

**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</u> SHER-WOOD	<u>AIRPORT ID</u> KPWD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 30	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> PLENTYWOOD	<u>STATE</u> MT
<u>AIRPORT ELEVATION</u> 2264	<u>TDZE</u> 2247	<u>SUPERSEDED</u> RNAV (GPS) RWY 30	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/26/2014	<u>MAG VAR</u> 10E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2005

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>
ISN VOR/DME	IAF	BEYYA		TF	FB	1.00	307.99	31.79	5000
RILMY	IAF	BEYYA		TF	FB	1.00	028.11	37.60	5000
BEYYA	IF	QUDUC		TF	FB	1.00	302.30	7.37	3900
QUDUC	FAF	LOTNE/2.00 NM TO RW30		TF	FB	0.30	302.20	3.11	
LOTNE/2.00 NM TO RW30		RW30	MAP	TF	FO	0.30	302.20	2.00	
RW30	MAP	2900 MSL		CA			302.20		2900
2900 MSL		BEYYA		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2900 THEN CLIMBING RIGHT TURN TO 5000 DIRECT BEYYA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT BEYYA				
3. FAC:	302.20	FAF: QUDUC	DIST FAF TO MAP: 5.11	DIST FAF TO THLD: 5.11	
4. MIN ALT:	BEYYA 5000, QUDUC 3900, LOTNE/2.00 NM TO RW30 2900*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	315 HAT: 0.91	GS ANT:
6. MIN GP INCPT:	3900	GP ALT AT FAF	QUDUC 3900	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 34.0	IM:
8. MSA FROM:	RW30 4100				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 8, 26 NA AT NIGHT.
CHART NOTE: BARO-VNAV NA.
*LNAV ONLY
CHART NOTE: USE WILLISTON BASIN INTL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART WILLISTON BASIN INTL ASOS
CHART CIRCLING ICON.
WAAS CHANNEL #50529
REFERENCE PATH ID: W30A
CHART FAS OBST: 2311 TREE 484604N/1042815W.
2509 AAO 484420N/1042442W.
HOLD SE, RT, 302.30 INBOUND
LTP HAE: 663.8 M



MINIMUMS:

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

ALTERNATE: NA ☒

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	2562	3/4	315	2562	3/4	315	2562	3/4	315	2562	3/4	315			
LNAV/VNAV DA	2612	1	365	2612	1	365	2612	1	365	2612	1	365			
LNAV MDA	2680	1	433	2680	1	433	2680	1 1/4	433	2680	1 1/4	433			
CIRCLING	2780	1	516	2780	1	516	2880	1 3/4	616	3100	2 3/4	836			

CHANGES - REASONS

1. ADDED CHART NOTE: BARO-VNAV NA - PER 8260.19H 8-6-9 PARA E.(8) PRIMARY KPWD ALTIMETER SOURCE DECOMMISSIONED; NEW PRIMARY REMOTE ALTIMETER KXWA NOW USED.
2. REMOVED NOTE "BARO-VNAV NA WHEN USING WILLISTON ALTIMETER SETTING" - BARO-VNAV PERMANENTLY NA DUE TO KXWA NEW PRIMARY REMOTE ALTIMTER PER 8260.19H 8-6-9 PARA E.(8).
3. REMOVED CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 29C (84F)" - BARO-VNAV REMOVED PER 8260.19H 8-6-9 PARA E.(8).
4. REMOVED VDP FROM ADDITIONAL FLIGHT DATA - PER 8260.19H PARA 8-6-9 E (9) VDP REMOVED DUE TO PRIMARY ALTIMETER SOURCE AT KPWD DECOMMISSIONED/REPLACED WITH PRIMARY REMOTE ALTIMETER SOURCE KXWA.
5. REMOVED CHART NOTE "VDP NA WITH WILLISTON ALTIMETER SETTING" - PER 8260.19H PARA 8-6-9 E (9) VDP REMOVED; PRIMARY ALTIMETER SOURCE AT KPWD DECOMMISSIONED/REPLACED WITH PRIMARY REMOTE ALTIMETER SOURCE KXWA.
6. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" - REPLACED WITH PBN NAVSPEC REQUIREMENT NOTE: "RNP APCH" PER 8260.19H PARA 8-6-8 B.(1), 8260.58A PARA 1-2-4 A. , AND 8260.54A TABLE 1-2-1.
7. ADDED "20:1 IS CLEAR" TO 8260-3 PROFILE LINE 7 - PER 8260.19H PARA 8-6-7 G.(3).
8. REMOVED CHART NOTE "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLISTON ALTIMETER SETTING AND INCREASE ALL DA 157 FT AND ALL MDA 160 FT. INCREASE LPV, LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE, LNAV CAT C AND D VISIBILITY 3/8 MILE, CIRCLING CAT C AND D VISIBILITY 1/4 MILE. " - NO LONGER REQUIRED PER 8260.19H PARA 8-6-9 F.(3) NEW PRIMARY REMOTE ALTIMETER KXWA IS ON SERVICE A; NO SUITABLE BACKUP AVAILABLE.
9. CHANGED CRC REMAINDER FROM "063FA5E5" TO "65520637" - NEW KXWA PRIMARY REMOTE ALTIMETER SOURCE RAISED LPV HAT 155 FT, CHANGING FAS DATA VERTICAL ALERT LIMIT FROM "35" TO "50" AND UPDATED FPAF LAT/LONG.
10. REMOVED ADDITIONAL FLIGHT DATA NOTE FROM "DISTANCE TO THLD FROM 200 HATH; 0.52 NM" AND MOVED TO PROFILE VIEW LINE 5: DISTANCE TO THLD FROM 315 HAT; 0.91 NM - NEW KXWA REMOTE PRIMARY ALTIMETER SOURCE RAISED HAT115 FT.
11. ADDED ADDITIONAL FLIGHT DATA NOTE "CHART CIRCLING ICON"- ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
12. RAISED LPV DA/HAT FROM 2447/200 TO 2562/315 AND ALL CATS VIS FROM 3/4 TO 7/8 SM - NEW PRIMARY REMOTE ALTIMETER FROM KXWA INCREASED MINIMUMS.
13. RAISED LNAV MDA/HAT FROM 2560/308 TO 2660/408 AND CATS C/D VIS FROM 1 TO 1 1/4 - NEW PRIMARY REMOTE ALTIMETER FROM KXWA INCREASED MINIMUMS.
14. RAISED CIRCLING CAT A MDA/HAA FROM 2680/416, CAT B FROM 2720/456 TO 2780/516 - ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
15. RAISED CIRCLING CAT C MDA/HAA FROM 2720/456 TO 2880/616 AND VIS FROM 1 1/2 TO 1 3/4 - ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
16. RAISED CIRCLING CAT D MDA/HAA FROM 2820/556 TO 3100/836 AND VIS FROM 2 TO 2 3/4 - ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
17. UPDATED SDF-MAP AND MAP-CA LEG COURSES FROM "302.16" TO "302.20" - UPDATED TO MATCH THE PROCEDURE FINAL APPROACH COURSE OF 302.20.
18. ADDED CHART NOTE: "USE WILLISTON BASIN INTL ALTIMETER SETTING". -PER 8260.19H PARA 8-6-9 F.(6).
19. ADDED "CHART WILLISTON BASIN INTL ASOS" - PRIMARY ALTIMETER OBTAINED FROM A REMOTE SOURCE.
20. RAISED LNAV-VNAV DA/HAT AND VIS FROM 2497/250 AND VIS 7/8 SM ALL CATS TO 2612/365 AND VIS 1 SM ALL CATS - NEW PRIMARY REMOTE ALTIMETER AT KXWA RAISED DA 115 FT.



AIRPORT
SHER-WOOD

AIRPORT ID
KPWD

PROCEDURE NAME
RNAV (GPS) RWY 30

ORIGINAL/AMENDMENT
ORIG-B

CITY
PLENTYWOOD

STATE
MT

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC, ARPT MGR

FLIGHT CHECKED BY

WILLIAM R GEISER

Digitally signed by

MARK D ADAMS

Aug 27, 2019

OFFICE

FICO

DATE

8/22/19

DEVELOPED BY

VICTOR BOONE

Digitally signed by

VICTOR C BOONE

Jun 21, 2019

OFFICE

AJV-5412

DATE

06/05/2019

APPROVED BY

JULIE MORGAN

Digitally signed by

MARK D ADAMS

Jul 12, 2019

OFFICE

AJV-5410

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPWD
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	484706.9505N
LTP/FTP LONGITUDE	1043104.7415W
LTP/FTP ELLIPSOIDAL HEIGHT	+06638
FPAP LATITUDE	484806.6615N
FPAP LONGITUDE	1043244.6940W
THRESHOLD CROSSING HEIGHT (TCH)	00034.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1560
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 CRC REMAINDER	 65520637

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+06821
FPAP ORTHOMETRIC HEIGHT	+06821

