

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.  
 Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HELENA	FOUR	HLN4.HLN	THREE	09/25/2008	<b>21 JUL 2016</b>

**TYPE:** SID

**DP ROUTE DESCRIPTION:**

TAKE-OFF RWY 27: CLIMBING RIGHT TURN HEADING 006 TO INTERCEPT HLN VORTAC R-336 TO 8100', THEN CLIMBING LEFT TURN TO 9000' VIA HLN VORTAC R-336 TO HLN VORTAC.  
 TAKE-OFF RWY 9: CLIMBING LEFT TURN HEADING 307 TO INTERCEPT HLN VORTAC R-336 TO 8100', THEN CLIMBING LEFT TURN TO 9000' VIA HLN VORTAC R-336 TO HLN VORTAC.  
 TAKE-OFF RWY 5: CLIMBING LEFT TURN HEADING 310 TO INTERCEPT HLN VORTAC R-336 TO 8100', THEN CLIMBING LEFT TURN TO 9000' VIA HLN VORTAC R-336 TO HLN VORTAC.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

TAKE-OFF MINIMUMS RWY 17,23 NA-OBSTACLES; 35, NA-ATC.  
 RWY 5: STANDARD WITH MINIMUM CLIMB OF 250 FEET PER NM TO 8100.  
 RWY 9: STANDARD WITH MINIMUM CLIMB OF 240 FEET PER NM TO 8100.  
 RWY 27: STANDARD WITH MINIMUM CLIMB OF 390 FEET PER NM TO 8100.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 5,** TREES BEGINNING 991 FT FROM DER, 630 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/3939 FT MSL. RISING TERRAIN BEGINNING 5 FT FROM DER, 495 FT RIGHT OF CENTERLINE, UP TO 3826 FT MSL, FENCE BEGINNING 423 FT FROM DER, 332 FT RIGHT OF CENTERLINE, UP TO 12 FT AGL/3832 FT MSL.

**NOTE: RWY 9,** TREES BEGINNING 1391 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/3979 FT MSL. TREES BEGINNING 2928 FT FROM DER, 878 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/ 3979 FT MSL.

**NOTE: RWY 23,** TOWER 4448 FT FROM DER, 357 FT LEFT OF CENTERLINE, 131 FT AG/4054 FT MSL. POLES BEGINNING 1329 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/3996 FT MSL. TREES BEGINNING 1011 FT FROM DER, 37 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/4059 FT MSL. ROD ON BLDG 953 FT FROM DER, 321 FT LEFT OF CENTERLINE, 44 FT AGL/3943 FT MSL, ROAD (I) 2374 FT FROM DER, 771 FT LEFT OF CENTERLINE, UP TO 17 FT AGL/3972 FT MSL. OL ON HGR 457 FT FROM DER, 219 FT LEFT OF CENTERLINE, 43 FT AGL/3905 FT MSL. TREES BEGINNING 1519 FT FROM DER, 142 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/4011 FT MSL. POLES BEGINNING 1379 FT FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/3965 FT MSL. ANT ON BLDG 316 FT FROM DER, 352 FT RIGHT OF CENTERLINE, 34 FT AGL/3913 FT MSL. BLDG 584 FT FROM DER, 470 FT RIGHT OF CENTERLINE, 49 FT AGL/3948 FT MSL.

**NOTE: RWY 27,** TREES BEGINNING 1079 FT FROM DER, 616 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/3999 FT MSL. BLDG 1593 FT FROM DER, 731 FT LEFT OF CENTERLINE, 18 FT AGL/3917 FT MSL. RISING TERRAIN BEGINNING 101 FT FROM DER, 347 FT LEFT OF CENTERLINE, UP TO 3871 FT MSL. TREES BEGINNING 333 FT FROM DER, 507 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/3959 FT MSL.

QUALITY  
15  
CHECKED

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**CONTROLLING OBSTACLES:**

RWY 27: 5452 AOO 464035.15N/1120504.72W, 7000 AAO 465348.80N/1115911 .80W,  
RWY 5: 7000 AAO 465348.80N/1115911.80W  
RWY 9: 7000 AAO 465348.80N/1115911 .80W

**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

5452 MSL AAO 464035.15N/1120504.72W, 6800 TERRAIN 465348.80N/1115911 .80W.  
REFERENCE MAG VAR: KHLN 16E EPOCH YR: 1990  
CHART: TOP ALTITUDE: 9000

**AIRPORTS SERVED:**

HELENA RGNL

HELENA, MT

**COMMUNICATIONS:**

ZLC, HLN APP CON, HLN ATCT.

**FIXES AND/OR NAVAIDS:****REMARKS:**

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HELENA	FOUR	HLN4.HLN	THREE	09/25/2008	21 JUL 2016

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZLC, AMGR

**CHANGES:**

1. ADDED: CHART: TOP ALTITUDE 9000
2. RWY 16/34 CHANGED TO RWY 17/35.

**REASONS:**

1. ATC REQUEST
2. AS SHOWN IN AIRNAV AND NASR.

# DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HELENA	FOUR	HLN3 . HLN	THREE	09/25/2008	21 JUL 2016

ARINC SUMMARY - KHLN

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW05	010		CA	FB		050.0						AA 04277		
RW05	020		VI	FB		310.0			L					
RW05	030	HLN	FA	FB		336.0	HLN					AA 08100		V
RW05	040	HLN	CF	FB		156.0	HLN		L			AA 09000		VE
RW09	010		CA	FB		086.0						AA 04277		
RW09	020		VI	FB		307.0			L					
RW09	030	HLN	FA	FB		336.0	HLN					AA 08100		V
RW09	040	HLN	CF	FB		156.0	HLN		L			AA 09000		VE
RW27	010		CA	FB		266.0						AA 04277		
RW27	020		VI	FB		006.0			R					
RW27	030	HLN	FA	FB		336.0	HLN					AA 08100		V
RW27	040	HLN	CF	FB		156.0	HLN		L			AA 09000		VE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
HLN	N463624.60	W1115712.50

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW05	N463620.16	W1115950.79	03877
RW09	N463630.29	W1115951.68	03864
RW27	N463610.76	W1115745.96	03845

QUALITY  
15  
CHECKED