Flight Procedure Tracking Form

Action:	Task Type:	Date Open:	Task #:	Request #:
FLIGHT CHECK	IAP	09/01/2011	200806231392872900 4	20080623139287

Procedure:	Airport ID:	Airport:	Reimbursable #:
RNAV (GPS) RWY 30 ORIG	KEZS	SHAWANO MUNI	

City:	ST:	GPS #:	Estimated Chart Date:	FICO #:
SHAWANO	WI		07/26/2012	

Fac ID:	Fac. Type:	Specialist:
	LPV	DAVID DANNER

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/31/2012	04/10/2012	STEVEN SZUKALA	
QA:	04/10/2012	04/10/2012	STEVEN SZUKALA	
Liaison:	04/10/2012		Alfonso	

21

Procedure Comments: **Remark Type:** INFORMATION

pg 1 of 2

SHAWANO, WI SHAWANO MUNI (KEZS) RNAV (GPS) RWY 30, ORIG (LPV) ENROUTE-NO FC: 6.12.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BASBY, REV 1; HISAV, ORIG; ZASRU, ORIG.

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

WAAS	APP CRS	Rwy Idg	3899
CH 77729	295°	THRE	810
W30A		Apt Elev	813

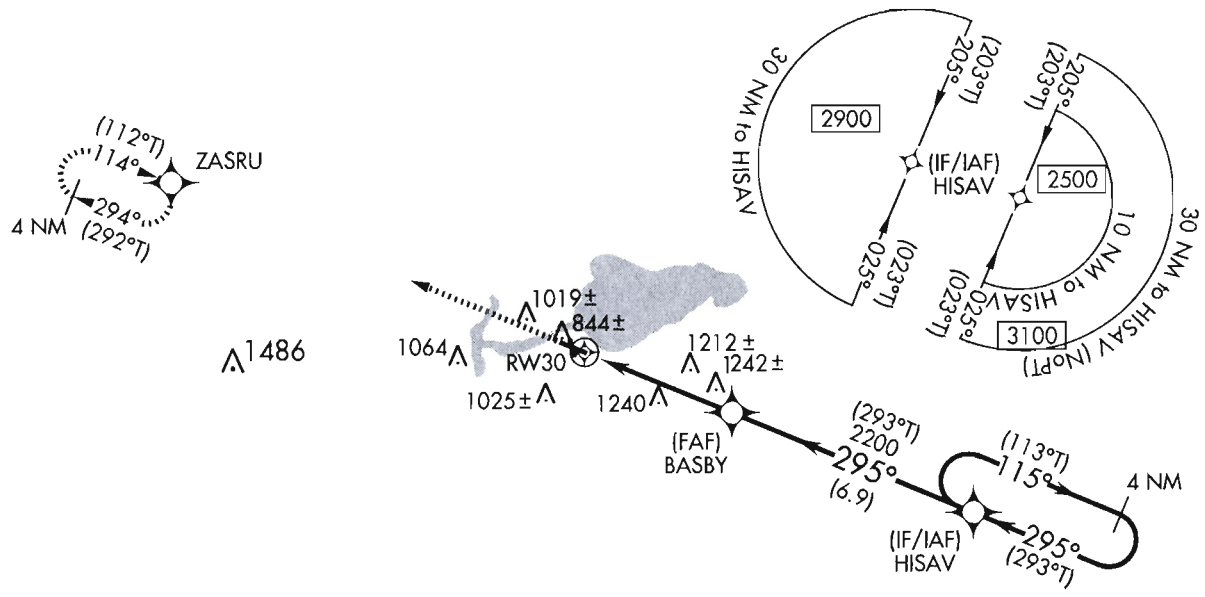
RNAV (GPS) RWY 30
SHAWANO MUNI (EZS)

Baro-VNAV NA when using Green Bay altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 39°C (102°F). DME/DME RNP-0.3 NA.

Visibility reduction by helicopters NA. Straight-in/Circling Rwy 30 procedure NA at night. Circling to Rwy 12 and 35 NA at night. When local altimeter setting not received, use Green Bay altimeter setting and increase all DA 77 feet and all MDA 80 feet and increase LPV all Cats, LNAV/VNAV all Cats, LNAV Cat B, and Circling Cats B and D visibility ¼ mile, increase LNAV Cat C and D and Circling Cat C visibility ½ mile.

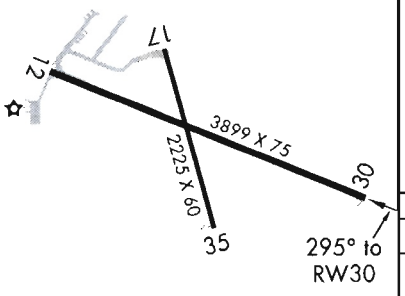
MISSED APPROACH: Climb to 2700 direct ZASRU and hold.

AWOS-3	GREEN BAY APP CON ★	GCO	UNICOM
118.65	119.4 338.2	121.725	122.8 (CTAF) L



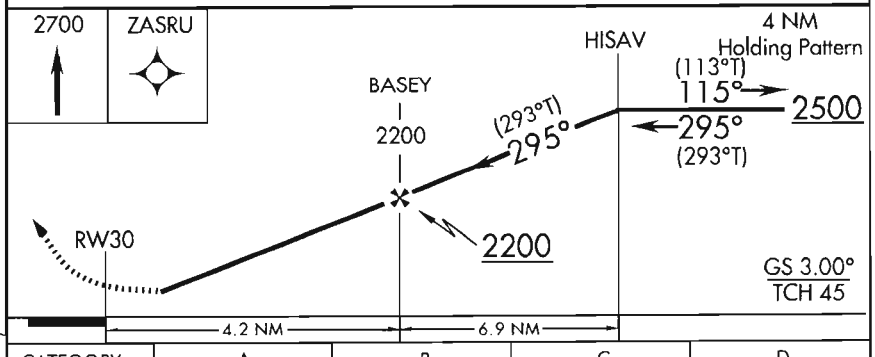
BASBY: N4445.498/W08827.699
HISAV: N4442.843/W08818.764
ZASRU: N4451.604/W08848.448
RW30: N4447.117/W08833.173

ELEV 813 | THRE 810



MIRL Rwy 12-30 and 17-35 L

PROTOTYPE-NOT FOR NAVIGATION



CATEGORY	A	B	C	D
LPV DA	1097-1 287 (300-1)			
LNAV/VNAV DA	1456-2¼ 646 (700-2¼)			
LNAV MDA	1500-1 690 (700-1)		1500-2 690 (700-2)	
CIRCLING	1500-1 687 (700-1)		1500-2 687 (700-2)	1560-2½ 747 (800-2½)

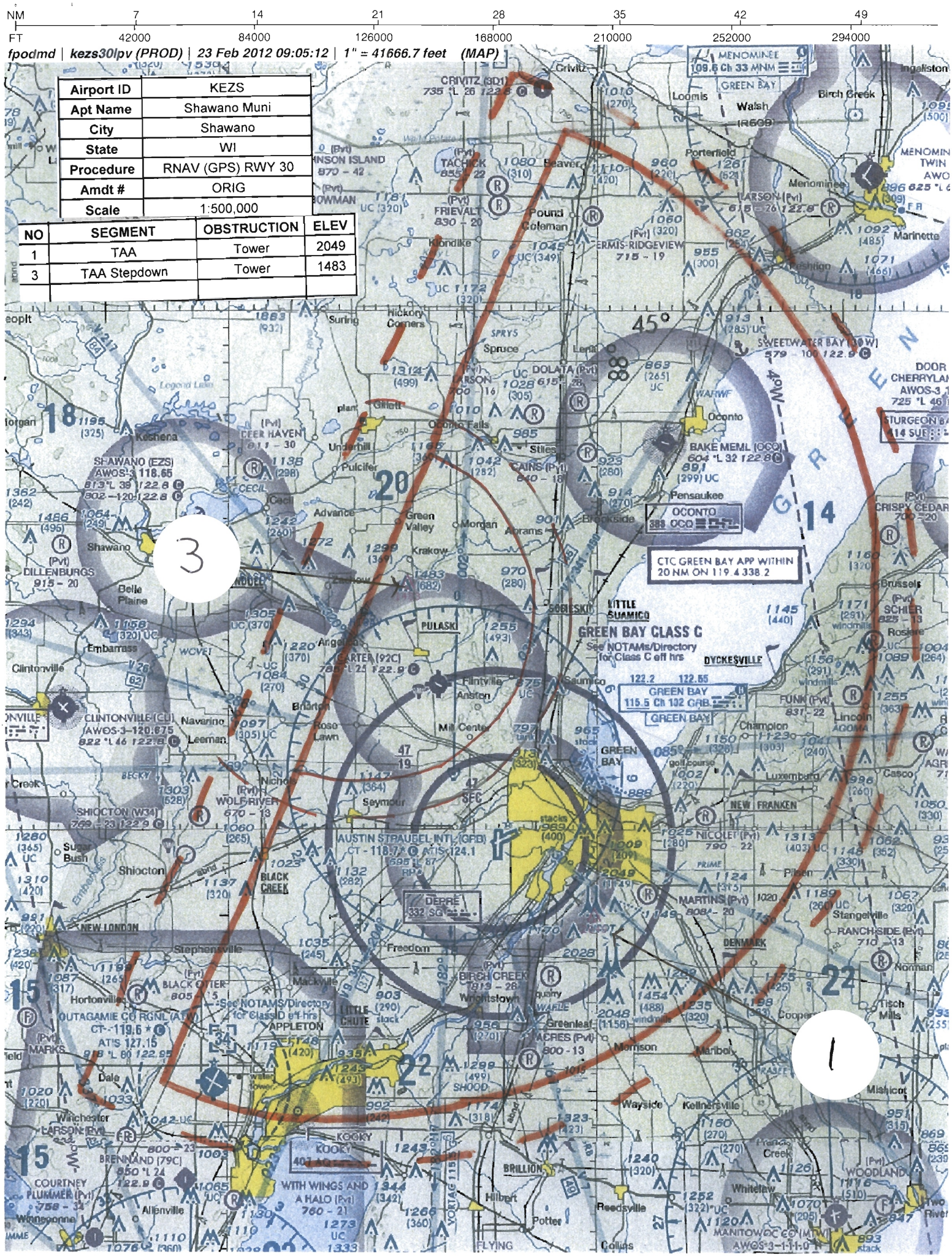
NM 7 14 21 28 35 42 49

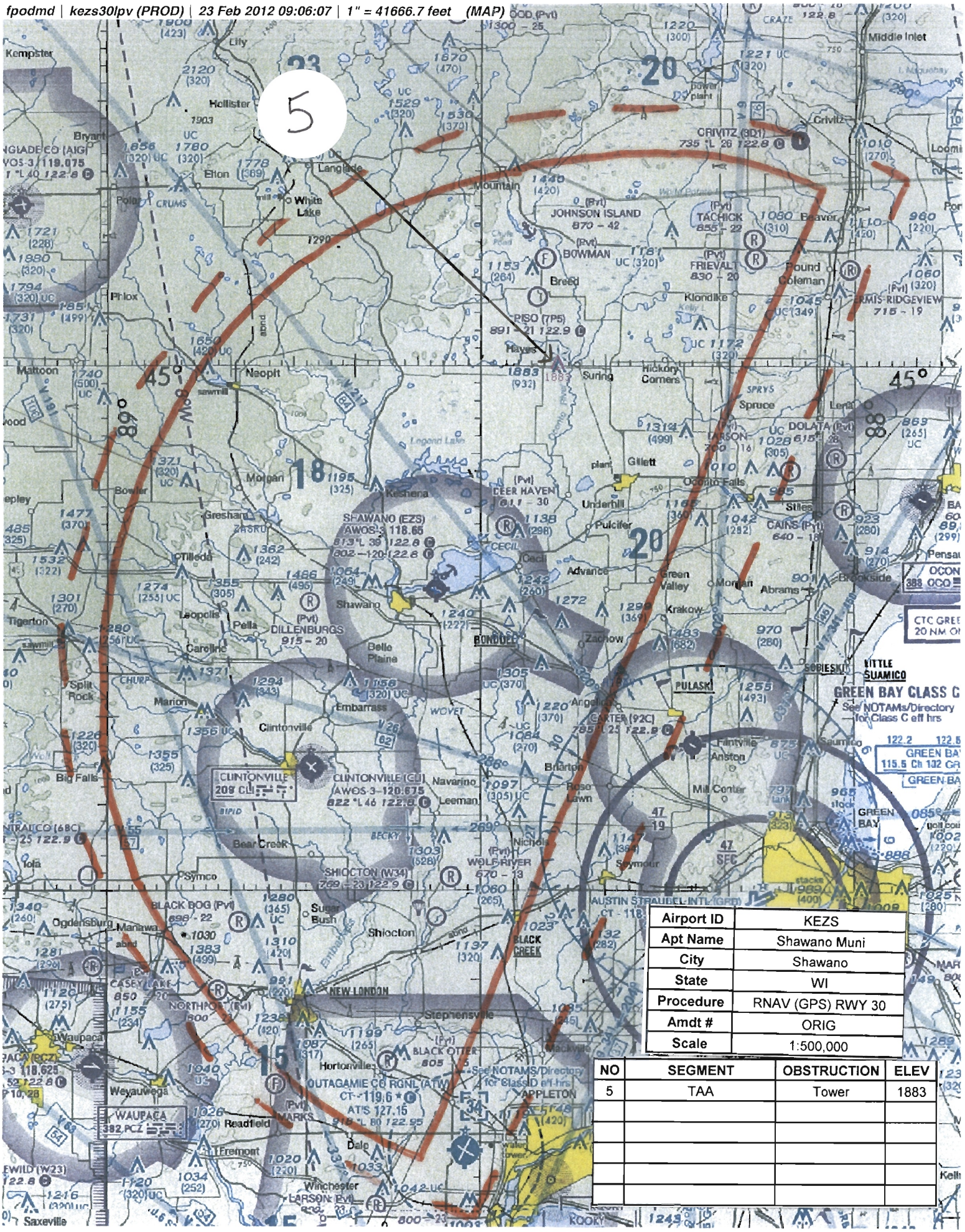
FT 42000 84000 126000 168000 210000 252000 294000

fpodmd | kezs30lpv (PROD) | 23 Feb 2012 09:05:12 | 1" = 41666.7 feet (MAP)

Airport ID	KEZS
Apt Name	Shawano Muni
City	Shawano
State	WI
Procedure	RNAV (GPS) RWY 30
Amdt #	ORIG
Scale	1:500,000

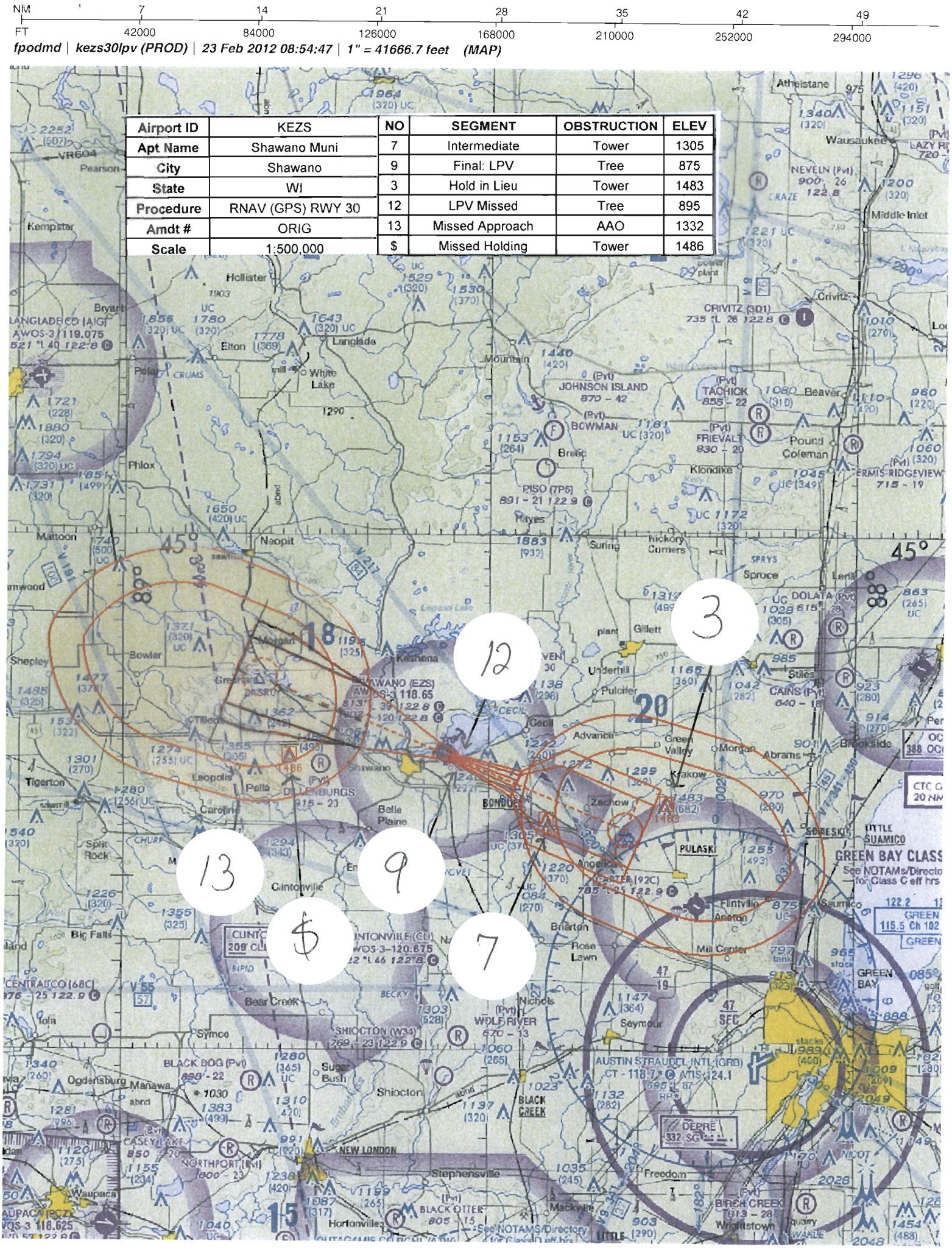
NO	SEGMENT	OBSTRUCTION	ELEV
1	TAA	Tower	2049
3	TAA Stepdown	Tower	1483

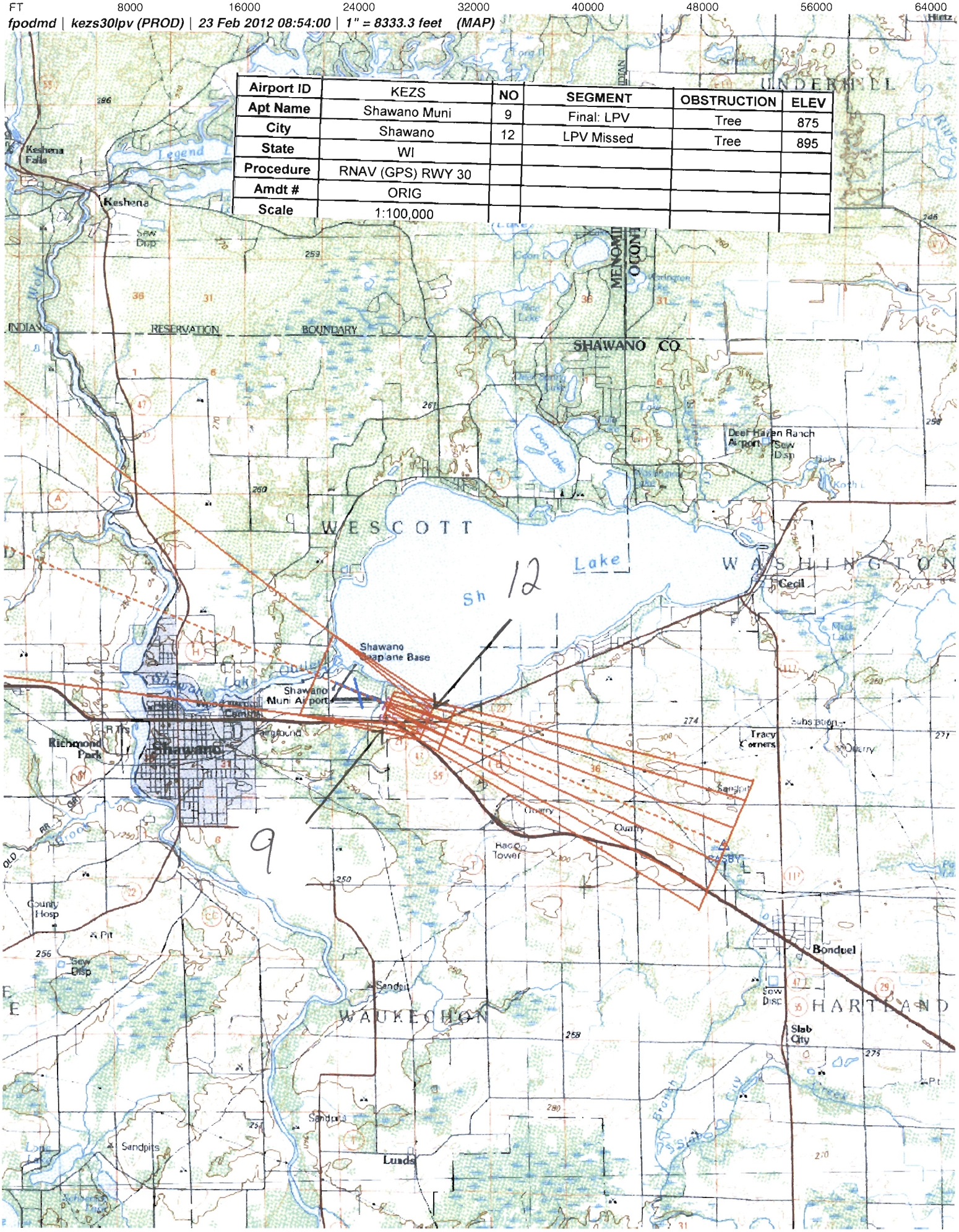


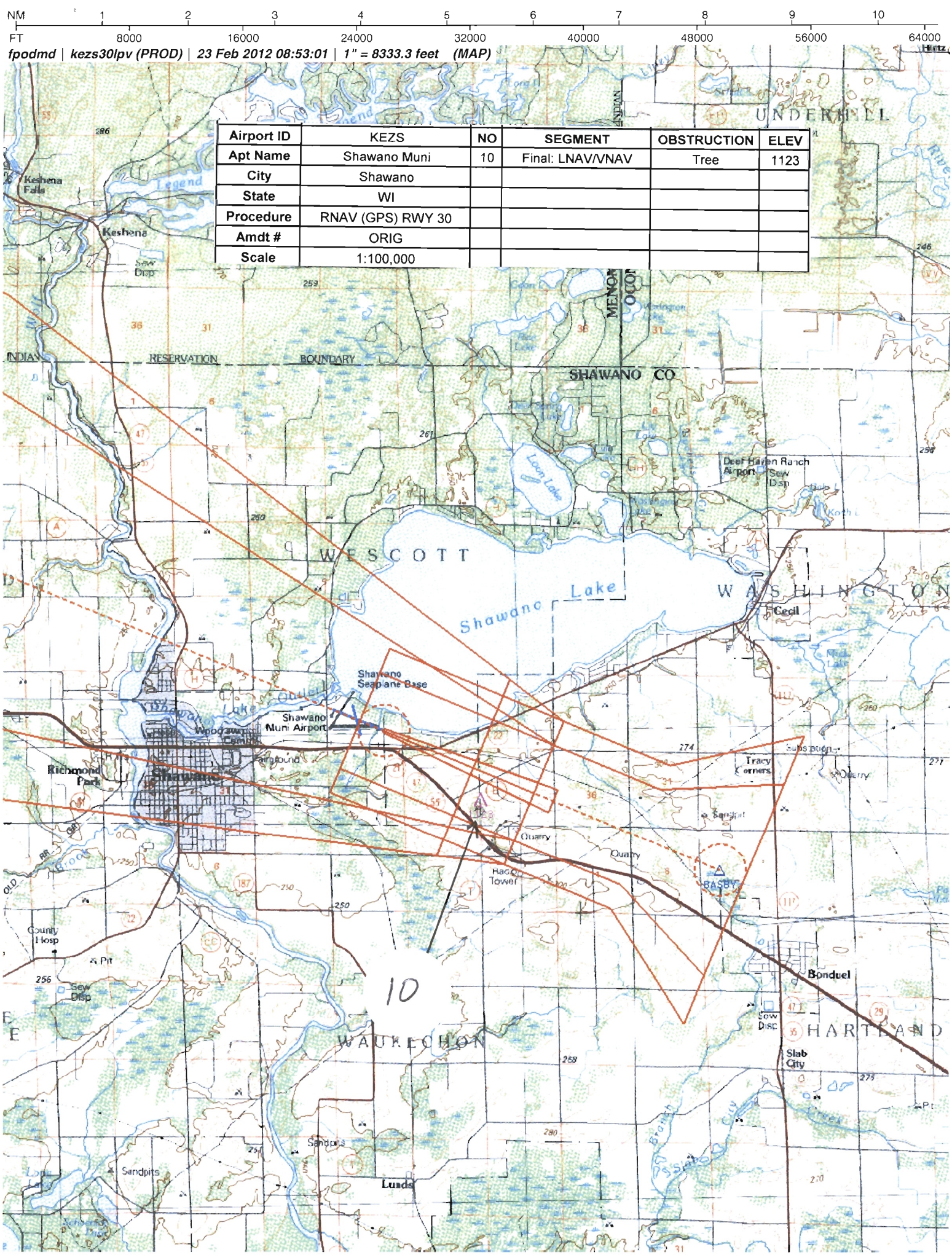


Airport ID	KEZS
Apt Name	Shawano Muni
City	Shawano
State	WI
Procedure	RNAV (GPS) RWY 30
Amdt #	ORIG
Scale	1:500,000

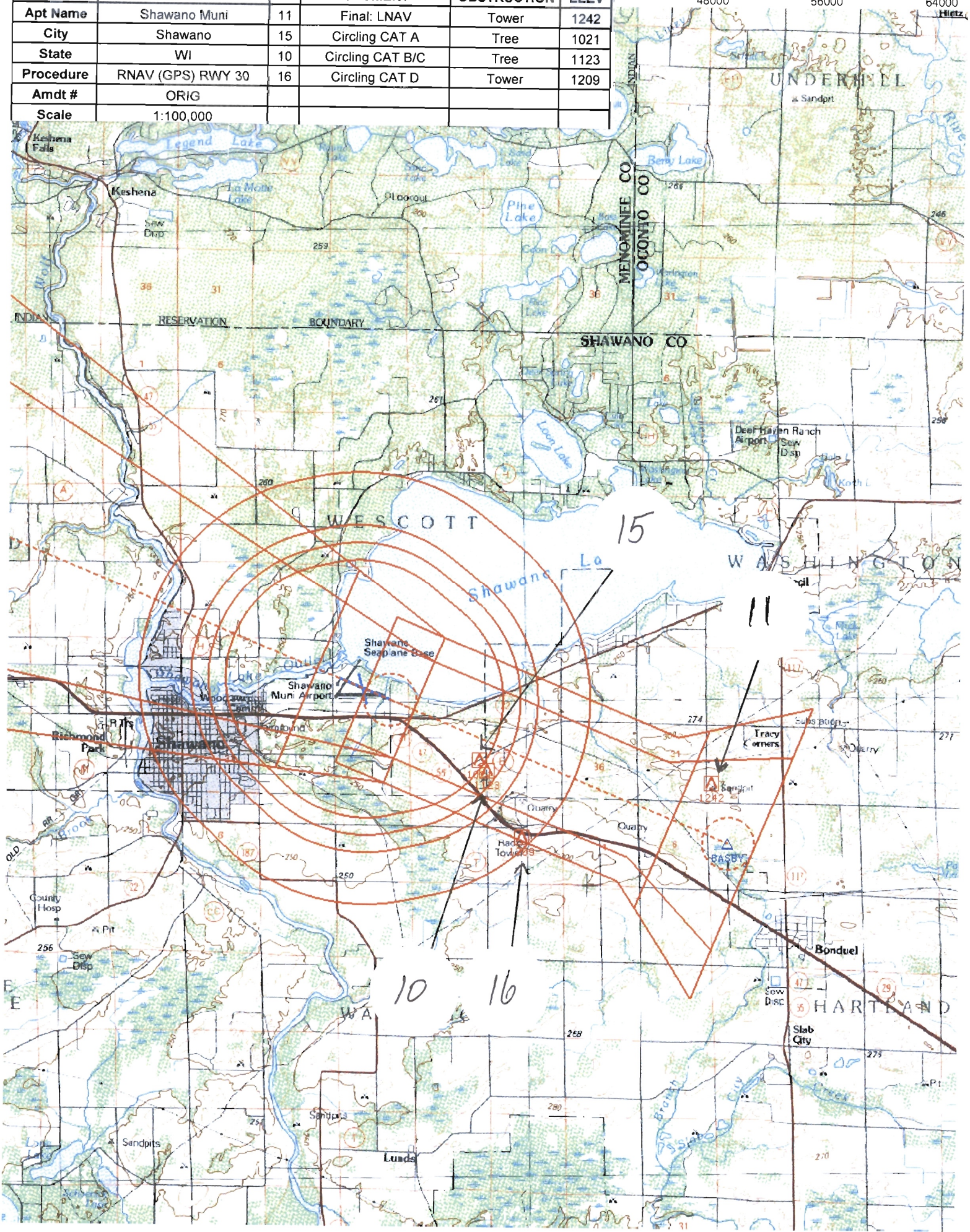
NO	SEGMENT	OBSTRUCTION	ELEV
5	TAA	Tower	1883


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fpodmd | kezs30lpv (PROD) | 23 Feb 2012 08:54:47 | 1" = 41666.7 feet (MAP)
Airport ID KEZS
Apt Name Shawano Muni
City Shawano
State WI
Procedure RNAV (GPS) RWY 30
Amdt # ORIG
Scale 1:500,000
NO SEGMENT OBSTRUCTION ELEV
7 Intermediate Tower 1305
9 Final: LPV Tree 875
3 Hold in Lieu Tower 1483
12 LPV Missed Tree 895
13 Missed Approach AAO 1332
$ Missed Holding Tower 1486
45°
18
20
15
SHAWANO (EZS)
AUSTIN STRAUBEL INTL (GRB)
GREEN BAY CLASS
See NOTAMs/Directory


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpodmd | kezs30lpv (PROD) | 23 Feb 2012 08:54:00 | 1" = 8333.3 feet (MAP)
Airport ID KEZS
Apt Name Shawano Muni
City Shawano
State WI
Procedure RNAV (GPS) RWY 30
Amdt # ORIG
Scale 1:100,000
NO SEGMENT OBSTRUCTION ELEV
9 Final: LPV Tree 875
12 LPV Missed Tree 895
Keshena Falls
Keshena
INDIAN RESERVATION BOUNDARY
SHAWANO CO
WESCOTT
Lake
WASHINGTON
Cecil
Shawano Seaplane Base
Shawano Muni Airport
Richmond Park
Shawano
Tracy Corners
Bonduel
HARTLAND
WAUKECHON
Slab City
Lunds
Sandpits
County Hosp
Deer Haven Ranch Airport
Loon Lake
Sh 12
9


NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpodmd | kezs30lpv (PROD) | 23 Feb 2012 08:53:01 | 1" = 8333.3 feet (MAP)
Airport ID | KEZS | NO | SEGMENT | OBSTRUCTION | ELEV
Apt Name | Shawano Muni | 10 | Final: LNAV/VNAV | Tree | 1123
City | Shawano
State | WI
Procedure | RNAV (GPS) RWY 30
Amdt # | ORIG
Scale | 1:100,000
UNDERHILL
Keshena Falls
Keshena
Legend
RESERVATION BOUNDARY
SHAWANO CO
Loon Lake
Deer Haven Ranch Airport
WESCOTT
Shawano Lake
WASHINGTON
Cecil
Shawano Seaplane Base
Shawano Muni Airport
Richmond Park
Tracy Corners
Quarry
Radio Tower
BASBY
County Hosp
Bonduel
HARTLAND
Slab City
WAUKECHON
Sandpits
Lunds
10

Airport ID	KEZS	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	Shawano Muni	11	Final: LNAV	Tower	1242
City	Shawano	15	Circling CAT A	Tree	1021
State	WI	10	Circling CAT B/C	Tree	1123
Procedure	RNAV (GPS) RWY 30	16	Circling CAT D	Tower	1209
Amdt #	ORIG				
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
HISAV (IF/IAF)	BASBY (FB)	294.69 / 6.90	2200
BASBY (FAF)	RW30 (MAP) (FO)	294.58 / 4.22	
RW30 (MAP)	1097 MSL	294.58	
1097 MSL	ZASRU (FO)		2700

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

CLIMB TO 2700 DIRECT ZASRU AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 114.34 INBOUND.
CHART FAS OBST: 1242 TOWER 444607N/0882758W
DISTANCE TO THLD FROM 287 HATH: 0.76 NM.
WAAS CHANNEL # 77729
REFERENCE PATH ID: W30A
LTP HAE: 210.9 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE HISAV, RT, 294.69 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 294.58 FAF: BASBY DIST FAF TO MAP: 4.22 THLD: 4.22
4. MIN. ALT: HISAV 2500, BASBY 2200
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2200 GS ALT AT: BASBY 2200 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 2W 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	1097	1	287	1097	1	287	1097	1	287	1097	1	287			
LNAV/VNAV DA	1456	2 1/4	646	1456	2 1/4	646	1456	2 1/4	646	1456	2 1/4	646			
LNAV MDA	1500	1	690	1500	1	690	1500	2	690	1500	2	690			
CIRCLING	1500	1	687	1500	1	687	1500	2	687	1560	2 1/2	747			

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING GREEN BAY ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 39C (102F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
(SEE FORM 8260-10)

@ CAT D 800-2 1/2
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 813 THRE: 810 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
SHAWANO, WI	SHAWANO MUNI	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED

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, GRB APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
JILL OLSON (DAVID DANNER)	**AJV-353**	**02/08/2012**

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

CHANGES:

ORIGINAL PROCEDURE

REASONS:

FPT REQUEST

QUALITY 2 CHECKED

NOTES, (CONT.):
CHART NOTE: STRAIGHT-IN/CIRCLING RWY 30 PROCEDURE NA AT NIGHT.
CHART NOTE: CIRCLING TO RWY 12 AND 35 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREEN BAY ALTIMETER SETTING AND INCREASE ALL DA 77 FEET AND ALL MDA 80 FEET AND INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS, LNAV CAT B, AND CIRCLING CATS B AND D VISIBILITY 1/4 MILE, INCREASE LNAV CAT C AND D AND CIRCLING CAT C VISIBILITY 1/2 MILE.

TAA

	FROM	TO	ALT
1.	205/30 CW 025/30 (NOPT)	205/10 CW 025/10	3100
2.	205/10 CW 025/10	HISAV (IF/IAF) (FB)	2500
3.	025/30 CW 205/30	HISAV (IF/IAF) (FO)	2900

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 813 THRE: 810	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SHAWANO, WI	AIRPORT NAME: SHAWANO MUNI	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEZS
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	444707.0155N
LTP/FTP LONGITUDE	0883310.3600W
LTP/FTP ELLIPSOIDAL HEIGHT	+02109
FPAP LATITUDE	444741.1300N
FPAP LONGITUDE	0883505.9400W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1560
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6EB306E8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02470
FPAP ORTHOMETRIC HEIGHT	+02470

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 813 THRE: 810	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SHAWANO, WI	AIRPORT NAME: SHAWANO MUNI	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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 2 CHECKED

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BASBY K50    W     N44452987W088274193                    W0035     NAR           BASBY
        SUSAEAENRT   HISAV K50    W     N44425056W088184586                    W0036     NAR           HISAV
        SUSAEAENRT   ZASRU K50    W     N44513626W088482685                    W0032     NAR           ZASRU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEZSK5AEZS     0     038YHN44471430W088333605W002000813         1800018000C    MNAR    SHAWANO MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEZSK5FR30   AHISAV 010HISAVK5EA0EE AR   HF                    29470040    + 02500     18000                A JS
        SUSAP KEZSK5FR30   R       010HISAVK5EA0E  I    IF                                + 02500     18000                A JS
        SUSAP KEZSK5FR30   R       020BASBYK5EA1E  F 051TF                    29470069    + 02200                          A JS
        SUSAP KEZSK5FR30   R       020BASBYK5EA2WALPV       ALNAV/VNAV ALNAV                                               JS
        SUSAP KEZSK5FR30   R       030RW30 K5PG0GY M 031TF                    29460042      00855           -300           A JS
        SUSAP KEZSK5FR30   R       040         0  M     CA                    2946        + 01097                          A JS
        SUSAP KEZSK5FR30   R       050ZASRUK5EA0EY      DF                              + 02700                          A JS
        SUSAP KEZSK5FR30   R       060ZASRUK5EA0EE  R   HM                    11430040    + 02700                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEZSK5GRW30    0038992945 N44470702W088331036+0000    +02109008100000450 75R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEZSK5PR30   RW30 001 0000W30A0N4447070155W08833103600+021090300N4447411300W088350594001067515600004 50F4005006EB306E8
        SUSAP KEZSK5PR30   RW30 002E      +02470+02470LPV       77729
```

CITY AND STATE	ELEVATION: 813 THRE: 810	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SHAWANO, WI	AIRPORT NAME: SHAWANO MUNI	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HISAV	HISAV	010	IAF	HF	R	FO		294.7(292.7T)	004.0	AA 02500	
		HISAV	010	FACF	IF		FB				AA 02500	
		BASBY	020	FAF	TF		FB	0.5	294.7(292.7T)	006.9	AA 02200	
		RW30	030	MAP	TF		FO	0.3	294.6(292.6T)	004.2	AT 00855	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		294.6(292.6T)		AA 01097	
	ZASRU	050		DF		FO				AA 02700	
	ZASRU	060		HM	R	FO		114.3(112.3T)	004.0	AA 02700	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BASBY	N444529.87	W0882741.93	N4445.498	W08827.699
	HISAV	N444250.56	W0881845.86	N4442.843	W08818.764
	ZASRU	N445136.26	W0884826.85	N4451.604	W08848.448
	RW30	N444707.02	W0883310.36	N4447.117	W08833.173

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30	00810	45

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: **813** **THRE: 810**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SHAWANO, WI	AIRPORT NAME: **SHAWANO MUNI**	**RNAV**	**RNAV (GPS) RWY 30, ORIG**	AMDT: **NONE**
				DATED:

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	205/30 CW 025/30	205/10 CW 025/10	1. TOWER (55-000034)	442435.00N/0880005.00W	2049 (2C)	1000		3100
			2. TERRAIN	441654.00N/0880130.00W	1014 (1000)		AS1500	2500
STRAIGHT-IN AREA	205/10 CW 025/10	HISAV	3. TOWER (55-001328)	444358.06N/0881521.48W	1483 (2C)	1000		2500
			4. TERRAIN	443857.00N/0882124.00W	926 (900)		AS1500	2400
STRAIGHT-IN AREA	025/30 CW 205/30	HISAV	5. TOWER (55-000248)	445950.00N/0882349.00W	1883 (5D)	1000		2900
			6. TERRAIN	450009.00N/0885218.00W	1326 (1300)		AS1500	2800
INTERMEDIATE	HISAV (IF/IAF)	BASBY	7. TOWER (55-020017)	444305.17N/0882512.61W	1305 (4D)	500	AT395	2200
			8. TERRAIN	444441.00N/0882339.00W	1032 (1000)		AS1000	2000
FINAL: LPV	BASBY	RW30	9. TREE (KEZST0112)	444702.13N/0883307.78W	875 (1A)	34:1	MA37	1097/287
FINAL: LNAV/VNAV	BASBY	RW30	10. TREE (KEZST0690)	444614.14N/0883135.57W	1123 (1B)	23.44:1	AC10	1456/646
FINAL: LNAV	BASBY	RW30	11. TOWER (55-001059)	444606.90N/0882757.80W	1242 (3C)	250		1500
2. HOLD-IN-LIEU-OF-PT	HISAV	P-5	3. TOWER (55-001328)	444358.06N/0881521.48W	1483 (2C)	1000		2500
			8. TERRAIN	444441.00N/0882339.00W	1032 (1000)		AS1500	2500
3. MISSED APPROACH MAP:	DA / DA / RW30	ZASRU	12. TREE (KEZST0621)	444655.36N/0883230.73W	895 (1A)	ASC		2700
			13. AAO	444951.00N/0884921.00W	1332 (4E)	1000		2400
ELEV:	894/1295/1400		14. TERRAIN	444951.00N/0884921.00W	1132 (1100)		AS1500	2600
15. TREE (KEZST0669)	444621.44N/0883142.42W	1021 (1A)	300	SI	1500
10. TREE (KEZST0690)	444614.14N/0883135.57W	1123 (1B)	300	SI	1500
10. TREE (KEZST0690)	444614.14N/0883135.57W	1123 (1B)	300	SI	1500
16. TOWER	444527.82N/0883101.44W	1209 (4D)	300	AC50	1560

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350	687	
CATEGORY B	1.5 NM	450	687	
CATEGORY C	1.7 NM	450	687	
CATEGORY D	2.3 NM	550	747	
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

CITY AND STATE	ELEVATION: 813 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SHAWANO, WI	SHAWANO MUNI	RNAV	RNAV (GPS) RWY 30, ORIG	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
GRB APP CON ZMP ARTCC	N W S	OTHER: AWOS-3	SOURCE: KEZS / KGRB
	F A A		DISTANCE: 0 / 25.88
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KEZS		ADJUSTMENT: 0 / 77

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 17 (PCL), 12 (PCL), 30 (PCL), 35 (PCL)
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC BSC-G 17, 35	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 810.4
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.0

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 (DAVID DANNER)	DATE: 02/08/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KEZS 813, KGRB 695
RA = 76.1.
SEE ATTACHED AIRSPACE LETTER.

100 FT VEGETATION USED PER FPT.

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION.

LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 23.44:1

TERPS, VOLUME 1, PARAGRAPH 3.2.2D, VISUAL PORTION OF FINAL PENETRATIONS:
RWY 30, 20:1:
875 TREE (KEZST0112) 444702.13N/0883307.78W (56.53)
852 TREE (KEZST0088) 444659.74N/0883302.13W (40.08)
895 TREE (KEZST0063) 444706.48N/0883248.90W (22.10)
838 TREE (KEZST0100) 444701.71N/0883305.61W (11.49)
903 TREE (KEZST0038) 444703.94N/0883243.32W (6.59)
817 FENCE (KEZST0118) 444703.42N/0883309.45W (6.59)
872 TREE (KENZST0069) 444657.24N/0883256.31W (5.85)
RWY 30, 34:1:
867 TREE (KEZST0062) 444656.43N/0883254.62W (19.57)
880 TREE (KEZST0050) 444655.42N/0883250.90W (24.13)
878 TREE (KEZST0052) 444657.10N/0883250.36W (22.99)
881 TREE (KEZST0044) 444704.97N/0883244.11W (22.73)
893 TREE (KEZST0019) 444702.95N/0883239.51W (23.41)
903 TREE (KEZST0006) 444703.44N/0883234.80W (24.75)
890 TREE (KEZST0017) 444653.22N/0883244.16W (18.42)
907 TREE (KEZST0614) 444649.86N/0883237.02W (17.60)
(27 PENETRATIONS, 8 WORST PENETRATIONS LISTED)
RWY 12, 20:1:
824 ROAD (KEZST0313) 444725.32N/0883405.04W (0.82)
827 ROAD (KEZST0315) 444721.68N/0883407.28W (3.41)
826 ROAD (KEZST0316) 444722.00N/0883407.29W (1.76)
826 ROAD (KEZST0320) 444722.71N/0883407.30W (0.35)
827 ROAD (KEZST0321) 444722.75N/0883407.30W (1.27)
860 TREE (KEZST0371) 444727.54N/0883410.27W (15.10)
898 TREE (KEZST0449) 444646.23N/0883423.01W (0.57)
RWY 35, 20:1:
900 TREE (KEZST0138) 444646.23N/0883323.00W (2.88)
873 TREE (KEZST0169) 444650.24N/0883328.36W (0.52)
(FPT NOTIFIED OF ALL PENETRATIONS)

REQUEST FLIGHT CHECK ACCURACY OF 4D FOR OBS #7 AND 16. OBS #16 FROM MAP AND OE/AAA STUDY.

RADIO FIX AND HOLDING DATA RECORD

NAME: BASBY **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 444529.87N/0882741.93W **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 30			KEZS	SHAWANO	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
UPDATED FIX USE.
REMOVED FAC 1.
UPDATED FIX COORDIANTES; FIX MOVED 4726.56 FT NORTHWEST.

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HISAV **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 444250.56N/0881845.86W **TYPE:** WP

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

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	SE		WP	114.69	294.69	R		4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-001328)	444358.06N/0881521.48W	1483	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 12		1	KEZS	SHAWANO	WI (US)
IAP	RNAV (GPS) RWY 30		1	KEZS	SHAWANO	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

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

SIGNATURE:

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

QUALITY CHECKED 2

RADIO FIX AND HOLDING DATA RECORD

NAME: ZASRU **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 445136.26N/0884826.85W **TYPE:** WP

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW		WP	294.34	114.34	R		4	2700	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-000897)	444641.98N/0884610.45W	1486	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
MIN HOLDING ALTITUDE BASED ON 1500 FT AIRSPACE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 12		1	KEZS	SHAWANO	WI (US)
IAP	RNAV (GPS) RWY 30		1	KEZS	SHAWANO	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

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

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **SHAWANO** STATE: **WI**

AIRPORT NAME: **SHAWANO MUNI** ID: **KEZS**

PROCEDURE: **RNAV (GPS) RWY 30** AMDT: **ORIG**

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 **3.60**
   (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 **292.58**
4. High Terrain in **FINAL** segment containing 1000' point **1039**
5. Distance from **THLD** to 1500' point **5.90**
   (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 **292.69**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1032**
9. Threshold Coordinates (if straight-in) ... **444707.02N / 0883310.36W**
10. ARP Coordinates ..... **444714.30N / 0883336.05W**
11. Runway Approach End and distance furthest from ARP.....RWY **30**
    Distance **0.33** NM
12. FAF Coordinates ..... **444529.87N / 0882741.93W**
    (Click to Select)

REMARKS: Approach/Drawing attached. HISAV 444250.56N/0881845.86W (STRAIGHT-IN)