

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> Y83	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> SANDUSKY	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 777	<u>TDZE</u> 777	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 OCTOBER 2023	<u>REQUIRED EFFECTIVE DATE</u> CONCURRENT WITH 22-AGL-22	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 187/30 CW 007/30	NOPT	MCRIK	IF/IAF	2500
2. 007/30 CW 187/30		MCRIK	IF/IAF	2500

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>
MCRIK	IF/IAF	WAALL		TF	FB	1.00	277.09	6.31	2300
WAALL	FAF	RW28	MAP	TF	FO	0.30	277.00	4.67	
RW28	MAP	1077 MSL		CA			277.00		
1077 MSL		HOTLN		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT HOTLN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD E MCRIK, LT, 277.09 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 277.00 FAF: WAALL DIST FAF TO MAP: 4.67 DIST FAF TO THLD: 4.67

4. MIN ALT: MCRIK 2500, WAALL 2300

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 300 HAT: 0.83 GS ANT:

6. MIN GP INCPT: 2300 GP ALT AT PFAF : WAALL 2300 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: 39.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART NOTE: CIRCLING NA N OF RWY 10-28.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.
CHART NOTE: USE BAD AXE ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART BAD AXE AWOS-3.
HOLD W, RT, 096.74 INBOUND.
FAS OBST: 960 AAO 432813N/0824439W.
1020 AAO 432808N/0824347W.
CHART STEELHEAD MOA.
WAAS CHANNEL # 93944
REFERENCE PATH ID: W28A
LTP HAE: 201.6 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	1077	1	300	1077	1	300	1077	1	300		NA				
LNAV/VNAV DA	1077	1	300	1077	1	300	1077	1	300		NA				
LNAV MDA	1260	1	483	1260	1	483	1260	1 3/8	483		NA				
CIRCLING	1260	1	483	1340	1	563	1680	2 3/4	903		NA				

CHANGES - REASONS

NEW PROCEDURE.

07/07/23: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/13/22.

1. ADDED NOTE 'PROCEDURE NA AT NIGHT' - UNSAT NIGHT EVALUATION.

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOB, APRT MGR**FLIGHT CHECKED BY**
BRIAN PETER CARSONDigitally signed by
RAKE MCGRAW
Aug 10, 2023**OFFICE**
FIOG**DATE**
06/22/2023**DEVELOPED BY**
RALPH DUMARDigitally signed by
RALPH DUMAR
Jul 21, 2023**OFFICE**
AJV-A422**DATE**
10/13/2022**APPROVED BY**
MARLON ROBINSONDigitally signed by
RAKE MCGRAW
Aug 10, 2023**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	Y83
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	432725.6200N
LTP/FTP LONGITUDE	0825003.7750W
LTP/FTP ELLIPSOIDAL HEIGHT	+02016
FPAP LATITUDE	432723.9280N
FPAP LONGITUDE	0825206.0840W
THRESHOLD CROSSING HEIGHT (TCH)	00039.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	70D44E8C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02360
FPAP ORTHOMETRIC HEIGHT	+02360

