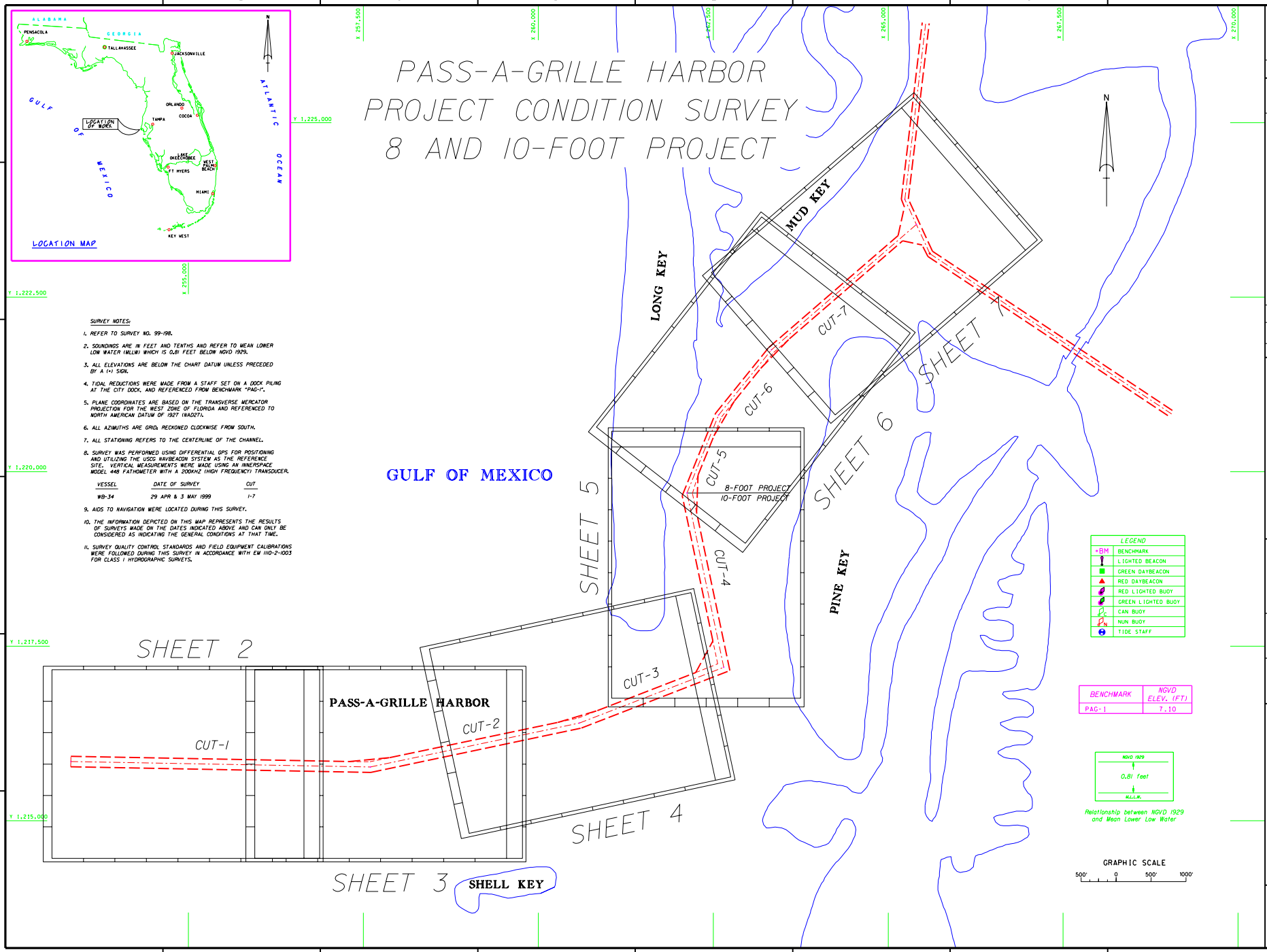
PASS-A-GRILLE HARBOR
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT



SURVEY NOTES:

1. REFER TO SURVEY NO. 99-198.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 0.81 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 DOCK PILING AT THE CITY DOCK, AND REFERENCED FROM BENCHMARK "PAG-1".
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27).
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 AN INNERSPACE MODEL 448 FATHOMETER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.

VESSEL	DATE OF SURVEY	CUT
WB-34	29 APR & 3 MAY 1999	1-7

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.
11. SURVEY QUALITY CONTROL STANDARDS AND FIELD EQUIPMENT CALIBRATIONS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH EM 1110-2-1003 FOR CLASS I HYDROGRAPHIC SURVEYS.

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 center: XX X XXXX
Plot scale: XX:X

D.O.FILE NO. 57-37,834

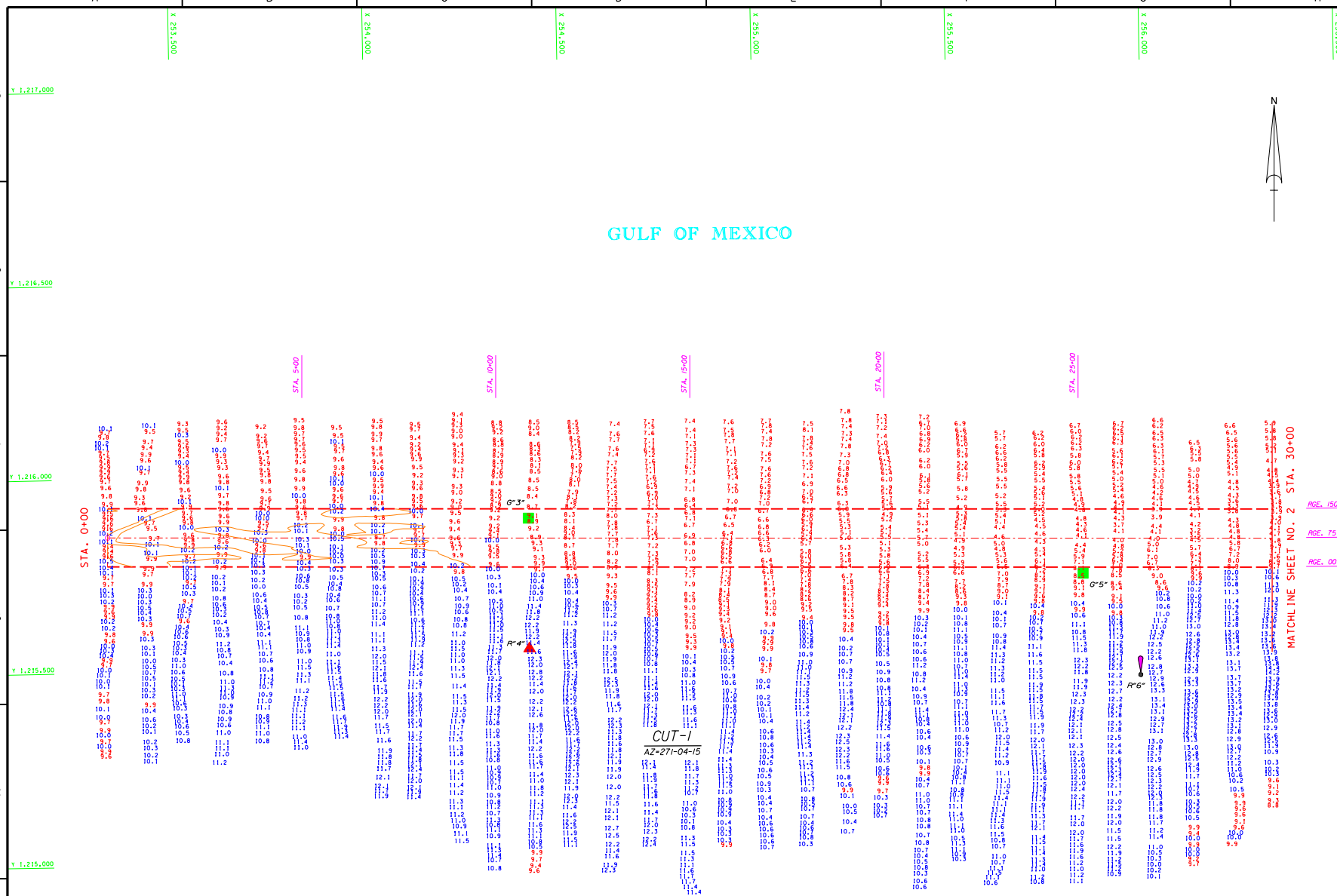
Designed by: WRD
Dwn by: JRW
Ckd by: JRW
Dated: MAY 1999

File name: ASSBSH1.DGN
Reference files: BASEMAP.DGN PASSCH01.DGN PAG_TOPO.DGN NEWFLMAP.DGN ASSBKDX.DGN

PASS-A-GRILLE HARBOR
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
COVER SHEET AND INDEX PLAN

DRAWING NO.
1 / 8

SHEET 1 OF 8



AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
DBN-3 (5/99)	254,402	1,215,876	27°40'36.16"	82°45'31.72"
DBN-4 (5/99)	254,399	1,215,539	27°40'32.82"	82°45'31.74"
DBN-5 (5/99)	255,829	1,215,708	27°40'34.58"	82°45'15.85"
LT-6 (5/99)	255,972	1,215,443	27°40'31.96"	82°45'14.24"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 99-198.
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 Number: XXXX
Plot scale: XX:X

Designed by: WHS
Dwn by: CDC
Ckd by: JMW

Dated: MAY 1999

D.O.FILE NO. 57-37.834

File name: 198SH02.DGN
Reference files: 198SH01.DGN
FASCSCH.DGN
ASBMAN.DGN
ASBCTL00.DGN
CORL.DGN

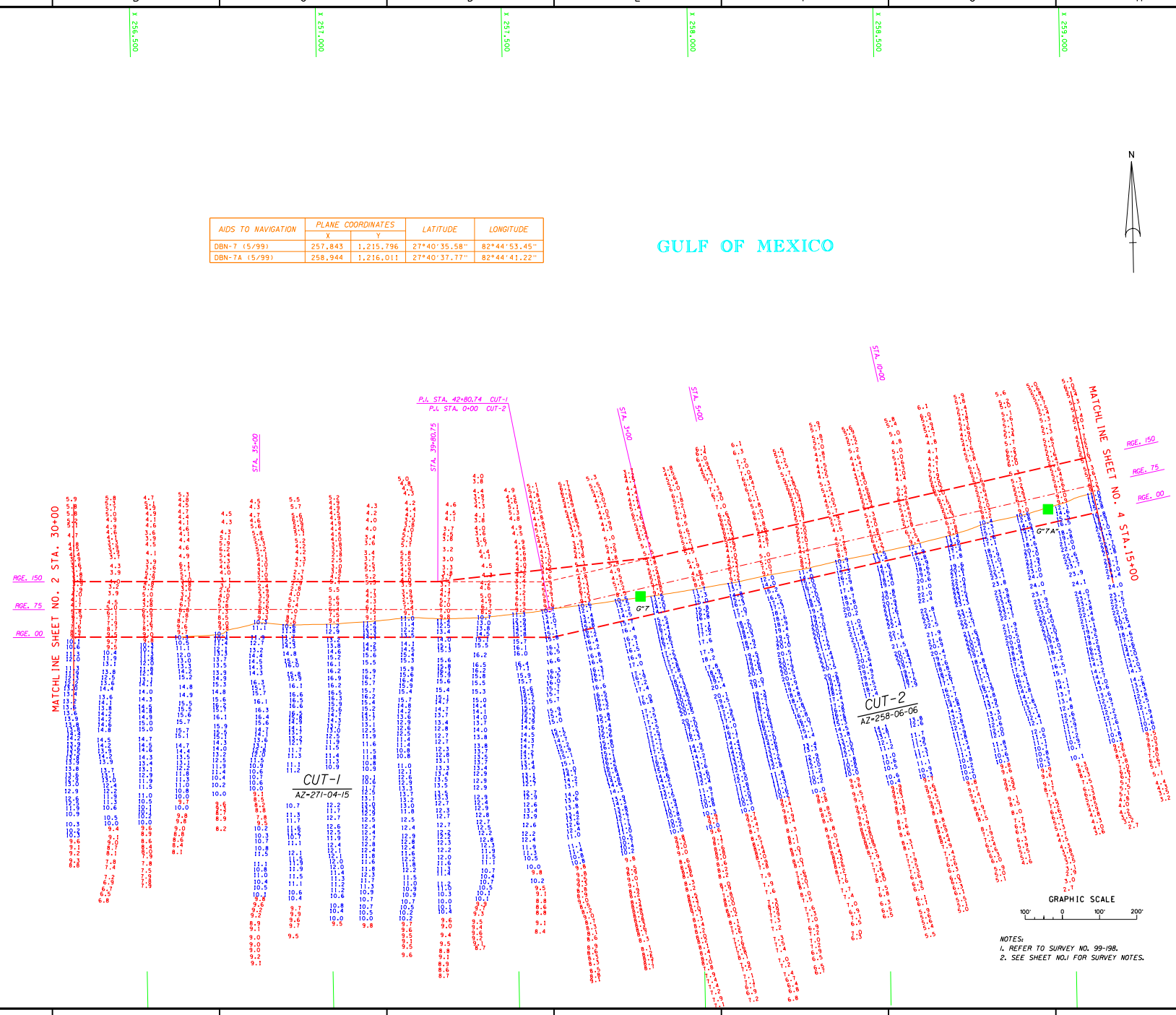
PASS-A-GRILLE PASS
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 0+00 THRU STA. 30+00 CUT-1
PLAN

DRAWING NO.
2 / 8

SHEET 2 OF 8

...\a198_sh02.dgn Jul. 06, 2000 14:06:59

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-7 (5/99)	257,843	1,215,796	27°40'35.58"	82°44'53.45"
DBN-7A (5/99)	258,944	1,216,011	27°40'37.77"	82°44'41.22"



NOTES:
1. REFER TO SURVEY NO. 99-198.
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: X X XXX XXXX
Scale: AS SHOWN
Sheet Number XXX
Plot Scale: XXX

Designed by: JDC
Dwn by: JDC
Ckd by: JMW
Dated: MAY 1999

D.O.FILE NO. 57-37,834

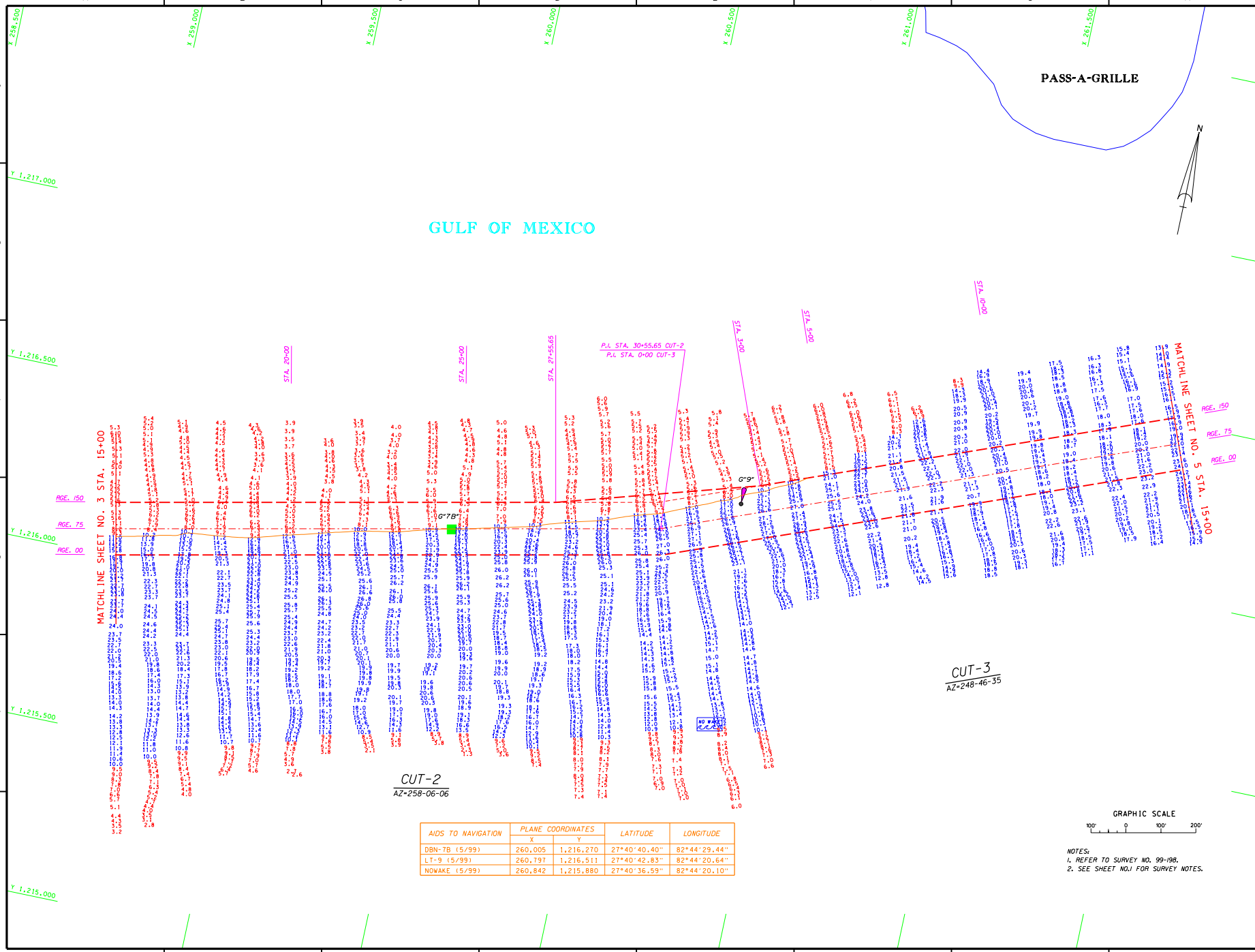
File name: A198SH03.DGN
Reference files:
A198BASE.DGN
A198CHCH.DGN
A198NAV.DGN
A198CT1.DGN
A198CT2.DGN
CON_SITE.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 30+00 THRU STA. 15+00 CUT-2
PLAN

DRAWING NO.
3 / 8

SHEET 3 OF 8

...\a198_sh03.dgn Jul. 06, 2000 14:06:04



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-7B (5/99)	260,005	1,216,270	27°40'40.40"	82°44'29.44"
LT-9 (5/99)	260,797	1,216,511	27°40'42.83"	82°44'20.64"
NOWAKE (5/99)	260,842	1,215,880	27°40'36.59"	82°44'20.10"

NOTES:
1. REFER TO SURVEY NO. 99-198.
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

Jn. No. 0A3977-XX-X-XXXX
Date: XX XXX XXXX
Scale: AS SHOWN
Plot date: xx xx xxxx
Plot scale: XX:X

Designed by: RTG
Dwn by: CDR
Ckd by: RTG

Date: MAY 1999
D.O. FILE NO. 57-37-834

File name: A198SH4.DGN
Reference files: BSCP98.DGN, PASSACH.DGN, PAS_TOPO.DGN, CONL30.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 15+00 CUT-2 THRU STA. 15+00 CUT-3
PLAN

DRAWING NO.
4 / 8

SHEET 4 OF 8

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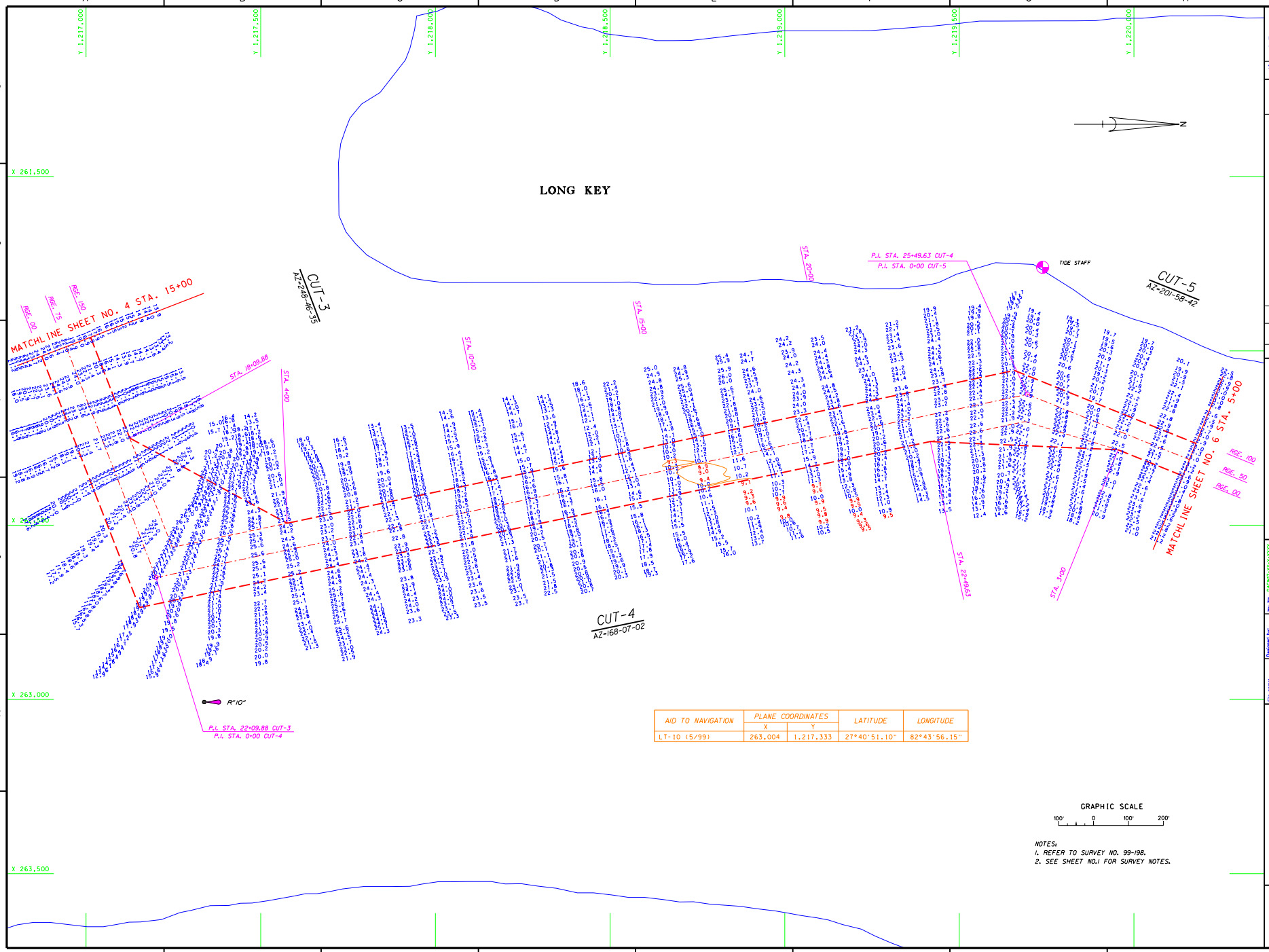


AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-10 (5/99)	263,004	1,217,333	27°40'51.10"	82°43'56.15"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 99-198.
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: YY XXX XXXX
Scale: AS SHOWN
Plot number: XXXX
Plot scale: XX:X

D.O.FILE NO. 57-37,834

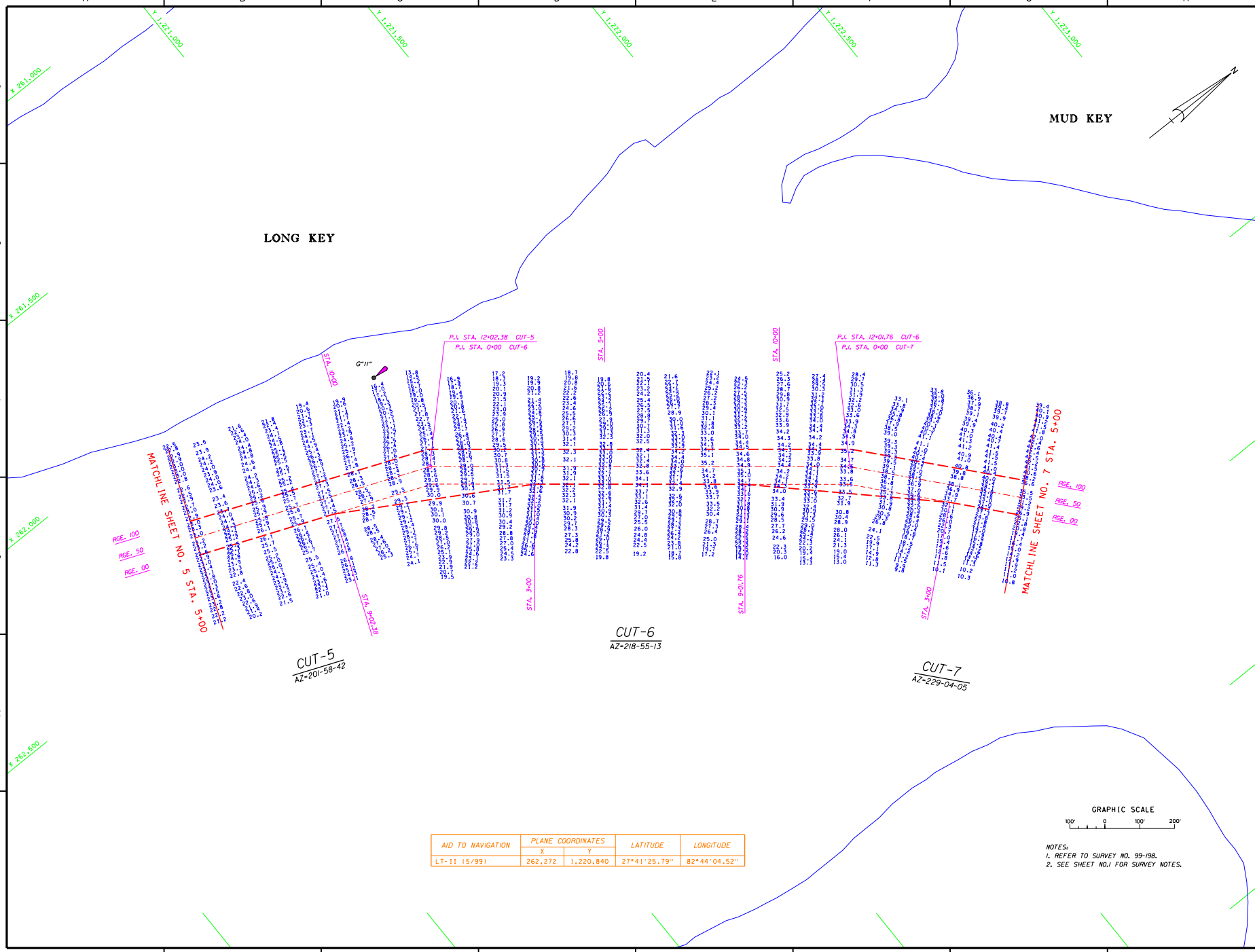
Designed by: WRD
Dwn by: CDC
Ckd by: JMW
Dated: MAY 1999

File name: 198SH05.DGN
Reference files: 198SH01.DGN PASSACKOLDON PACL_TOPO.DGN PASSACKOLDON ABSECT1.DGN ABSECT2.DGN ABSECT3.DGN CON_ID.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 15+00 CUT-3 THRU STA. 5+00 CUT-5
PLAN

DRAWING NO.
5 / 8
SHEET 5 OF 8

...\a198_sh05.dgn Jul. 06, 2000 14:04:14



AID TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-11 (5/99)	262,272	1,220,840	27°41'25.79"	82°44'04.52"

NOTES:
1. REFER TO SURVEY NO. 99-198.
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: X X XXX XXXX
Scale: AS SHOWN
Plot number: X X XXXX
Plot scale: XX.X

D.O.FILE NO. 57-37,834

Designed by: WRD
Dwn by: JDC
Ckd by: JRM
Dated: MAY 1999

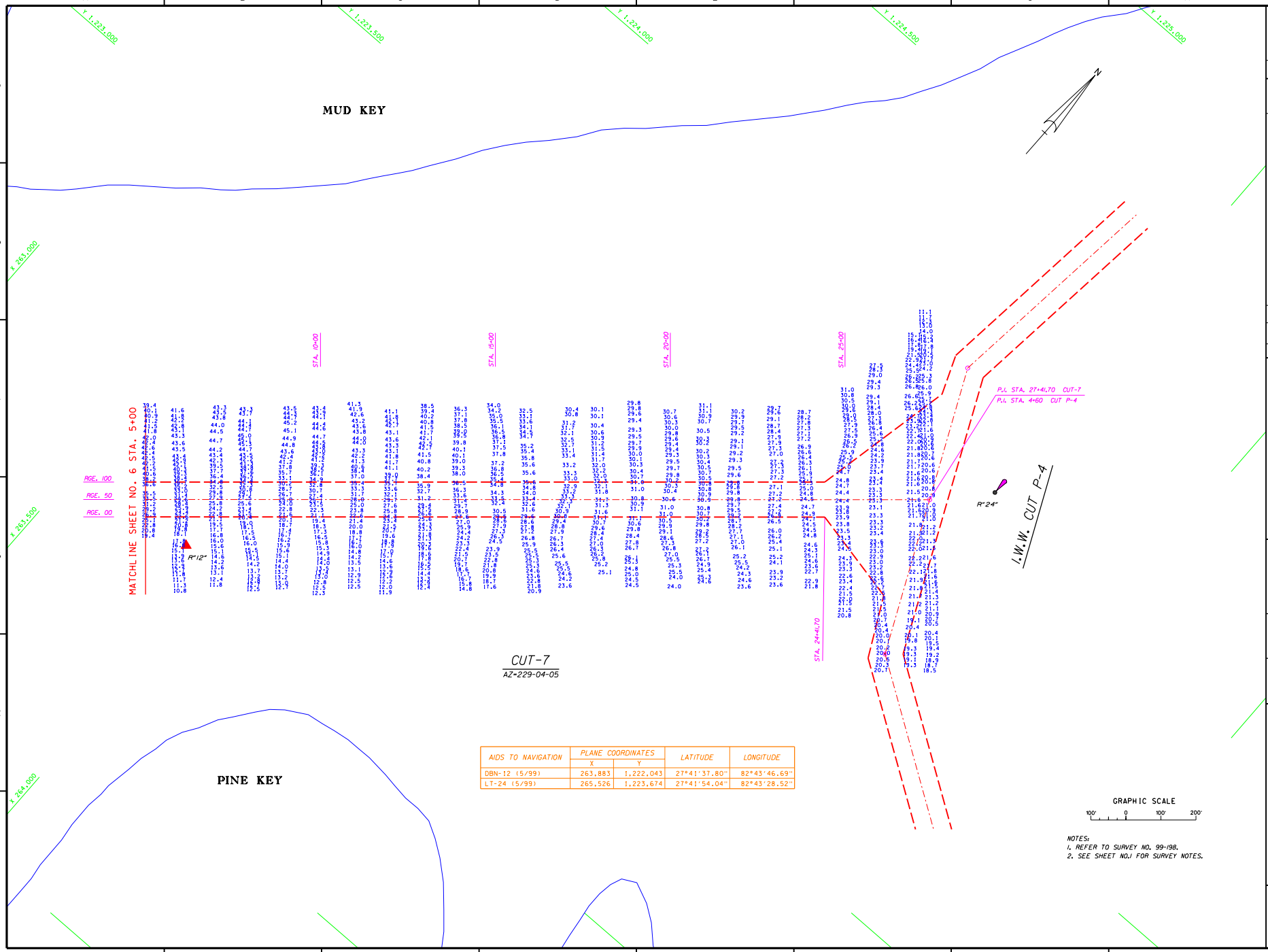
File name: A198SH06.DGN
Reference files: BGSURVEY.DGN
FASSCH.DGN
FAC_TOPO.DGN
A198CT5.DGN
A198CT6.DGN
A198CT7.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 5+00 CUT-5 THRU STA. 5+00 CUT-7
PLAN

DRAWING NO.
6 / 8

SHEET 6 OF 8

...\a198_sh06.dgn Jul. 06, 2000 14:03:32



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-12 (5/99)	263,883	1,222,043	27°41'37.80"	82°43'46.69"
LT-24 (5/99)	265,526	1,223,674	27°41'54.04"	82°43'28.52"

NOTES:
1. REFER TO SURVEY NO. 99-198.
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: GCK
Ckd by: WRM

Dated: MAY 1999
D.O.FILE NO. 57-37,834

File name: A198SH7.DGN
Reference files: BRDR98.DGN PASSAGCH.DGN PAG_TOPO.DGN A198CT7.DGN A198NAV.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
STA. 5+00 THRU STA. 27+41.70 CUT-7
PLAN

DRAWING NO.
7 / 8

SHEET 7 OF 8

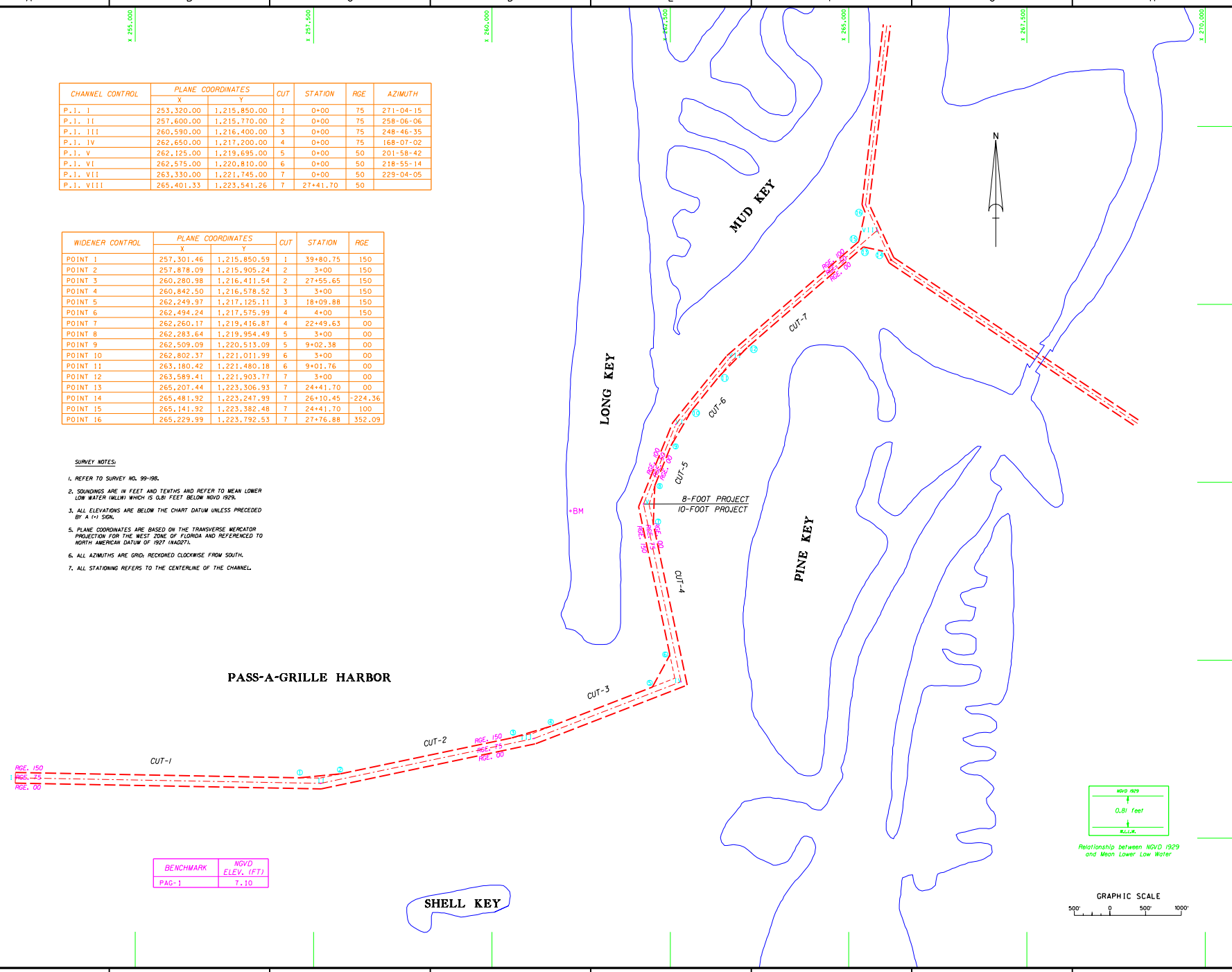
...\a198_sh07.dgn Jul. 06, 2000 14:02:23

CHANNEL CONTROL	PLANE COORDINATES X	PLANE COORDINATES Y	CUT	STATION	RGE	AZIMUTH
P.I. I	253,320.00	1,215,850.00	1	0+00	75	271-04-15
P.I. II	257,600.00	1,215,770.00	2	0+00	75	258-06-06
P.I. III	260,590.00	1,216,400.00	3	0+00	75	248-46-35
P.I. IV	262,650.00	1,217,200.00	4	0+00	75	168-07-02
P.I. V	262,125.00	1,219,695.00	5	0+00	50	201-58-42
P.I. VI	262,575.00	1,220,810.00	6	0+00	50	218-55-14
P.I. VII	263,330.00	1,221,745.00	7	0+00	50	229-04-05
P.I. VIII	265,401.33	1,223,541.26	7	27+41.70	50	

WIDENER CONTROL	PLANE COORDINATES X	PLANE COORDINATES Y	CUT	STATION	RGE
POINT 1	257,301.46	1,215,850.59	1	39+80.75	150
POINT 2	257,878.09	1,215,905.24	2	3+00	150
POINT 3	260,280.98	1,216,411.54	2	27+55.65	150
POINT 4	260,842.50	1,216,578.52	3	3+00	150
POINT 5	262,249.97	1,217,125.11	3	18+09.88	150
POINT 6	262,494.24	1,217,575.99	4	4+00	150
POINT 7	262,260.17	1,219,416.87	4	22+49.63	00
POINT 8	262,283.64	1,219,954.49	5	3+00	00
POINT 9	262,509.09	1,220,513.09	5	9+02.38	00
POINT 10	262,802.37	1,221,011.99	6	3+00	00
POINT 11	263,180.42	1,221,480.18	6	9+01.76	00
POINT 12	263,589.41	1,221,903.77	7	3+00	00
POINT 13	265,207.44	1,223,306.93	7	24+41.70	00
POINT 14	265,481.92	1,223,247.99	7	26+10.45	-224.36
POINT 15	265,141.92	1,223,382.48	7	24+41.70	100
POINT 16	265,229.99	1,223,792.53	7	27+76.88	352.09

SURVEY NOTES:

1. REFER TO SURVEY NO. 99-198.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW) WHICH IS 0.81 FEET BELOW NGVD 1929.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27).
6. ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.



BENCHMARK	NGVD ELEV. (FT)
PAG-1	7.10

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 center: XX XX XXXX
Plot scale: XXX

D.O.FILE NO. 57-37.834

Designed by: WRD
Dwn by: SDC
Ckd by: JRM
Dated: MAY 1999

File name: PASSCHS.DGN
Reference files: BGSURVEY.DGN PASSCHS.DGN PAG_TOPO.DGN

PASS-A-GRILLE
PINELLAS COUNTY, FLORIDA
PROJECT CONDITION SURVEY
8 AND 10-FOOT PROJECT
CONTROL SHEET
PLAN

DRAWING NO.
8 / 8
SHEET 8 OF 8

...\a198_sh08.dgn Jul. 06, 2000 14:01:30