

**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> KHLN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> HELENA	<u>STATE</u> MT	
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u> 3864	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 04/22/2021	<u>MAG VAR</u> 12E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> 02/23/2023	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2025

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HLN VORTAC		KELTY		TF	FO	1.00	267.42	20.29	9900
PIXXI	IAF	KELTY	NOPT	TF	FB	1.00	094.96	11.87	9900
GLUES	IAF	KELTY	NOPT	TF	FB	1.00	029.04	18.22	9900
KELTY	IF/IAF	DOMVE		TF	FB	1.00	084.94	7.10	8000
DOMVE		AXOBE		TF	FB	1.00	084.32	1.76	7500
AXOBE	FAF	CENET/6.84 NM TO RW09		TF	FB	0.30	090.52	2.80	
CENET/6.84 NM TO RW09		RW09	MAP	TF	FO	0.30	090.52	6.84	
RW09	MAP	4800 MSL		CA			090.52		4800
4800 MSL		SIEBE		DF	FO	1.00			9300

**MISSED APPROACH**

**MAP:**

LNAV: RW09

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 9300 DIRECT SIEBE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9300.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**





**CHANGES - REASONS**

1. ADDED "RNP APCH - GPS." TO PBN REQUIREMENTS NOTE - IAW 8260-19I 8-6-8.
2. IN NOTES, REMOVED " DME/DME RNP 0.3 NA" NOTE - IAW 8260-19I 8-6-9(N).
3. IN ADDITIONAL FLIGHT DATA, CHANGED ADOBE TO RW09 FROM "3.50/50" TO "3.50/55." - PER FPT REQUEST & RUNWAY DESIGN TCH.
4. AIRPORT MAGVAR CHANGED FROM "16E/1990" TO "12E/2025". CHANGED ALL COURSES TO MATCH MAGVAR UPDATE. - IAW 8260-19I 8-3-4 AND TABLE 8-3-1.
5. IN ADDITIONAL FLIGHT DATA: CHANGED FAS OBSTACLE FROM "5099 TREE 463650N/1120835W" TO "4920 AAO 463716N/1120843W" - NEW CONTROLLING OBSTACLE/EVALUATION.
6. PROFILE LINE 3: CHANGED FAC FROM "086.53" TO "090.52;" DIST FAF TO MAP/THLD FROM "9.39" TO "9.63" - UPDATED MAGVAR DATA/NEW EVALUATION.
7. PROFILE LINE 4: CHANGED MIN ALT FROM "KELTY 9800, DOMVE 8000, AXOBE 7400, CENET/6.80 NM TO RW09 6440" TO "KELTY 9900, DOMVE 8000, AXOBE 7500, CENET/6.87 NM TO RW09 6460" - PER FPT REQUEST AND UPDATED DATA/NEW EVALUATION.
8. IN ADDITIONAL FLIGHT DATA: CHANGED NOTE FROM "CHART: 5256 TREE 463733N/1120920W , CHART: 6191 TREE 463706N/1121341W" TO "5439 AAO 463734N/1120921W, 6319 AAO 463649N/1121349W" - UPDATED MAP STUDY & 8260-19I 8-6-10.
9. IN ADDITIONAL FLIGHT DATA, REMOVED "CHART: APT ELEV 3877" & "CHART: TDZE 3864" - INFORMATION LISTED IN TITLE SECTION OF THE FORM.
10. LNAV MDA/HAT UPDATED FROM "5440/1576" TO "5220/1356" - NEW LNAV CONTROLLING OBSTACLE UPDATE.
11. CAT A/B CIRCLING MDA/HAA CHANGED FROM "5440/1576" TO "5220/1343" - UPDATED DATA/NEW EVALUATION.
12. IN TERMINAL ROUTES CHANGE DISTANCE: DOMVE TO AXOBE FROM "2.00" TO "1.76" - PER FPT REQUEST AND PROCEDURE ALIGNMENT.
13. MISSED APPROACH INSTRUCTIONS CHANGED FROM : "CLIMBING LEFT TURN TO 9000 DIRECT SIEBE AND HOLD." TO "CLIMB TO 4800 THEN CLIMBING LEFT TURN TO 9300 DIRECT SIEBE AND HOLD. CONTINUE CLIMB-IN-HOLD TO 9300" - PER FPT REQUEST AND 8260.3E 16-7.
14. ADDED "CHART VDP: 3.79 NM TO RW09" TO ADDITIONAL FLIGHT DATA - IAW 8260-19I 8-6-10.
15. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GLUES ON V257 SOUTHWEST BOUND" AND "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HLN VORTAC AIRWAY RADIALS 212 CW 340" - MUST RESTRICT ARRIVALS FROM AIRWAYS WHERE TURNS ONTO THE APPROACH ARE GREATER THAN 90 DEGREES BELOW FL 195.
16. CHANGED PROFILE NOTE FROM "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19I, PARA 8-6-9.M.(2).
17. LINE 8: MSA ALTITUDE CHANGED FROM 10700 TO 10600 - NEW CONTROLLING OBSTACLE EVALUATION.
20. CHANGED CIRCLING CATS C/D MDA/HAA FROM "5920/2043" TO "6000/2123" - NEW CONTROLLING OBSTACLE EVALUATION UPDATE.
21. CHANGED HOLDING INBOUND COURSE AND ALTITUDE AT KELTY ON LINE 2 FROM 080.94/9800 TO 084.94/9900 - AIRPORT MAGVAR CHANGED FROM 16E/1990 TO 12E/2025/PER FPT REQUEST AND TARGETS EVALUATION UPDATE.
22. CHANGED 34:1 FROM IS NOT CLEAR TO IS CLEAR AND ADDED 20:1 IS CLEAR TO LINE 7 - IAW 8260.19I PARA 8-6-7.G.(3).

**COORDINATED WITH:**

**A4A**  
  **ALPA**  
  **AOPA**  
  **APA**  
  **HAI**  
  **NBAA**  
 **OTHER:** ZLC, HLN APP CON, HLN ATCT, AMGR

**FLIGHT CHECKED BY**  
PENDING

*Digitally signed by*  
**JOHNNIE BAKER**  
Dec 22, 2022

**OFFICE**

**DATE**

**DEVELOPED BY**  
KWEKU DONKOR  
*Digitally signed by*  
**JOHNNIE BAKER**  
Dec 22, 2022

**OFFICE**  
AJV-A433

**DATE**  
10/13/2022

**APPROVED BY**  
JOHNNIE BAKER

*Digitally signed by*  
**JOHNNIE BAKER**  
Dec 22, 2022

**OFFICE**  
AJV-A430

**DATE**

**TITLE**  
MANAGER

12/22/2022: THIS A CORRECTED COPY OF THE FORM APPROVED ON 11/04/2022.  
CHANGED REQUIRED EFFECTIVE DATE FROM 12/29/2022 TO 02/23/2023.

