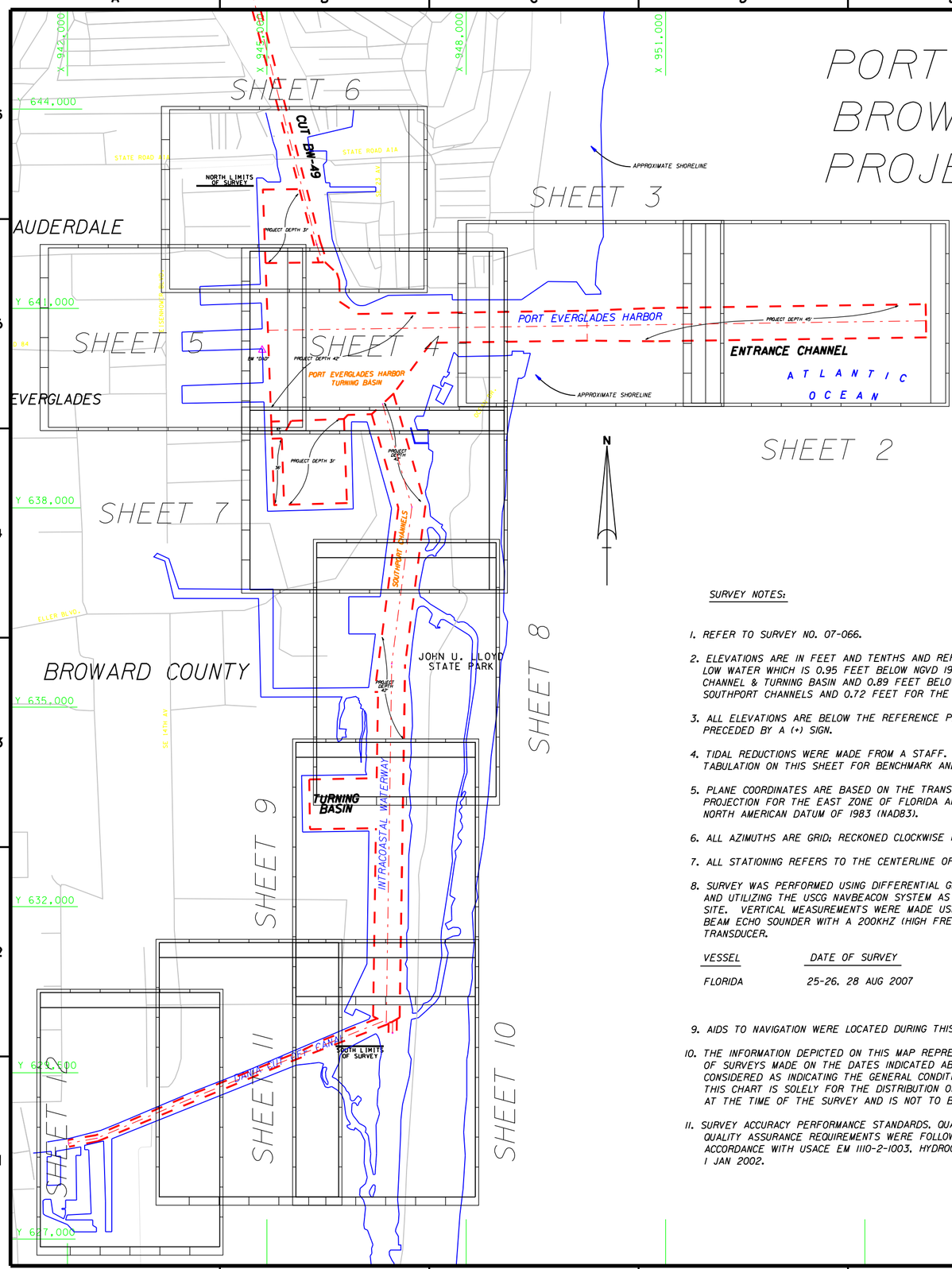
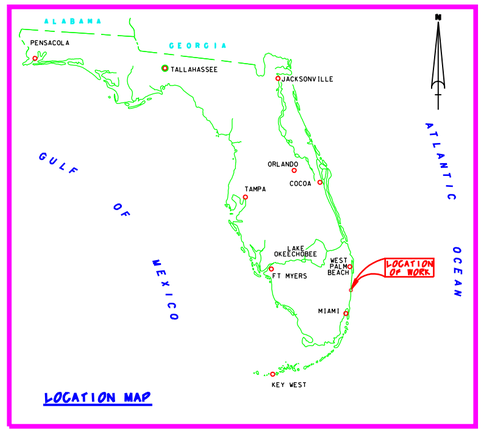
PORT EVERGLADES HARBOR
BROWARD COUNTY, FLORIDA
PROJECT CONDITION SURVEY



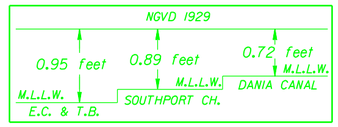


SURVEY NOTES:

1. REFER TO SURVEY NO. 07-066.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER WHICH IS 0.95 FEET BELOW NGVD 1929 FOR THE ENTRANCE CHANNEL & TURNING BASIN AND 0.89 FEET BELOW NGVD 1929 FOR THE SOUTHPORT CHANNELS AND 0.72 FEET FOR THE DANIA CANAL.
3. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF. SEE TABULATION ON THIS SHEET FOR BENCHMARK AND LOCATION.
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 RESON MULTI-BEAM ECHO SOUNDER WITH A 200KHZ (HIGH FREQUENCY) HULL-MOUNTED TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
FLORIDA	25-26, 28 AUG 2007	E.C., TURNING BASIN SOUTHPORT CUTS 1-3, DANIA CUT-OFF

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. 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, QUAILTY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 2002.



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

BENCHMARK	NGVD ELEV. (FT)	LOCATION
NO.5 1973	4.86	MDP @ I.T. PARKER PARK
R-86 1974	9.49	PIER 66 DOCK

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

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: MJB
Dwn by: WRB
Ckd by: WRB

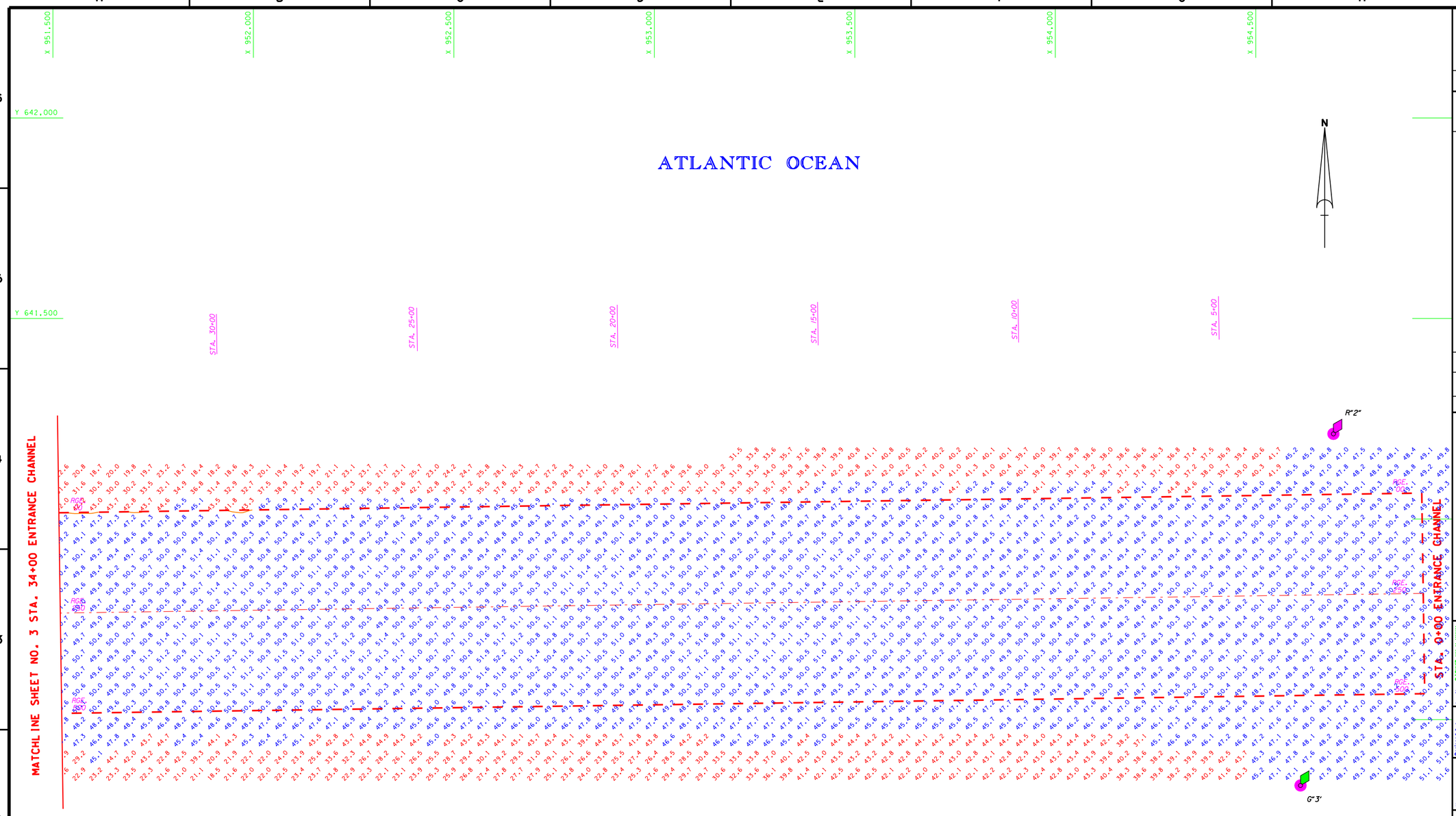
Dated: AUG 2007
D.O. FILE NO.

File name: 07-066SHO1.DGN
Reference files: BR0098.DGN NEWFLMAP.DGN PTEVTOPO.DGN PTEVINDX.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
COVER AND INDEX PLAN

DRAWING NO.
1/13

SHEET 1 OF 10



ENTRANCE CHANNEL

AZ=89-10-27

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-066.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (08/07)	954,693	641,212	26°05'41.51"	80°05'25.42"
LT. BUOY-3 (08/07)	954,611	640,335	26°05'32.84"	80°05'26.39"

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: WRM
Dwn by: WRM
Ckd by: WRM

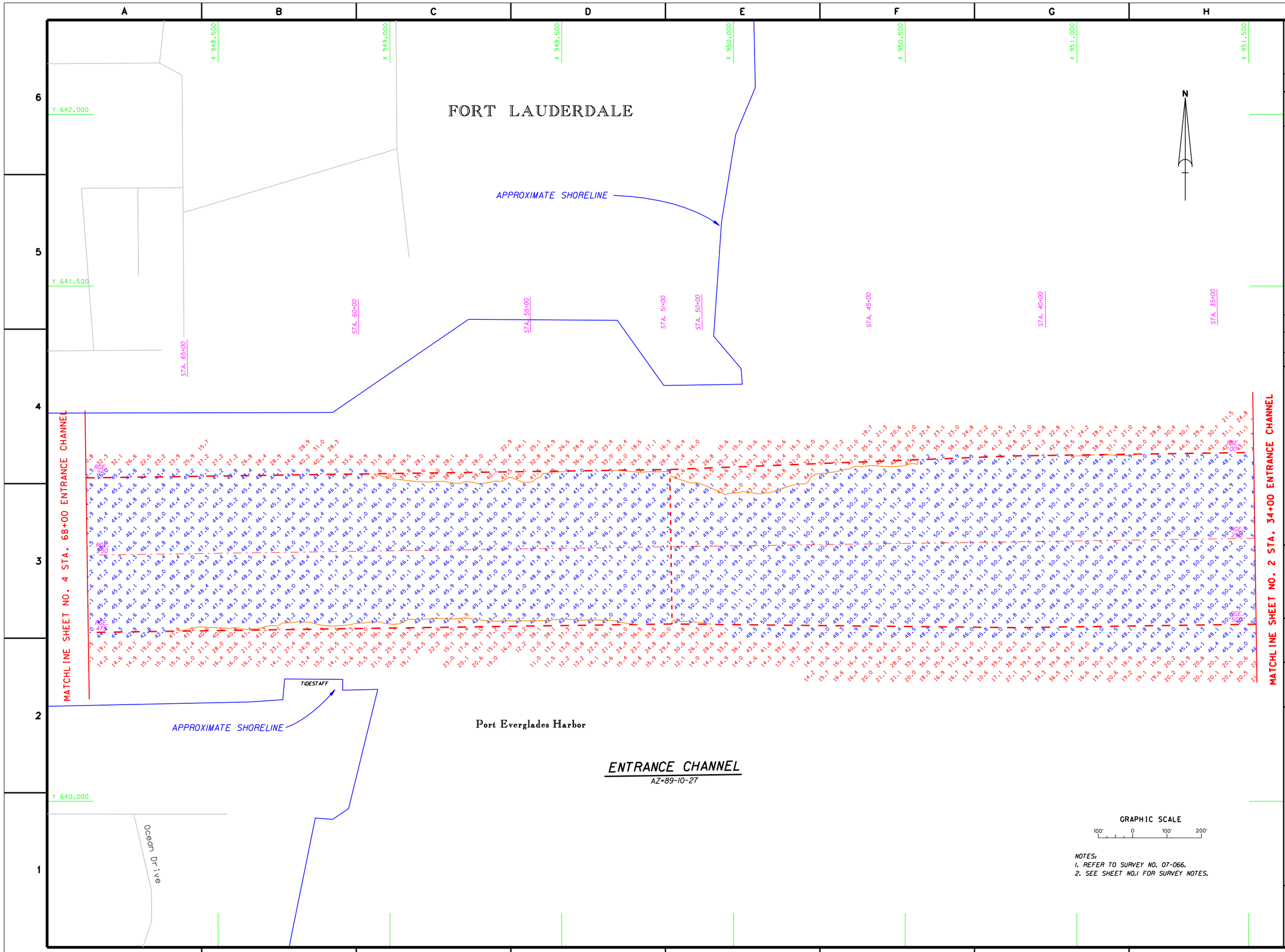
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH02.DGN
Reference files: BRDR98.DGN SOUPORT.DGN 07-066EC.DGN 07-066NAV.DGN CON45.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 0+00 THRU STA. 34+00 ENTRANCE CHANNEL
PLAN

DRAWING NO.
2/13

SHEET 2 OF 10



ENTRANCE CHANNEL
AZ=89-10-27

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-066.
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

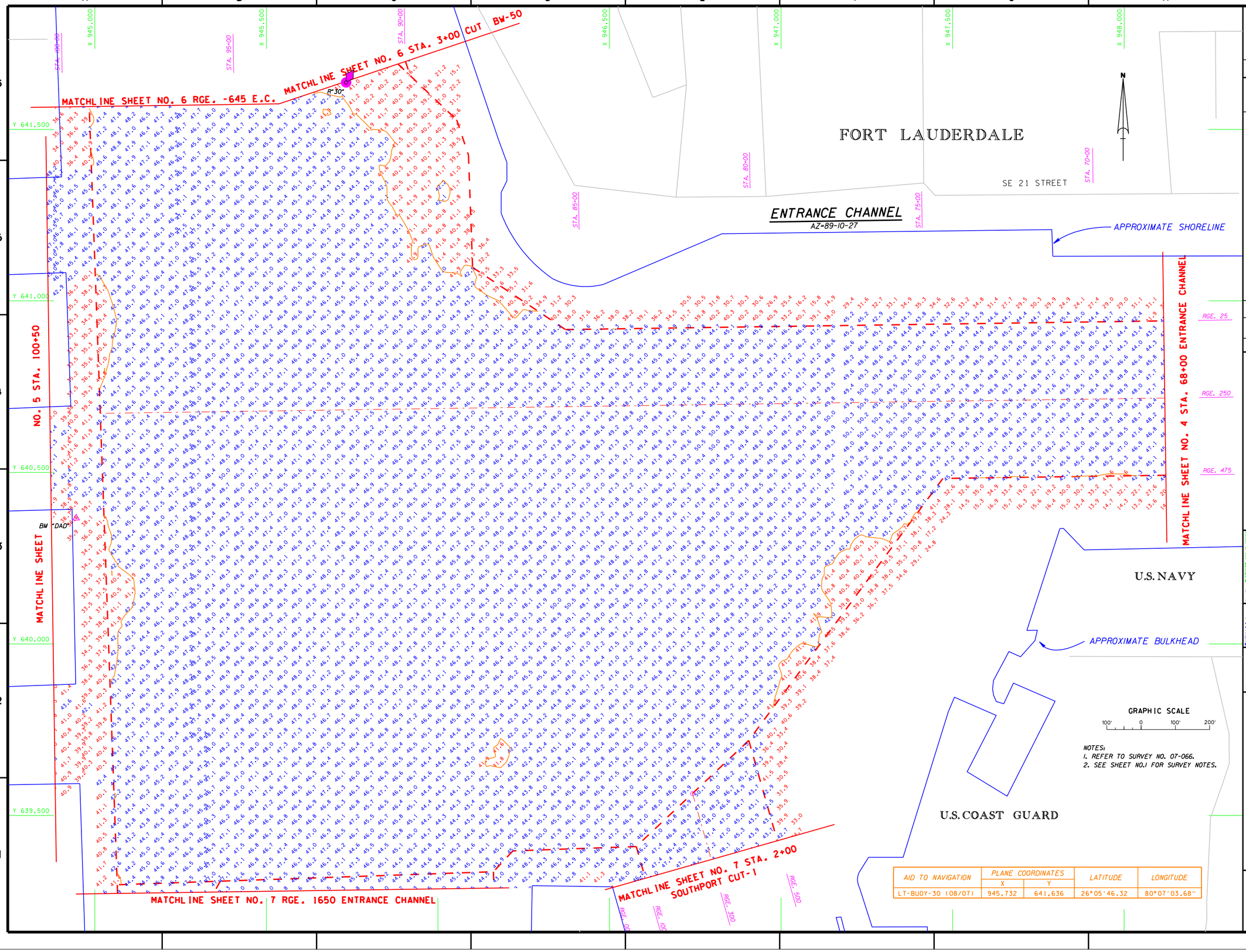
Designed by: MJB
Dwn by: WRM
Ckd by: WRM
Inv. No. XXXXXX-XX-X-XXXX
Dated: XX XXXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH03.DGN
Reference files: BRDR98.DGN SOUPORT.DGN PTEVTOPO.DGN 07-066EC.DGN 0055NAV.DGN CON45.DGN CON42.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 34+00 THRU STA. 68+00 ENTRANCE CHANNEL
PLAN

DRAWING NO.
3/13

SHEET 3 OF 10



NOTES:
1. REFER TO SURVEY NO. 07-066.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-BUOY-30 (08/07)	945,732	641,636	26°05'46.32	80°07'03.68"

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

Inv. No. DACW17-XX-X-XXXX
Dated: XX XXXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XX:X

Designed by: MAB
Dwn by: WRM
Ckd by: WRM

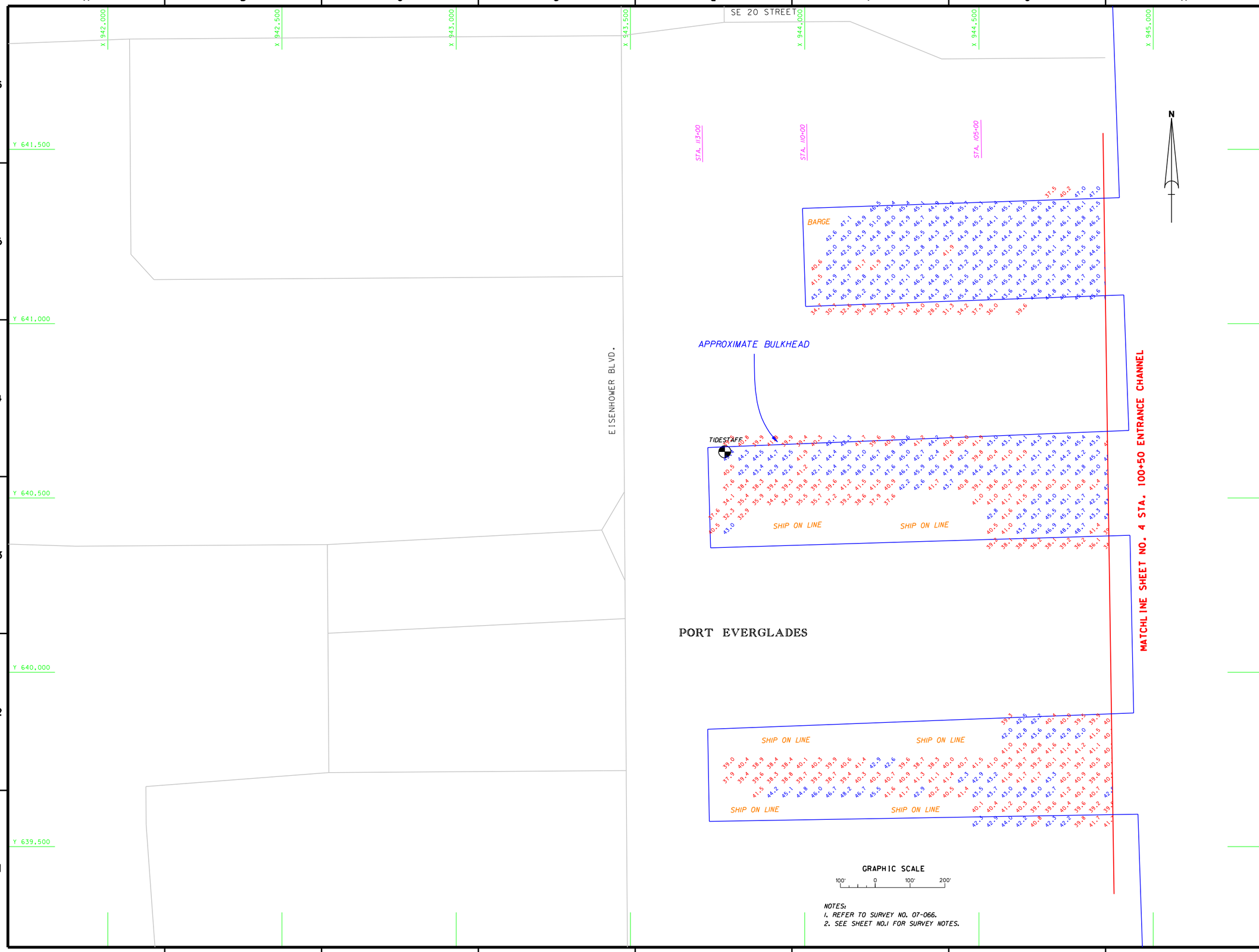
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH04.DGN
Reference files: BRDR98.DGN SOUPORT.DGN PTEVTOPO.DGN 07-066C.DGN 07-066TB.DGN 07-066SP1.DGN 07-066NAV.DGN CON4.2.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 68+00 ENTRANCE CHANNEL THRU T.B.
AND
STA. 0+00 THRU STA. 2+00 SOUTHPORT CUT-1
PLAN

DRAWING NO.
4/13

SHEET 4 OF 10



NOTES:
1. REFER TO SURVEY NO. 07-066.
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: MJB
Dwn by: WRM
Ckd by: WRM

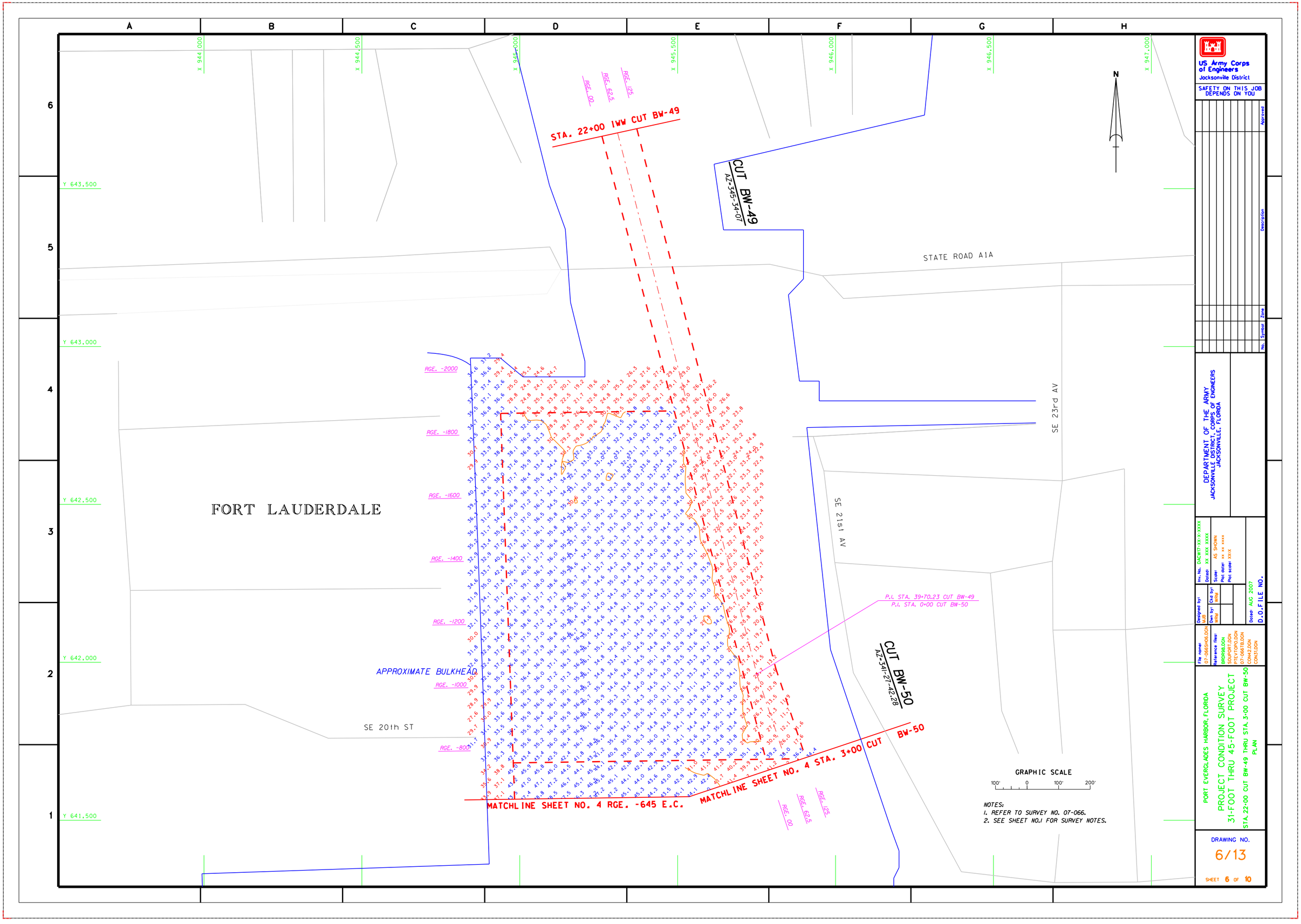
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH05.DGN
Reference files: BRDR98.DGN PTEVTOPO.DGN 07-066TB.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 100+50 ENTRANCE CHANNEL THRU END OF PIERS
PLAN

DRAWING NO.
5/13

SHEET 5 OF 10



NOTES:
1. REFER TO SURVEY NO. 07-066.
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

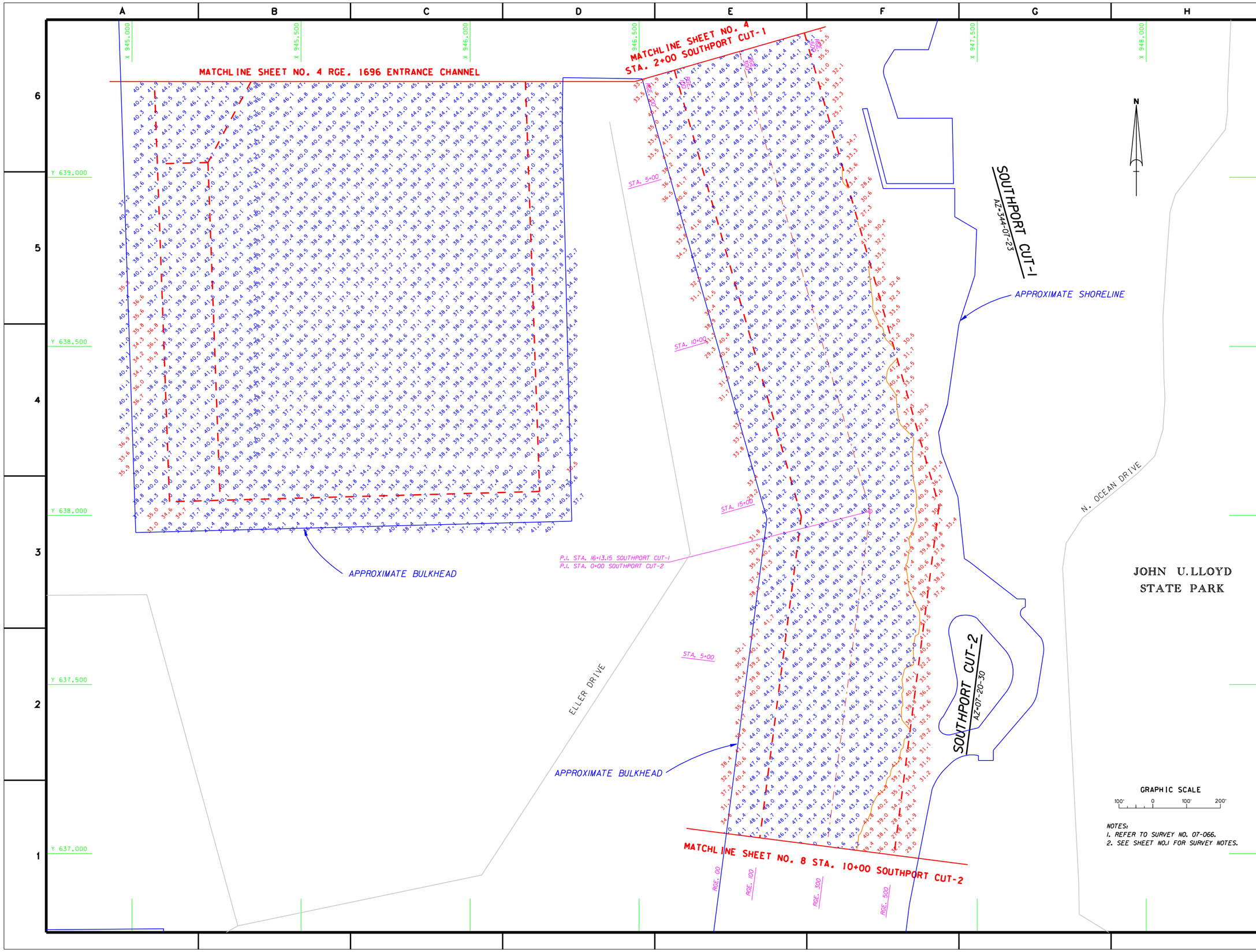
Designed by: MJB
Dwn by: WRM
Ckd by: WRM
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH06.DGN
Reference files: BRDR98.DGN SOUPORT.DGN PTEVTOPO.DGN 07-066TB.DGN CON42.DGN CON31.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 22+00 CUT BW-49 THRU STA. 3+00 CUT BW-50
PLAN

DRAWING NO.
6/13

SHEET 6 OF 10



NOTES:
1. REFER TO SURVEY NO. 07-066.
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

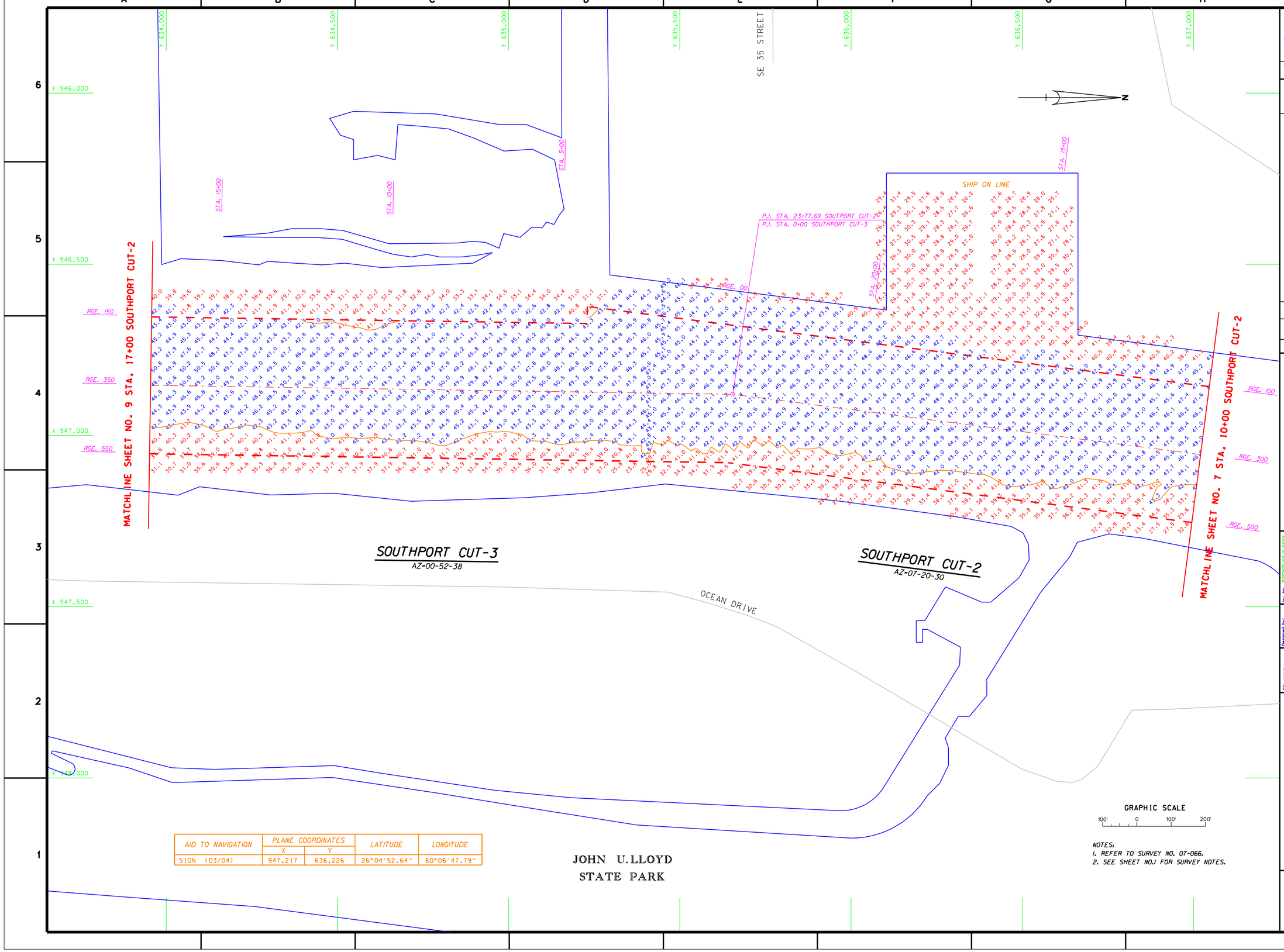
Designed by: MJB
Dwn by: WRM
Ckd by: WRM
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH07.DGN
Reference files: BRDR98.DGN SOUPORT.DGN PTEVTOPO.DGN 07-066TB.DGN 07-066SP1.DGN 07-066SP2.DGN CON42.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOO THRU 45-FOOT PROJECT
STA. 2+00 SOUTPORT CUT-1 THRU
STA. 10+00 SOUTHPORT CUT-2
PLAN

DRAWING NO.
7/13

SHEET 7 OF 10



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
SIGN (03/04)	947,217	636,226	26°04'52.64"	80°06'47.79"

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: XXXX

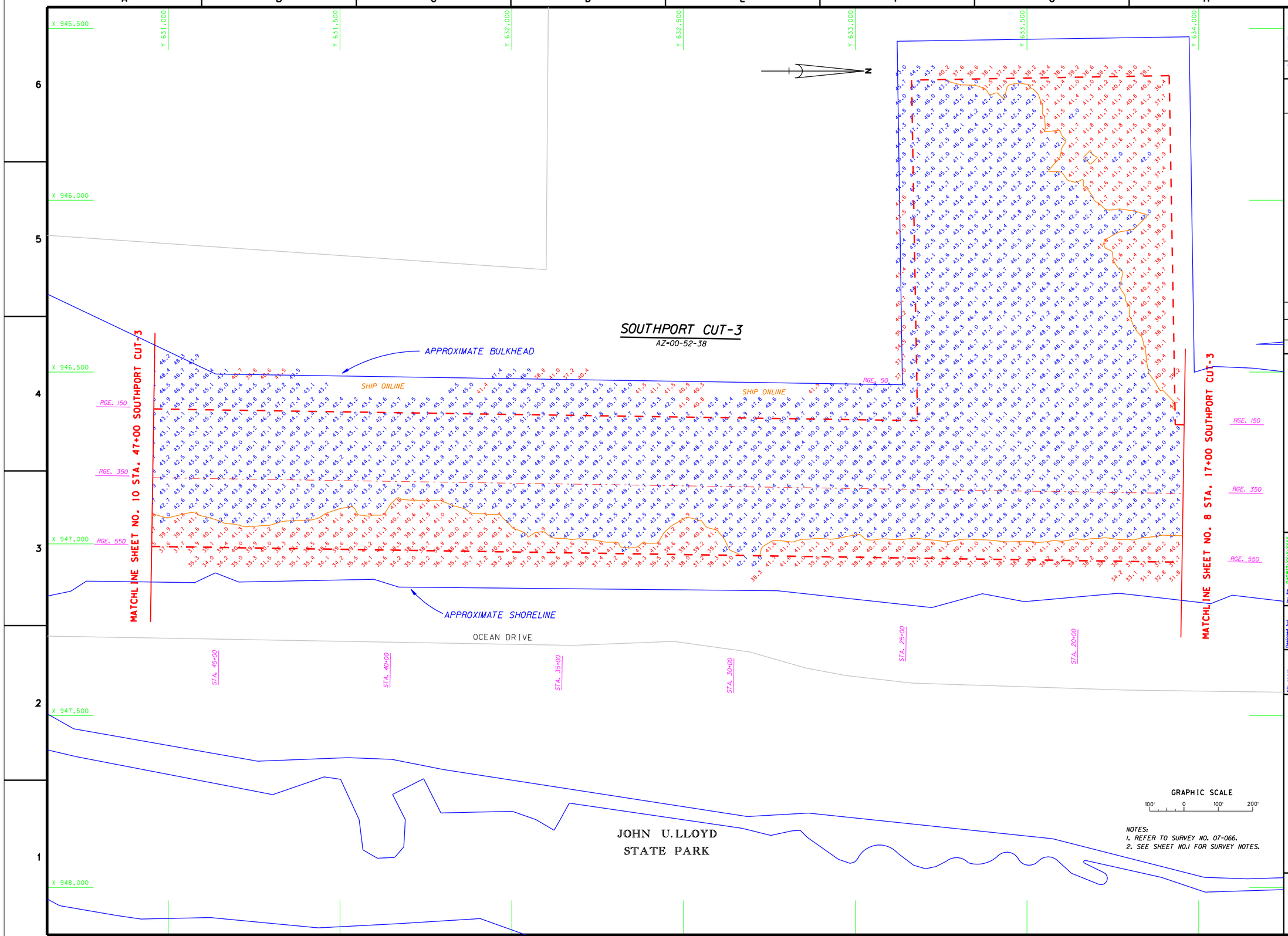
Designed by: MJB
Dwn by: WRW
Ckd by: WRW
Dated: AUG 2007
D.O.FILE NO.

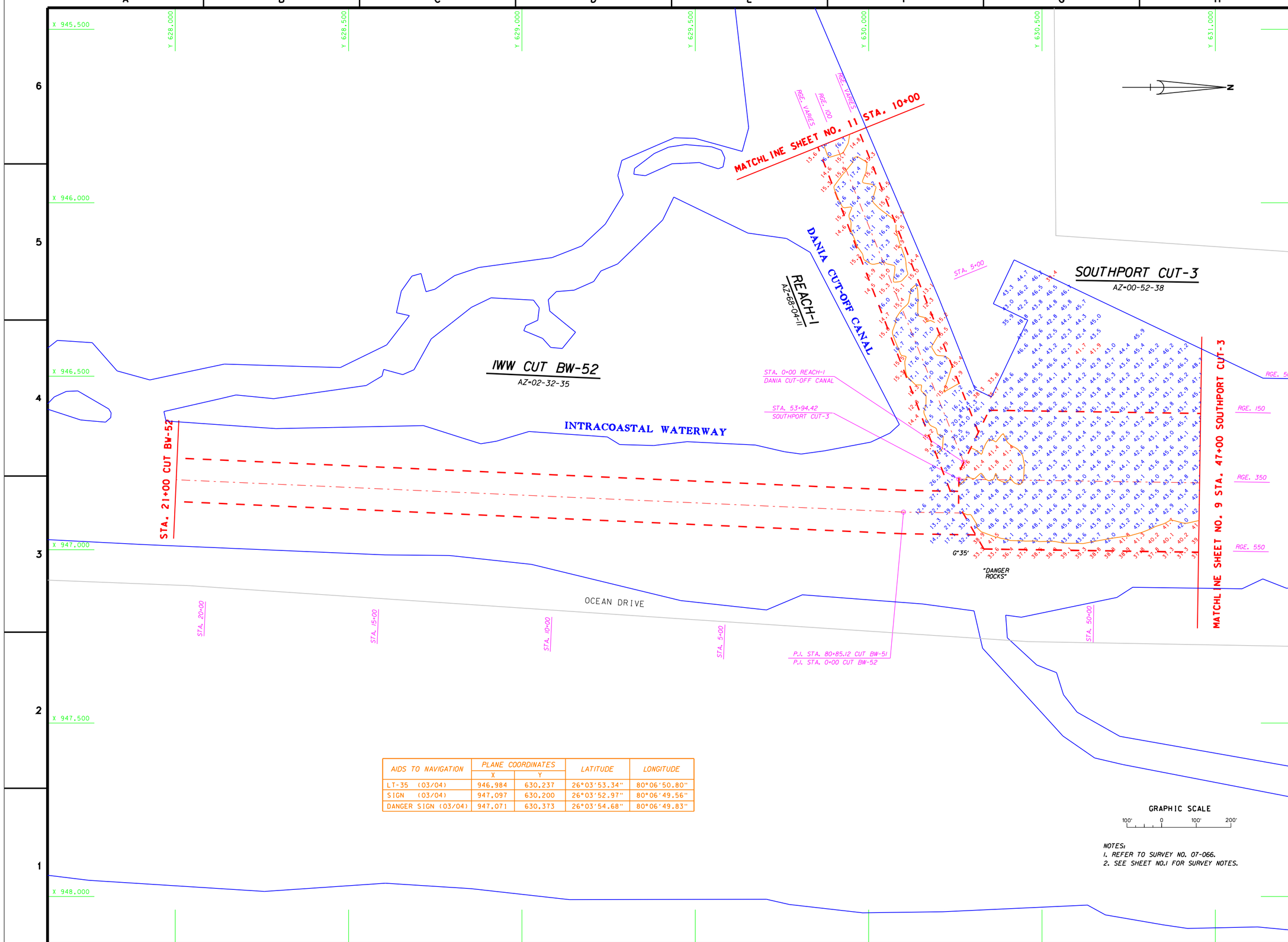
File name: 07-066SHOB.DGN
Reference files: BROPRB.DGN SOUPORT.DGN STATUSPB.DGN 07-066SP2A.DGN 07-066SP3.DGN CONPLE.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA.1+00 SOUTHPORT CUT-2 THRU
STA.17+00 SOUTHPORT CUT-3
PLAN

DRAWING NO.
8/13

SHEET 8 OF 10


SOUTHPORT CUT-3
AZ-00-52-38
APPROXIMATE BULKHEAD
SHIP ONLINE
SHIP ONLINE
APPROXIMATE SHORELINE
OCEAN DRIVE
MATCHLINE SHEET NO. 10 STA. 47+00 SOUTHPORT CUT-3
MATCHLINE SHEET NO. 8 STA. 17+00 SOUTHPORT CUT-3
STA. 45+00
STA. 40+00
STA. 35+00
STA. 30+00
STA. 25+00
STA. 20+00
JOHN U. LLOYD
STATE PARK
GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 07-066.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB DEPENDS ON YOU
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 17+00 THRU STA. 47+00 SOUTHPORT CUT-3
PLAN
DRAWING NO.
9/13
SHEET 9 OF 10



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-35 (03/04)	946,984	630,237	26°03'53.34"	80°06'50.80"
SIGN (03/04)	947,097	630,200	26°03'52.97"	80°06'49.56"
DANGER SIGN (03/04)	947,071	630,373	26°03'54.68"	80°06'49.83"

NOTES:
1. REFER TO SURVEY NO. 07-066.
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: MJB
Dwn by: WRW
Ckd by: WRW

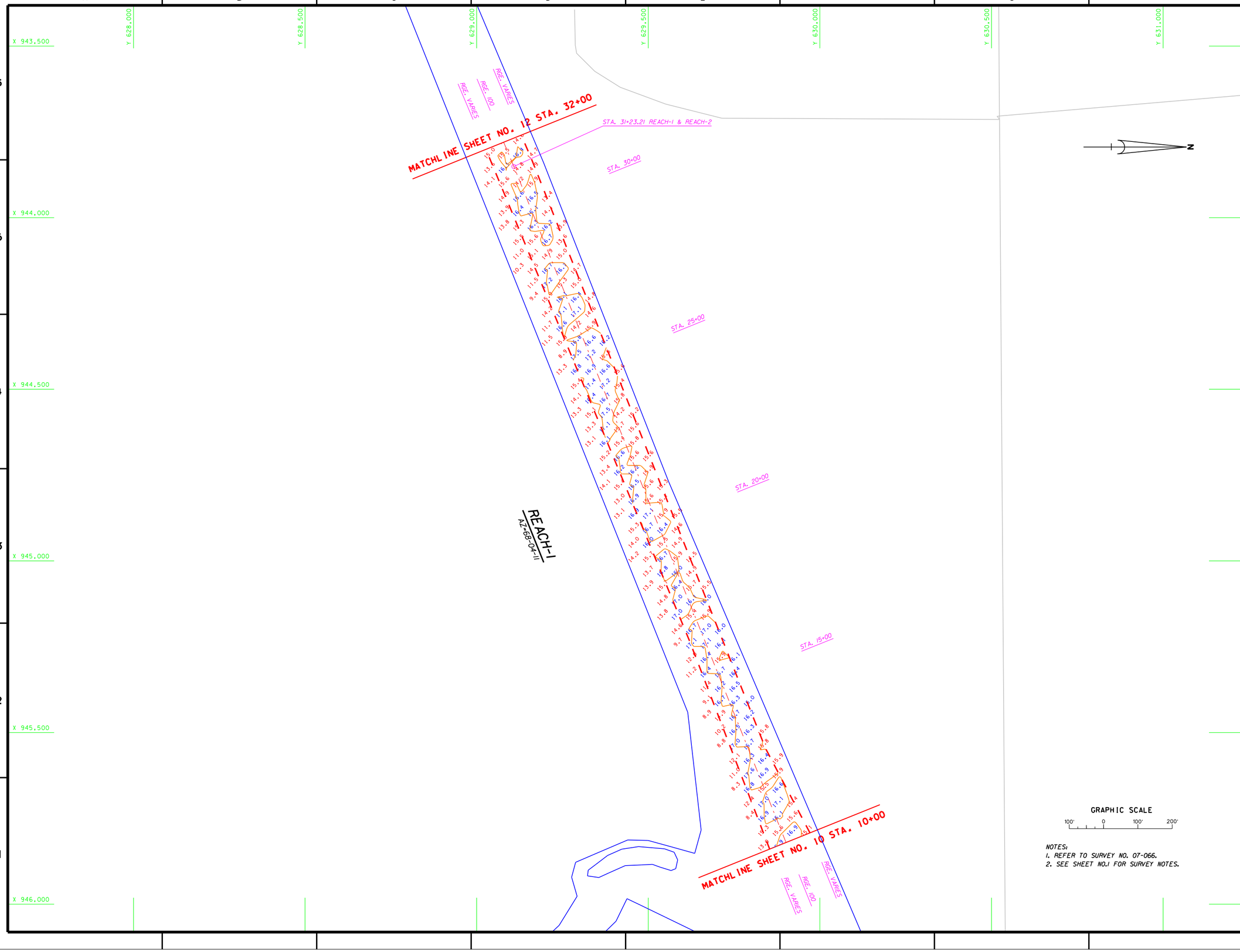
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH10.DGN
Reference files: SMDR66.DGN SMDR66SUR.DGN PTEV.TOPO.DGN 07-066SURV.DGN 07-066GRID.DGN CONK.DGN CONKSUR.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 47+00 THRU STA. 53+94.42 SOUTHPORT
AND STA. 0+00 THRU STA. 10+00 REACH-I
PLAN

DRAWING NO.
10/13

SHEET 10 OF 10



NOTES:
1. REFER TO SURVEY NO. 07-066.
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-XXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX.X

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

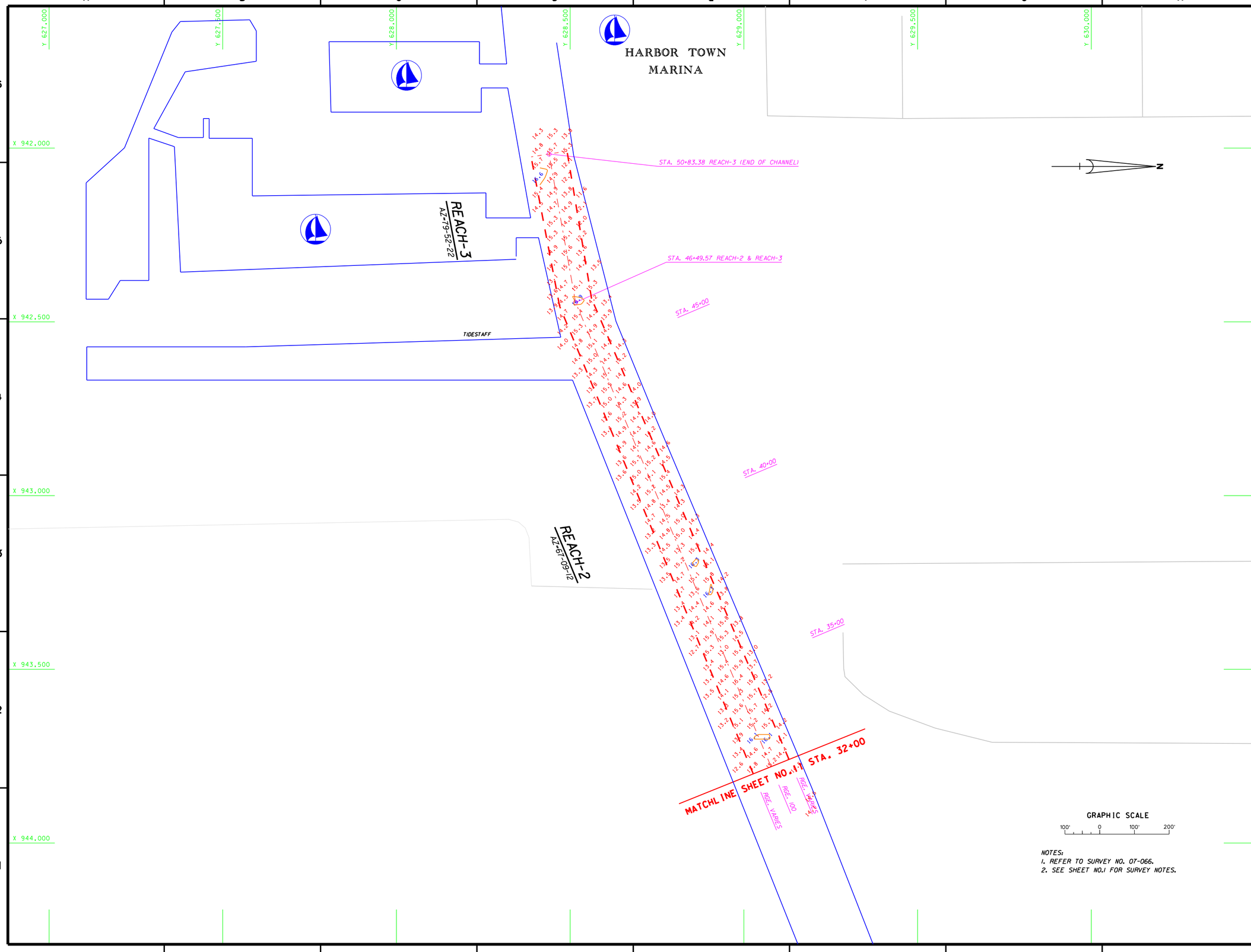
Dated: AUG 2007
D.O.F.ILE NO.

File name: 07-066SHT1.DGN
Reference files: B60R98.DGN, SOUPORT.DGN, PTEVTOPO.DGN, 07-066OR1.DGN, CONT6.DGN

PORT EVERGLADES HARBOR, FLORIDA
DANIA CUT-OFF CANAL
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 10+00 REACH-1 THRU STA. 32+00 REACH-2
PLAN

DRAWING NO.
11/13

SHEET 11 OF 13



NOTES:
1. REFER TO SURVEY NO. 07-066.
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: WRM
Dwn by: WRM
Ckd by: WRM

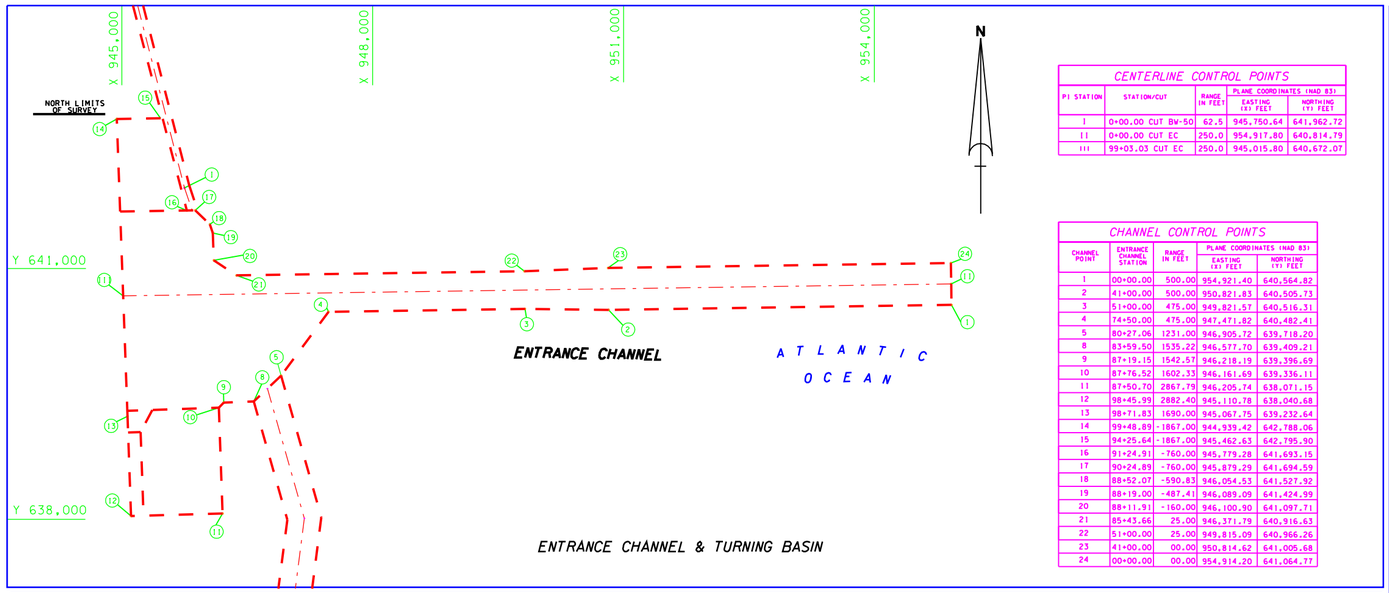
Dated: AUG 2007
D.O.FILE NO.

File name: 07-066SH12.DGN
Reference files: BRDR98.DGN SOUPORT.DGN PTEVTOPO.DGN 07-066DR1.DGN 07-066DR2.DGN 07-066DR3.DGN CON16.DGN

PORT EVERGLADES HARBOR, FLORIDA
DANIA CUT-OFF CANAL
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
STA. 32+00 REACH-2 THRU STA. 50+83.38 REACH-3
PLAN

DRAWING NO.
12/13

SHEET 12 OF 13



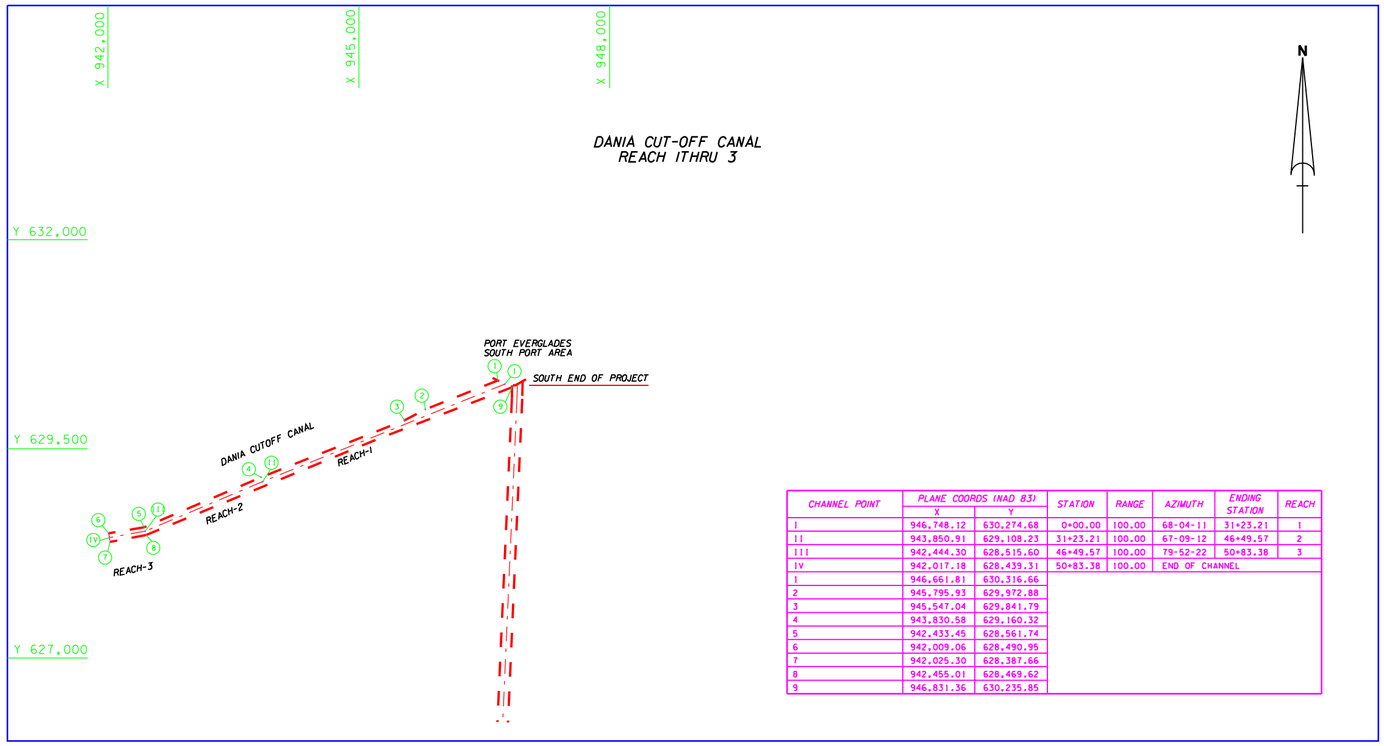
ENTRANCE CHANNEL & TURNING BASIN

CENTERLINE CONTROL POINTS

PI STATION	STATION/CUT	RANGE IN FEET	PLANE COORDINATES (NAD 83) EASTING (X) FEET	NORTHING (Y) FEET
I	0+00.00 CUT BW-50	62.5	945,750.64	641,962.72
II	0+00.00 CUT EC	250.0	954,917.80	640,814.79
III	99+03.03 CUT EC	250.0	945,015.80	640,672.07

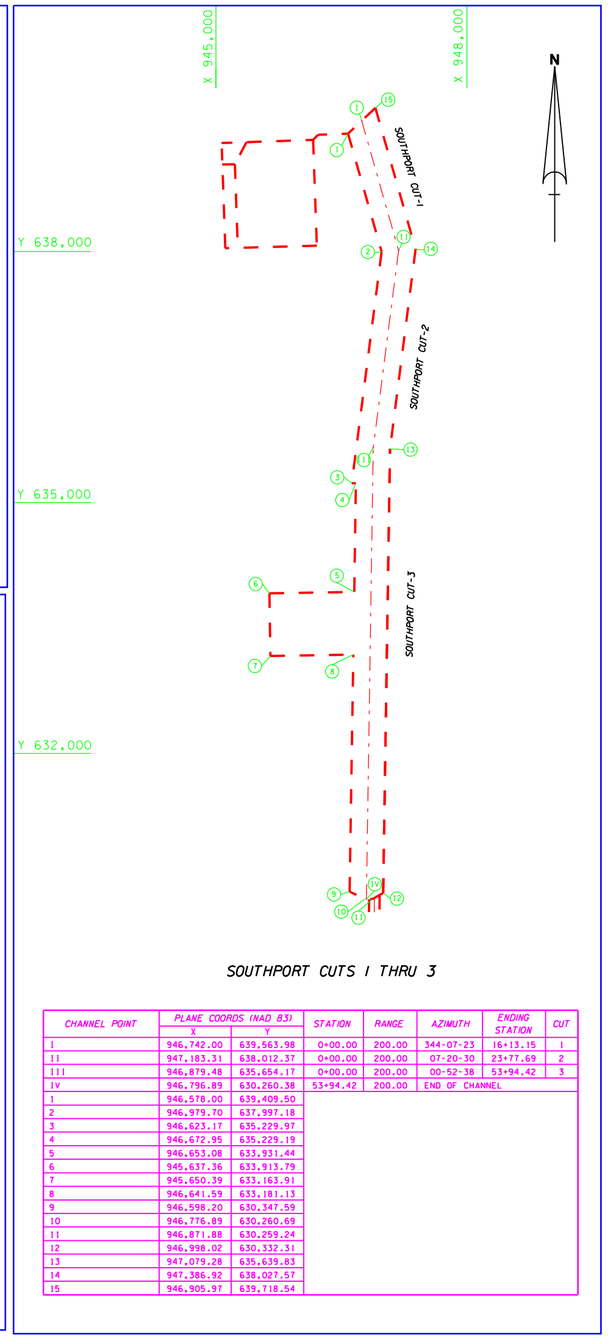
CHANNEL CONTROL POINTS

CHANNEL POINT	ENTRANCE CHANNEL STATION	RANGE IN FEET	PLANE COORDINATES (NAD 83) EASTING (X) FEET	NORTHING (Y) FEET
1	00+00.00	500.00	954,921.40	640,564.82
2	41+00.00	500.00	950,821.83	640,505.73
3	51+00.00	475.00	949,821.57	640,516.31
4	74+50.00	475.00	947,471.82	640,482.41
5	80+27.06	1231.00	946,905.72	639,718.20
8	83+59.50	1535.22	946,577.70	639,409.21
9	87+19.15	1542.57	946,218.19	639,396.69
10	87+76.52	1602.33	946,161.69	639,336.11
11	87+50.70	2867.79	946,205.74	638,071.15
12	98+45.99	2882.40	945,110.78	638,040.68
13	98+71.83	1690.00	945,067.75	639,232.64
14	99+48.89	-1867.00	944,939.42	642,788.06
15	94+25.64	-1867.00	945,462.63	642,795.90
16	91+24.91	-760.00	945,779.28	641,693.15
17	90+24.89	-760.00	945,879.29	641,694.59
18	88+52.07	-590.83	946,054.53	641,527.92
19	88+19.00	-487.41	946,089.09	641,424.99
20	88+11.91	-160.00	946,100.90	641,097.71
21	85+43.66	25.00	946,371.79	640,916.63
22	51+00.00	25.00	949,815.09	640,966.26
23	41+00.00	00.00	950,814.62	641,005.68
24	00+00.00	00.00	954,914.20	641,064.77



DANIA CUT-OFF CANAL
REACH 1THRU 3

CHANNEL POINT	PLANE COORDS (NAD 83) X	Y	STATION	RANGE	AZIMUTH	ENDING STATION	REACH
I	946,748.12	630,274.68	0+00.00	100.00	68-04-11	31+23.21	1
II	943,850.91	629,108.23	31+23.21	100.00	67-09-12	46+49.57	2
III	942,444.30	628,515.60	46+49.57	100.00	79-52-22	50+83.38	3
IV	942,017.18	628,439.31	50+83.38	100.00	END OF CHANNEL		
1	946,661.81	630,316.66					
2	945,795.93	629,972.88					
3	945,547.04	629,841.79					
4	943,830.58	629,160.32					
5	942,433.45	628,561.74					
6	942,009.06	628,490.95					
7	942,025.30	628,387.66					
8	942,455.01	628,469.62					
9	946,831.36	630,235.85					



SOUTHPORT CUTS 1 THRU 3

CHANNEL POINT	PLANE COORDS (NAD 83) X	Y	STATION	RANGE	AZIMUTH	ENDING STATION	CUT
I	946,742.00	639,563.98	0+00.00	200.00	344-07-23	16+13.15	1
II	947,183.31	638,012.37	0+00.00	200.00	07-20-30	23+77.69	2
III	946,879.48	635,654.17	0+00.00	200.00	00-52-38	53+94.42	3
IV	946,796.89	630,260.38	53+94.42	200.00	END OF CHANNEL		
1	946,578.00	639,409.50					
2	946,979.70	637,997.18					
3	946,623.17	635,229.97					
4	946,672.95	635,229.19					
5	946,653.08	633,931.44					
6	945,637.36	633,913.79					
7	945,650.39	633,163.91					
8	946,641.59	633,181.13					
9	946,598.20	630,347.59					
10	946,776.89	630,260.69					
11	946,871.88	630,259.24					
12	946,998.02	630,332.31					
13	947,079.28	635,639.83					
14	947,386.92	638,027.57					
15	946,905.97	639,718.54					

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-066.
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: WHM
Dwn by: WHM
Ckd by: WHM

Dated: AUG 2007
D.O.F.ILE NO.

File name: 07-066SH13.DGN
Reference files: 890898.DGN SOUPORT.DGN

PORT EVERGLADES HARBOR, FLORIDA
PROJECT CONDITION SURVEY
31-FOOT THRU 45-FOOT PROJECT
CONTROL SHEET
PLAN

DRAWING NO.
13/13

SHEET 13 OF 13