Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/15/2011	Task #: 2011061321613131001	Request #: 20110613216131
Procedure: RNAV (GPS) RWY 18 AMDT 1		Airport ID: KMNZ	Airport: HAMILTON MUNI		Reimbursable #:
City: HAMILTON	ST: TX	GPS #:	Estimated Chart Date: 07/26/2012		FICO #:
Fac ID:	Fac. Type: LPV	Specialist: ANKUR VERMA			

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	12/28/2011	03/06/2012	LONNIE EVERHART	
QA:	03/06/2012	03/08/2012	DAVID PUGLISI	
Liaison:	03/08/2012		Alfonso	

P1

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pkg 1 of 2

HAMILTON, TX HAMILTON MUNI (KMNZ) RNAV (GPS) RWY 18, AMDT 1 (LPV) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BUILT-INT, REV 6; FENIV, REV 1; KUYNU, ORIG; MEZXI, REV 1; ULIGY, REV 2; USXEL, REV 2; (INFO ONLY) GLEN ROSE (JEN) VTAC, REV 5; SONET-INT, REV 2.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

HAMILTON, TEXAS | AL-6984 (FAA) | FIG

RNAV (GPS) RWY 18

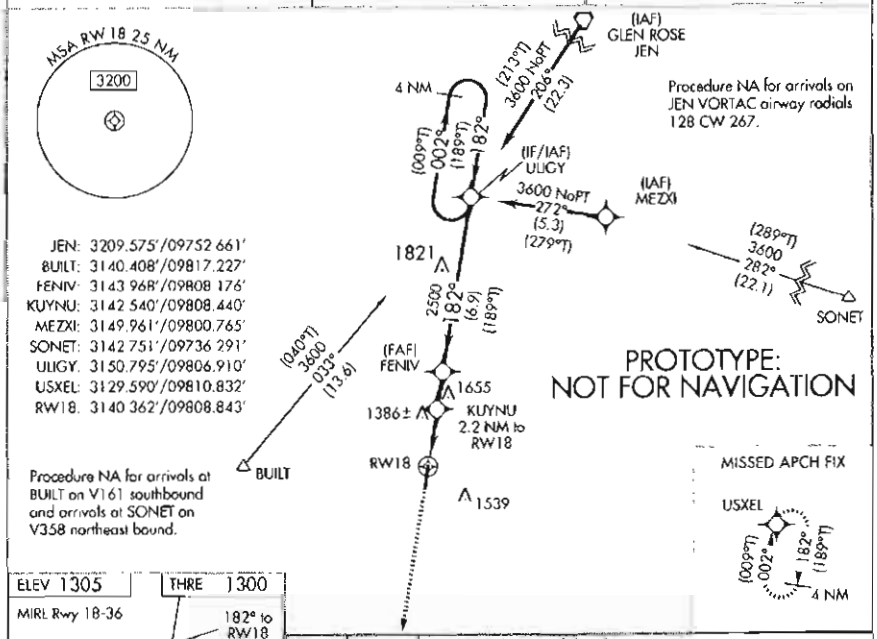
HAMILTON MUNI (MNZ)

WAAS	APP CRS	Rwy Idg	4998
CH 72629	182°	THRE	1300
W18A		Apt Elev	1305

▼ BARO-VNAV NA when using Comanche altimeter setting. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP NA with Comanche altimeter setting. When local altimeter setting not received, use Comanche altimeter setting and increase all DA 75 feet and all visibility ¼ mile. Increase all MDA 80 feet and LNAV Cat C visibility ⅛ mile and Circling Cat C visibility ½ mile.

△ MISSED APPROACH Climb to 3100 direct USXEL and hold.

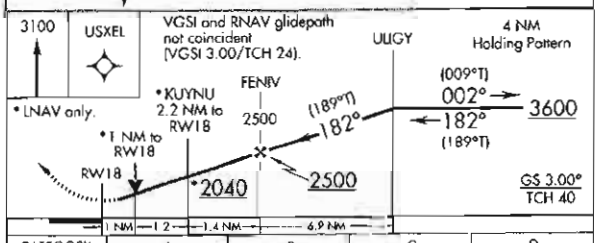
AWOS-3	GRAY APP CON	UNICOM
118.525	120.075 323.15	122.7 (CTAF)



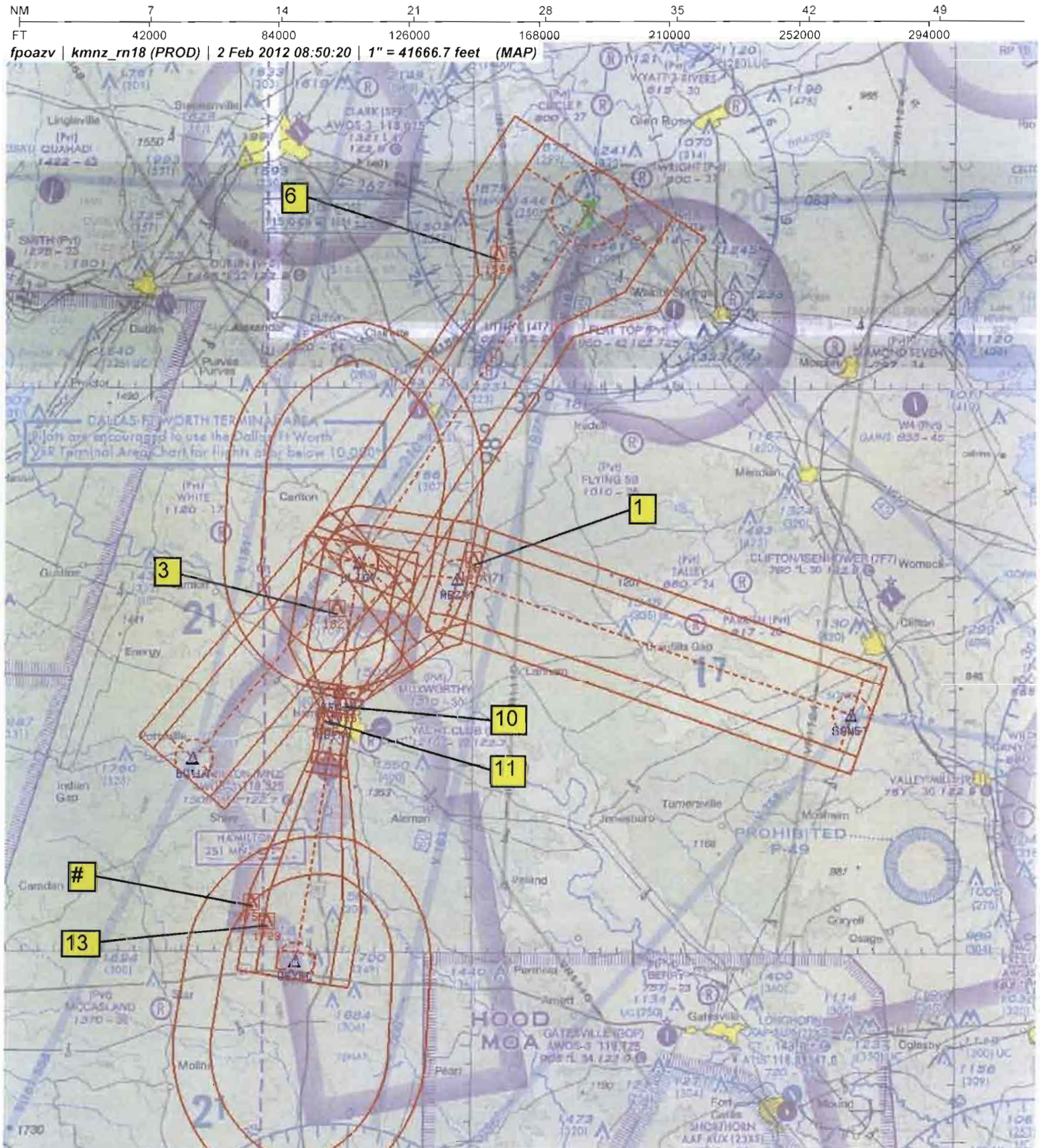
ELEV 1305 | THRE 1300

MIRL Rwy 18-36

182° to RW18

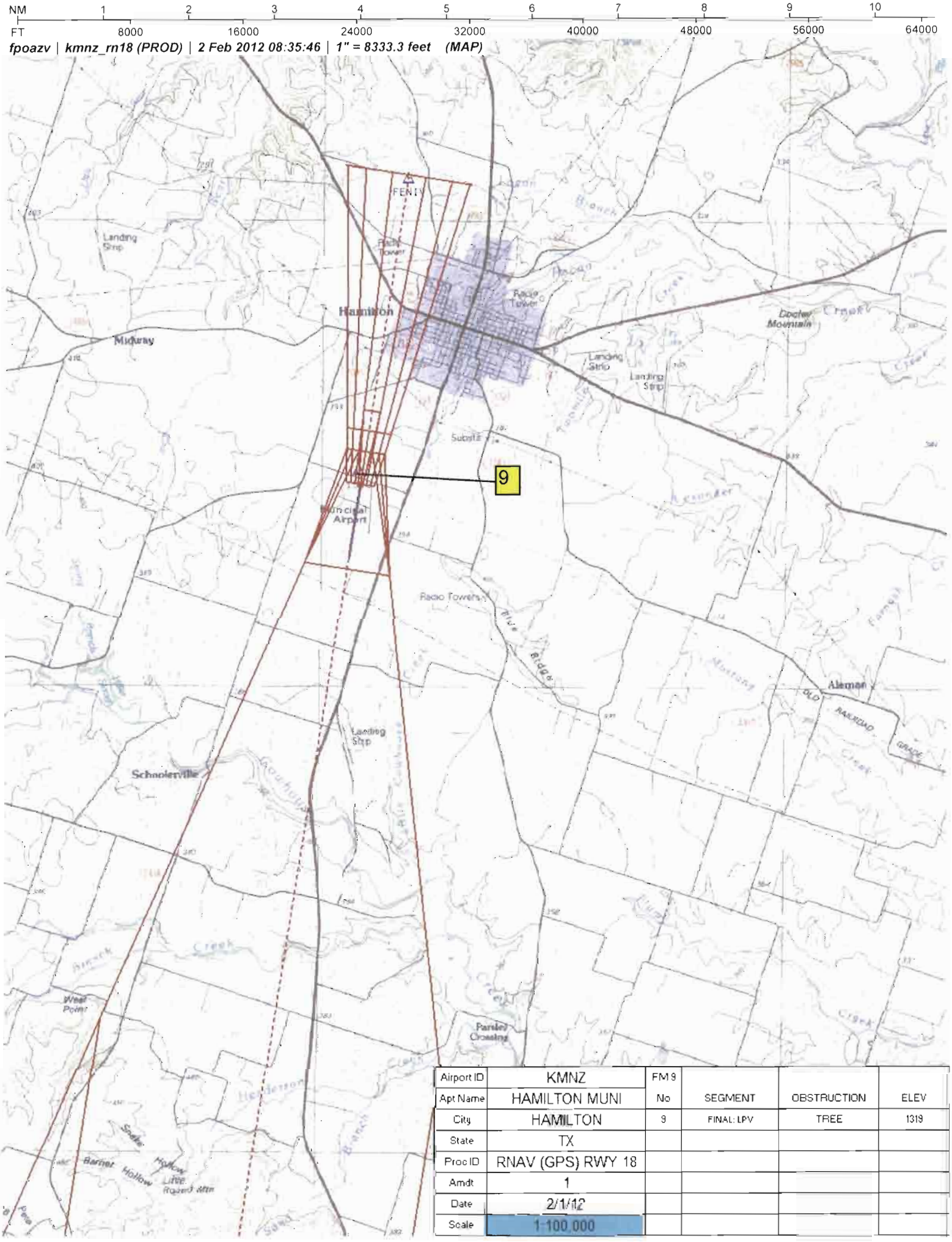


CATEGORY	A	B	C	D
LPV DA	1550-⅞ 250 (300-⅞)			NA
LNAV/VNAV DA	1550-⅞ 250 (300-⅞)			NA
LNAV MDA	1640-1 340 (400-1)			NA
CIRCLING	1680-1 375 (400-1)	1760-1 455 (500-1)	1900-1½ 595 (600-1½)	NA

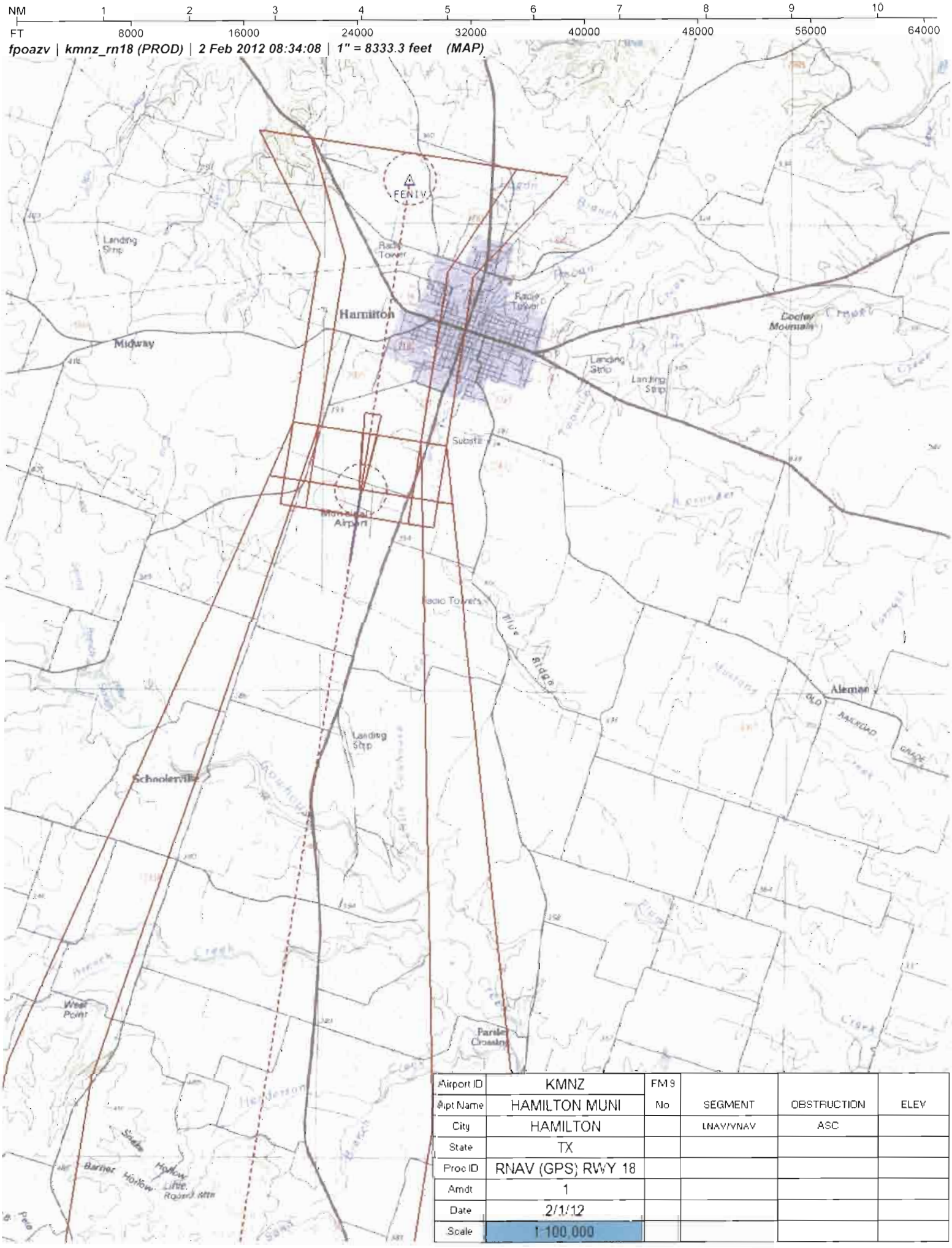


Airport ID	KMNZ
Apt Name	HAMILTON MUNI
City	HAMILTON
State	TX
Proc ID	RNAV (GPS) RWY 18
Amdt	1
Date	2/1/12
Scale	1:500,000

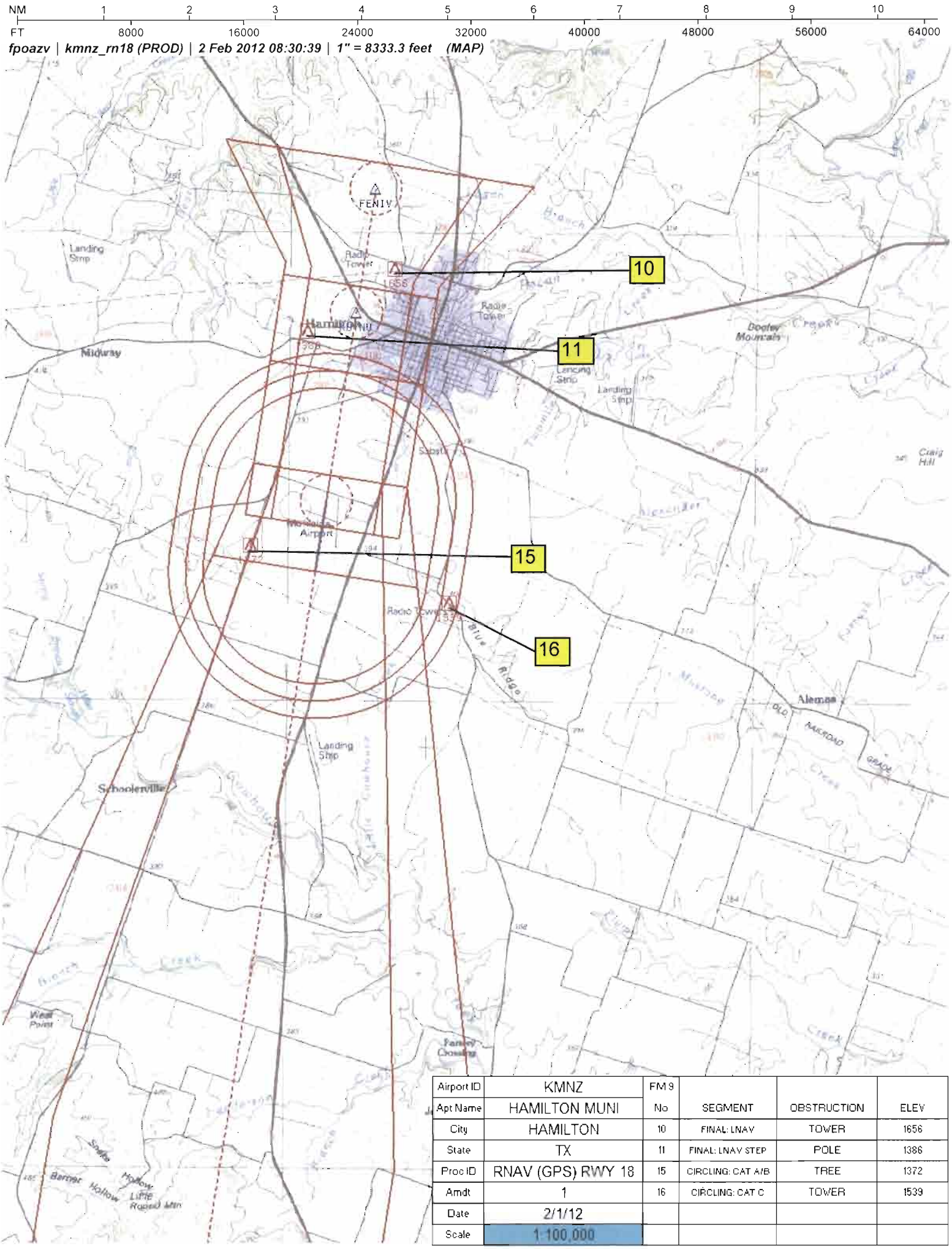
FMS No	SEGMENT	OBSTRUCTION	ELEV
1	FEEDER/INITIAL	AAO	1571
3	FEEDER/INTERM/HIL	TOWER	1821
6	INITIAL	AAO	1594
10	FINAL: LNAV	TOWER	1656
11	FINAL: LNAV STEP	POLE	1386
13	MISSED: LVL SFC	AAO	1729
#	MISSED: HOLD	AAO	1755



Airport ID	KMNZ	FM 9			
Apt Name	HAMILTON MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City	HAMILTON	9	FINAL: LPV	TREE	1319
State	TX				
Proc ID	RNAV (GPS) RWY 18				
Amdt	1				
Date	2/1/12				
Scale	1:100,000				



Airport ID	KMNZ	FM9			
Apt Name	HAMILTON MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City	HAMILTON		LNAV/VNAV	ASC	
State	TX				
Proc ID	RNAV (GPS) RWY 18				
Amdt	1				
Date	2/1/12				
Scale	1:100,000				



Airport ID	KMNZ	FM 9			
Apt Name	HAMILTON MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City	HAMILTON	10	FINAL: LNAV	TOWER	1656
State	TX	11	FINAL: LNAV STEP	POLE	1386
Proc ID	RNAV (GPS) RWY 18	15	CIRCLING: CAT A/B	TREE	1372
Amdt	1	16	CIRCLING: CAT C	TOWER	1539
Date	2/1/12				
Scale	1:100,000				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
SONET	MEZXI (FB)	282.13 / 22.07	3600
BUILT	ULIGY (FO)	033.27 / 13.59	3600
MEZXI (IAF)	ULIGY (NOPT) (FB)	272.06 / 5.30	3600
JEN VORTAC (IAF)	ULIGY (NOPT) (FB)	205.95 / 22.32	3600
ULIGY (IF/IAF)	FENIV (FB)	182.01 / 6.90	2500
FENIV (FAF)	KUYNU/2.20 NM TO RW18 (FB)	182.00 / 1.44	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

CLIMB TO 3100 DIRECT USXEL AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 001.97 INBOUND.
CHART FAS OBST: 1386 POLE 314214N/0980906W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
CHART VDP AT 0.99 MILES TO RW18*
*LNAV ONLY.
WAAS CHANNEL # 72629
REFERENCE PATH ID: W18A
LTP HAE: 369.6 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD N ULIGY, RT, 182.01 INBOUND, 3600 FT. IN LIEU OF PT (IAF)
3. FAC: 182.00 FAF: FENIV DIST FAF TO MAP: 3.64 THLD: 3.64
4. MIN. ALT: ULIGY 3600, FENIV 2500, KUYNU/2.20 NM TO RW18 2040*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2500 GS ALT AT: FENIV 2500 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM: RW18 3200

MAG VAR: 7E EPOCH YEAR: 1995

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	1550	7/8	250	1550	7/8	250	1550	7/8	250		NA				
LNAV/VNAV DA	1550	7/8	250	1550	7/8	250	1550	7/8	250		NA				
LNAV MDA	1640	1	340	1640	1	340	1640	1	340		NA				
CIRCLING	1680	1	375	1760	1	455	1900	1 1/2	595		NA				

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING COMANCHE ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	AMDT: ORIG
				DATED 12/17/2009

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **ZFW, GRK APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
JILL OLSON (ANKUR VERMA)	**AJV-353**	**01/27/2012**

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

CHANGES:

1. TERMINAL ROUTE SONET TO MEZXI CRS/DIST CHANGED FROM 280.15/22.25 TO 282.13/22.07.
2. TERMINAL ROUTE BUILT TO PESPE CHANGED TO BUILT TO ULIGY.
3. TERMINAL ROUTE MEZXI TO ULIGY CRS/DIST CHANGED FROM 272.07/5.00 TO 272.06/5.30.
4. TERMINAL ROUTE JEN VORTAC TO ULIGY CRS/DIST CHANGED FROM 205.21/22.98 TO 205.95/22.32.
5. TERMINAL ROUTE ULIGY TO FENIV CRS/DIST CHANGED FROM 182.02/6.20 TO 182.01/6.90.
6. TERMINAL ROUTE ADDED STEPDOWN FIX KUYNU.
7. PROFILE SECTION LINE 2 CRS CHANGED FROM 182.02 TO 182.01.
8. PROFILE SECTION LINE 3 FAC CHANGED FROM 182.01 TO 182.00 AND DIST FAF TO MAP/THLD CHANGED FROM 3.61/3.61 TO 3.64/3.64.
9. PROFILE SECTION LINE 4 ADDED STEPDOWN FIX KUYNU.
10. PROFILE SECTION LINE 6 ADDED MIN GS INCPT 2500 AND GS ALT AT FENIV 2500.
11. PROFILE SECTION LINE 7 ADDED GS ANGLE 3.00 AND TCH 40.
12. MINIMUMS SECTION ADDED LPV AND LNAV/VNAV MINIMA.
13. MINIMUMS SECTION LNAV MDA/HATH CHANGED FROM 1960/661 TO 1640/340 AND CAT C VISIBILITY CHANGED FROM 1 3/4 TO 1.
14. MINIMUMS SECTION CIRCLING MDA CHANGED FROM 1960/661 ALL CATS TO 1680/375 CAT A, 1760/455 CAT B, 1900/595 CAT C AND VISIBILITY CAT C CHANGED FROM 1
SEE 8260-10

REASONS:

1, 4. PER CURRENT EVALUATION DUE TO MOVEMENT OF ULIGY IF/IAF.
2. PER CENTRAL FPT AND AT REQUEST DUE TO AIRSPACE ISSUES.
3, 5. PER CURRENT EVALUATION AND EXTENDED DUE TO DTA REQUIRED LEG LENGTH.
6. PER 8260.3B PAR 288C.
7. PATTERN CRS CHANGED TO ALIGN WITH IF/IAF TO FAF COURSE.
8. PER CURRENT EVALUATION AND PER 8260.54A FORMULA 2-17B.
9. PER 8260.19D PAR 852D.
10. PER 8260.19D PAR 852F.
11. PER 8260.19D PAR 852G.
12. PER CENTRAL FPT REQUEST DUE TO THE ADDITION OF ANALPV SURVEY.
13. PER STEPDOWN FIX KUYNU ADDITION.
14. PER CURRENT EVALUATION AND DUE TO THE LOWERED LNAV MINIMUMS RESULTING FROM THE ADDITION OF A STEPDOWN FIX AND ANALPV SURVEY AND 8260.3B TABLE 3-10.
15. PER 8260.19D PAR 497, PAR 854 N(1), 852 D(1), 855 E(9), 855 E(8).
16. PER 8260.19D PAR 805 G(2), PER CURRENT EVALUATION.
SEE 8260-10

QUALITY 9 CHECKED

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
KUYNU/2.20 NM TO RW18	RW18 (MAP) (FO)	182.00 / 2.20	
RW18 (MAP)	1550 MSL	182.00	
1550 MSL	USXEL (FO)		3100

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BUILT ON V161 SOUTHBOUND AND ARRIVALS AT SONET ON V358 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON JEN VORTAC AIRWAY RADIALS 128 CW 267.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY
CHART NOTE: VDP NA WITH COMANCHE ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COMANCHE ALTIMETER SETTING AND INCREASE ALL DA 75 FEET AND ALL VISIBILITY 1/4 MILE. INCREASE ALL MDA 80 FEET AND LNAV CAT C VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/2 MILE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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.
3/4 TO 1 1/2. 15. NOTES SECTION ADDED UNCOMPENSATED BARO-VNAV NOTE, VGSI AND RNAV GLIDEPATH NOT COINCIDENT, ASTERISK LNAV ONLY, VDP NA WITH COMANCHE ALTIMETER SETTING, AND BARO-VNAV NA WHEN USING COMANCHE ALTIMETER NOTE. 16. NOTES SECTION CHANGED NOTE FROM PROCEDURE NA FOR ARRIVALS AT BUILT VIA V161 SOUTHBOUND TO PROCEDURE NA FOR ARRIVALS AT BUILT ON V161 SOUTHBOUND AND ARRIVALS AT SONET V358 NORTHEAST BOUND, AND CHANGED LOCAL ALTIMETER SETTING NOTE TO REFLECT CURRENT LNAV VISIBILITIES. 17. MISSED APPROACH SECTION ADDED LPV AND LNAV/VNAV. 18. ADDTL FLIGHT DATA SECTION CHANGED CLEARANCE LIMIT HOLD CRS FROM 001.98 TO 001.97. 19. ADDTL FLIGHT DATA SECTION CHANGED FAS OBST FROM 1655 TOWER TO 1386 POLE. 20. ADDTL FLIGHT DATA SECTION ADDED VDP, ASTERISK LNAV ONLY, WAAS CHANNEL, REFERENCE PATH ID, LTP HAE AND DISTANCE TO THLD FROM 250 HATH. 21. ADDTL FLIGHT DATA SECTION DELETED VDA FENIV TO RW18: 3.03/40.

REASONS:

REASONS CONT.
17. MISSED APPROACHES ADDED PER LPV AND LNAV/VNAV MINIMA ADDED.
18. PER CURRENT EVALUATION.
19. PER CURRENT EVALUATION AND 8260.19D PAR 857D.
20. PER 8260.19D PAR 857 R(1), 857 R(3), 857 L(3), AND 857 L(2).
21. VDA NOT USED DUE TO PRECISION/VERTICAL PATH PROCEDURE.

PDF EDITS:
1. TERMINAL ROUTE FENIV TO KUYNU ADDED (FAF) DESCRIPTOR.
2. TERMINAL ROUTE FENIV TO KUYNU DELETED ALTITUDE.
3. 8260-10 TERMINAL ROUTE 1550 MSL TO ULIGY CHANGED ALTITUDE FROM 1550 TO 3100.
4. 8260-10 SEGMENT RECORD DELETED 020 FROM HM LEG IN COLUMNS 45 THROUGH 47.
5. 8260-10 FLIGTH INSPECTION SUMMARY RNP VALUE 2.0 DELETED FROM HM LEG.

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMNZ
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	314021.7505N
LTP/FTP LONGITUDE	0980850.5890W
LTP/FTP ELLIPSOIDAL HEIGHT	+03696
FPAP LATITUDE	313853.5500N
FPAP LONGITUDE	0980906.9000W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6C2D0447

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03963
FPAP ORTHOMETRIC HEIGHT	+03963

QUALITY 9 CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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:

REASONS:

QUALITY CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        JEN   K4011500VTLW N32093452W097523965    N32093452W097523965E0060013001     NARGLEN ROSE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUILT K40    R   L N31402445W098171363                      E0048     NAR           BUILT
        SUSAEAENRT   FENIV K40    W     N31435806W098081055                      E0047     NAR           FENIV
        SUSAEAENRT   KUYNU K40    W     N31423241W098082641                      E0047     NAR           KUYNU
        SUSAEAENRT   MEZXI K40    W     N31495764W098004590                      E0046     NAR           MEZXI
        SUSAEAENRT   SONET K40    R   L N31424504W097361745                      E0044     NAR           SONET
        SUSAEAENRT   ULIGY K40    W     N31504770W098065457                      E0047     NAR           ULIGY
        SUSAEAENRT   USXEL K40    W     N31293541W098104994                      E0047     NAR           USXEL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4AMNZ     0     049YHN31395730W098085510E007001305         1800018000C    MNAR    HAMILTON MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4FR18   ABUILT 010BUILTK4EA0E       IF                                                18000                A JS
        SUSAP KMNZK4FR18   ABUILT 020ULIGYK4EA0EY   020TF                    03330136    + 03600                            A JS
        SUSAP KMNZK4FR18   ABUILT 030ULIGYK4EA0EE AR   HF                    18200040    + 03600                            A JS
        SUSAP KMNZK4FR18   AJEN   010JEN  K4D 0V  A    IF                                                18000                A JS
        SUSAP KMNZK4FR18   AJEN   020ULIGYK4EA0EE B 010TF                    20600223    + 03600                            A JS
        SUSAP KMNZK4FR18   ASONET 010SONETK4EA0E       IF                                                18000                A JS
        SUSAP KMNZK4FR18   ASONET 020MEZXIK4EA0E  A 020TF                    28210221    + 03600                            A JS
        SUSAP KMNZK4FR18   ASONET 030ULIGYK4EA0EE B 010TF                    27210053    + 03600                            A JS
        SUSAP KMNZK4FR18   R      010ULIGYK4EA0E  I    IF                                + 03600     18000                  A JS
        SUSAP KMNZK4FR18   R      020FENIVK4EA1E  F 051TF                    18200069    + 02500                  RW18  K4PGA JS
        SUSAP KMNZK4FR18   R      020FENIVK4EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP KMNZK4FR18   R      021KUYNUK4EA0E S  031TF                    18200014    V 0204002041        -300           A JS
        SUSAP KMNZK4FR18   R      030RW18 K4PG0GY M 031TF                    18200022      01340             -300           A JS
        SUSAP KMNZK4FR18   R      040         0  M     CA                    1820        + 01550                            A JS
        SUSAP KMNZK4FR18   R      050USXELK4EA0EY      DF                                + 03100                            A JS
        SUSAP KMNZK4FR18   R      060USXELK4EA0EE  R   HM                    00200040    + 03100                            A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: **HAMILTON MUNI**	**RNAV**	**RNAV (GPS) RWY 18, AMDT 1**	AMDT: **ORIG**
				DATED: **12/17/2009**

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:

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.

```
        SUSAP KMNZK4GRW18    0049981820 N31402175W098085059+0000    +0369601300000040075R
                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        SUSAP KMNZK4PR18   RW18 001 0000W18A0N3140217505W09808505890+036960300N3138535500W098090690001067512240004 00F4005006C2D0447
        SUSAP KMNZK4PR18   RW18 002E      +03963+03963LPV       72629
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        SUSAP KMNZK4SRW18 K4PG                0   18018003225                                                                    M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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**

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 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	BUILT	BUILT	010		IF		FB					
	BUILT	ULIGY	020		TF		FO	2.0	033.3(040.3T)	013.6	AA 03600	
	BUILT	ULIGY	030	IAF	HF	R	FO		182.0(189.0T)	004.0	AA 03600	
	JEN	JEN	010	IAF	IF		FB					
	JEN	ULIGY	020		TF		FB	1.0	206.0(213.0T)	022.3	AA 03600	
	SONET	SONET	010		IF		FB					
	SONET	MEZXI	020	IAF	TF		FB	2.0	282.1(289.1T)	022.1	AA 03600	
	SONET	ULIGY	030		TF		FB	1.0	272.1(279.1T)	005.3	AA 03600	
		ULIGY	010	FACF	IF		FB				AA 03600	
		FENIV	020	FAF	TF		FB	0.5	182.0(189.0T)	006.9	AA 02500	
		KUYNU	021	SDF	TF		FB	0.3	182.0(189.0T)	001.4	AA 02040 GS 02041	
		RW18	030	MAP	TF		FO	0.3	182.0(189.0T)	002.2	AT 01340	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		182.0(189.0T)		AA 01550	
	USXEL	050		DF		FO				AA 03100	
	USXEL	060		HM	R	FO		002.0(009.0T)	004.0	AA 03100	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	JEN	N320934.52	W0975239.65	N3209.575	W09752.661
	BUILT	N314024.45	W0981713.63	N3140.408	W09817.227
	FENIV	N314358.06	W0980810.55	N3143.968	W09808.176
	KUYNU	N314232.41	W0980826.41	N3142.540	W09808.440
	MEZXI	N314957.64	W0980045.90	N3149.961	W09800.765
	SONET	N314245.04	W0973617.45	N3142.751	W09736.291
	ULIGY	N315047.70	W0980654.57	N3150.795	W09806.910
	USXEL	N312935.41	W0981049.94	N3129.590	W09810.832
	RW18	N314021.75	W0980850.59	N3140.363	W09808.843

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	01300	40

CITY AND STATE	ELEVATION: 1305 THRE: 1300 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	**HAMILTON MUNI**	**RNAV**	**RNAV (GPS) RWY 18, AMDT 1**	AMDT: **ORIG**
				DATED: **12/17/2009**

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	SONET	MEZXI	1. AAO	315031.40N/0975943.70W	1571 (6A)	1000	AT1029	3600
			2. TERRAIN	315031.40N/0975943.70W	1371 (1400)		AS1500	2900
FEEDER	BUILT	ULIGY	3. TOWER (48-009051)	314758.00N/0980813.00W	1821 (2C)	1000	AT779	3600
			4. TERRAIN	314209.00N/0981824.00W	1421 (1400)		AS1500	2900
INITIAL	MEZXI	ULIGY	1. AAO	315031.40N/0975943.70W	1571 (6A)	1000	AT1029	3600
			5. TERRAIN	315100.00N/0980121.00W	1352 (1400)		AS1500	2900
INITIAL	JEN VORTAC	ULIGY	6. AAO	320644.30N/0975815.20W	1594 (6A)	1000	AT1006	3600
			7. TERRAIN	320641.00N/0975818.00W	1394 (1400)		AS1500	2900
INTERMEDIATE	ULIGY (IF/IAF)	FENIV	3. TOWER (48-009051)	314758.00N/0980813.00W	1821 (2C)	500	AT179	2500
			8. TERRAIN	314433.00N/0980912.00W	1270 (1300)		AS1000	2300
FINAL: LPV	FENIV	RW18	9. TREE (KMNZT0069)	314028.31N/0980851.79W	1319 (1A)	34:1		1550/250
FINAL: LNAV/VNAV	FENIV	RW18				ASC		1550/250
FINAL: LNAV	FENIV	KUYNU/2.20 NM TO RW18	10. TWR (KMNZT0092)	314257.26N/0980754.87W	1656 (1A)	250	DG59 RA75	2040
2. HOLD-IN-LIEU-OF-PT	ULIGY	P-5	3. TOWER (48-009051)	314758.00N/0980813.00W	1821 (2C)	1000	AT779	3600
			12. TERRAIN	315604.20N/0981206.00W	1388 (1400)		AS1500	2900
3. MISSED APPROACH MAP:	DA / DA / RW18	USXEL				ASC		3100
			13. AAO	313118.00N/0981236.00W	1729 (4E)	1000		2800
ELEV:	1363/1400/1540		14. TERRAIN	313118.00N/0981236.00W	1529 (1500)		AS1500	3000

4. CIRCLING AREA	DISTANCE	REQUIRED	ACTUAL							
CATEGORY A	1.3 NM	350	375	15. TREE (KMNZT0110)	313945.77N/0980951.62W	1372 (2C)	300		1680
CATEGORY B	1.5 NM	450	455	15. TREE (KMNZT0110)	313945.77N/0980951.62W	1372 (2C)	300	HAA	1760
CATEGORY C	1.7 NM	450	595	16. TOWER (48-008962)	313906.00N/0980710.00W	1539 (4D)	300	AC50	1900
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW18**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-008358)	231/ 24.6	2130 (5D)	3200					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HAMILTON, TX	ELEVATION: 1305 AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	ASW

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZFW ARTCC GRK APP CON FTW FSS SATISFACTORY ON:	N W S / F A A / A / C — OTHER: AWOS-3	SOURCE: KMNZ / KMKN DISTANCE: 0 / 27.62 HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KMNZ	ADJUSTMENT: 0 / 75

4. MONITOR STATUS

PRIMARY NAVAID:	
MONITOR POINT:	
HRS OPTN: CAT 1	
HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING

	ALS
	(S) SALS
	MALS
	HIRL
X	MIRL 18, 36
	REIL
	TDZ
	C/LINE
X	OTHER (SPECIFY) PSIL 18, 36

6. RUNWAY MARKINGS

BASIC	
ALL WEATHER	
INSTRUMENT	NPI-G 18, 36

7. RUNWAY VISUAL RANGE

APPROACH
MIDFIELD
ROLL OUT

8. GLIDE PATH

GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1299.3
DISTANCE FROM RWY:	ELEV GP ANTENNA:
	THRESHOLD CROSSING HEIGHT: 40.0

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 (ANKUR VERMA)**

DATE: **01/27/2012**

TITLE: **AERONAUTICAL INFORMATION SPECIALIST**

OFFICE: **AJV-353**

PART C - REMARKS:

ACTUAL HIGH TEMP: 90C (194F)

ISA DEVIATION USED: -30C (-22F)

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KMNZ 1304.8, KMKN 1386.6
RA = 74.98.
SEE ATTACHED AIRSPACE LETTER.

VEGETATION HEIGHT: 40 FT PER CENTRAL FPT.

TAA NOT DEVELOPED PER CENTRAL FPT.

TERPS, VOLUME 1, "VISUAL PORITION OF FINAL"
PENETRATIONS:
34:1 RWY 18:
1319 TREE (KMNZT0069) 314028.31N/0980851.79W (6.01)
1318 TREE (KMNZT0063) 314028.11N/0980851.92W (5.65)
1318 TREE (KMNZT0066) 314028.11N/0980851.45W (5.46)
1317 TREE (KMNZT0064) 314028.16N/0980852.21W (4.62)
1317 TREE (KMNZT0070) 314028.30N/0980851.59W (3.96)
1316 TREE (KMNZT0068) 314028.17N/0980850.92W (3.07)
1313 TREE (KMNZT0061) 314027.24N/0980847.59W (1.48)

BACKUP ALTIMETER PUBLISHED AS NOTE.

RWY 18 SURVEY: ANALPV 09/30/2009 THIRD PARTY.

ATC AND CENTRAL FPT REQUEST ALL FEEDERS/INITIALS AT 3600 MSL.

TX DOT REQUESTED CATS A/B/C ONLY.

VGSI DATA: 3.04/25.2.

SLOPES:
LPV: 34:1
LNAV/VNAV: 23.4:1
LNAV/VNAV SECONDARY: 34:1

AVG COLD TEMP DATA NOT AVAILABLE; USED -30C.

KMNZ AND KMKN ON SERVICE-A; 24 HOURS.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV STEPDOWN	KUYNU/2.20 NM TO	RW18	11. POLE (KMNZT0086)	314214.34N/0980905.85W	1386 (1A)	250		1640
	RW18							

3. MISSED APPROACH	
MAP:	
ELEV:	

4. CIRCLING AREA	DISTANCE	REQUIRED	ACTUAL
		HT. ABV. ARPT.	
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HAMILTON, TX	ELEVATION: 1305 AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 18, AMDT 1	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS ☐ FAA ☐ A/C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

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

5. APPROACH & RUNWAY LIGHTING		
	☐	**ALS**
	☐	**(S) SALS**
	☐	**MALS**
	☐	**HIRL**
	☐	**MIRL**
	☐	**REIL**
	☐	**TDZ**
	☐	**C/LINE**
	☐	**OTHER (SPECIFY)**

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

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

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BUILT **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314024.45N/0981713.63W **TYPE:** 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	GLEN ROSE	JEN	VORTAC	L	209.80	215.80	35.84	35.84		3500	17500
2	WACO	ACT	VORTAC	H	262.00	271.00		52.14		5000	17500
3	LLANO	LLO	VORTAC	L	017.98	025.98	58.48	58.48		6000	17500
4	MILLSAP	MQP	VORTAC	H	184.25	193.25	64.73	64.73		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ACT	VORTAC	R-262	53	5000	15100
LLO	VORTAC	R-018	59	5500	17500
MQP	VORTAC	R-184	65	6000	15400

FIX RESTRICTIONS:
MRA V161 6000 NORTHBOUND
SPECIAL RNAV (GPS) RWY 36, K74TE, WALNUT SPRINGS, TX

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

REMARKS:
GLEN ROSE (FAC 1) AND WACO (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V161-568	1, 2, 3, 4			(US)
IAP	LOC RWY 17	1, 2	KBWD	BROWNWOOD	TX (US)
IAP	VOR RWY 17	1, 2	KBWD	BROWNWOOD	TX (US)
IAP	RNAV (GPS) RWY 18		KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		K74TE	WALNUT SPRINGS	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FAC 2 MRA CHANGED FROM 3500 TO 5000 PER ESVMS & FC.
ACT ESV MIN ALTITUDE CHANGED FROM 3500 TO 5000 PER ESVMS & FC.
ADDED REMARK GLEN ROSE (FAC 1) AND WACO (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/24/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FENIV **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314358.06N/0980810.55W **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) RWY 18			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
DELETED RNP CRITERIA APPLIED REMARK.
MOVED FIX 202 FT NORTH DUE TO APPLICATION OF 8260.54A 2-16B.

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KUYNU **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314232.41N/0980826.41W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MEZXI **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314957.64N/0980045.90W **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) RWY 18			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX MOVED 4794 FT NORTHEAST FOR INITIAL LEG LENGTH.

DEVELOPED BY: **DATE:** 01/24/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ULIGY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315047.70N/0980654.57W **TYPE:** WP

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

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	N		WP	002.01	182.01	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-009051)	314758.00N/0980813.00W	1821	2C

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) RWY 18		1	KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		1	KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX MOVED 4433 FT NORTH DUE TO RNAV (GPS) RWY 18 INITIAL LEG DTA.
DELETED PAT 1 310KT PATTERN; CIH NO LONGER NEEDED FOR RNAV 36 MISSED.
PAT 1 CRS INBOUND CHANGED FROM 182.02 TO 182.01 PER CURRENT EVAL.

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: USXEL **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 312935.41N/0981049.94W **TYPE:** WP

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

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	S		WP	181.97	001.97	R		4	3100	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	313219.50N/0981332.80W	1755	6A

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) RWY 18		1	KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		1	KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX MOVED 365 FT NORTH TO SHORTEN INTERMEDIATE SEGMENT LENGTH.
PAT 1 CRS INBOUND CHANGED FROM 001.98 TO 001.97 PER CURRENT EVALUATION.

DEVELOPED BY: **DATE:** 01/27/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: GLEN ROSE VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320934.52N/0975239.65W **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	FAC FEET	MRA	MAA
1	GLEN ROSE	JEN	VORTAC	L							17500

FIX RESTRICTIONS:
SPECIAL RNAV (GPS) RWY 35, KTA25, RANGER, TX

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	E	JEN	VORTAC	095.00	275.00	R	1		3500	6000	4	5
2	S	JEN	VORTAC	196.58	016.58	R	1		3000	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-010157)	321632.00N/0980123.00W	2529	4D
1	200	TOWER (48-002801)	321028.00N/0975307.00W	1577	5D
2	200	AAO	320641.00N/0975818.00W	1594	2A

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3600.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JOE POOL			KGKY	ARLINGTON	TX (US)
DP	KINGDOM			KGKY	ARLINGTON	TX (US)
DP	WORTH			KGKY	ARLINGTON	TX (US)
DP	JOE POOL			KADS	DALLAS	TX (US)
DP	KINGDOM			KADS	DALLAS	TX (US)
DP	WORTH			KADS	DALLAS	TX (US)
DP	COYOTE			KDAL	DALLAS	TX (US)
DP	JOE POOL			KDAL	DALLAS	TX (US)
DP	KINGDOM			KDAL	DALLAS	TX (US)
DP	LOVE			KDAL	DALLAS	TX (US)
DP	VENUS			KDAL	DALLAS	TX (US)
DP	WORTH			KDAL	DALLAS	TX (US)
DP	JOE POOL			KRBD	DALLAS	TX (US)
DP	KINGDOM			KRBD	DALLAS	TX (US)
DP	WORTH			KRBD	DALLAS	TX (US)
DP	JOE POOL			KTKI	DALLAS	TX (US)
DP	KINGDOM			KTKI	DALLAS	TX (US)
DP	WORTH			KTKI	DALLAS	TX (US)
DP	COYOTE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDFW	DALLAS-FORT WORTH	TX (US)
DP	KINGDOM			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	TX (US)
DP	KINGDOM			KDTO	DENTON	TX (US)
DP	WORTH			KDTO	DENTON	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	LAMPS			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	JOE POOL			KAFW	FORT WORTH	TX (US)
DP	KINGDOM			KAFW	FORT WORTH	TX (US)
DP	WORTH			KAFW	FORT WORTH	TX (US)
DP	JOE POOL			KFTW	FORT WORTH	TX (US)
DP	KINGDOM			KFTW	FORT WORTH	TX (US)
DP	WORTH			KFTW	FORT WORTH	TX (US)
DP	JOE POOL			KFWS	FORT WORTH	TX (US)
DP	KINGDOM			KFWS	FORT WORTH	TX (US)
DP	WORTH			KFWS	FORT WORTH	TX (US)
DP	JOE POOL			KNFW	FORT WORTH	TX (US)
DP	KINGDOM			KNFW	FORT WORTH	TX (US)
DP	WORTH			KNFW	FORT WORTH	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	KINGDOM			KGPM	GRAND PRAIRIE	TX (US)
DP	WORTH			KGPM	GRAND PRAIRIE	TX (US)
DP	LAMPS			KILE	KILLEEN	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	KINGDOM			KLNC	LANCASTER	TX (US)

QUALITY CHECKED 9

DP	WORTH1		KLNC	LANCASTER	TX (US)
DP	JOEPOOL		KHQZ	MESQUITE	TX (US)
DP	KINGDOM		KHQZ	MESQUITE	TX (US)
DP	WORTH		KHQZ	MESQUITE	TX (US)
DP	ALAMO		KSAT	SAN ANTONIO	TX (US)
DP	ALAMO		KSSF	SAN ANTONIO	TX (US)
EN ROUTE	V163				(US)
EN ROUTE	V17				(US)
EN ROUTE	V18				(US)
EN ROUTE	V568				(US)
EN ROUTE	V62				(US)
EN ROUTE	V94				(US)
IAP	LOC/DME RWY 15		KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 15		KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 33		KCPT	CLEBURNE	TX (US)
IAP	CONVERGING ILS RWY 18L		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	CONVERGING ILS RWY 18R		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 17C		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 17R		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS RWY 17C (CAT II)		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS RWY 17C (CAT III)		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) RWY 35		K50F	FORT WORTH	TX (US)
IAP	VOR/DME-A		K50F	FORT WORTH	TX (US)
IAP	ILS RWY 35L		KFWS	FORT WORTH	TX (US)
IAP	RNAV (GPS) RWY 14		KGDJ	GRANBURY	TX (US)
IAP	VOR/DME-A		KGDJ	GRANBURY	TX (US)
IAP	RNAV (GPS) RWY 18		KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		KMNZ	HAMILTON	TX (US)
IAP	GPS RWY 31		KMWL	MINERAL WELLS	TX (US)
IAP	RNAV (GPS) RWY 35		KTA25	RANGER	TX (US)
IAP	VOR/DME-A	1	KSEP	STEPHENVILLE	TX (US)
IAP	ILS OR LOC RWY 19		KACT	WACO	TX (US)
IAP	ILS OR LOC RWY 17L		KCNW	WACO	TX (US)
IAP	RNAV (GPS) RWY 17L		KCNW	WACO	TX (US)
STAR	KNEAD		KGKY	ARLINGTON	TX (US)
STAR	KNEAD		KCPT	CLEBURNE	TX (US)
STAR	GLEN ROSE	2	KADS	DALLAS	TX (US)
STAR	KNEAD		KADS	DALLAS	TX (US)
STAR	GLEN ROSE	2	KDAL	DALLAS	TX (US)
STAR	KNEAD		KDAL	DALLAS	TX (US)
STAR	KNEAD		KRBD	DALLAS	TX (US)
STAR	GLEN ROSE	2	KTKI	DALLAS	TX (US)
STAR	KNEAD		KTKI	DALLAS	TX (US)
STAR	CEDAR CREEK		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	GLEN ROSE	2	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JAGGO		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JUMBO		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	SLUGG	2	KDTO	DENTON	TX (US)
STAR	SLUGG	2	KAFW	FORT WORTH	TX (US)
STAR	SLUGG	2	KFTW	FORT WORTH	TX (US)
STAR	KNEAD		KFWS	FORT WORTH	TX (US)
STAR	SLUGG	2	KNFW	FORT WORTH	TX (US)
STAR	KNEAD		KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD		KLNC	LANCASTER	TX (US)
STAR	KNEAD		KHQZ	MESQUITE	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
FIX USE UPDATE.
ADDED FIX RESTRICTIONS DATA.

DEVELOPED BY: **DATE:** 10/20/2010 **OFFICE:** AVN-120 **NAME:** LARRY STROUT (KISSY MAXFIELD)

APPROVED BY: **DATE:** 05/05/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZFW
ATC FACILITY: REGIONAL APP CON
OTHER:

QUALITY 9 CHECKED

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: SONET **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314245.04N/0973617.45W **TYPE:** 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	GOOCH SPRINGS	AGJ	VORTAC	H	036.00	041.00	41.89	41.89		3000	17500
2	WACO	ACT	VORTAC	H	271.00	280.00	17.45	17.45		2700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AGJ	VORTAC	R-036	42	3000	15600

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAMPS	1, 2		KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	LAMPS	1, 2		KGRK	FORT HOOD/KILLEEN	TX (US)
DP	LAMPS	1, 2		KILE	KILLEEN	TX (US)
EN ROUTE	V358	1, 2				(US)
IAP	RNAV (GPS) RWY 18			KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 14			KACT	WACO	TX (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/17/2009

REASON FOR REVISION:
CHANGED FAC 1 FROM LZZ TO AGJ, NAME CHANGE AND MAGVAR UPDATE.
ADDED DME DISTANCE TO FAC 1 AND 2.
UPDATED ESV CHANGED FAC ID FROM LZZ AND CHANGED MAX ALT FROM 17500 TO 15600.
CHANGED ACT TO FAC 2 AND AGJ TO FAC 1 PER 8260.19D 841 F(3).

DEVELOPED BY: **DATE:** 07/06/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (RAKE MCGRAW)

APPROVED BY: **DATE:** **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: ACT ATCT
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HAMILTON** STATE: **TX**

AIRPORT NAME: **HAMILTON MUNI** ID: **KMNZ**

PROCEDURE: **RNAV (GPS) RWY 18** AMDT: **1**

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 **3.01**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.55**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **189.00**
4. High Terrain in **FINAL** segment containing 1000' point **1310**
5. Distance from **THLD** to 1500' point **8.94**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **189.01**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1270**
9. Threshold Coordinates (if straight-in) ... **314021.75N** / **0980850.59W**
10. ARP Coordinates ..... **313957.30N** / **0980855.10W**
11. Runway Approach End and distance furthest from ARP ..... RWY **18**
    Distance **0.41** NM
12. FAF Coordinates ..... **314358.06N** / **0980810.55W**

REMARKS: Approach/Drawing attached.

RADIO FIX AND HOLDING DATA RECORD

CANCELLED

NAME: PESPE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315051.36N/0981250.33W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/17/2009

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED