Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/03/2011	Task #: 2011090222611504003	Request #: 20110902226115
Procedure: ILS OR LOC RWY 14 AMDT 12		Airport ID: KGLS	Airport: SCHOLES INTL AT GALVESTON		Reimbursable #:
City: GALVESTON	ST: TX	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID: GLS	Fac. Type: ILS	Specialist: JILL OLSON(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/17/2012	10/04/2012	CASIMIR TABAKA	
QA:	10/04/2012	10/04/2012	CASIMIR TABAKA	
Liaison:	10/04/2012		[signature]	MAGVAR

MAG VAR

PR

Procedure Comments:

Remark Type: INFORMATION

pkg 6.16

GALVESTON, TX SCHOLES INTL AT GALVESTON (KGLS) ILS OR LOC RWY 14, AMDT 12 ENROUTE-NO FC: 11.27.12 PUB: 1.10.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): DELVE-INT, REV 13; SCHOLES (VUH) VTAC, REV 13; SWANE-INT, REV 6; UCENU-INT, REV 2; (INFO ONLY) HOBBY (HUB) VDME, REV 16; TRINITY (MHF) VDME, REV 7.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

LOC I-GLS	APP CRS	Rwy ldg	6000
111.7	138°	THRE	5
		Apt Elev	6

ILS or LOC RWY 14

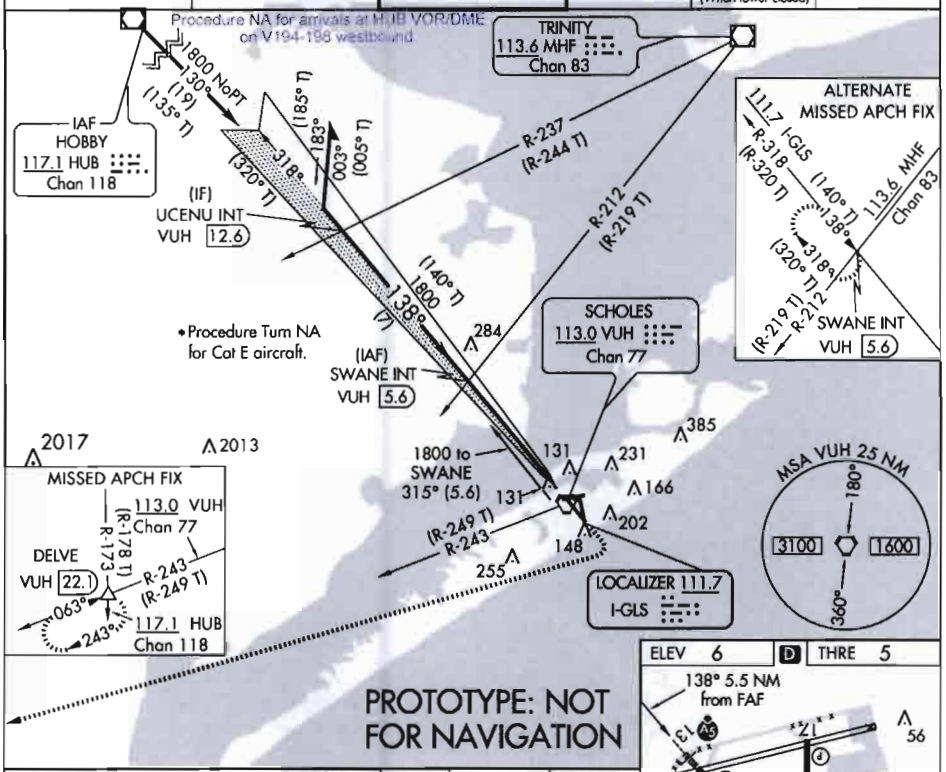
GALVESTON/SCHOLES INTL AT GALVESTON (GLS)

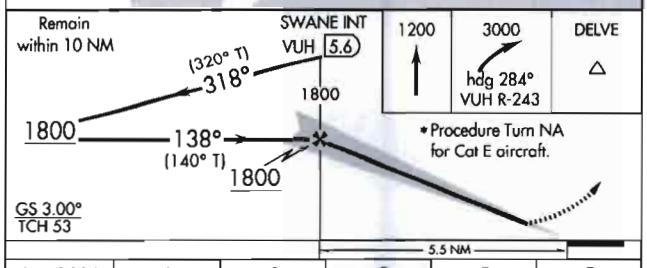
Circling na E of rwy 18 and NE of rwy 32. When local altimeter setting not received, use William P Hobby altimeter setting and increase all DA and MDA 80 feet. Increase S-ILS 14 all cats vis to 3/4 mile and S-LOC 14 cat C/D/E vis to 1 mile and circling cat E vis to 2 1/2 mile. For inoperative MALSR, increase S-ILS 14 cat E vis to 3/4 and S-LOC 14 cat E vis to 1 3/8. For inoperative MALSR, using William P Hobby altimeter, increase S-ILS 14 all cats vis to 7/8 mile and S-LOC 14 cats A/B 1 mile and cat C/D/E vis to 1 1/2 mile.

MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 on heading 284° and VUH VORTAC R-243 to DELVE Int/VUH 22.1 DME and hold.

ASOS	HOUSTON APP CON	GALVESTON TOWER*	GND CON	CLNC DEL	UNICOM
119.275	134.45 284.0	120.575 (CTAF)	118.625	135.35 (When tower closed)	123.05

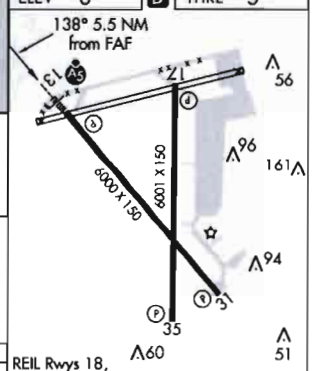




1200	3000	DELVE
↑	hdg 284° VUH R-243	△

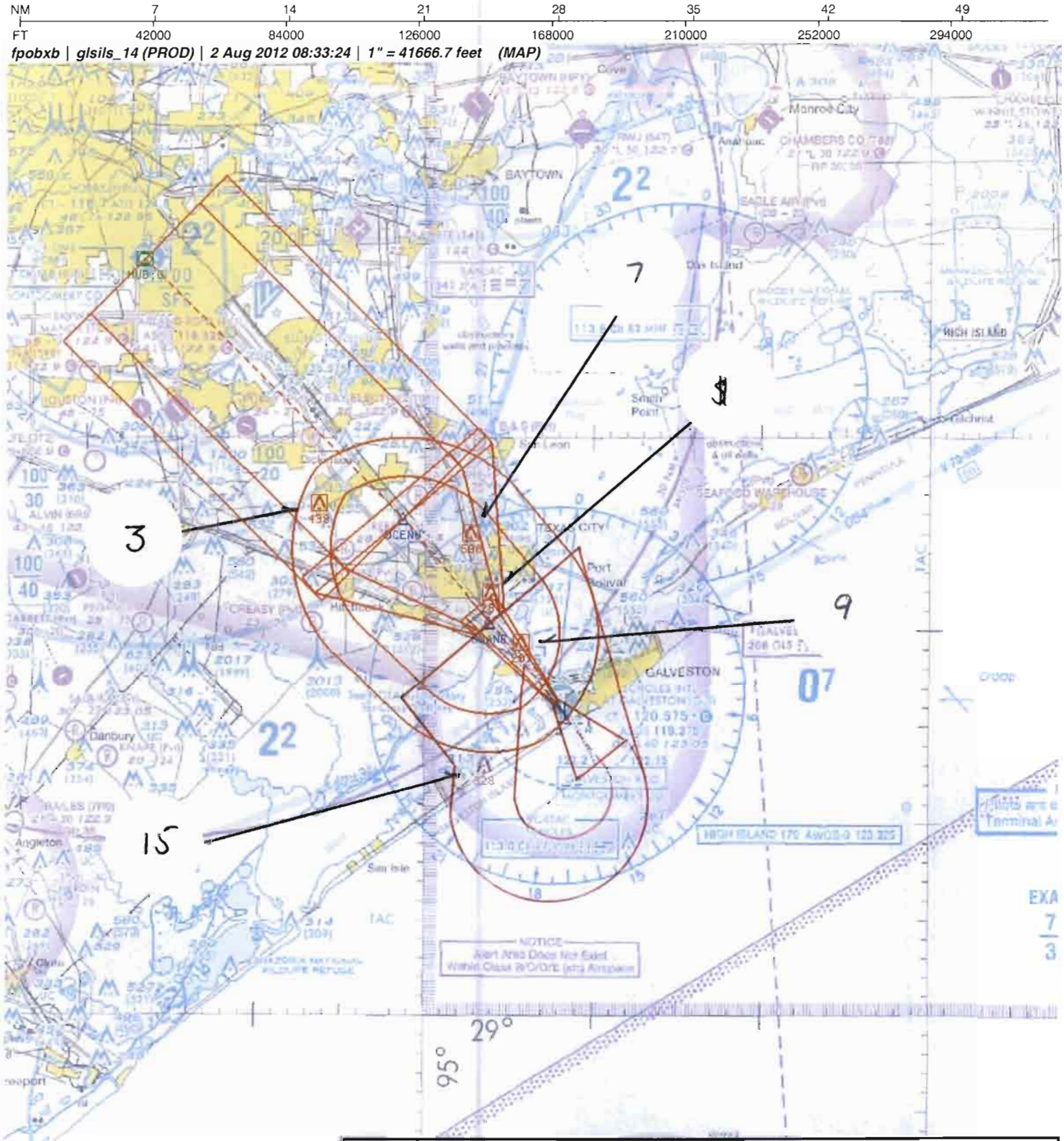
• Procedure Turn NA for Cat E aircraft.

ELEV 6	D	THRE 5

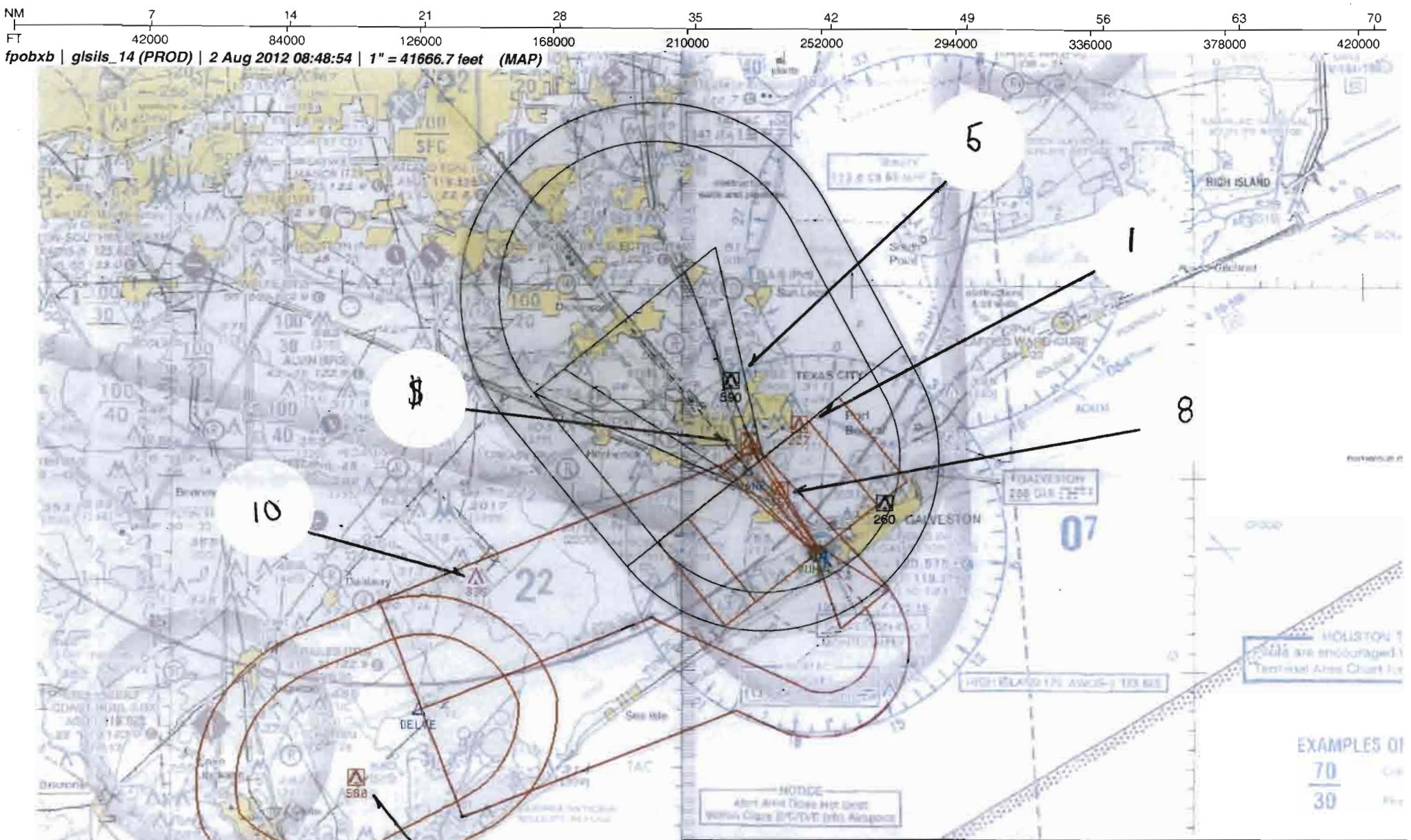


CATEGORY	A	B	C	D	E
S-ILS 14	205-½ 200 (200-½)				
S-LOC 14	460-½ 455 (500-½)		460-⅞ 455 (500-⅞)		
CIRCLING	500-1 494 (500-1)		500-1½ 494 (500-1½)	560-2 554 (600-2)	620-2¼ 614 (700-2¼)

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50



Airport ID:	KGLS	FM 9			
Apt Name:	SCHOLES INTL AT GALVESTON	No	SEGMENT	OBSTRUCTION	ELEV
City:	GALVESTON	3	INITIAL	TOWER	439
State:	TEXAS	7	INTERMEDIATE	TOWER	590
Proc ID:	ILS OR LOC	$	289 OBST	STACK	284
Amdt #:	AMDT 12	9	FINAL	AAO	207
Rwy:	RWY 14	15	MISSED	TOWER	328
Scale:	1:500,000	7	HOLDING	TOWER	590
			ALTERNATE	MISSED	



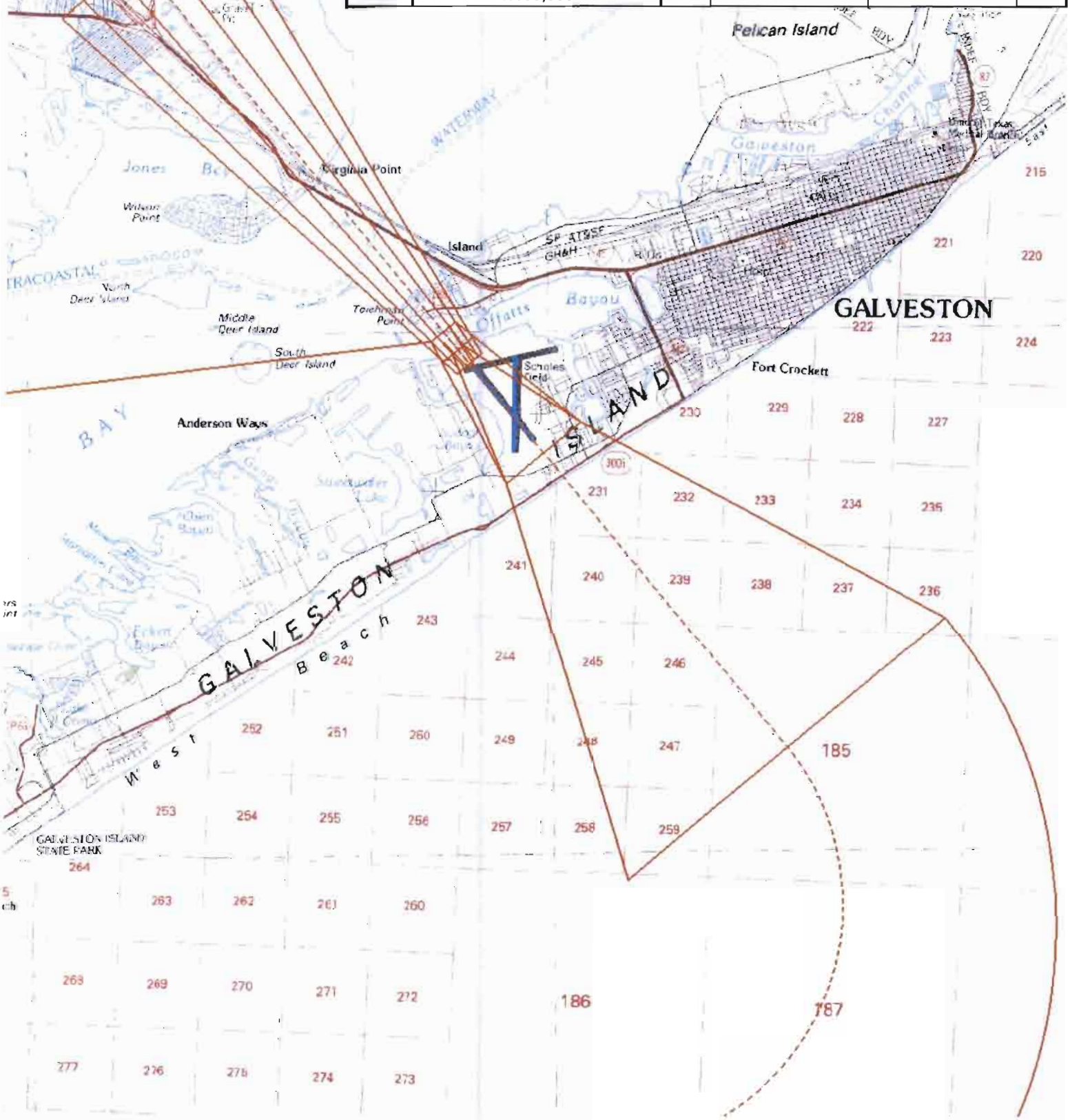
Airport ID:	KGLS	FM 9			
Apt Name:	SCHOLES INTL AT GALVESTON	No	SEGMENT	OBSTRUCTION	ELEV
City:	GALVESTON	1	FEEDER	AAO	227
State:	TEXAS	5	PT INITIAL	TOWER	590
Proc ID:	ILS OR LOC	5	PT INTERMEDIATE	TOWER	590
Amdt #:	AMDT 12	8	FINAL	AAO	207
Rwy:	RWY 14	10	MISSED	REFINERY	335
Scale:	1:500,000	#	HOLDING	TOWER	580

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | glsils_14 (PROD) | 2 Aug 2012 09:48:11 | 1" = 8333.3 feet (MAP)

Airport ID:	KGLS				
Apt Name:	SCHOLES INTL AT GALVESTON	No	SEGMENT	OBSTRUCTION	ELEV
City:	GALVESTON		FINAL	ASC	
State:	TEXAS				
Proc ID:	ILS OR LOC				
Amdt #:	AMDT 12				
Rwy:	RWY 14				
Scale:	1:100,000				

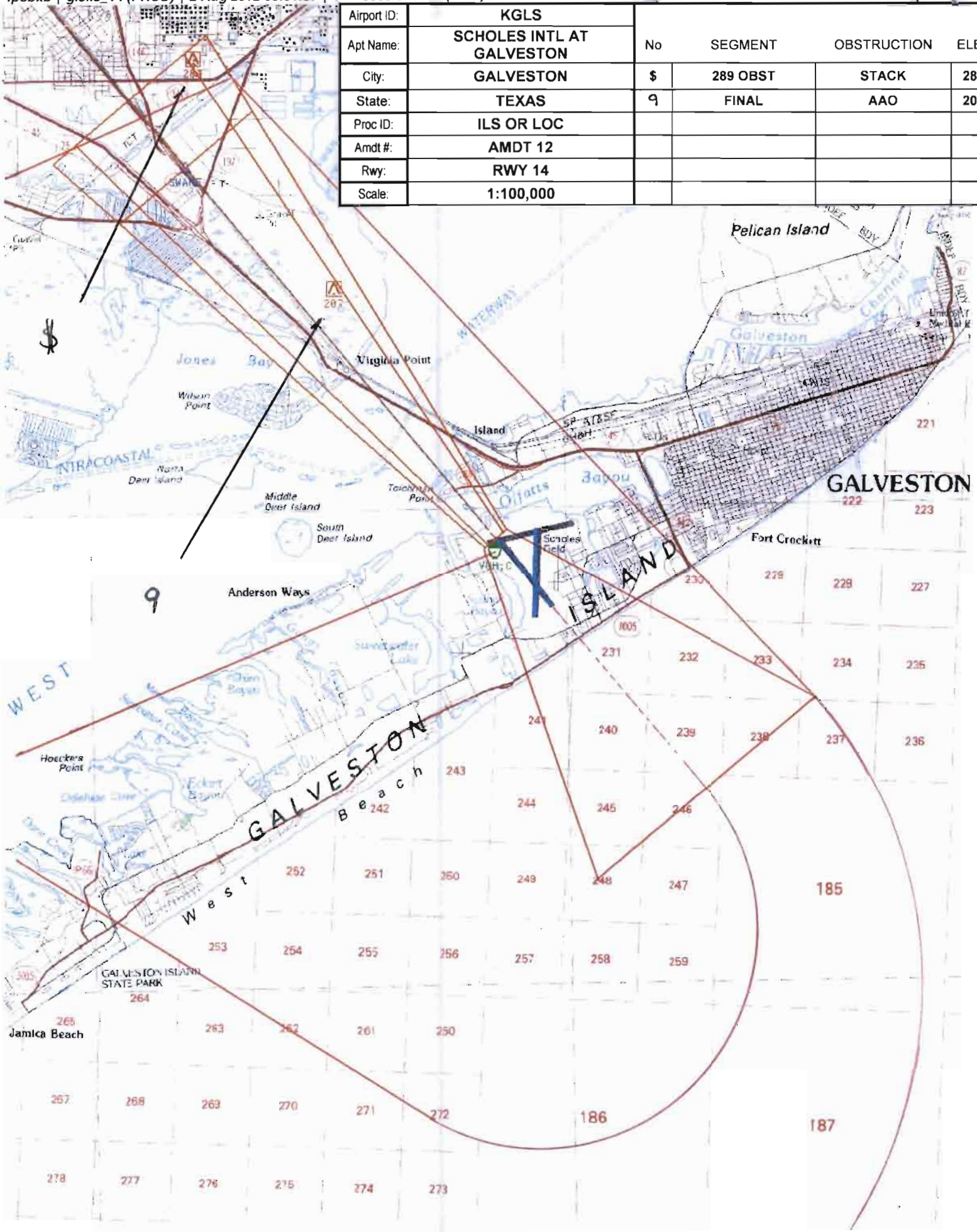


NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | glsils_14 (PROD) | 2 Aug 2012 08:31:37 | 1" = 8333.3 feet (MAP)

Airport ID:	KGLS				
Apt Name:	SCHOLES INTL AT GALVESTON	No	SEGMENT	OBSTRUCTION	ELEV
City:	GALVESTON	$	289 OBST	STACK	284
State:	TEXAS	9	FINAL	AAO	207
Proc ID:	ILS OR LOC				
Amdt #:	AMDT 12				
Rwy:	RWY 14				
Scale:	1:100,000				



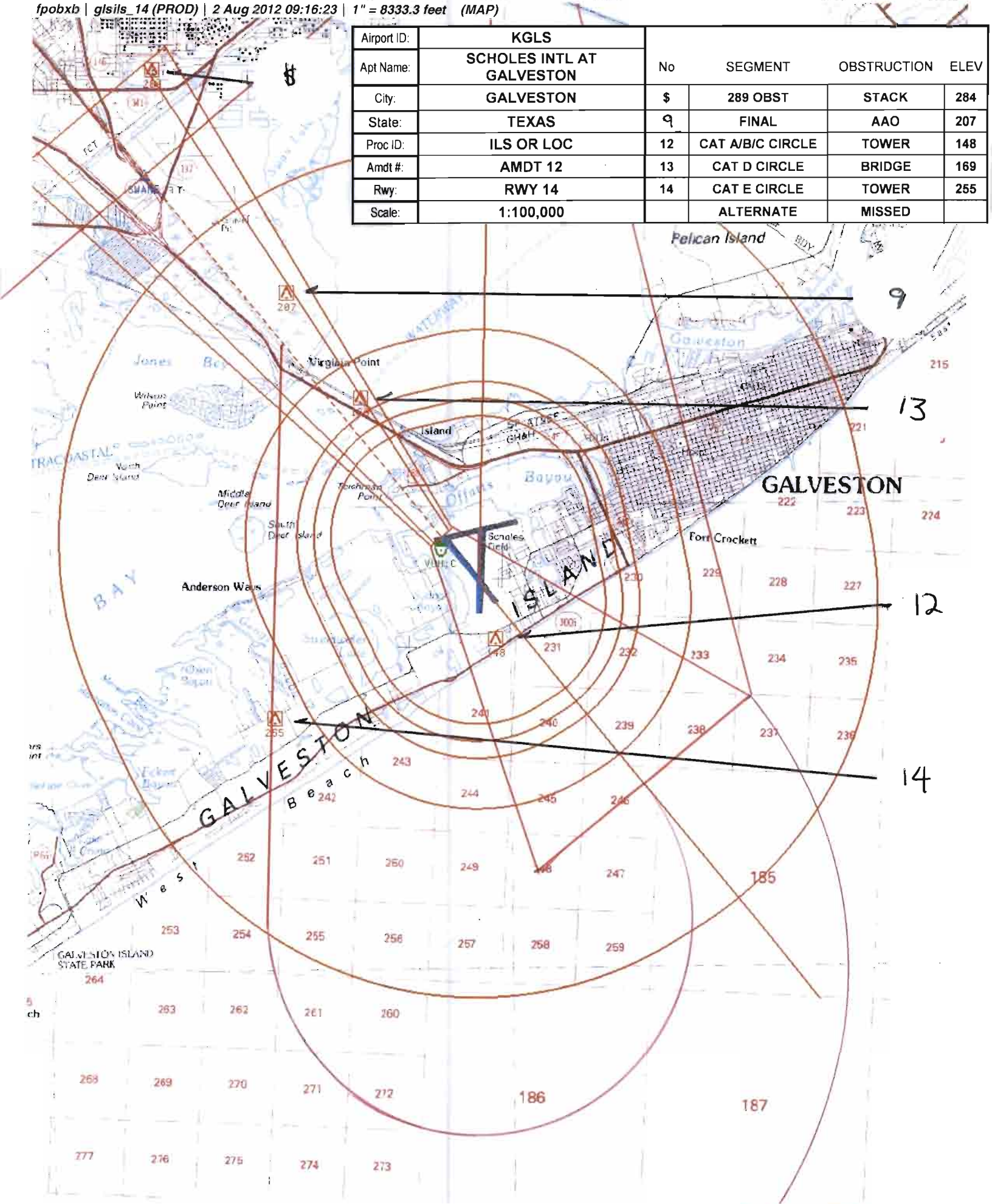
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpobxb | glsils_14 (PROD) | 2 Aug 2012 09:16:23 | 1" = 8333.3 feet (MAP)

Airport ID:	KGLS
Apt Name:	SCHOLES INTL AT GALVESTON
City:	GALVESTON
State:	TEXAS
Proc ID:	ILS OR LOC
Amdt #:	AMDT 12
Rwy:	RWY 14
Scale:	1:100,000

No	SEGMENT	OBSTRUCTION	ELEV
$	289 OBST	STACK	284
9	FINAL	AAO	207
12	CAT A/B/C CIRCLE	TOWER	148
13	CAT D CIRCLE	BRIDGE	169
14	CAT E CIRCLE	TOWER	255
	ALTERNATE	MISSED	



US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
VUH VORTAC	SWANE INT/VUH 5.58 DME	315.08 / 5.58	1800
HUB VOR/DME (IAF)	UCENU INT/VUH 12.58 DME (NOPT)	129.93 / 18.97	1800
UCENU INT/VUH 12.58 DME (IF)	SWANE INT/VUH 5.58 DME	138.11 / 7.00 (I-GLS)	1800

MISSED APPROACH

ILS: DA
LOC: 5.47 MILES AFTER SWANE INT/VUH 5.58 DME

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 284 AND VUH VORTAC R-243 TO DELVE INT/VUH 22.05 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2400 ON HEADING 360 AND I-GLS LOCALIZER NW (318) COURSE TO SWANE INT AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 062.58 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW SWANE INT, RT, 138.11 INBOUND.
FAS OBST: 207 AAO 291903N/0945409W
CHART: 284 STACK 292139N/0945558W

1. PT R SIDE OF COURSE 318.11 OUTBOUND 1800 FT WITHIN 10 MILES OF SWANE (IAF)
2.
3. FAC: 138.11 FAF: SWANE INT/VUH 5.58 DME DIST FAF TO MAP: 5.47 THLD: 5.47
4. MIN. ALT: SWANE 1800
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: 0.46 GS ANT: 1030
6. MIN GS INCPT: 1800 GS ALT AT: SWANE 1800 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 52.7
8. MSA FROM: VUH VORTAC 180-360 3100, 360-180 1600

MAG VAR: 2E EPOCH YEAR: 2015

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A X

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 14	205	1/2	200	205	1/2	200	205	1/2	200	205	1/2	200	205	1/2	200
S-LOC 14	460	1/2	455	460	1/2	455	460	7/8	455	460	7/8	455	460	7/8	455
CIRCLING	500	1	494	500	1	494	500	1 1/2	494	560	2	554	620	2 1/4	614

NOTES:
CHART NOTE: CIRCLING NA E OF RWY 18 AND NE OF RWY 32.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HUB VOR/DME ON V194-198 WESTBOUND.
CHART PROFILE AND PLANVIEW NOTE: *PROCEDURE TURN NA FOR CAT E AIRCRAFT
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLIAM P HOBBY ALTIMETER SETTING AND (SEE FORM 8260-10)

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	AMDT: 11
				DATED 06/08/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **ZHU, AMGR, ST. AV. DIR, HOU APP CON, GLS ATCT**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **JILL OLSON (BRIAN BERUBEE)**	FIFO **AJV-353**	DATE: **08/20/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

1. CHANGED PROCEDURE NAME FROM ILS OR LOC RWY 13 TO ILS OR LOC RWY 14
2. CHANGED MAGVAR FROM 6E TO 2E
3. CHANGED FINAL COURSE FROM 134.11 TO 138.11
4. CHANGED FAF TO MAP DIST FROM 5.38 TO 5.47
5. CHANGED TDZE TO THRE
6. RAISED MISSED APPROACH FINAL ALTITUDE FROM 1800 TO 3000
7. RE-ROUTED ALT MISSED APPROACH FROM GLS NDB TO SWANE INT AND COURSE GUIDNACE FROM NDB TO ILS COURSE.
8. CHANGED INTERMEDIATE COURSE/DIST FROM 134.11/6.01 TO 138.11/7.00
9. CHANGED PT OUTBOUND COURSE FROM 314.11 TO 318.11
10. CHANGED HUB INITIAL COURSE/DIST FROM 130.20/20.05 TO 129.93/18.97
11. CHANGED VUH FEEDER COURSE/DIST/ALT FROM 315.10/5.49/1800 TO 315.08/5.58/3300
12. DELETED VGSI AND ILS GP NOT COINCIDENT NOTE
13. ADDED PROCEDURE ENTRY RESTRICTION NOTE AT HUB V/DME
14. ADDED ALTERNATE ALTIMETER DATA AND APPROPRIATE NOTATIONS
SEE 8260-10

REASONS:

1. RUNWAY NUMBER CHANGE/MAGVAR
2/6. FPT REQUEST
3/9. MAGVAR
4. PFAF LOCATION
5. USING THRE IN LIEU OF TDZE
7. GLS NDB DECOMMISIONED
8. MAGVAR/MINIMUM LEG LENGTH CRITERIA (SHARED FIX W/RNAV)
10. RECALCULATION AFTER UCENU MOVEMENT
11. RECALCULATION AFTER SWANE MOVEMENT/DESCENT CRITERIA
12. NOT APPLICABLE
13. TURN CRITERIA
14. APT DOES NOT HAVE REDUNDANT ALTIMETER REPORTING
15. ILS MONITOR IS CAT 3

QUALITY CHECKED

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NOTES, (CONT.):
INCREASE ALL DA AND MDA 80 FEET. INCREASE S-LOC 14 CAT C/D/E VISIBILITY TO 1 MILE, AND CIRCLING CAT E VISIBILITY TO 2 1/2 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 14 CAT E VISIBILITY TO 3/4 AND S-LOC 14 CAT E VISIBILITY TO 1 3/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING WILLIAM P HOBBY ALTIMETER SETTING, INCREASE S-ILS 14 ALL CATS VISIBILITY TO 7/8 MILE, AND S-LOC 14 CAT E VISIBILITY TO 1 1/2 MILE.

QUALITY CHECKED 2

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	AMDT: 11
				DATED: 06/08/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.

15. DELETED ALTERNATE MINIMUMS AND ASSOCIATED NOTATIONS

REASONS:

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC PACKET - 424-18 - ILS

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        HUB   K4011710VDHW N29392022W095163583    N29392022W095163583E0050000472     NARHOBBY
        SUSAD        VUH   K4011300VTLW N29160960W094520381    N29160960W094520381E0060000041     NARSCHOLES

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   DELVE K40    C   L N29080317W095153036                      E0030     NAR           DELVE
        SUSAEAENRT   SWANE K40    C     N29203057W094560436                      E0028     NAR           SWANE
        SUSAEAENRT   UCENU K40    C     N29255341W095011300                      E0029     NAR           UCENU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4AGLS     0     060YHN29155520W094513750E002000006         1800018000C    MNAR    SCHOLES INTL AT GALVESTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4FI14   AHUB   010HUB  K4D 0V  A    FC HUB K4      0000000012990170D   + 01800     18000                0 NS
        SUSAP KGLSK4FI14   AHUB   020UCENUK4EA0EE B    CF IGLSK4      3181013612990020PI  + 01800                          0 NS
        SUSAP KGLSK4FI14   AVUH   010VUH  K4D 0V       IF                                              18000                0 NS
        SUSAP KGLSK4FI14   AVUH   020SWANEK4EA0E       TF                                  + 01800                          0 NS
        SUSAP KGLSK4FI14   AVUH   030SWANEK4EA0EE AL   PI IGLSK4      3181006600310100PI  + 01800                          0 NS
        SUSAP KGLSK4FI14   I      010UCENUK4EA0E  I    IF IGLSK4      31810136        PI  J 018000180018000                0 NS
        SUSAP KGLSK4FI14   I      020SWANEK4EA0E  F    CF IGLSK4      3181006613800070PI  H 0180001800        -300VUH   K4D 0 NS
        SUSAP KGLSK4FI14   I      030RW14 K4PG0GY M    CF IGLSK4      3181001213800055PI    00058             -300          0 NS
        SUSAP KGLSK4FI14   I      040         0  M     CA                     1381        + 01200                          0 NS
        SUSAP KGLSK4FI14   I      050         0    R   VIY                    2840                                         0 NS
        SUSAP KGLSK4FI14   I      060DELVEK4EA0EY      CF VUH K4      2426022124260170D   + 03000                          0 NS
        SUSAP KGLSK4FI14   I      070DELVEK4EA0EE  R   HM                     0626T010    + 03000                          0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4GRW14    0060001381 N29161818W094520353+0000    -0024800005000053150IIGLS1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4IIGLS1   011170RW14 N29152462W0945112491381N29161354W0945151741050 10300568300E00205300005
```

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: **SCHOLES INTL AT GALVESTON**	**I-GLS**	**ILS OR LOC RWY 14, AMDT 12**	AMDT: **11**
				DATED: **06/08/2006**

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4SVUH  K4D                 0   18036001625360180031 25                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	AMDT: 11
				DATED: 06/08/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HUB	HUB	010	IAF	FC		FB		129.9()	017.0	AA 01800	
	HUB	UCENU	020		CF		FB		129.9()	002.0	AA 01800	
	VUH	VUH	010		IF		FB					
	VUH	SWANE	020		TF		FB				AA 01800	
	VUH	SWANE	030	IAF	PI	L	FB		003.1()	010.0	AA 01800	
		UCENU	010	FACF	IF		FB				AA 01800 GI 01800	
		SWANE	020	FAF	CF		FB		138.0()	007.0	GI 01800 GS 01800	
		RW14	030	MAP	CF		FO		138.0()	005.5	AT 00058	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		138.1()		AA 01200	
		050		VI	R	FB		284.0()			
	DELVE	060		CF		FO		242.6()	017.0	AA 03000	
	DELVE	070		HM	R	FO		062.6()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HUB	N293920.22	W0951635.83	N2939.337	W09516.597
	VUH	N291609.60	W0945203.81	N2916.160	W09452.064
	DELVE	N290803.17	W0951530.36	N2908.053	W09515.506
	SWANE	N292030.57	W0945604.36	N2920.510	W09456.073
	UCENU	N292553.41	W0950113.00	N2925.890	W09501.217
	RW14	N291618.18	W0945203.53	N2916.303	W09452.059
	IGLS (LOC)	N291524.62	W0945112.49	N2915.410	W09451.208

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00005	53

QUALITY CHECKED

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	AMDT: 11
				DATED: 06/08/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - LOC

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        HUB   K4011710VDHW N29392022W095163583    N29392022W095163583E0050000472     NARHOBBY
        SUSAD        VUH   K4011300VTLW N29160960W094520381    N29160960W094520381E0060000041     NARSCHOLES

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   DELVE K40    C   L N29080317W095153036                      E0030     NAR           DELVE
        SUSAEAENRT   SWANE K40    C     N29203057W094560436                      E0028     NAR           SWANE
        SUSAEAENRT   UCENU K40    C     N29255341W095011300                      E0029     NAR           UCENU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4AGLS     0     060YHN29155520W094513750E002000006         1800018000C    MNAR    SCHOLES INTL AT GALVESTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4FL14   AHUB   010HUB  K4D 0V  A    FC HUB K4      0000000012990170D   + 01800     18000                 0 NS
        SUSAP KGLSK4FL14   AHUB   020UCENUK4EA0EE B    CF IGLSK4      3181013612990020PI  + 01800                           0 NS
        SUSAP KGLSK4FL14   AVUH   010VUH  K4D 0V       IF                                             18000                 0 NS
        SUSAP KGLSK4FL14   AVUH   020SWANEK4EA0E       TF                                  + 01800                           0 NS
        SUSAP KGLSK4FL14   AVUH   030SWANEK4EA0EE AL   PI IGLSK4      3181006600310100PI  + 01800                           0 NS
        SUSAP KGLSK4FL14   L      010UCENUK4EA0E  I    IF IGLSK4      31810136        PI  + 01800     18000                 0 NS
        SUSAP KGLSK4FL14   L      020SWANEK4EA0E  F    CF IGLSK4      3181006613800070PI  + 01800                 VUH   K4D 0 NS
        SUSAP KGLSK4FL14   L      030RW14 K4PG0GY M    CF IGLSK4      3181001213800055PI    00058             -301          0 NS
        SUSAP KGLSK4FL14   L      040         0  M     CA                     1381        + 01200                           0 NS
        SUSAP KGLSK4FL14   L      050         0    R   VIY                    2840                                          0 NS
        SUSAP KGLSK4FL14   L      060DELVEK4EA0EY      CF VUH K4      2426022124260170D   + 03000                           0 NS
        SUSAP KGLSK4FL14   L      070DELVEK4EA0EE  R   HM                     0626T010    + 03000                           0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4GRW14    0060001381 N29161818W094520353+0000    -0024800005000053150IIGLS1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4IIGLS1   011170RW14 N29152462W0945112491381N29161354W0945151741050 10300568300E00205300005
```

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: **SCHOLES INTL AT GALVESTON**	**I-GLS**	**ILS OR LOC RWY 14, AMDT 12**	AMDT: **11**
				DATED: **06/08/2006**

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KGLSK4SVUH  K4D                 0   1803600162536018003125                                                          M
```

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	AMDT: 11
				DATED: 06/08/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HUB	HUB	010	IAF	FC		FB		129.9()	017.0	AA 01800	
	HUB	UCENU	020		CF		FB		129.9()	002.0	AA 01800	
	VUH	VUH	010		IF		FB					
	VUH	SWANE	020		TF		FB				AA 01800	
	VUH	SWANE	030	IAF	PI	L	FB		003.1()	010.0	AA 01800	
		UCENU	010	FACF	IF		FB				AA 01800	
		SWANE	020	FAF	CF		FB		138.0()	007.0	AA 01800	
		RW14	030	MAP	CF		FO		138.0()	005.5	AT 00058	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		138.1()		AA 01200	
		050		VI	R	FB		284.0()			
	DELVE	060		CF		FO		242.6()	017.0	AA 03000	
	DELVE	070		HM	R	FO		062.6()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HUB	N293920.22	W0951635.83	N2939.337	W09516.597
	VUH	N291609.60	W0945203.81	N2916.160	W09452.064
	DELVE	N290803.17	W0951530.36	N2908.053	W09515.506
	SWANE	N292030.57	W0945604.36	N2920.510	W09456.073
	UCENU	N292553.41	W0950113.00	N2925.890	W09501.217
	RW14	N291618.18	W0945203.53	N2916.303	W09452.059
	IGLS (LOC)	N291524.62	W0945112.49	N2915.410	W09451.208

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00005	53

CITY AND STATE	ELEVATION: 6 THRE: 5	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 13
GALVESTON, TX	AIRPORT NAME: **SCHOLES INTL AT GALVESTON**	**I-GLS**	**ILS OR LOC RWY 14, AMDT 12**	AMDT: **11**
				DATED: **06/08/2006**

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	VUH VORTAC	SWANE INT/VUH	1. AAO	292227.00N/0945303.00W	227 (4E)	1000	AT573	1800
		5.58 DME	2. TERRAIN	291748.00N/0945503.00W	40 (0)		AS1500	1500
INITIAL	HUB VOR/DME	UCENU INT/VUH	3. TOWER (48-004279)	292615.00N/0950613.00W	439 (3C)	1000	AT361	1800
		12.58 DME	4. TERRAIN	293733.00N/0951644.00W	56 (100)		AS1500	1600
INTERMEDIATE: PT	10 NM	SWANE INT/VUH	5. TOWER (48-004625)	292443.62N/0945708.58W	590 (4D)	500	AT710	1800
		5.58 DME	6. TERRAIN	292527.00N/0950236.00W	27 (0)		AS1000	1000
INTERMEDIATE	UCENU INT/VUH	SWANE INT/VUH	5. TOWER (48-004625)	292443.62N/0945708.58W	590 (4D)	500	AT710	1800
	12.58 DME	5.58 DME	7. TERRAIN	293230.00N/0950354.00W	43 (0)		AS1000	1000
FINAL: ILS	SWANE INT/VUH	RW14				ASC		205/200
	5.58 DME							
FINAL: LOC	SWANE INT/VUH	5.47 MILES AFTER	8. AAO	291903.00N/0945409.00W	207 (2C)	250		460
	5.58 DME	SWANE INT/VUH						
		5.58 DME						
2. PROCEDURE TURN	SWANE	10 NM	5. TOWER (48-004625)	292443.62N/0945708.58W	590 (4D)	1000	AT210	1800
			9. TERRAIN	293315.00N/0950912.00W	56 (100)		AS1500	1600
3. MISSED APPROACH — MAP:	DA / 5.47 MILES	DELVE INT/VUH				ASC		3000
	AFTER SWANE	22.05 DME	10. REFINE (48-003926)	291429.00N/0951203.00W	335 (5D)	1000		1400
ELEV:	38/210		11. TERRAIN	291748.00N/0945503.00W	40 (0)		AS1500	1500

4. CIRCLING AREA	DISTANCE	REQUIRED HT. ABV. ARPT.	ACTUAL HT. ABV. ARPT.						
CATEGORY A	1.3 NM	350	494	12. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY B	1.5 NM	450	494	12. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY C	1.7 NM	450	494	12. TOWER (48-011943)	291502.00N/0945119.00W	148 (5D)	300	AC50	500
CATEGORY D	2.3 NM	550	554	13. BRIDGE (48-005786)	291750.00N/0945309.00W	169 (5D)	300	HAA	560
CATEGORY E	4.5 NM	550	614	14. TOWER (48-001949)	291405.00N/0945416.00W	255 (5D)	300	AC50	620

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: VUH VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
180-360	TWR (48-005320)	268/ 19.1	2017 (3C)	3100					
360-180	TWR (48-002593)	036/ 10.3	560 (2C)	1600					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 6 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
GALVESTON, TX	SCHOLES INTL AT GALVESTON	I-GLS	ILS OR LOC RWY 14, AMDT 12	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZHU ARTCC HOUSTON APP CON GLS TOWER		N W S	OTHER: ASOS	SOURCE: KGLS / KHOU
		F A A		DISTANCE: 0 / 31.59
		A / C		HOURS REMOTE OPERATION: 24 / 24
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KGLS			ADJUSTMENT: 0 / 79

4. MONITOR STATUS	PRIMARY NAVAID: I-GLS		
	MONITOR POINT: UNKNOWN		
	HRS OPTN:	CAT 1	
		CAT 3	24

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 14 (PCL)
	X	HIRL 14, 32
	X	MIRL 18 (PCL), 36
	X	REIL 18, 36, 32
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 18, 36, 14, 32

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 14, 32
	INSTRUMENT	NPI-G 18, 36
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 5.4
	DISTANCE FROM RWY: 1030	ELEV GP ANTENNA: 4.1
		THRESHOLD CROSSING HEIGHT: 52.7

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (BRIAN BERUBEE)	DATE: 08/20/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 284 STACK
292139N/0945558W

NO ADDITIONAL AIRSPACE REQUIRED.
RASS PRESSURE PATTERNS SAME
KGLS 6, KHOU 46
RA = 78.36.

40' VEGETATION APPLIED PER FPT

30' BOAT HEIGHT USED IN BAY, 50' BOAT HEIGHT USED IN GULF PER PREVIOUS AMDT

KGLS ASOS ON SVC A
KHOU ASOS ON SVC A

RASS ADJUSTMENT ROUNDED UP TO 80 FEET AND PUBLISHED BY NOTE

VGSI DATA: 52.2/3.00

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 2400
15. TOWER (48-014090) 291239.60N/0945618.78W 328 (2C)
1000 1400
11. TERRAIN 291748.00N/0945503.00W 40 (0) AS1500 1500

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DELVE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 290803.17N/0951530.36W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SCHOLES	VUH	VORTAC	H	242.58	248.58	22.05	22.05		2600	17500
2	HOBBY	HUB	VOR/DME	H	173.25	178.25		31.22		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	283.37	103.37	R		4	2000	6000	4	6
2	SW	VUH	VORTAC	242.58	062.58	R	1		2600	6000	6	8
3	E		WP	090.96	270.96	R		4	2000	10000	4	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-012449)	290730.00N/0952125.00W	485	4D
1	200	TOWER (48-004472)	290401.56N/0951911.64W	580	2C
2	200	TOWER (48-004472)	290401.56N/0951911.64W	580	2C
3	200	TOWER (48-002869)	291130.00N/0951734.00W	335	5D
3	265	TOWER (48-012449)	290730.00N/0952125.00W	485	4D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3100

REMARKS:
SCHOLES (FAC 1) AND HOBBY (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V70	1, 2				(US)
IAP	RNAV (GPS) RWY 35		1	KLBX	ANGLETON/LAKE JACKSON	TX (US)
IAP	ILS OR LOC RWY 14	1, 2	2	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 14		3	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 18		3	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 32		3	KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14	1, 2	2	KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
DELETED FAC 3 (RELOY) AND ASSOCIATED DATA
CHANGED PATTERN 1 MAX TEMPLATE FROM 10 TO 6
CHANGED PATTERN 2 MIN/MAX TEMPLATE FROM 5/11 TO 6/8
CHANGED PATTERN 3 INBOUND COURSE FROM 266.96 TO 270.96
CHANGED PAT 3 HOLDING OBST FROM 2017 TWR TO 485 TWR
CHANGED DME FOR PATTERN 1 & 3 FROM 5 TO 4
UPATED PATTERN 1 & 2 CONTROLLING OBST
ADDED NOTE "PRECIPITOUS TERRAIN EVALUATION COMPLETE"
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY CHECKED 2

RADIO FIX AND HOLDING DATA RECORD

NAME: SCHOLES VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 291609.60N/0945203.81W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SCHOLES	VUH	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	VUH	VORTAC	232.90	052.90	R	1		3000	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (48-005320)	291719.00N/0951353.00W	2017	3C
1	200	TOWER (48-014090)	291239.60N/0945618.78W	313	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOWFN (RNAV)			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	SCHOLES			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TRUAX			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	BOWFN (RNAV)			KGLS	GALVESTON	TX (US)
DP	SCHOLES			KGLS	GALVESTON	TX (US)
DP	TRUAX			KGLS	GALVESTON	TX (US)
DP	BOWFN (RNAV)			KAXH	HOUSTON	TX (US)
DP	SCHOLES			KAXH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KCXO	HOUSTON	TX (US)
DP	SCHOLES			KCXO	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KDWH	HOUSTON	TX (US)
DP	SCHOLES			KDWH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEFD	HOUSTON	TX (US)
DP	SCHOLES			KEFD	HOUSTON	TX (US)
DP	TRUAX			KEFD	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KEYQ	HOUSTON	TX (US)
DP	SCHOLES			KEYQ	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KHOU	HOUSTON	TX (US)
DP	SCHOLES			KHOU	HOUSTON	TX (US)
DP	TRUAX			KHOU	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIAH	HOUSTON	TX (US)
DP	SCHOLES			KIAH	HOUSTON	TX (US)
DP	TRUAX			KIAH	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KIWS	HOUSTON	TX (US)
DP	SCHOLES			KIWS	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KSGR	HOUSTON	TX (US)
DP	SCHOLES			KSGR	HOUSTON	TX (US)
DP	TRUAX			KSGR	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KTME	HOUSTON	TX (US)
DP	SCHOLES			KTME	HOUSTON	TX (US)
DP	BOWFN (RNAV)			KT41	LA PORTE	TX (US)
DP	SCHOLES			KT41	LA PORTE	TX (US)
EN ROUTE	B753					(US)
EN ROUTE	V556					(US)
EN ROUTE	V70					(US)
EN ROUTE	V70-556					(US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14			KGLS	GALVESTON	TX (US)
IAP	ILS OR LOC RWY 12R			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 30L (ALT MA)		1	KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II)			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT III)			KHOU	HOUSTON	TX (US)
IAP	LOC RWY 22			KHOU	HOUSTON	TX (US)
IAP	RNAV (GPS) RWY 12R			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 35			KHOU	HOUSTON	TX (US)
IAP	VOR/DME-E			KHOU	HOUSTON	TX (US)
IAP	NDB RWY 30			KT41	LA PORTE	TX (US)
IAP	VOR-A			KT41	LA PORTE	TX (US)

QUALITY CHECKED 2

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
CHANGED UPN HOLDING OBSTACLE FROM 590 TOWER TO 2017 TOWER
UPDATED FIX USE

DEVELOPED BY:	**DATE:** 09/06/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (BRIAN BERUBEE)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SWANE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 292030.57N/0945604.36W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GALVESTON	I-GLS	LOC		318.11	320.11		6.63	40287	1800	4500
2	TRINITY	MHF	VOR/DME	L	211.72	218.72		15.68		1800	17500
3	SCHOLES	VUH	VORTAC	H			5.58	5.58		1800	17500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	I-GLS	LOC	318.11	138.11	R	1		2400	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-004625)	292443.62N/0945708.58W	590	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
GALVESTON (FAC 1) AND TRINITY (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2, 3		KGLS	GALVESTON	TX (US)
IAP	ILS OR LOC RWY 14 (ALT MISSED)	1, 2	1	KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 14			KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
REPOSITIONED FIX 520 FT NORTHWEST
DELETED FAC 4 (RWY13) AND ASSOCIATED DATA
CHANGED FAC 2 BRG FROM 211.71 TO 211.72
CHANGED FAC 3 DME VALUE FROM 5.49 TO 5.58
ADDED HOLDING PATTERN AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON, GLS ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UCENU **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 292553.41N/0950113.00W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GALVESTON	I-GLS	LOC		318.11	320.11		13.63		1800	4500
2	TRINITY	MHF	VOR/DME	L	237.37	244.37		15.85		1800	17500
3	SCHOLES	VUH	VORTAC	H			12.58	12.58		1800	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
TRINITY (FAC 2) AND GALVESTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
FIX NAME RETAINED AT ATC REQUEST DUE TO OPERATIONAL NECESSITY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2, 3		KGLS	GALVESTON	TX (US)
IAP	RNAV (GPS) RWY 14			KGLS	GALVESTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
FIX REPOSITIONED 1.08 NM NORTHWEST
DELETED FAC 4 (RWY13) AND ASSOCIATED DATA
CHANGED FAC 2 BRG FROM 233.52 TO 237.37
CHANGED FAC 3 DME VALUE FROM 11.50 TO 12.58
ADDED DIST FROM ALL FACILITIES
UPDATED FIX USE

DEVELOPED BY: **DATE:** 08/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOU APP CON, GLS ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOBBY VOR/DME **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 293920.26N/0951635.92W **TYPE:**

INFO ONLY

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HOBBY	HUB	VOR/DME	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	HUB	VOR/DME	146.95	326.95	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	BLDG (48-004185)	294531.00N/0952204.00W	1049	5D
1	200	STACK (48-004269)	294300.00N/0951339.00W	501	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PALACIOS			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	TRUAX			KLBX	ANGLETON/LAKE JACKSON	TX (US)
DP	PALACIOS			KGLS	GALVESTON	TX (US)
DP	TRUAX			KGLS	GALVESTON	TX (US)
DP	PALACIOS			KAXH	HOUSTON	TX (US)
DP	PALACIOS			KCXO	HOUSTON	TX (US)
DP	PALACIOS			KDWH	HOUSTON	TX (US)
DP	PALACIOS			KEFD	HOUSTON	TX (US)
DP	TRUAX			KEFD	HOUSTON	TX (US)
DP	PALACIOS			KEYQ	HOUSTON	TX (US)
DP	PALACIOS			KHOU	HOUSTON	TX (US)
DP	TRUAX			KHOU	HOUSTON	TX (US)
DP	PALACIOS			KIAH	HOUSTON	TX (US)
DP	TRUAX			KIAH	HOUSTON	TX (US)
DP	PALACIOS			KIWS	HOUSTON	TX (US)
DP	PALACIOS			KSGR	HOUSTON	TX (US)
DP	TRUAX			KSGR	HOUSTON	TX (US)
DP	PALACIOS			KTME	HOUSTON	TX (US)
DP	PALACIOS			KT41	LA PORTE	TX (US)
DP	HUBEE (RNAV)			KSAT	SAN ANTONIO	TX (US)
DP	HUBEE (RNAV)			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	J138					(US)
EN ROUTE	J177					(US)
EN ROUTE	J37					(US)
EN ROUTE	V15					(US)
EN ROUTE	V194					(US)
EN ROUTE	V198					(US)
EN ROUTE	V20					(US)
EN ROUTE	V68					(US)
EN ROUTE	V548					TX (US)
EN ROUTE	V558					TX (US)
EN ROUTE	V76					TX (US)
IAP	ILS OR LOC RWY 17			KLBX	ANGLETON/LAKE JACKSON	TX (US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	LOC/DME RWY 9			KAXH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 14			KCXO	HOUSTON	TX (US)
IAP	NBD RWY 14			KCXO	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 17R			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 22			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35L			KEFD	HOUSTON	TX (US)
IAP	NDB-F			KEYQ	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 12R			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 30L			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 4			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II)			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT III)			KHOU	HOUSTON	TX (US)
IAP	LOC RWY 22			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 30L			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 35			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 4			KHOU	HOUSTON	TX (US)
IAP	VOR/DME-E			KHOU	HOUSTON	TX (US)

QUALITY CHECKED 2

IAP	ILS OR LOC RWY 15R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26L	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 26R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 27	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8L	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 8R	KIAH	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 9	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26L (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 26R (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (CAT I)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 27 (CAT III)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (CAT II)	KIAH	HOUSTON	TX (US)
IAP	ILS RWY 8L (CAT III)	KIAH	HOUSTON	TX (US)
IAP	RNAV (GPS) Y RWY 33	KIWS	HOUSTON	TX (US)
IAP	VOR-D	KIWS	HOUSTON	TX (US)
IAP	VOR-B	KLVJ	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35	KSGR	HOUSTON	TX (US)
IAP	VOR/DME-A	KSGR	HOUSTON	TX (US)
IAP	NDB RWY 30	KT41	LA PORTE	TX (US)
IAP	VOR-A	KT41	LA PORTE	TX (US)
STAR	CARNE	KT00	ANAHUAC	TX (US)
STAR	DAISETTA	KT00	ANAHUAC	TX (US)
STAR	KABOY (RNAV)	KT00	ANAHUAC	TX (US)
STAR	ROKIT (RNAV)	KT00	ANAHUAC	TX (US)
STAR	ROYOH	KT00	ANAHUAC	TX (US)
STAR	CARNE	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	DAISETTA	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	KABOY (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	ROKIT (RNAV)	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	ROYOH	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	TEXNN	KLBX	ANGLETON/LAKE JACKSON	TX (US)
STAR	BITER	K6R4	AUSTIN	TX (US)
STAR	WLEEE (RNAV)	K6R4	AUSTIN	TX (US)
STAR	BITER	KAUS	AUSTIN	TX (US)
STAR	WLEEE (RNAV)	KAUS	AUSTIN	TX (US)
STAR	CARNE	K54T	BAYTOWN	TX (US)
STAR	DAISETTA	K54T	BAYTOWN	TX (US)
STAR	KABOY (RNAV)	K54T	BAYTOWN	TX (US)
STAR	ROKIT (RNAV)	K54T	BAYTOWN	TX (US)
STAR	ROYOH	K54T	BAYTOWN	TX (US)
STAR	CARNE	KHPY	BAYTOWN	TX (US)
STAR	DAISETTA	KHPY	BAYTOWN	TX (US)
STAR	KABOY (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	ROKIT (RNAV)	KHPY	BAYTOWN	TX (US)
STAR	ROYOH	KHPY	BAYTOWN	TX (US)
STAR	CARNE	KGLS	GALVESTON	TX (US)
STAR	DAISETTA	KGLS	GALVESTON	TX (US)
STAR	KABOY (RNAV)	KGLS	GALVESTON	TX (US)
STAR	ROKIT (RNAV)	KGLS	GALVESTON	TX (US)
STAR	ROYOH	KGLS	GALVESTON	TX (US)
STAR	TEXNN	KGLS	GALVESTON	TX (US)
STAR	BITER	KGTU	GEORGETOWN	TX (US)
STAR	WLEEE (RNAV)	KGTU	GEORGETOWN	TX (US)
STAR	CARNE	KAXH	HOUSTON	TX (US)
STAR	DAISETTA	KAXH	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KAXH	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KAXH	HOUSTON	TX (US)
STAR	ROYOH	KAXH	HOUSTON	TX (US)
STAR	CARNE	KCXO	HOUSTON	TX (US)
STAR	DAISETTA	KCXO	HOUSTON	TX (US)
STAR	GILCO	KCXO	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KCXO	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KCXO	HOUSTON	TX (US)
STAR	ROYOH	KCXO	HOUSTON	TX (US)
STAR	CARNE	KDWH	HOUSTON	TX (US)
STAR	DAISETTA	KDWH	HOUSTON	TX (US)
STAR	GILCO	KDWH	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KDWH	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KDWH	HOUSTON	TX (US)
STAR	ROYOH	KDWH	HOUSTON	TX (US)
STAR	CARNE	KEFD	HOUSTON	TX (US)
STAR	DAISETTA	KEFD	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KEFD	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KEFD	HOUSTON	TX (US)
STAR	ROYOH	KEFD	HOUSTON	TX (US)
STAR	TEXNN	KEFD	HOUSTON	TX (US)
STAR	CARNE	KEYQ	HOUSTON	TX (US)
STAR	DAISETTA	KEYQ	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KEYQ	HOUSTON	TX (US)
STAR	ROYOH	KEYQ	HOUSTON	TX (US)
STAR	BLUBELL	KHOU	HOUSTON	TX (US)
STAR	CARNE	KHOU	HOUSTON	TX (US)
STAR	DAISETTA	KHOU	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KHOU	HOUSTON	TX (US)

QUALITY CHECKED 2

STAR	ROKIT (RNAV)	KHOU	HOUSTON	TX (US)
STAR	ROYOH	KHOU	HOUSTON	TX (US)
STAR	TEXNN	KHOU	HOUSTON	TX (US)
STAR	CARNE	KIAH	HOUSTON	TX (US)
STAR	DAISETTA	KIAH	HOUSTON	TX (US)
STAR	GILCO	KIAH	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KIAH	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KIAH	HOUSTON	TX (US)
STAR	ROYOH	KIAH	HOUSTON	TX (US)
STAR	CARNE	KIWS	HOUSTON	TX (US)
STAR	DAISETTA	KIWS	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KIWS	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KIWS	HOUSTON	TX (US)
STAR	ROYOH	KIWS	HOUSTON	TX (US)
STAR	ROYOH	KIWS	HOUSTON	TX (US)
STAR	CARNE	KLVJ	HOUSTON	TX (US)
STAR	DAISETTA	KLVJ	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KLVJ	HOUSTON	TX (US)
STAR	ROYOH	KLVJ	HOUSTON	TX (US)
STAR	CARNE	KSGR	HOUSTON	TX (US)
STAR	DAISETTA	KSGR	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KSGR	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KSGR	HOUSTON	TX (US)
STAR	ROYOH	KSGR	HOUSTON	TX (US)
STAR	CARNE	KTME	HOUSTON	TX (US)
STAR	DAISETTA	KTME	HOUSTON	TX (US)
STAR	KABOY (RNAV)	KTME	HOUSTON	TX (US)
STAR	ROKIT (RNAV)	KTME	HOUSTON	TX (US)
STAR	ROYOH	KTME	HOUSTON	TX (US)
STAR	CARNE	KT41	LA PORTE	TX (US)
STAR	DAISETTA	KT41	LA PORTE	TX (US)
STAR	KABOY (RNAV)	KT41	LA PORTE	TX (US)
STAR	ROKIT (RNAV)	KT41	LA PORTE	TX (US)
STAR	ROYOH	KT41	LA PORTE	TX (US)
STAR	BITER	KRYW	LAGO VISTA	TX (US)
STAR	WLEEE (RNAV)	KRYW	LAGO VISTA	TX (US)
STAR	BITER	K3R9	LAKEWAY	TX (US)
STAR	WLEEE (RNAV)	K3R9	LAKEWAY	TX (US)
STAR	RODIO (RNAV)	KSAT	SAN ANTONIO	TX (US)
STAR	RODIO (RNAV)	KSKF	SAN ANTONIO	TX (US)
STAR	RODIO (RNAV)	KSSF	SAN ANTONIO	TX (US)
STAR	BITER	KHYI	SAN MARCOS	TX (US)
STAR	WLEEE (RNAV)	KHYI	SAN MARCOS	TX (US)
STAR	RODIO (RNAV)	KRND	UNIVERSAL CITY	TX (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATED FAC FROM HISTORY STATUS
UPDATED FIX USE

DEVELOPED BY: **DATE:** 07/26/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HOUSTON APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: TRINITY VOR/DME **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 293246.84N/0944451.05W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	TRINITY	MHF	VOR/DME	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	E	MHF	VOR/DME	080.00	260.00	R	1		2000	14000	4	13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	200' AAO	293457.00N/0944130.00W	214	2C

REMARKS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

265 KTS HOLDING PATTERN CHECKED AT ATC REQUEST FOR MILITARY AND NASA (PAT 1).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 32			K54T	BAYTOWN	TX (US)
IAP	ILS OR LOC RWY 14			KGLS	GALVESTON	TX (US)
IAP	VOR RWY 14			KGLS	GALVESTON	TX (US)
IAP	ILS OR LOC RWY 17R			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 22			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 35L			KEFD	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 04			KHOU	HOUSTON	TX (US)
IAP	ILS RWY 4 (CAT II/III)			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 04			KHOU	HOUSTON	TX (US)
IAP	VOR/DME RWY 35			KHOU	HOUSTON	TX (US)
IAP	ILS OR LOC RWY 09			KIAH	HOUSTON	TX (US)
IAP	VOR-B		1	KLVJ	HOUSTON	TX (US)
STAR	GILCO			KCXO	HOUSTON	TX (US)
STAR	RIICE			KCXO	HOUSTON	TX (US)
STAR	GILCO			KDWH	HOUSTON	TX (US)
STAR	RIICE			KDWH	HOUSTON	TX (US)
STAR	RIICE			KHOU	HOUSTON	TX (US)
STAR	GILCO			KIAH	HOUSTON	TX (US)
STAR	RIICE			KIAH	HOUSTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 10/25/2007

REASON FOR REVISION:
FIX USE UPDATED.
ADDED 200K PATTERN TO PATTERN 1 DATA.
DELETED PAT 2.

DEVELOPED BY: **DATE:** 04/05/2007 **OFFICE:** AVN-120 **NAME:** DEANNA FIELDS

APPROVED BY: **DATE:** 08/14/2007 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: IAH APP CON
OTHER: HOU APP CON

QUALITY 2 CHECKED

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry Strout, Manager, Terminal Procedures & Charting Services, Central Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

ILS OR LOC RWY 14, AMDT 12
RNAV (GPS) RWY 14, AMDT 1
RNAV (GPS) RWY 18, AMDT 2
RNAV (GPS) RWY 32, AMDT 1
RNAV (GPS) RWY 36, AMDT 1
VOR RWY 14, AMDT 4

Estimated Chart Date: 01/10/2013

Runway Numbers are affected with the airport rotation; 13/31 change to 14/32 and 17/35 change to 18/36.

Please publish these changes in the National Flight Data Digest.

TEXAS

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Galveston	Scholes Intl at Galveston	Airport	KGLS / GLS	Old 6 ° East New 2 ° East	2015
Galveston		ILS	GLS	Old 6 ° East New 2 ° East	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (405) 954-5070

Cc:AVJ-3rf
AJV-353; LStrout;sbj;x7537;7/31/12: U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Change Request for Galveston, TX (KGLS) 7-31-12
Requestor:BBerubee, AJV-353 Evaluated By:LFortier

CONCURRENCES

ROUTING SYMBOL	INITIALS/SIG	DATE
AJV-34 SBaker		
AJV-353 JOlson		
AJV-353 LStrout		
AJV-341 JAlfonso		