

**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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

**TYPE:** RNAV OBSTACLE

**DP ROUTE DESCRIPTION:**

TAKE-OFF RWY 16: CLIMB HEADING 164.61 TO 5930, THEN CLIMBING RIGHT TURN DIRECT SPHNX, THEN ON TRACK 344.61 TO MDISN, THEN ON TRACK 293.01 TO HIA VOR/DME. THENCE...

TAKE-OFF RWY 34: CLIMB HEADING 344.61 TO 5930 THEN DIRECT SPHNX, THEN ON TRACK 344.61 TO MDISN, THEN ON TRACK 293.01 TO HIA VOR/DME. THENCE...

...ON ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

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

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
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**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

TAKEOFF MINIMUMS

RWY 16, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5930 THEN MINIMUM CLIMB OF 323 FT PER NM TO 8600.

RWY 34, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5930, THEN MINIMUM CLIMB OF 304 FT PER NM TO 8500.

NOTE: GPS REQUIRED.

NOTE: RNAV 1

**TAKEOFF OBSTACLES NOTES:**

**RWY 16:** FENCE 105 FT FROM DER, 291 FT LEFT OF CENTERLINE, 5 FT AGL/5358 FT MSL. MULTIPLE BUSHES BEGINNING 113 FT FROM DER, 493 FT LEFT OF CENTERLINE, UP TO 8 FT AGL/5358 FT MSL. BUILDING 731 FT FROM DER, 481 FT LEFT OF CENTERLINE, 18 FT AGL/5378 FT MSL. POLE 970 FT FROM DER, 671 FT LEFT OF CENTERLINE, 32 FT AGL/ 5395 FT MSL. MULTIPLE VEHICLES ON ROAD BEGINNING 1246 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, 18 FT AGL/5397 FT MSL.

**RWY 34:** MULTIPLE FENCE POLES BEGINNING 137 FT FROM DER, 378 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL 5510 FT MSL. MULTIPLE BUSHES BEGINNING 175 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/5562 FT MSL. MULTIPLE TREES BEGINNING 200 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/5634 FT MSL. MULTIPLE VEHICLES ON ROAD BEGINNING 5709 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 18 FT AGL/5597 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 16:** 7839 FT MSL AAO 45137.08N/1115116.13W.

**RWY 34:** 8039 FT MSL AAO 452635.56N/1113634.53W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 11329 MSL AAO 451639.00N/1112703.00W

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KEKS 12E EPOCH YR: 2015

DME/DME ASSESSMENT NOT CONDUCTED.

QUALITY  
1  
CHECKED

## U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

## GRAPHIC DEPARTURE PROCEDURE (DP)

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ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

**AIRPORTS SERVED:**

ENNIS - BIG SKY

ENNIS, MT

**COMMUNICATIONS:**

ZLC ARTCC.

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

RWY 34 CONTROLLING OBSTACLE LOCATED 2733 FT INTO SECONDARY AREA WITH A PRIMARY EQUIVALENT OF 7812 FT.  
VCOA NOT ESTABLISHED IN CONJUNCTION WITH RNAV ODP.  
8 FT TREES USED WITHIN 20,000 OF ALL RUNWAYS PER FPT.  
DEVELOPED USING RNP-1 CRITERIA.  
25 DEGREE BANK ANGLE USED DUE TO TERRAIN.

**FLIGHT INSPECTED BY:**

Scott Thompson



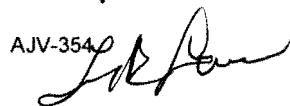
11/25/13

**REQUIRED EFFECTIVE DATE:**

CONCURRENT WITH AIRSPACE  
DOCKET 13-ANM-13

**DEVELOPED BY:**

VICTOR C BOONE

  
AJV-354

12/12/2012

**APPROVED BY:**

LARRY STROUT, MANAGER

  
AJV-354

DEC 10 2013

**COORDINATED WITH:**

APA, AOPA, NBAA, ZAN, APT MGR.

**CHANGES:****REASONS:**

# DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
ENNIS		ONE	ENNIS1.ENNIS				NONE		6 FEBRUARY 2014
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RWY 16 (AER)	451700.20N/1113858.59W	N	-	-	-	-			
5930 MSL		-	-	VA	176.61	-			RIGHT TURN, CG 500 FT PER NM TO 5930
SPHNX	451959.86N/1113913.68W	Y	FO	DF	-	-			CG 323 FT PER NM TO 8600
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			
RWY 34 (AER)	451555.16N/1113853.13W	N	-	-	-	-			
5930 MSL		-	-	VA	356.61	-			CG 500 FT PER NM TO 5930
SPHNX	451959.86N/1113913.68W	Y	FO	DF	-	-			CG 304 FT PER NM TO 8500
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			

QUALITY  
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## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible][illegible][illegible]

QUALITY  
1  
CHECKED

# DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ENNIS	ONE	ENNIS1.ENNIS	NONE		6 FEBRUARY 2014

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW16		010		VA		FB		164.6 ( )		AA 05930	
	RW16	SPHNX	020		DF	R	FO	1.0				
	RW16	MDISN	030		TF		FB	1.0				
	RW16	HIA	040		TF		FB	1.0				
	RW34		010		VA		FB		344.6 ( )		AA 05930	
	RW34	SPHNX	020		DF		FO	1.0				
	RW34	MDISN	030		TF		FB	1.0				
	RW34	HIA	040		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIA	N455142.44	W1121010.59	N4551.707	W11210.177
	MDISN	N453720.62	W1114041.61	N4537.344	W11140.694
	SPHNX	N451959.86	W1113913.68	N4519.998	W11139.228
	RW16	N451700.20	W1113858.59	N4517.003	W11138.977
	RW34	N451555.16	W1113853.13	N4515.919	W11138.886

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW16	05423	30
	RW34	05349	21

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