

**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> KMWA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> MARION	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 472	<u>TDZE</u> 468	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 1985
<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>
AYAZE	IAF	YOSUP	NOPT	TF	FB	1.00	150.61	20.93	2400
DAHLL	IAF	YOSUP	NOPT	TF	FB	1.00	228.12	23.44	2400
TEXAS	IAF	YOSUP	NOPT	TF	FB	1.00	291.48	19.71	2400
YOSUP	IF/IAF	VANNU		TF	FB	1.00	201.72	7.00	2000
VANNU	FAF	RW20	MAP	TF	FO	0.30	201.68	4.66	
RW20	MAP	668 MSL		CA			201.68		
668 MSL		ANUKE		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 DIRECT ANUKE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N YOSUP, RT, 201.72 INBOUND, 2400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 201.68FAF: VANNUDIST FAF TO MAP: 4.66DIST FAF TO THLD: 4.66

4. MIN ALT: YOSUP 2400, VANNU 2000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.47GS ANT:

6. MIN GP INCPT: 2000GP ALT AT FAF : VANNU 2000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 49.6

8. MSA FROM: RW20 2700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV CATS C/D VISIBILITY TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART 647 TOWER 375024N/0885944W
HOLD S, RT, 021.59 INBOUND.
FAS OBST: 619 AAO 374915N/0885851W.
CHART VDP AT 1.15 NM TO RW20*
*LNAV ONLY.
WAAS CHANNEL # 57904
REFERENCE PATH ID: W20A
LTP HAE: 112.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	668	1/2	200	668	1/2	200	668	1/2	200	668	1/2	200			
LNAV/VNAV DA	773	1/2	305	773	1/2	305	773	1/2	305	773	1/2	305			
LNAV MDA	880	1/2	412	880	1/2	412	880	3/4	412	880	3/4	412			
CIRCLING	920	1	448	940	1	468	940	1 1/2	468	1040	2	568			



CHANGES - REASONS

1. DELETED FEEDER ROUTE FROM MWA VOR/DME - PER FPT REQUEST PENDING MWA VOR/DME REMOVAL (VOR MON).
2. ADDED "MAX 6000" TO PROFILE LINE 2 - IAW 8260.19H PARA 8-6-7.B (2).
3. RELOCATED "DISTANCE TO THLD FROM 200 HAT: 0.47 NM." FROM ADDITIONAL FLIGHT DATA TO PROFILE LINE 5 - IAW 8260.19H, 8-6-7.E (3).
4. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - IAW 8260.19H PARA 8-6-7.G (3).
5. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH" TO PBN REQUIREMENTS NOTE - IAW 8260.19H PARA 8-6-8.B (1).
- 6 CHANGED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C (5°F) OR ABOVE 54°C (130°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C" - IAW 8260.19H PARA 8-6-9.S.
7. ADDED 7:1 OBSTACLE 647 MSL TOWER TO ADDITIONAL FLIGHT DATA - 7:1 OBSTACLE FOUND IN NEW TARGETS EVALUATION.
8. DELETED PLANVIEW NOTE: "PROCEDURE NA FOR ARRIVALS AT MWA VOR/DME ON V429 SOUTHBOUND." - PER FPT REQUEST PENDING MWA VOR/DME REMOVAL (VOR MON).
9. RELOCATED BACKUP ALTIMETER NOTES FROM THIS FORM TO THE 8260-9 FOR CONTINGENCY PURPOSES - IAW 8260.19H, 8-6-9.F (3).
10. ADDED CHART NOTE "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV CATS C/D VISIBILITY TO 1 1/8 SM" - NEW VISIBILITY CHECK.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC, AMGR, MWA TWR

*Digitally signed by***FLIGHT CHECKED BY**

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

OFFICE**JOHN BORDY****DATE**

Nov 05, 2020

DEVELOPED BY

JOHN BORDY (ALEX BALLESTER MARTINEZ)

*Digitally signed by***JOHN BORDY**

Nov 05, 2020

OFFICE

AJV-A422

DATE

07/22/2020

APPROVED BY

MARLON ROBINSON

*Digitally signed by***JOHN BORDY**

Nov 05, 2020

OFFICE

AJV-A420

DATE**TITLE**

MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWA
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	374607.2880N
LTP/FTP LONGITUDE	0890026.4670W
LTP/FTP ELLIPSOIDAL HEIGHT	+01127
FPAP LATITUDE	374444.9700N
FPAP LONGITUDE	0890109.7500W
THRESHOLD CROSSING HEIGHT (TCH)	00049.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	CD096365

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01419
FPAP ORTHOMETRIC HEIGHT	+01419