Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 08/10/2011	Task #: 2011081023032101001	Request #: 20110810230321
Procedure: ILS OR LOC RWY 35 AMDT 1		Airport ID: KAUM	Airport: AUSTIN MUNI		Reimbursable #:
City: AUSTIN	ST: MN	GPS #:		Estimated Chart Date: 04/05/2012	FICO #:
Fac ID: AUM	Fac. Type: ILS	Specialist: JEFF RAWDON(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/12/2011	12/21/2011	CASIMIR TABAKA	
QA:	12/21/2011	12/21/2011	CASIMIR TABAKA	
Liaison:	12/21/2011		Terrell	

PB

Procedure Comments:

Remark Type: INFORMATION

PKS 2 of 2

AUSTIN, MN AUSTIN MUNI (KAUM) ILS OR LOC RWY 35, AMDT 1 ENROUTE-NO FC: 2.21.12 PUB: 4.5.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): DACAB-INT, REV 2; FARUN-INT, REV 3; ROCHESTER (RST) VDME, REV 15; ZEBOG-INT, ORIG; (INFO ONLY) MASON CITY (MCW) VTAC, REV 14.

CONTACT: JOSE ALFONSO/STEVE BARNETT, AJV-353 LEADS, 405.954.6378/9568:

LOC I-AUM	APP CRS	Rwy ldg	5800
110.55	351°	THRE	1231
		Apt Elev	1234

ILS or LOC RWY 35
AUSTIN MUNI (AUM)

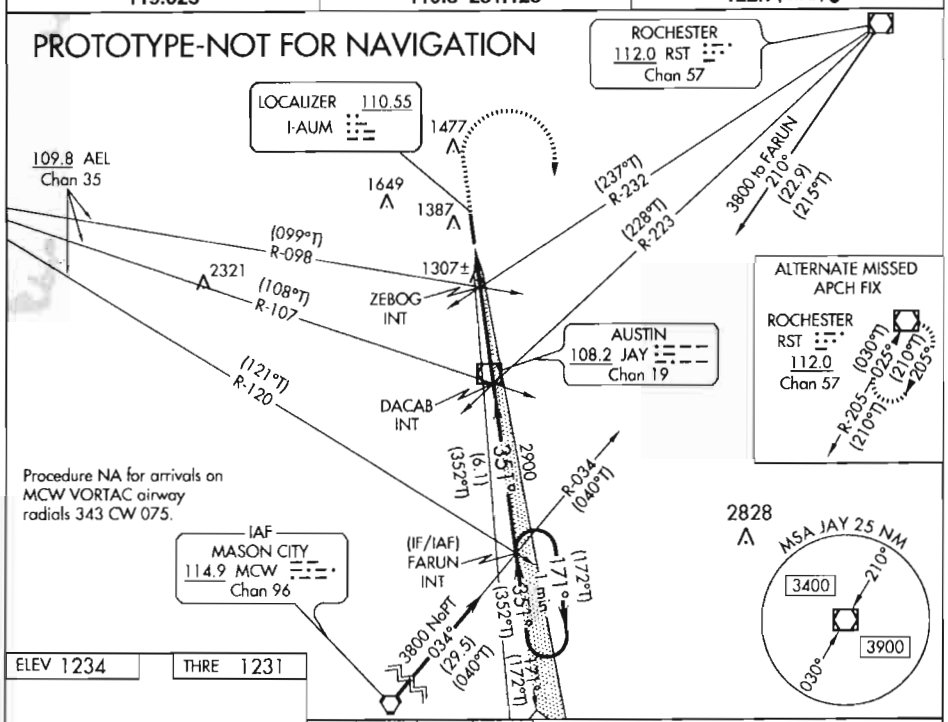
When local altimeter setting not received, use Albert Lea altimeter setting and increase all DA 48 feet and all MDA 60 feet and increase ZEBOG fix minimums S-LOC 35 Cats C and D visibility ⅛ mile. For inoperative MALSR, increase S-LOC 35 Cats C and D visibility to 1⅜ mile.

NA

MALSR

MISSED APPROACH: Climb to 1800 then climbing right turn to 3800 on heading 179° and MCW VORTAC R-034 to FARUN INT and hold.

AWOS-3	ROCHESTER APP CON*	UNICOM
119.025	119.8 251.125	122.7 (CTAF)

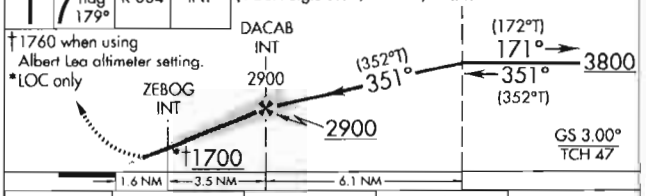


ELEV 1234 THRE 1231

1800	3800	MCW	FARUN
	hdg 179°	R-034	INT

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 42).

†1760 when using Albert Lea altimeter setting.
*LOC only

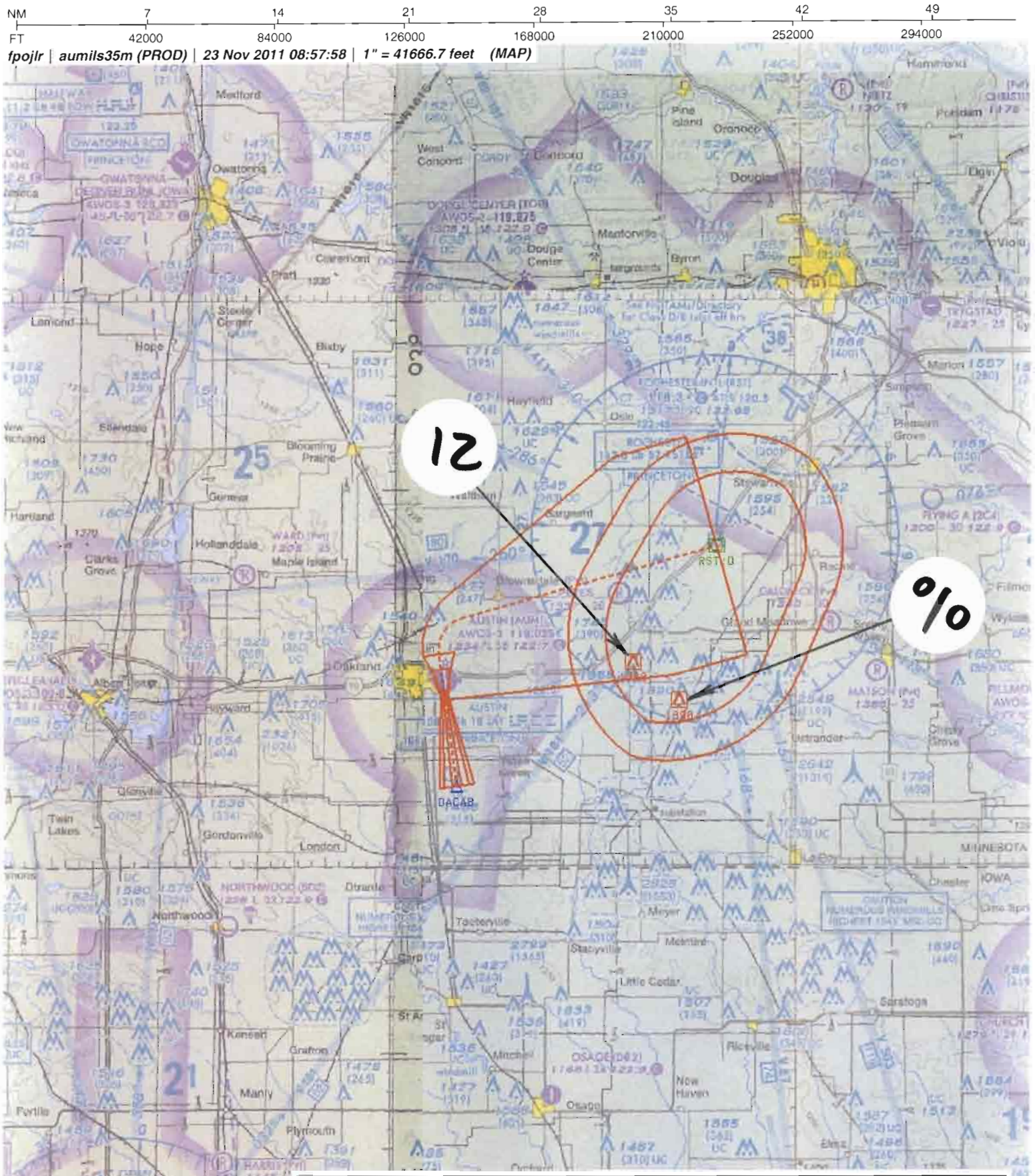


351° 5.1 NM from FAF

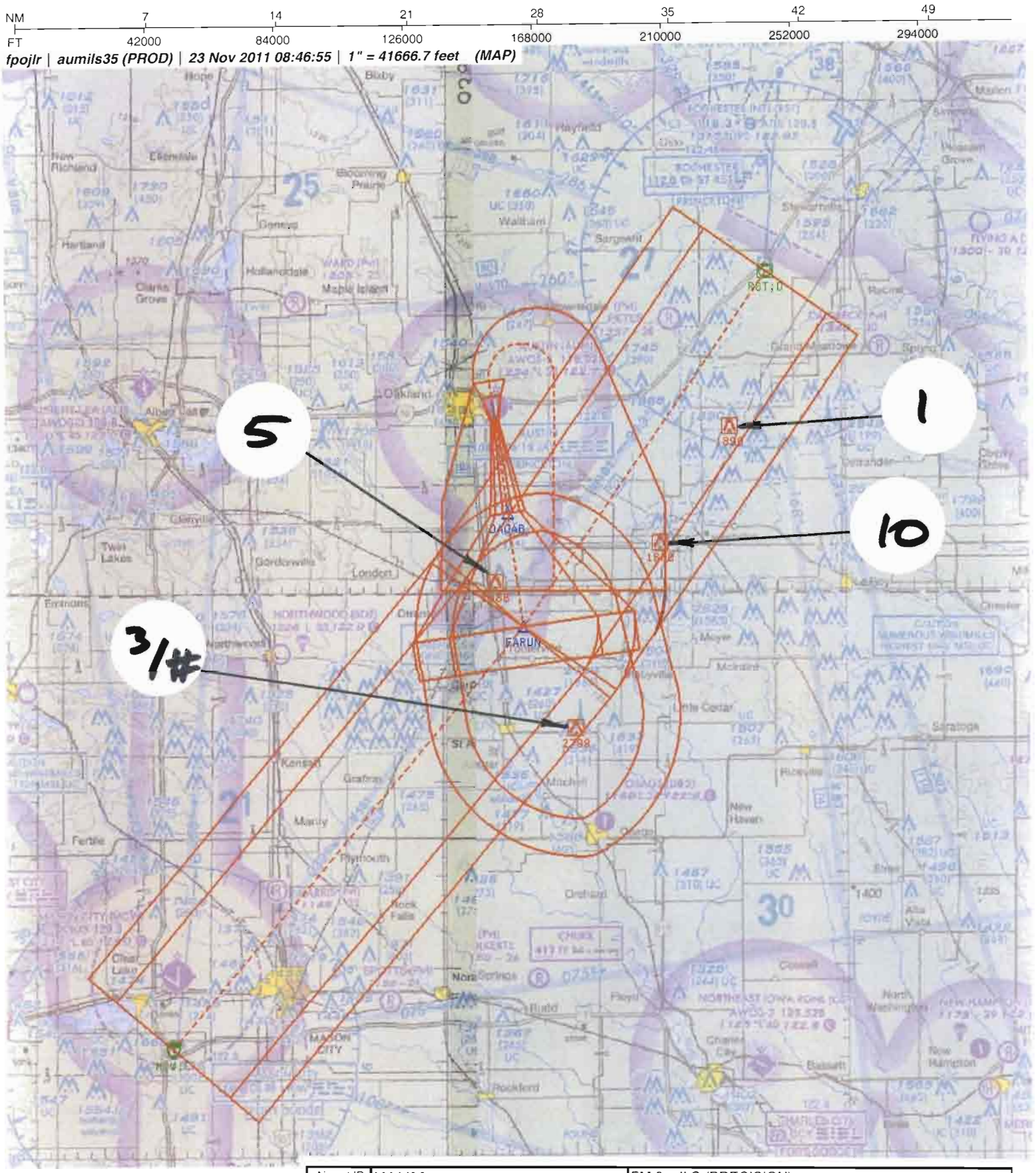
REIL Rwy 17
HIRL Rwy 17-35

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
S-ILS 35	1431-½ 200 (200-½)			
S-LOC 35	1700-½ 469 (500-½)		1700-1 469 (500-1)	
CIRCLING	1740-1 506 (600-1)		1740-1½ 506 (600-1½)	1800-2 566 (600-2)
ZEBOG FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 35	1560-½ 329 (400-½)			
CIRCLING	1740-1 506 (600-1)		1740-1½ 506 (600-1½)	1800-2 566 (600-2)



Airport ID:	KAUM	FM 9 – ALT MISSED APPCH – ILS (PRECISION)			
Apt Name:	AUSTIN MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	AUSTIN		FINAL: ILS	ASC	
State:	MN	12	MISSED APPROACH	TOWER (27-001302)	1868
Scale:	1:500,000	%	HOLDING	TOWER (27-001665)	1890
Proc ID:	ILS OR LOC RWY 35				
Amdt #:	1				



Airport ID:	KAUM
Apt Name:	AUSTIN MUNI
City:	AUSTIN
State:	MN
Scale:	1:500,000
Proc ID:	ILS OR LOC RWY 35
Amdt #:	1

FM 9 – ILS (PRECISION)

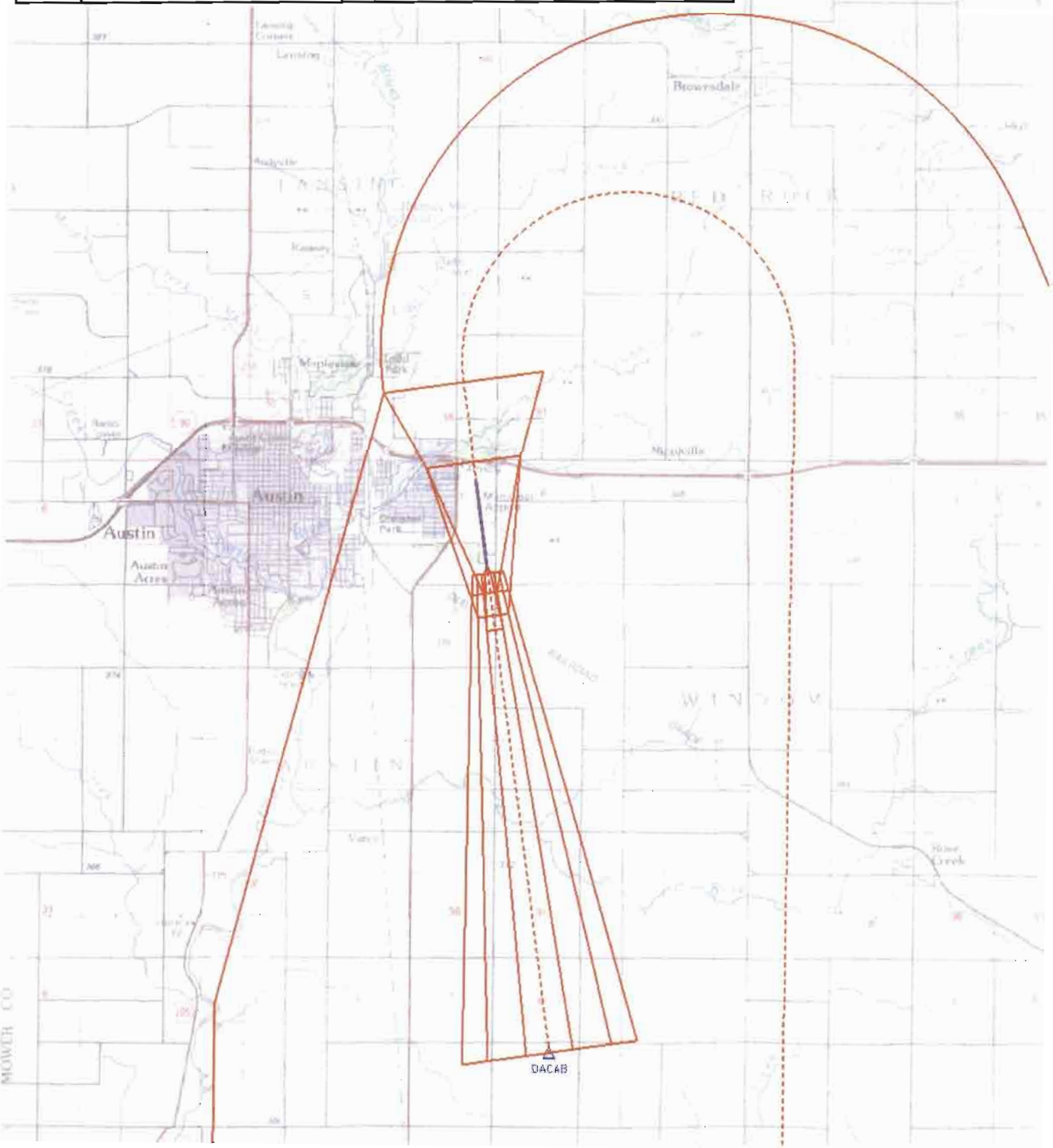
No	SEGMENT	OBSTRUCTION	ELEV
1	FEEDER	TOWER (27-001665)	1890
3	INITIAL / HOLD-IN-LIEU	TOWER (19-000404)	2799
5	INTERMEDIATE	TOWER (27-001879)	1486
	FINAL: ILS	ASC	
10	MISSED APPROACH	WNDML (27-002345)	1680
#	HOLDING	TOWER (19-000404)	2799

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpojlr | aumils35 (PROD) | 23 Nov 2011 08:54:57 | 1" = 8333.3 feet (MAP)

Airport ID:	KAUM	FM 9 – ILS (PRECISION)			
Apt Name:	AUSTIN MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	AUSTIN		FINAL: ILS	ASC	
State:	MN				
Scale:	1:100,000				
Proc ID:	ILS OR LOC RWY 35				
Amdt #:	1				

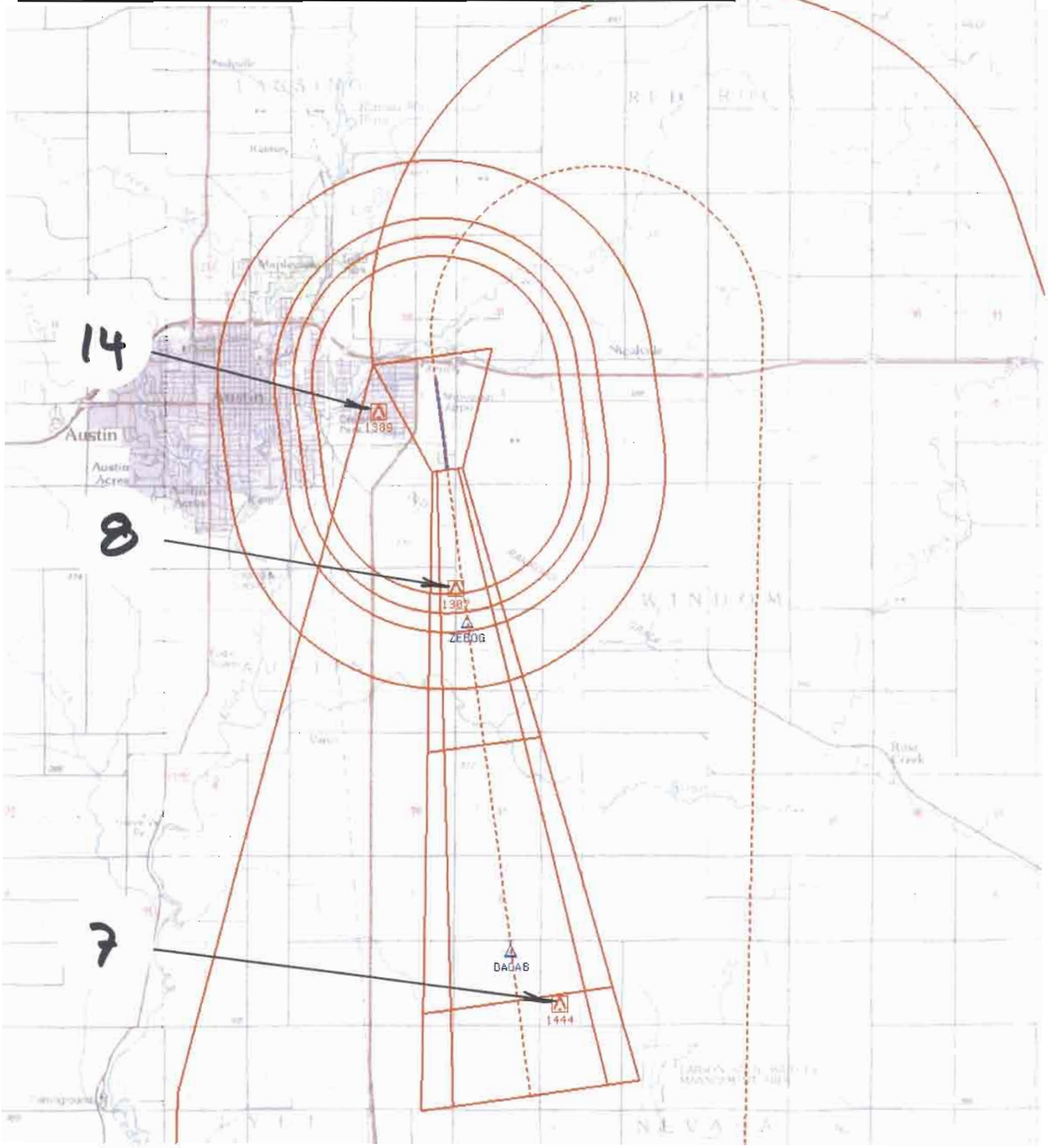


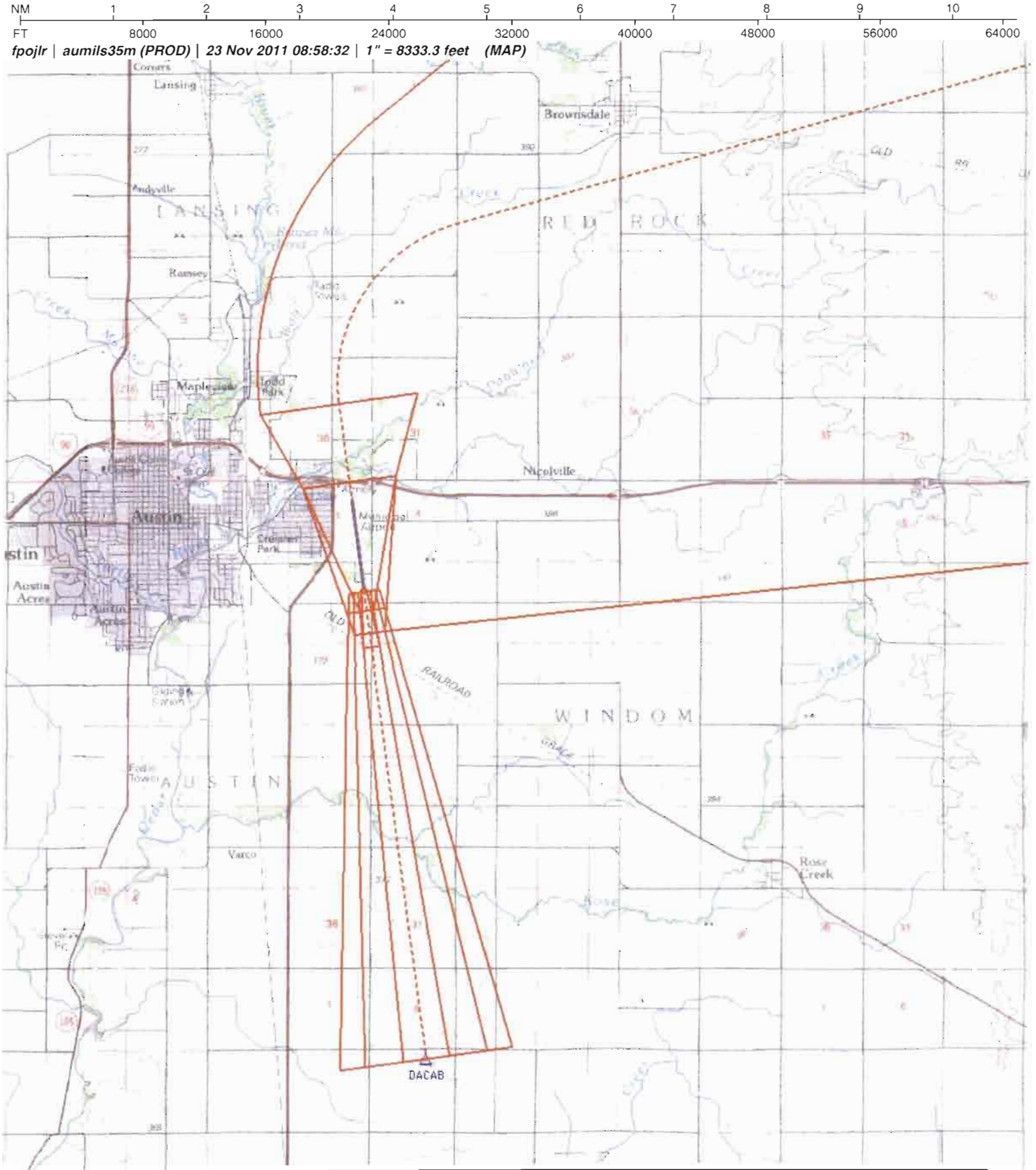
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

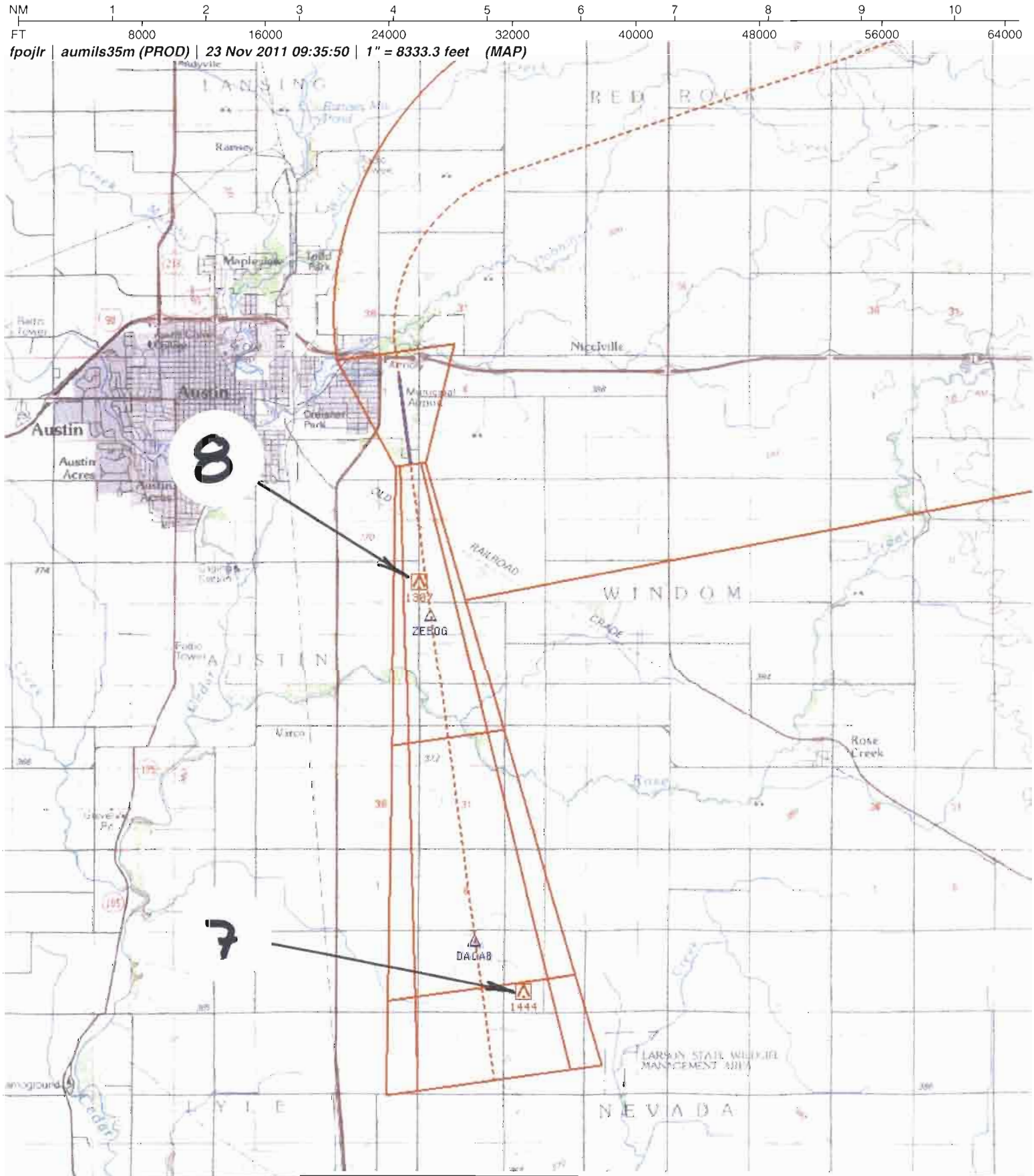
fpojlr | aumils35 (PROD) | 23 Nov 2011 08:51:15 | 1" = 8333.3 feet (MAP)

Airport ID:	KAUM	FM 9 – LOC (NON-PRECISION)			
Apt Name:	AUSTIN MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	AUSTIN	7	FINAL: LOC	AAO	1444
State:	MN	8	FINAL: LOC STEPDOWN	TREE (KAUMT0336)	1307
Scale:	1:100,000	14	CIRCLING A/B/C/D	TANK (KAUMT0343)	1389
Proc ID:	ILS OR LOC RWY 35				
Amdt #:	1				





Airport ID:	KAUM	FM 9 – ALT MISSED APPCH – ILS (PRECISION)			
Apt Name:	AUSTIN MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	AUSTIN		FINAL: ILS	ASC	
State:	MN				
Scale:	1:100,000				
Proc ID:	ILS OR LOC RWY 35				
Amdt #:	1				



Airport ID:	KAUM	FM 9 – ALT MISSED APPCH – LOC (NON-PRECISION)			
Apt Name:	AUSTIN MUNI	No	SEGMENT	OBSTRUCTION	ELEV
City:	AUSTIN	7	FINAL: LOC	AAO	1444
State:	MN	8	FINAL: LOC STEPDOWN	TREE (KAUMT0336)	1307
Scale:	1:100,000				
Proc ID:	ILS OR LOC RWY 35				
Amdt #:	1				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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
RST VOR/DME	FARUN INT	209.89 / 22.87	3800
MCW VORTAC (IAF)	FARUN INT (NOPT)	034.03 / 29.45	3800
FARUN INT (IF/IAF)	DACAB INT	351.13 / 6.11 (I-AUM)	2900

MISSED APPROACH

ILS: DA
LOC: 5.09 MILES AFTER DACAB INT

CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3800 ON HEADING 179 AND MCW VORTAC R-034 TO FARUN INT AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING RIGHT TURN 3000 DIRECT RST VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW RST VOR/DME, RT, 025.14 INBOUND.
CHART IN PLANVIEW: RST VOR/DME.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD S FARUN, RT, 351.13 INBOUND, 3800 FT. IN LIEU OF PT (IAF)
3. FAC: 351.13 FAF: DACAB INT DIST FAF TO MAP: 5.09 THLD: 5.09
4. MIN. ALT: FARUN 3800, DACAB INT 2900
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 951
6. MIN GS INCPT: 2900 GS ALT AT: DACAB 2900 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 47.2
8. MSA FROM: JAY VOR/DME 030-210 3900, 210-030 3400

MAG VAR: 1E EPOCH YEAR: 2005

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 35	1431	1/2	200	1431	1/2	200	1431	1/2	200	1431	1/2	200			
S-LOC 35	1700	1/2	469	1700	1/2	469	1700	1	469	1700	1	469			
CIRCLING	1740	1	506	1740	1	506	1740	1 1/2	506	1800	2	566			

NOTES:
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MCW VORTAC AIRWAY RADIALS 343 CW 075.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBERT LEA ALTIMETER SETTING AND INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CATS C AND D VISIBILITY TO 1 3/8 MILE.

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 1234 THRE: 1231 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
AUSTIN, MN	AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED 04/10/2008

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] ZMP, RST APP CON, ARPT MGR

FLIGHT CHECKED BY		
NAME: WILLIAM EDWARD SETTLEMIRE	FIFO FIOG	DATE: 02/16/2012

DEVELOPED BY		
NAME: JOSE ALFONSO (JEFF L. RAWDON)	FIFO AJV-353	DATE: 11/16/2011

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

CHANGES:

1. INTERMEDIATE SEGMENT LENGTH CHANGED FROM 6.18 TO 6.11.
2. FINAL LENGTH CHANGED FROM 5.02 TO 5.09.
3. TCH CHANGED FROM 47.7 TO 47.2.
4. PRIMARY MISSED APPROACH HEADING CHANGED FROM 150 TO 179.
5. ADDED ZEBOG STEPDOWN FIX.
6. PROCEDURAL ELEVATION CHANGED FROM TDZE 1234 TO THRE 1231.
7. ILS DA/HATH CHANGED FROM 1484/250 TO 1431/200.
8. LOC MDA/HATH CHANGED FROM 1700/466 TO 1560/329.
9. ILS VISIBILITY CHANGED FROM 3/4 TO 1/2 MILE.
10. LOC CATS A/B/C VISIBILITY CHANGED FROM 3/4 TO 1/2 MILE; CAT D CHANGED FROM 1 TO 1/2 MILE.
11. CHANGED B/U ALSTG ADJUSTMENT NOTE FROM "...INCREASE DA TO 1532 FEET AND ALL MDAS 60 FEET, INCREASE S-LOC 35 CAT C/D VISIBILITY 1/4 MILE" TO "...INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET AND INCREASE ZEBOG FIX MINIMUMS S-LOC 35 CATS C AND D VISIBILITY 1/8 MILE."
12. REMOVED CHART NOTE "INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 35 WHEN USING LOCAL ALTIMETER SETTING."
13. CHANGED CHART NOTE "FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CAT A/B VISIBILITY TO 1 MILE, WHEN USING ALBERT LEA ALTIMETER SETTING INCREASE S-LOC

SEE 8260-10

REASONS:

1, 2. PFAF RELOCATED IAW 8260.54A FORMULA 2-16B.
3. REVISED ILS GLIDESLOPE DATA.
4. REQUIRED TO AVOID NEW OBSTRUCTION.
5. STEPDOWN FIX NECESSARY AFTER APPLICATION OF AAO IN FINAL IAW 8260.19D PARA 274.
6. IAW 8260.3B CHG 20 PARA 3.1.
7. FPT REQUEST.
8. REEVALUATED BASED ON CURRENT OBSTRUCTION DATA AND IAW 8260.19D.
9, 10, 11. REEVALUATED BASED ON LOWER MINIMA AND IAW 8260.3B CHG 20 CHAPTER 3.
12, 13. REEVALUATED BASED ON LOWER MINIMA AND IAW 8260.3B CHG 20 CHAPTER 3.
14. VISUAL SURFACES NOW CLEAR.
15. NEW CONTROLLING OBSTRUCTION.

02/27/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/16/2011.
1. DELETED ZEBOG FIX MINIMUMS.
SEE 8260-10

QUALITY CHECKED

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QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED: 04/10/2008

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.
35 CAT A/B VISIBILITY TO 1 MILE" TO "FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CATS C AND D VISIBILITY TO 1 3/8 MILE." 14. REMOVED CHART NOTE "VISIBILITY REDUCTION BY HELICOPTERS NA." 15. MSA SECTOR 030-210 MINIMUM ALTITUDE RAISED FROM 3800 TO 3900.

REASONS:

REASONS CONT.
2. DELETED NOTE ASTERISK LOC ONLY.
3. DELETED NOTE ASTERISK 1760 WHEN USING ALBERT LEA ALTIMETER SETTING.
4. CHANGED NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBERT LEA ALTIMETER SETTING AND INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET AND INCREASE ZEBOG FIX MINIMUMS S-LOC 35 CATS C AND D VISIBILITY 1/8 MILE TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ALBERT LEA ALTIMETER SETTING AND INCREASE ALL DA 48 FEET AND ALL MDA 60 FEET.
5. ADDITIONAL FLIGHT DATA DELETED CHART FAS OBST: 1307 TREE 433757N/0925545W.
UPDATED COPY BY ANKUR VERMA.

QUALITY 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

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                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        AEL   K3010980VDTA N43405425W093221472    N43405425W093221472E0010012520     NARALBERT LEA
        SUSAD        JAY   K3010820VDTW N43343454W092550715    N43343488W092550716E0030012330     NARAUSTIN
        SUSAD        MCW   K3011490VTHW N43054112W093194754    N43054112W093194754E0060012092     NARMASON CITY
        SUSAD        RST   K3011200VDLA N43465856W092354898    N43465856W092354898E0050013891     NARROCHESTER

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   DACAB K30    C     N43341436W092545558                    E0005     NAR          DACAB
        SUSAEAENRT   FARUN K30    C     N43281132W092534679                    E0005     NAR          FARUN

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3AAUM     0     058YHN43394550W092555850E003001234          1800018000C    MNAR    AUSTIN MUNI

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3FI35   AMCW   010MCW  K3D 0V  A    FC MCW K3      0000000003400275D   + 03800     18000                  0 NS
        SUSAP KAUMK3FI35   AMCW   020FARUNK3EA0EE B    CF IAUMK3      1711012303400020PI  + 03800                            0 NS
        SUSAP KAUMK3FI35   ARST   010RST  K3D 0V       IF                                                18000                  0 NS
        SUSAP KAUMK3FI35   ARST   020FARUNK3EA0EY      TF                                  + 03800                            0 NS
        SUSAP KAUMK3FI35   ARST   030FARUNK3EA0EE AR   HF AEL K3      120402433511T010D   + 03800                            0 NS
        SUSAP KAUMK3FI35   I      010FARUNK3EA0E  I    IF IAUMK3      17110123         PI J 038000290018000                  0 NS
        SUSAP KAUMK3FI35   I      020DACABK3EA0E  F    CF IAUMK3      1711006235100061PI  H 0290002900        -300JAY   K3D 0 NS
        SUSAP KAUMK3FI35   I      030RW35 K3PG0GY M    CF IAUMK3      1711001135100051PI    01278             -300           0 NS
        SUSAP KAUMK3FI35   I      040          0  M    CA                      3511        + 01800                            0 NS
        SUSAP KAUMK3FI35   I      050          0    R  VIY                     1790                                           0 NS
        SUSAP KAUMK3FI35   I      060FARUNK3EA0EY      CF MCW K3      0340029521400020D   + 03800                            0 NS
        SUSAP KAUMK3FI35   I      070FARUNK3EA0EE  R   HM                      3511T010    + 03800                            0 NS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3GRW35    0058003491 N43391712W092555314+0000    +0346201231000047100IIAUM1

                1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3IIAUM1   011055RW35 N43402380W0925605843511N43392692W0925549991015 09510589300E00104701226
```

GVAL 2
1
CHECKED

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED: 4/10/2008

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 KAUMK3SJAY  K3D                 0   0302100342521003003925                                                          M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED: 4/10/2008

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**

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 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	MCW	MCW	010	IAF	FC		FB		034.0()	027.5	AA 03800	
	MCW	FARUN	020		CF		FB		034.0()	002.0	AA 03800	
	RST	RST	010		IF		FB					
	RST	FARUN	020		TF		FO				AA 03800	
	RST	FARUN	030	IAF	HF	R	FO		351.1()	T01.0	AA 03800	
		FARUN	010	FACF	IF		FB				AA 03800 GI 02900	
		DACAB	020	FAF	CF		FB		351.0()	006.1	GI 02900 GS 02900	
		RW35	030	MAP	CF		FO		351.0()	005.1	AT 01278	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		351.1()		AA 01800	
		050		VI	R	FB		179.0()			
	FARUN	060		CF		FO		214.0()	002.0	AA 03800	
	FARUN	070		HM	R	FO		351.1()	T01.0	AA 03800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AEL	N434054.25	W0932214.72	N4340.904	W09322.245
	JAY	N433434.54	W0925507.15	N4334.576	W09255.119
	MCW	N430541.12	W0931947.54	N4305.685	W09319.792
	RST	N434658.56	W0923548.98	N4346.976	W09235.816
	DACAB	N433414.36	W0925455.58	N4334.239	W09254.926
	FARUN	N432811.32	W0925346.79	N4328.189	W09253.780
	RW35	N433917.12	W0925553.14	N4339.285	W09255.886
	IAUM (LOC)	N434023.80	W0925605.84	N4340.397	W09256.097

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW35	01231	47

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: **AUSTIN MUNI**	**I-AUM**	**ILS OR LOC RWY 35, AMDT 1**	AMDT: **ORIG**
				DATED: **4/10/2008**

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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ARINC PACKET - 424-18 - LOC

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        AEL   K3010980VDTA N43405425W093221472    N43405425W093221472E0010012520     NARALBERT LEA
        SUSAD        JAY   K3010820VDTW N43343454W092550715    N43343488W092550716E0030012330     NARAUSTIN
        SUSAD        MCW   K3011490VTHW N43054112W093194754    N43054112W093194754E0060012092     NARMASON CITY
        SUSAD        RST   K3011200VDLA N43465856W092354898    N43465856W092354898E0050013891     NARROCHESTER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   DACAB K30    C     N43341436W092545558                      E0005     NAR           DACAB
        SUSAEAENRT   FARUN K30    C     N43281132W092534679                      E0005     NAR           FARUN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3AAUM     0     058YHN43394550W092555850E003001234         1800018000C    MNAR    AUSTIN MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3FL35   AMCW   010MCW  K3D 0V  A    FC MCW K3      0000000003400275D   + 03800     18000                 0 NS
        SUSAP KAUMK3FL35   AMCW   020FARUNK3EA0EE B    CF IAUMK3      1711012303400020PI  + 03800                           0 NS
        SUSAP KAUMK3FL35   ARST   010RST  K3D 0V       IF                                             18000                 0 NS
        SUSAP KAUMK3FL35   ARST   020FARUNK3EA0EY      TF                                  + 03800                           0 NS
        SUSAP KAUMK3FL35   ARST   030FARUNK3EA0EE AR   HF AEL K3      120402433511T010D   + 03800                           0 NS
        SUSAP KAUMK3FL35   L      010FARUNK3EA0E  I    IF IAUMK3      17110123        PI  + 03800     18000                 0 NS
        SUSAP KAUMK3FL35   L      020DACABK3EA0E  F    CF IAUMK3      1711006235100061PI  + 02900                 JAY   K3D 0 NS
        SUSAP KAUMK3FL35   L      030RW35 K3PG0GY M    CF IAUMK3      1711001135100051PI    01278             -301          0 NS
        SUSAP KAUMK3FL35   L      040         0  M     CA                     3511        + 01800                           0 NS
        SUSAP KAUMK3FL35   L      050         0    R   VIY                    1790                                          0 NS
        SUSAP KAUMK3FL35   L      060FARUNK3EA0EY      CF MCW K3      0340029521400020D   + 03800                           0 NS
        SUSAP KAUMK3FL35   L      070FARUNK3EA0EE  R   HM                     3511T010    + 03800                           0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3GRW35    0058003491 N43391712W092555314+0000    +0346201231000047100IIAUM1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3IIAUM1   011055RW35 N43402380W0925605843511N43392692W0925549991015 09510589300E00104701226
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: **1234** THRE: **1231**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: **AUSTIN MUNI**	**I-AUM**	**ILS OR LOC RWY 35, AMDT 1**	AMDT: **ORIG**
				DATED: **04/10/2008**

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

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUMK3SJAY  K3D                0   0302100342521003003925                                                          M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED: 04/10/2008

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
	MCW	MCW	010	IAF	FC		FB		034.0()	027.5	AA 03800	
	MCW	FARUN	020		CF		FB		034.0()	002.0	AA 03800	
	RST	RST	010		IF		FB					
	RST	FARUN	020		TF		FO				AA 03800	
	RST	FARUN	030	IAF	HF	R	FO		351.1()	T01.0	AA 03800	
		FARUN	010	FACF	IF		FB				AA 03800	
		DACAB	020	FAF	CF		FB		351.0()	006.1	AA 02900	
		RW35	030	MAP	CF		FO		351.0()	005.1	AT 01278	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		351.1()		AA 01800	
		050		VI	R	FB		179.0()			
	FARUN	060		CF		FO		214.0()	002.0	AA 03800	
	FARUN	070		HM	R	FO		351.1()	T01.0	AA 03800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AEL	N434054.25	W0932214.72	N4340.904	W09322.245
	JAY	N433434.54	W0925507.15	N4334.576	W09255.119
	MCW	N430541.12	W0931947.54	N4305.685	W09319.792
	RST	N434658.56	W0923548.98	N4346.976	W09235.816
	DACAB	N433414.36	W0925455.58	N4334.239	W09254.926
	FARUN	N432811.32	W0925346.79	N4328.189	W09253.780
	RW35	N433917.12	W0925553.14	N4339.285	W09255.886
	IAUM (LOC)	N434023.80	W0925605.84	N4340.397	W09256.097

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW35	01231	47

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1234 THRE: 1231	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AUSTIN, MN	AIRPORT NAME: AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AMDT: ORIG
				DATED: 04/10/2008

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	RST VOR/DME	FARUN INT	1. TOWER (27-001665)	433823.00N/0923831.00W	1890 (5D)	1000	AT910	3800
			2. TERRAIN	434039.00N/0924100.00W	1477 (1500)		AS1500	3000
INITIAL	MCW VORTAC	FARUN INT	3. TOWER (19-000404)	432220.00N/0925000.00W	2799 (1D)	1000		3800
			4. TERRAIN	430833.00N/0932239.00W	1293 (1300)		AS1500	2800
INTERMEDIATE	FARUN INT	DACAB INT	5. TOWER (27-001879)	433007.00N/0925550.00W	1486 (5D)	500	AT914	2900
	(IF/IAF)		6. TERRAIN	432854.00N/0924836.00W	1280 (1300)		AS1500	2800
FINAL: ILS	DACAB INT	RW35				ASC		1431/200
FINAL: LOC	DACAB INT	5.09 MILES AFTER DACAB INT	7. AAO	433336.00N/0925412.00W	1444 (2C)	250		1700
2. HOLD-IN-LIEU-OF-PT	FARUN	P-5	3. TOWER (19-000404)	432220.00N/0925000.00W	2799 (1D)	1000		3800
			8. TERRAIN	432851.00N/0924821.00W	1283 (1300)		AS1500	2800
3. MISSED APPROACH — MAP:	DA / 5.09 MILES	FARUN INT				ASC		3800
	AFTER DACAB INT		9. WNDML (27-002345)	433212.10N/0924338.60W	1680 (2C)	1000		2700
ELEV:	1266/1310		10. TERRAIN	434154.00N/0924748.00W	1388 (1400)		AS1500	2900

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	506	11. WATER TWR	433948.65N/0925653.20W	1389 (1A)	300	XP51	1740
CATEGORY B	1.5 NM	450	506	11. WATER TWR	433948.65N/0925653.20W	1389 (1A)	300	XP51	1740
CATEGORY C	1.7 NM	450	506	11. WATER TWR	433948.65N/0925653.20W	1389 (1A)	300	XP51	1740
CATEGORY D	2.3 NM	550	566	11. WATER TWR	433948.65N/0925653.20W	1389 (1A)	300	HAA	1800
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: JAY VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
030-210	TWR (19-020063)	120/ 11.0	2828 (5D)	3900					
210-030	TWR (27-000324)	284/ 10.7	2321 (1D)	3400					

CITY AND STATE	ELEVATION: 1234 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
AUSTIN, MN	AUSTIN MUNI	I-AUM	ILS OR LOC RWY 35, AMDT 1	AGL

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZMP ARTCC RST APP CON PNM FSS	N W S F A A A / C	OTHER: AWOS-3	SOURCE: KAUM / KAEL DISTANCE: 0 / 18.99 HOURS REMOTE OPERATION: BACKUP
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KAUM		ADJUSTMENT: 0 / 48

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

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

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-P 17, 35
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1230.8
	DISTANCE FROM RWY: 951	ELEV GP ANTENNA: 1228.2
		THRESHOLD CROSSING HEIGHT: 47.2

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

10. WAIVERS: NONE

PART D - PREPARED BY: JOSE ALFONSO (JEFF L. RAWDON)	DATE: 11/16/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KAUM 1233.5, KAEL 1261.0
RA = 47.27.
SEE ATTACHED AIRSPACE LETTER.

SERVICE A: KAUM: YES / KAEL: YES

VGSI DATA: 3.00/42.1

ALL VISUAL SURFACES ARE CLEAR.

LOWERING OF ILS MINIMA PER PROJECT GUIDANCE.

LOWERING OF LOC MINIMA APPROVED BY FPT AND OE GROUP.

XP = TO MATCH CIRCLING MINS FOR OTHER APPROACHES

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
12. TOWER (27-001302) 434023.00N/0924155.00W 1868 (5D)
1000 2900
13. TERRAIN 434039.00N/0924100.00W 1477 (1500) AS1500
3000

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DACAB **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433414.36N/0925455.58W **TYPE:** WP, INT

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	AUSTIN	I-AUM	LOC		171.13	172.13		6.21	37763	2900	5700
2	ROCHESTER	RST	VOR/DME	L	222.55	227.55		18.83		2900	5700
3	ALBERT LEA	AEL	VOR/DME	T	107.41	108.41		20.93		2900	5700

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

REMARKS:
AUSTIN (FAC 1) AND ROCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES
8260.54A FORMULA 2-16B USED TO EXTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2, 3		KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 35			KAUM	AUSTIN	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
FIX MOVED 460.12 FT SOUTH; COORDINATES UPDATED.
FAC 1 DIST FROM FAC CHANGED FROM 37282 TO 37763 FT.
FAC 2 BRG CHANGED FROM 222.75/227.75 TO 222.55/227.55; DIST FROM FAC CHANGED FROM 18.78 TO 18.83 NM; MAA CHANGED FROM 17500 TO 5700.
FAC 3 BRG CHANGED FROM 107.22/108.22 TO 107.41/108.41; DIST FROM FAC CHANGED FROM 20.90 TO 20.93 NM; MAA CHANGED FROM 12000 TO 5700.

DEVELOPED BY: **DATE:** 11/10/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (JEFF RAWDON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FARUN **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 432811.32N/0925346.79W **TYPE:** WP, INT

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	AUSTIN	I-AUM	LOC		171.13	172.13		12.32		3800	5700
2	MASON CITY	MCW	VORTAC	H	034.03	040.03		29.45		3800	17500
3	ALBERT LEA	AEL	VOR/DME	T	120.40	121.40		24.29		3800	12000

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	I-AUM	LOC	171.13	351.13	R	1		3800	6000	5	6
2	S		WP	169.16	349.16	R		4	3800	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-000404)	432220.00N/0925000.00W	2799	1D
2	200	TOWER (19-000404)	432220.00N/0925000.00W	2799	1D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
MASON CITY (FAC 2) AND AUSTIN (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2, 3	1	KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 17		2	KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 35		2	KAUM	AUSTIN	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:**

REASON FOR REVISION:
HOLDING PAT 1 CRS/CRS INBOUND CHANGED FROM 169.15/349.15 TO 169.16/349.16.

DEVELOPED BY: **DATE:** 11/10/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (JEFF RAWDON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROCHESTER VOR/DME **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 434658.56N/0923548.98W **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	ROCHESTER	RST	VOR/DME	L						2900	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	SW	RST	VOR/DME	205.14	025.14	R	1		3000	6000	4	5
2	NE	RST	VOR/DME	059.66	239.66	R	1		3000	6000	4	5
3	NE		WP	060.00	240.00	R		4	2900	6000	5	6
4	SE	RST	VOR/DME	139.26	319.26	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001665)	433823.00N/0923831.00W	1890	5D
2	200	WINDMILL (27-020341)	434511.34N/0924053.51W	1809	4D
3	200	WINDMILL (27-020341)	434511.34N/0924053.51W	1809	4D
4	200	TOWER (27-001580)	433836.00N/0923139.00W	2549	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING PAT 4 OBSTRUCTION IS 3912.78 FT INTO THE SECONDARY AREA.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ROCHESTER			KANE	MINNEAPOLIS	MN (US)
DP	ZMBRO			KANE	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KFCM	MINNEAPOLIS	MN (US)
DP	ZMBRO			KFCM	MINNEAPOLIS	MN (US)
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KSTP	ST PAUL	MN (US)
DP	ZMBRO			KSTP	ST PAUL	MN (US)
EN ROUTE	V161					(US)
EN ROUTE	V170					(US)
EN ROUTE	V24					(US)
EN ROUTE	V24-398					(US)
EN ROUTE	V398-411					(US)
EN ROUTE	V411					(US)
EN ROUTE	V503					(US)
EN ROUTE	V67					(US)
EN ROUTE	V82-161					(US)
EN ROUTE	V82-170					(US)
IAP	RNAV (GPS) RWY 12			KCCY	CHARLES CITY	IA (US)
IAP	ILS OR LOC RWY 35 (ALT MISSED)		1	KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 17			KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 35			KAUM	AUSTIN	MN (US)
IAP	VOR RWY 17			KAUM	AUSTIN	MN (US)
IAP	VOR RWY 35			KAUM	AUSTIN	MN (US)
IAP	VOR/DME-A		2	KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 16			KTOB	DODGE CENTER	MN (US)
IAP	RNAV (GPS) RWY 34			KTOB	DODGE CENTER	MN (US)
IAP	VOR-A		4	KTOB	DODGE CENTER	MN (US)
IAP	ILS OR LOC RWY 30			KOWA	OWATONNA	MN (US)
IAP	RNAV (GPS) RWY 30			KOWA	OWATONNA	MN (US)
IAP	COPTER ILS OR LOC RWY 31		1	KRST	ROCHESTER	MN (US)
IAP	ILS OR LOC RWY 13		1	KRST	ROCHESTER	MN (US)
IAP	ILS OR LOC RWY 31		1	KRST	ROCHESTER	MN (US)
IAP	RADAR-1		1	KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 13		3	KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 20		3	KRST	ROCHESTER	MN (US)
IAP	VOR RWY 2		1	KRST	ROCHESTER	MN (US)
IAP	VOR/DME RWY 20		1	KRST	ROCHESTER	MN (US)
IAP	LOC RWY 30			KONA	WINONA	MN (US)
STAR	JANESVILLE			KORD	CHICAGO	IL (US)
STAR	KASPR			KMSP	MINNEAPOLIS	MN (US)

QUALITY 2 RECEIVED

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
FACILITY COORDINATES UPDATED PER NEW AVNIS DATA.
UPDATED FIX USE.

DEVELOPED BY:	**DATE:** 11/15/2011	**OFFICE:** AJV-353	**NAME:** JOSE ALFONSO (JEFF RAWDON)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST APP CON
OTHER: RST ATCT

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEBOG **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433742.01N/0925535.04W **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 35			KAUM	AUSTIN	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/03/2012

REASON FOR REVISION:
02/27/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/09/2011.
1. FIX TYPE DELETED INT.
2. DELETED FAC 1/2/3.
3. DELETED REMARK AUSTIN (FAC 1) AND ROCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
4. REMOVED ILS OR LOC RWY 35 FROM FIX USE.
UPDATED COPY DEVELOPED BY ANKUR VERMA.

DEVELOPED BY: **DATE:** 11/09/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (JEFF RAWDON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: MASON CITY VORTAC **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 430541.12N/0931947.54W **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	MASON CITY	MCW	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	W	MCW	VORTAC	278.00	098.00	L	1-1 1/2		3000	45000	4	29
2	S	MCW	VORTAC	176.00	356.00	R	1		3000	6000	4	5
3	S	MCW	VORTAC	175.00	355.00	R	1		3000	6000	4	5
4	S		WP	176.00	356.00	R		4	3800	6000	5	6
5	W		WP	278.00	098.00	L		10	15000	45000	16	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
1	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
2	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
3	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
4	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
4	310	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
5	265	TOWER (19-001056)	431004.00N/0930606.00W	1971	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (GPS) RWY 18	KMCW	MASON CITY	IA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DES MOINES			KDSM	DES MOINES	IA (US)
DP	ORSKY			KANE	MINNEAPOLIS	MN (US)
DP	ORSKY			KFCM	MINNEAPOLIS	MN (US)
DP	ORSKY			KMSP	MINNEAPOLIS	MN (US)
DP	ORSKY			KSTP	ST PAUL	MN (US)
EN ROUTE	J148					(US)
EN ROUTE	J16		1			(US)
EN ROUTE	J25					(US)
EN ROUTE	J90					(US)
EN ROUTE	V120		1			(US)
EN ROUTE	V13					(US)
EN ROUTE	V138					(US)
EN ROUTE	V158					(US)
EN ROUTE	V161					(US)
EN ROUTE	V505					(US)
IAP	RNAV (GPS) RWY 12			KCCY	CHARLES CITY	IA (US)
IAP	NDB RWY 14			KCAV	CLARION	IA (US)
IAP	NDB RWY 33			KFXY	FOREST CITY	IA (US)
IAP	RNAV (GPS) RWY 33			KFXY	FOREST CITY	IA (US)
IAP	VOR/DME-A			KFXY	FOREST CITY	IA (US)
IAP	VOR/DME RWY 35			KHPT	HAMPTON	IA (US)
IAP	ILS OR LOC RWY 36			KMCW	MASON CITY	IA (US)
IAP	LOC BC RWY 18		2	KMCW	MASON CITY	IA (US)
IAP	RNAV (GPS) RWY 18		4	KMCW	MASON CITY	IA (US)
IAP	VOR RWY 36		2	KMCW	MASON CITY	IA (US)
IAP	VOR/DME RWY 18		3	KMCW	MASON CITY	IA (US)
IAP	ILS OR LOC RWY 12			KALO	WATERLOO	IA (US)
IAP	VOR RWY 36			KALO	WATERLOO	IA (US)
IAP	RNAV (GPS) RWY 35			KAEL	ALBERT LEA	MN (US)
IAP	VOR/DME RWY 35			KAEL	ALBERT LEA	MN (US)
IAP	ILS OR LOC RWY 35			KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 17			KAUM	AUSTIN	MN (US)

QUALITY 2 CHECKED

IAP	RNAV (GPS) RWY 35		KAUM	AUSTIN	MN (US)
STAR	BULLZ (RNAV)	5	KORD	CHICAGO	IL (US)
STAR	JANESVILLE	1	KORD	CHICAGO	IL (US)
STAR	KASPR		KMSP	MINNEAPOLIS	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
UPDATE NAVAID COORDINATES DUE TO 3RD PARTY SURVEY DTD 12/4/2009 AND NFDD 086 DTD 5/4/2011.
UPDATED PAT 5 LENGTH DME 8 TO 10, HOLDING ALTITUDE 14000 TO 15000, TEMPLATES MIN 14 TO 16 AND CONTROLLING OBSTRUCTION DATA.
UPDATED FIX USE.
ADDED SECTIONAL TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 06/30/2011 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

APPROVED BY: **DATE:** 04/12/2011 **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU, ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **AUSTIN** STATE: **MN**

AIRPORT NAME: **AUSTIN MUNI** ID: **KAUM**

PROCEDURE: **ILS OR LOC RWY 35** 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 **2.89**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.84**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **352.13**
4. High Terrain in **FINAL** segment containing 1000' point **1234**
5. Distance from **THLD** to 1500' point **4.69**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.23**
7. True Course of **FINAL** segment containing 1500' point **352.13**
8. High Terrain in **FINAL** segment containing 1500' point **1234**
9. Threshold Coordinates (if straight-in) ... **433917.12N** / **0925553.14W**
10. ARP Coordinates ..... **433945.50N** / **0925558.50W**
11. Runway Approach End and distance furthest from ARP.....RWY **35**
    Distance **0.48** NM
12. FAF Coordinates ..... **433414.36N** / **0925455.58W**
    (Click to Select)

REMARKS: Approach/Drawing attached.