Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 01/26/2012	Task #: 2012012629013801002	Request #: 20120126290138
Procedure: RNAV (GPS) Y RWY 31 AMDT 2		Airport ID: KHRL	**Airport:** VALLEY INTL		Reimbursable #:
City: HARLINGEN	**ST:** TX	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID: HRL	**Fac. Type:** Proc-S	**Specialist:** NICHOLAS JACKSON			P1

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	04/18/2012	07/24/2012	STEVEN SZUKALA	
QA:	07/24/2012	07/24/2012	STEVEN SZUKALA	
Liaison:	07/24/2012		K. Spurlin	P1

Procedure Comments: ENROUTE **Remark Type:** INFORMATION PKG 2 of 5

HARLINGEN, TX VALLEY INTL (KHRL) RNAV (GPS) Y RWY 31, AMDT 2 ENROUTE-YES FC BY 9/18/12 PUB 11/15/12

ATTACHED FORMS: 8260-3, 8260-9, 8260-10
8260-2(S): AMAPE, REV 2; BEBSE, REV 2; CAKOB, REV 2; MC ALLEN (MFE) VOR/DME, REV 7 (INFO ONLY); RELAX INT, REV 11.

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

WAAS	APP CRS	Rwy Idg	7257
CH 82530	311°	THRE	36
W31A		Apt Elev	36

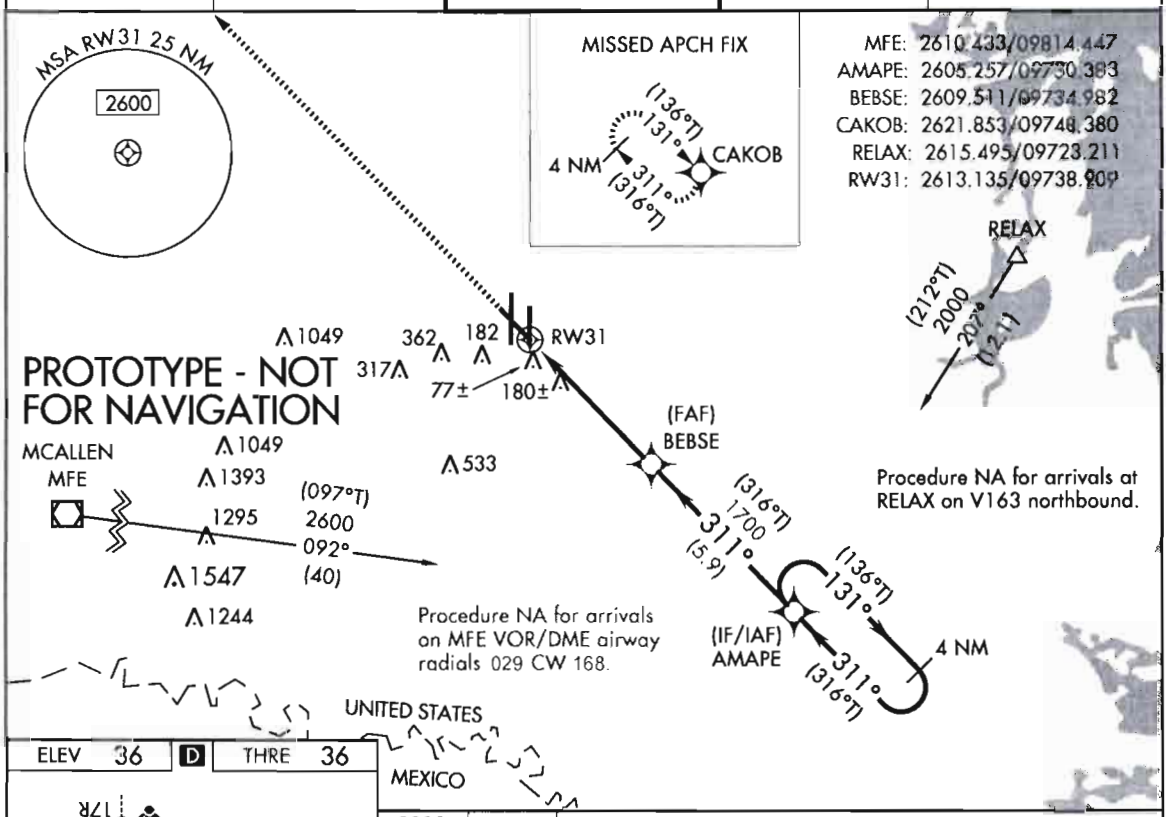
RNAV (GPS) Y RWY 31

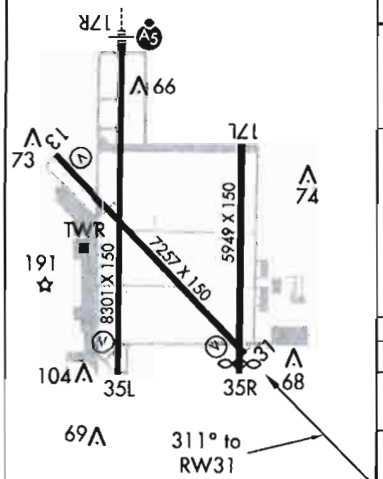
HARLINGEN/ VALLEY INTL (HRL)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats and LNAV Cats C/D ⅛ mile, Circling Cat D visibility ¼ mile. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

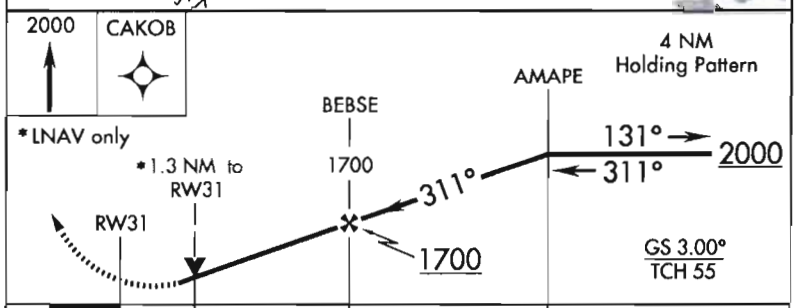
MISSED APPROACH: Climb to 2000 direct CAKOB and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 239.0	119.3 (CTAF) L 317.6	121.7	122.95

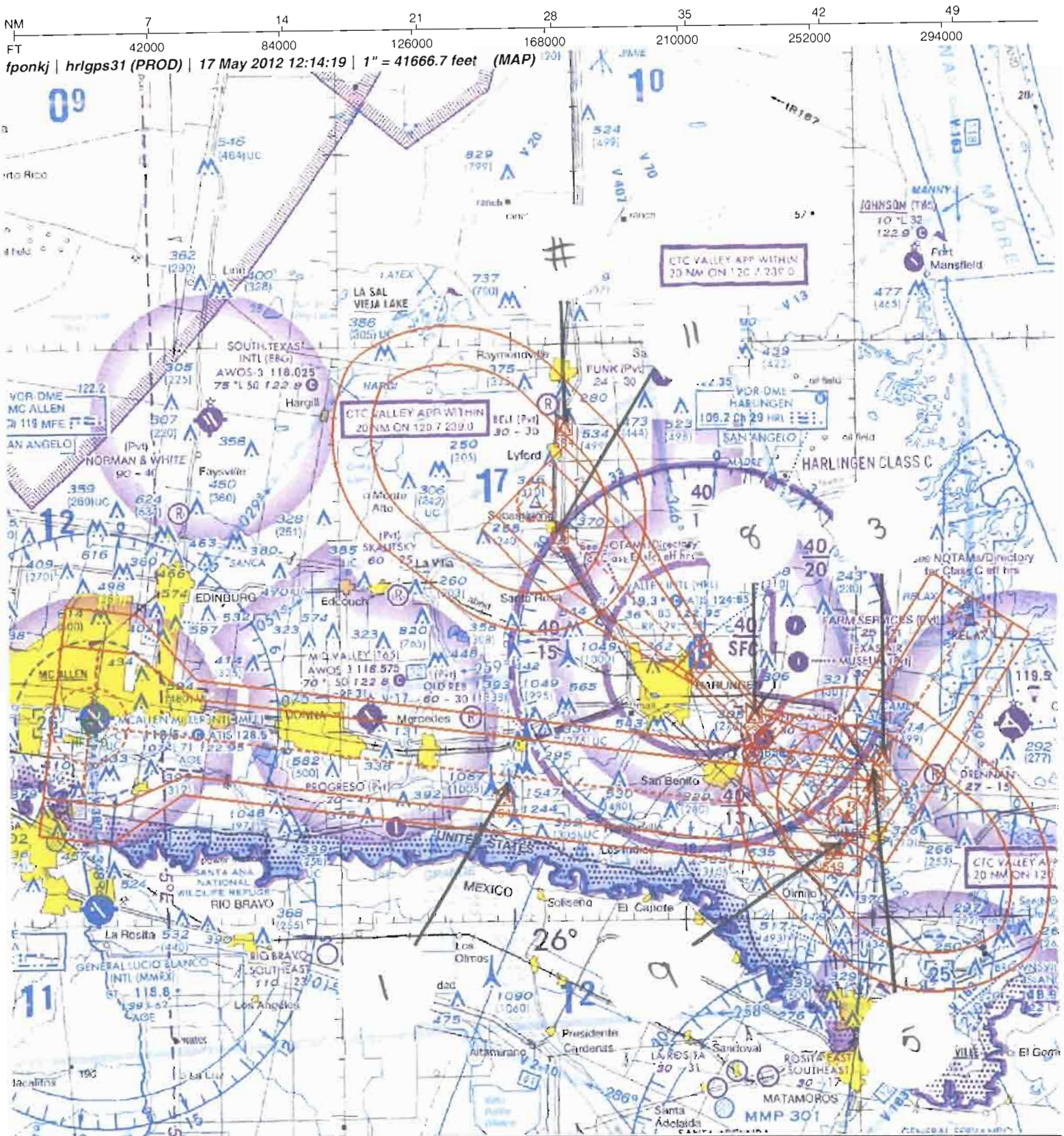




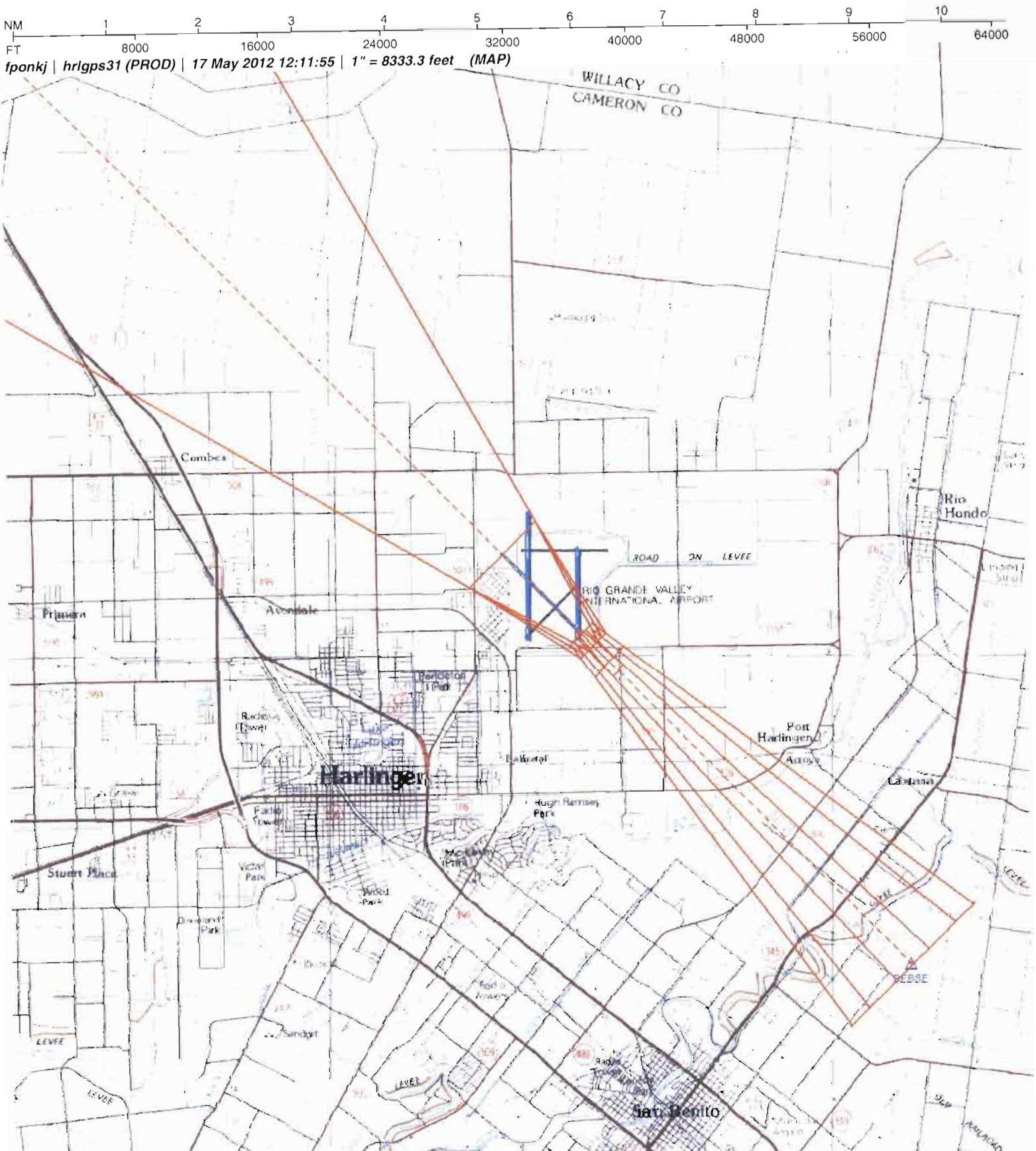
HIRL Rwy 17R-35L
REIL Rwys 13 and 17L
MIRL Rwys 13-31 and 17L-35R



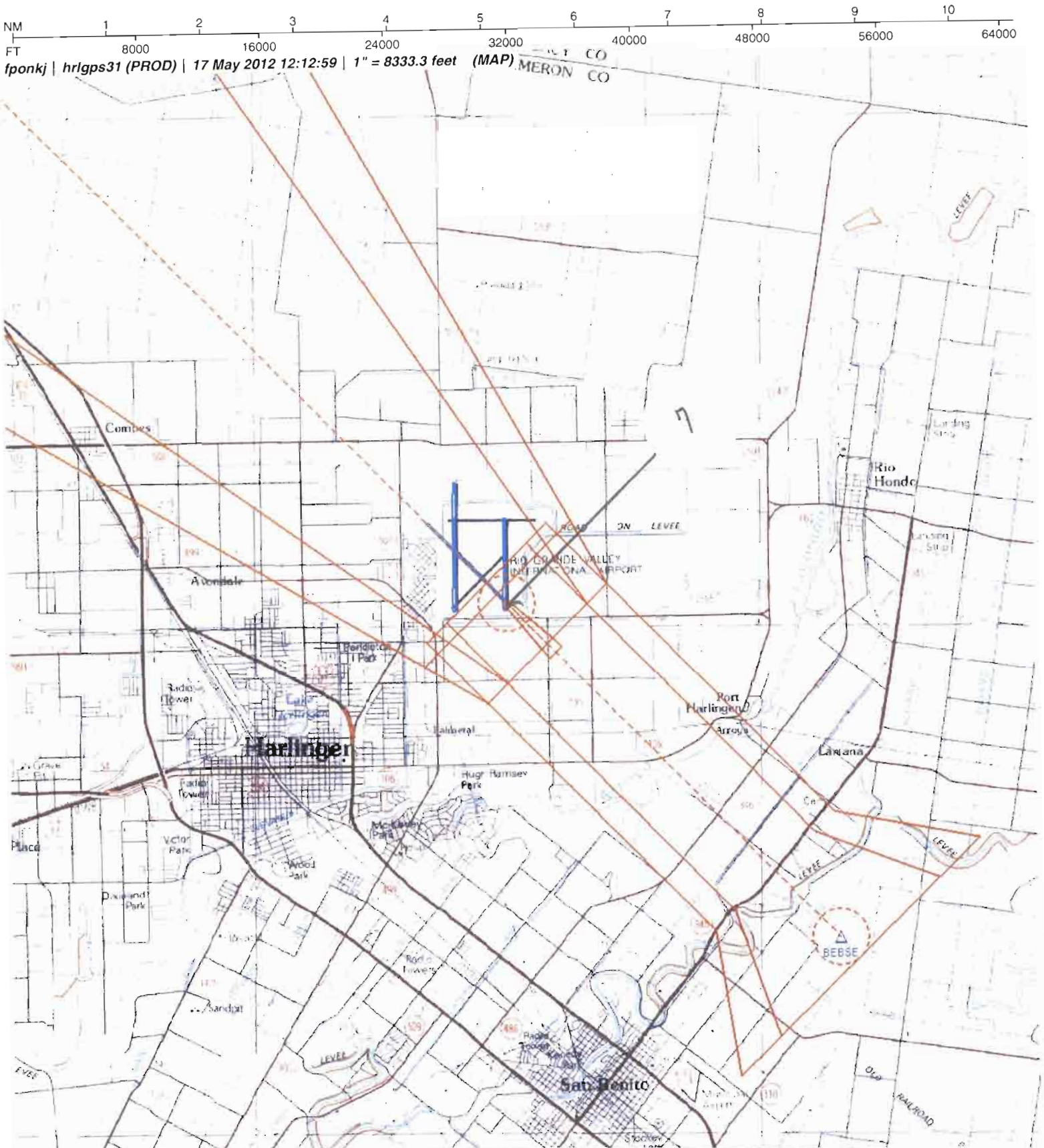
CATEGORY	A	B	C	D
LPV DA	256-¾ 250 (300-¾)			
LNAV/VNAV DA	256-¾ 250 (300-¾)			
LNAV MDA	500-1 464 (500-1)		500-1⅜ 464 (500-1⅜)	
CIRCLING	500-1 464 (500-1)		500-1½ 464 (500-1½)	680-2 644 (700-2)



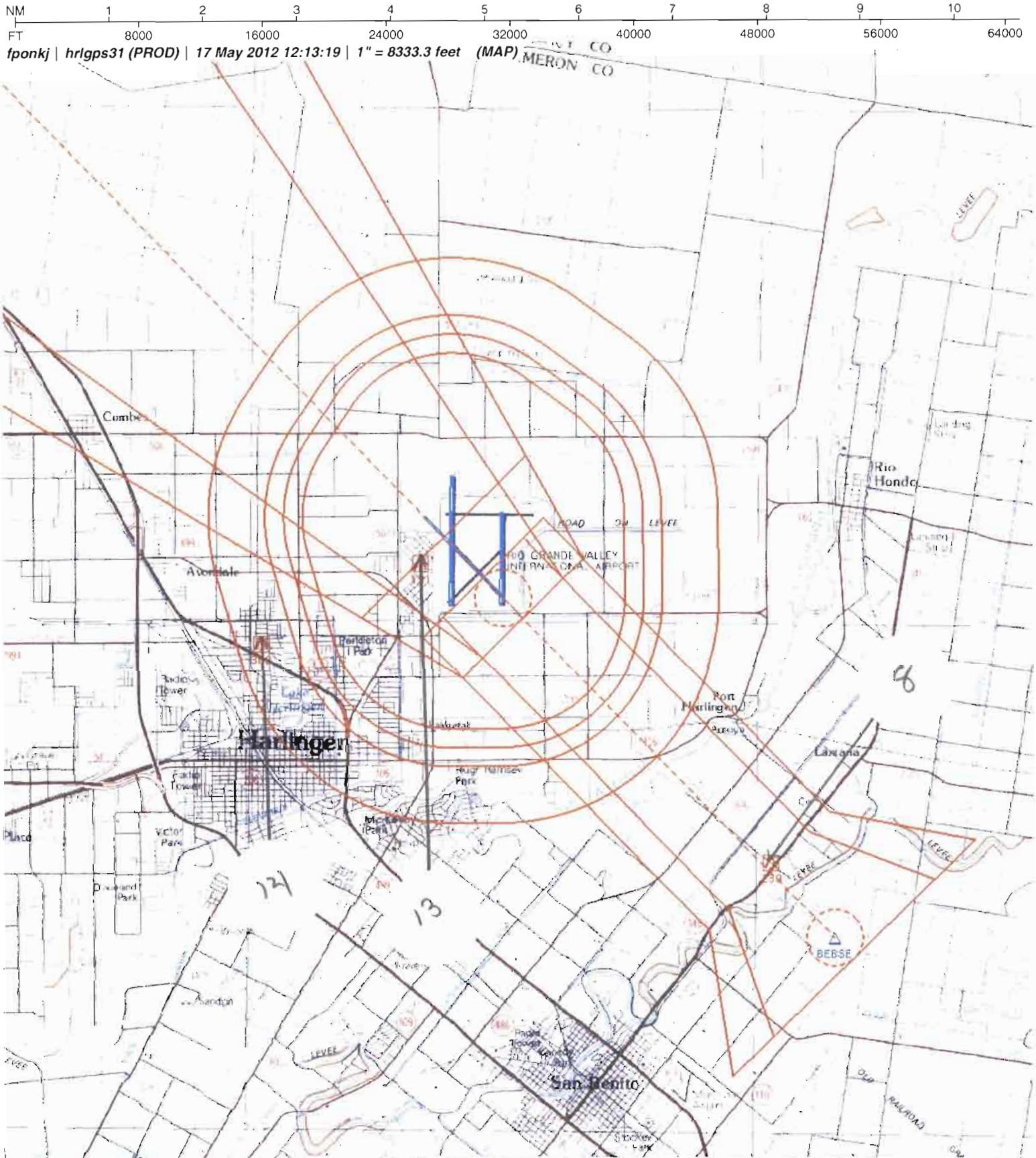
Airport ID:	KHRL	FM 9			
Apt Name:	VALLEY INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	HARLINGEN	1	FEEDER	TOWER	1547
State:	TX	3	FEEDER	TOWER	514
Scale:	1:500,000	5	INTERMEDIATE	TOWER	320
ProcID:	RNAV (GPS) Y RWY 31	8	LNAV FINAL	AAO	239
Amdt.	2	9	HOLD-IN-LIEU	TOWER	549
		11	MISSED	TOWER	370
		#	HOLDING	TOWER	534



Airport ID:	KHRL	FM 9			
Apt Name:	VALLEY INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	HARLINGEN		LPV FINAL	ASC	
State:	TX				
Scale:	1:100,000				
ProcID:	RNAV (GPS) Y RWY 31				
Amdt.	2				



Airport ID:	KHRL	FM 9			
Apt Name:	VALLEY INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	HARLINGEN	7	LNAV/VNAV FINAL	RW31	36
State:	TX				
Scale:	1:100,000				
ProcID:	RNAV (GPS) Y RWY 31				
Amdt.	2				



Airport ID:	KHRL	FM 9			
Apt Name:	VALLEY INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	HARLINGEN	8	LNAV FINAL	AAO	239
State:	TX	13	CIRCLE A/B/C	TANK	191
Scale:	1:100,000	14	CIRCLE D	TOWER	362
ProcID:	RNAV (GPS) Y RWY 31				
Amdt.	2				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MFE VOR/DME	AMAPE (FO)	092.25 / 39.99	2600
RELAX	AMAPE (FO)	207.32 / 12.08	2000
AMAPE (IF/IAF)	BEBSE (FB)	310.71 / 5.93	1700
BEBSE (FAF)	RW31 (MAP) (FO)	310.66 / 5.05	
RW31 (MAP)	286 MSL	310.66	
286 MSL	CAKOB (FO)		2000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

CLIMB TO 2000 DIRECT CAKOB AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE AMAPE, RT, 310.71 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 310.66 FAF: BEBSE DIST FAF TO MAP: 5.05 THLD: 5.05
4. MIN. ALT: AMAPE 2000, BEBSE 1700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1700 GS ALT AT: BEBSE 1700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR
8. MSA FROM: RW31 2600

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 130.56 INBOUND.
FAS OBST: 239 AAO 261014N/0973544W
DISTANCE TO THLD FROM 250 HATH: 0.61 NM.
CHART VDP AT 1.29 MILES TO RW31*
*LNAV ONLY.
WAAS CHANNEL # 82530
REFERENCE PATH ID: W31A
LTP HAE: -11.8 M

MAG VAR: 5E EPOCH YEAR: 2005

MINIMUMS

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

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
LPV DA	286	3/4	250	286	3/4	250	286	3/4	250	286	3/4	250			
LNAV/VNAV DA	286	3/4	250	286	3/4	250	286	3/4	250	286	3/4	250			
LNAV MDA	500	1	464	500	1	464	500	1 3/8	464	500	1 3/8	464			
CIRCLING	500	1	464	500	1	464	500	1 1/2	464	680	2	644			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND (SEE FORM 8260-10)

CITY AND STATE	ELEVATION: 36 THRE: 36 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HARLINGEN, TX	VALLEY INTL	RNAV	RNAV (GPS) Y RWY 31, AMDT 2	AMDT: 1A
				DATED 09/20/2012

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]	[X] **ZHU, VALLEY APP CON, HRL TOWER, AMGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
JILL OLSON (NICHOLAS K. JACKSON)	**AJV-353**	**05/14/2012**

APPROVED BY

NAME:		FIFO	DATE:
LARRY H STROUT	**MANAGER**	**AJV-353**	

CHANGES:

1. ADDED LPV MINIMUMS.
2. FAC CHANGED FROM 310.67 TO 310.66.
3. DIST FAF TO THLD CHANGED FROM 4.98 TO 5.05.
4. LNAV/VNAV DA/HATH CHANGED FROM 320/284 TO 286/250 AND VISIBILITY FOR ALL CATS CHANGED FROM 1 TO 3/4.
5. LNAV MDA/HATH CHANGED FROM 480/444 TO 500/464, CAT C VISIBILITY CHANGED FROM 1 1/4 TO 1 3/8, AND CAT D VISIBILITY CHANGED FROM 1 1/2 TO 1 3/8.
6. ADDED NOTE "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F)".
7. ADDED ALTERNATE MINIMUMS.
8. AMENDED PROCEDURE ENTRY RESTRICTION NOTE FOR ARRIVALS AT MFE VOR/DME.
9. DELETED NOTE "GPS OR RNP -0.3 REQUIRED".
10. ADDED NOTE "VISIBILITY REDUCTION BY HELICOPTERS NA".
11. ADDED BACKUP ALTIMETER AND ASSOCIATED ADJUSTMENTS.
12. VDP CHANGED FROM 1.2 NM TO 1.3 NM.

REASONS:

1. IAW AFS-400 MEMORANDUM DTD NVO 18, 2010.
2, 3. 8260.54A L-V RNP PFAF FORMULA APPLIED.
4, 5. NEW CONTROLLING OBSTRUCTION AND IAW 8250.3B CHNG 20 TABLE 3-5A.
6. IAW 8260.19E CHAP 4 SEC 5 PARA 4-97.
7. IAW 8260.19E CHAP 8 PARA 8-53(B)1.
8. TURNS AT NAVAID EXCEED 90 DEGREES.
9. NOTE NO LONGER REQUIRED.
10. IAW 8260.19E PARA 8-54(I)3.
11. IAW 8260.19E PARA 8-54(L)A1.
12. LNAV MDA RAISED.

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):
INCREASE ALL DA 42 FEET AND ALL MDA 60 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/8 MILE, CIRCLING CAT D VISIBILITY 1/4 MILE.
CHART NOTE: BARO-VNAV AND VDP NA WITH PORT ISABEL ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RELAX ON V163 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MFE VOR/DME AIRWAY RADIALS 029 CW 168.

CITY AND STATE	ELEVATION: 36 THRE: 36 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HARLINGEN, TX	VALLEY INTL	RNAV	RNAV (GPS) Y RWY 31, AMDT 2	AMDT: 1A
				DATED: 09/20/2012

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

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:

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHRL
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	261308.0925N
LTP/FTP LONGITUDE	0973854.5485W
LTP/FTP ELLIPSOIDAL HEIGHT	-00118
FPAP LATITUDE	261411.9700N
FPAP LONGITUDE	0974003.8400W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	B08BB989

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00109
FPAP ORTHOMETRIC HEIGHT	+00109

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

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:

REASONS:

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        MFE   K4011720VDHW N26102595W098142683    N26102595W098142683E0090001002     NARMC ALLEN

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AMAPE K40    W     N26051540W097302296                    E0043     NAR           AMAPE
        SUSAEAENRT   BEBSE K40    W     N26093064W097345890                    E0044     NAR           BEBSE
        SUSAEAENRT   CAKOB K40    W     N26215116W097482279                    E0045     NAR           CAKOB
        SUSAEAENRT   RELAX K40    C   L N26152969W097231266                    E0043     NAR           RELAX

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4AHRL     0     083YHN26133760W097391850E005000036         1800018000C    MNAR    VALLEY INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4FR31-Y AMFE   010MFE  K4D 0V       IF                                          18000                A JS
        SUSAP KHRLK4FR31-Y AMFE   020AMAPEK4EA0EY   020TF                    09230400    + 02600                       A JS
        SUSAP KHRLK4FR31-Y AMFE   030AMAPEK4EA0EE AR   HF                    31070040    + 02000                       A JS
        SUSAP KHRLK4FR31-Y ARELAX 010RELAXK4EA0E      IF                                          18000                A JS
        SUSAP KHRLK4FR31-Y ARELAX 020AMAPEK4EA0EY   020TF                    20730121    + 02000                       A JS
        SUSAP KHRLK4FR31-Y ARELAX 030AMAPEK4EA0EE AR   HF                    31070040    + 02000                       A JS
        SUSAP KHRLK4FR31-Y R      010AMAPEK4EA0E  I    IF                                + 02000     18000             A JS
        SUSAP KHRLK4FR31-Y R      020BEBSEK4EA1E  F 051TF                    31070059    + 01700              RW31  K4PGA JS
        SUSAP KHRLK4FR31-Y R      020BEBSEK4EA2WALPV       ALNAV/VNAV ALNAV                                            JS
        SUSAP KHRLK4FR31-Y R      030RW31 K4PG0GY M 031TF                    31070051      00091          -300          A JS
        SUSAP KHRLK4FR31-Y R      040         0  M     CA                    3107        + 00286                       A JS
        SUSAP KHRLK4FR31-Y R      050CAKOBK4EA0EY      DF                                + 02000                       A JS
        SUSAP KHRLK4FR31-Y R      060CAKOBK4EA0EE  R   HM                    13060040    + 02000                       A JS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4GRW31    0072573106 N26130809W097385455+0000    -0011800036000055150R

                1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4PR31-Y RW31 001Y0000W31A0N2613080925W09738545485-001180300N2614119700W0974003840010675053600055OF400500B08BB989
```

CITY AND STATE	ELEVATION: **36** **THRE: 36**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HARLINGEN, TX	AIRPORT NAME: **VALLEY INTL**	**RNAV**	**RNAV (GPS) Y RWY 31, AMDT 2**	AMDT: **1A**
				DATED: **09/20/2012**

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

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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```
        SUSAP KHRLK4PR31-Y RW31 002E      +00109+00109LPV       82530

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4SRW31 K4PG               0   18018002625                                                              M
```

CITY AND STATE	ELEVATION: 36 THRE: 36	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 31, AMDT 2	AMDT: 1A
				DATED: 09/20/2012

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

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

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	MFE	MFE	010		IF		FB					
	MFE	AMAPE	020		TF		FO	2.0	092.3(097.3T)	040.0	AA 02600	
	MFE	AMAPE	030	IAF	HF	R	FO		310.7(315.7T)	004.0	AA 02000	
	RELAX	RELAX	010		IF		FB					
	RELAX	AMAPE	020		TF		FO	2.0	207.3(212.3T)	012.1	AA 02000	
	RELAX	AMAPE	030	IAF	HF	R	FO		310.7(315.7T)	004.0	AA 02000	
		AMAPE	010	FACF	IF		FB				AA 02000	
		BEBSE	020	FAF	TF		FB	0.5	310.7(315.7T)	005.9	AA 01700	
		RW31	030	MAP	TF		FO	0.3	310.7(315.7T)	005.1	AT 00091	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		310.7(315.7T)		AA 00286	
	CAKOB	050		DF		FO				AA 02000	
	CAKOB	060		HM	R	FO		130.6(135.6T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MFE	N261025.95	W0981426.83	N2610.433	W09814.447
	AMAPE	N260515.40	W0973022.96	N2605.257	W09730.383
	BEBSE	N260930.64	W0973458.90	N2609.511	W09734.982
	CAKOB	N262151.16	W0974822.79	N2621.853	W09748.380
	RELAX	N261529.69	W0972312.66	N2615.495	W09723.211
	RW31	N261308.09	W0973854.55	N2613.135	W09738.909

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31	00036	55

CITY AND STATE	ELEVATION: **36** THRE: **36** / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HARLINGEN, TX	**VALLEY INTL**	**RNAV**	**RNAV (GPS) Y RWY 31, AMDT 2**	AMDT: **1A**
				DATED: **09/20/2012**

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

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	MFE VOR/DME	AMAPE	1. TOWER (48-004005)	260602.00N/0975021.00W	1547 (1A)	1000		2600
			2. TERRAIN	261207.00N/0981353.00W	131 (100)		AS1500	1600
FEEDER	RELAX	AMAPE	3. TOWER (48-011678)	260755.00N/0972819.00W	514 (2D)	1000	AT486	2000
			4. TERRAIN	260633.00N/0973042.00W	33 (0)		AS1500	1500
INTERMEDIATE	AMAPE (IF/IAF)	BEBSE	5. TOWER (48-002581)	260633.00N/0972845.00W	320 (5D)	500	AT880	1700
			6. TERRAIN	260906.00N/0973524.00W	33 (0)		AS1500	1500
FINAL: LPV	BEBSE	RW31				ASC		286/250
FINAL: LNAV/VNAV	BEBSE	RW31	7. RW31	261359.47N/0973854.55W	36 (1A)	ASC		286/250
FINAL: LNAV	BEBSE	RW31	8. AAO	261013.97N/0973543.83W	239 (2C)	250		500
2. HOLD-IN-LIEU-OF-PT	AMAPE	P-4	9. TOWER (48-007992)	260303.00N/0973111.00W	549 (5D)	1000	AT451	2000
			10. TERRAIN	255915.00N/0972912.00W	53 (100)		AS1500	1600
3. MISSED APPROACH MAP:	DA / DA / RW31	CAKOB				ASC		2000
			11. TOWER (48-010189)	261939.42N/0974700.09W	370 (5D)	1000		1400
ELEV:	96/125/400		12. TERRAIN	262200.00N/0974930.00W	50 (100)		AS1500	1600

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	464	13. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY B	1.5 NM	450	464	13. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY C	1.7 NM	450	464	13. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY D	2.3 NM	550	644	14. TOWER (48-002527)	261234.00N/0974146.00W	362 (1A)	300		680
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW31

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-004005)	231/ 12.5	1547 (1A)	2600					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HARLINGEN, TX	ELEVATION: 36 AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 31, AMDT 2	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
HRL TOWER VALLEY APP CON	N W S	OTHER: ASOS	SOURCE: KHRL / KPIL
	F A A		DISTANCE: 0 / 17.08
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION: 24 / 24
X V H F X U H F H F	LOCATION: KHRL		ADJUSTMENT: 0 / 42

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 17R (PCL)
X	HIRL 17R, 35L
X	MIRL 31, 35R, 13, 17L
X	REIL 13, 17L
	TDZ
	C/LINE
X	OTHER (SPECIFY) VASI-4L 31, 13, 35L

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 17R, 35L
	INSTRUMENT	NPI-G 31, 35R, 13, 17L
7. RUNWAY VISUAL RANGE	APPROACH	17R
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH		
	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 35.7
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.0

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 (NICHOLAS K. JACKSON)	DATE: 05/14/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: 3.00/55.0

RASS PRESSURE PATTERNS SAME
KHRL 36.3FT, KPIL 18.6FT
RA = 41.8.
SEE ATTACHED AIRSPACE LETTER.

TAA NOT DEVLOPED BECAUSE OF CLOSE PROXIMITY OF INTERNATIONAL BORDER WITH MEXICO, RESTRICTED AREAS

AVERAGE VEGETATION HEIGHT IS 50FT PER FPT CHECKLIST

LPV SUFACE; 34:1

LNAV/VNAV SURFACE: 23.44:1

KHRL AND KPIL ARE ON SERVICE A

NO HISTORICAL WEATHER DATA AVAILABLE

ISA DEVIATION STANDARD -30 UTILIZED

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE AND MISSED CONTROLLING OBSTRUCTIONS ARE THE SAME

LPV DA ADJUSTED DUE TO POFZ PENETRATION IDENTIFIED IN IPDS. IAPA UTILIZED FOR PRIMARY CONSTRUCTION OF PROCEDURE, IPDS UTILIZED TO CONFIRM STATE OF POFZ AREA. MIN HATH IS 250' PER 8260.54A PARA 2.18.

POFZ OBSTACLE:
KHRLT004 SIGN 261310N/0973852W 3.30'

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:

34:1
68 POLE (48-004836) 261304.00N/0973843.00W (7.88)

RADIO FIX AND HOLDING DATA RECORD

NAME: AMAPE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 260515.40N/0973022.96W **TYPE:** WP

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

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	SE		WP	130.70	310.70	R		4	2000	6000	4	6
2	SE		WP	130.71	310.71	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-007992)	260303.00N/0973111.00W	549	5D
2	200	TOWER (48-007992)	260303.00N/0973111.00W	549	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 13		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 31		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 13		1	KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 31			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
HOLDING PATTERN 2 ADDED

DEVELOPED BY: **DATE:** 07/11/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HRL ATCT
OTHER: VALLEY APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: BEBSE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 260930.64N/0973458.90W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 31			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
REMOVED KHRL R31 AS FAC 1
FIX MOVED 445.97 FEET SOUTHEAST, COORDINATES UPDATED

DEVELOPED BY: **DATE:** 05/10/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HRL ATCT
OTHER: VALLEY APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: CAKOB **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 262151.16N/0974822.79W **TYPE:** WP

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

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	NW		WP	310.57	130.57	R		4	2000	6000	4	6
2	NW		WP	310.56	130.56	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-004396)	262518.00N/0974641.00W	534	5D
2	200	TOWER (48-004396)	262518.00N/0974641.00W	534	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 13		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 31		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 13			KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 31		1	KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED HOLDING PATTERN 2

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HRL ATCT
OTHER: VALLEY APP CON

QUALITY 1 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MC ALLEN VOR/DME **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 261025.95N/0981426.83W **TYPE:**

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	MC ALLEN	MFE	VOR/DME	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	NW	MFE	VOR/DME	311.00	131.00	L	1		2000	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-012928)	260923.00N/0981905.00W	590	

REASON FOR NONSTANDARD HOLDING:
PAT 1 MEXICO AND US BOUNDARY

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13					(US)
EN ROUTE	V17					(US)
EN ROUTE	V20					(US)
EN ROUTE	V387					(US)
IAP	RNAV (GPS) Y RWY 13		1	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 31		1	KHRL	HARLINGEN	TX (US)
IAP	ILS OR LOC RWY 31			KMFE	MC ALLEN	TX (US)
IAP	VOR RWY 13			KMFE	MC ALLEN	TX (US)
IAP	VOR RWY 31			KMFE	MC ALLEN	TX (US)
IAP	VOR/DME-A			KT65	WESLACO	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 01/13/2011

REASON FOR REVISION:
UPDATED FIX USE.
ADDED IN REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ADDED IN HOLDING RESTRICTION: HOLDING LIMITED TO ESTABLISHED PATTERNS.
UPDATED HOLDING OBSTACLE ID.
CHANGED HOLDING PATTERN CRS INBOUND FROM 134 TO 131.
CHANGED HOLDING PATTERN RAD/CRS/BRG FROM 314 TO 311.

DEVELOPED BY: **DATE:** 08/12/2010 **OFFICE:** AVN-120 **NAME:** MARCELLO SADORRA (MARY LYNNE HOEGSTROM)

APPROVED BY: **DATE:** **OFFICE:** AVN-120 **NAME:** RAY NUSSEAR

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: MFE, CRP
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RELAX **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 261529.69N/0972312.66W **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	BROWNSVILLE	BRO	VORTAC	H	349.21	358.21	20.00	20.00		1700	17500
2	HARLINGEN	HRL	VOR/DME	L	078.03	083.03		14.42		1700	17500

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	N	BRO	VORTAC	349.21	169.21	L	1		2000	14000	4	11
2	N		WP	349.20	169.20	L		4	2000	14000	4	11
3	N		WP	351.21	171.21	L		4	1900	14000	4	11
4	N		WP	353.21	173.21	L		4	2000	14000	4	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
2	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
3	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
4	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 PROVIDE PROTECTION FROM V70
PAT 2 PROVIDE PROTECTION FROM V70
PAT 3 PROVIDE PROTECTION FROM V70
PAT 4 PROVIDE PROTECTION FROM V70.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V163	1, 2				(US)
IAP	ILS OR LOC RWY 13R	1, 2		KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 13R			KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 17		3	KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 17L		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) RWY 35R			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 17R		4	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 31			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 35L			KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 17R		4	KHRL	HARLINGEN	TX (US)
IAP	VOR-A	1, 2	1	KPIL	PORT ISABEL	TX (US)
IAP	VOR/DME-B	1, 2	1	KPIL	PORT ISABEL	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FAC 2 MAG BRG CHANGED FROM 078.02 TO 078.03
FAC 2 TRUE BRG CHANGED FROM 083.02 TO 083.03
FAC 2 DIST FROM FAC CHANGED FROM 14.40 TO 14.42
FAC 1 AND 2 MRA RAISED FROM 1500 TO 1700
PAT 1 MIN HOLDING ALTITUDE RAISED FROM 1600 TO 2000

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/BRO TOWER/HRL TOWER
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HARLINGEN** STATE: **TX**

AIRPORT NAME: **VALLEY INTL** ID: **KHRL**

PROCEDURE: **RNAV (GPS) Y RWY 31** AMDT: **2**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.86**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **315.66**
4. High Terrain in **FINAL** segment containing 1000' point **39**
5. Distance from **THLD** to 1500' point **4.65**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.76**
7. True Course of **FINAL** segment containing 1500' point **315.66**
8. High Terrain in **FINAL** segment containing 1500' point **39**
9. Threshold Coordinates (if straight-in) ... **261308.09N** / **0973854.55W**
10. ARP Coordinates ..... **261337.60N** / **0973918.50W**
11. Runway Approach End and distance furthest from ARP.....RWY **17R**
    Distance **.82** NM
12. FAF Coordinates ..... **260930.64N** / **0973458.90W**
    (Click to Select)

REMARKS: Approach/Drawing attached.