

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> 94K	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> CASSVILLE	<u>STATE</u> MO	
<u>AIRPORT ELEVATION</u> 1483	<u>TDZE</u> 1483	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 2E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 AUGUST 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2010

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 358/30 CW 178/30	NOPT	ZURES	IF/IAF	3300
2. 178/30 CW 358/30		ZURES	IF/IAF	3300

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZURES	IF/IAF	INAGE		TF	FB	1.00	087.54	6.03	3000
INAGE	FAF	HIRLA/2.50 NM TO RW09		TF	FB	0.30	087.61	2.15	
HIRLA/2.50 NM TO RW09		RW09	MAP	TF	FO	0.30	087.61	2.50	
RW09	MAP	1883 MSL		CA			087.61		
1883 MSL		WURUG		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT WURUG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 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), MAX 6000.
- 3. **FAC:** 087.61 **FAF:** INAGE **DIST FAF TO MAP:** 4.65 **DIST FAF TO 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:** **410 HAT:** 1.17 **GS ANT:**
- 6. **MIN GP INCPT:** 3000 **GP ALT AT PFAF :** INAGE 3000 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 40.0
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: BARO-VNAV NA.
 CHART NOTE: USE MONETT ALTIMETER SETTING; WHEN NOT RECEIVED, USE ROGERS ALTIMETER SETTING AND INCREASE LPV DA TO 1906 FEET AND VISIBILITY 1/8 SM ALL CATS, LNAV/VNAV DA TO 2011 FEET AND VISIBILITY 1/8 SM ALL CATS; INCREASE ALL MDAS 20 FEET.

ADDITIONAL FLIGHT DATA:

CHART MONETT RGNL AWOS-3.
 CHART CIRCLING ICON.
 HOLD E, RT, 267.82 INBOUND.
 CHART FAS OBST: 1650 TREE (29-038805) 364202N/0935602W.
 WAAS CHANNEL # 63133
 REFERENCE PATH ID: W09A
 LTP HAE: 422.4 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA

CATEGORY:	A			B			C			D			E		
	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1893	1 1/8	410	1893	1 1/8	410	1893	1 1/8	410		NA				
LNAV/VNAV DA	1998	1 3/8	515	1998	1 3/8	515	1998	1 3/8	515		NA				
LNAV MDA	1960	1	477	1960	1	477	1960	1 3/8	477		NA				
CIRCLING	2000	1	517	2180	1	697	2180	2	697		NA				



CHANGES - REASONS

1. REPLACE NOTE: DME/DME RNP-0.3 NA WITH PBN REQUIREMENTS NOTE: RNP APCH - GPS - IAW 8260.19I, 8-6-8.B.(2).
2. LINE 7 NOTE UPDATE: ADDED NOTE "20:1 IS CLEAR" - IAW 8260.19I PARA 8-6-7.G.(3).
3. CHANGED CHART NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED TO RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - IAW 8260.19I PARA 8-6-11K.
4. CHANGED CHART NOTE FROM "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" TO "WHEN MONETT ALTIMETER SETTING NOT RECEIVED, USE ROGERS ALTIMETER SETTING AND INCREASE LPV DA TO 1906 FEET AND VISIBILITY 1/8 SM ALL CATS, LNAV/VNAV DA TO 2011 FEET AND VISIBILITY 1/8 SM ALL CATS; INCREASE ALL MDAS 20 FEET" - IAW 8260.19I PARA 8-6-9F(6). VISCHECK UPDATE.
5. LPV ALL CATS DA/HAT/VIS CHANGED FROM 1843/360/1 1/4 TO 1893/410/1 1/8 - NEW LPV OBSTACLE EVALUATION UPDATE DUE TO MA PENETRATION. VISCHECK UPDATE.
6. LNAV/VNAV ALL CATS VIS CHANGED FROM 1 3/4 TO 1 3/8 - VISCHECK UPDATE.
7. CIRCLING CAT B MDA/HAA CHANGED FROM 2020/537 TO 2180/697, CAT C MDA/HAA CHANGED FROM 2160/677 TO 2180/697 - NEW CONTROLLING OBSTACLE.
8. CRC REMAINDER CHANGED FROM 54AB2792 TO 23AB6566 - FPAP LON/LAT CHANGED FROM 364151.0600N/0935233.2000W TO 364151.0520N/0935233.1960W.
9. TERMINAL ROUTE UPDATE: CHANGED MA LEG FROM "RW9 - 1839 MSL" TO "RW9 - 1883 MSL" - NEW LPV OBSTACLE EVALUATION UPDATE.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** SGF APP CON, ZKC, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE *Digitally signed by* **DATE**
DAVID TEFFETELLER
May 12, 2022

DEVELOPED BY *Digitally signed by*
KWEKU DONKOR **KWEKU DONKOR**
May 06, 2022

OFFICE **DATE**
AJV-A433 04/04/2022

APPROVED BY
LONNIE EVERHART

Digitally signed by
DAVID TEFFETELLER
May 12, 2022

OFFICE **DATE**
AJV-A430

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
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	364151.0520N
FPAP LONGITUDE	0935233.1960W
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	23AB6566

ADDITIONAL PATH POINT RECORD INFORMATION

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

