-V-CON44.DGN

Reference files:

13-165-VH-005.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

46th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 40 & 44-FOOT PROJECT

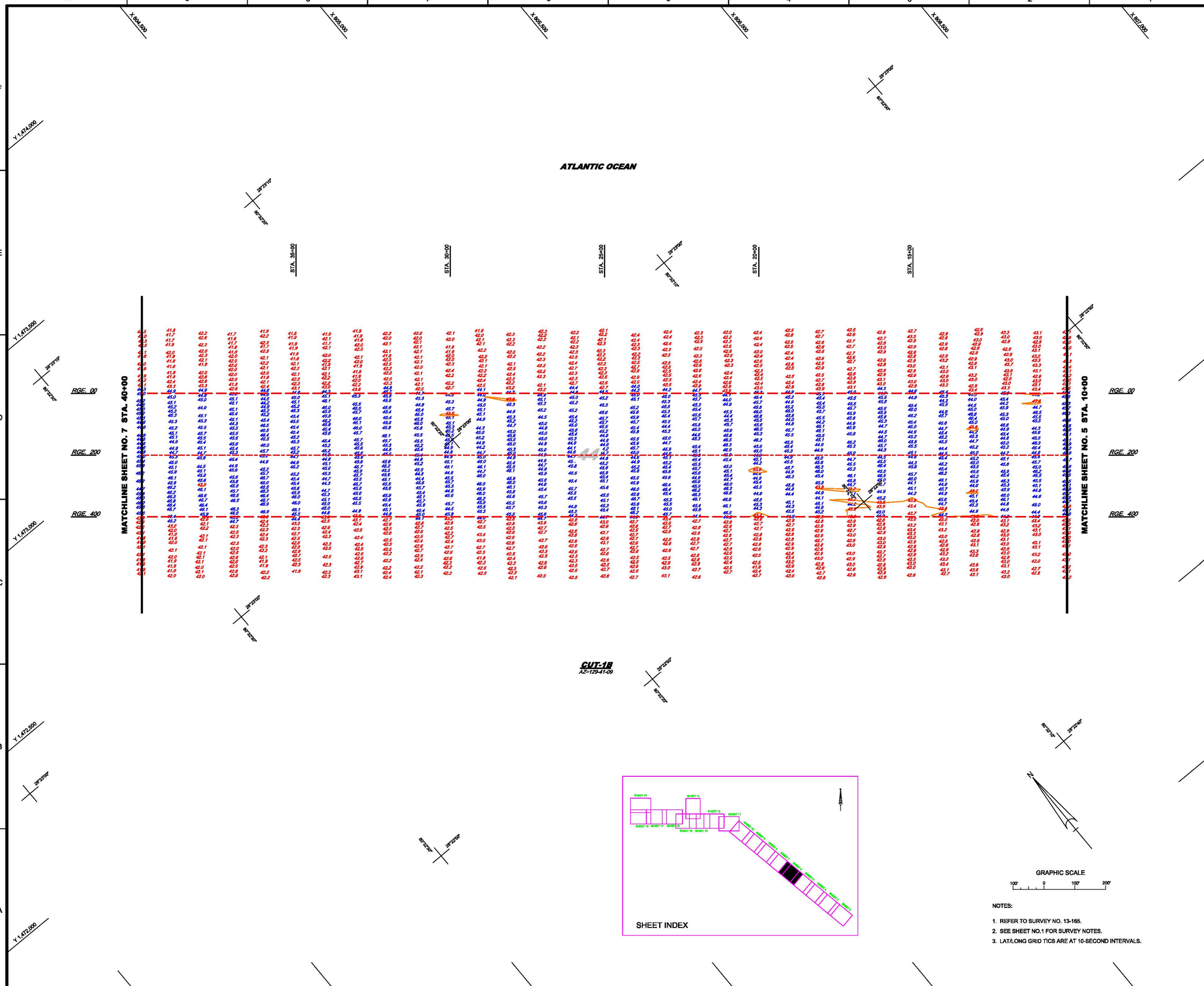
STA. 90+00 CUT - 1A THRU STA. 10+00 CUT - 1B PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 5 OF 19



NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Inv. No. - - -
Dated: SEP 2013

13-165-G-BG_BRDR.DGN
CANAVERAL HARBOR V-SPMCCF.DGN
CILLTICS.DGN
13-165-V-SOUN_C1B.DGN
13-165-V-CONM.DGN

Reference files:
13-165-VH-006.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

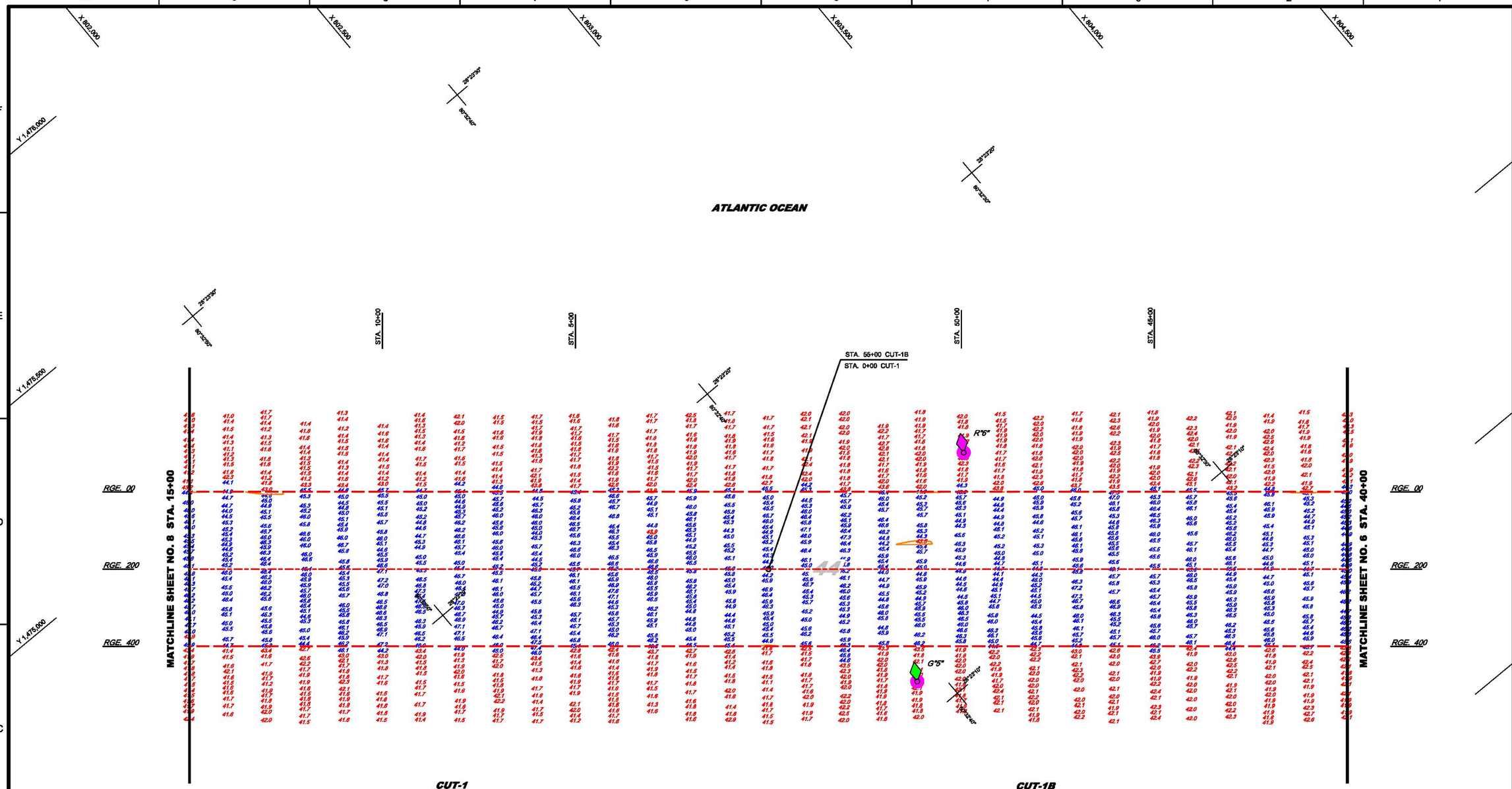
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT - 1B
PLAN

Scale: AS SHOWN

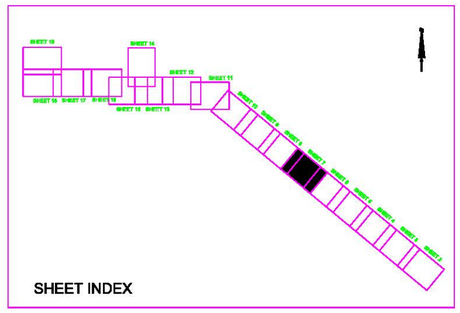
Drawing no.

6

SHEET 6 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (09/13)	802,583	1,473,449	28-23-10.89	80-32-40.66
LT. BUOY-6 (09/13)	803,053	1,473,828	28-23-14.63	80-32-35.37



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
Cad by: DVT
DWN by: WRM
Inv. No. - - -
Dated: SEP 2013

13-165-C-SIG_BRDR.DGN
CANAVERAL HARBOR-V-SPMCCF.DGN
CELLTICS.DGN
13-035-V-SOUN_C1B.DGN
13-165-V-SOUN_C1.DGN
13-165-V-SOUN-CONN.DGN
13-165-V-NAV.DGN

Reference files:

13-165-VH-007.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

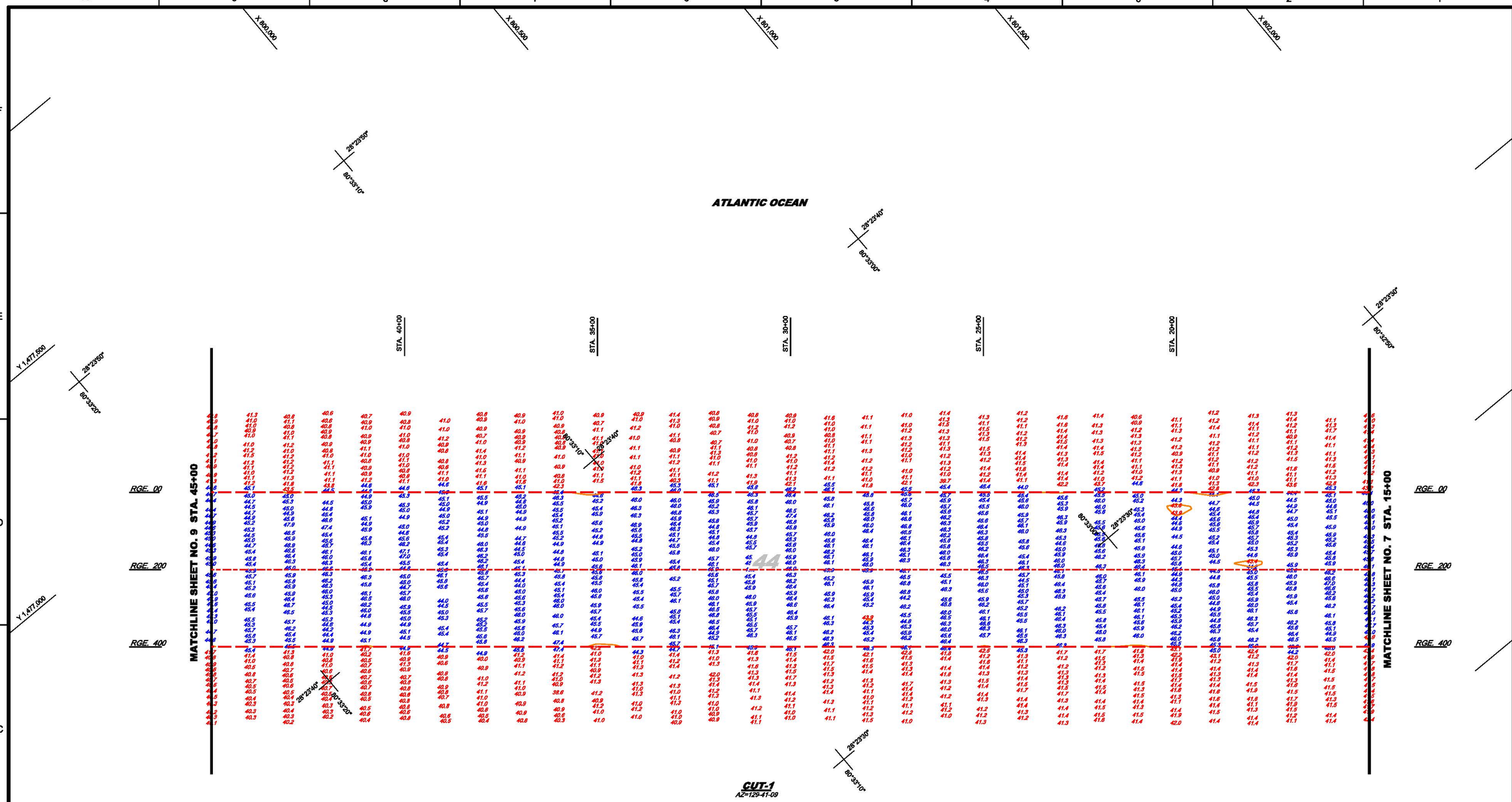
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 40+00 CUT - 1B THRU STA. 15+00 CUT - 1
PLAN

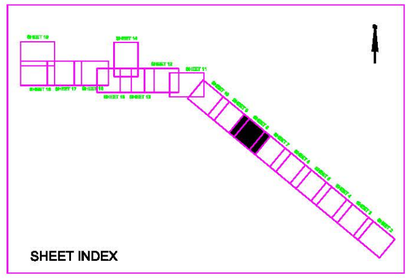
Scale: AS SHOWN

Drawing no.

7

SHEET 7 OF 19





SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Designed by: WRM
Cad by: DVT
DWN by: WRM
Rev. No. ---
Dated SEP 2013

13-165-G-SE-SHOR.DGN
CANAVERAL HARBOR-V-SPMCCF.DGN
CHLTICS.DGN
13-165-V-SOUN_C1.DGN
13-165-V-CONM4.DGN

Reference files:
13-165-VH-008.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

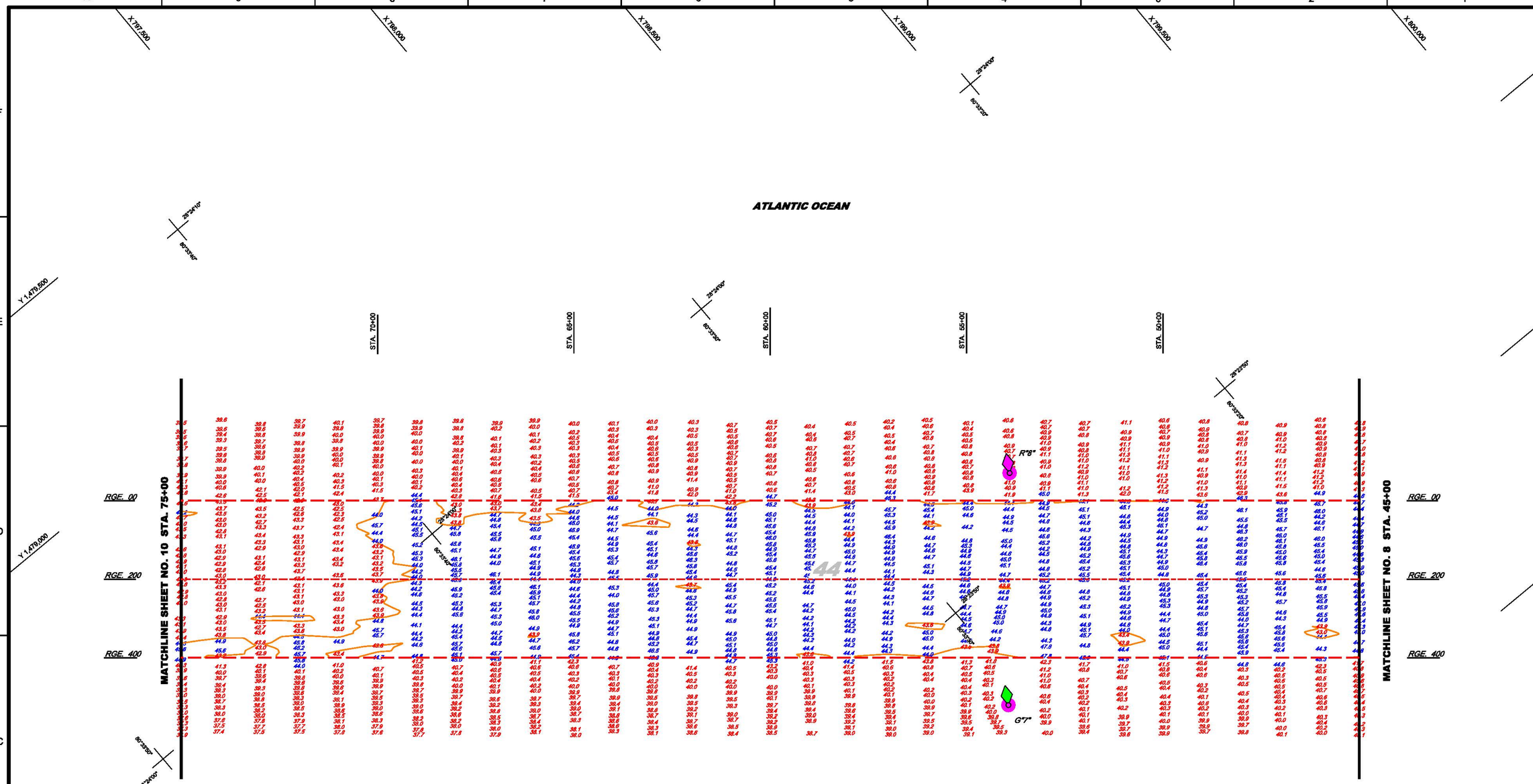
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 15+00 THRU STA. 45+00 CUT - 1
PLAN

Scale: AS SHOWN

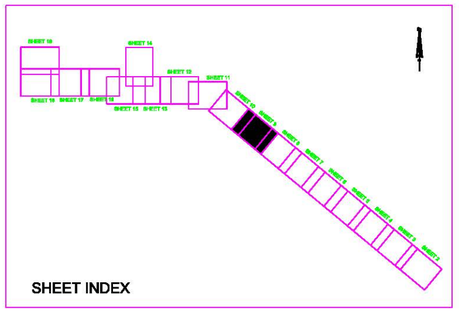
Drawing no.

8

SHEET 8 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (09/13)	798,116	1,477,116	28-23-47.37	80-33-30.51
LT. BUOY-8 (09/13)	798,496	1,477,569	28-23-51.84	80-33-26.24



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Ckd by: DVT
Rev. No. ---
Dated: SEP 2013

13-165-C-BS-SHCR.DGN
CANAVERAL HARBOR-V-SPMCCF.DGN
CH-LTICS.DGN
13-165-V-SOUN_C1.DGN
13-165-V-SOUN_C2.DGN
13-165-V-NAV.DGN

Reference files:
13-165-VH-009.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

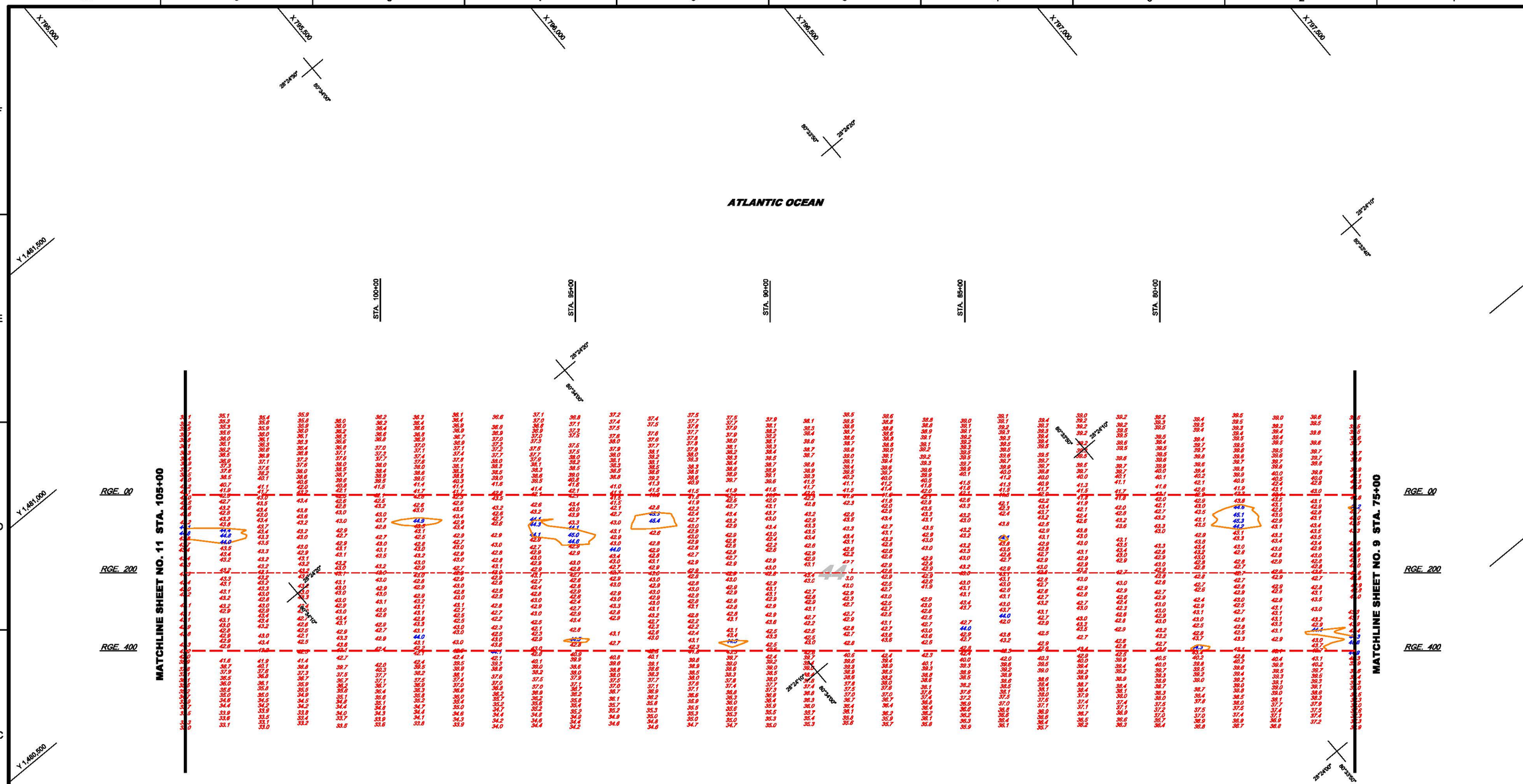
31, 35, 39, 41, 40 & 44-FDOT PROJECT
STA. 45+00 THRU STA. 75+00 CUT - 1
PLAN

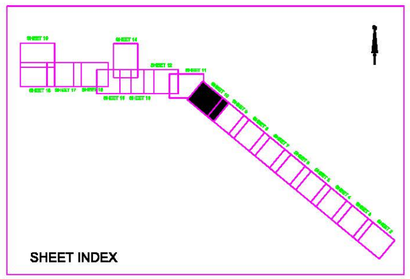
Scale: AS SHOWN

Drawing no.

9

SHEET 9 OF 19





GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Designed by: WRM
Cad by: DVT
DWN by: WRM
Inv. No. - - -
Dated: SEP 2013

13-165-C-BS-BKOR.DGN
CANAVERAL HARBOR V-SPNCCF.DGN
CHLITICS.DGN
13-165-V-SOUN_C1.DGN
13-165-V-CON44.DGN

Reference files:
13-165-VH-010.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 75+00 THRU STA. 105+00 CUT - 1
PLAN

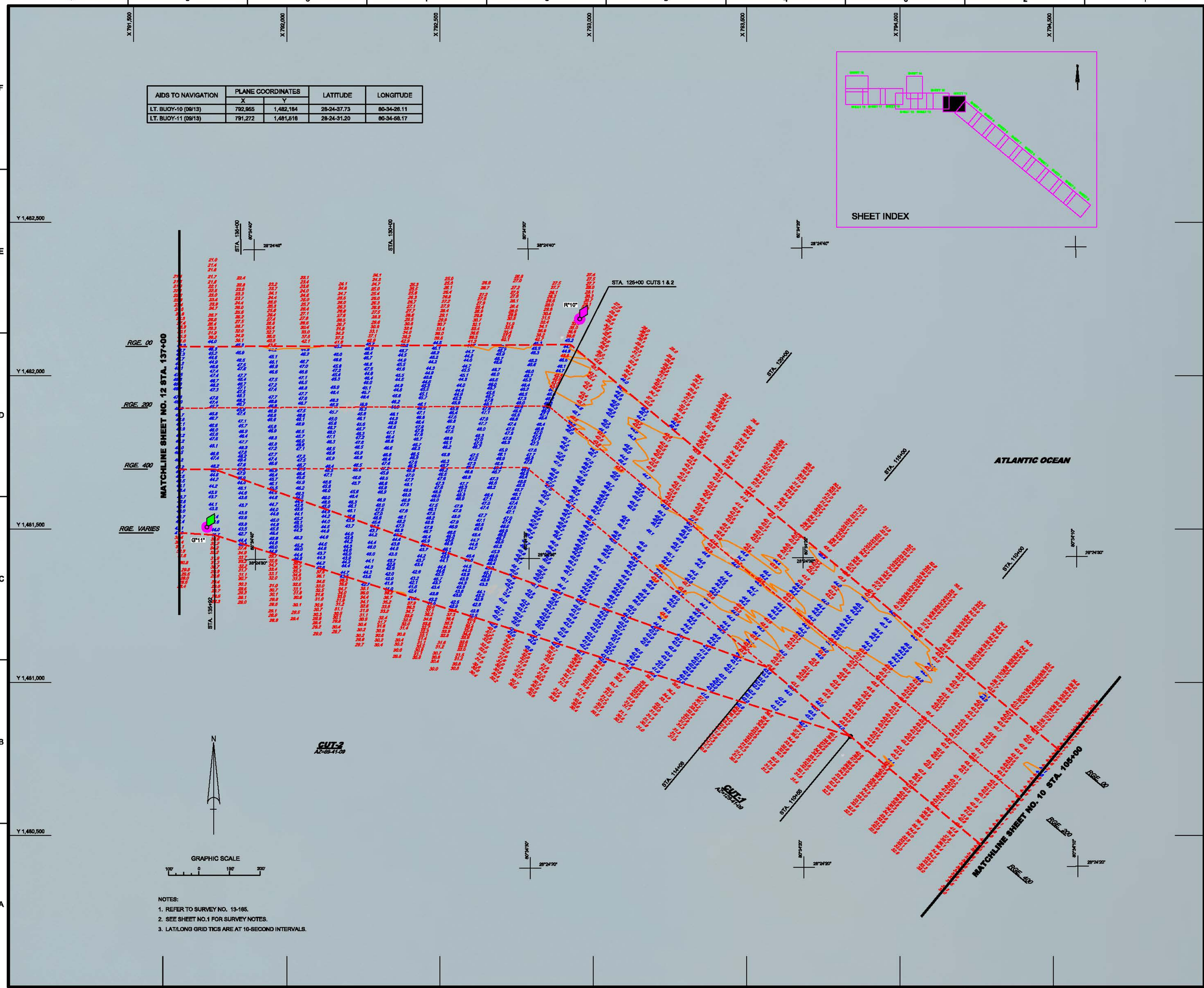
Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 19

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (09/13)	792,955	1,482,184	28-24-37.73	80-34-28.11
LT. BUOY-11 (09/13)	791,272	1,481,516	28-24-31.20	80-34-58.17



NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-H	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Rev. No. ---
Date: SEP 2013

13-165-F-06-SECD.DGN
CANAVERAL-HARBOR-V-SPMCCF.DGN
CHILTICS.DGN
13-165-V-SOUN_C1.DGN
13-165-V-SOUN_C2.DGN
13-165-V-CONN1.DGN
13-165-V-CONN4.DGN
13-165-V-MAV.DGN
Reference files
13-165-VH-011.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

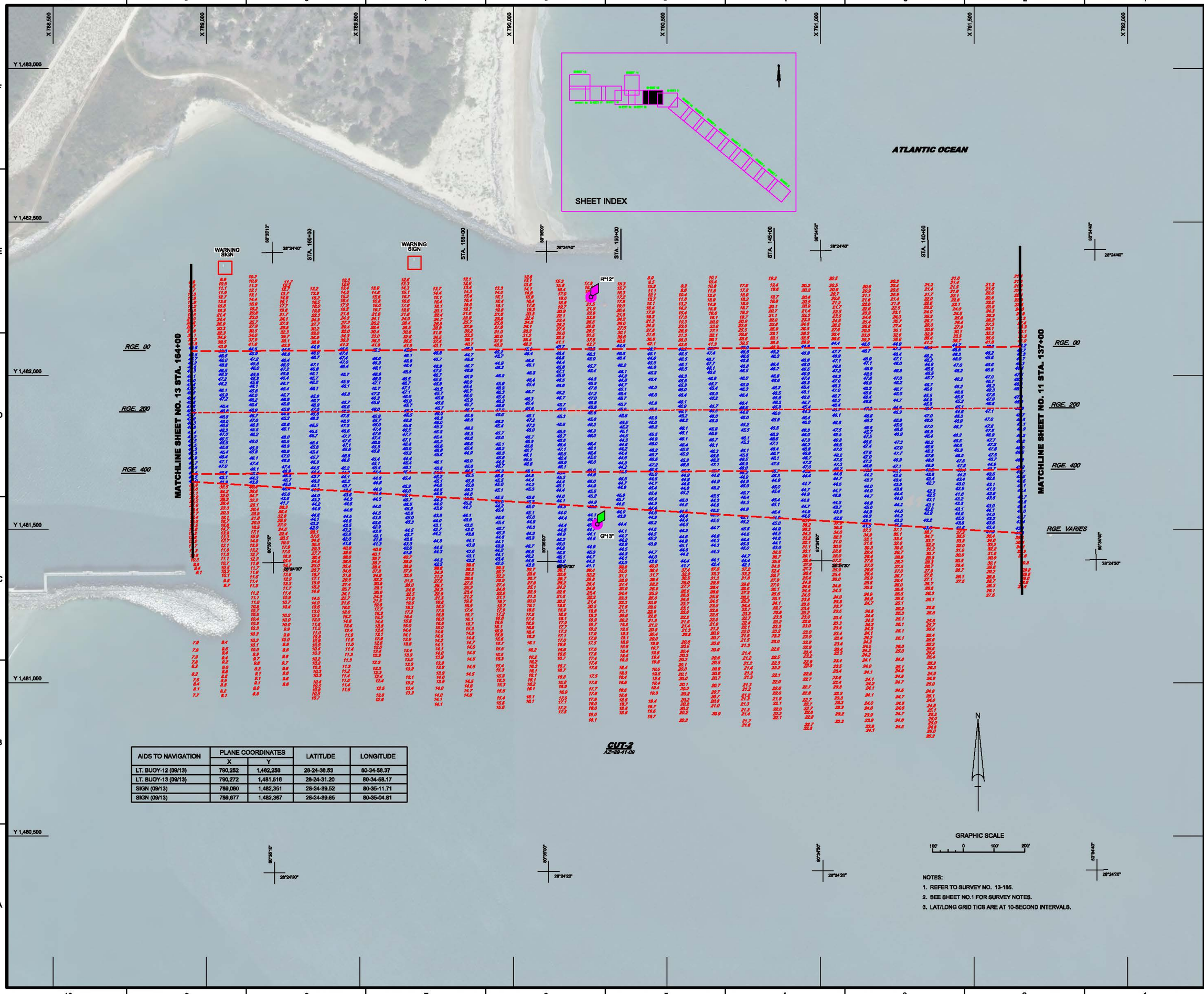
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 105+00 CUT - 1 THRU STA. 137+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.

11

SHEET 11 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-12 (09/13)	790,252	1,482,258	28-24-38.53	80-34-58.37
LT. BUOY-13 (09/13)	790,272	1,481,516	28-24-31.20	80-34-58.17
SIGN (09/13)	789,060	1,482,351	28-24-39.52	80-35-11.71
SIGN (09/13)	789,677	1,482,367	28-24-39.65	80-35-04.81

NOTES:

1. REFER TO SURVEY NO. 13-185.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Rev. No. - - -
Date: SEP 2013

13-195-E-RB-FIXED.DGN
CANAVERAL HARBOR-4-SPMCCF.DGN
CHLTTCB.DGN
13-165-V-SOUN_C2.DGN
13-165-V-COMM.DGN
13-165-V-CONTROL.DGN
13-165-V-NAV.DGN

Reference files:
13-165-VH-012.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

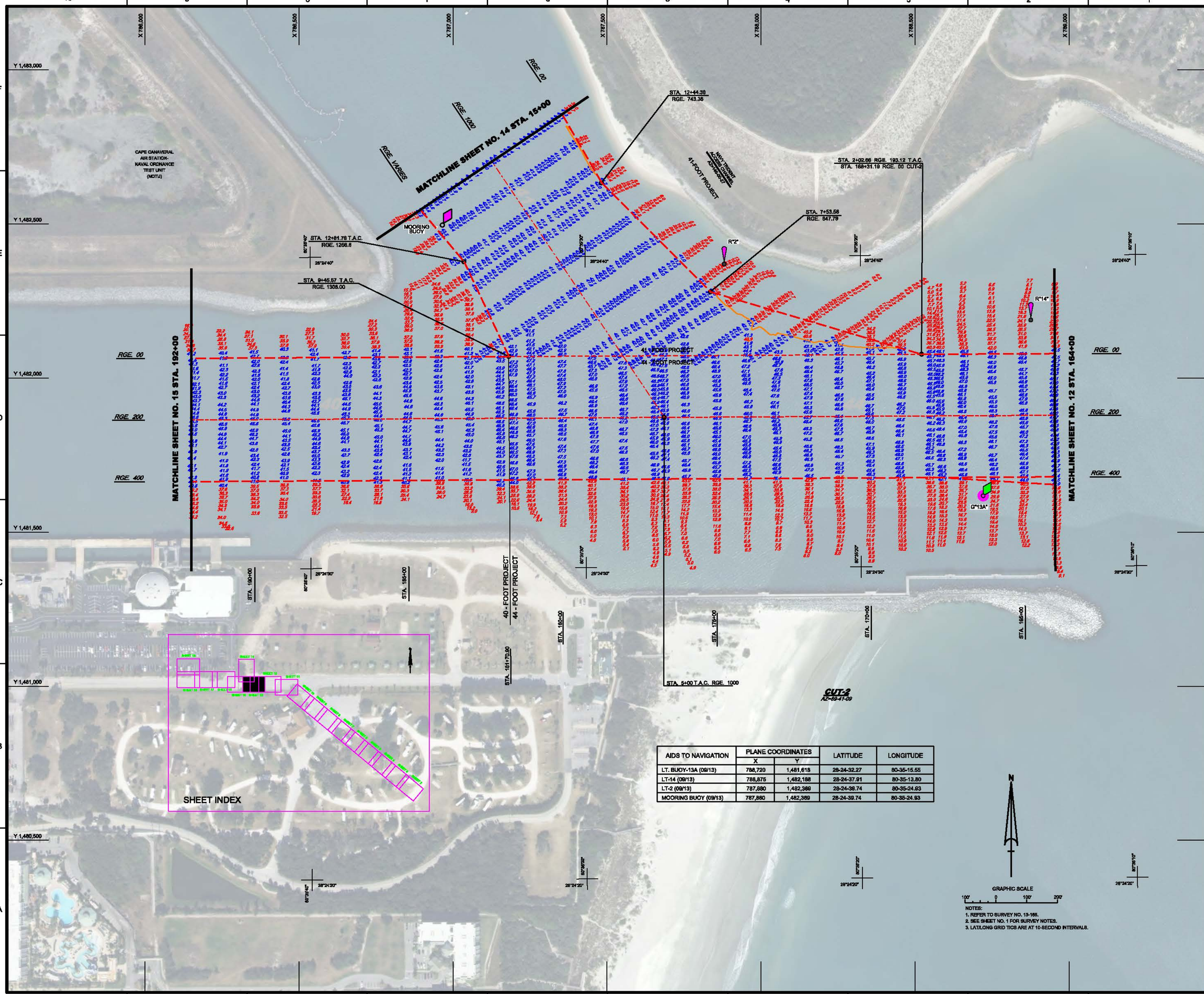
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 137+00 THRU STA. 164+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.

12

SHEET 12 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-13A (09/13)	788,720	1,481,618	28-24-32.27	80-35-15.55
LT-14 (09/13)	788,875	1,482,188	28-24-37.91	80-35-13.80
LT-2 (09/13)	787,880	1,482,389	28-24-39.74	80-35-24.93
MOORING BUOY (09/13)	787,880	1,482,389	28-24-39.74	80-35-24.93

NOTES:
1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	ABCD	Description
1	A	A-H		

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Rev. No. - - -
Date: SEP 2013

13-165-E-RB-SHEET.DGN
CANAVERAL HARBOR-V-SPINCOF.DGN
CHILTCS.DGN
13-165-V-SOUN_ALL.DGN
13-165-V-CONT.DGN
13-165-V-CONM.DGN
13-165-V-CONH.DGN

Reference files:
13-165-VH-013.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

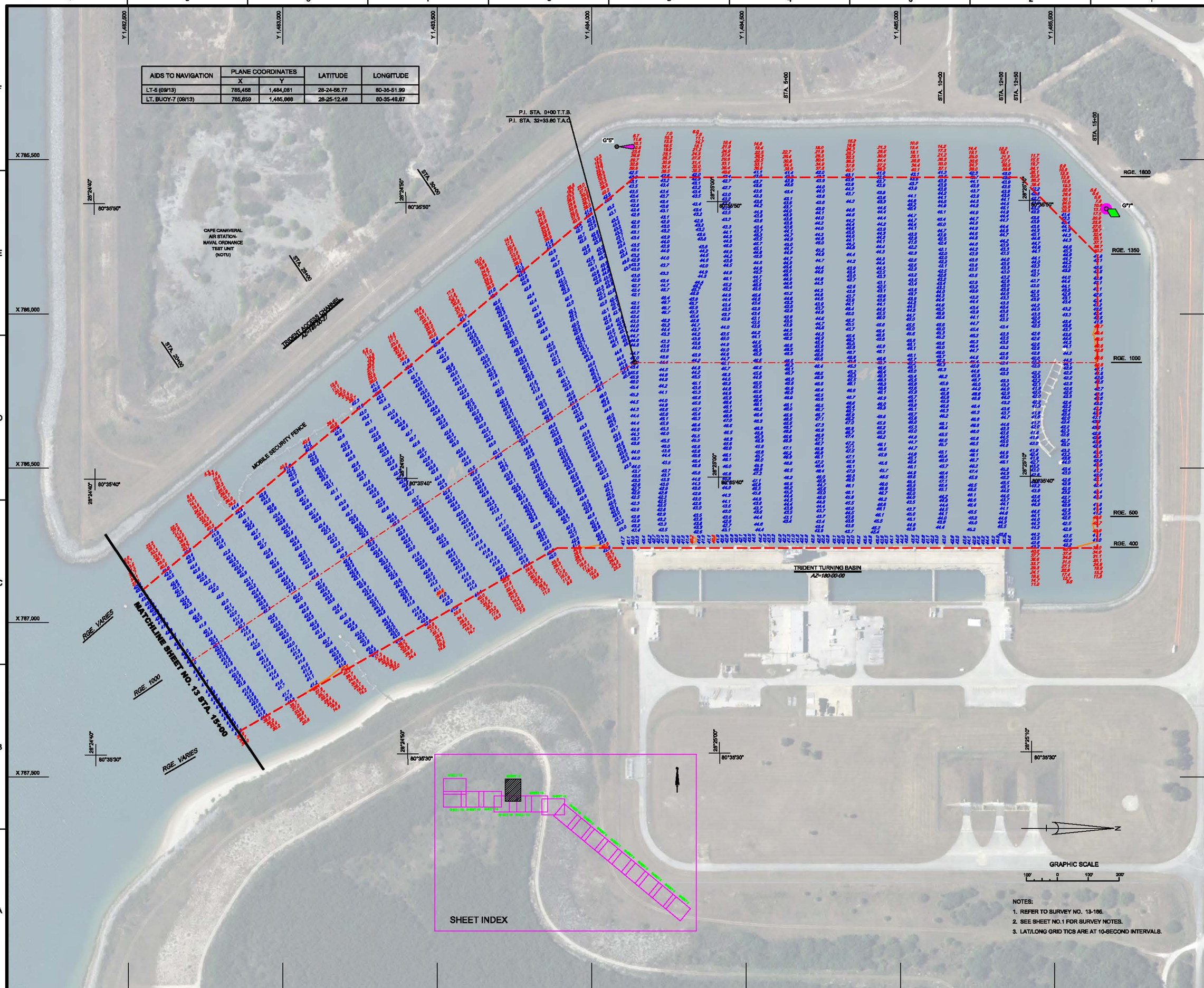
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 164+00 THRU STA. 192+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.
13

SHEET 13 OF 19

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-5 (09/13)	785,458	1,484,081	28-24-56.77	80-35-51.99
LT. BUOY-7 (09/13)	785,659	1,485,066	28-25-12.48	80-35-49.67



NOTES:

1. REFER TO SURVEY NO. 13-165.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	ABCD	Description
1		A-H		

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Rev. No. ---
Date: SEP 2013

13-165-C-SB-SECD.DGN
CANAVERAL-HARBOR-V-SPMCCF.DGN
CHILTICS.DGN
13-165-V-SOUN_TACT.DGN
13-165-V-SOUN_TTB.DGN
13-165-V-SOUN_TTBF.DGN
13-165-V-NAV.DGN
13-165-V-COM1.DGN
Reference files

13-165-V-H-014.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

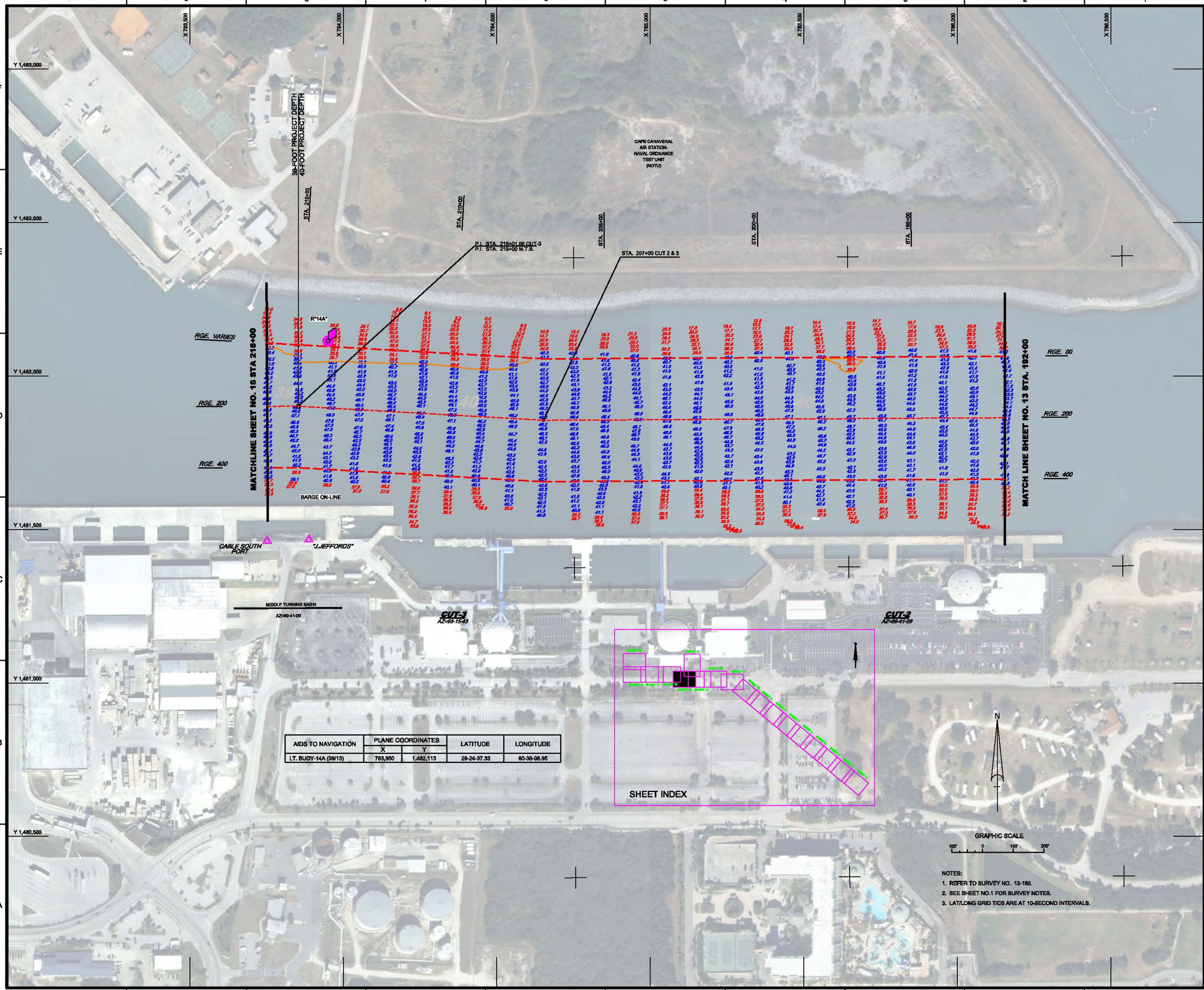
31, 35, 39, 41, 40 & 44-FOOT PROJECT
TRIDENT ACCESS CHANNEL & TURNING BASIN
PLAN

Scale: AS SHOWN

Drawing no.

14

SHEET 14 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-14A (09/13)	783,950	1,482,113	28-24-37.33	80-36-08.95

NOTES:

1. REFER TO SURVEY NO. 13-166.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	ABCD	Description
1	A	A-H		

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT

Rev. No. - - -
Date: SEP 2013

13-166-SOUN_CD.DGN
CANAVERAL HARBOR-FY13-SPACCF.DGN
CHLLTICS.DGN
13-166-SOUN_CD.DGN
13-166-SOUN_LRTB.DGN
13-166-SOUN_LRTB.DGN
13-166-V-CONN8.DGN
13-166-V-CONN8.DGN
13-166-V-CONN8.DGN
Reference files:

13-166-HAV.DGN
13-166-VH-015.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

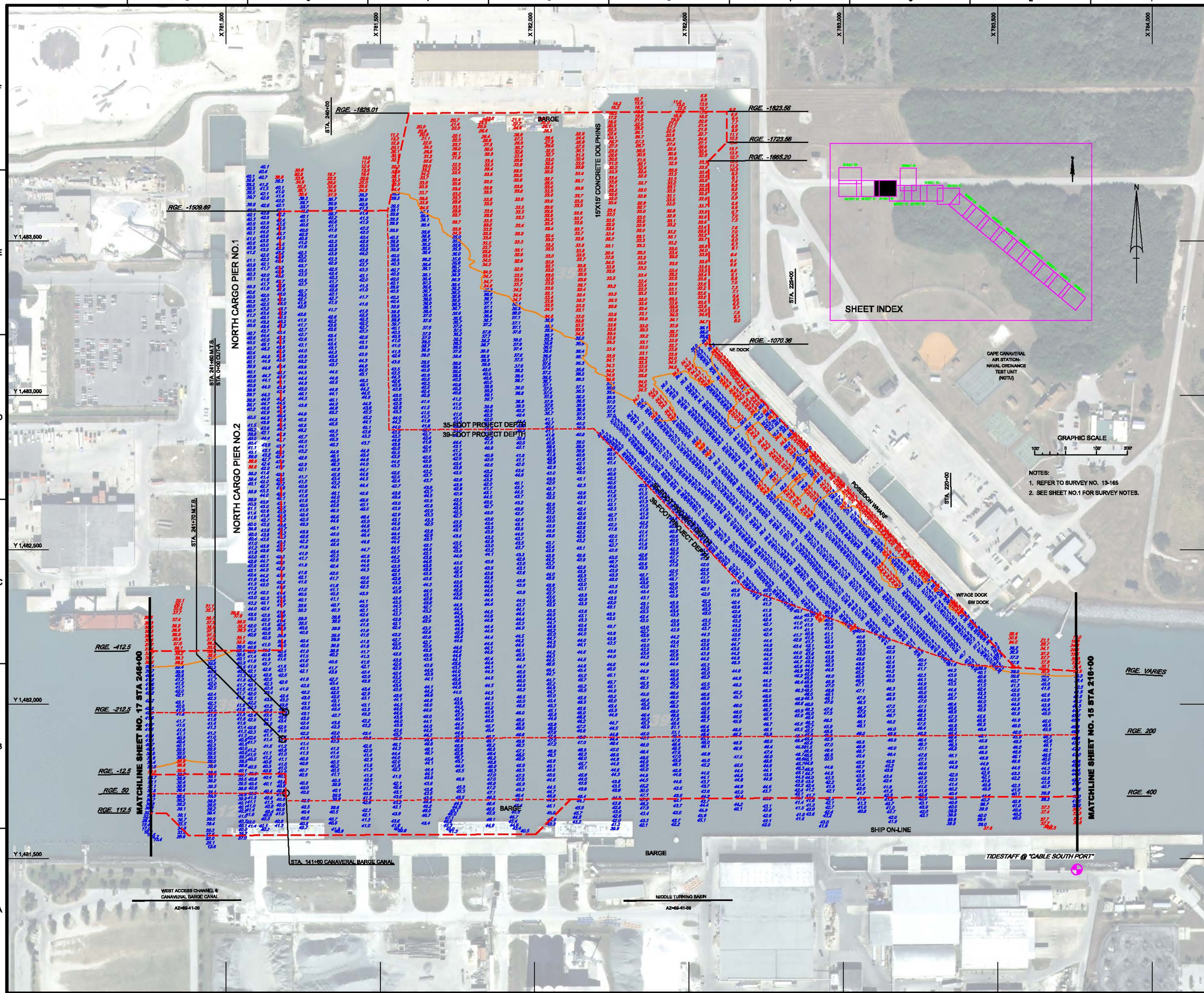
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 192+00 CUT - 2 THRU STA. 216+00 M.T.B.
PLAN

Scale: AS SHOWN

Drawing no.

15

SHEET 15 OF 19



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
1	A	A-H	ABCD

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

Date by: DVT
Designed by: WRM
Drawn by: WRM
Rev. No. - - -
Date: SEP 2013

13-165-E-SHEET.DGN
CANAVERAL HARBOR-4-SPNICCF.DGN
13-165-V-SOUN_SORTED_ALL.DGN
13-165-V-CONTS.DGN
13-165-I-CONTS.DGN

Reference files:
13-165-VH-016.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

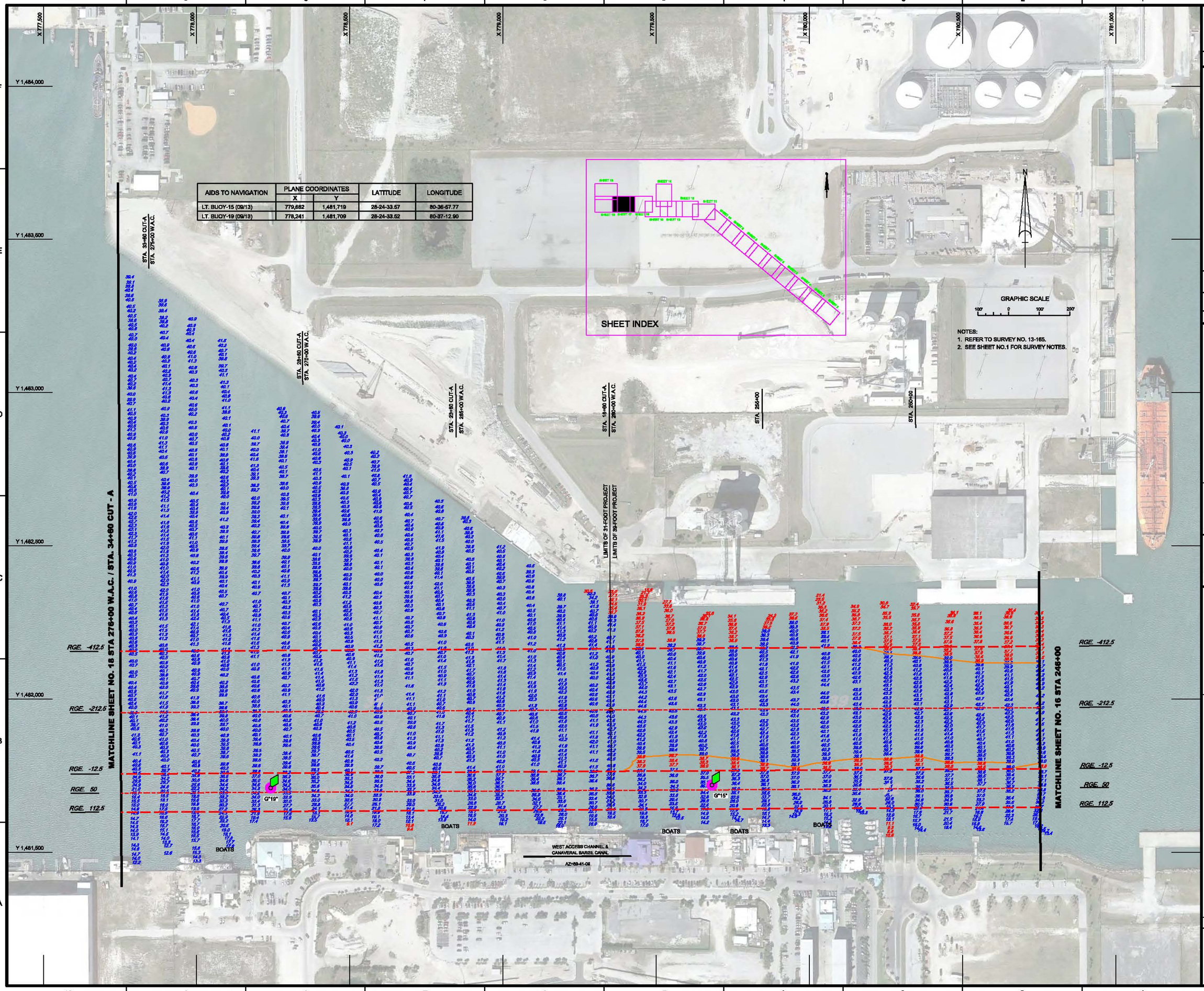
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 216+00 M.T.B. THRU STA. 248+00 W.A.C.
PLAN

Scale: AS SHOWN

Drawing no.
16

SHEET 16 OF 19

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-15 (09/13)	779,682	1,481,719	28-24-33.57	80-36-57.77
LT. BUOY-19 (09/13)	778,241	1,481,709	28-24-33.52	80-37-12.90



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-H	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Div. No. - - -
Date: SEP 2013

13-165-E-BE-01100.DGN
CANAVERAL HARBOR_ARPNACCF.DGN
13-165-V-SOUN_WAC-WTB_MB_HP.DGN
13-165-X-CON58.DGN
13-1650-1-HAV1.DGN

Reference files:
13-165-V-017.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

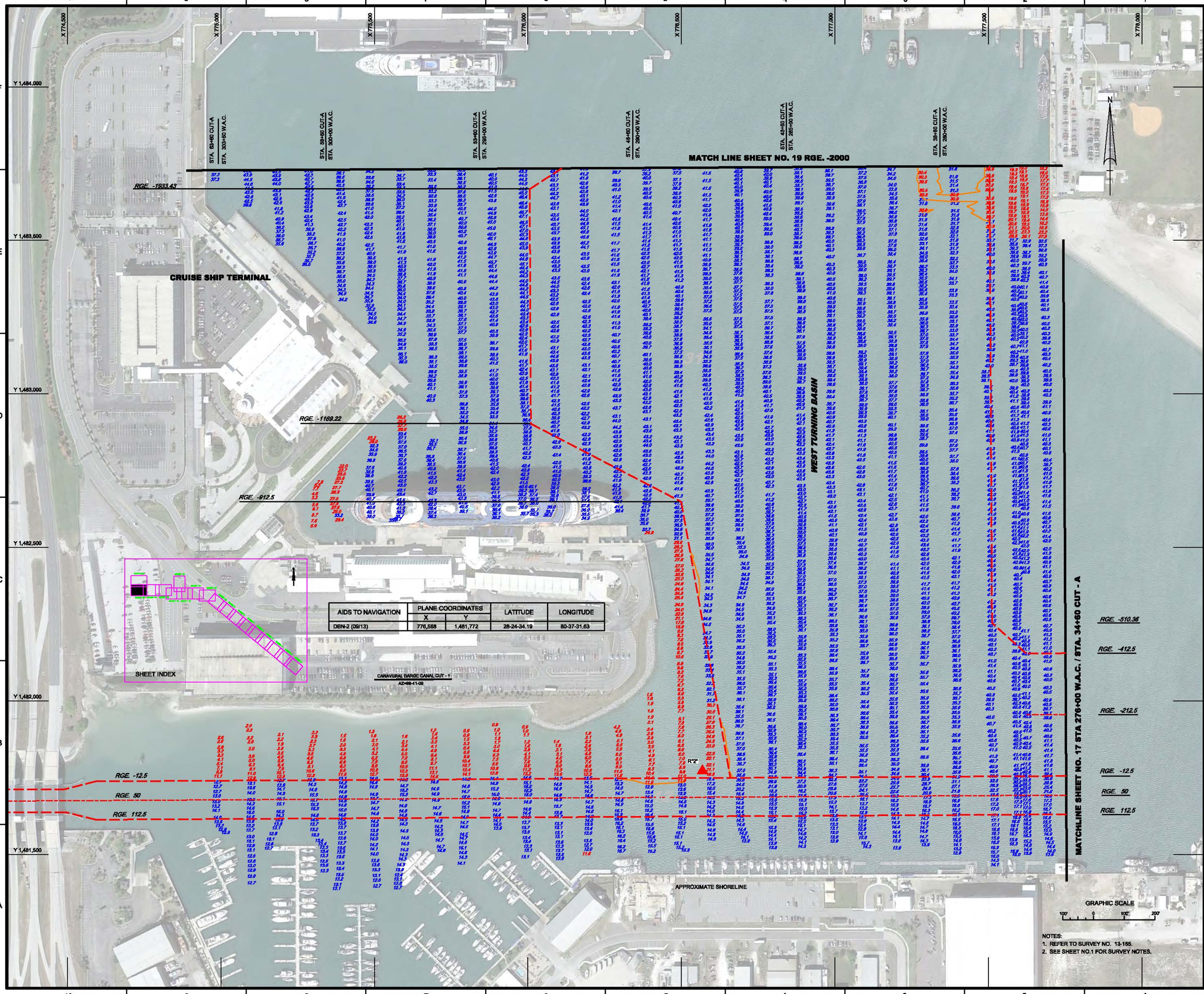
31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 246+00 THRU STA. 276+00 W.A.C.
PLAN

Scale: AS SHOWN

Drawing no.

17

SHEET 17 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-2 (09/13)	776,568	1,481,772	28-24-34.19	80-37-31.63

NOTES:
1. REFER TO SURVEY NO. 13-155.
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
N	A	A-H	ABCD

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

Checked by: DVT
Drawn by: WRM
Designed by: WRM
Rev. No. - - -
Date: SEP 2013

13-155-JLB-SHEET.DGN
CANAVERAL HARBOR-4-SPMCCF.DGN
13-155-V-SOUN_WTB.DGN
13-155-V-SOUN_CTA.DGN
13-155-V-SOUN_CTB.DGN
13-155-V-CONTS.DGN
13-155-V-NAV.DGN

Reference files:
13-155-VH-018.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

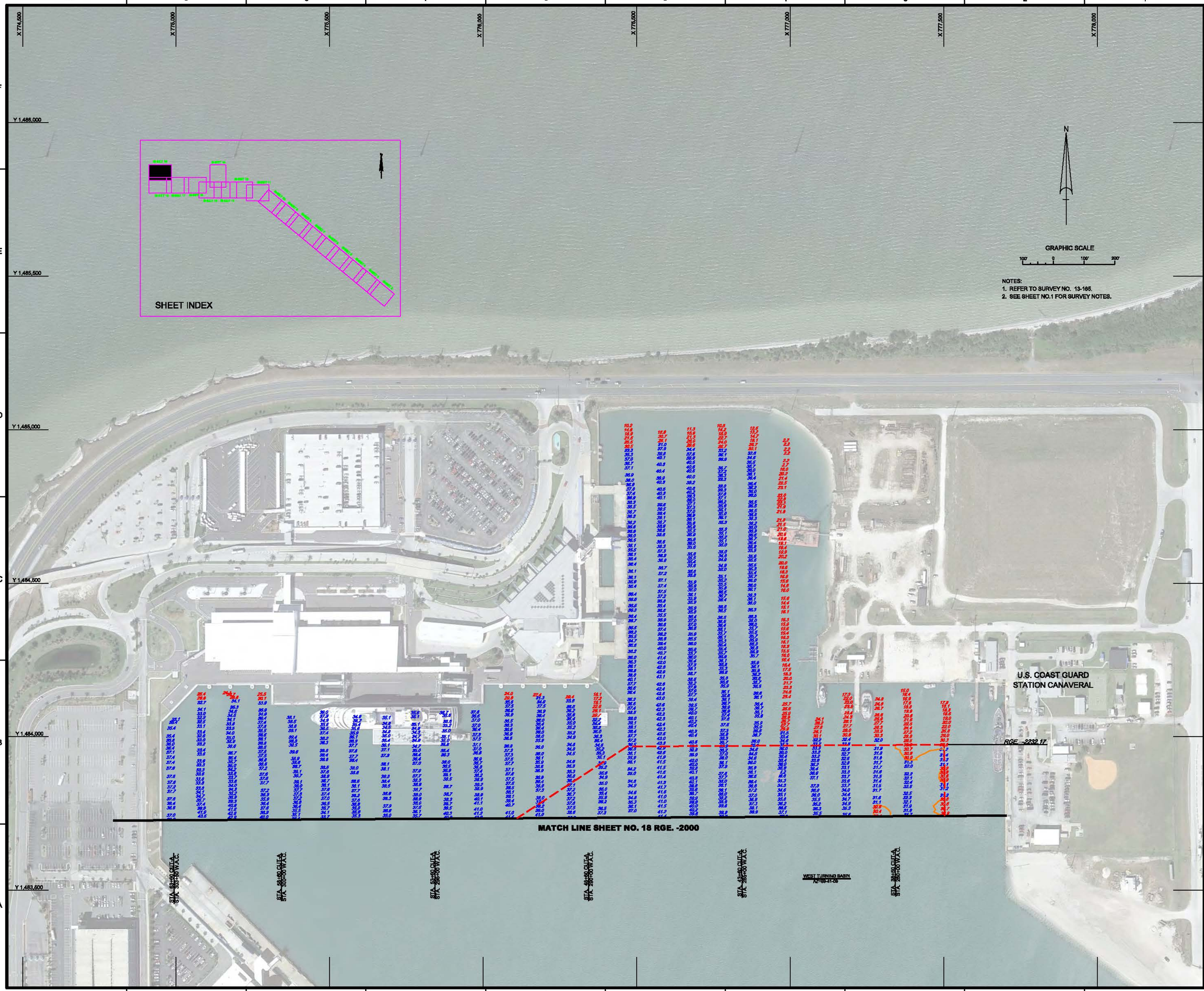
4th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 46 & 44-FOOT PROJECT
STA. 276+00 THRU STA. 306+00 W.A.C.
PLAN

Scale: AS SHOWN

Drawing no.
18

SHEET 18 OF 19



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: DVT
Rev. No. - - -
Date: SEP 2013

13-165-E-SB-SHEET.DGN
CANAVERAL HARBOR-4-SPMCCF.DGN
13-165-V-SOUN_WTB.DGN
13-165-V-CONS1.DGN

Reference files:
13-165-VH-018.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4th QUARTER EXAMINATION SURVEY FY13

31, 35, 39, 41, 40 & 44-FOOT PROJECT
STA. 276+00 THRU STA. 306+00 W.A.C.
PLAN

Scale: AS SHOWN

Drawing no.
19

SHEET 19 OF 19