

**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) Y RWY 28R	<u>ORIGINAL/AMENDMENT</u> 4A	<u>CITY</u> BILLINGS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3517	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 28R	<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>
PILLR	IAF	YIGUD		TF	FB	1.00	253.90	5.01	6000
HRDIN	IAF	YIGUD		TF	FB	1.00	308.23	5.28	6000
KRONA	IAF	YIGUD		TF	FB	1.00	331.84	10.23	6000
GRYZZ	IAF	DOPIC		TF	FB	1.00	044.36	4.16	7600
DOPIC		YIGUD		TF	FB	1.00	333.51	5.10	6000
YIGUD	IF	PICTO		TF	FB	1.00	281.90	3.39	5000
PICTO	FAF	YICUN/2.30 NM TO RW28R		TF	FB	0.30	281.81	2.27	
YICUN/2.30 NM TO RW28R		RW28R	MAP	TF	FO	0.30	281.81	2.30	
RW28R	MAP	3767 MSL		CA			281.81		
3767 MSL		WIBON		DF	FO	1.00			5900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 DIRECT WIBON AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
6
CHECKED

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT YIGUD					
3. FAC:	281.81	FAF: PICTO	DIST FAF TO MAP:	4.57	DIST FAF TO THLD: 4.57
4. MIN ALT:	YIGUD 6000, PICTO 5000, YICUN/2.30 NM TO RW28R 4260				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.61	GS ANT:
6. MIN GP INCPT:	5000	GP ALT AT FAF :	PICTO 5000	OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR
			TCH:	55.6	
8. MSA FROM:	RW28R 8300				

PBN REQUIREMENTS NOTE:

RNP APCH-GPS

NOTES:

CHART NOTE: RWY 28R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 24°C OR ABOVE 50°C.
CHART SPEED ICON IN PLANVIEW AT PILLR: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT HRDIN: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT GRYZZ: MAX 220 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART MANDATORY 6300 AT PILLR.
CHART MANDATORY 6700 AT HRDIN.
CHART MANDATORY 9000 AT GRYZZ.
CHART FAS OBST: 3561 POLE (30-023457) 454755N/1082958W.
CHART VDP AT 0.86 NM TO RW28R
HOLD W, RT, 101.54 INBOUND.
WAAS CHANNEL # 56222
REFERENCE PATH ID: W28A
LTP HAE: 1049.8 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	3767	3/4	250	3767	3/4	250	3767	3/4	250	3767	3/4	250			
LNAV/VNAV DA	3786	7/8	269	3786	7/8	269	3786	7/8	269	3786	7/8	269			
LNAV MDA	3820	1	303	3820	1	303	3820	1	303	3820	1	303			
CIRCLING	4100	1	438	4160	1	498	4180	1 1/2	518	4580	3	918			

CHANGES - REASONS

1. RAISED AIRPORT ELEVATION FROM 2652 TO 2662. - NEW AIRNAV DATA.
2. ADDED PBN REQUIREMENTS NOTE: RNP APCH-GPS. - 8260.19I REQUIREMENT.
3. REMOVED CHART NOTE: DME/DME RNP 0.3 NA. - 8260.19I 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. REMOVED NOTE: CHART PBN NAV SPEC REQUIRMENTS NOTE: RNAV 1 FROM ADDITIONAL NOTES. - 8260.19I REQUIREMENT.
7. ADDED 20:1 IS CLEAR TO LINE 7. - 8260.19I REQUIREMENT.
8. CHANGED CHART FAS OBST: 3561 POLE 454755N/1082958W. TO CHART FAS OBST: 3561 POLE (30-023457)454755N/1082958W. - 8260.19I REQUIREMENT.
9. REMOVED *LNAV ONLY FROM ADDITIONAL FLIGHT DATA. - 8260.19I REQUIREMENT.
10. CHANGED CHART VDP AT 0.86 NM TO RW28R* TO CHART VDP AT 0.86 NM TO RW28R. - 8260.19I REQUIREMENT.
11. CHANGED MSA FROM 8400 TO 8300. - PREVIOUS MSA WAS INCORRECT.

COORDINATED WITH:

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

FLIGHT CHECKED BY

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

DEVELOPED BY

JON DENTON (JOHN KEEFER)

APPROVED BY

LONNIE EVERHART

OFFICE

Digitally signed by

DATE**JON DENTON**

Feb 25, 2021

Digitally signed by

JON DENTON

Feb 25, 2021

OFFICE

AJV-A432

DATE

01/08/2021

OFFICE

AJV-A430

DATE**TITLE**

MANAGER

Digitally signed by

JON DENTON

Feb 25, 2021

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBIL
RUNWAY	RW28R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	454807.3900N
LTP/FTP LONGITUDE	1083059.4400W
LTP/FTP ELLIPSOIDAL HEIGHT	+10498
FPAP LATITUDE	454845.8100N
FPAP LONGITUDE	1083317.3400W
THRESHOLD CROSSING HEIGHT (TCH)	00055.6
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)	50.0
CRC REMAINDER	DA3EDEA7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10632
FPAP ORTHOMETRIC HEIGHT	+10632