

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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> VOR-B	<u>ORIGINAL/AMENDMENT</u> 8	<u>CITY</u> HELENA	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3877	<u>TDZE</u>	<u>SUPERSEDED</u> VOR-B	<u>ORIGINAL/AMENDMENT</u> 7C	<u>DATED</u> 04/22/2021	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> HLN	<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>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HLN VORTAC		SEWAL/8.40 DME					089.99	8.40	8300
KOTLE/15.00 DME CW	IAF	TICUS/15.00 DME					15.00 DME ARC		10000
TICUS/15.00 DME CW	IAF	HONVI/15.00 DME					15.00 DME ARC		10000
HONVI/15.00 DME CW	IAF	FAVOX/15.00 DME					15.00 DME ARC		9400
FAVOX/15.00 DME CW	IAF	JOVIX/15.00 DME	NOPT				15.00 DME ARC (HLN LR-082)		8400
LOCIS/15.00 DME CCW	IAF	JEVAM/15.00 DME					15.00 DME ARC		11100
JEVAM/15.00 DME CCW	IAF	HUDUB/15.00 DME					15.00 DME ARC		11100
HUDUB/15.00 DME CCW		CUSRI/15.00 DME					15.00 DME ARC		10000
CUSRI/15.00 DME CCW	IAF	JOVIX/15.00 DME	NOPT				15.00 DME ARC (HLN LR-098)		8400
JOVIX/15.00 DME	IF	SEWAL/8.40 DME					269.99	6.60 (HLN R-090)	7300

MISSED APPROACH

MAP:

HLN VORTAC

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 9000 ON HLN VORTAC R-340 TO WOKEN INT/GTF 37.68 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CHANGES - REASONS

1. KHLN AND HLN VORTAC MAGVAR UPDATED FROM 1990/16E TO 2025/12E.
2. TERMINAL ROUTES: HLN VORTAC TO SEWAL COURSE UPDATED FROM 085.99 TO 089.99, JOVIX TO SEWAL COURSE FROM 265.99 TO 269.99 AND HLN RADIAL FROM 086 TO 090, LEAD RADIALS FAVOX TO JOVIX FROM LR-078 TO LR-082 AND CUSRI TO JOVIX FROM LR-094 TO LR-098 - HLN VORTAC MAGVAR UPDATED FROM 1990/16E TO 2025/12E.
3. MISSED APPROACH INSTRUCTIONS CHANGED FROM HLN VORTAC R-336 TO R-340, AND GTF DME FROM 37.7 TO 37.68 - HLN VORTAC MAGVAR UPDATED AND GTF DME UPDATED.
4. PROFILE LINE 2: HOLDING SEWAL CHANGED FROM 265.99 INBOUND, 7300 FT TO 269.99 INBOUND, 7500 FT - HLN VORTAC MAGVAR UPDATED AND UPDATED PRECIPITOUS TERRAIN EVALUATION FROM 158 TO 320 FOR HOLDING AT SEWAL.
5. PROFILE LINE 3: FAC CHANGED FROM 265.99 TO 269.99 - HLN VORTAC MAGVAR UPDATED.
6. PROFILE LINE 4: MIN ALT AT JUBTI CHANGED FROM 5420 TO 6020 - UPDATED TARGETS EVALUATION RESULTS WITH MIN END ALTITUDE.
7. MSA: 135-225 CHANGED FROM 10700 TO 10600, 225-315 CHANGED FROM 9600 TO 9800 - UPDATED OBSTACLE EVALUATION RESULTS.
8. CHART NOTE: HELICOPTER VISIBILITY NOTE UPDATED FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 05, 23, 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - IAW 8260.191 8-6-11K(3).
9. REMOVED ADDITIONAL FLIGHT DATA CHART IN PLANVIEW ALTERNATE MISSED APPROACH HOLDING - ALTERNATE MISSED APPROACH REMOVED FROM PROCEDURE PER FPT.
10. CHART 4979 TREE CHANGED TO 5160 AAO 463615N/1114404W - UPDATED OBSTACLE 7:1 EVALUATION RESULTS.
11. CHART FAS OBST: CHANGED FROM 4348 ANT ON OL STK 463509N/1115516W TO 4348 STACK (30-000089) 463509N/1115516W - UPDATED OBSTACLE EVALUATION RESULTS.
12. ADDITIONAL FLIGHT DATA: CHART HLN RADIALS CHANGED FROM/TO: R-336/R-340 AT KOTLE, R-008/R-012 AT TICUS, R-058/R-062 AT HONVI, R-073/R-077 AT FAVOX, R-208/R-212 AT LOCIS, R-175/R-179 AT JEVAM, R-124/R-128 AT HUDUB, AND R-103/R-107 AT CUSRI - HLN VORTAC MAGVAR UPDATED.
13. SEWAL SPEED RESTRICTION NOTE CHANGED FROM "CHART: 175K ICON AT SEWAL" TO "CHAT SPEED ICON IN PLANVIEW AT SEWAL: MAX 175 KIAS" - IAW 8260.191 4-6-10G.
14. ADDITIONAL FLIGHT DATA: ADDED "FAC ALIGNED TO HLN VORTAC" - IAW 8260.191 8-6-10G(3).
15. CIRCLING MDA/HAA CAT C AND D CHANGED FROM 5920/2043 TO 6000/2123 - UPDATED OBSTACLE EVALUATION RESULTS WITH MAP STUDY.
16. ALT MINS CHANGED FROM "CAT A 900-2, CAT B 1000-2, CAT C, D 2100-3" TO "CAT A 900-2, CAT B 1000-2, CAT C, D 2200-3" - UPDATED MAP STUDY WITH NEW CONTROLLING OBSTACLE FOR CAT C RAISING CAT D WITH IT.

COORDINATED WITH:

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

FLIGHT CHECKED BY	<i>Digitally signed by</i>	OFFICE	DATE
PENDING	JOHNNIE BAKER		
	Dec 22, 2022		

DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE
RICHARD CHRISTENSEN	JOHNNIE BAKER	AJV-A431	09/01/2022
	Dec 22, 2022		

APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE	TITLE
JOHNNIE BAKER	JOHNNIE BAKER	AJV-A430		MANAGER
	Dec 22, 2022			

12/22/2022: THIS A CORRECTED COPY OF THE FORM APPROVED ON 11/01/2022.
 CHANGED REQUIRED EFFECTIVE DATE FROM 12/29/2022 TO 02/23/2023.

