

**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> KBIL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10L	<u>ORIGINAL/AMENDMENT</u> 4A	<u>CITY</u> BILLINGS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3585	<u>SUPERSEDED</u> RNAV (GPS) RWY 10L	<u>ORIGINAL/AMENDMENT</u> 4	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
LRSUN	IAF	WIBON		TF	FB	1.00	111.11	6.62	6000
BEARE	IAF	WIBON		TF	FB	1.00	064.40	5.68	6000
WIBON	IF/IAF	HEXOS		TF	FB	1.00	101.53	6.00	5300
HEXOS	FAF	ZOBUM/2.30 NM TO RW10L		TF	FB	0.30	101.62	2.93	
ZOBUM/2.30 NM TO RW10L		RW10L	MAP	TF	FO	0.30	101.62	2.30	
RW10L	MAP	3785 MSL		CA			101.62		
3785 MSL		POXRI		DF	FB	1.00			
POXRI		KOXMY		TF	FO	1.00	027.97	8.62	6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT POXRI AND ON TRACK 027.97 TO KOXMY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT WIBON

3. FAF:

101.62

FAF: HEXOS

DIST FAF TO MAP: 5.23

DIST FAF TO THLD: 5.23

4. MIN ALT: WIBON 6000, HEXOS 5300, ZOBUM/2.30 NM TO RW10L 4360

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.47

GS ANT:

6. MIN GP INCPT:

5300

GP ALT AT FAF :

HEXOS 5300

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 50.6

8. MSA FROM: RW10L 8300

PBN REQUIREMENTS NOTE:

RNP APCH-GPS

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24°C OR ABOVE 50°C.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART SPEED ICON IN PLANVIEW AT LRSUN: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT BEARE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
4078 AAO 454942N/1084115W.
CHART MANDATORY 8000 AT LRSUN.
CHART MANDATORY 8000 AT BEARE.
CHART VDP AT 1.27 NM TO RW10L.
CHART FAS OBST: 3769 TREE (30-037666) 454838N/1083439W.
HOLD NE, RT, 238.12 INBOUND.
WAAS CHANNEL # 50122
REFERENCE PATH ID: W10A
LTP HAE: 1079.2 M

MINIMUMS:

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

ALTERNATE: NA

☐

STANDARD - CAT D 1000-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	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**	3785	2400	200	3785	2400	200	3785	2400	200	3785	2400	200			
LNAV/VNAV DA	4041	6000	456	4041	6000	456	4041	6000	456	4041	6000	456			
LNAV MDA	4020	2400	435	4020	2400	435	4020	4000	435	4020	4000	435			
CIRCLING	4100	1	438	4160	1	498	4180	1 1/2	518	4580	3	918			



CHANGES - REASONS

1. RAISED AIRPORT ELEVATION FROM 3652 TO 3662. - UPDATED AIRNAV DATA.
2. REMOVED CHART NOTE DME/DME RNP-0.3 NA. - 8260.19I REQUIREMENT.
3. ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH-GPS. - 8269.19I REQUIREMENT.
4. REMOVED FAHRENHEIT FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24°C (-11°F) OR ABOVE 50°C (123°F). - 8260.19I REQUIREMENT.
5. CIRCLING HAAS CHANGED FROM CAT A 448 TO 438, CAT B 508 TO 498, CAT C 528 TO 518, CAT D 928 TO 918. - AIRPORT ELEVATION RAISED TEN FEET.
6. ADDED 20:1 IS CLEAR TO LINE 7. - 8260.19I REQUIREMENT.
7. CHANGED CHART VDP AT 1.27 NM TO RW10L*. TO CHART VDP AT 1.27 NM TO RW10L. - 8260.19I REQUIREMENT.
8. REMOVED *LNAV ONLY FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
9. CHANGED CHART FAS OBST: 3769 TREE 454838N/1083439W. TO CHART FAS OBST: 3769 TREE (30-037666) 454838N/1083439W. - 8260.19I REQUIREMENT.
10. CHANGED LINE FOUR 4360* TO 4360. - 8260.19I REQUIREMENT.
11. ADDED RNP 1.0 TO POINT POXRI IN TERMINAL ROUTES. - 8260.19I REQUIREMENT.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ATCT, BILL APCH, ZLC

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE *Digitally signed by*
JON DENTON
Feb 25, 2021

DATE

DEVELOPED BY

JON DENTON (JOHN KEEFER)

Digitally signed by
JON DENTON
Feb 25, 2021

OFFICE
AJV-A432

DATE
01/08/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by
JON DENTON
Feb 25, 2021

OFFICE
AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBIL
RUNWAY	RW10L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	454845.8100N
LTP/FTP LONGITUDE	1083317.3400W
LTP/FTP ELLIPSOIDAL HEIGHT	+10792
FPAP LATITUDE	454807.3750N
FPAP LONGITUDE	1083059.4230W
THRESHOLD CROSSING HEIGHT (TCH)	00050.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	322C3919

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10925
FPAP ORTHOMETRIC HEIGHT	+10925