

**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><b>AIRPORT ID</b></u> RGK	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 27	<u><b>ORIGINAL/AMENDMENT</b></u> 3	<u><b>CITY</b></u> RED WING	<u><b>STATE</b></u> MN
<u><b>AIRPORT ELEVATION</b></u> 778	<u><b>TDZE</b></u> 777	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 27	<u><b>DATED</b></u> 09/09/2021	<u><b>MAG VAR</b></u> 2E
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 12 JUNE 2025	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>EPOCH YEAR</b></u> 1995
				<u><b>CANCEL/SUSPEND</b></u>

**TAA**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 181/30 CW 001/30	NOPT	181/26 CW 001/26		3200
2. 181/26 CW 001/26		ZAMLU	IF/IAF	3000
3. 001/30 CW 181/30		ZAMLU	IAF	3100

**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>
ZAMLU	IF/IAF	SIFRT		TF	FB	1.00	271.24	7.25	2700
SIFRT	FAF	WETUG/2.49 NM TO RW27		TF	FB	0.30	271.14	2.29	
WETUG/2.49 NM TO RW27		RW27	MAP	TF	FO	0.30	271.14	2.49	
RW27	MAP	1046 MSL		CA			271.14		
1046 MSL		JUGAN		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW27

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT JUGAN AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**                      (IAF)
- 2. HOLD E ZAMLU, RT, 271.24 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 271.14                      **FAF:** SIFRT                      **DIST FAF TO MAP:** 4.78                      **DIST FAF TO THLD:** 4.78
- 4. **MIN ALT:** ZAMLU 3000, SIFRT 2700, WETUG/2.49 NM TO RW27 1800
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **269 HAT:** 0.57                      **GS ANT:**
- 6. **MIN GP INCPT:** 2700                      **GP ALT AT PFAF:** SIFRT 2700                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:** 3.70                      **34:1:** IS NOT CLEAR                      **20:1:** IS CLEAR                      **TCH:** 45.0
- 8. **MSA FROM:**

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: CIRCLING RWY 9 NA AT NIGHT.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
 CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

**ADDITIONAL FLIGHT DATA:**

HOLD W, RT, 090.83 INBOUND.  
 CHART FAS OBST: 1192 TREE (27-062317) 443459N/0922458W.  
 CHART VDP AT 1.69 NM TO RW27.  
 WAAS CHANNEL # 99547  
 REFERENCE PATH ID: W27A  
 CHART CIRCLING ICON.  
 LTP HAE: 206.5 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - CAT C 900-2 1/2, 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	1046	3/4	269	1046	3/4	269	1077	3/4	300		NA					
LNAV/VNAV DA	1460	1 7/8	683	1460	1 7/8	683	1460	1 7/8	683		NA					
LNAV MDA	1460	3/4	683	1460	3/4	683	1460	1 7/8	683		NA					
CIRCLING	1480	1	702	1520	1	742	1640	2 1/2	862		NA					



**CHANGES - REASONS**

1. PBN REQUIREMENTS NOTE: ADDED RNAV APCH - GPS NOTE - IAW 8260.19J
2. MINIMA: ADDED LPV LINE OF MINIMA CAT A/B 1046 DA 269 HAT VIS 3/4SM, CAT C 1077 DA 300 HAT VIS 3/4SM - ATC REQUEST
3. MINIMA: ADDED LNAV/VNAV LINE OF MINIMA CATS A-C 1460 DA 683 HAT VIS 1 3/4SM - ATC REQUEST
4. MINIMA: LNAV MINS CHANGED FROM CATS A-C 1520 MDA 743 HAT CAT A VIS 3/4SM, CAT B VIS 1 1/4SM CAT C VIS 2SM TO CATS A-C 1460 MDA 683 HAT, CAT A-C VIS 1 7/8SM - ATC REQUEST
5. CHART PROFILE NOTE: ADDED VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - GPA CHANGED BY AIRPORT TO ACCOMODATE LPV OBSTACLES.
6. MINIMA: CIRCLING MINS CHANGED FROM CAT A/B 1520 MDA 742 HAA 1SM VIS, CAT C 1640 MDA 862 HAA 2 1/2SM VIS TO CAT A 1480 MDA 702 HAA 1SM VIS CAT B 1520 MDA 742 HAA 1SM VIS CAT C 1640 MDA 862 HAA 2 1/2SM VIS - ATC REQUEST
7. FINAL: SIFRT (PFAF) FIX LOCATION AND ASSOCIATED DISTANCES MOVED .35NM - IAW ATC REQUEST FOR GPA ADJUSTMENT TO 3.70 DEG.
8. FINAL: STEPDOWN FIX WETUG FIX LOCATION AND ASSOCIATED DISTANCES MOVED .21 NM - IAW ATC REQUEST TO ADJUSTMENT GPA TO 3.70 DEG.
9. FINAL INFO: VDP CHANGED FROM 2.08 TO 1.69NM - NEW GPA AND PFAF/SDF LOCATIONS
10. FINAL INFO: DIST FAF TO MAP/THLD DISTANCES CHANGED FROM 5.13 TO 4.78 - NEW PFAF LOCATION
11. FINAL INFO: FAC CHANGED FROM 271.13 TO 271.14 - NEW PFAF LOCATION
12. FINAL INFO: GPA CHANGED FROM 3.45 TO 3.70 DEG - ATC REQUEST TO ACCOMODATE LPV APCH
13. TERMINAL ROUTES: ZAMLU - SIFRT COURSE CHANGED FROM 271.25 TO 271.24 - NEW SIFRT FIX LOCATION
14. CHART NOTE: ADDED RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED IN CHART NOTES - NEW 34:1 OBSTACLES
15. CIRCLING - CHART NOTE: ADDED CIRCLING RWY 9 NA AT NIGHT. - NEW 20:1 OBSTACLES
16. CHART NOTE: ADDED FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C. - IAW 8260.19J
17. MISSED APPROACH: CA LEG ALTITUDE CHANGED FROM 1178 MSL TO 1046 MSL - NEW MINIMA SETS
18. CHART NOTE: REMOVED DME/DME RNP-0.3 NA NOTE - NOT REQUIRED IAW 8260.19J
19. BACKUP ALTIMETER NOTE: REMOVED BACKUP ALTIMETER AND ASSOCIATED NOTES - MOVED TO -9 FOR CONTINGENCY PURPOSES.
20. ADDED 20:1 IS CLEAR NOTE
21. ADDITIONAL FLIGHT DATA: REMOVED VDA, NOT APPLICABLE ON LPV PROCEDURE.
22. CHART PLANVIEW NOTE: ADDED VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

**COORDINATED WITH:**

**A4A** 
**ALPA** 
**AOPA** 
**APA** 
**HAI** 
**NBAA** 
**OTHER:** MSP ATCT, AMGR

**FLIGHT CHECKED BY**

*Digitally signed by*  
**DAVID DANNER**  
 May 01, 2025

MARC WEBBER

**OFFICE**

AJF

**DATE**

04/30/2025

**DEVELOPED BY**

JOHN BORDY (NICHOLAS HEIDERSTADT)

*Digitally signed by*  
**DAVID DANNER**  
 May 01, 2025

**OFFICE**

AJV-A33

**DATE**

10/11/2024

**APPROVED BY**

JOHN BORDY

*Digitally signed by*  
**DAVID DANNER**  
 May 01, 2025

**OFFICE**

AJV-A33

**DATE**

**TITLE**  
MANAGER



AIRPORT ID  
RGK

PROCEDURE NAME  
RNAV (GPS) RWY 27

ORIGINAL/AMENDMENT  
3

CITY  
RED WING

STATE  
MN

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRGK
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	443520.3680N
LTP/FTP LONGITUDE	0922831.3240W
LTP/FTP ELLIPSOIDAL HEIGHT	+02065
FPAP LATITUDE	443525.1045N
FPAP LONGITUDE	0923035.8305W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.70
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 10DDE24D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02367
FPAP ORTHOMETRIC HEIGHT	+02367

