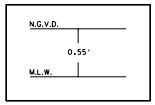
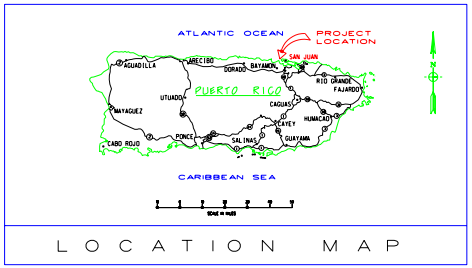
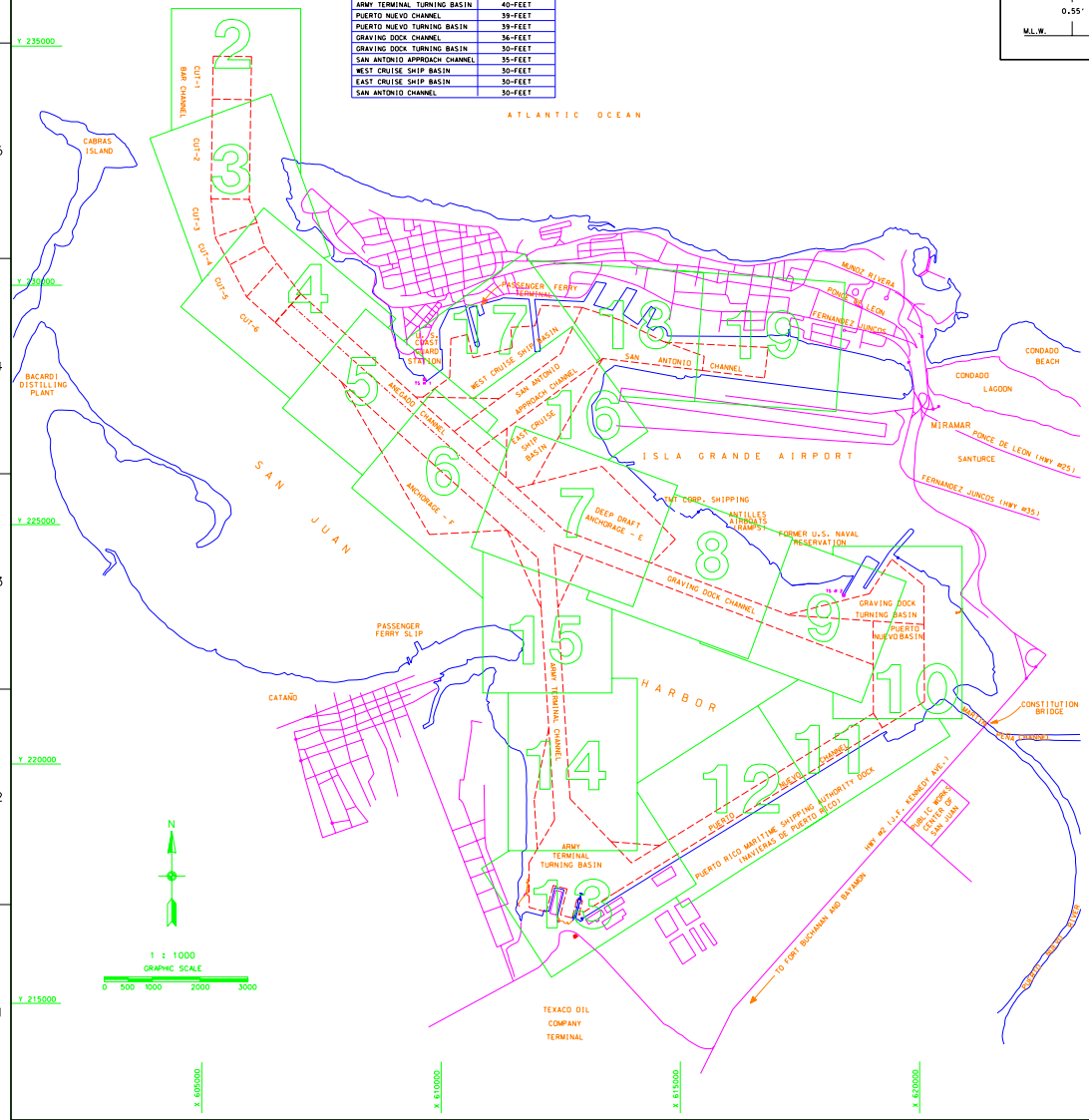
CHANNEL	AUTHORIZED PROJECT DEPTH
BAR CHANNEL CUT-1	56-FEET
BAR CHANNEL CUT-2	53-FEET
BAR CHANNEL CUT-3	51-FEET
BAR CHANNEL CUT-4	48-FEET
BAR CHANNEL CUT-5	48-FEET
BAR CHANNEL CUT-6	42-FEET
ANEGADO CHANNEL	40-FEET
ANCHORAGE AREA-F	30-FEET
DEEP DRAFT ANCHORAGE-E	36-FEET
ARMY TERMINAL CHANNEL	40-FEET
SABANA APPROACH CHANNEL	32-FEET
ARMY TERMINAL TURNING BASIN	40-FEET
PUERTO NUEVO CHANNEL	39-FEET
PUERTO NUEVO TURNING BASIN	39-FEET
GRAVING DOCK CHANNEL	36-FEET
GRAVING DOCK TURNING BASIN	30-FEET
SAN ANTONIO APPROACH CHANNEL	35-FEET
WEST CRUISE SHIP BASIN	30-FEET
EAST CRUISE SHIP BASIN	30-FEET
SAN ANTONIO CHANNEL	30-FEET

VERTICAL DATUM DIAGRAM





LOCATION MAP



AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT. X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
YELLOW A	613066.7500	226178.7770	66°06'25.47675"	18°27'21.41639"	STA 3+75.97	1560.8127	GRAVING DOCK CHANNEL
GREEN/RED A	612829.6100	224217.9220	66°06'27.97634"	18°27'01.98071"	STA 8+46.68	357.4217	GRAVING DOCK CHANNEL
GREEN 1	614446.0000	224154.4220	66°06'11.18605"	18°27'01.95201"	STA 23+81.32	154.0709	GRAVING DOCK CHANNEL
YELLOW	614843.8000	224731.9320	66°06'07.04423"	18°27'07.04078"	STA 25+49.51	834.8611	GRAVING DOCK CHANNEL
GREEN 3	617203.2500	223183.8280	66°05'42.56488"	18°26'51.65005"	STA 53+03.67	219.8783	GRAVING DOCK CHANNEL
RED 2	617022.2500	222730.4020	66°05'44.45368"	18°26'47.15816"	STA 52+94.48	268.2528	GRAVING DOCK CHANNEL
RED 4	618822.9900	222152.0720	66°05'25.76014"	18°26'41.39142"	STA 71+64.02	173.0099	GRAVING DOCK TURNING BASIN
GREEN 5	618929.8800	221120.8820	66°05'24.66992"	18°26'31.16620"	STA 75+32.71	283.7014	PUERTO NUEVO CHANNEL
GREEN 3	616393.8200	219570.4720	66°05'51.04155"	18°26'15.84202"	STA 45+60.31	298.1458	PUERTO NUEVO CHANNEL
GREEN 1	614797.2100	218465.0830	66°06'07.64593"	18°26'04.91178"	STA 26+21.01	197.2429	PUERTO NUEVO CHANNEL
GREEN 9	613472.3400	218394.4870	66°06'21.40873"	18°26'04.23574"	STA 65+27.25	893.5641	ARMY TERMINAL TURNING BASIN
GREEN 7	612629.6200	219222.9420	66°06'30.14582"	18°26'12.46373"	STA 56+46.67	105.4733	ARMY TERMINAL CHANNEL
RED 6	612179.9300	220057.4920	66°06'34.80130"	18°26'20.74537"	STA 47+85.10	290.0000	ARMY TERMINAL CHANNEL
RED 4	612065.6100	221728.1020	66°06'35.95808"	18°26'37.30983"	STA 31+10.60	297.3941	ARMY TERMINAL CHANNEL
GREEN 5	612593.8400	221447.3680	66°06'30.48280"	18°26'34.51731"	STA 34+24.50	211.8284	ARMY TERMINAL CHANNEL
GREEN 3	612393.2500	223685.3420	66°06'32.51884"	18°26'56.70818"	STA 11+78.28	154.5746	ARMY TERMINAL CHANNEL
RED 2	611951.8900	223725.9720	66°06'38.14144"	18°26'57.12047"	STA 11+03.16	383.0851	ARMY TERMINAL CHANNEL
GREEN 13	611863.7200	225920.8220	66°06'37.97837"	18°27'18.88001"	STA 10+18.85	1467.3011	SAN ANTONIO APPROACH CHANNEL
RED 14	611298.0000	224748.5120	66°06'43.87632"	18°27'07.26759"	STA 65+35.20	554.3176	ANEGADO CHANNEL
GREEN 11	609411.8300	227753.0730	66°07'03.41531"	18°27'37.08730"	STA 31+25.40	424.7084	ANEGADO CHANNEL
RED 10	607759.6600	228020.0510	66°07'20.57353"	18°27'39.76216"	STA 17+00.00	478.9637	ANEGADO CHANNEL
GREEN 9	607015.4100	229822.1620	66°07'28.27334"	18°27'57.64073"	STA 12+00.00	361.1788	BAR CHANNEL CUT-5
RED 8	605915.9800	229741.1520	66°07'39.68811"	18°27'56.85588"	STA 6+00.00	500.7366	BAR CHANNEL CUT-5
GREEN 7	606325.7500	230819.5820	66°07'35.42047"	18°28'07.54062"	STA 5+85.37	425.9464	BAR CHANNEL CUT-4
RED 6	605228.0700	231014.6980	66°07'46.82048"	18°28'09.49308"	STA 7+00.00	506.0483	BAR CHANNEL CUT-3
RED 4	605094.4600	231194.8020	66°07'48.19509"	18°28'11.22926"	STA 0+00.00	498.7134	BAR CHANNEL CUT-3
RED 2	605171.3900	232816.3220	66°07'47.37726"	18°28'27.95015"	STA 3+00.00	438.5610	BAR CHANNEL CUT-2

NOTES:

1. REFER TO SURVEY NO. 02-096.
2. PLANE COORDINATES ARE BASED ON THE LAMBERT CONIC PROJECTION FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS. NORTH ZONE AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1927 (NAD 27-FEET).
3. ALL AZIMUTHS ARE GRID: RECKONED CLOCKWISE FROM SOUTH.
4. STATIONING REFERS TO CENTERLINE OF CHANNEL EXCEPT FOR WIDENER STATIONING.
5. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER (MLW) DATUM WHICH IS 0.55 FEET BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929 [NGVD 29].
6. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS PRECEDED BY PLUS SIGN (+).
7. THE SURVEY DATA DEPICTED ON THIS MAP WAS OBTAINED DURING THE PERIOD OF MAY, JUNE AND JULY 2002.
   REFER TO RAW FIELD DATA:
   DEPTH SOUNDER [FATHOMETER] GRAPH PAPER ROLL. DATED MAY 28 THRU JULY 1, 2002.
8. EQUIPMENT & HYDRO SURVEY INFORMATION:
   POSITIONING: DGPS ASHTECH RELIANCE
   SOUNDER: ECHOTRAC DF 3200 MK II. HIGH FREQUENCY
   REFERENCE STATION: U.S. COAST GUARD NAV BEACON - ISABELA. PUERTO RICO
   DGPS CALIBRATION STATION: SJH-44 & DRY DOCK.
   LOCATION OF TIDE STAFF: TS # 1 COAST GUARD AREA & TS # 2 DRY DOCK.
   BENCH MARK: SJH-44 & DRY DOCK.
   VESSEL: RLDA BOTTOM MAPPER 1
9. STANDARD FIELD CALIBRATIONS FOR ALL EQUIPMENT WAS PERFORMED. RESULTING ACCURACY WAS WITHIN MANUFACTURER'S SPECIFICATIONS.
10. THE INFORMATION DEPICTED IN THESE DRAWINGS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATED GENERAL CONDITIONS EXISTING AT THAT TIME.

NOTES:
1. REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SURVEYOR'S CERTIFICATE

THE UNDERSIGNED, REGISTERED SURVEYOR LICENCE NO. 7537, AUTHORIZED TO EXERCISE HIS PROFESSION IN PUERTO RICO. DOES HEREBY CERTIFY THAT THE ABOVE DISTANCES AND THAT THE PLAT HEREON DRAWN IS A TRUE REPRESENTATION OF THE EXISTING CONDITION.

RENAN LOPEZ DE AZUA

SCALE: 1" = 100'
100' 0 100'

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Rev. No. DATE:11-13-0-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

102-38,331

Designed by:
Dwn by: JOSE
Ckd by: JOSE

Dated: JULY 2002
D.O.FILE NO.

File name:
Reference files:
D096SRC00.DGN
D096SHD00.DGN
D096CHA00.DGN
D096PLAN.DGN

SAN JUAN HARBOR PUERTO RICO

PROJECT CONDITION SURVEY 30 THRU 56-FOOT PROJECT

BAR CHANNEL CUT-1 THRU ARMY TERMINAL TURNING BASIN, PUERTO NUEVO CHANNEL AND TURNING BASIN, GRAVING DOCK CHANNEL AND TURNING BASIN, SAN ANTONIO CHANNEL AND APPROACH, CRUISE SHIP BASINS AND ANCHORAGE AREAS
PLAN VIEW

DRAWING NO.

SHEET 1 OF 19

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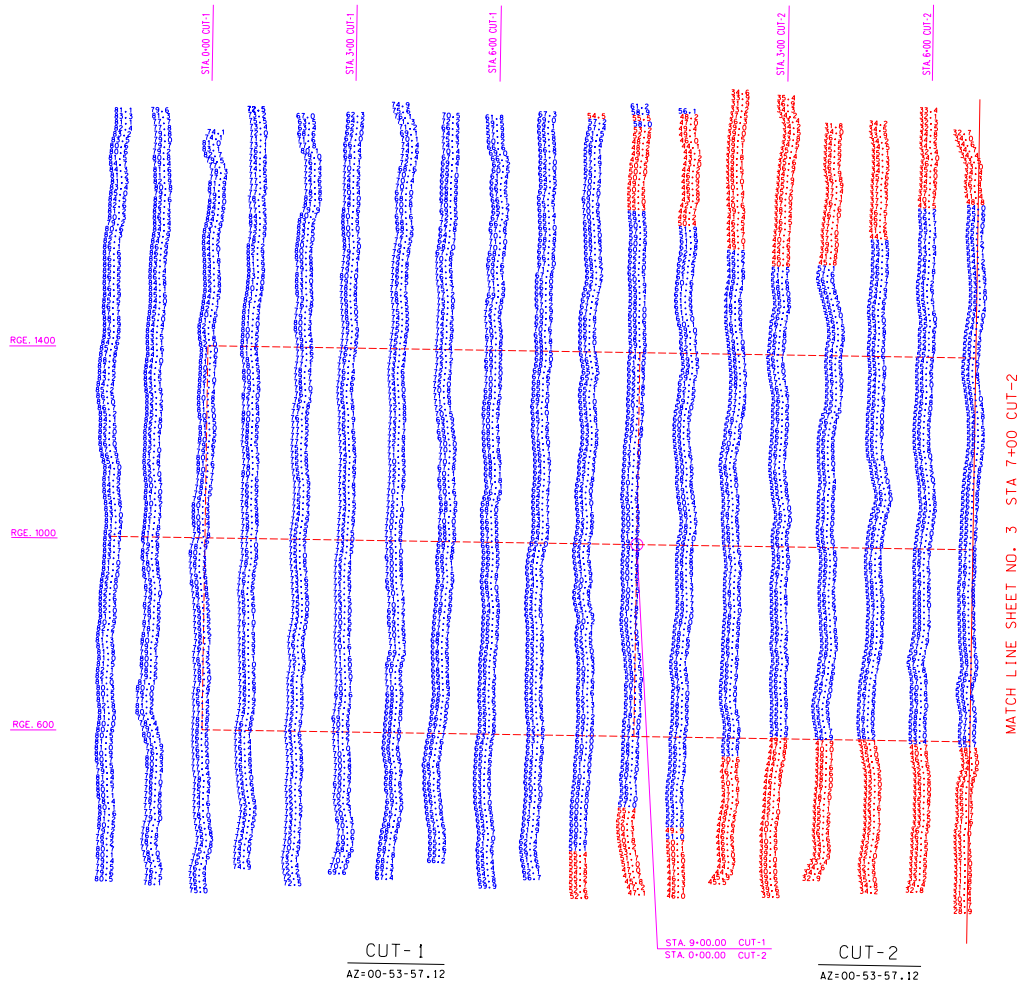

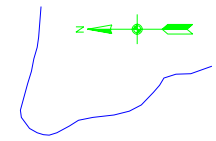

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SCALE: 1" = 100'
100' 0 100'

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Designed by:
Dwn by: MASR
Ckd by: JOEM
Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH002.DGN
Reference files: D096BROR.DGN D096SNOG.DGN D096CHAN.DGN D096PLAN.DGN

SAN JUAN HARBOR, PUERTO RICO
PROJECT CONDITION SURVEY
53 & 56-FOOT PROJECT
BAR CHANNEL CUT-1 & 2
PLAN VIEW

DRAWING NO.

SHEET 2 OF 19

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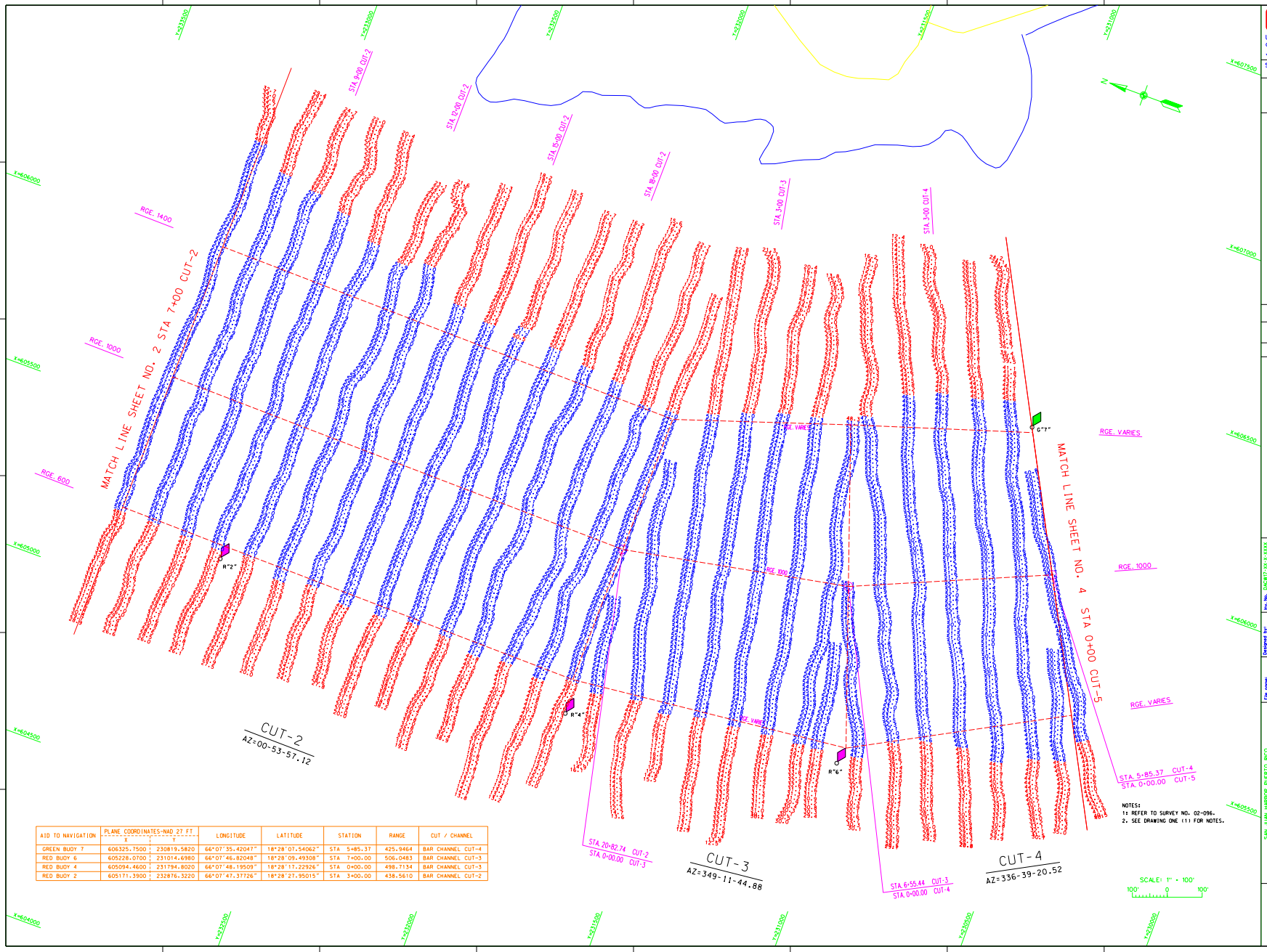
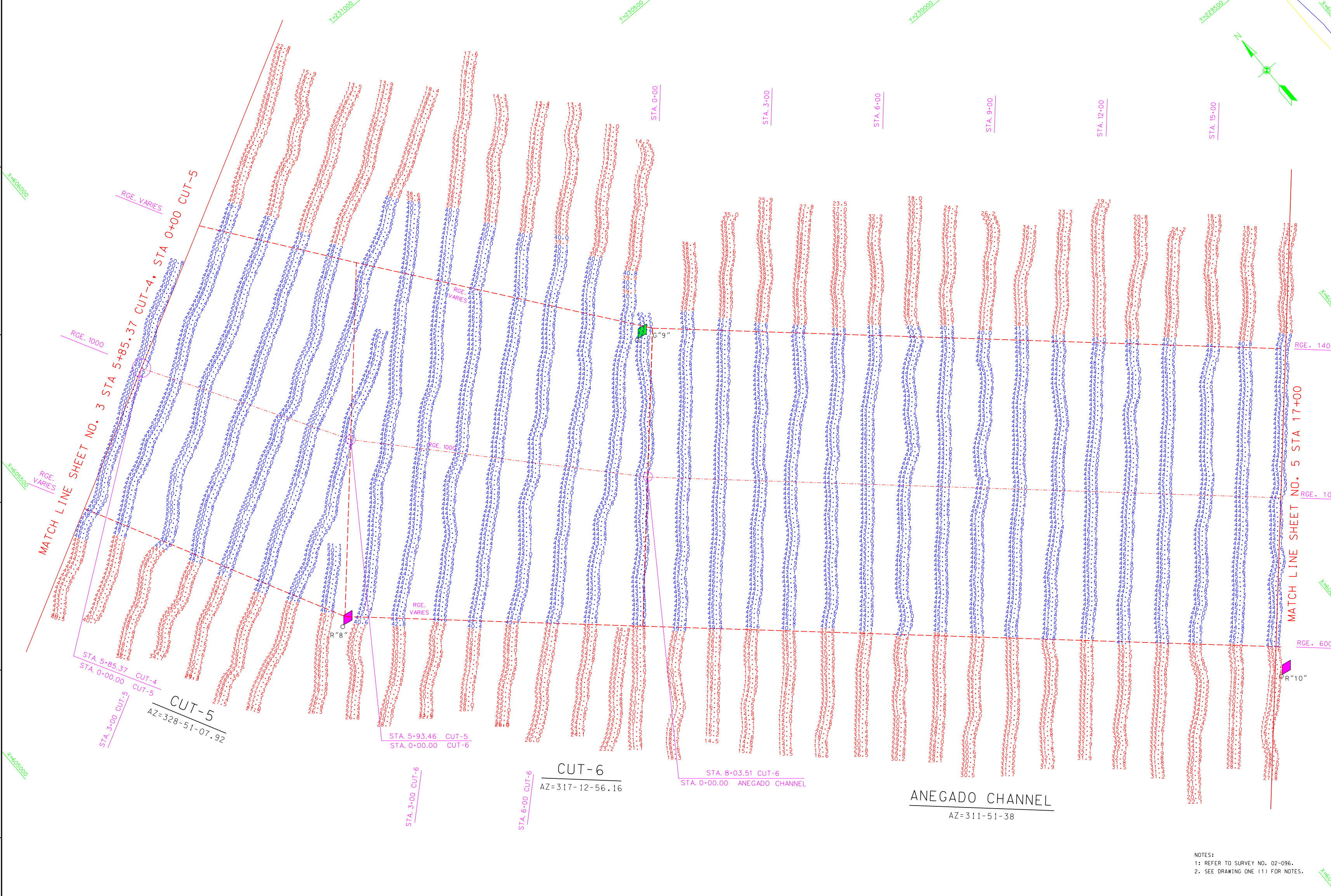


AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT. X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN BUOY 7	606325.7500	230819.5820	66°07'35.42047"	18°28'07.54062"	STA 5+85.37	425.9464	BAR CHANNEL CUT-4
RED BUOY 6	605228.0700	231014.6980	66°07'46.82048"	18°28'09.49308"	STA 7+00.00	506.0483	BAR CHANNEL CUT-3
RED BUOY 4	605094.4600	231794.8020	66°07'48.19509"	18°28'17.22926"	STA 0+00.00	498.7134	BAR CHANNEL CUT-3
RED BUOY 2	605171.3900	232876.3220	66°07'47.37726"	18°28'27.95015"	STA 3+00.00	438.5610	BAR CHANNEL CUT-2

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.



NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SCALE: 1" = 100'
100' 0 100'

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT X	PLANE COORDINATES-NAD 27 FT Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
RED BUOY 10	607759.6600	228020.0570	66°07'20.57353"	18°27'39.76216"	STA 17+00.00	478.9637	ANEGADO CHANNEL
GREEN BUOY 9	607015.4100	229822.1620	66'07'28.27334"	18°27'57.64073"	STA 12+00.00	361.1788	BAR CHANNEL CUT-5
RED BUOY 8	605915.9800	229741.1520	66°07'39.68811"	18°27'56.85588"	STA 6+00.00	500.7366	BAR CHANNEL CUT-5

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

RLDA R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Inv. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by:
Dwn by: MASR
Ckd by: JOEM

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH004.DGN
Reference files: D096BRDR.DGN D096SNDG.DGN D096CHAN.DGN D096PLAN.DGN

SAN JUAN HARBOR, PUERTO RICO
PROJECT CONDITION SURVEY
40, 42 & 48-FOOT PROJECT
BAR CHANNEL CUT-5 THRU ANEGADO CHANNEL
PLAN VIEW

DRAWING NO.

SHEET 4 OF 19

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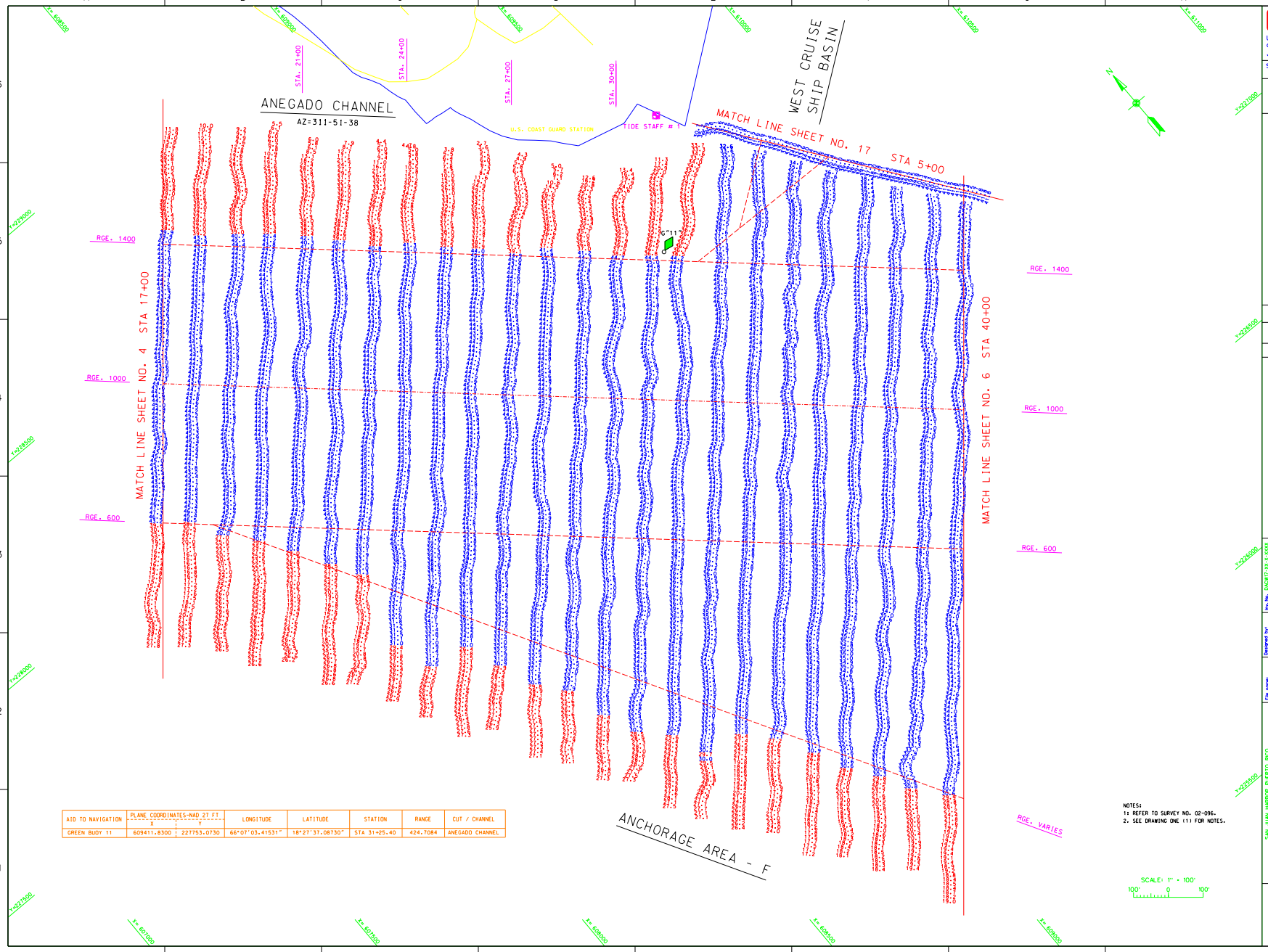

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN BUOY 11	609411.8300	227753.0730	66°07'03.41531"	18°27'37.08730"	STA 31+25.40	424.7084	ANEGADO CHANNEL

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

File No. D096\T-24-X-XXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOSE
Dwn by: JOSE
Ckd by: JOSE
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH005.DGN
Reference files: D096BGRID.DGN D096GRID.DGN D096CHAN.DGN D096PA_INLOD.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY
30 & 40-FOOT PROJECT

ANEGADO CHANNEL, ANCHORAGE AREA - F & WEST CRUISE SHIP BASIN

PLAN VIEW

DRAWING NO.

SHEET 5 OF 19

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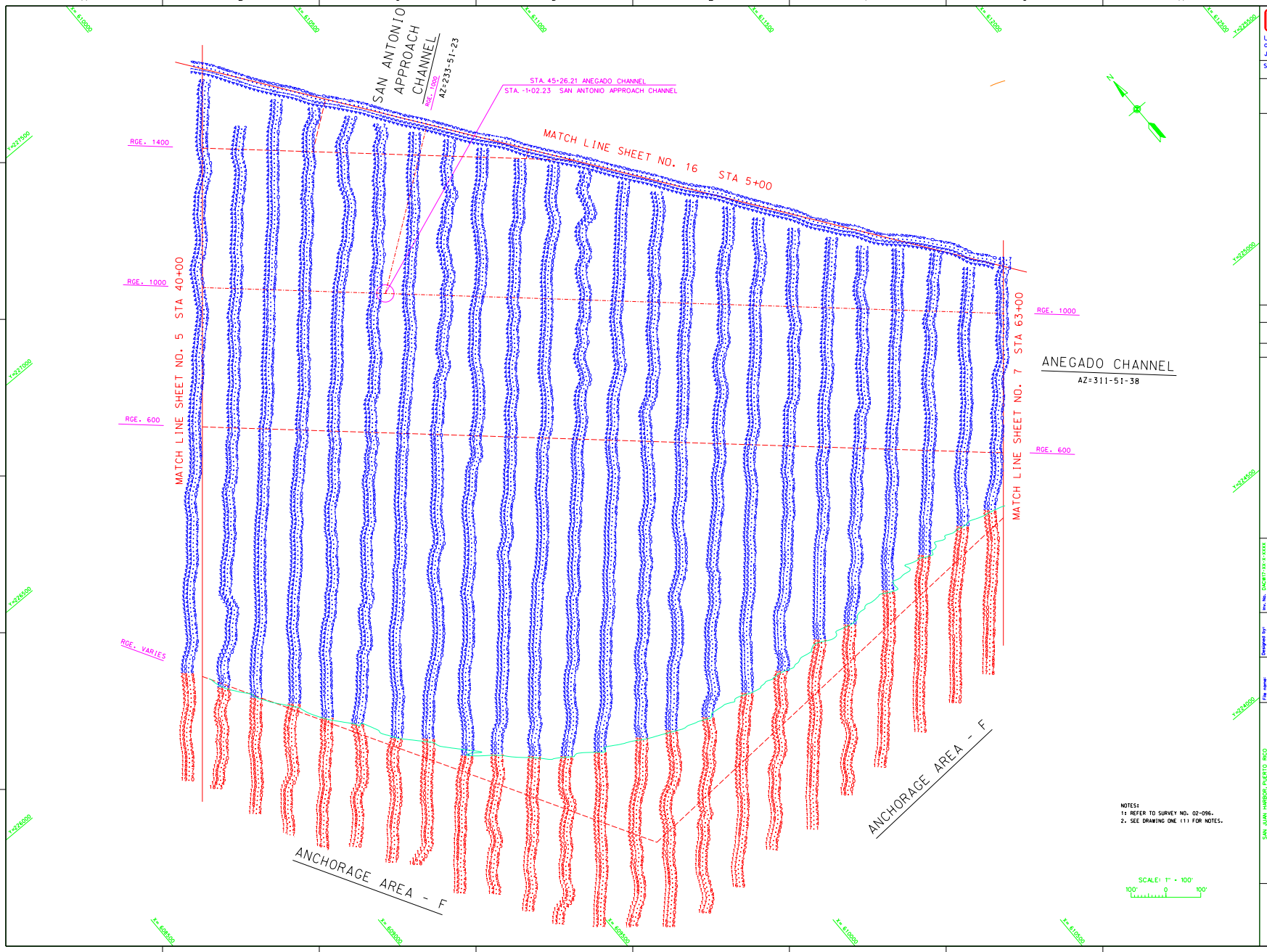

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Designed by:
Dwn by: MASR
Ckd by: JOEM
Dwn. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH-006.DGN
Reference files: D096BRDR.DGN D096SHDG.DGN D096CHAN.DGN D096PLAN.DGN D096CONTOURS.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY
30, 35 & 40-FOOT PROJECT

ANEGADO CHANNEL, ANCHORAGE AREA - F & SAN ANTONIO APPROACH CHANNEL
PLAN VIEW

DRAWING NO.

SHEET 6 OF 19

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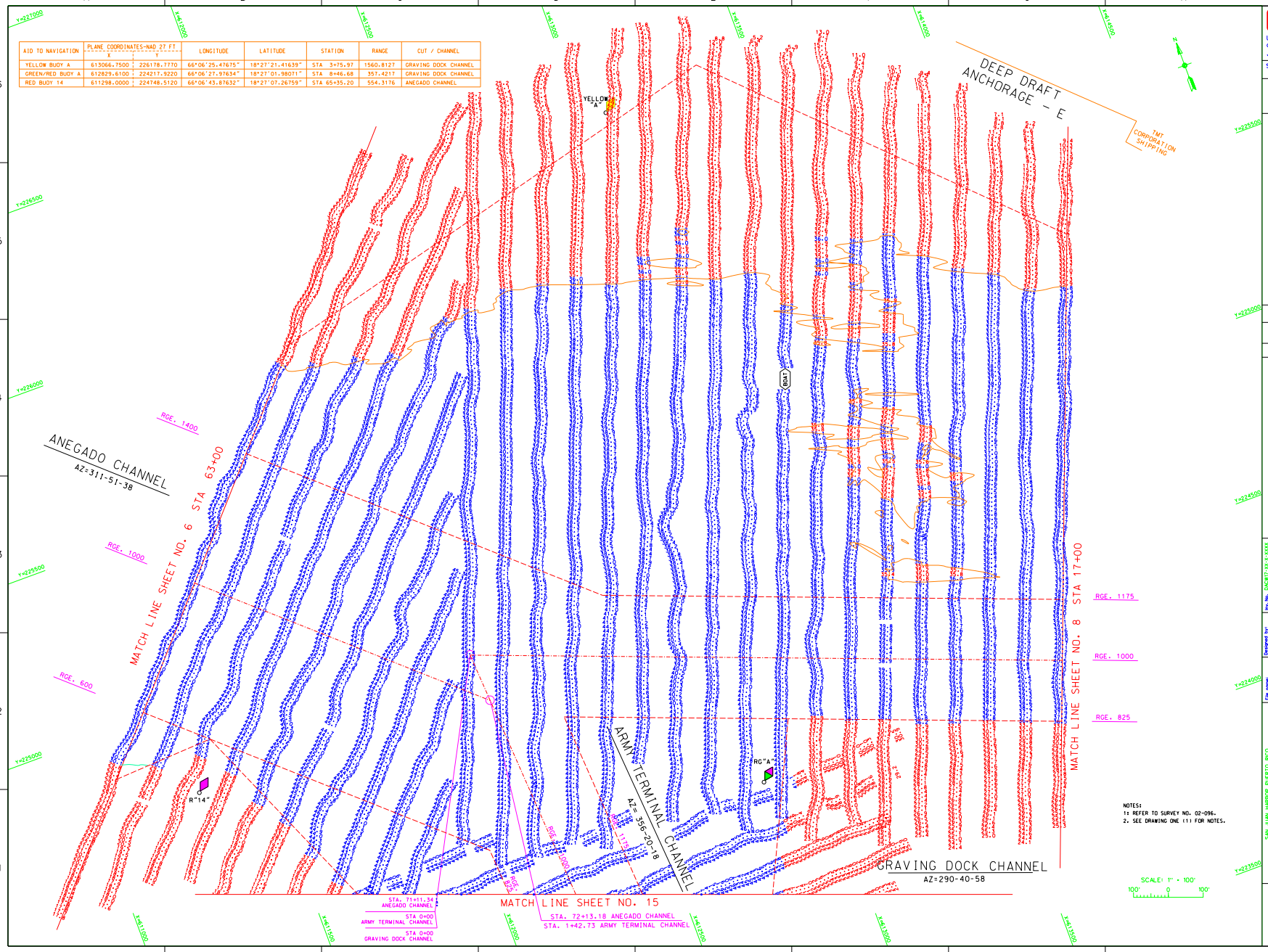
AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT		LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
	Y	X					
YELLOW BUOY A	613066.7500	226178.7770	66°06'25.47675"	18°27'21.41639"	STA 3+75.97	1560.8127	GRAVING DOCK CHANNEL
GREEN/RED BUOY A	612829.6100	224217.9220	66°06'27.97634"	18°27'01.98071"	STA 8+46.68	357.4217	GRAVING DOCK CHANNEL
RED BUOY 14	611298.0000	224748.5120	66°06'43.87632"	18°27'07.26759"	STA 65+35.20	554.3176	ANEGADO CHANNEL



NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Rev. No. DUGN17-24-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOSE
Dwn by: JOSE
Cut by: JOSE
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH007.DGN
Reference files: D096SH005.DGN D096SH006.DGN D096SH008.DGN D096SH009.DGN D096PLAN.DGN

SAN JUAN HARBOR PUERTO RICO
PROJECT CONDITION SURVEY
36 & 40-FOOT PROJECT
ANEGADO CHANNEL THROUGH GRAVING DOCK CHANNEL & DEEP DRAFT ANCHORAGE - E
PLAN VIEW

DRAWING NO.

SHEET 7 OF 19

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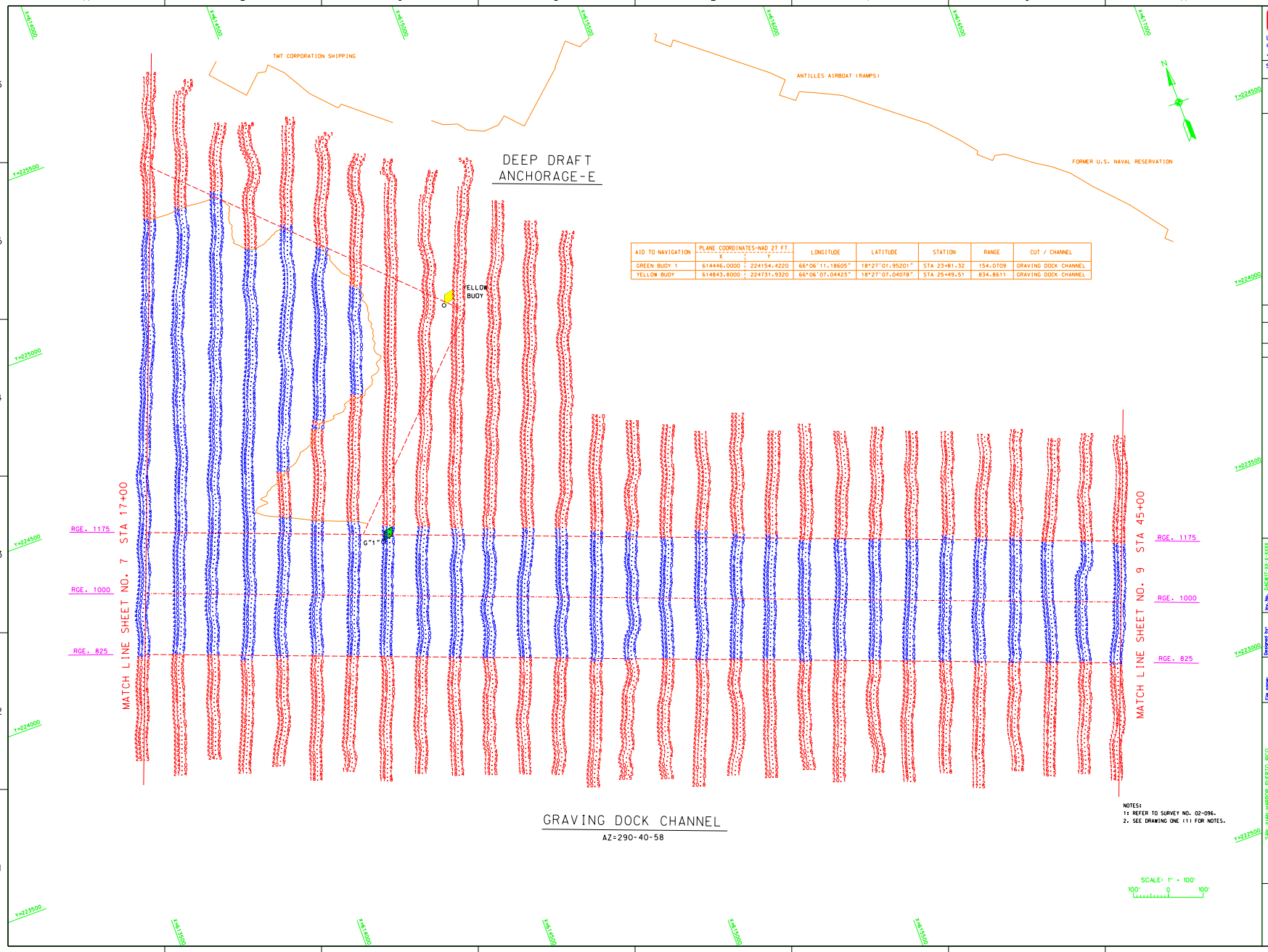


AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT		LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
	X	Y					
GREEN BUOY 1	614446.0000	224154.4220	66°06'11.18605"	18°27'01.95201"	STA 23+81.32	154.0709	GRAVING DOCK CHANNEL
YELLOW BUOY	614843.8000	224731.9320	66°06'07.04423"	18°27'07.04078"	STA 25+49.51	834.8611	GRAVING DOCK CHANNEL

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Fmt. No. D4D01-73-2-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: DGB/RLA
Dwn by: DGB/RLA
Cut by: DGB/RLA
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH008.DGN
Reference files: D096SB08.DGN D096SB09.DGN D096CH4A.DGN D096PA.INLDGN

SAN JUAN HARBOR PUERTO RICO

PROJECT CONDITION SURVEY 36-FOOT PROJECT

GRAVING DOCK CHANNEL & DEEP DRAFT ANCHORAGE - E

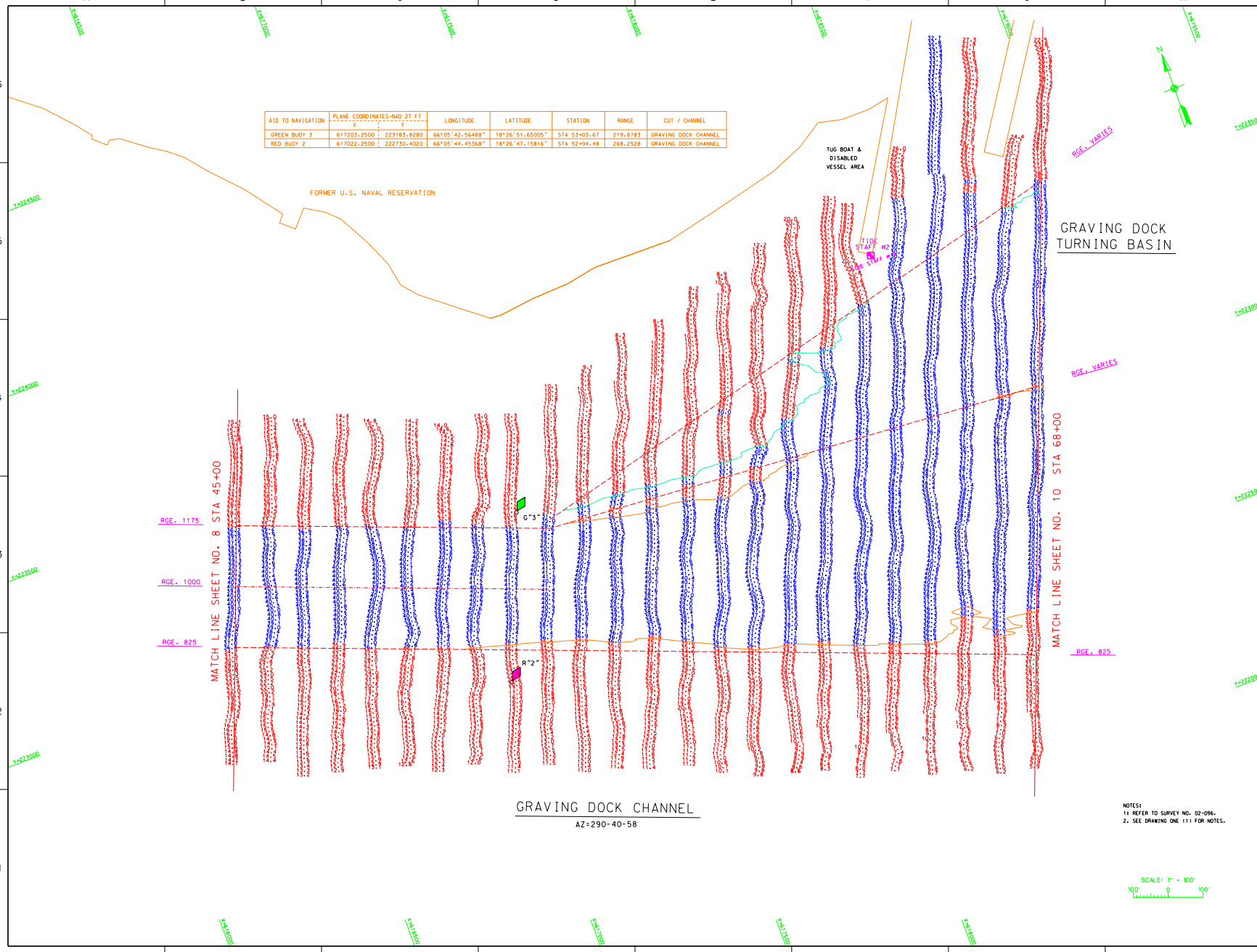
PLAN VIEW

DRAWING NO.

SHEET 8 OF 19

...\d096\Final\DGN\d096sh008.dgn 08/12/2002 10:05:27 AM

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT. X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN BUOY 3	617203.2500	223183.8280	66°05'42.56488"	18°26'51.65005"	STA 53+03.67	219.8783	GRAVING DOCK CHANNEL
RED BUOY 2	617022.2500	222730.4020	66°05'44.45368"	18°26'47.15816"	STA 52+94.48	268.2528	GRAVING DOCK CHANNEL



NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

File No. D096\17-24-X-XXXX
Design: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOHN
Dwn by: JOHN
Cut by: JOHN

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH009.DGN
Reference files: D096BGRID.DGN D096GRID.DGN D096CHAN.DGN D096PLAN.DGN

SAN JUAN HARBOR PUERTO RICO

PROJECT CONDITION SURVEY 30 & 36-FOOT PROJECT

GRAVING DOCK CHANNEL & TURNING BASIN

PLAN VIEW

DRAWING NO.

SHEET 9 OF 19

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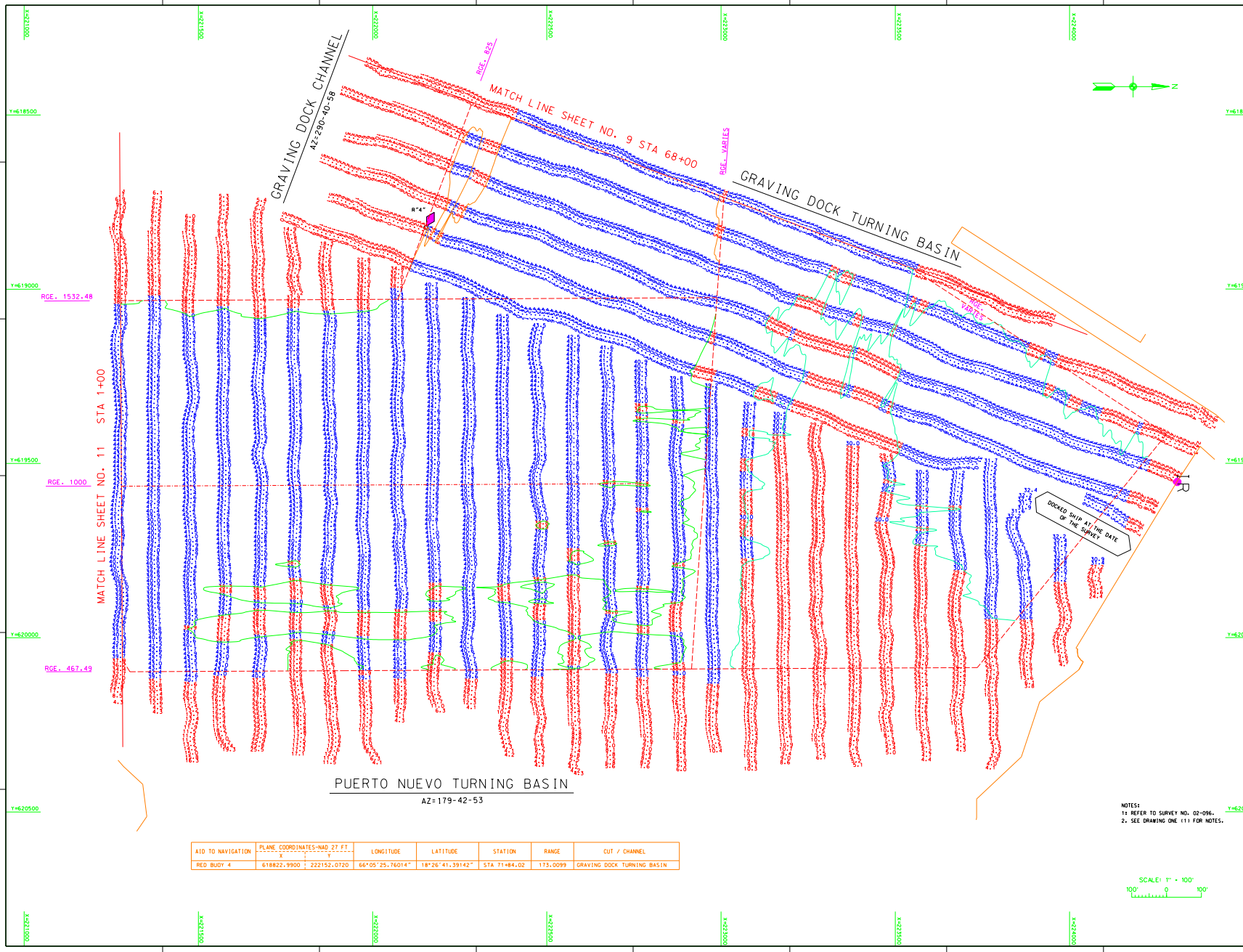

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT		LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
	X	Y					
RED BUOY 4	618822.9900	222152.0720	66°05'25.76014"	18°26'41.39142"	STA 71+84.02	173.0099	GRAVING DOCK TURNING BASIN

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SCALE: 1" = 100'
100' 0 100'

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Fmt. No. DA0017-29-V-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: DSR
Dwn by: DSR
Cut by: DSR
Chk by:

D.O.FILE NO. 102-38,331
Dated: JULY 2002

File name: D096SH010.DGN
Reference files: D096BGRID.DGN D096SH001.DGN D096SH003.DGN D096PLAN.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY 30, 36 & 39-FOOT PROJECT

PUERTO NUEVO TURNING BASIN, GRAVING DOCK CHANNEL AND TURNING BASIN

PLAN VIEW

DRAWING NO.

SHEET 10 OF 19

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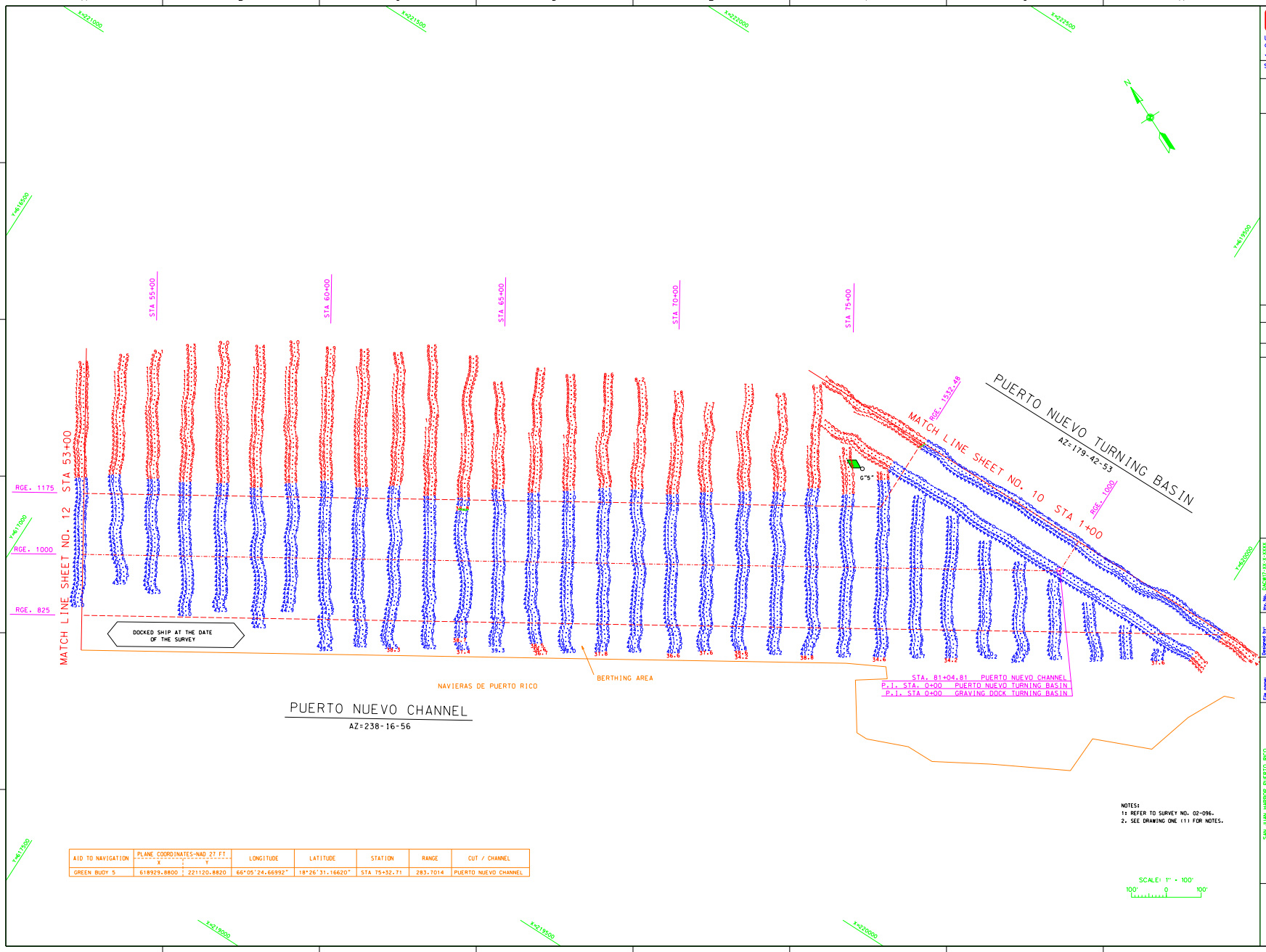

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT. X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN BUOY 5	618929.8800	221120.8820	66°05'24.66992"	18°26'31.16620"	STA 75+32.71	283.7014	PUERTO NUEVO CHANNEL

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R. LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Fmr. No. D96W1-39-X-XXXX
Contr. XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by
Dwn by
Cut by
Chkd by

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D96U3PNTL.DGN
Reference files: D96BGRID.DGN D96BGRID2.DGN D96BCHART.DGN D96BPLAN.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY 39-FOOT PROJECT

PUERTO NUEVO CHANNEL AND TURNING BASIN

PLAN VIEW

DRAWING NO.

SHEET 11 OF 19

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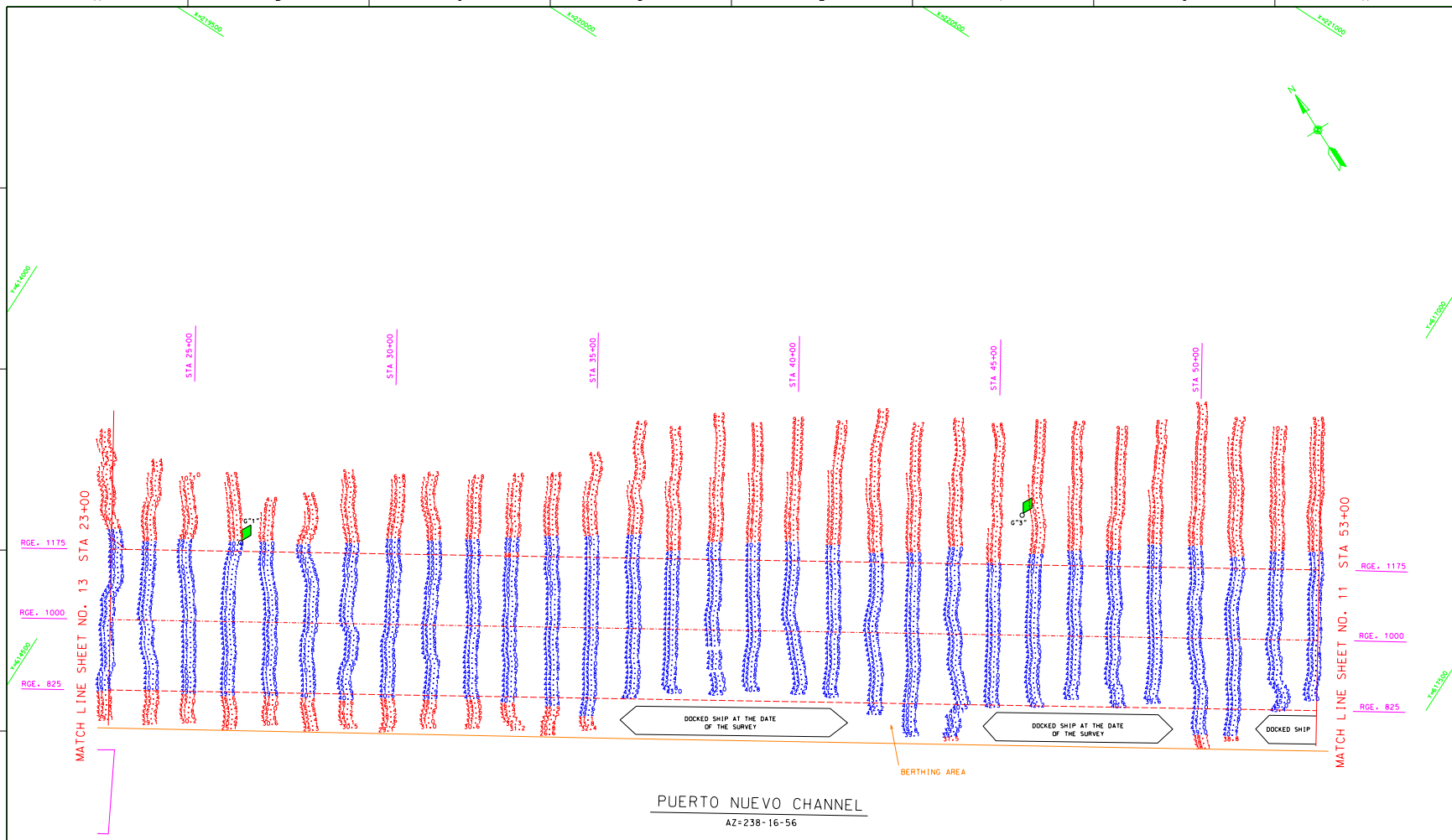

PUERTO NUEVO CHANNEL

AZ=238-16-56

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN 3	616393.8200	219570.4720	66°05'51.04155"	18°26'15.84202"	STA 45+60.31	298.1458	PUERTO NUEVO CHANNEL
GREEN 1	614797.2100	218465.0830	66°06'07.64593"	18°26'04.91178"	STA 26+21.01	197.2429	PUERTO NUEVO CHANNEL

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SCALE: 1" = 100'
100' 0 100'

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Rev. No. D96R1-24-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOSE
Cut by: JOSE
Dwn by: JOSE
Date: JULY 2002
D.O.FILE NO. 102-38,331

File name: D96SH012.DGN
Reference files: D096SR08.DGN D096SR09.DGN D096CH4.DGN D096PA.INLDGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY 39-FOOT PROJECT

PUERTO NUEVO CHANNEL

PLAN VIEW

DRAWING NO.

SHEET 12 OF 19

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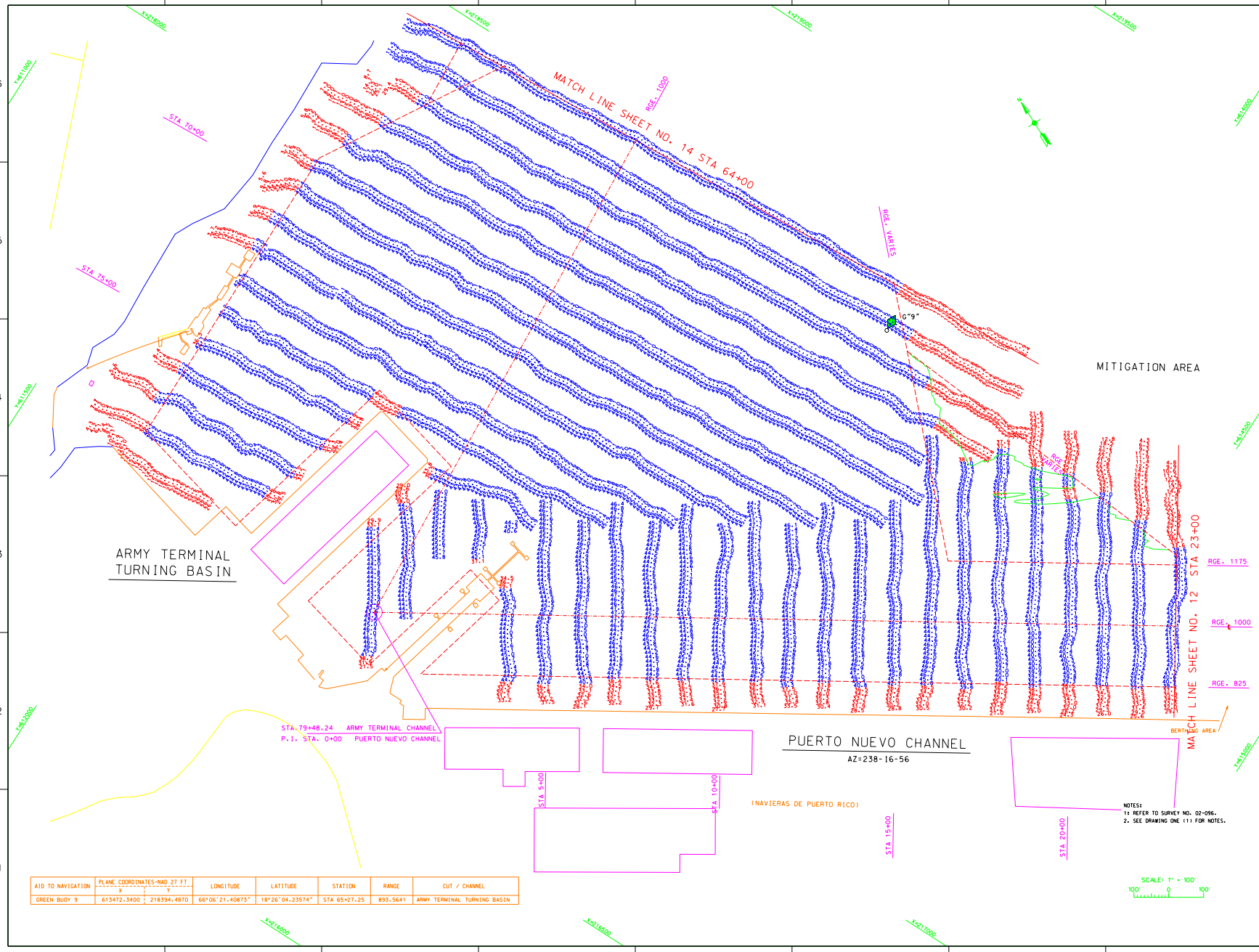

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT		LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
	X	Y					
GREEN BUOY 9	613472.3400	218394.4870	66°06'21.40873"	18°26'04.23574"	STA 65+27.25	893.5641	ARMY TERMINAL TURNING BASIN

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Fmt. No. DA2011-73-X-XXXX
Datum: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by
Dwn by
Ckd by
Cut by
Ckd by

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH013.DGN
Reference files: D096SR08.DGN D096SR09.DGN D096CH4.DGN D096PA.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY 39 & 40-FOOT PROJECT

PUERTO NUEVO CHANNEL AND ARMY TERMINAL TURNING BASIN

PLAN VIEW

DRAWING NO.

SHEET 13 OF 19

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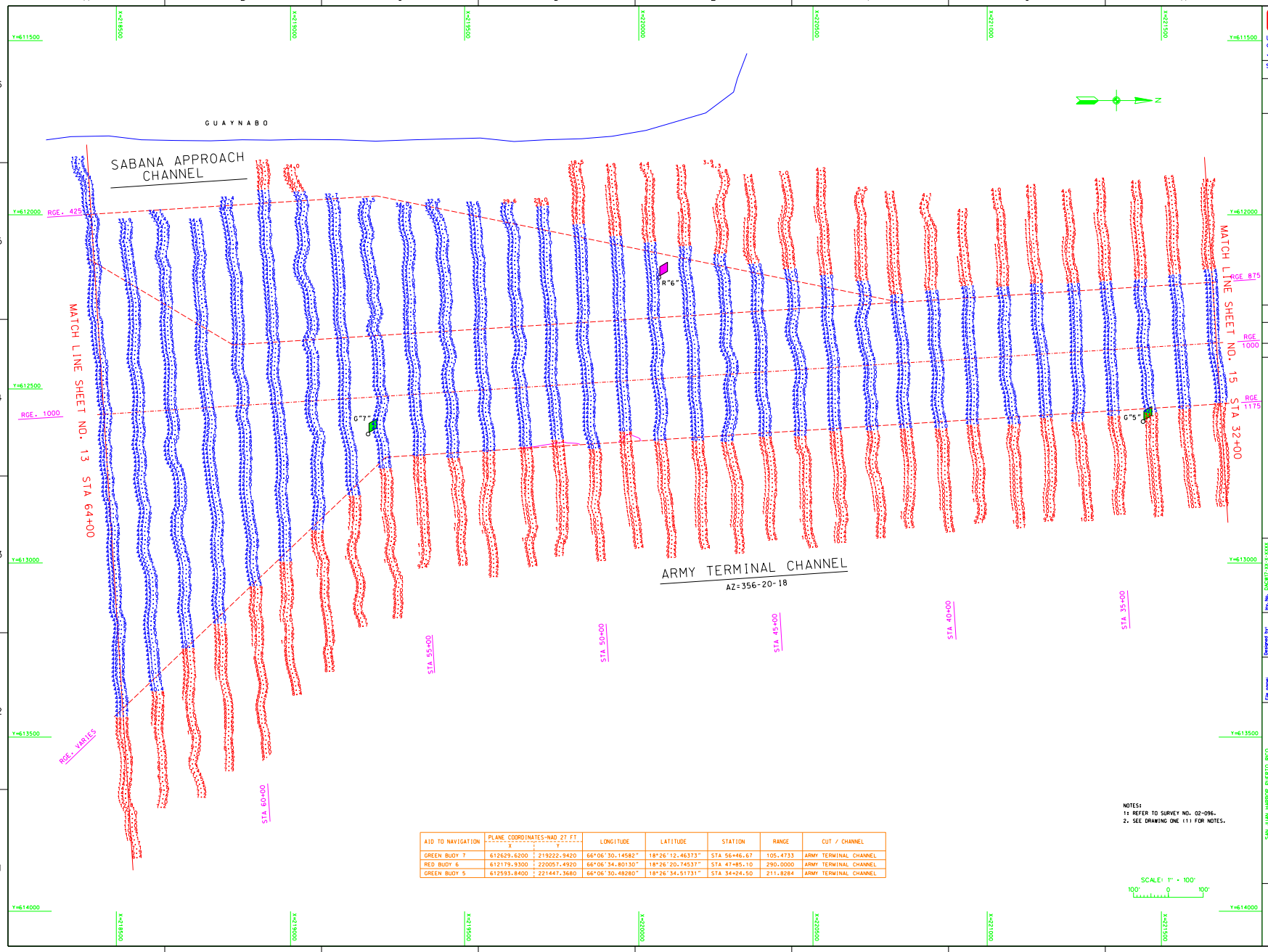

AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT. X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
GREEN BUOY 7	612629.6200	219222.9420	66°06'30.14582"	18°26'12.46373"	STA 56+46.67	105.4733	ARMY TERMINAL CHANNEL
RED BUOY 6	612179.9300	220057.4920	66°06'34.80130"	18°26'20.74537"	STA 47+85.10	290.0000	ARMY TERMINAL CHANNEL
GREEN BUOY 5	612593.8400	221447.3680	66°06'30.48280"	18°26'34.51731"	STA 34+24.50	211.8284	ARMY TERMINAL CHANNEL

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

SCALE: 1" = 100'
100' 0 100'

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Dwg. No. D096H1-J-01-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOSE A. LOPEZ
Dwn by: JOSE A. LOPEZ
Ckd by: JOSE A. LOPEZ

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH014.DGN
Reference files: D096BGRID.DGN D096GRID.DGN D096CHAN.DGN D096PA_INLOG.DGN

SAN JUAN HARBOR PUERTO RICO

PROJECT CONDITION SURVEY 32 & 40-FOOT PROJECT

ARMY TERMINAL CHANNEL & SABANA APPROACH CHANNEL

PLAN VIEW

DRAWING NO.

SHEET 14 OF 19

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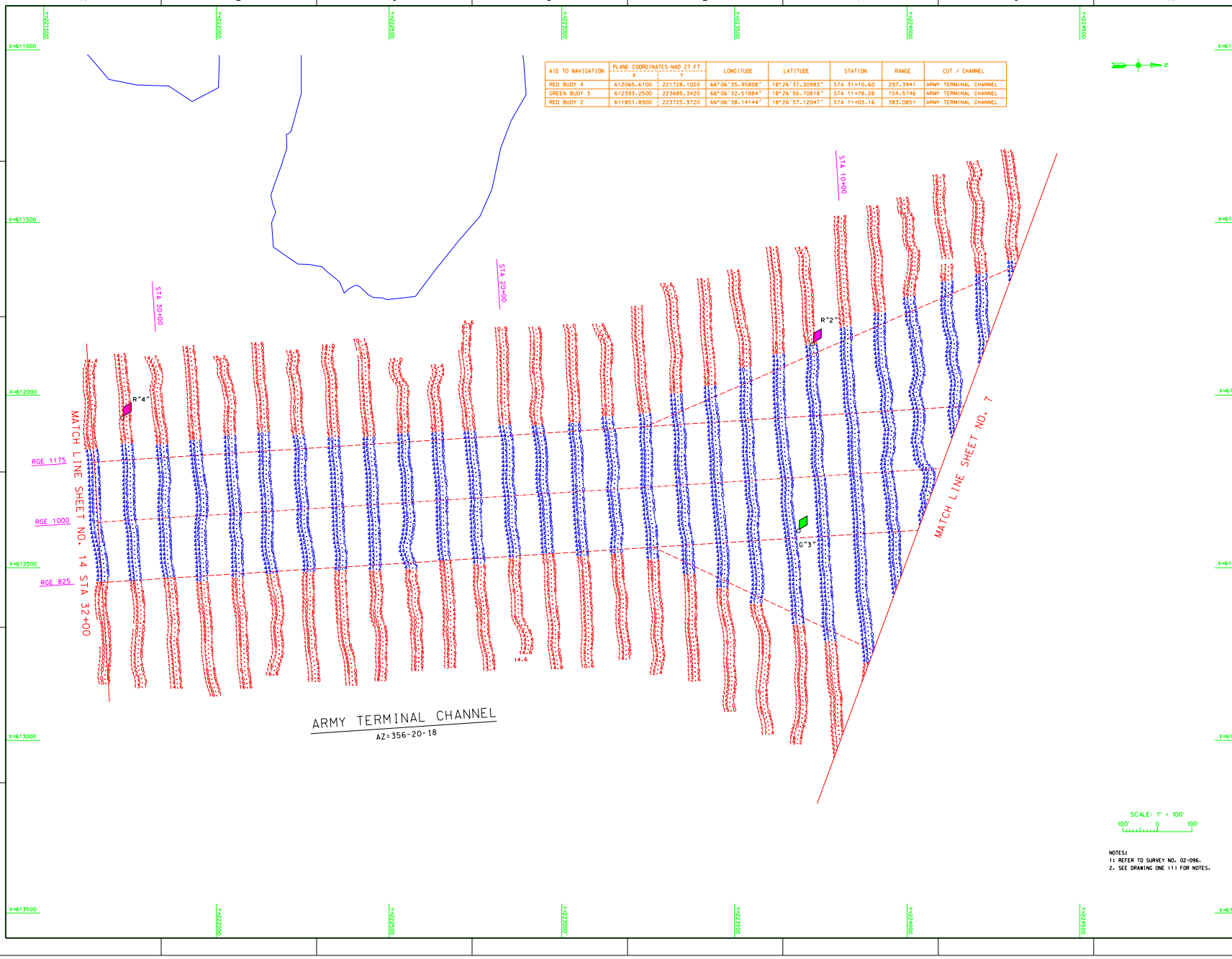
AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
RED BUOY 4	612065.6100	221728.1020	66°06'35.95808"	18°26'37.30983"	STA 31+10.60	297.3941	ARMY TERMINAL CHANNEL
GREEN BUOY 3	612393.2500	223685.3420	66°06'32.51884"	18°26'56.70818"	STA 11+78.28	154.5746	ARMY TERMINAL CHANNEL
RED BUOY 2	611851.8900	223725.9720	66°06'38.14144"	18°26'57.12047"	STA 11+03.16	383.0851	ARMY TERMINAL CHANNEL



NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Designed by:
Dwn by: MASR
Ckd by: JOEM
Dwn. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name:
Reference files:
D096BRDR.DGN
D096SNDG.DGN
D096CHLD.DGN
D096PLAN.DGN

SAN JUAN HARBOR, PUERTO RICO
PROJECT CONDITION SURVEY
40-FOOT PROJECT
ARMY TERMINAL CHANNEL
PLAN VIEW

DRAWING NO.

SHEET 15 OF 19

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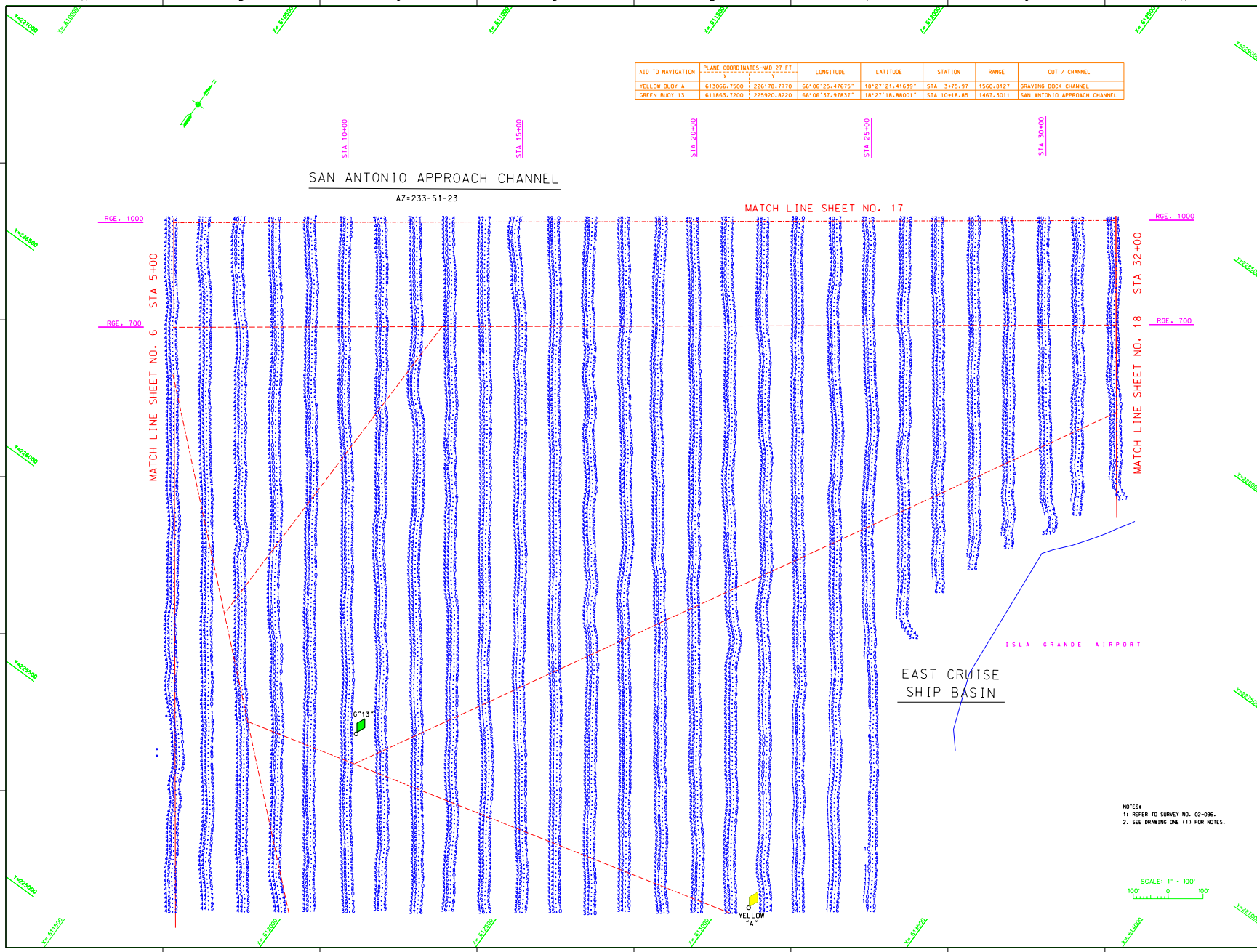
AID TO NAVIGATION	PLANE COORDINATES-NAD 27 FT X	Y	LONGITUDE	LATITUDE	STATION	RANGE	CUT / CHANNEL
YELLOW BUOY A	613066.7500	226178.7770	66°06'25.47675"	18°27'21.41639"	STA 3+75.97	1560.8127	GRAVING DOCK CHANNEL
GREEN BUOY 13	611863.7200	225920.8220	66°06'37.97837"	18°27'18.88001"	STA 10+18.85	1467.3011	SAN ANTONIO APPROACH CHANNEL



NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR 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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Designed by:
Dwn by: MASR
Ckd by: JOEW
Dwn. No. DACW17-XX-X-XXXX
Dated: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN
Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH016.DGN
Reference files: D096BRDR.DGN D096SNDG.DGN D096CHAN.DGN D096PLAN.DGN

SAN JUAN HARBOR, PUERTO RICO
PROJECT CONDITION SURVEY
30 THRU 56-FOOT PROJECT
SAN ANTONIO APPROACH CHANNEL & EAST CRUISE SHIP BASIN
PLAN VIEW

DRAWING NO.

SHEET 16 OF 19

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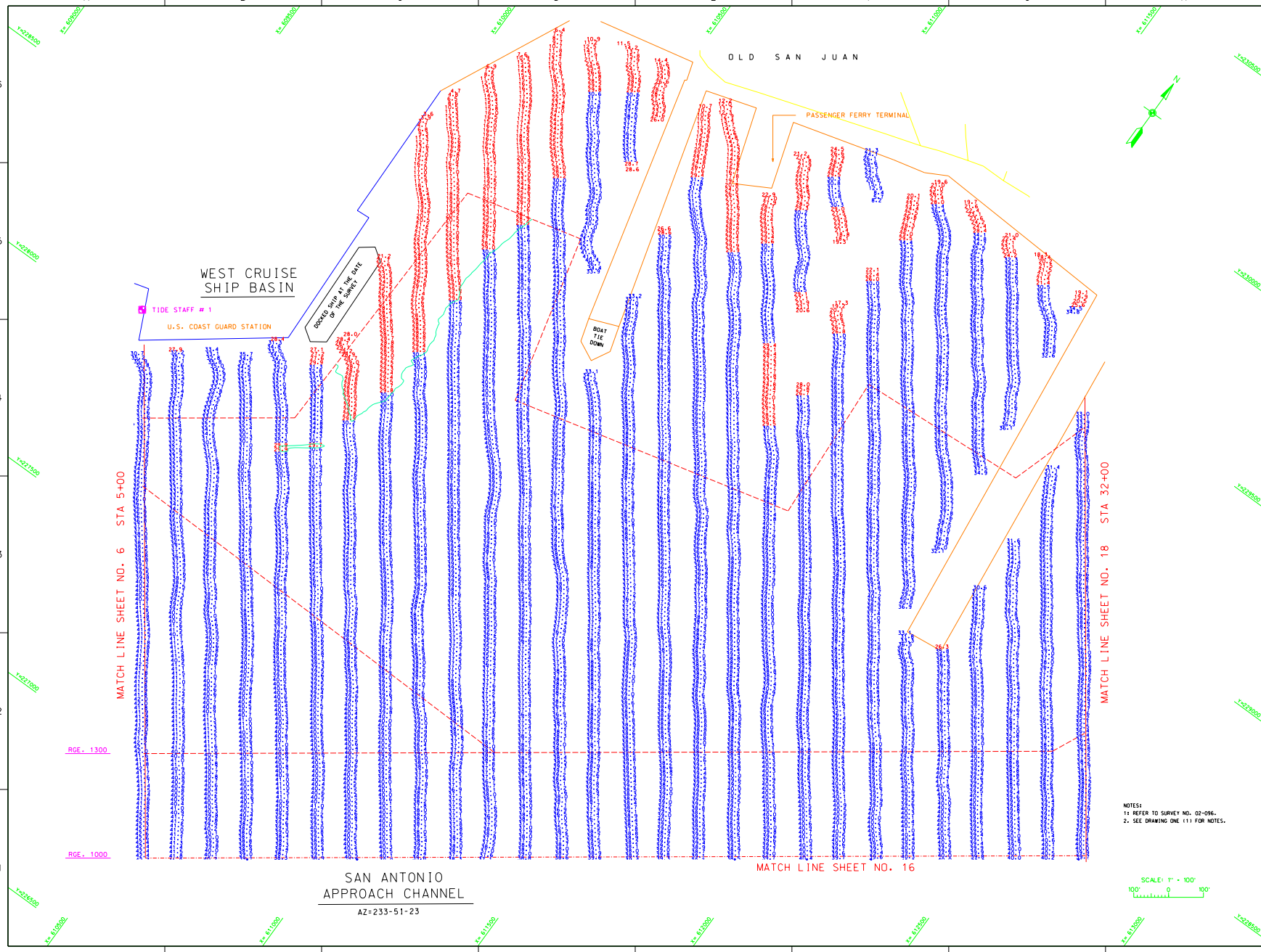

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

Fmt. No. D0301-73-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: JOSE
Dwn by: JOSE
Chk by: JOSE

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D0301H017.DGN
Reference files: D0301B08.DGN D0301C08.DGN D0301D08.DGN D0301H.DGN

SAN JUAN HARBOR PUERTO RICO

PROJECT CONDITION SURVEY 30 THRU 56-FOOT PROJECT

SAN ANTONIO APPROACH CHANNEL & WEST CRUISE SHIP BASIN
PLAN VIEW

DRAWING NO.

SHEET 17 OF 19

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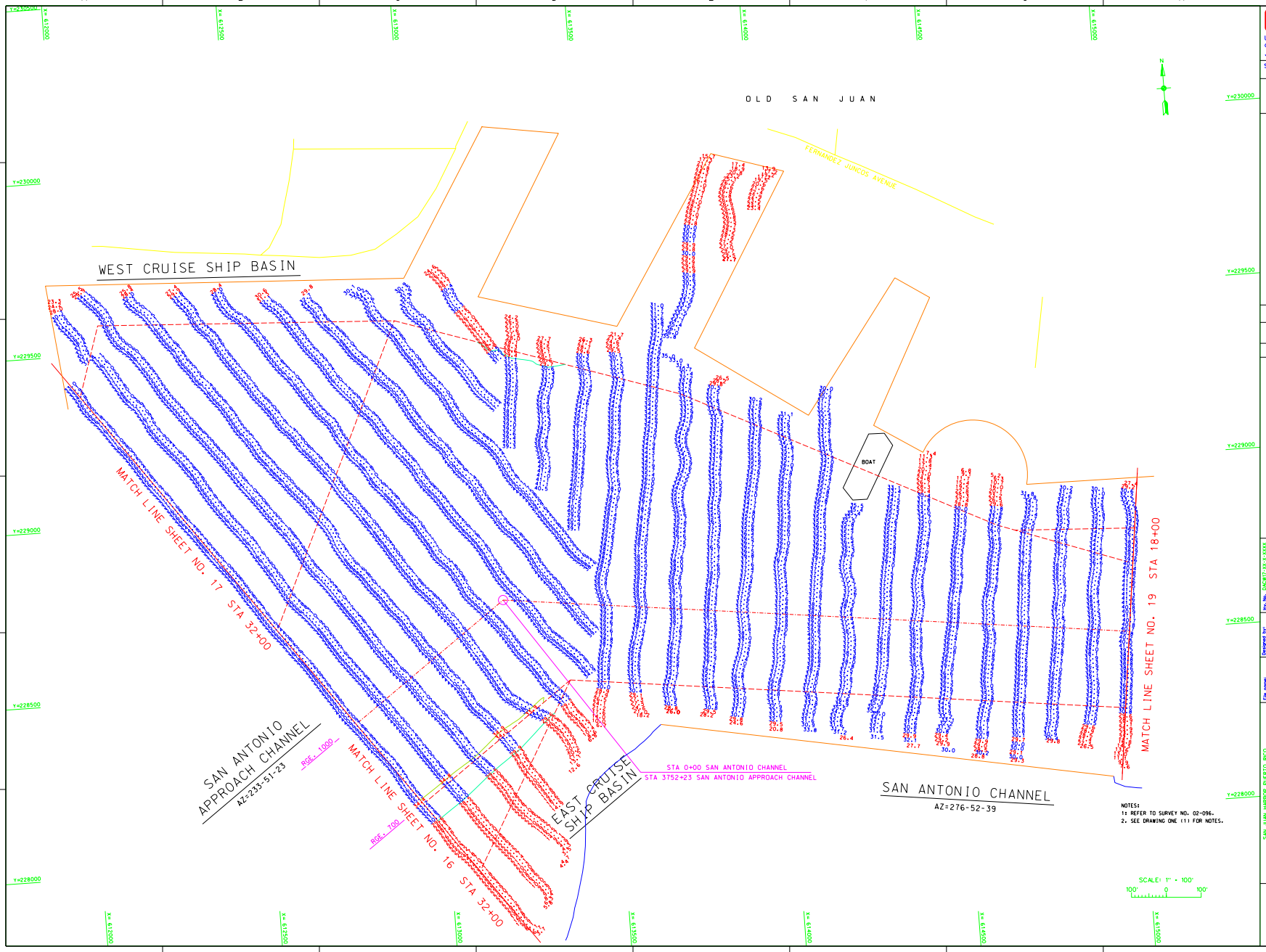

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

File No. D096T-24-X-XXXX
Contr. XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by
Dwn by
Chkd by
Cut by
Chkd by

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH018.DGN
Reference files: D096SB018.DGN D096SG018.DGN D096CH018.DGN D096PA018.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY
30 & 35-FOOT PROJECT

SAN ANTONIO APPROACH CHANNEL, SAN ANTONIO CHANNEL & EAST CRUISE SHIP BASIN
PLAN VIEW

DRAWING NO.

SHEET 18 OF 19

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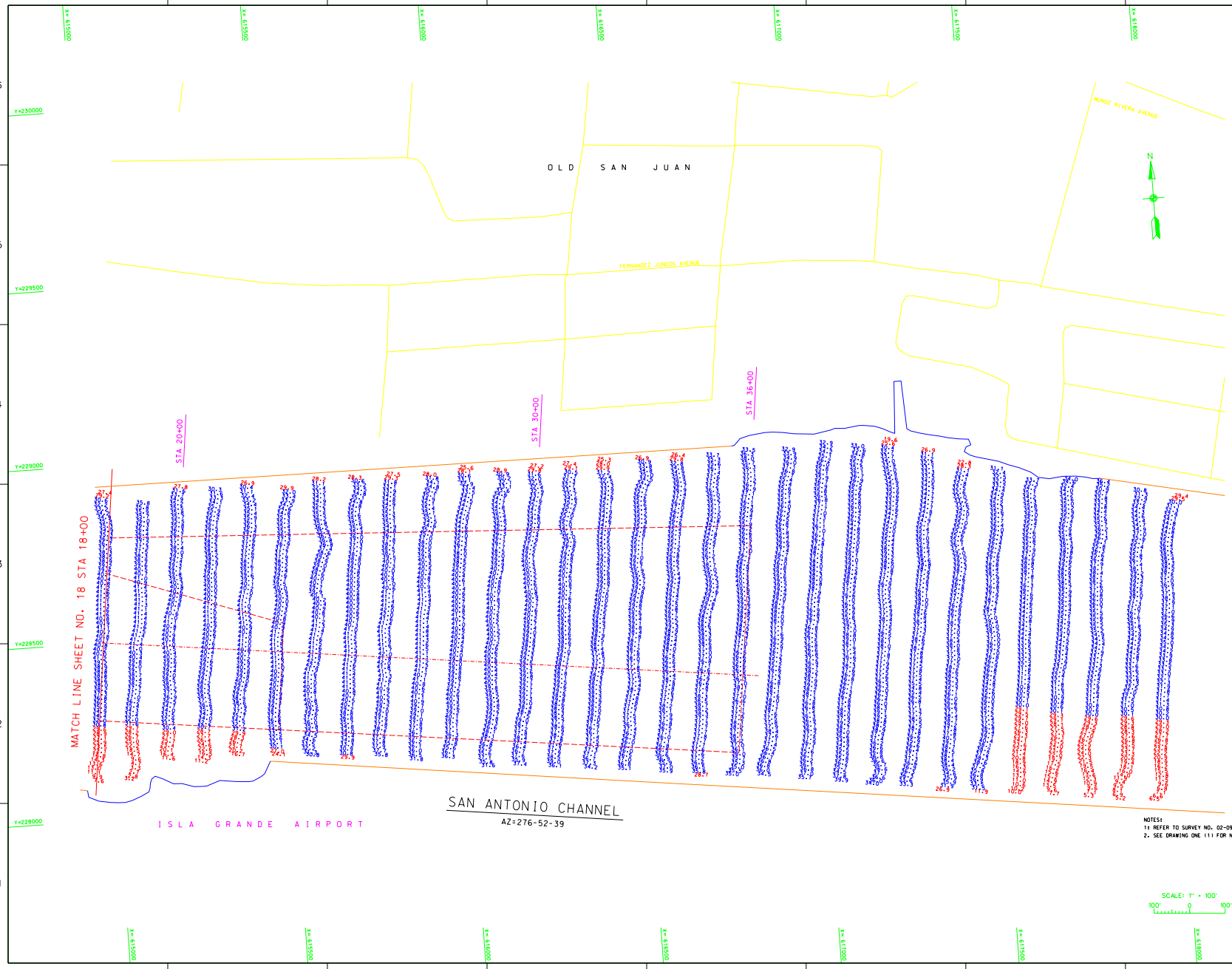

NOTES:
1: REFER TO SURVEY NO. 02-096.
2. SEE DRAWING ONE (1) FOR NOTES.

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

R.LOPEZ DE AZUA & ASSOCIATES
SAN JUAN, PUERTO RICO

File No. D096H17-24-X-XXXX
Contr. XX XXX XXXX
Scale: AS SHOWN
Plot date: JULY 10, 2002
Plot scale: AS SHOWN

Designed by: DSR
Dwn by: DSR
Ckd by: DSR

Dated: JULY 2002
D.O.FILE NO. 102-38,331

File name: D096SH19.DGN
Reference files: D096SR08.DGN D096SR09.DGN D096CH04.DGN D096PL04.DGN

SAN JUAN HARBOR, PUERTO RICO

PROJECT CONDITION SURVEY
30-FOOT PROJECT

SAN ANTONIO CHANNEL

PLAN VIEW

DRAWING NO.

SHEET 19 OF 19

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