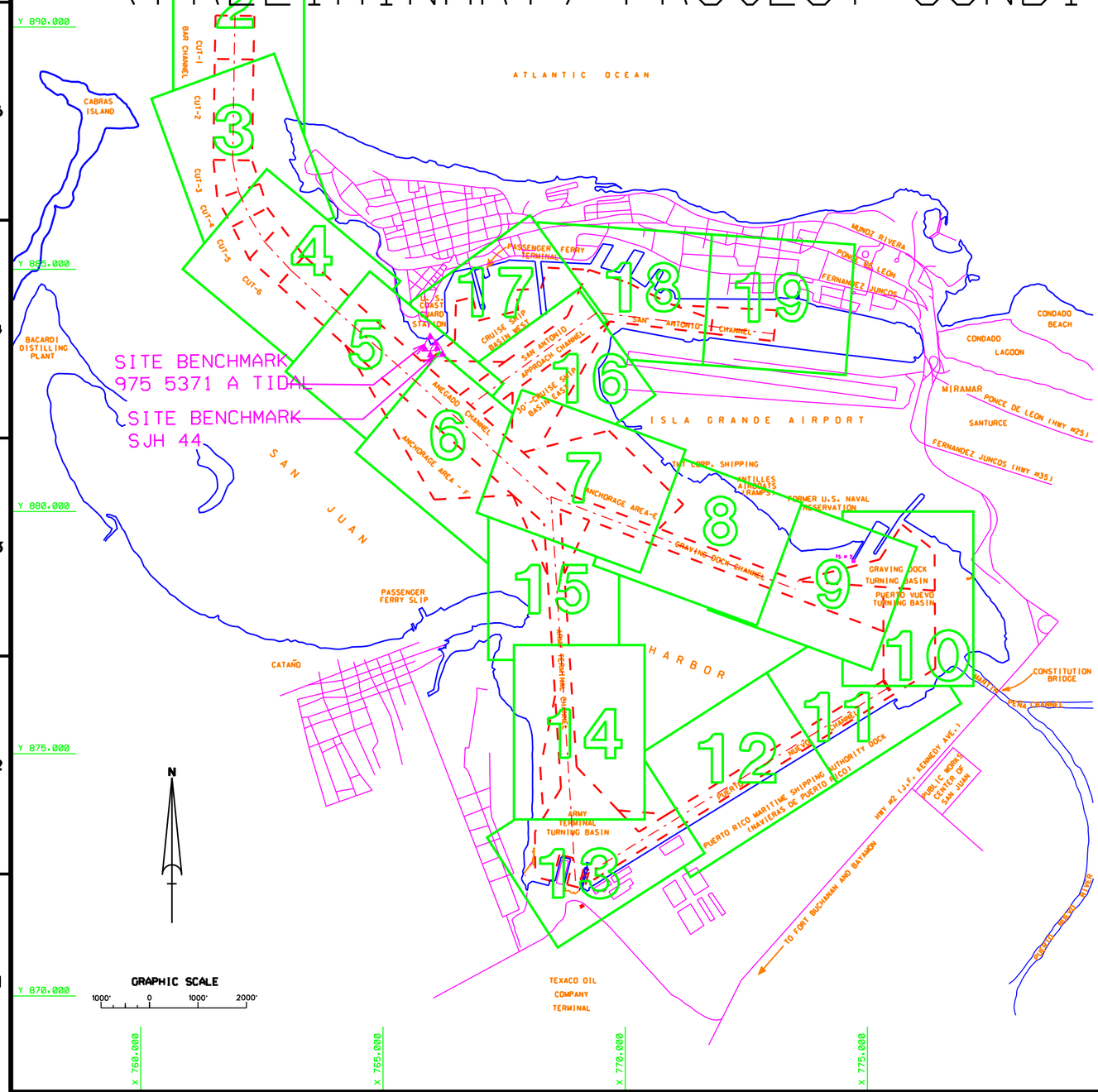
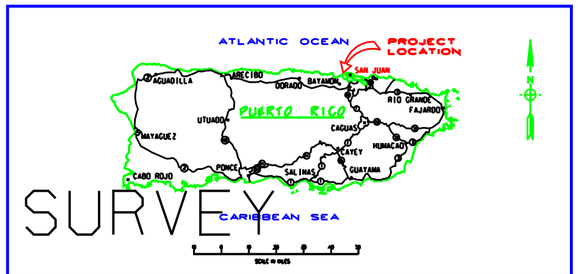
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
(PRELIMINARY) PROJECT CONDITION SURVEY





LOCATION MAP

SURVEY NOTES:

1. REFER TO SURVEY NO. 07-095
2. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS, NORTH ZONE (NAD83).
3. EASTING AND NORTHING COORDINATES SHOWN HEREON FOR TIDAL 5371A AND SJH 44 WERE CONVERTED WITH CORPSCON FROM THE LAT AND LONG PROVIDED ON NOS (NATIONAL GEODETIC SURVEY) DATA SHEET TO NAD83.
4. ALL AZIMUTHS ARE GRID: RECKONED CLOCKWISE FROM SOUTH.
5. STATIONING REFERS TO CENTERLINE OF CHANNEL EXCEPT FOR WIDENER STATIONING.
6. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLLW) DATUM WHICH IS 0.24 FEET BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
7. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY PLUS SIGN (+).
8. THE SURVEY DATA DEPICTED ON THIS MAP WAS OBTAINED DURING THE PERIOD OF OCTOBER 2007.
9. EQUIPMENT & HYDRO SURVEY INFORMATION:
   POSITIONING AND TIDE INFORMATION: TRIMBLE RTK 5700 SYSTEM
   SOUNDER: KNUDSEN 320M WITH A 200KHZ HIGH FREQUENCY TRANSDUCER
   LOCATION OF TIDE STAFF: 975 5371 A TIDAL, COAST GUARD AREA
   BENCH MARK: SJH-44 AND 975 5371 A TIDAL
   VESSEL: RENTAL
10. STANDARD FIELD CALIBRATIONS FOR ALL EQUIPMENT WAS PERFORMED. RESULTING ACCURACY WAS WITHIN MANUFACTURER'S SPECIFICATIONS.
11. THE INFORMATION DEPICTED IN THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING 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.
12. 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.

VERTICAL CONTROL

CONTROL MONUMENT	PLANE COORDINATES SCALED-CONVERTED TO NAD83 FROM LAT LONG		NGVD-29 ELEVATION	MLLW ELEVATION
	EASTING	NORTHING		
SJH 44	766.099	883.318	4.96	5.20
975 5371 A TIDAL	765.983	883.443	NA	5.32

RELATIONSHIP BETWEEN NGVD 1929 AND MEAN LOWER LOW WATER

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Jacksonville District

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JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5262 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
(904) 387-7777
LICENSED BUSINESS NO. 6487

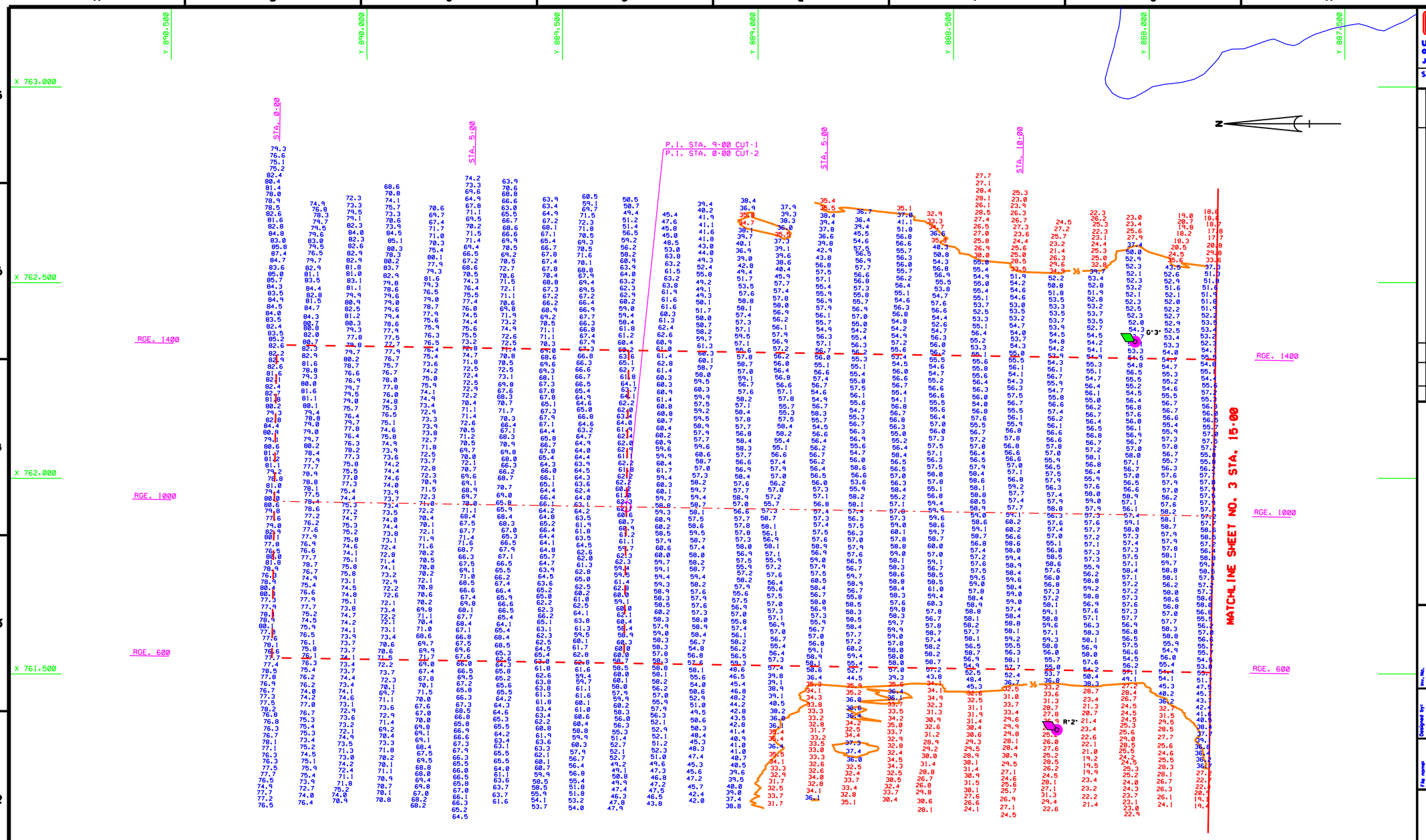
Inv. No. DACW17-XX-X-XXX
Colcode XX XXX XXXX
Scale: AS SHOWN
Plot date: XX XX XXXX
Plot scale: XXX
Designed by: WRG
Drn by: WRG
Chd by: WRG
Date: OCT 2007
D.O.FILE NO. XXX-XX,XXXX

File name: 07-095SHOLDCH
Reference files: B80P88.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
COVER AND INDEX PLAN

DRAWING NO.
1/19

SHEET 1 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (10/07)	764.357	888.236	18°28'19.83"	66°07'47.17"
LT. BUOY-3 (10/07)	762.349	888.036	18°28'17.83"	66°07'36.87"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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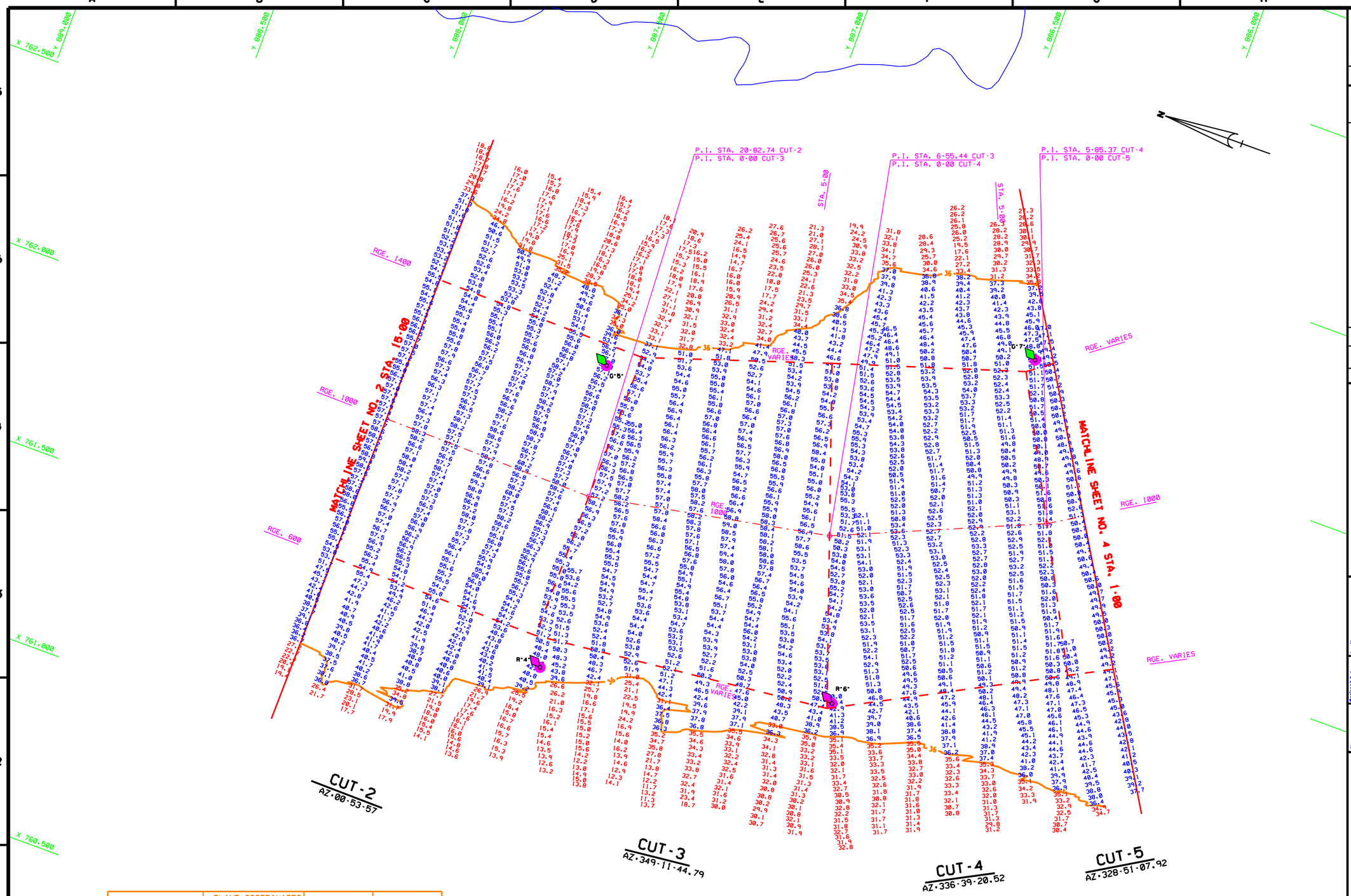
D.O. FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 0+00 CUT-1 THRU STA. 15+00 CUT-2
PLAN

DRAWING NO.
2/19

SHEET 2 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (10/07)	764.418	887.219	18°28'09.75"	66°07'46.56"
LT. BUOY-5 (10/07)	762.241	887.330	18°28'10.83"	66°07'38.00"
LT. BUOY-6 (10/07)	761.596	886.449	18°28'02.11"	66°07'44.72"
LT. BUOY-7 (10/07)	762.650	886.253	18°28'00.15"	66°07'33.77"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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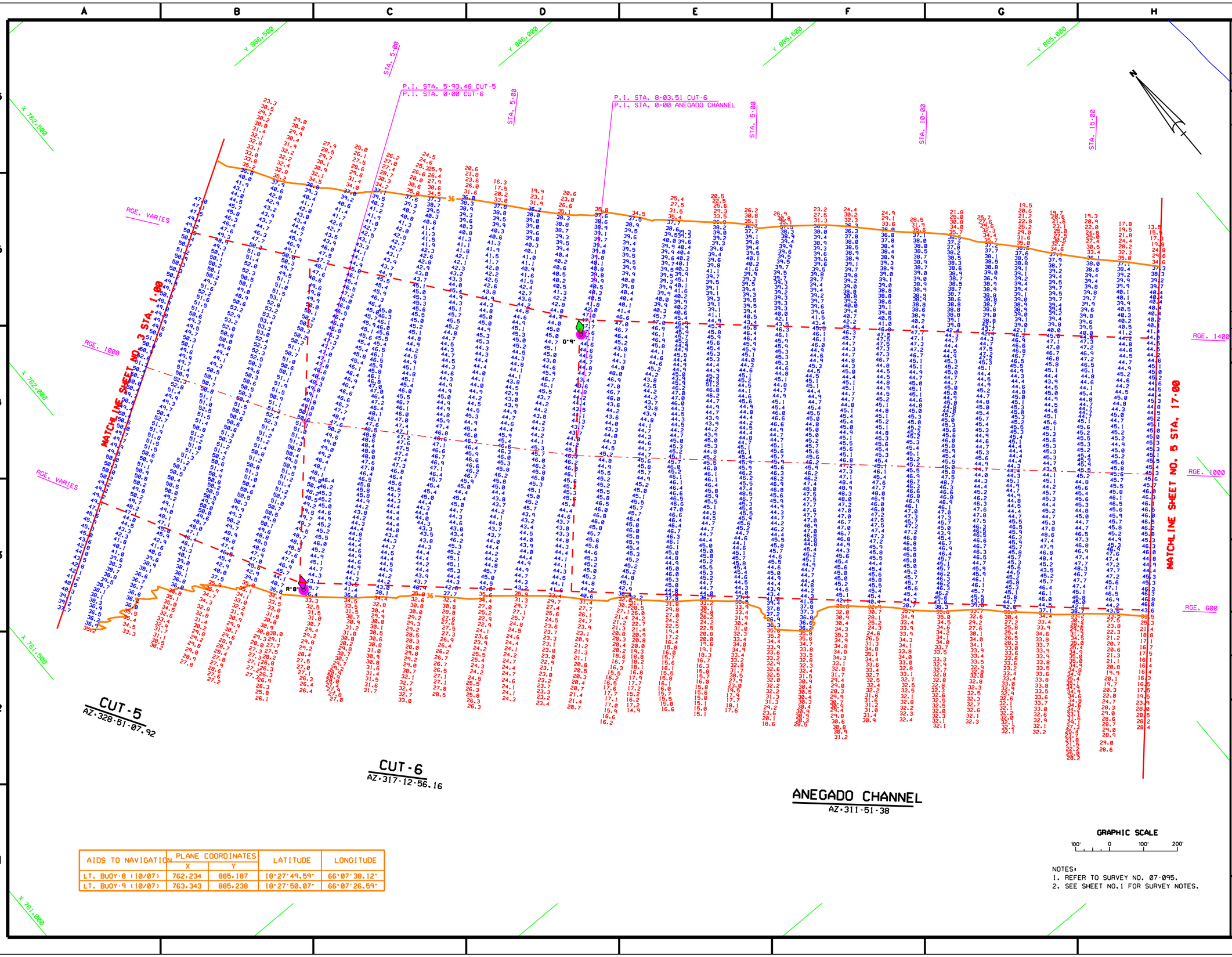
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 15+00 CUT-2 THRU STA. 1+00 CUT-5
PLAN

DRAWING NO.
3/19

SHEET 3 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-8 (10/07)	762,234	885,187	18°27'49.59"	66°07'38.12"
LT. BUOY-9 (10/07)	763,343	885,238	18°27'50.07"	66°07'26.59"

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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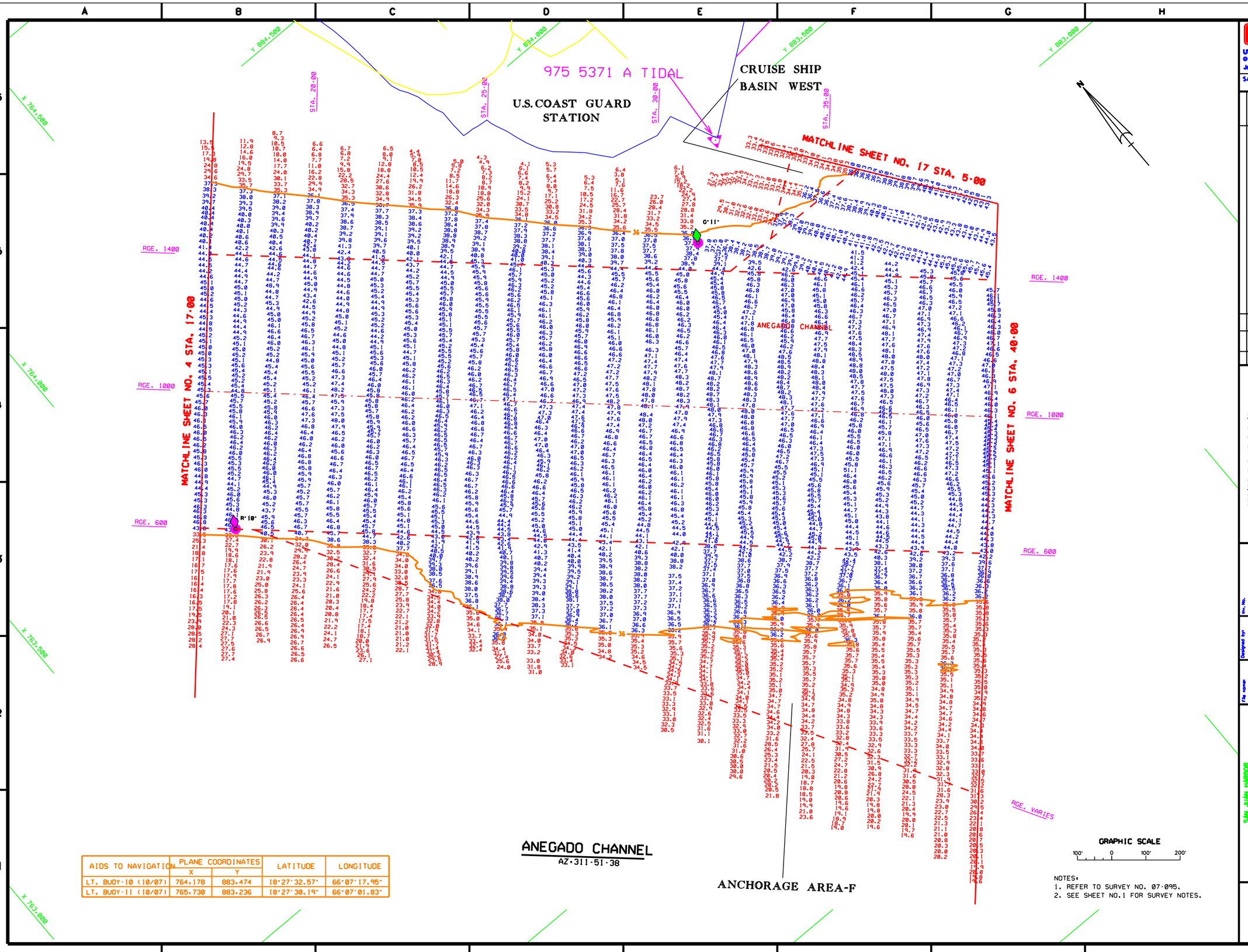
Inv. No. Date:
Date: D.O. FILE NO.

File name: 07-095SH04.DGN
Reference files: 07-095CT5.DGN 07-095CT6.DGN 07-095ANEG.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 1+00 CUT-5 THRU STA. 17+00 ANEGADO CHL.
PLAN

DRAWING NO.
4/19

SHEET 4 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-10 (10/07)	764.178	883.474	18°27'32.57"	66°07'17.95"
LT. BUOY-11 (10/07)	765.730	883.236	18°27'30.19"	66°07'01.83"

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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Jacksonville District

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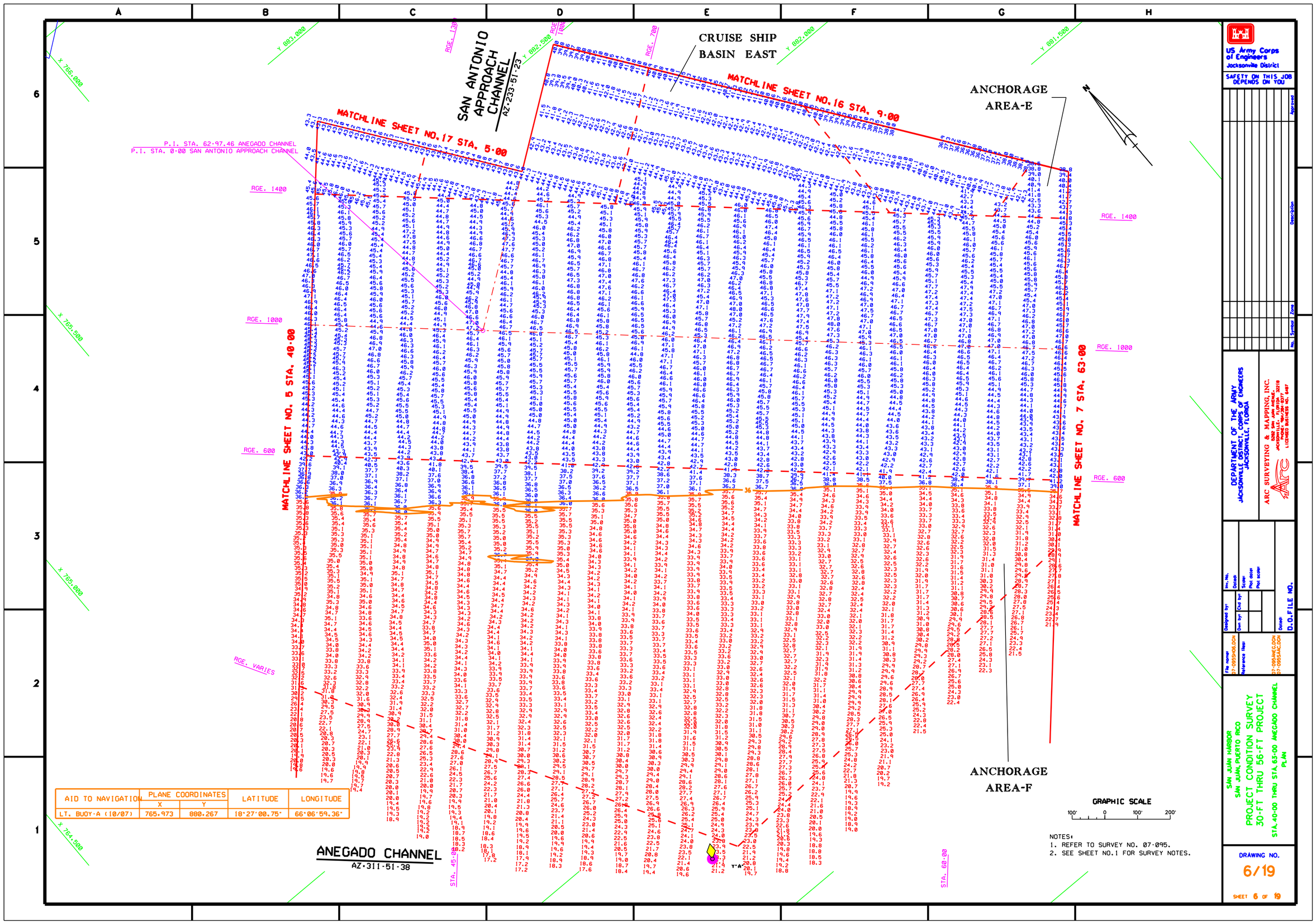
Inv. No. Date:
File name: 07-095SH05.DGN
Reference files: 07-095ANEG.DGN 07-095SANJAP.DGN
Date: D.O. FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 17+00 THRU STA. 40+00 ANEGADO CHANNEL
PLAN

DRAWING NO.
5/19
SHEET 5 OF 19



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-A (10/07)	765.973	880.267	18°27'00.75"	66°06'59.36"

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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Plot date:
Plot scale:
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File name: 07-095SHEET.DGN
Reference files: 07-095SAMCE.DGN 07-095SAMC.DGN

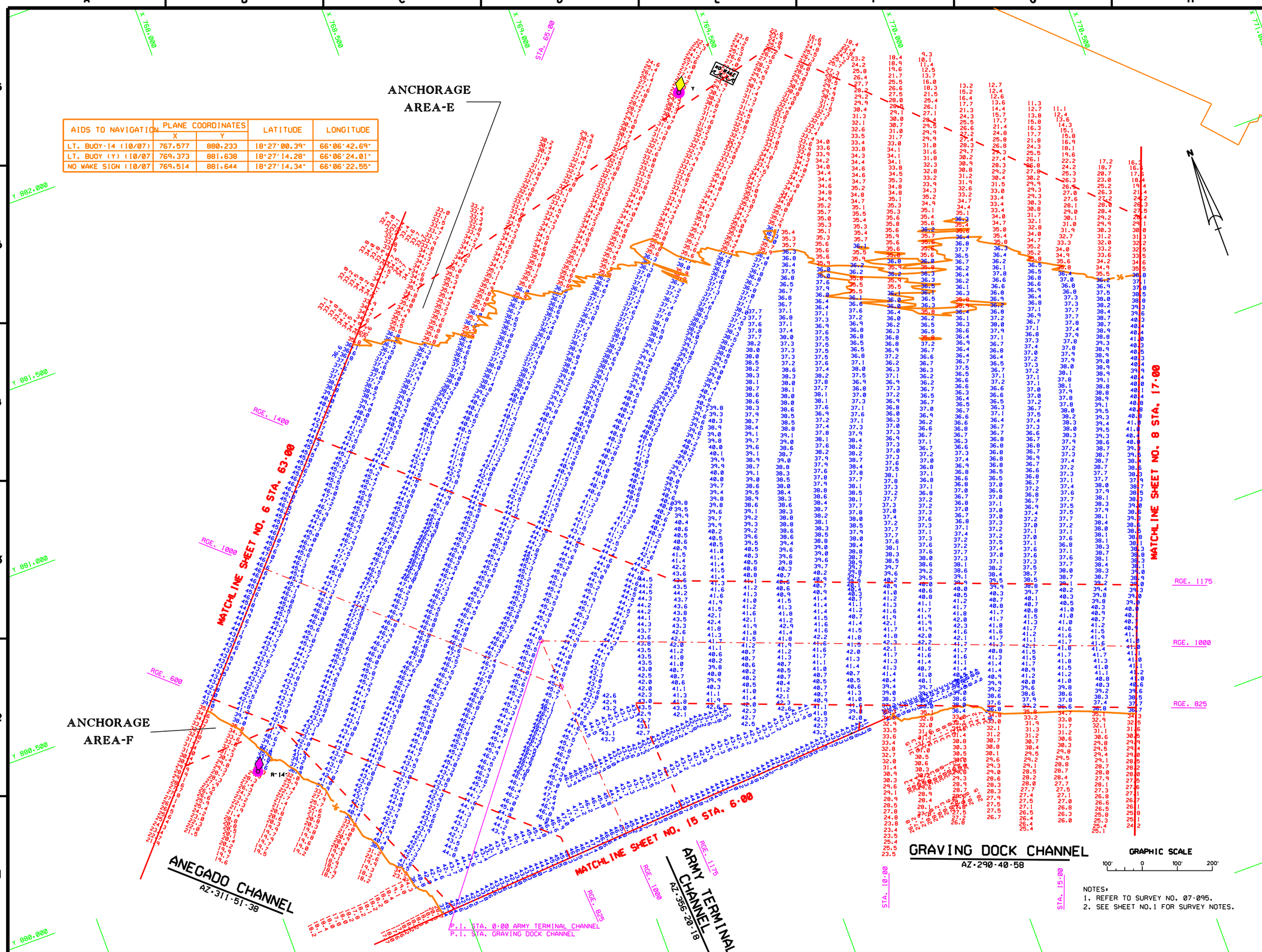
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 40+00 THRU STA. 63+00 ANEGADO CHANNEL
PLAN

DRAWING NO.
6/19

SHEET 6 OF 19

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-14 (10/07)	767.577	880.233	18°27'00.39"	66°06'42.69"
LT. BUOY (Y) (10/07	769.373	881.638	18°27'14.28"	66°06'24.01"
NO WAKE SIGN (10/07	769.514	881.644	18°27'14.34"	66°06'22.55"



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Jacksonville District

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No.	Symbol	Zone	Description	Approved

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JACKSONVILLE, FLORIDA

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(904) 384-7991 FAX (904) 387-3207
LICENSED BUSINESS NO. 6487

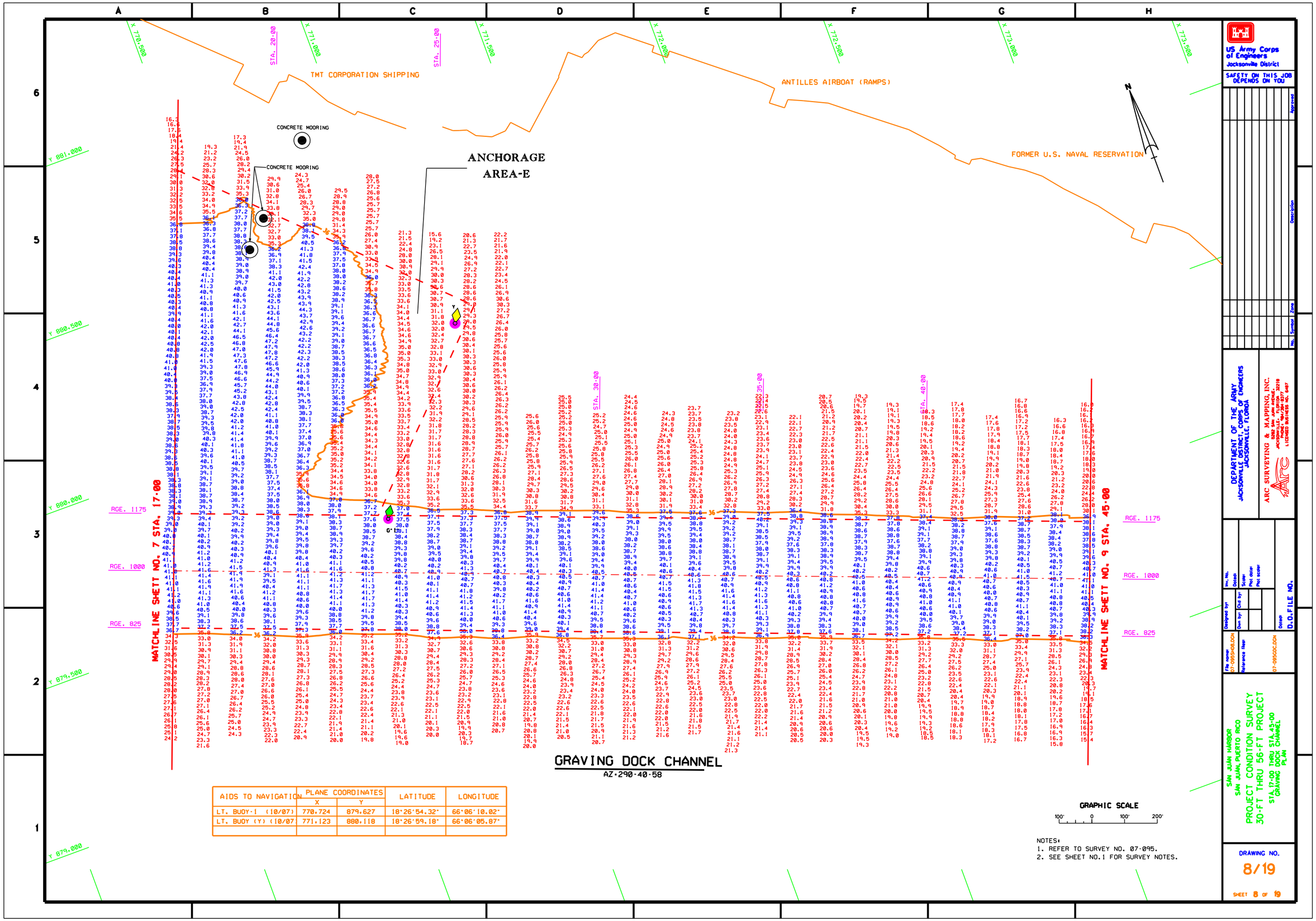
Rev. No.	
Dates	
Scale:	
Plot date	
Plot scale:	
Designed by:	
Drn by:	Chd by:
Dates:	D.O.-FILE NO.
File name: 07-095SW07.DGN	07-095MAC.DGN 07-095SUR.DGN 07-095MAP.DGN
Reference files:	

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 65+00 ANEGADO CHANNEL THRU STA. 17+00 GRAVING DOCK CHANNEL, STA. 0+00 THRU STA. 6+00 ARMY TERMINAL CHANNEL
PLAN

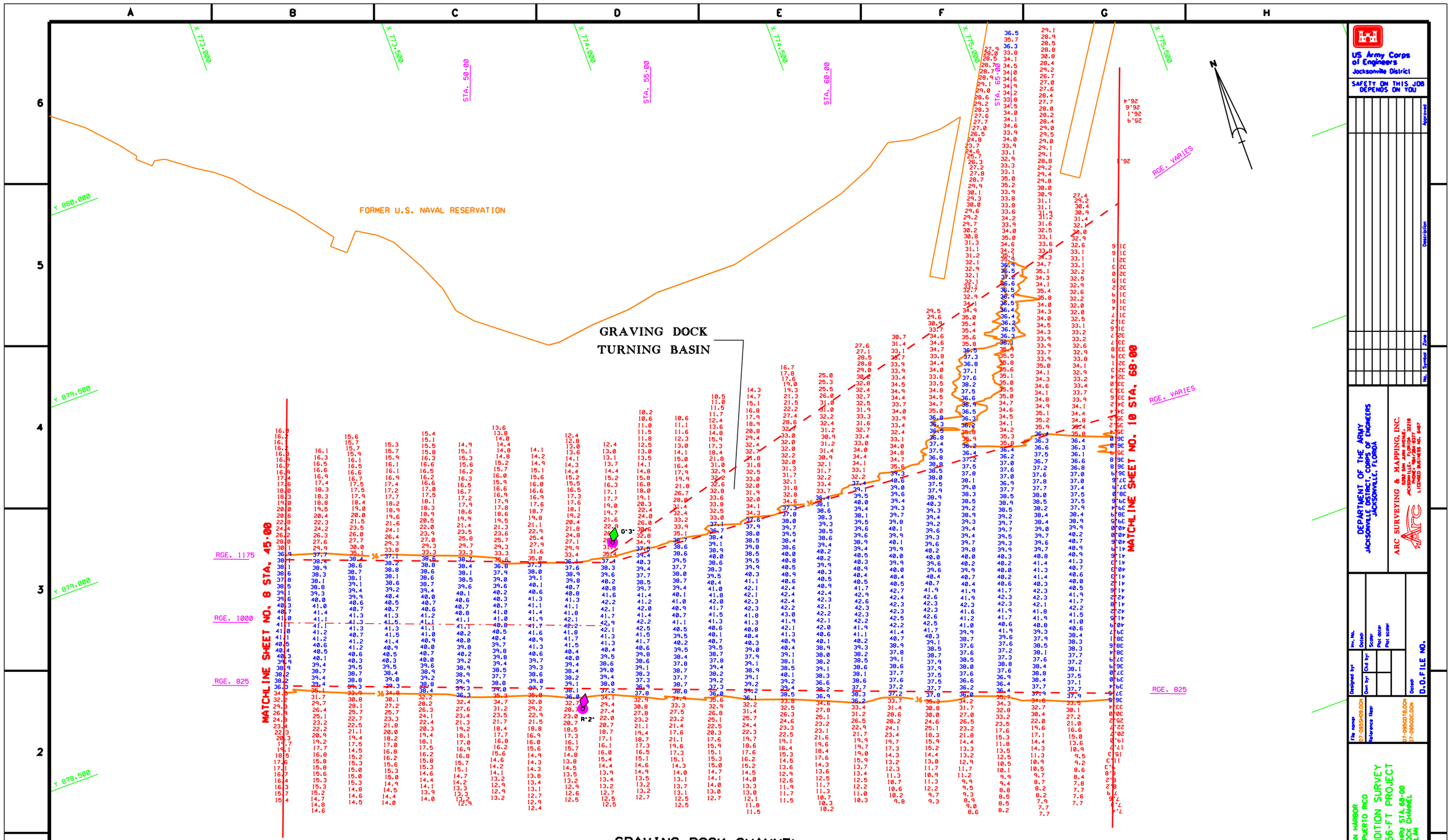
DRAWING NO.
7/19

SHEET 7 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-I (10/07)	770.724	879.627	18°26'54.32"	66°06'10.02"
LT. BUOY (Y) (10/07	771.123	880.118	18°26'59.18"	66°06'05.87"

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.



GRAVING DOCK CHANNEL

AZ·290·40·58

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (10/07)	773.367	878.206	18°26'40.19"	66°05'42.59"
LT. BUOY-3 (10/07)	773.604	878.611	18°26'44.20"	66°05'40.13"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

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(904) 384-7977 LICENSED BUSINESS NO. 6487

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Dated: D.O.FILE NO.

File name: 07-095SHD9.DGN 07-095HOC.DGN 07-095DT8.DGN 07-095OC.DGN
Reference files:

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

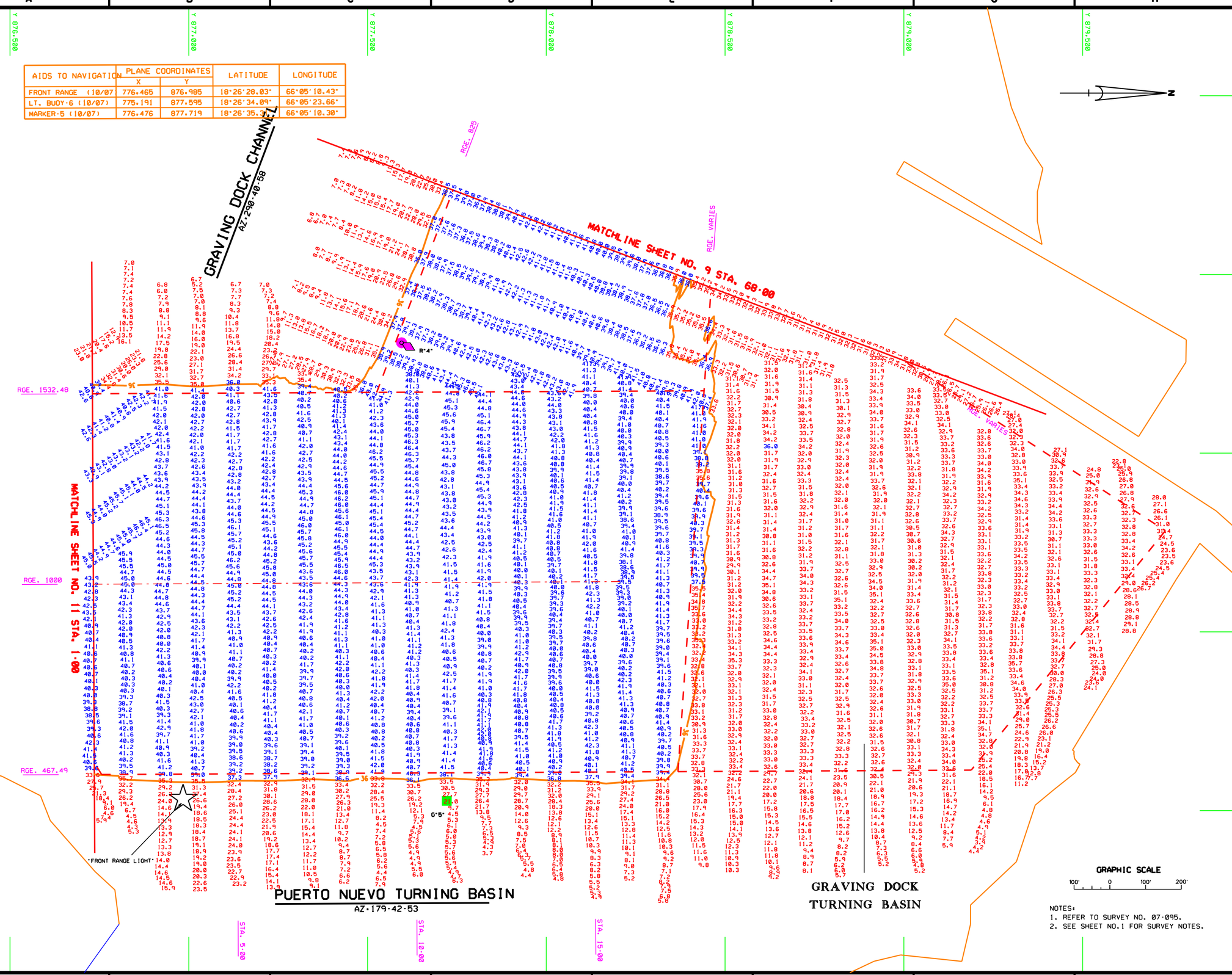
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT

STA.45+00 THRU STA.68+00
GRAVING DOCK CHANNEL
PLAN

DRAWING NO.
9/19

SHEET 9 OF 19

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
FRONT RANGE (10/07	776.465	876.985	18°26'28.03"	66°05'10.43"
LT. BUOY-6 (10/07)	775.191	877.595	18°26'34.09"	66°05'23.66"
MARKER-5 (10/07)	776.476	877.719	18°26'35.71"	66°05'10.30"



NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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JACKSONVILLE, FLORIDA

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JACKSONVILLE, FLORIDA 32210
(904) 384-8377 FAX (904) 387-8377
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SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 68+00 THRU STA. 73+37 GRAVING DOCK
CHANNEL, STA. 1+00 THRU STA. 17+71 PUERTO NUEVO TURNING BASIN
PLAN

Rev. No. | Date | Description | Approved

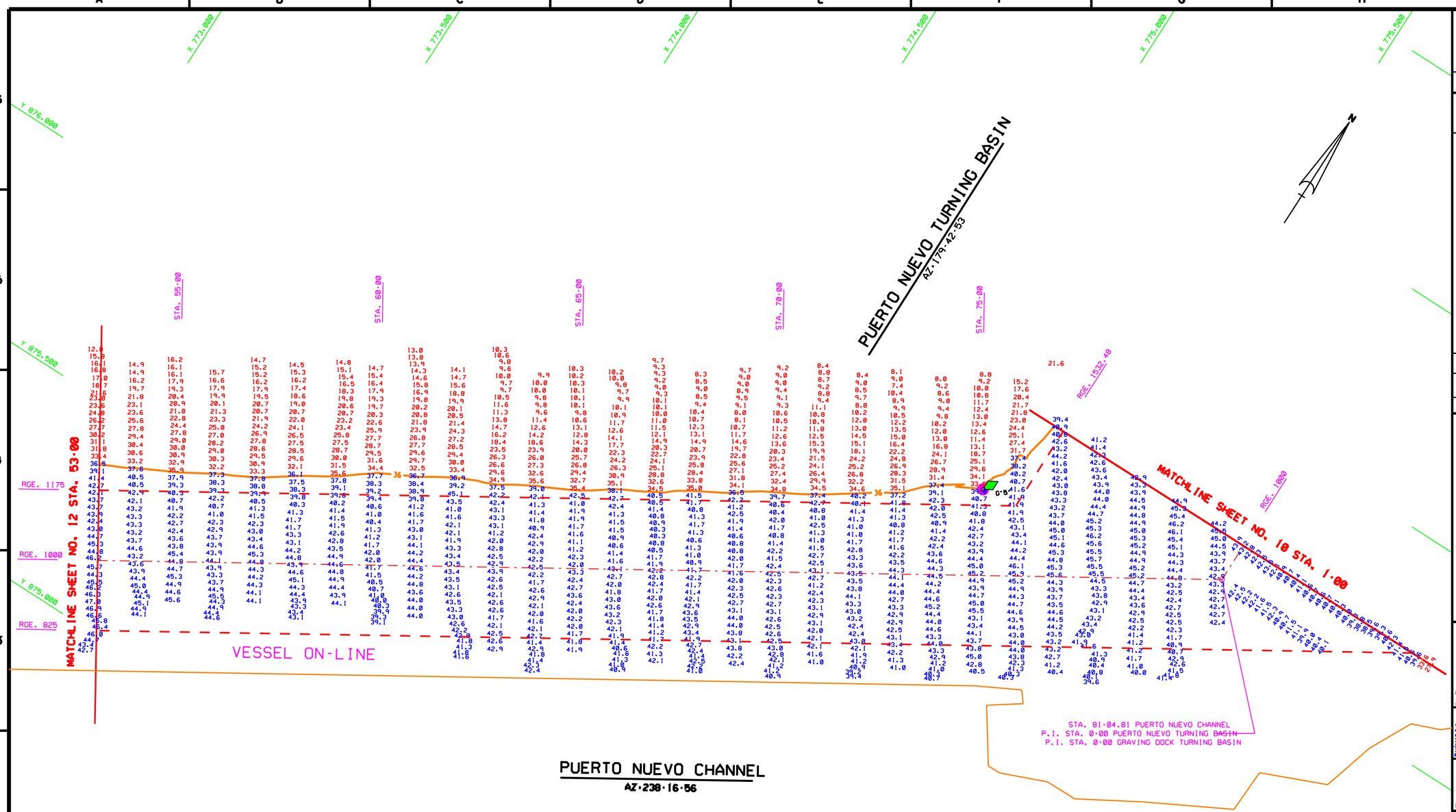
Designed by: | Drawn by: | Chd by: | Scale: | Plot date: | Plot scale:

File name: 07-095SHEL.DGN | Reference files: 07-095SHEL.DGN, 07-095BASE.DGN

Dated: D.O. FILE NO.

DRAWING NO.
10/19

SHEET 10 OF 19



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY·5 (10/07)	775.243	876.500	18°26'23.24"	66°05'23.14"

NOTES:
1. REFER TO SURVEY NO. 07-095.
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

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(904) 384-7857 FAX (904) 387-6377
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Date:
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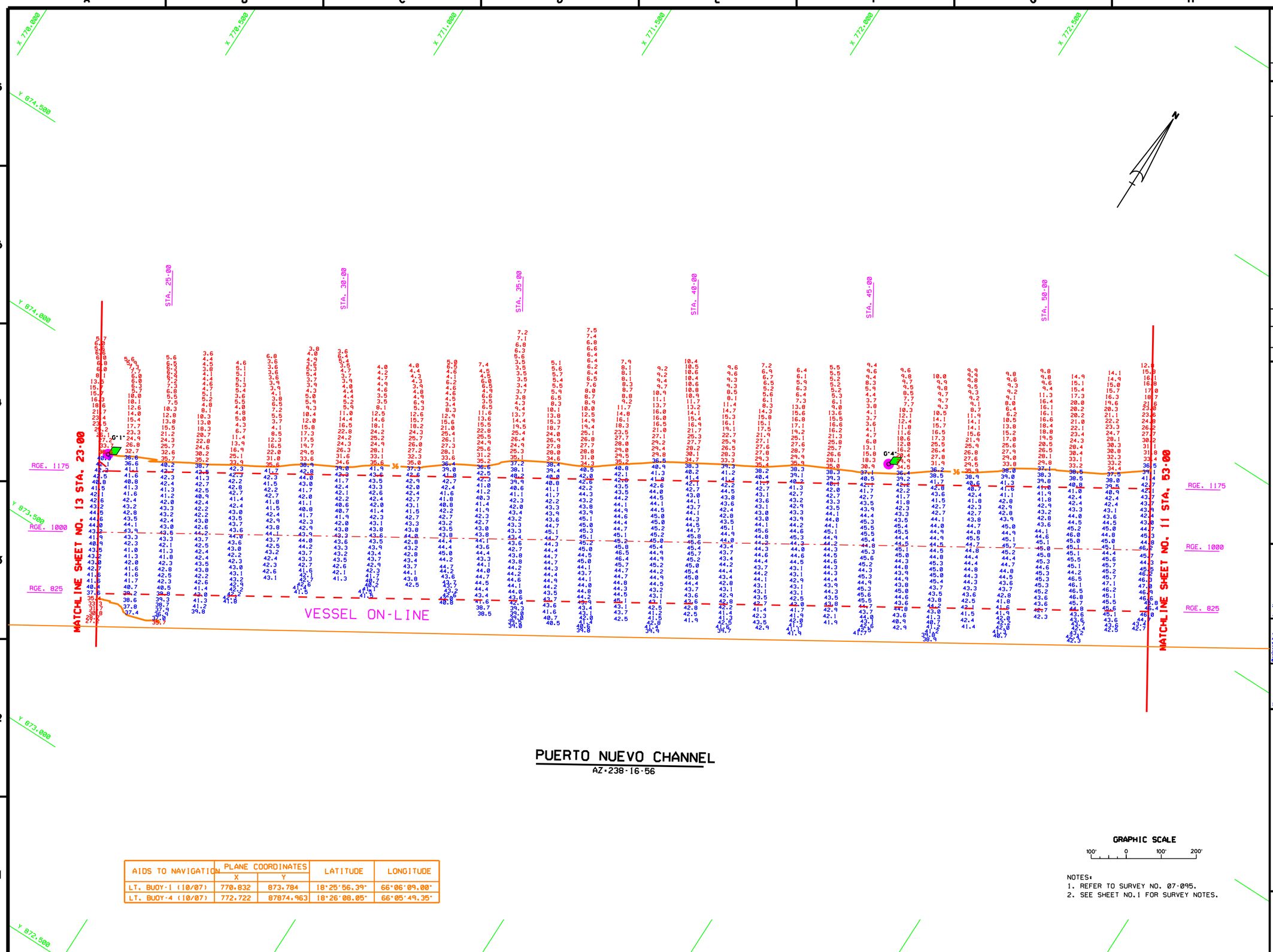
Cad by:
Scale:
Plot date:
Plot scale:
Dates:
D.O.F.FILE NO.

File name: 07-095SHT1.DGN
Reference files: 07-095PNC.DGN 07-095PNT8.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.53+00 PUERTO NUEVO CHANNEL THRU
STA.1+00 PUERTO NUEVO TURNING BASIN
PLAN

DRAWING NO.
11/19

SHEET 11 OF 19



PUERTO NUEVO CHANNEL

AZ-238-16-56

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-1 (10/07)	770.832	873.784	18°25'56.39"	66°06'09.00"
LT. BUOY-4 (10/07)	772.722	87874.963	18°26'08.05"	66°05'49.35"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-095.
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

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5202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
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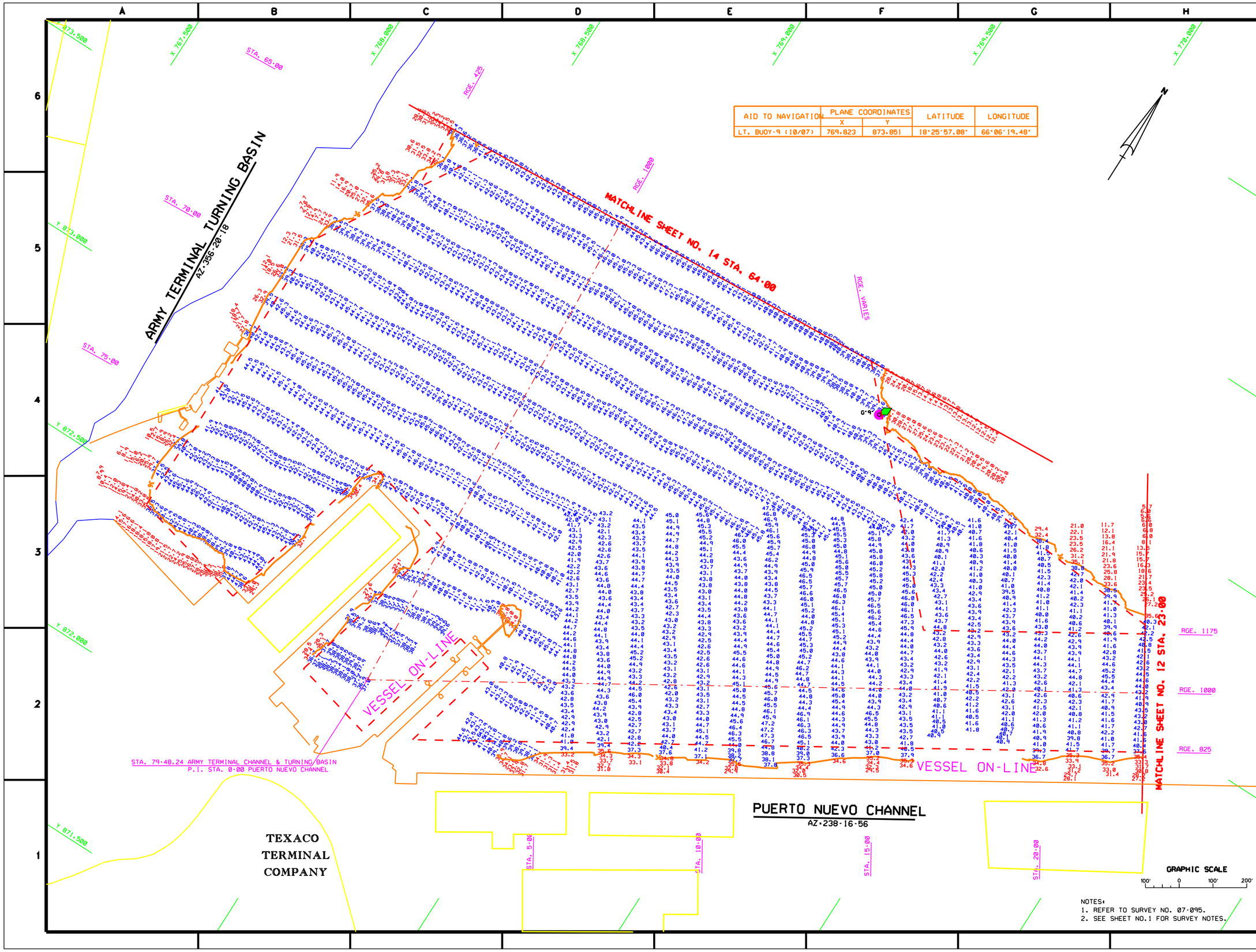
File name: 07-095SH12.DGN
Reference files: 07-095PNC.DGN

Dated: D.O.FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.23+00 THRU STA.53+00 PUERTO NUEVO CHANNEL
PLAN

DRAWING NO.
12/19

SHEET 12 OF 19



AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-9 (10/07)	769.823	873.851	18°25'57.08"	66°06'19.48"

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

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JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-0377
LICENSED BUSINESS NO. 6487

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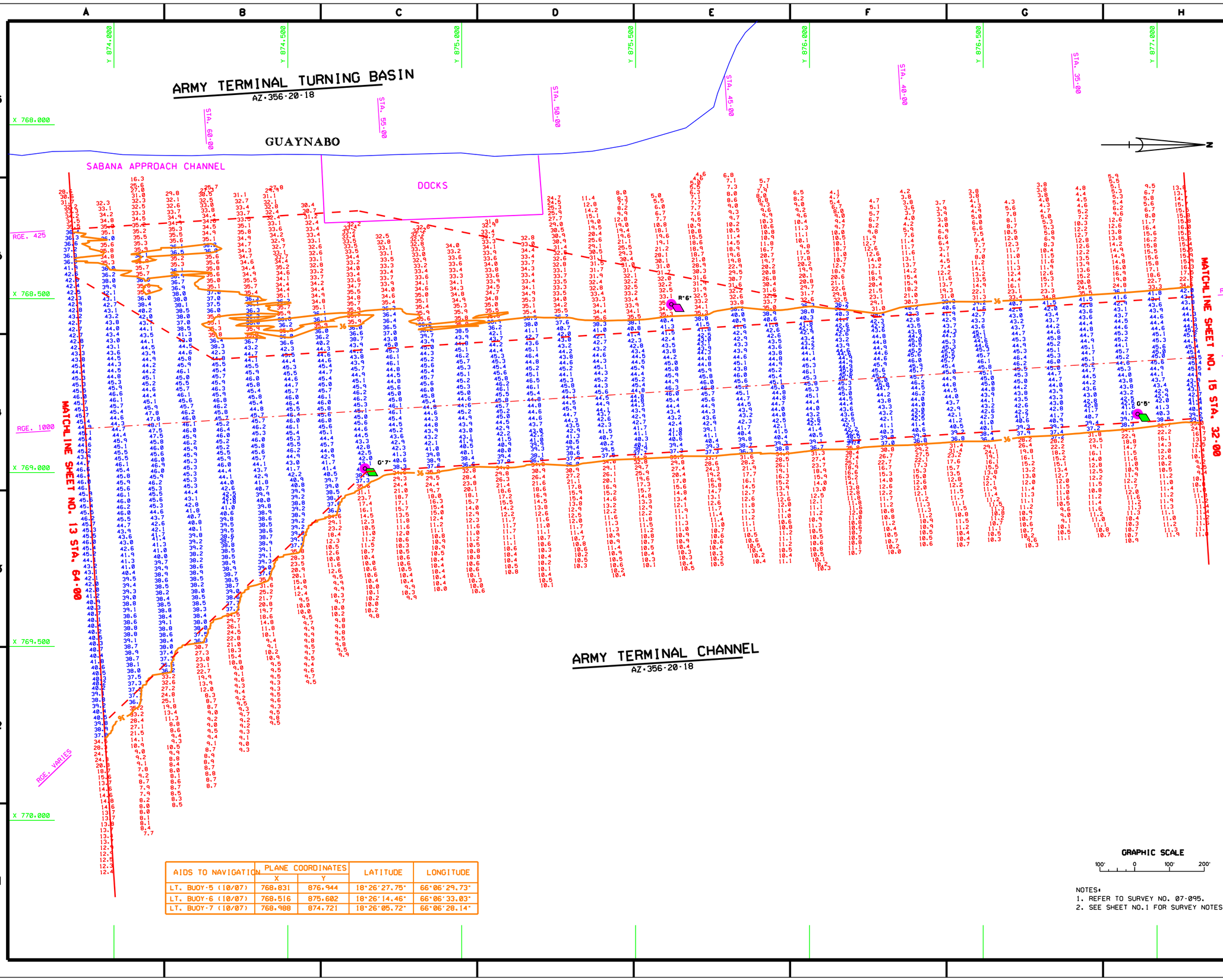
Scale: | Plot date:
Plot scale:

File name: 07-095SH15.DGN
Reference files: 07-095PNC.DGN 07-095ATTB.DGN
Dated: D.O.FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 64·00 THRU STA. 79·48.24 ARMY TERMINAL CHANNEL AND STA. 0·00 THRU STA. 23·00 PUERTO NUEVO CHANNEL
PLAN

DRAWING NO.
13/19

SHEET 13 OF 19



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-5 (10/07)	768.831	876.944	18°26'27.75"	66°06'29.73"
LT. BUOY-6 (10/07)	768.516	875.602	18°26'14.46"	66°06'33.03"
LT. BUOY-7 (10/07)	768.988	874.721	18°26'05.72"	66°06'28.14"

NOTES:
1. REFER TO SURVEY NO. 07-095.
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

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904-384-8377
LICENSED BUSINESS NO. 6487

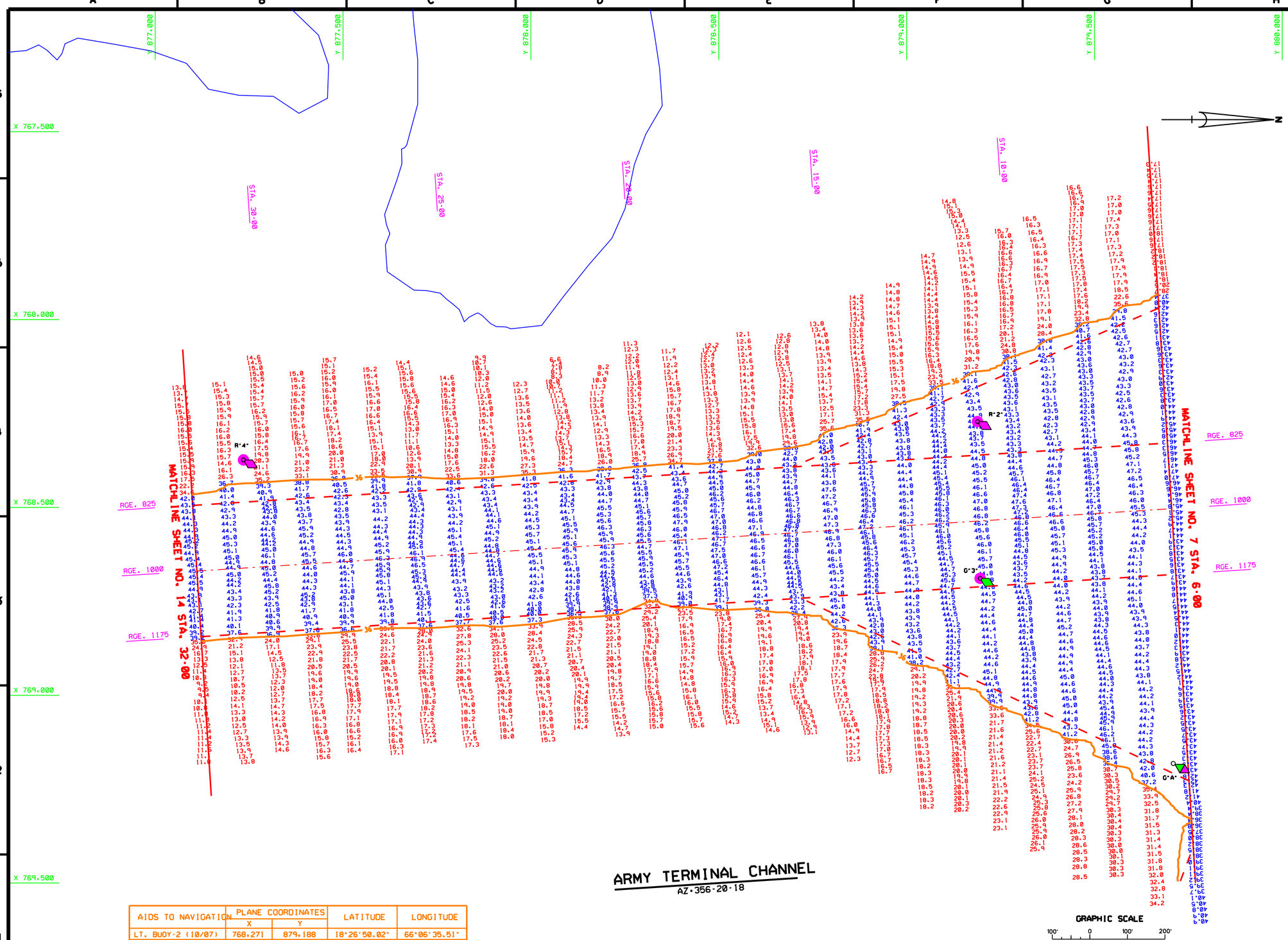
Designed by: | Inv. No.
Dwn by: | Ckd by: | Date:
Scale: | Plot date:
Plot scale:

File name: 07-095SH14.DGN
Reference files: 07-095ATC.DGN 07-095ATTB.DGN
Dated: D.O.FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 32+00 THRU STA. 64+00 ARMY TERMINAL CHANNEL
PLAN

DRAWING NO.
14/19

SHEET 14 OF 19



ARMY TERMINAL CHANNEL

AZ-356-20-18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (10/07)	768.271	879.188	18°26'50.02"	66°06'35.51"
LT. BUOY-3 (10/07)	768.688	879.195	18°26'50.08"	66°06'31.17"
LT. BUOY-4 (10/07)	768.373	877.234	18°26'30.65"	66°06'34.48"
BUOY-A (10/07)	769.181	879.709	18°26'55.16"	66°06'26.05"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone	Description	Approved

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ARC SURVEYING & MAPPING, INC.
5262 SAN JUAN AVENUE,
JACKSONVILLE, FLORIDA 32210
(904) 384-7800 FAX (904) 384-7977
LICENSED BUSINESS NO. 6487

Rev. No.
Dated:
Scale:
Plot date:
Plot scale:

Designed by:
Dwn by:
Chk by:

Dated:
D.O.FILE NO.

File name: 07-095SHIB.DGN
Reference files: 07-095ATC.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO

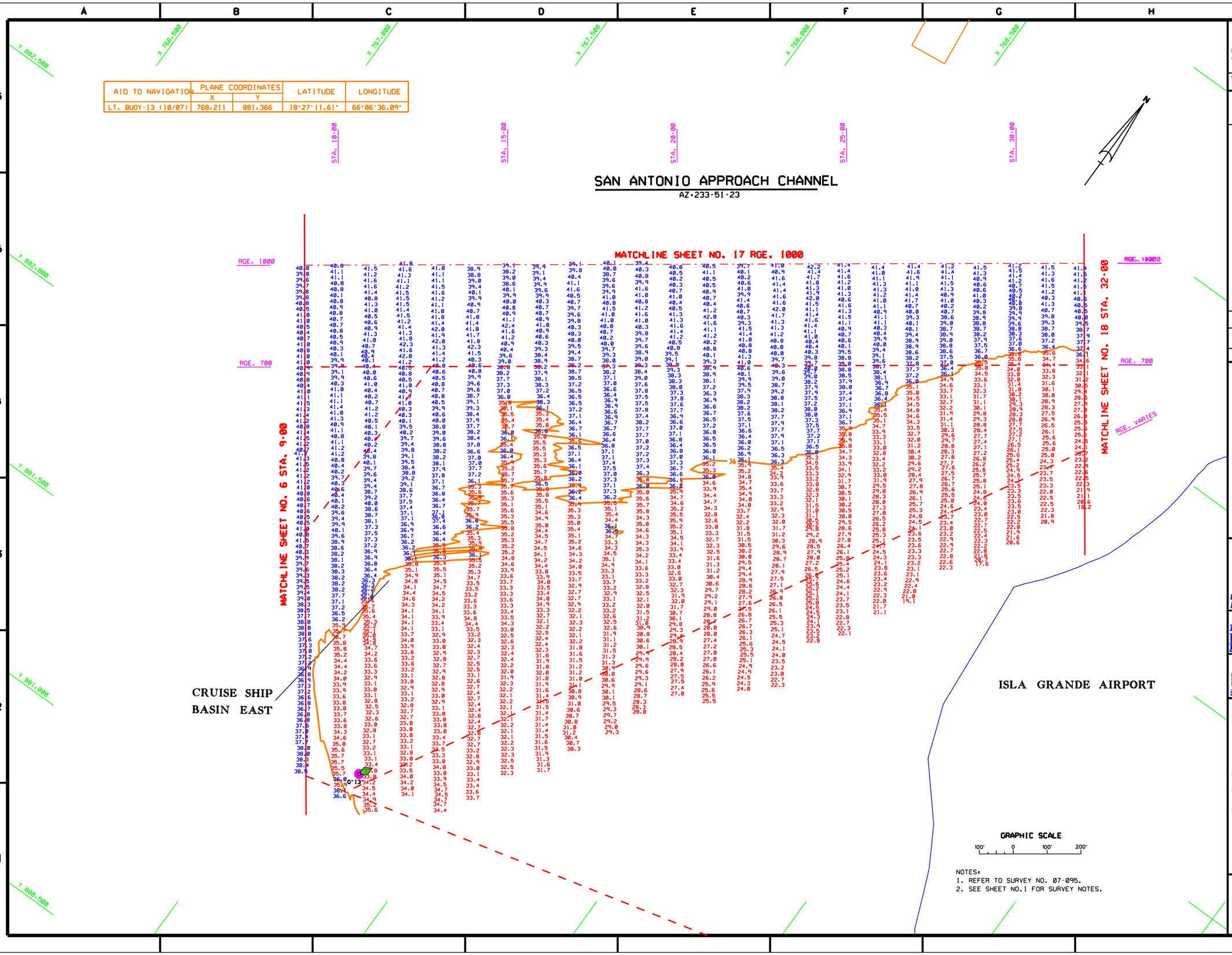
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT

STA. 6+00 THRU STA. 32+00 ARMY TERMINAL CHANNEL
PLAN

DRAWING NO.
15/19

SHEET 15 OF 19

AID TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-13 (10/07)	768.211	881.366	18°27'11.61"	66°06'36.09"



NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

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JACKSONVILLE, FLORIDA

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JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
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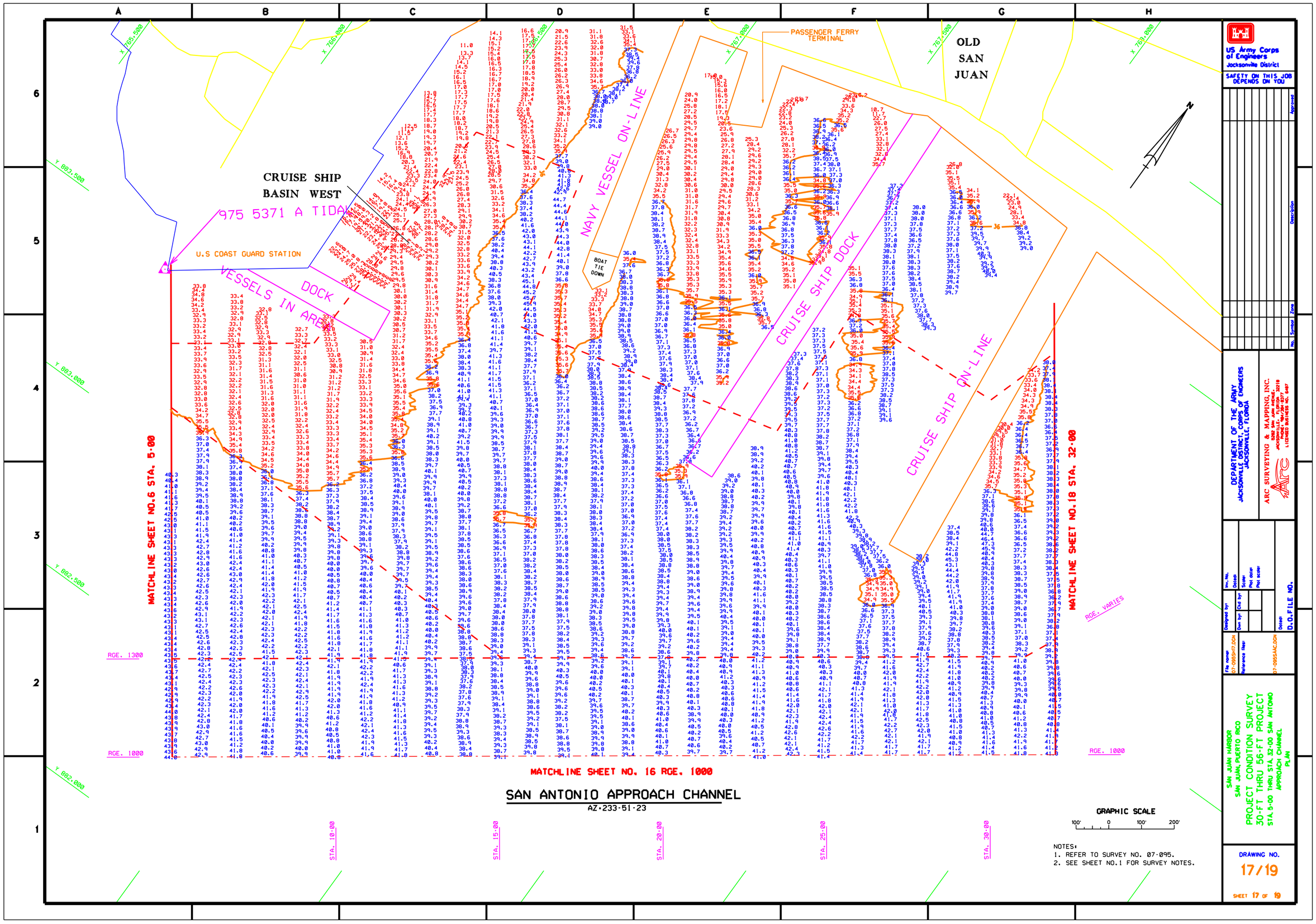
Dated: D.O.FILE NO.

File name: 07-095SHIG.DGN
Reference files: 07-095SAAC.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 9+00 THRU STA. 32+00 SAN ANTONIO APPROACH CHANNEL
PLAN

DRAWING NO.
16/19

SHEET 16 OF 19



SAN ANTONIO APPROACH CHANNEL

AZ-233-51-23

NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

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5202 SAN JUAN AVENUE
JACKSONVILLE, FLORIDA 32210
PHONE: 904/384-8377
LICENSED BUSINESS NO. 6487

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Scale: | Plot date:
Plot scale:

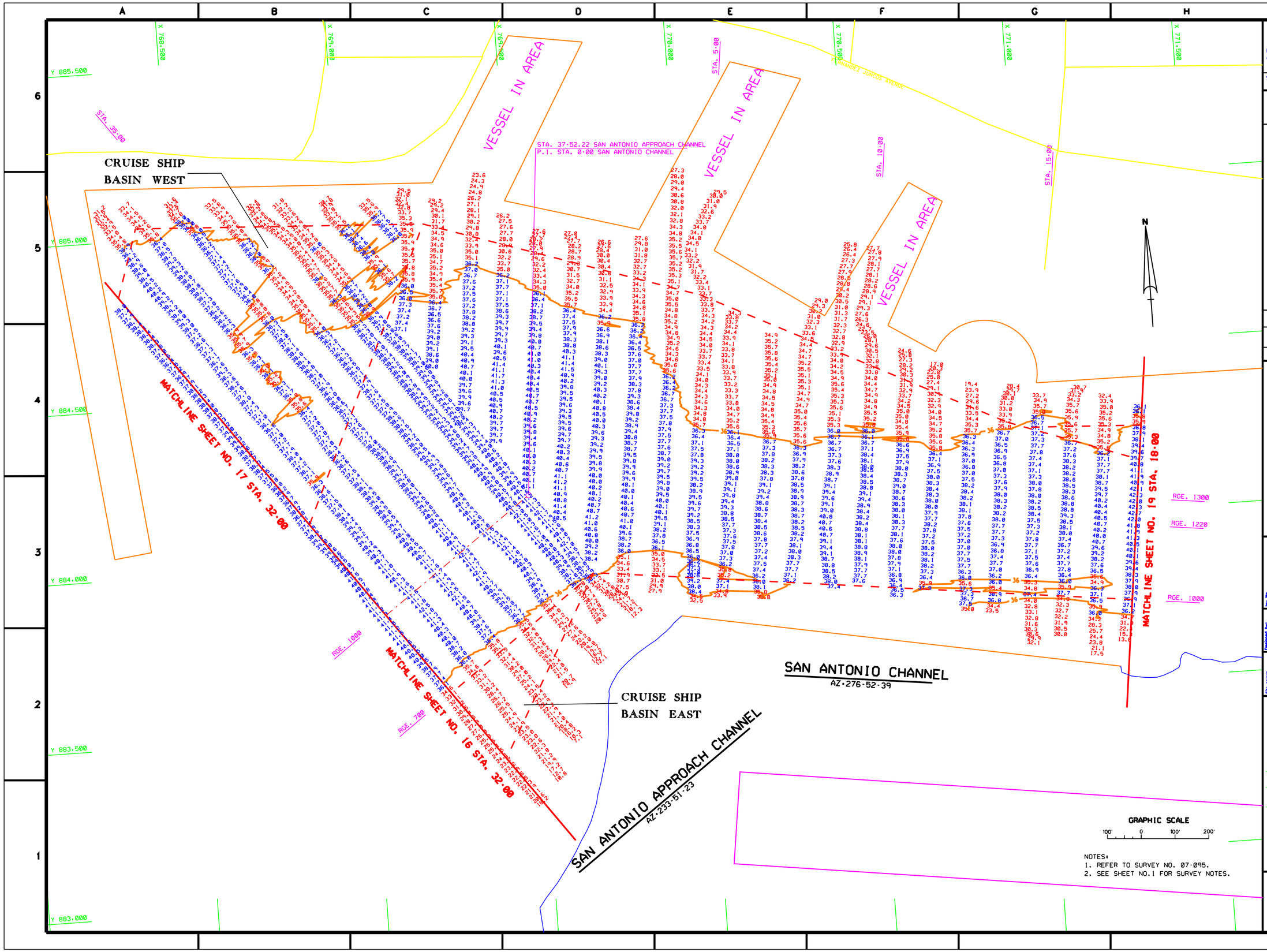
File name: 07-095SHT17.DGN
Reference files: 07-095SAJC.DGN

Dated: D.O.FILE NO.

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA.5+00 THRU STA.32+00 SAN ANTONIO APPROACH CHANNEL
PLAN

DRAWING NO.
17/19

SHEET 17 OF 19


VESSEL IN AREA
VESSEL IN AREA
VESSEL IN AREA
STA. 37+52.22 SAN ANTONIO APPROACH CHANNEL
P.I. STA. 0+00 SAN ANTONIO CHANNEL
STA. 5+00
STA. 10+00
STA. 15+00
STA. 25+00
FERNANDEZ JUNCOS AVENUE
CRUISE SHIP BASIN WEST
CRUISE SHIP BASIN EAST
MATCHLINE SHEET NO. 17 STA. 32+00
MATCHLINE SHEET NO. 16 STA. 32+00
MATCHLINE SHEET NO. 19 STA. 18+00
SAN ANTONIO CHANNEL
AZ·276·52·39
SAN ANTONIO APPROACH CHANNEL
AZ·233·51·23
RGE. 1300
RGE. 1220
RGE. 1000
RGE. 700
GRAPHIC SCALE
100' 0 100' 200'
NOTES:
1. REFER TO SURVEY NO. 07-095.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
US Army Corps of Engineers
Jacksonville District
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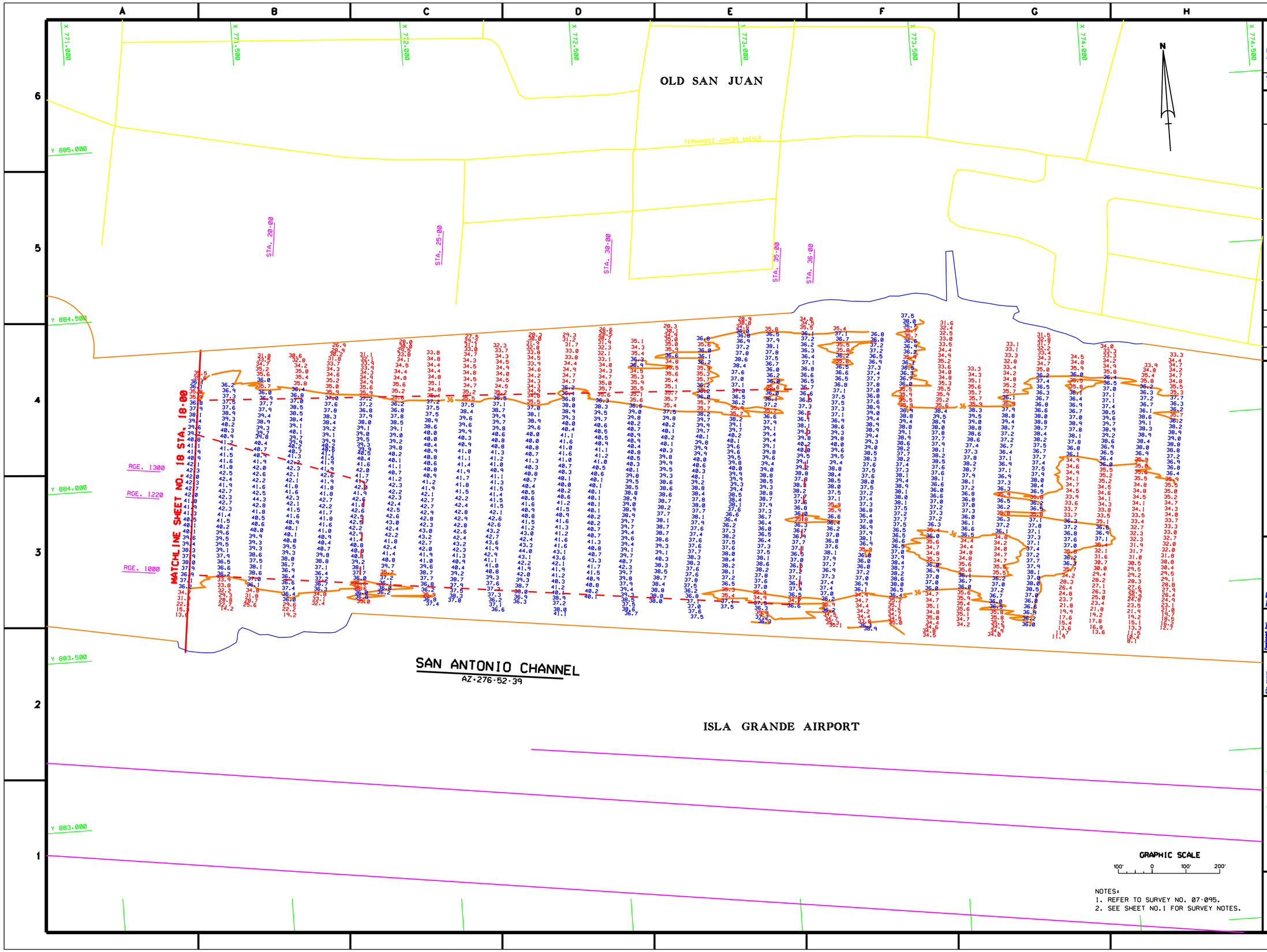
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
ARC SURVEYING & MAPPING, INC.
SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 32+00 SAN ANTONIO APPROACH CHANNEL
THRU STA. 18+00 SAN ANTONIO CHANNEL
PLAN
D.O.FILE NO.
DRAWING NO.
18/19
SHEET 18 OF 19



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Jacksonville District

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Dated: D.O.FILE NO.

File name: 07-095SH19.DGN
Reference files: 07-095SAC.DGN

SAN JUAN HARBOR
SAN JUAN, PUERTO RICO
PROJECT CONDITION SURVEY
30-FT THRU 56-FT PROJECT
STA. 18+00 THRU STA. 36+00 SAN ANTONIO CHANNEL
PLAN

DRAWING NO.
19/19

SHEET 19 OF 19