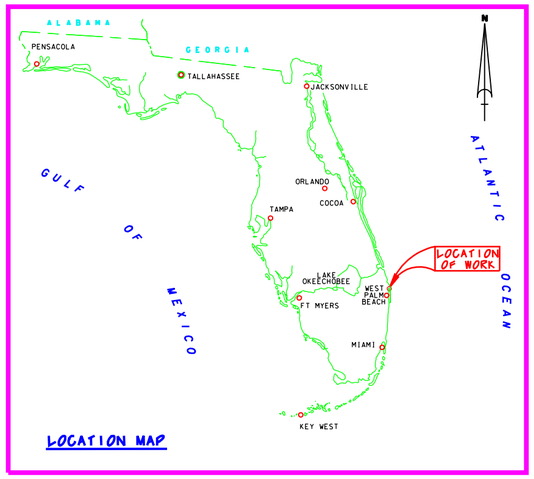
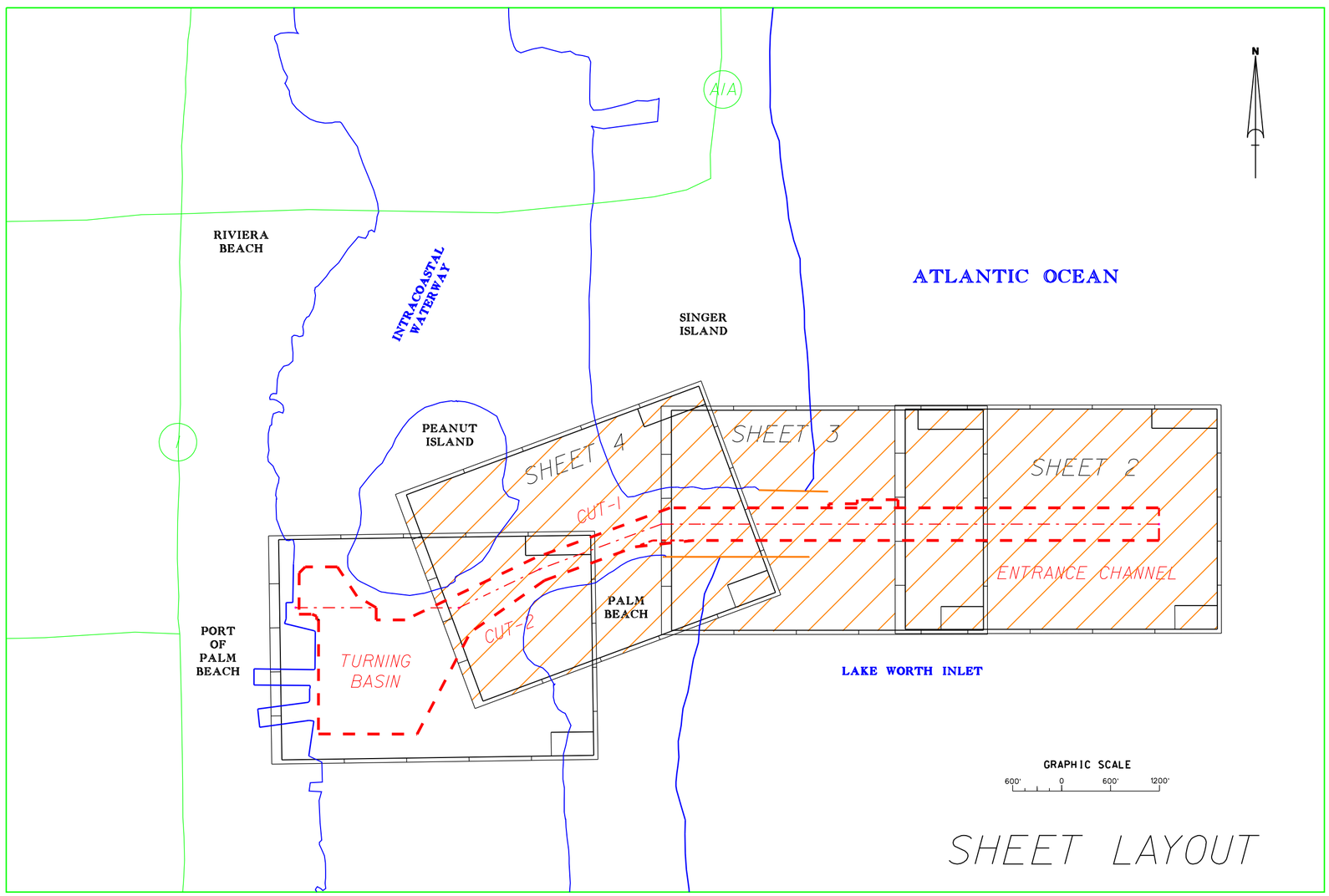
PALM BEACH HARBOR, FLORIDA
PROJECT CONDITION SURVEY





SURVEY NOTES:

1. REFER TO SURVEY NO. 08-009.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 1.31 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 IN THE VICINITY OF, AND REFERENCED FROM BENCHMARK "A310".
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	17 OCT 2007	ENTRANCE CHANNEL

9. AIDS TO NAVIGATION WERE LOCATED DURING 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, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

BENCHMARK	NGVD ELEV. (FT)
A-310	4.75

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

NGVD 1929
1.31 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

Proj. No. DACW17-XX-X-XXXX
Dates: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX

Designed by: WSC
Dwn by: WRW
Ckd by: BRNB

Dates: OCT 2007
D.O.FILE NO.

File name: 08-009SHO1.DGN
Reference files: BKDR98.DGN SE-WYOUT.DGN NEWPLUP.DGN

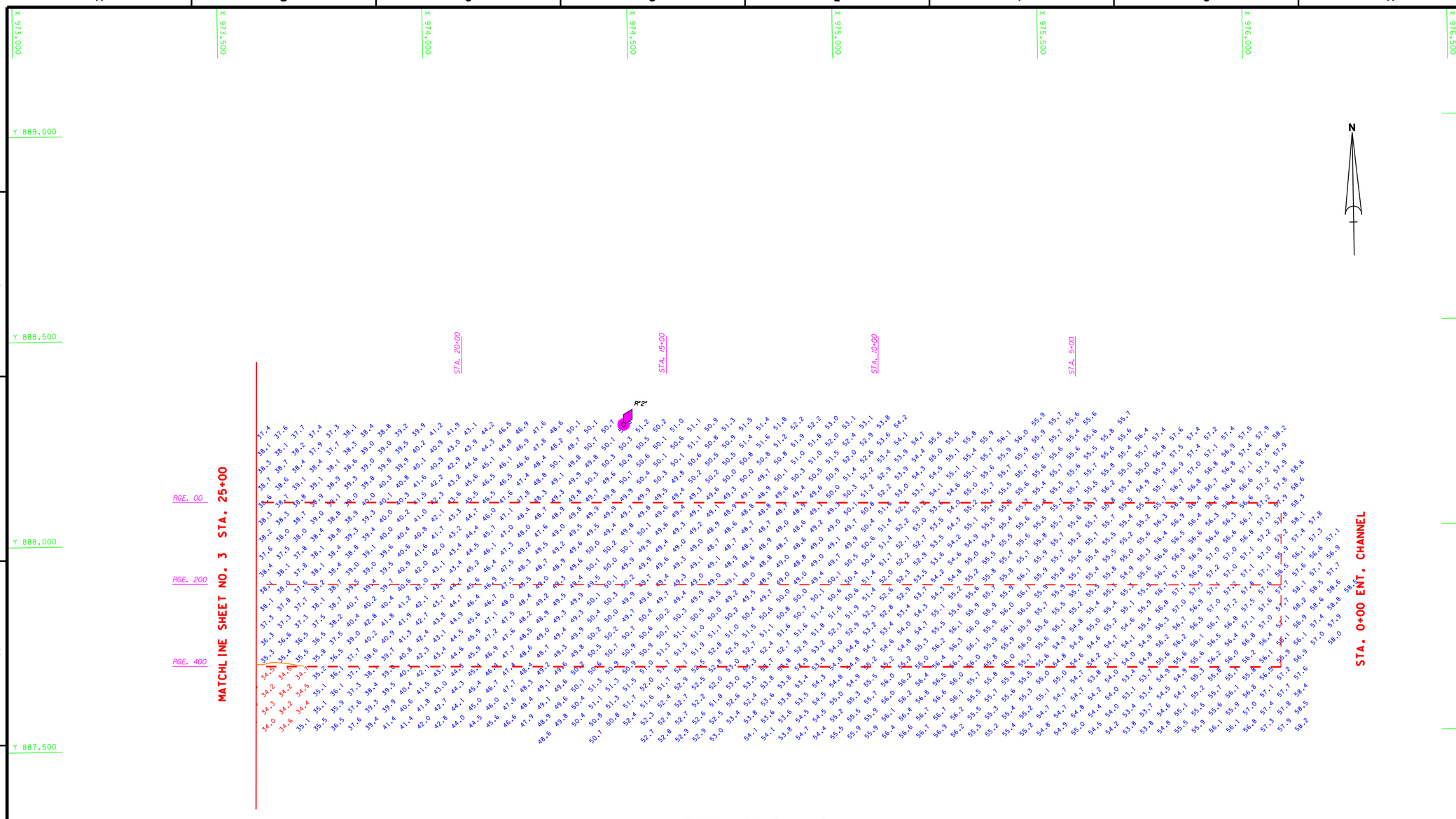
PALM BEACH HARBOR, FLORIDA

PROJECT CONDITION SURVEY
33 & 35-FOOT PROJECT

ENTERANCE CHANNEL THRU TURNING BASIN
PLAN

DRAWING NO.
1/4

SHEET 1 OF 5



ENTRANCE CHANNEL

AZ=91-00-20

AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (11/07)	974.768	887.982	26°46'23.81"	80°01'24.71"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 08-009.
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
Date3: XX. XXX. XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX.XX

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

Date: OCT 2007
D.O.F.ILE NO.

File name: 08-009SHG2.DGN
Reference files: BR0998.DGN
PALMBCH63.DGN
08-009ALC.DGN
08-009NAV.DGN
CON55.DGN

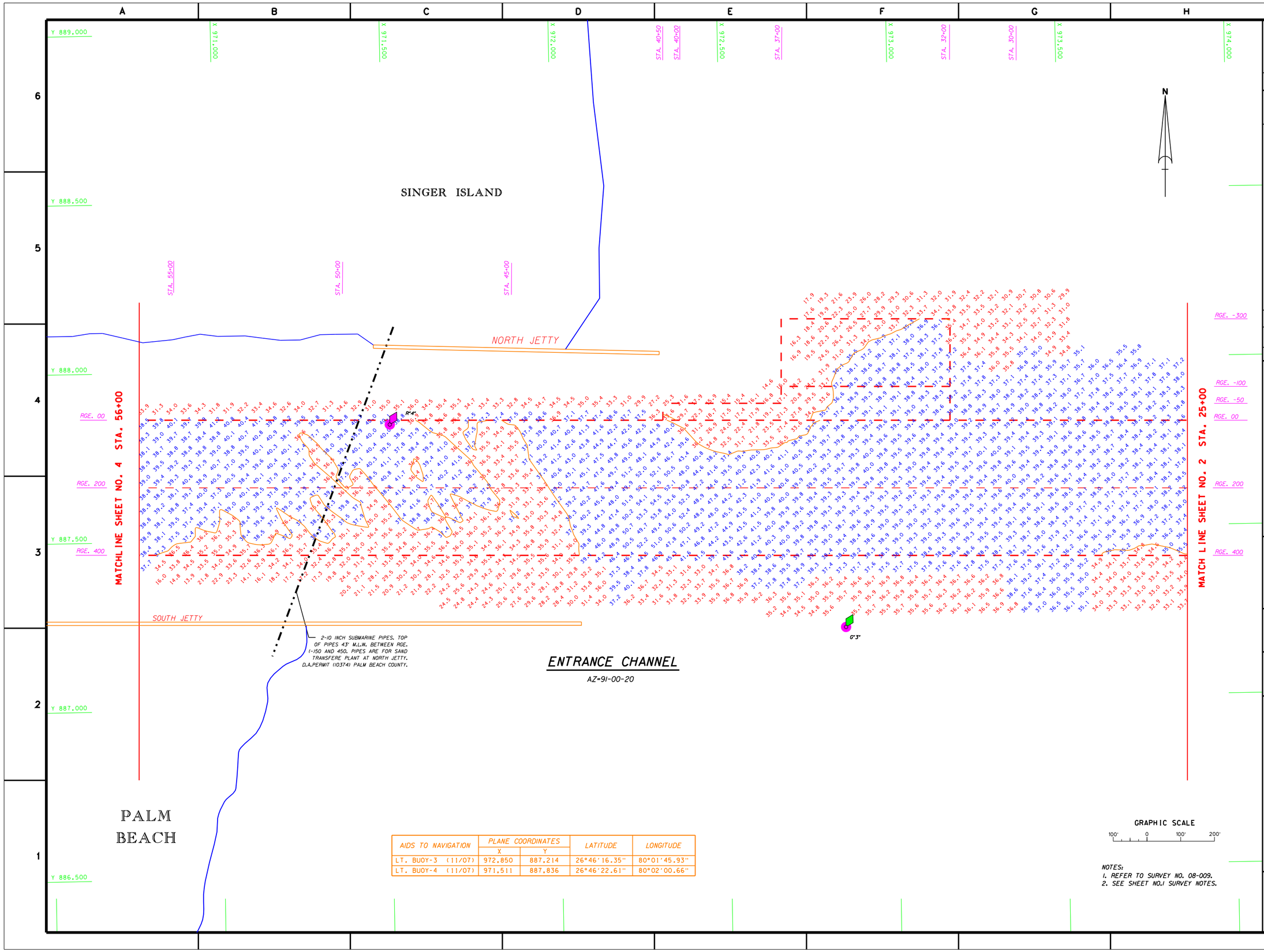
PALM BEACH HARBOR, FLORIDA

PROJECT CONDITION SURVEY
35-FOOT PROJECT

STA.0+00 THRU STA.25+00 ENTRANCE CHANNEL
PLAN

DRAWING NO.
2/4

SHEET 2 OF 5



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (11/07)	972,850	887,214	26°46'16.35"	80°01'45.93"
LT. BUOY-4 (11/07)	971,511	887,836	26°46'22.61"	80°02'00.66"

NOTES:
1. REFER TO SURVEY NO. 08-009.
2. SEE SHEET NO.1 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: RSC
Dwn by: BRG
Ckd by: BRG

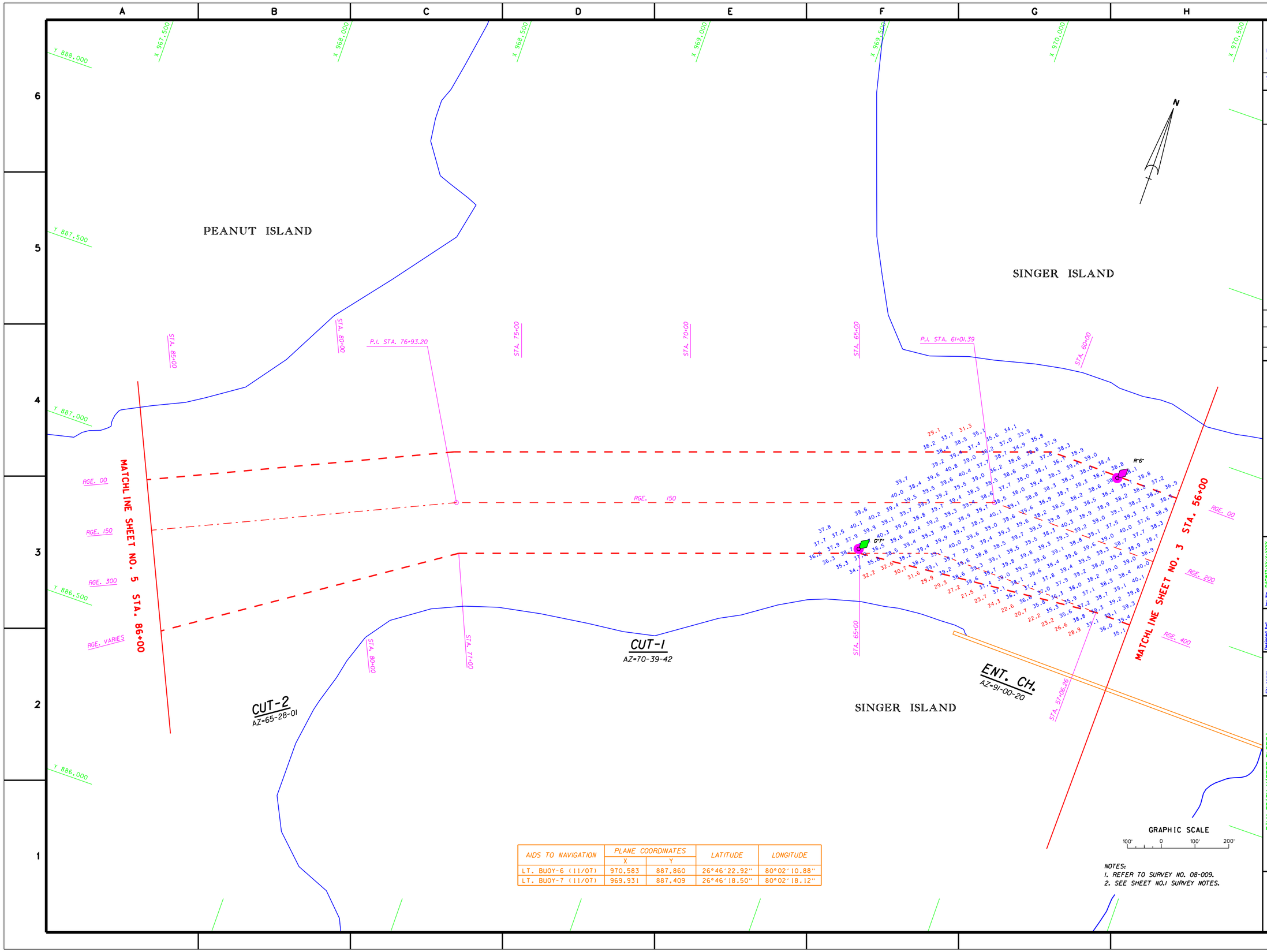
Dated: OCT 2007
D.O.FILE NO.

File name: 08-009SH03.DGN
Reference files: SR09R8.DGN PALMBCH83.DGN PB10P083.DGN 08-009SH01.DGN 08-009NAV.DGN CON35.DGN CON37.DGN

PALM BEACH HARBOR, FLORIDA
PROJECT CONDITION SURVEY
35-FOOT PROJECT
STA 25+00 THRU STA. 56+00 ENTRANCE CHANNEL
PLAN

DRAWING NO.
3/4

SHEET 3 OF 5



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (11/07)	970,583	887,860	26°46'22.92"	80°02'10.88"
LT. BUOY-7 (11/07)	969,931	887,409	26°46'18.50"	80°02'18.12"

NOTES:
1. REFER TO SURVEY NO. 08-009.
2. SEE SHEET NO.1 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
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XX:X

Designed by: WSG
Dwn by: BRW
Ckd by: BRW

Date: OCT 2007
D.O.F.ILE NO.

File name: 08-009SH04.DGN
Reference files: BR0958.DGN
PALMBCH83.DGN
FB11-0083.DGN
FB10-0066.DGN
08-009NAV.DGN

PALM BEACH HARBOR, FLORIDA

PROJECT CONDITION SURVEY
33 & 35-FOOT PROJECT

STA. 60+00 ENTRANCE CHANNEL THRU
STA. 86+00 CUT-2
PLAN

DRAWING NO.
4/4

SHEET 4 OF 5