

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
SJX	RNAV (GPS) RWY 27	1	BEAVER ISLAND	MI		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
670	668	RNAV (GPS) RWY 27	ORIG-B	12/30/2021	5W	1995
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		12 JUNE 2025	ROUTINE			

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>
PLN VORTAC	IAF	BODAY	NOPT	TF	FB	1.00	282.78	26.39	2600
DIPLE	IAF	BODAY	NOPT	TF	FB	1.00	191.99	5.08	2600
BODAY	IF/IAF	AMILE		TF	FB	1.00	275.96	6.00	2600
AMILE	FAF	RW27	MAP	TF	FO	0.30	275.85	5.57	
RW27	MAP	1200 MSL		CA			275.85		1200
1200 MSL		BODAY		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2600 DIRECT BODAY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | | |
|--|----------------------------|----------------|-----------------------|------------------------|---------|-----|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | |
| 2. HOLD E BODAY, RT, 275.96 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | | |
| 3. FAC: 275.85 | FAF: AMILE | | DIST FAF TO MAP: 5.57 | DIST FAF TO THLD: 5.57 | | |
| 4. MIN ALT: BODAY 2600, AMILE 2600 | | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 325 HAT: 0.84 | GS ANT: | |
| 6. MIN GP INCPT: 2600 | GP ALT AT PFAF: AMILE 2600 | | | OM: | MM: | IM: |
| 7. GP ANGLE: 3.20 | 34:1: IS NOT CLEAR | 20:1: IS CLEAR | TCH: 40.0 | | | |
| 8. MSA FROM: RW27 2900 | | | | | | |



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 5,14, 23 AND 32.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLN ALTIMETER SETTING.
CHART NOTE: RWY 27 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.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLN ALTIMETER SETTING: INCREASE LPV DA TO 1077 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1124 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.
CHART SPEED ICON IN PLANVIEW AT DIPLE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 789 TOWER (26-027656) 454111N/0853138W.
CHART VDP AT 0.78 NM TO RW27.
WAAS CHANNEL # 97547
REFERENCE PATH ID: W27A
LTP HAE: 168.2 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	993	1	325	993	1	325	993	1	325		NA				
LNAV/VNAV DA	1040	1	372	1040	1	372	1040	1	372		NA				
LNAV MDA	1040	1	372	1040	1	372	1040	1	372		NA				
CIRCLING	1100	1	430	1120	1	450	1180	1 1/2	510		NA				

CHANGES - REASONS

1. TDZE CHANGED FROM 669 TO 668 - PER AIRNAV.
2. TERMINAL ROUTES: IAF SEGMENT PLN VORTAC TO BODAY, COURSE CHANGED FROM 283.28 TO 282.78 AND DISTANCE CHANGED FROM 25.64 TO 25.64. - BODAY MOVED 4795 FT WEST TO MEET 8260.58C ALIGNMENT CRITERIA.
3. TERMINAL ROUTES: IAF SEGMENT DIPL TO BODAY COURSE CHANGED FROM 183.13 TO 191.99 AND DISTANCE CHANGED FROM 4.92 TO 5.08. - BODAY MOVED 4795 FT WEST TO MEET 8260.58C ALIGNMENT CRITERIA.
4. TERMINAL ROUTES: IF SEGMENT BODAY TO AMILE COURSE CHANGED FROM 275.36 TO 275.96 AND DISTANCE CHANGED FROM 6.50 TO 6.00. - AMILE MOVED 1733.51 FT WEST TO MEET APV GPA AND TO ALIGN WITH RCL.
5. MISSED APPROACH, MAP: ADDED LPV: DA AND LNAV/VNAV: DA. - ADDED LPV AND LNAV/VNAV LINES ON MINIMA.
6. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMBING RIGHT TURN TO 2600 DIRECT BODAY AND HOLD." TO "CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2600 DIRECT BODAY AND HOLD." - 8260.58C 3-5-2.
7. PROFILE LINE 2: INBOUND COURSE CHANGED FROM 275.36 TO 275.96, ADDED MAX 6000. - HOLD-IN-LIEU PATTERN ALIGNED WITH MODIFIED IF SEGMENT AND IAW 8260.19J 8-6-7 B (2).
8. PROFILE LINE 3: FAC CHANGED FROM 275.25 TO 275.85; DIST FAF TO MAP/THLD CHANGED FROM 5.85 TO 5.57 - FAF MOVED 1733.51 FT WEST TO MEET APV GPA AND TO ALIGN WITH RCL.
9. PROFILE LINE 5: ADDED 325 HAT: 0.84. - IAW 8260.19J 8-6-7 E.
10. PROFILE LINE 6: ADDED MIN GP INCPT: 2600 AND GP ALT AT PFAF: AMILE 2600. - REQUIRED FOR APV APPROACHES.
11. PROFILE LINE 7: ADDED GP ANGLE: 3.20, 20:1 IS CLEAR, AND TCH: 40. - REQUIRED FOR APV APPROACHES.
12. PROFILE LINE 7: 34:1 CHANGED FROM IS CLEAR TO IS NOT CLEAR. - CURRENT OBSTACLE EVALUATION.
13. PROFILE LINE 8: MSA CHANGED FROM 300 TO 2900. - CONTROLLING OBSTACLE ELEVATION CHANGED FROM 1910 MSL TO 1890 MSL.
14. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS.
NOTES: DELETED CHART NOTE: DME/DME RNP-0.3 NA. - NO LONGER REQUIRED PER 8260.19J.
15. NOTES: CHANGED BACKUP ALTIMETER CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PELLSTON ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLN ALTIMETER SETTING: INCREASE LPV DA TO 1077 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1124 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM." - IAW 8260.19J 8-6-10 F (4).
16. NOTES: ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C. - ADDED LNAV/VNAV.
17. NOTES: ADDED CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - 34:1 PENETRATIONS EXIST.
18. NOTES: ADDED CHART SPEED ICON IN PLANVIEW AT DIPL: MAX 210 KIAS. - REDUCE LEG LENGTH REQUIRED FOR ATC VECTORS.
19. NOTES: ADDED CHART NOTE "BARO-VNAV AND VDP NA WHEN USING PLN ALTIMETER SETTING." - ADDED LNAV/VNAV.
20. ADDITIONAL FLIGHT DATA: DELETED AMILE TO RW27: 3.05/40. - GP/TCH MOVED TO LINE 7 WITH APV MINIMUMS.
21. ADDITIONAL FLIGHT DATA: CHART FAS CHANGED FROM 779 TREE 454119N/0853328W TO 789 TOWER (26-027656) 454111N/0853138W. - NEW FAS OBSTACLE IDENTIFIED.
22. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 0.78 NM TO RWY 27." - 8260.3F FORMULA 2-6-5.
23. ADDITIONAL FLIGHT DATA: ADDED WAAS CHANNEL # 97547, REF PATH ID: W27A, AND LTP HAE: 168.2 M. - ADDED APV MINIMA.
24. MINIMUMS: ADDED LPV AND LNAV/VNAV MINIMA. - REQUESTED BY FPT/ATC.
25. MINIMUMS: CHANGED LNAV CATS A/B MDA/HAT FROM 1080/411 TO 1040/372; ADDED LNAV CAT C MINS. - CONTROLLING OBSTRUCTION CHANGED FROM "TREE 454119.44N/0853328.02W 779 2C" TO "TOWER (26-027656) 454111.00N/0853138.40W 789 1A" AND CAT C REQUESTED BY FPT/ATC.
26. MINIMUMS: CHANGED CIRCLING CAT A CMDA/HAA FROM 1080/411 TO 1100/430. - CONTROLLING OBSTACLE CHANGED FROM "TREE 454015.00N/0853309.00W 779 2C" TO "TREE 454242.00N/0853409.00W 779 4B".
27. ADDED CIRCLING CAT C. - REQUESTED BY FPT/ATC.
28. ADDED FAS DATA, CRC REMAINDER C6E565BE. - ADDED APV MINIMA.

COORDINATED WITH:

A4A

☐

ALPA

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AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

RAKE MCGRAW

Apr 24, 2025

OFFICE

AJF

DATE

04/23/2025

DEVELOPED BY

JOHN BORDY (RYAN PIPKIN)

Digitally signed by

RYAN B PIPKIN

Feb 12, 2025

OFFICE

AJV-A33

DATE

09/27/2024

APPROVED BY

JOHN BORDY

Digitally signed by

RAKE MCGRAW

Apr 24, 2025

OFFICE

AJV-A33

DATE

TITLE
MANAGER



AIRPORT ID
SJX

PROCEDURE NAME
RNAV (GPS) RWY 27

ORIGINAL/AMENDMENT
1

CITY
BEAVER ISLAND

STATE
MI

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSJX
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	454129.0310N
LTP/FTP LONGITUDE	0853339.2200W
LTP/FTP ELLIPSOIDAL HEIGHT	+01682
FPAP LATITUDE	454130.1890N
FPAP LONGITUDE	0853546.3170W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	C6E565BE
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02034
FPAP ORTHOMETRIC HEIGHT	+02034

QUALITY
35
CHECKED