Flight Procedure Tracking Form

Action:	Task Type:	Date Open:	Task #:	Request #:
FLIGHT CHECK	IAP	01/24/2012	2009062912534101001	20090629125341

Procedure:	Airport ID:	Airport:	Reimbursable #:
RNAV (GPS) RWY 13 AMDT 1	KAUW	WAUSAU DOWNTOWN	

City:	ST:	GPS #:	Estimated Chart Date:	FICO #:
WAUSAU	WI		10/18/2012	

Fac ID:	Fac. Type:	Specialist:
	LPV-200 HAT	GRACE NOWAK

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/27/2012	06/08/2012	JILL OLSON	
QA:	06/08/2012	06/12/2012	STEVEN SZUKALA	
Liaison:	06/12/2012		Alfonso	MAGVAR

MAG VAR

P2

Procedure Comments:

Remark Type: INFORMATION

pg 1 of 3

WAUSU, WI WAUSAU DOWNTOWN (KAUW) RNAV (GPS) RWY 13, AMDT 1 (LPV) ENROUTE-NO FC: 8.7.12 PUB: 9.20.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): FALET, REV 1; HAKMO, REV 1; JALER, REV 1; ZUPIG-INT, REV 2.

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

WAAS	APP CRS	Rwy Idg	5198
CH 90330	127°	THRE	1192
W13A		Apt Elev	1201

RNAV (GPS) RWY 13

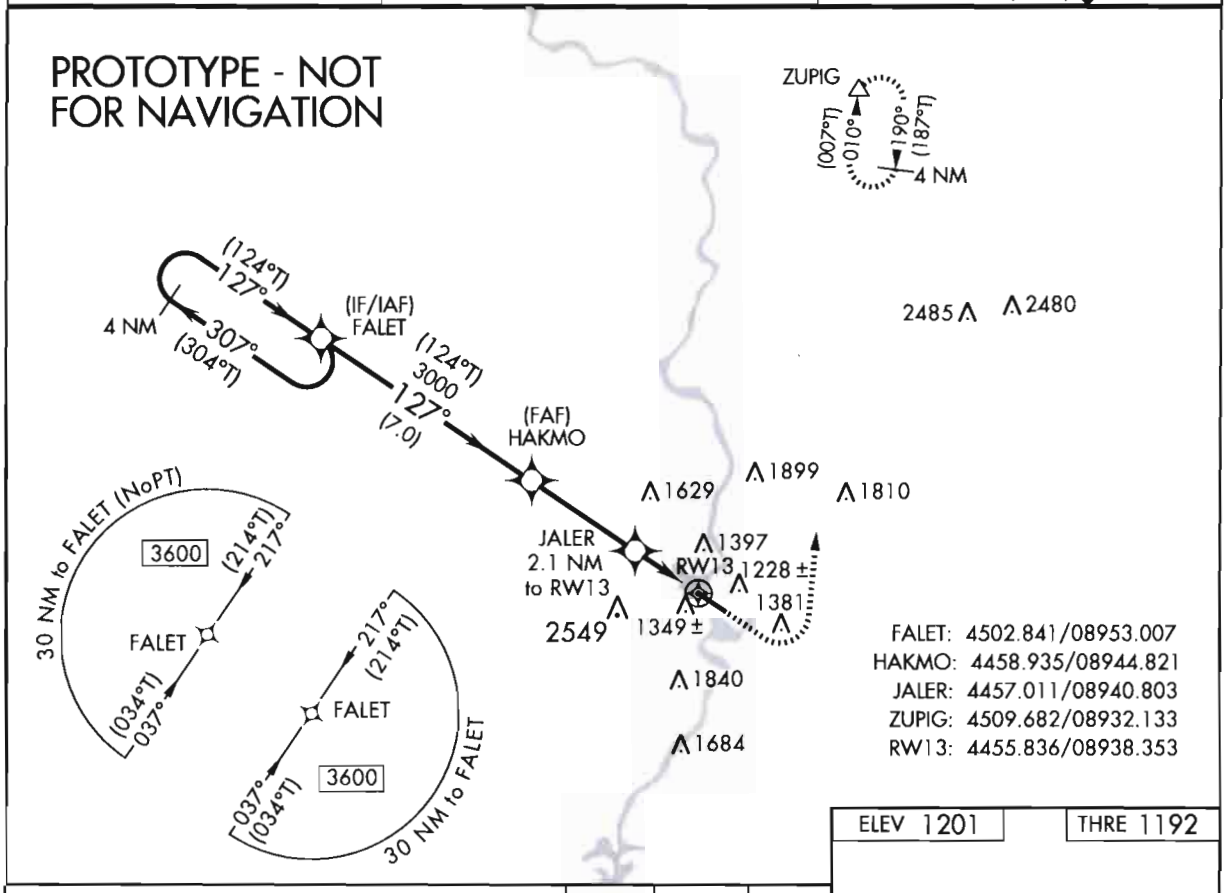
WAUSAU DOWNTOWN (AUW)

Baro-VNAV NA when using Mosinee altimeter setting. For uncompensated Baro-VNAV systems, LNAV/ VNAV NA below -17°C (2°F) or above 54°C (130°F). Circling NA Southwest of Rwy 13-31. DME/DME RNP-0.3 NA. When local altimeter setting not received use Mosinee altimeter setting and increase all DA 32 feet and all MDA 40 feet; increase LNAV-VNAV all Cats visibility ⅛ mile and LNAV and Circling Cats C/D visibility ¼ mile. VDP NA with Mosinee altimeter setting.

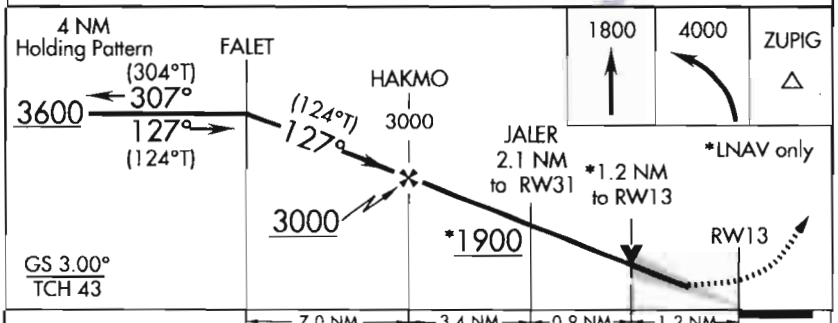
MISSED APPROACH: Climb to 1800 then climbing left turn to 4000 direct ZUPIG and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
125.925	124.4 317.7	122.7 (CTAF) L

PROTOTYPE - NOT FOR NAVIGATION

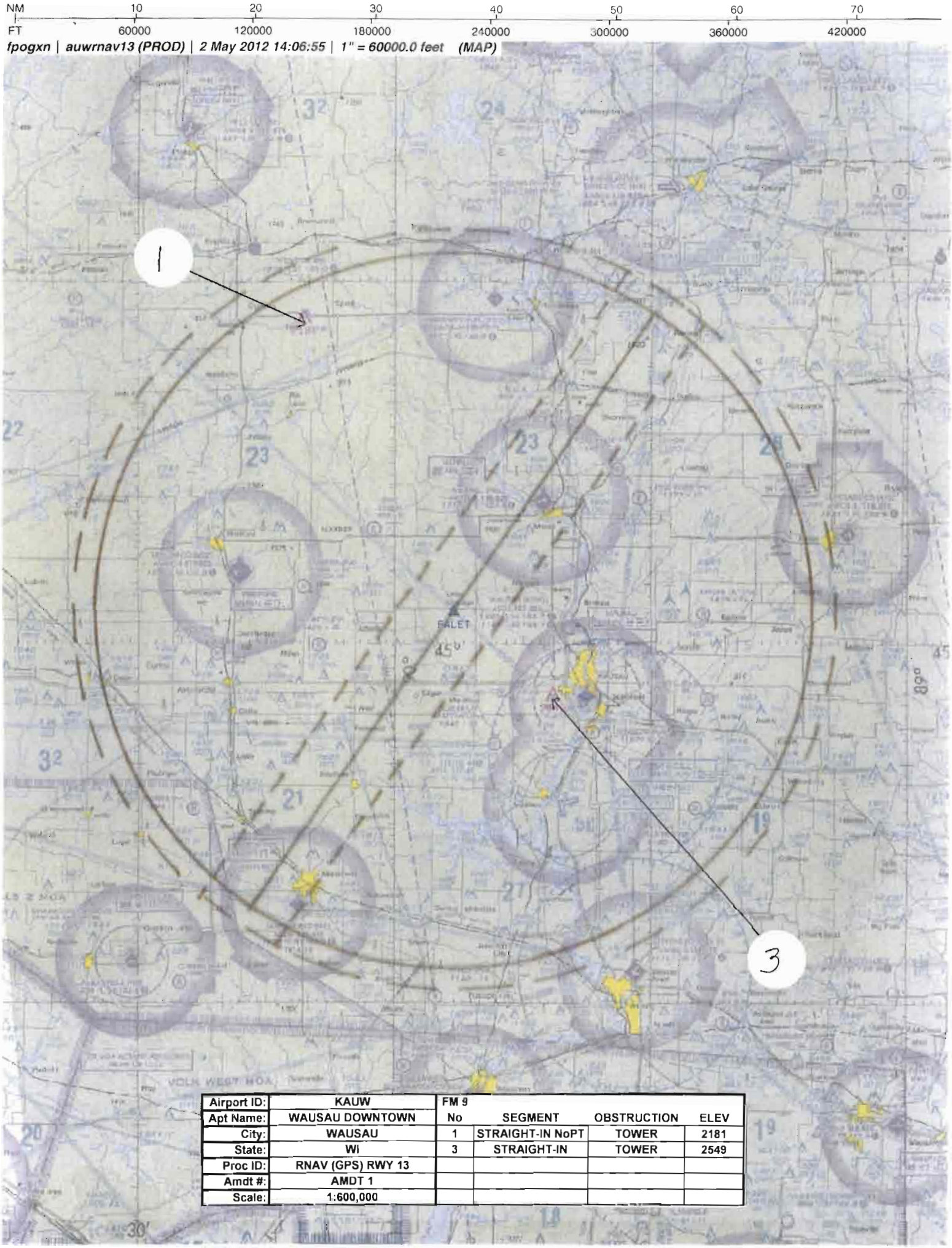


ELEV 1201	THRE 1192



CATEGORY	A	B	C	D
LPV DA	1392-¾ 200 (200-¾)			
LNAV/ VNAV DA	1530-1⅛ 338 (400-1⅛)			
LNAV MDA	1600-1 408 (400-1)		1600-1⅛ 408 (400-1⅛)	
CIRCLING	1840-1 639 (700-1)		1840-1¾ 639 (700-1¾)	1840-2 639 (700-2)

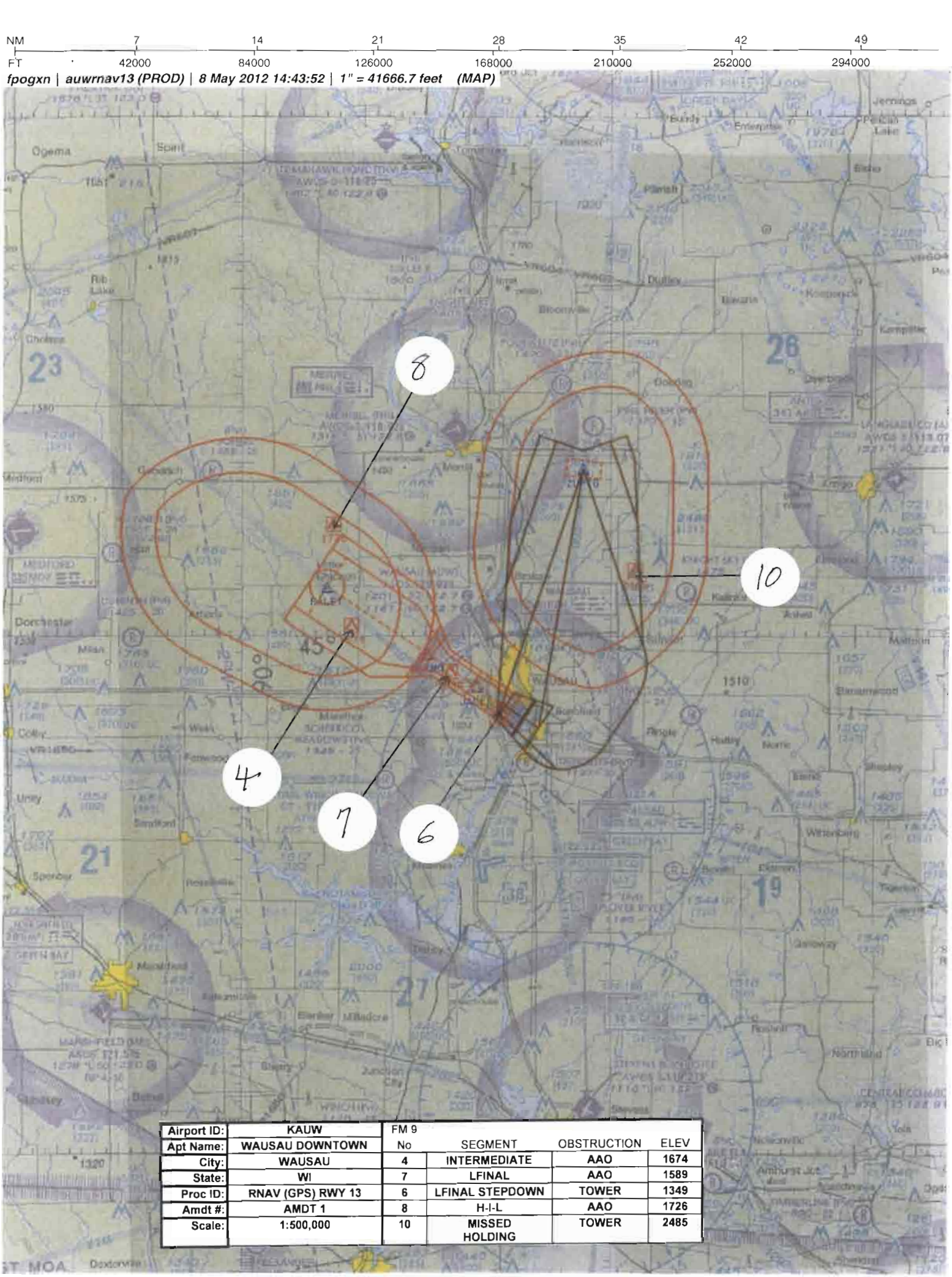
REIL Rwys 12 and 30 L
MIRL Rwys 4-22 and 12-30 L



Airport ID:	KAUW
Apt Name:	WAUSAU DOWNTOWN
City:	WAUSAU
State:	WI
Proc ID:	RNAV (GPS) RWY 13
Amdt #:	AMDT 1
Scale:	1:600,000

FM 9

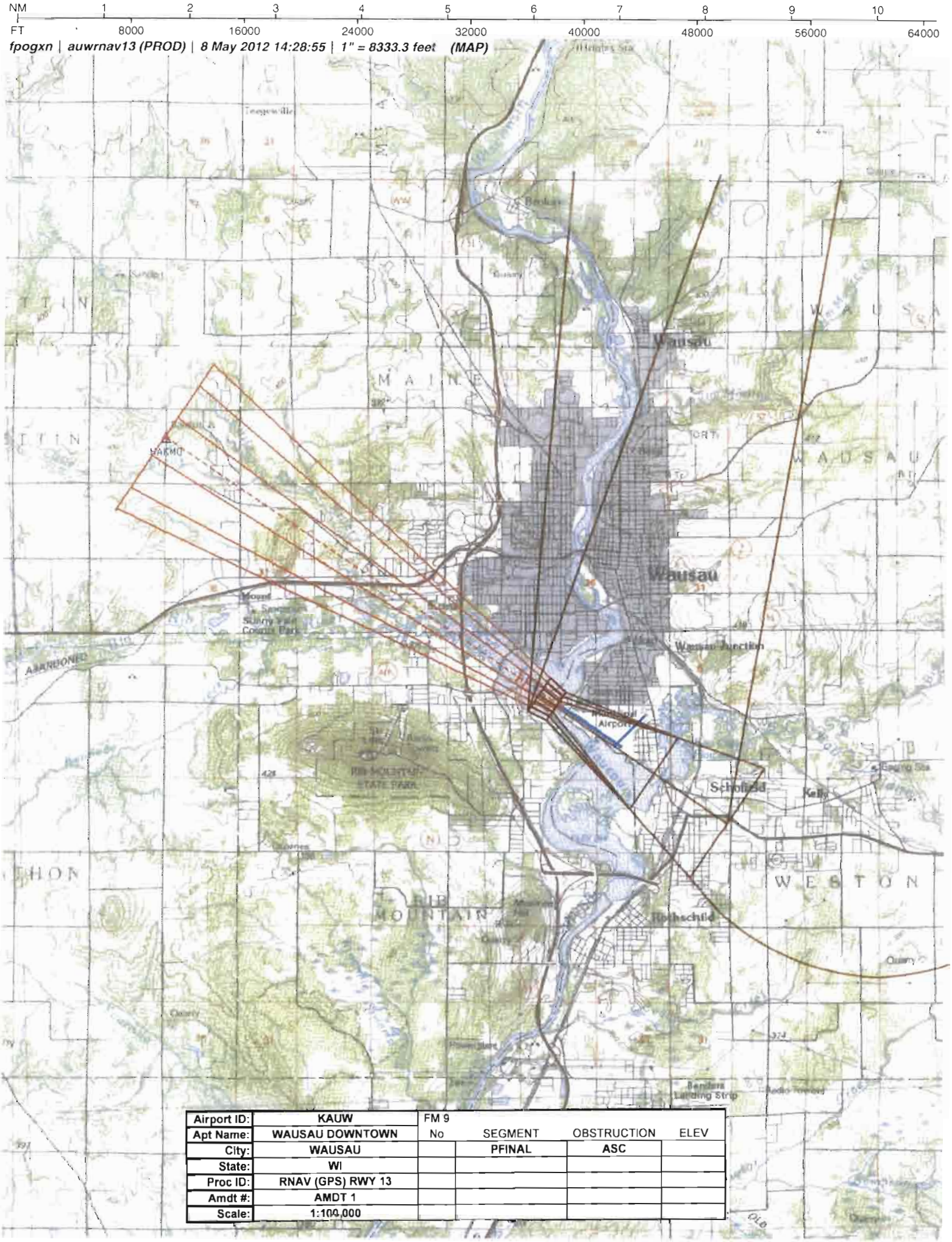
No	SEGMENT	OBSTRUCTION	ELEV
1	STRAIGHT-IN NoPT	TOWER	2181
3	STRAIGHT-IN	TOWER	2549



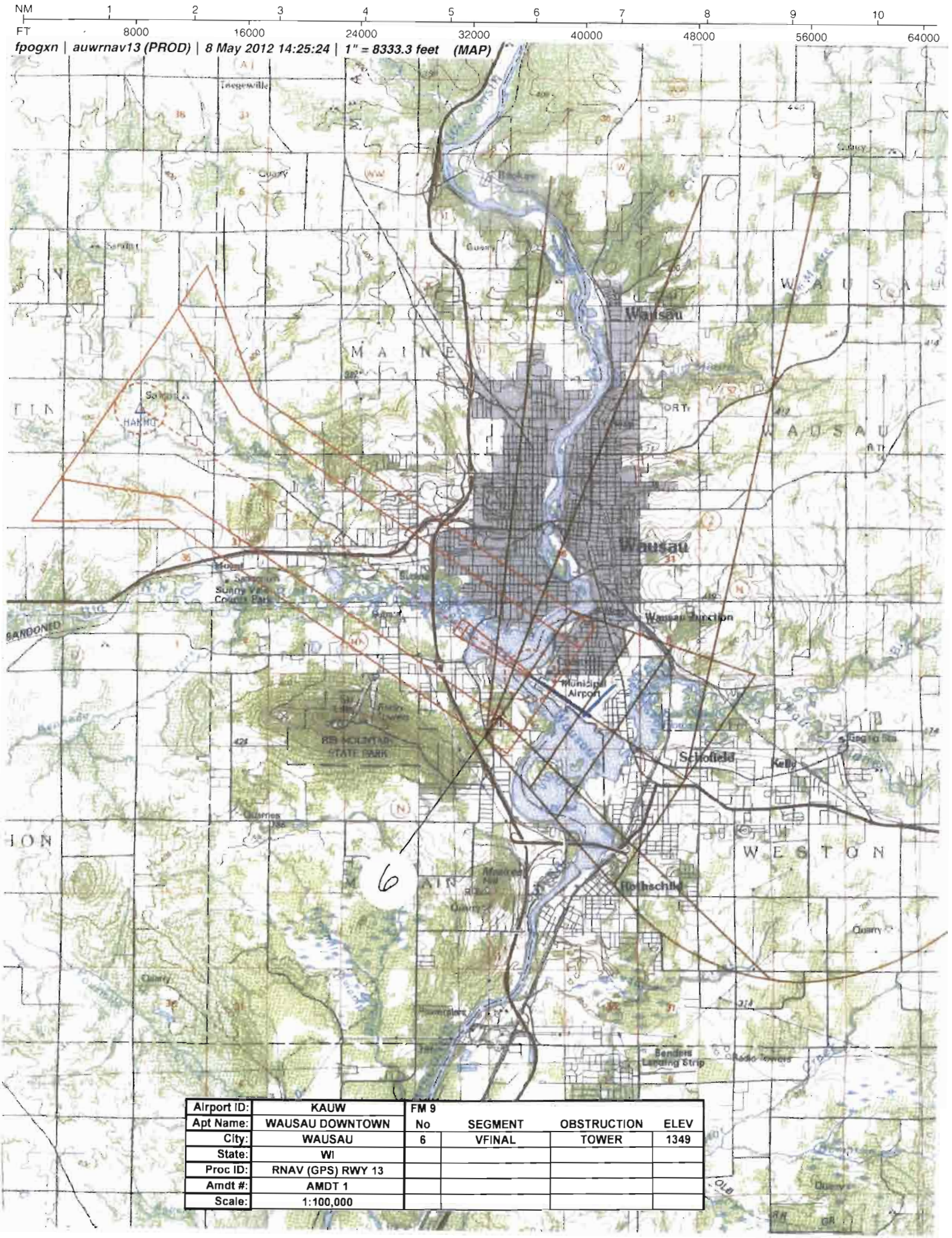
Airport ID:	KAUW
Apt Name:	WAUSAU DOWNTOWN
City:	WAUSAU
State:	WI
Proc ID:	RNAV (GPS) RWY 13
Amdt #:	AMDT 1
Scale:	1:500,000

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
4	INTERMEDIATE	AAO	1674
7	LFINAL	AAO	1589
6	LFINAL STEPDOWN	TOWER	1349
8	H-I-L	AAO	1726
10	MISSED HOLDING	TOWER	2485



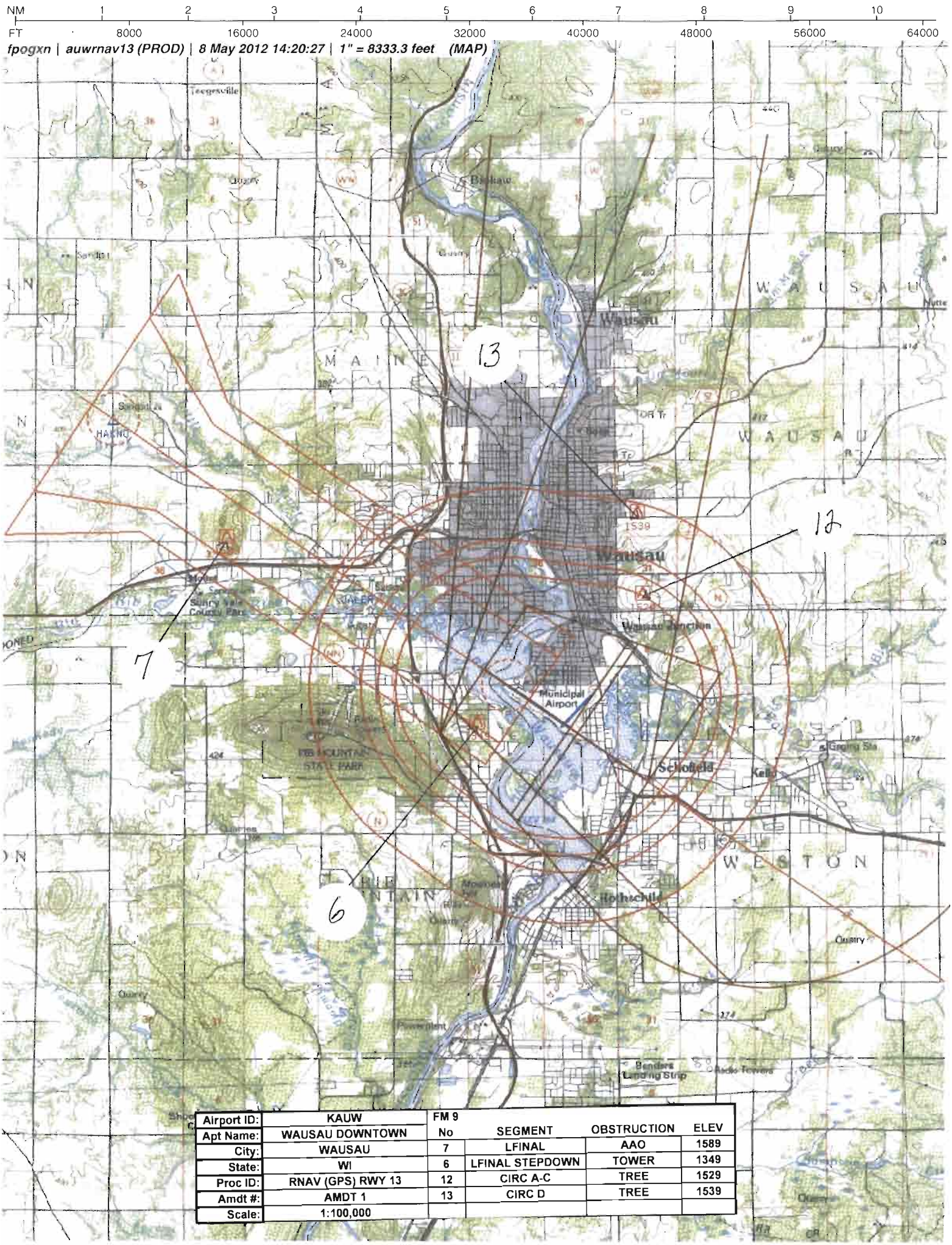
Airport ID:	KAUW	FM 9			
Apt Name:	WAUSAU DOWNTOWN	No	SEGMENT	OBSTRUCTION	ELEV
City:	WAUSAU		PFINAL	ASC	
State:	WI				
Proc ID:	RNAV (GPS) RWY 13				
Amdt #:	AMDT 1				
Scale:	1:100,000				



Airport ID:	KAUW
Apt Name:	WAUSAU DOWNTOWN
City:	WAUSAU
State:	WI
Proc ID:	RNAV (GPS) RWY 13
Amdt #:	AMDT 1
Scale:	1:100,000

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
6	VFINAL	TOWER	1349



Airport ID:	KAUW
Apt Name:	WAUSAU DOWNTOWN
City:	WAUSAU
State:	WI
Proc ID:	RNAV (GPS) RWY 13
Amdt #:	AMDT 1
Scale:	1:100,000

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
7	LFINAL	AAO	1589
6	LFINAL STEPDOWN	TOWER	1349
12	CIRC A-C	TREE	1529
13	CIRC D	TREE	1539

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
FALET (IF/IAF)	HAKMO (FB)	126.88 / 7.00	3000
HAKMO (FAF)	JALER/2.10 NM TO RW13 (FB)	126.97 / 3.44	
JALER/2.10 NM TO RW13	RW13 (MAP) (FO)	127.02 / 2.10	
RW13 (MAP)	1800 MSL	127.02	1800
1800 MSL	ZUPIG (FO)		4000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW13

CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 4000 DIRECT ZUPIG AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 009.55 INBOUND.
CHART FAS OBST: 1349 TOWER 445520N/0893850W
DISTANCE TO THLD FROM 200 HATH: 0.49 NM.
CHART VDP AT 1.15 MILES TO RW13*
*LNAV ONLY.
WAAS CHANNEL # 90330
REFERENCE PATH ID: W13A
LTP HAE: 328.8 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW FALET, RT, 126.88 INBOUND, 3600 FT. IN LIEU OF PT (IAF)
3. FAC: 126.97 FAF: HAKMO DIST FAF TO MAP: 5.54 THLD: 5.54
4. MIN. ALT: FALET 3600, HAKMO 3000, JALER/2.10 NM TO RW13 1900*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3000 GS ALT AT: HAKMO 3000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 43.3 34:1 IS CLEAR
8. MSA FROM:

MAG VAR: 3W EPOCH YEAR: 2015

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	1392	3/4	200	1392	3/4	200	1392	3/4	200	1392	3/4	200			
LNAV/VNAV DA	1530	1 1/8	338	1530	1 1/8	338	1530	1 1/8	338	1530	1 1/8	338			
LNAV MDA	1600	1	408	1600	1	408	1600	1 1/8	408	1600	1 1/8	408			
CIRCLING	1840	1	639	1840	1	639	1840	1 3/4	639	1840	2	639			

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING MOSINEE ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
CHART NOTE: CIRCLING NA SOUTHWEST OF RWY 13-31.
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1201 THRE: 1192 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:RNAV(GPS)RWY12
WAUSAU, WI	WAUSAU DOWNTOWN	RNAV	RNAV (GPS) RWY 13, AMDT 1	AMDT: ORIG-A
				DATED: 3/10/2011

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] **ZMP, AMGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
GRACE NOWAK	**AJV-353**	**05/03/2012**

APPROVED BY

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

CHANGES:

1. AMENDMENT REQUIRED/FPT REQUEST.
2. ADDED LPV AND LNAV-VNAV MINIMA AND NOTES.
3. DELETED IAF SEGMENTS FROM DEKNE AND GELDE AND MISSED APPROACH FIRST FIX AVOKE.
4 ADDED STRAIGHT-IN AND STRAIGHT-IN WITH PT TAA.
5. CHANGED INTERMEDIATE COURSE/DISTANCE FROM 122.87/6.2 TO 123.88/7.00.
6. CHANGED FAF TO SDF COURSE/DISTANCE FROM 122.87/2.46 TO 126.97/3.44.
7. CHANGED SDF TO MAP COURSE/DISTANCE FROM 122.87/3.00 TO 127.02/2.1 AND ALTITUDE CHANGED FROM 2200 TO 1900.
8. CHANGED MISSED APPROACH FROM CLIMB TO 3000 DIRECT AVOKE AND VIA 120 TRACK TO WITEN AND HOLD TO CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 4000 TO ZUPIG AND HOLD.
9. LNAV MDA/VISI/HATH CHANGED FROM CATS A/B 1660-1/465, CAT C 1660-1 1/4/465 AND CAT D 1660-1 1/2/465 TO CATS A/B 1600-1/408, CATS C/D 1600-1 1/8/408.
10. ADDED VDP 1.15 NM TO RWY 13.
11. DELETED PROFILE NOTE "VGSI AND DESCENT ANGLES NOT COINCIDENT."
12. DELETED NOTE "VISIBILITY REDUCTION BY HELICOPTERS NA."
SEE 8260-10

REASONS:

1. MAG VAR CHANGED FROM 1E TO 3W.
2-4, 8. FPO REQUEST.
5. MAG VAR CHANGE/IAW 8260.54A CRITERIA, MINIMUM LEG LENGTH.
6. MAG VAR CHANGE/IAPA CALCULATIONS.
7. MAG VAR CHANGE/NEW CONTROLLING OBSTACLE AND DESCENT GRADIENT.
9. NEW CONTROLLING OBSTACLE AND NEW VISIBILITY CRITERIA.
10. 34:1 IS CLEAR/NEW CONTROLLING OBSTACLE IN SDF SEGMENT.
11. TCH USED IN PROCEDURE BUILD WITHIN 3 FEET OF VGSI TCH.
12. 20:1 AND 34:1 VISUAL AREAS ARE CLEAR.
13. IAW 8260.19E, CHAP 8, PARA 8-55, E-9.

PDF EDITS:
8260-3. TERMINAL ROUTES: ADDED (FAF) NEXT TO HAKMO, DELETED 1900* FOR SDF, DELETED CTA 1800.
8260-10. ARINC: DELETED 020 FROM SEGMENTS HM LEG.
SEE 8260-10

QUALITY CHECKED

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NOTES, (CONT.):
CHART NOTE: VDP NA WITH MOSINEE ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MOSINNE ALTIMETER SETTING AND INCREASE ALL DA 32 FT AND ALL MDA 40 FT; INCREASE LNAV-VNAV ALL CATS VISIBILITY 1/8 MILE AND LNAV AND CIRCLING CATS C/D VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	037/30 CW 217/30 (NOPT)	FALET (IF/IAF) (FB)	3600
2.	217/30 CW 037/30	FALET (IF/IAF) (FO)	3600

QUALITY CHECKED 2

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

COORDINATED WITH:

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

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

CHANGES:

CHANGES CONT.

13. ADDED NOTE "VDP NA WITH MOSINE ALTIMETER SETTING."

REASONS:

REASONS CONT.

8260-10. FLIGHT INSPECTION SUMMARY: DELETED 020 FROM MISSED APPROACH RNP.

QUALITY 2 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAUW
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	445550.1595N
LTP/FTP LONGITUDE	0893821.1470W
LTP/FTP ELLIPSOIDAL HEIGHT	+03288
FPAP LATITUDE	445500.2600N
FPAP LONGITUDE	0893637.2600W
THRESHOLD CROSSING HEIGHT (TCH)	00043.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	E54A22DB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03633
FPAP ORTHOMETRIC HEIGHT	+03633

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1201 THRE: 1192	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:RNAV(GPS)RWY12
WAUSAU, WI	AIRPORT NAME: WAUSAU DOWNTOWN	RNAV	RNAV (GPS) RWY 13, AMDT 1	AMDT: ORIG-A
				DATED: 3/10/2011

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

COORDINATED WITH:

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

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:

APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

QUALITY CHECKED 2

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ARINC PACKET - 424-8 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   FALET K50    W     N45025046W089530044                      W0024     NAR           FALET
        SUSAEAENRT   HAKMO K50    W     N44585612W089444925                      W0025     NAR           HAKMO
        SUSAEAENRT   JALER K50    W     N44570068W089404815                      W0025     NAR           JALER
        SUSAEAENRT   ZUPIG K50    C   L N45094089W089320796                      W0027     NAR           ZUPIG

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUWK5AAUW     0     051YHN44553462W089373721W003001201         1800018000C    MNAR    WAUSAU DOWNTOWN

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUWK5FR13   AFALET 010FALETK5EA0EE AR   HF                    12690040    + 03600     18000                A JS
        SUSAP KAUWK5FR13   R      010FALETK5EA0E  I    IF                                + 03600     18000                A JS
        SUSAP KAUWK5FR13   R      020HAKMOK5EA1E  F 051TF                    12690070    + 03000                          A JS
        SUSAP KAUWK5FR13   R      020HAKMOK5EA2WALPV       ALNAV/VNAV ALNAV                                               JS
        SUSAP KAUWK5FR13   R      021JALERK5EA0E S  031TF                    12700034    V 0190001904        -300         A JS
        SUSAP KAUWK5FR13   R      030RW13 K5PG0GY M 031TF                    12700021      01235             -300         A JS
        SUSAP KAUWK5FR13   R      040        0  M     CA                     1270        + 01800                          A JS
        SUSAP KAUWK5FR13   R      050ZUPIGK5EA0EY  L   DF                               + 04000                          A JS
        SUSAP KAUWK5FR13   R      060ZUPIGK5EA0EE  R   HM                    00960040    + 04000                          A JS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
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                1         2         3         4         5         6         7         8         9         0         1         2         3
PP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAUWK5PR13   RW13 001 0000W13A0N4455501595W08938211470+032880300N4455002600W089363726001067511680000433F400350E54A22DB
        SUSAP KAUWK5PR13   RW13 002E      +03633+03633LPV       90330
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1201 THRE: 1192	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 12
WAUSAU, WI	AIRPORT NAME: **WAUSAU DOWNTOWN**	**RNAV**	**RNAV (GPS) RWY 13, AMDT 1**	AMDT: **ORIG-A**
				DATED: **3/10/2011**

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-8 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	FALET	FALET	010	IAF	HF	R	FO		126.9(123.9T)	004.0	AA 03600	
		FALET	010	FACF	IF		FB				AA 03600	
		HAKMO	020	FAF	TF		FB	0.5	126.9(123.9T)	007.0	AA 03000	
		JALER	021	SDF	TF		FB	0.3	127.0(124.0T)	003.4	AA 01900 GS 01904	
		RW13	030	MAP	TF		FO	0.3	127.0(124.0T)	002.1	AT 01235	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		127.0(124.0T)		AA 01800	
	ZUPIG	050		DF	L	FO				AA 04000	
	ZUPIG	060		HM	R	FO		009.6(006.6T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FALET	N450250.46	W0895300.44	N4502.841	W08953.007
	HAKMO	N445856.12	W0894449.25	N4458.935	W08944.821
	JALER	N445700.68	W0894048.15	N4457.011	W08940.803
	ZUPIG	N450940.89	W0893207.96	N4509.682	W08932.133
	RW13	N445550.16	W0893821.15	N4455.836	W08938.353

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	01192	43

CITY AND STATE	ELEVATION: **1201** **THRE: 1192**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: **RNAV (GPS) RWY 12**
WAUSAU, WI	AIRPORT NAME: **WAUSAU DOWNTOWN**	**RNAV**	**RNAV (GPS) RWY 13, AMDT 1**	AMDT: **ORIG-A**
				DATED: **3/10/2011**

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
STRAIGHT-IN AREA	037/30 CW 217/30	FALET	1. TOWER (55-000485)	452635.00N/0901033.00W	2181 (5E)	1000	AT419	3600
			2. TERRAIN	452448.00N/0892848.00W	1956 (2000)		AS1500	3500
STRAIGHT-IN AREA	217/30 CW 037/30	FALET	3. TOWER (55-000039)	445514.00N/0894129.00W	2549 (4D)	1000		3600
			2. TERRAIN	452448.00N/0892848.00W	1956 (2000)		AS1500	3500
INTERMEDIATE	FALET (IF/IAF)	HAKMO	4. AAO	450012.00N/0895100.00W	1674 (4E)	500	AC98	2300
			5. TERRAIN	450012.00N/0895100.00W	1474 (1500)		AS1500	3000
FINAL: LPV	HAKMO	RW13				ASC		1392/200
FINAL: LNAV/VNAV	HAKMO	RW13	6. TOWER	445519.86N/0893850.14W	1349 (2C)	23.4:1	AC20	1530/338
FINAL: LNAV	HAKMO	JALER/2.10 NM TO RW13	7. AAO	445729.83N/0894256.86W	1589 (2C)	250	RA40 DG21	1900
FINAL: LNAV STEPDOWN	JALER/2.10 NM TO RW13	RW13	6. TOWER	445519.86N/0893850.14W	1349 (2C)	250		1600
2. HOLD-IN-LIEU-OF-PT	FALET	P-5	8. AAO	450618.00N/0895151.00W	1726 (4E)	1000	AT874	3600
			9. TERRAIN	450618.00N/0895151.00W	1526 (1500)		AS1500	3000
3. MISSED APPROACH MAP:	DA / DA / RW13	ZUPIG				ASC		4000
			10. TOWER (55-001449)	450322.00N/0892754.00W	2485 (5D)	1000		3500
ELEV:	1227/1369/1500		11. TERRAIN	451000.00N/0893154.00W	1522 (1500)		AS1500	3000

4. CIRCLING AREA	DISTANCE		REQUIRED		ACTUAL						
		HT. ABV. ARPT.									
CATEGORY A	1.3 NM		350		639	12. TREE	445650.00N/0893608.00W	1529 (2C)	300		1840
CATEGORY B	1.5 NM		450		639	12. TREE	445650.00N/0893608.00W	1529 (2C)	300		1840
CATEGORY C	1.7 NM		450		639	12. TREE	445650.00N/0893608.00W	1529 (2C)	300		1840
CATEGORY D	2.3 NM		550		639	13. TREE	445747.00N/0893614.00W	1539 (2C)	300		1840
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
WAUSAU, WI	ELEVATION: 1201 AIRPORT NAME: WAUSAU DOWNTOWN	RNAV	RNAV (GPS) RWY 13, AMDT 1	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZMP ARTCC **GRB FSS** SATISFACTORY ON:	NWS / FAA / A/C — OTHER: **ASOS**	SOURCE: **KAUW / KCWA** DISTANCE: **0 / 9.08** HOURS REMOTE OPERATION: **24 / BACKUP**
X VHF X UHF HF	LOCATION:	ADJUSTMENT: **0 / 40**

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

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
	MALS
	HIRL
X	**MIRL 05 (PCL), 31 (PCL), 13 (PCL), 23 (PCL)**
X	**REIL 31 (PCL), 13 (PCL)**
	TDZ
	C/LINE
X	**OTHER (SPECIFY)** **PAPI-4R 13 (PCL) PAPI-4L 31 (PCL)**

6. RUNWAY MARKINGS	
BASIC	**BSC-G 05, 23**
ALL WEATHER	
INSTRUMENT	**NPI-F 31, 13**

7. RUNWAY VISUAL RANGE	
APPROACH	
MIDFIELD	
ROLL OUT	

8. GLIDE PATH		
GP ANGLE: **3.00**	ELEV RWY THRESHOLD: **1192.0**	
DISTANCE FROM RWY:	ELEV GP ANTENNA:	
	THRESHOLD CROSSING HEIGHT: **43.3**	

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

10. WAIVERS: **NONE**

PART D - PREPARED BY:	DATE:
GRACE NOWAK	**05/03/2012**
TITLE: **AERONAUTICAL INFORMATION SPECIALIST**	OFFICE: **AJV-353**

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI 3.00/43.30

RASS PRESSURE PATTERNS SAME
KAUW 1201, KCWA 1277
RA = 31.56.
SEE ATTACHED AIRSPACE LETTER.

LPV SURFACE: 34:1
LNAV/VNAV SURFACE: 23.4:1

KAUW ASOS ON SERVICE A AND KCWA AWOS ON SERVICE A
HISTORICAL WEATHER DATA WAUSAU DOWNTOWN NOT AVAILABLE
STANDARD ISA DEVIATION USED -30

OBSTACLE FOR ALL INTERMEDIATE SEGMENTS THE SAME

VEGETATION HEIGHT 100 FT AND BOAT/MAST HEIGHT 60 FT PER FPT
25 DEGREE BANK ANGLE USED IN MISSED APPROACH TO HAVE SUFFICIENT LEG LENGTH
#6 1349 TOWER (2001-AGL-8077-OE) 445519.86N/0893850.14W
2C ACCURACY CODE VERIFIED BY TERRAIN AND OBSTACLE DATA TEAM

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FALET **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 450250.46N/0895300.44W **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	NW		WP	306.88	126.88	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	450618.00N/0895151.00W	1726	4E

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 13		1	KAUW	WAUSAU	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX USE.
FIX MOVED 5346.74 FT. NORTHWEST.
UPDATED FIX COORDINATES.
DELETED FAC 1, NO LONGER REQUIRED.
UPDATED HOLDING PATTERN INBOUND COURSE.
HOLDING PATTERN ALTITUDE CHANGED FROM 3000 TO 3600.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN REMARK TO HOLDING RESTRICTIONS.

DEVELOPED BY: **DATE:** 05/02/2012 **OFFICE:** AJV-353 **NAME:** GRACE NOWAK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAKMO **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 445856.12N/0894449.25W **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 13			KAUW	WAUSAU	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX USE.
FIX MOVED 507.04 FT.
UPDATED FIX COORDINATES.
DELETED FAC 1, NO LONGER REQUIRED.

DEVELOPED BY: **DATE:** 05/02/2012 **OFFICE:** AJV-353 **NAME:** GRACE NOWAK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JALER **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 445700.68N/0894048.15W **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 13			KAUW	WAUSAU	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UDATED FIX USE.
FIX MOVED 5468.89 FT SOUTHEAST.
UPDATED FIX COORDINATES.
DELETED FAC 1, NO LONGER REQUIRED.

DEVELOPED BY: **DATE:** 05/02/2012 **OFFICE:** AJV-353 **NAME:** GRACE NOWAK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUPIG **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 450940.89N/0893207.96W **TYPE:** WP, 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	WAUSAU	AUW	VORTAC	L	004.55	006.55	19.00	19.00		4000	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	189.55	009.55	R		4	4000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-001449)	450322.00N/0892754.00W	2485	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V63	1				(US)
IAP	RNAV (GPS) RWY 13		1	KAUW	WAUSAU	WI (US)
IAP	RNAV (GPS) RWY 31		1	KAUW	WAUSAU	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX USE.
ADDED WP TO FIX TYPE.
RAISED MRA FROM 3600 TO 4000.
ADDED HOLDING PATTERN.
ADDED HOLDING LIMITED TO ESTABLISHED PATTERN REMARK.
ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.

DEVELOPED BY: **DATE:** 04/27/2012 **OFFICE:** AJV-353 **NAME:** GRACE NOWAK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WAUSAU** STATE: **WI**

AIRPORT NAME: **WAUSAU DOWNTOWN** ID: **KAUW**

PROCEDURE: **RNAV (GPS) RWY 13** AMDT: **1**

DOCKET#: **NOT REQUIRED**
(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 (Enter THLD, FAF, ARP, FACILITY, as appropriate)	**THLD**	to 1000' point	**3.66**
2. Width of (Enter appropriate segment, final, intermediate, etc.)	**FINAL**	segment at 1000' point	**1.20**
3. True Course of	**FINAL**	segment containing 1000' point	**123.97**
4. High Terrain in	**FINAL**	segment containing 1000' point	**1381**
5. Distance from (If 1500' point in PT maneuvering area or holding pattern note in remarks)	**THLD**	to 1500' point	**5.34**
6. Width of	**FINAL**	segment at 1500' point	**1.95**
7. True Course of	**FINAL**	segment containing 1500' point	**123.97**
8. High Terrain in	**FINAL**	segment containing 1500' point	**1381**

9. Threshold Coordinates (if straight-in) ... **445550.16N** / **0893821.15W**

10. ARP Coordinates ..... **445534.62N** / **0893737.21W**

11. Runway Approach End and distance furthest from ARP ..... RWY **13**

Distance **0.58** NM

12. FAF Coordinates ..... **445856.12N** / **0894449.25W**

REMARKS: Approach/Drawing attached.

FALET 450250.46N-0895300.44W (STRAIGHT-IN TAA)

Federal Aviation Administration

Memorandum

Date:

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

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

Subject: **ACTION:** Magnetic Variation Change

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

RNAV (GPS) RWY 13, AMDT 1
RNAV (GPS) RWY 31, ORIG
TAKEOFF MINIMUMS AND OBSTACLE DP, AMDT 6

Estimated Chart Date: 09/20/2012

Runway Numbers are affected with the airport rotation; 4/22 change to 5/23 and 12/30 change to 13/31.

Please publish these changes in the National Flight Data Digest.

WISCONSIN

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Wausau	Wausau Downtown	Airport	KAUW / AUW	Old 1° East New 3° West	2015

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

cc: FTW-FPT, AVJ-3rf
AJV-353; LStrout :sbj::x7537:04/03/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Request Change for Wausau, WI (KAUW) 4-3-12
Requestor:REverhartJolson, AJW-3762:CTerrell