Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 11/19/2012	Task #: 2012092625578401003	Request #: 20120926255784
Procedure: RNAV (GPS) RWY 9 AMDT 1		Airport ID: K94K	**Airport:** CASSVILLE MUNI		Reimbursable #:
City: CASSVILLE LPV **ST:** MO		GPS #:		Estimated Chart Date: 08/22/2013	FICO #:
Fac ID:	**Fac. Type:** LPV		**Specialist:** CHRIS OBRIEN		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/14/2013	04/10/2013	JILL OLSON	
QA:	04/10/2013	04/15/2013	CASIMIR TABAKA	
Liaison:	04/15/2013		Spurlin	

pg 1 of 3

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

CASSVILLE, MO CASSVILLE MUNI (K94K) RNAV (GPS) RWY 9, AMDT 1 (LPV) ENROUTE-YES FC: 7.9.13 PUB: 8.22.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): HIRLA, REV 1; INAGE, REV 1; WURUG, ORIG; ZURES, REV 1.

CONTACT: JILL OLSON/MARC SADORRA -AVJ-353 LEADS, 405.954.0414 / 405.954.4546.

CASSVILLE, MISSOURI

AL-6454 (FAA)

WORKING FIG

RNAV (GPS) RWY 9

CASSVILLE MUNI (94K)

WAAS	APP CRS	Rwy Idg 3599
CH 63133	088°	THRE 1479
W09A		Apt Elev 1483

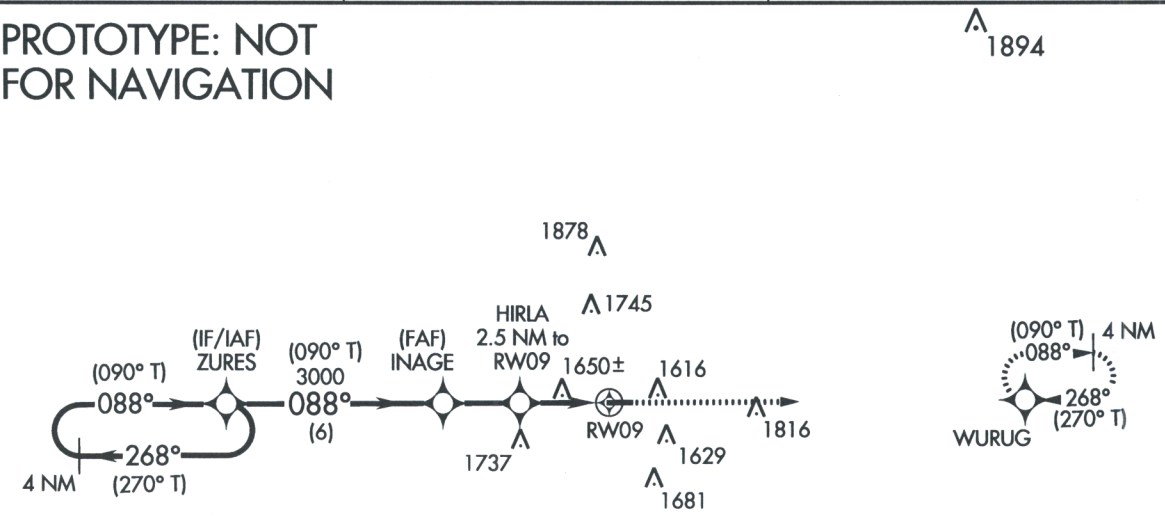
T
A NA

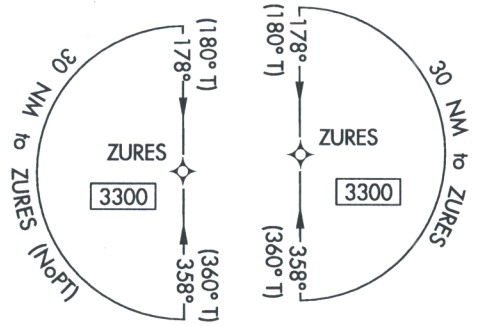
Baro-VNAV NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM not authorized. Procedure NA at night. Use Monett altimeter setting, when not received, use Rogers altimeter setting and increase all DA 13 feet and all MDA 20 feet, and LNAV/VNAV visibility to 1 7/8 mile all cats.

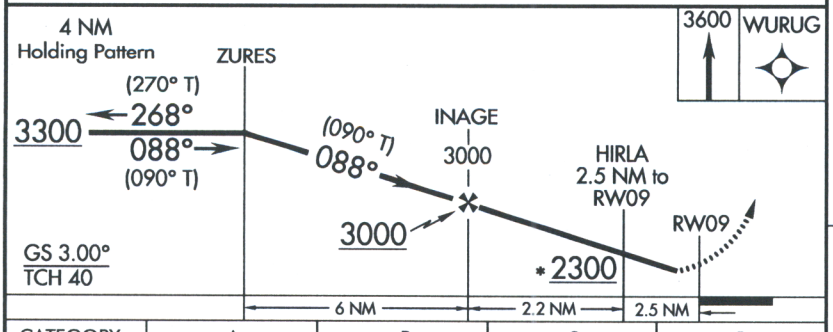
MISSED APPROACH: Climb to 3600 direct WURUG and hold.

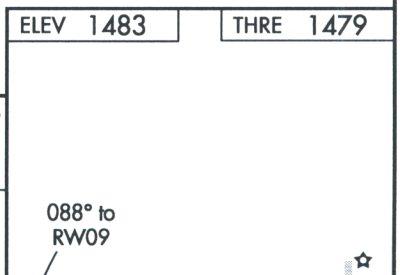
MOFFET AWOS-3	SPRINGFIELD APP CON	CTAF
118.275	124.95 318.2	122.9 L

PROTOTYPE: NOT FOR NAVIGATION









CATEGORY	A	B	C	D
LPV DA	1839-1¼ 360 (400-1¼)			NA
LNAV/VNAV DA	1994-1¾ 515 (600-1¾)			NA
LNAV MDA	1960-1 481 (500-1)		1960-1⅜ 481 (500-1⅜)	NA
C CIRCLING	2000-1 517 (600-1)	2020-1 537 (600-1)	2160-2 677 (700-2)	NA

MIRL Rwy 9-27 L

CASSVILLE, MISSOURI
Amdt 1 WORKING FIG

36°42'N-93°54'W

CASSVILLE MUNI (94K)

RNAV (GPS) RWY 9

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
ZURES (IF/IAF)	INAGE (FB)	087.54 / 6.03	3000
INAGE (FAF)	HIRLA/2.50 NM TO RW09 (FB)	087.61 / 2.15	
HIRLA/2.50 NM TO RW09	RW09 (MAP) (FO)	087.61 / 2.50	
RW09 (MAP)	1839 MSL	087.61	
1839 MSL	WURUG (FO)		3600

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW09

CLIMB TO 3600 DIRECT WURUG AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 267.82 INBOUND.
CHART FAS OBST: 1650 TREE 364202N/0935602W
DISTANCE TO THLD FROM 360 HATH: 1.00 NM.
WAAS CHANNEL # 63133
REFERENCE PATH ID: W09A
CHART MONETT AWOS-3
CHART CIRCLING ICON.
LTP HAE: 422.4 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD W ZURES, RT, 087.54 INBOUND, 3300 FT. IN LIEU OF PT (IAF)
3. FAC: 087.61 FAF: INAGE DIST FAF TO MAP: 4.65 THLD: 4.65
4. MIN. ALT: ZURES 3300, INAGE 3000, HIRLA/2.50 NM TO RW09 2300*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3000 GS ALT AT: INAGE 3000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 2E EPOCH YEAR: 2010

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
LPV DA	1839	1 1/4	360	1839	1 1/4	360	1839	1 1/4	360		NA				
LNAV/VNAV DA	1994	1 3/4	515	1994	1 3/4	515	1994	1 3/4	515		NA				
LNAV MDA	1960	1	481	1960	1	481	1960	1 3/8	481		NA				
CIRCLING	2000	1	517	2020	1	537	2160	2	677		NA				

NOTES:
CHART NOTE: BARO-VNAV NA.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA AT NIGHT.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1483 THRE: 1479	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CASSVILLE, MO	AIRPORT NAME: CASSVILLE MUNI	RNAV	RNAV (GPS) RWY 9, AMDT 1	AMDT: ORIG
				DATED 06/03/2010

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] SGF APP CON, ZKC, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
CHRIS OBRIEN	AJV-353	04/08/2013

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

CHANGES:

1. ADDED LPV AND LNAV/VNAV MINIMUMS.
2. CHANGED LNAV HAT FROM 478 TO HATH 481 ALL CATS, AND CAT C VISIBILITY FROM 1 1/4 TO 1 3/8.
3. FAC CHANGED FROM 087.64 TO 087.61.
4. DIST FAF TO MAP/THLD CHANGED FROM 4.58/4.58 TO 4.65/4.65.
5. CHANGED CIRCLING CAT A MDA/HAA FROM 2000/518 TO 2000/517.
6. CHANGED CIRCLING CAT B MDA/HAA FROM 2000/518 TO 2020/537.
7. CHANGED CIRCLING CAT C MDA/HAA FROM 2000/1 1/2 TO 2160/677 AND VISIBILITY FROM 1 1/2 TO 2.
8. ADDED "CHART CIRCLING ICON" IN ADDITIONAL FLIGHT DATA.
9. ADDED HELICOPTER NA NOTE.
10. REMOVED ALL T INITIALS AND FEEDER ROUTES.
11. ADDED TWO HEMISPHERE TAA.
12. ALTITUDE AT ZURES (IF) CHANGED FROM 3000 TO 3300.
13. MISSED APCH CLEARANCE LIMIT CHANGED FROM JENKY TO WURUG.

REASONS:

1. FPT REQUEST AND NEW SURVEY DATA.
2. TOUCHDOWN CHANGED TO THRESHOLD.
3. PROCEDURE EVALUATION.
4. FAF MOVED TO PFAF LOCATION.

5, 6, 7, 8. ORDER 8260-3, VOLUME 1, CHAPTER 3, NEW CIRCLING CRITERIA APPLIED.

9. 34:1 PENETRATIONS.

10, 11, 13. FPT REQUEST.

12. AIRSPACE REQUIREMENT.

PDF EDITS: TERMINAL ROUTES: ADD (FAF), DELETED STEPDOWN ALT, CHANGED MISSED APCH ALT FROM 1839 TO 3600, LINE 2 CHANGED (IA/IAF) TO (IAF).
(-9): ADD HRS REMOTE OPERATION (24), CHANGED ADJUSTMENT FROM 55/0 TO 55.0/68.0.

QUALITY CHECKED

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NOTES, (CONT.):
CHART NOTE: USE MONETT ALTIMETER SETTING, WHEN NOT RECEIVED, USE ROGERS ALTIMETER SETTING AND INCREASE ALL DA 13 FT AND ALL MDA 20 FT AND LNAV/VNAV ALL CATS VISIBILITY TO 1 7/8 MILE.
*LNAV ONLY

TAA

	FROM	TO	ALT
1.	358/30 CW 178/30 (NOPT)	ZURES (IF/IAF) (FB)	3300
2.	178/30 CW 358/30	ZURES (IF/IAF) (FO)	3300

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1483 THRE: 1479	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CASSVILLE, MO	AIRPORT NAME: CASSVILLE MUNI	RNAV	RNAV (GPS) RWY 9, AMDT 1	AMDT: ORIG
				DATED: 06/03/2010

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	94K
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	364150.5580N
LTP/FTP LONGITUDE	0935423.9870W
LTP/FTP ELLIPSOIDAL HEIGHT	+04224
FPAP LATITUDE	364151.0600N
FPAP LONGITUDE	0935233.2000W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	54AB2792

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04509
FPAP ORTHOMETRIC HEIGHT	+04509

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1483 THRE: 1479 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CASSVILLE, MO	CASSVILLE MUNI	RNAV	RNAV (GPS) RWY 9, AMDT 1	AMDT: ORIG
				DATED: 06/03/2010

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:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
WP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAEAENRT   HIRLA K30    W     N36414965W093573051                    E0017     NAR           HIRLA
          SUSAEAENRT   INAGE K30    W     N36414881W094001084                    E0018     NAR           INAGE
          SUSAEAENRT   WURUG K30    W     N36415367W093395912                    E0015     NAR           WURUG
          SUSAEAENRT   ZURES K30    W     N36414612W094074080                    E0019     NAR           ZURES

          1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP 94K K3A94K     0     035YHN36415070W093540190E002001483         1800018000C    MNAR    CASSVILLE MUNI

          1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP 94K K3FR09   AZURES 010ZURESK3EA0EE AR   HF                    08750040    + 03300     18000              A JS
          SUSAP 94K K3FR09   R      010ZURESK3EA0E  I    IF                                + 03300     18000              A JS
          SUSAP 94K K3FR09   R      020INAGEK3EA1E  F 051TF                    08750060    + 03000                        A JS
          SUSAP 94K K3FR09   R      020INAGEK3EA2WALPV       ALNAV/VNAV ALNAV                                             JS
          SUSAP 94K K3FR09   R      021HIRLAK3EA0E S  031TF                    08760022    V 0230002316        -300       A JS
          SUSAP 94K K3FR09   R      030RW09 K3PG0GY M 031TF                    08760025      01519             -300       A JS
          SUSAP 94K K3FR09   R      040         0  M     CA                    0876        + 01839                        A JS
          SUSAP 94K K3FR09   R      050WURUGK3EA0EY      DF                              + 03600                        A JS
          SUSAP 94K K3FR09   R      060WURUGK3EA0EE  R   HM                    26780040    + 03600                        A JS

          1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP 94K K3GRW09    0035990877 N36415056W093542399-0200    +0422401479000040060R

          1         2         3         4         5         6         7         8         9         0         1         2         3
PP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP 94K K3PR09   RW09 001 0000W09A0N3641505580W09354239870+042240300N3641510600W0935233200010675165600040OF40050054AB2792
          SUSAP 94K K3PR09   RW09 002E      +04509+04509LPV       63133
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 1483 THRE: 1479	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CASSVILLE, MO	AIRPORT NAME: **CASSVILLE MUNI**	**RNAV**	**RNAV (GPS) RWY 9, AMDT 1**	AMDT: **ORIG**
				DATED: **06/03/2010**

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
	ZURES	ZURES	010	IAF	HF	R	FO		087.5(089.5T)	004.0	AA 03300	
		ZURES	010	FACF	IF		FB				AA 03300	
		INAGE	020	FAF	TF		FB	0.5	087.5(089.5T)	006.0	AA 03000	
		HIRLA	021	SDF	TF		FB	0.3	087.6(089.6T)	002.2	AA 02300 GS 02316	
		RW09	030	MAP	TF		FO	0.3	087.6(089.6T)	002.5	AT 01519	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		087.6(089.6T)		AA 01839	
	WURUG	050		DF		FO				AA 03600	
	WURUG	060		HM	R	FO		267.8(269.8T)	004.0	AA 03600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIRLA	N364149.65	W0935730.51	N3641.828	W09357.509
	INAGE	N364148.81	W0940010.84	N3641.814	W09400.181
	WURUG	N364153.67	W0933959.12	N3641.895	W09339.985
	ZURES	N364146.12	W0940740.80	N3641.769	W09407.680
	RW09	N364150.56	W0935423.99	N3641.843	W09354.400

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW09	01479	40

QUALITY A CHECKED

CITY AND STATE	ELEVATION: **1483** THRE: **1479**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CASSVILLE, MO	AIRPORT NAME: **CASSVILLE MUNI**	**RNAV**	**RNAV (GPS) RWY 9, AMDT 1**	AMDT: **ORIG**
				DATED: **06/03/2010**

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	358/30 CW 178/30	ZURES	1. TWR (29-000339)	370433.00N/0943317.00W	2056 (3C)	1000	AT244	3300
			2. TERRAIN	361351.00N/0940918.00W	1523 (1500)		AS1500	3000
STRAIGHT-IN AREA	178/30 CW 358/30	ZURES	3. TWR (05-002191)	362448.06N/0935717.46W	2186 (5E)	1000		3200
			4. TERRAIN	362409.00N/0935503.00W	1815 (1800)		AS1500	3300
INTERMEDIATE	ZURES (IF/IAF)	INAGE	5. AAO	364056.78N/0935956.58W	1699 (2C)	500		2200
			6. TERRAIN	364200.00N/0940127.00W	1470 (1500)		AS1500	3000
FINAL: LPV	INAGE	RW09	7. TREE (K94KT0284)	364152.84N/0935520.20W	1604 (1A)	34:1	MA22 RA55	1839/360
FINAL: LNAV/VNAV	INAGE	RW09	8. TREE (K94KT0288)	364202.17N/0935601.88W	1650 (1A)	23.44:1	RA55	1994/515
FINAL: LNAV	INAGE	HIRLA/2.50 NM TO RW09	9. AAO	364223.10N/0935833.21W	1719 (2C)	250	DG263 RA68	2300
FINAL: LNAV STEPDOWN	HIRLA/2.50 NM TO RW09	RW09	8. TREE (K94KT0288)	364202.17N/0935601.88W	1650 (1A)	250	RA55	1960
2. HOLD-IN-LIEU-OF-PT	ZURES	P-5	10. AAO	364048.00N/0940151.00W	1657 (4E)	1000	AT643	3300
			11. TERRAIN	364048.00N/0940151.00W	1457 (1500)		AS1500	3000
3. MISSED APPROACH MAP:	DA / DA / RW09	WURUG	12. TREE (K94KT0286)	364153.90N/0935520.40W	1604 (1A)	ASC		3600
			13. TWR (29-001709)	364132.00N/0934917.00W	1816 (5E)	1000		2900
ELEV:	1604/1844/1805		14. TERRAIN	364019.96N/0934230.22W	1580 (1600)		AS1500	3100

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	517	15. TREE (K94KT0413)	364228.74N/0935549.67W	1644 (1A)	300	RA55	2000
CATEGORY B	1.5 NM	450	537	8. TREE (K94KT0288)	364202.17N/0935601.88W	1650 (1A)	300	RA55	2020
CATEGORY C	1.7 NM	450	677	16. ELEV (29-020017)	364420.87N/0935501.54W	1745 (5D)	300	AC50 RA55	2160
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

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

CITY AND STATE	ELEVATION: 1483 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CASSVILLE, MO	CASSVILLE MUNI	RNAV	RNAV (GPS) RWY 9, AMDT 1	ACE

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SGF APP CON STL FSS ZKC ARTCC SATISFACTORY ON:	N W S / F A A / A / C — OTHER: AWOS-3	SOURCE: KHFJ / KROG DISTANCE: 13.63 / 21.88 HOURS REMOTE OPERATION: 24
X V H F X U H F H F	LOCATION: KHFJ	ADJUSTMENT: 55.0/68.0

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 27 (PCL), 09 (PCL)
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 27, 09

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 27, 09
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1479.4
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 40.0

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

10. WAIVERS: NONE

PART D - PREPARED BY: CHRIS OBRIEN	DATE: 04/08/2013
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - REMOTE ALTIMETER IN USE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

RASS PRESSURE PATTERNS SAME
(K94K): 1482.6 FT MSL
(KHFJ): 1313.9 FT MSL
(KROG): 1358.8 FT MSL
RA=54.97/67.66 FT

BOTH KHFJ AND KROG AWOS-3 ARE ON SERVICE A.

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

VEGETATION HEIGHT USED: 60 FT

VGSI DATA: 3.00/40.0

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
20:1
1505 POLE (K94KT0252) 364154.33N/0935431.93W (3.39)
1506 POLE (K94KT0255) 364147036N/0935432.14W (3.33)
(FPO NOTIFIED)
34:1
1546 TREE (K94KT0268) 364156.06N/0935445.71W (20.57)
1549 TREE (K94KT0274) 364153.55N/0935448.36W (17.19)
1545 TREE (K94KT0272) 364156.13N/0935447.36W (15.62)
1543 TREE (K94KT0275) 364145.65N/0935448.56W (10.57)
1503 TREE (K94KT0258) 364148.35N/0935432.67W (8.66)
1502 TREE (K94KT0260) 364154.91N/0935433.29W (6.29)
1536 TREE (K94KT0276) 364149.66N/0935448.60W (3.54)
1567 TREE (K94KT0282) 364155.72N/0935502.06W (2.42)
1509 TREE (K94KT0264) 364152.27N/0935438.31W (1.23)

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30 DEGREE CELSIUS ISA DEVIATION. NO HISTORICAL DATA AVAILABLE.

ORDER 8260.3, VOLUME 1, CHAP 2, NEW CIRCLING CRITERIA APPLIED.
CAT A: 1.31
CAT B: 1.86
CAT C: 2.92

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HIRLA **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 364149.65N/0935730.51W **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 9			K94K	CASSVILLE	MO (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/22/2013

REASON FOR REVISION:
FIX MOVED 3037.05 FT (0.50 NM).

DEVELOPED BY: **DATE:** 03/13/2013 **OFFICE:** AJV-353 **NAME:** CHRIS OBRIEN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: SGF APP/DEP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: INAGE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 364148.81N/0940010.84W **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 09			K94K	CASSVILLE	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/22/2013

REASON FOR REVISION:
FIX MOVED 401.15 FT (0.07 NM)
DELETED RNP REMARK.

DEVELOPED BY: **DATE:** 03/13/2013 **OFFICE:** AJV-353 **NAME:** CHRIS OBRIEN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: SGF APP/DEP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WURUG **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 364153.67N/0933959.12W **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	E		WP	087.82	267.82	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (29-002922)	363910.88N/0933935.77W	1852	1A

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 09		1	K94K	CASSVILLE	MO (US)
IAP	RNAV (GPS) RWY 27		1	K94K	CASSVILLE	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 08/22/2013

DEVELOPED BY: **DATE:** 03/13/2013 **OFFICE:** AJV-353 **NAME:** CHRIS OBRIEN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: SGF APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZURES **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 364146.12N/0940740.80W **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	W		WP	267.54	087.54	R		4	3300	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	364048.00N/0940151.00W	1657	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 09		1	K94K	CASSVILLE	MO (US)
IAP	RNAV (GPS) RWY 27		1	K94K	CASSVILLE	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 08/22/2013

REASON FOR REVISION:
FIX MOVED 36.41 FT (0.01 NM).
PAT 1 RAD/CRS/BRG CHANGED FROM 267.57 TO 267.54.
PAT 1 CRS INBOUND CHANGE FROM 087.57 TO 087.54.
MIN HOLDING CHANGED FROM 3000 TO 3300.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/13/2013 **OFFICE:** AJV-353 **NAME:** CHRIS OBRIEN

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: SGF APP/DEP CON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CASSVILLE** STATE: **MO**

AIRPORT NAME: **CASSVILLE MUNI** ID: **K94K**

PROCEDURE: **RNAV (GPS) RWY 09** AMDT: **AMDT1**

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	**3.18**
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	**089.61**
4. High Terrain in	**FINAL**	segment containing 1000' point	**1579**
5. Distance from (If 1500' point in PT maneuvering area or holding pattern note in remarks)	**THLD**	to 1500' point	**4.96**
6. Width of	**FINAL**	segment at 1500' point	**2.43**
7. True Course of	**FINAL**	segment containing 1500' point	**089.61**
8. High Terrain in	**FINAL**	segment containing 1500' point	**1579**

9. Threshold Coordinates (if straight-in) ... **364150.56N** / **0935423.99W**

10. ARP Coordinates ..... **364150.70N** / **0935401.90W**

11. Runway Approach End and distance furthest from ARP ..... RWY **27**

Distance **0.30** NM

12. FAF Coordinates ..... **364148.81N** / **0940010.84W**

REMARKS: Approach/Drawing attached.

ZURES (IF/IAF) 364146.12N/0940740.80W

371148.45N/0940740.80W 30NM CW 361143.64N/0940740.80W