

**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> GERALD R FORD INTL	<u>AIRPORT ID</u> KGRR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8L	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> GRAND RAPIDS	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 794	<u>TDZE</u> 786	<u>SUPERSEDED</u> RNAV (GPS) RWY 8L	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 09/14/2017	<u>MAG VAR</u> 6W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
FIVLO	IAF	HIPOP		TF	FB	1.00	151.36	12.61	2700
HIPOP	IF	JELMO		TF	FB	1.00	087.14	6.14	2400
JELMO	FAF	TECTU/2.50 NM TO RW08L		TF	FB	0.30	087.24	2.36	
TECTU/2.50 NM TO RW08L		RW08L	MAP	TF	FO	0.30	087.24	2.50	
RW08L	MAP	1037 MSL		CA			087.24		
1037 MSL		WAGMI		DF	FB	1.00			
WAGMI		CLOCK		TF	FO	1.00	337.08	16.63	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW08L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT WAGMI AND LEFT TURN ON TRACK 337.08 TO CLOCK AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT HIPOP

3. FAC:

087.24

FAF:

JELMO

DIST FAF TO MAP:

4.86

DIST FAF TO THLD:

4.86

4. MIN ALT: HIPOP 2700, JELMO 2400, TECTU/2.50 NM TO RW08L 1620*

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT:

0.65

GS ANT:

6. MIN GP INCPT:

2400

GP ALT AT FAF :

JELMO 2400

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1:

IS NOT CLEAR

20:1:

IS CLEAR

TCH:

45.0

8. MSA FROM: RW08L 3000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 8L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART: ASR
*LNAV ONLY
CHART VDP AT 1.09 NM TO RW08L*
CHART CIRCLING ICON.
WAAS CHANNEL #40213
REFERENCE PATH ID: W08A
CHART FAS OBST: 919 TREE 425231N/0853549W.
HOLD N, LT, 174.51 INBOUND
LTP HAE: 206 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	1036	1	250	1036	1	250	1036	1	250	1036	1	250			
LNAV/VNAV DA	1203	1 1/2	417	1203	1 1/2	417	1203	1 1/2	417	1203	1 1/2	417			
LNAV MDA	1180	1	394	1180	1	394	1180	1 1/8	394	1180	1 1/4	394			
CIRCLING	1260	1	466	1260	1	466	1340	1 1/2	546	1360	2	566			



CHANGES - REASONS

- 1. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" - 8260.19H 4-6-10.E.
- 2. ADDED PBN REQUIREMENTS NOTE: RNP APCH" - 8260.19H 8-6-8.
- 3. CHANGED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 54C" - IAW 8260.19H AND NEW HISTORICAL TEMPERATURE DATA.
- 4. CHANGED NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED." TO "RWY 8L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - 8260.19H PARA 8-6-11K(3).
- 5. CHANGED TDZE ELEVATION FROM 787 TO 786 - UPDATED AIRNAV DATA.
- 6. CHANGED LPV DA FROM 1037 TO 1036 AND LNAV/VNAV DA FROM 1204 TO 1203 - DUE TO TDZE CHANGING FROM 787 TO 786.
- 7. DELETE PLAINVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FIVLO ON V510 NORTHWEST BOUND - DUE TO MKG VOR/MON DECOMMISSIONED.
- 8. REMOVED FAHRENHEIT VALUES FROM UNCOMPENSATED BARO-VNAV NOTE - PER 8260.19H, CHAP 8-6-7.S.
- 9. ADDED CHARTING OF VDP - 20:1 PENETRATIONS NO LONGER EXIST.
- 10. ADDED "20:1 IS CLEAR" TO LINE 7 - VISUAL SURFACE IS CLEAR.
- 11. DELETED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - PROCEDURE IS NOW COINCIDENT.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, GRR APP CON, AMGR,

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

Digitally signed by

DAVID DANNER

DATE

Dec 03, 2019

OFFICE

AJV-A420

DATE

09/04/2019

DEVELOPED BY

DAVID DANNER (ALEXANDER MILES)

Digitally signed by

DAVID DANNER

Dec 03, 2019

APPROVED BY

MARLON ROBINSON

Digitally signed by

DAVID DANNER

Dec 03, 2019

OFFICE

AJV-A421

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGRR
RUNWAY	RW08L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	425319.7900N
LTP/FTP LONGITUDE	0853224.6890W
LTP/FTP ELLIPSOIDAL HEIGHT	+02060
FPAP LATITUDE	425333.2400N
FPAP LONGITUDE	0853024.8700W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	3A7496F4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02396
FPAP ORTHOMETRIC HEIGHT	+02396

