

**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> I10	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> CALDWELL	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 879	<u>TDZE</u> 878	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/14/2017
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 7W
				<u>EPOCH YEAR</u> 1990
				<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>
UMVIW	IAF	ZAKFE		TF	FB	1.00	137.52	6.29	2800
RAMIQ	IAF	ZAKFE		TF	FB	1.00	317.66	6.28	2800
ZAKFE	IF	ENISY		TF	FB	1.00	227.59	4.99	2800
ENISY	FAF	RW23	MAP	TF	FO	0.30	227.55	5.01	
RW23	MAP	1279 MSL		CA			227.55		
1279 MSL		CUMBA		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LP: RW23
LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 3000 DIRECT CUMBA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT ZAKFE
- FAC: 227.55 FAF: ENISY DIST FAF TO MAP: 5.01 DIST FAF TO THLD: 5.01
- MIN ALT: ZAKFE 2800, ENISY 2800
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
- MIN GP INCPT: GP ALT AT FAF:
- GP ANGLE: 34:1 IS NOT CLEAR 20:1 IS NOT CLEAR TCH:
- MSA FROM: RW23 3400



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE ZZV ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA.

ADDITIONAL FLIGHT DATA:

CHART ZZV ASOS
HOLD SE, RT, 327.16 INBOUND.
FAS OBST: 1309 AAO 395029N/0812834W, 1279 AAO 394941N/0813008W.
WAAS CHANNEL # 48841
REFERENCE PATH ID: W23A
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
LTP HAE: 233.5 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
LP MDA	1580	1	702	1580	1	702	1580	2	702		NA				
LNAV MDA	1620	1	742	1620	1 1/4	742	1620	2	742		NA				
CIRCLING	1620	1	741	1620	1 1/4	741	1660	2 1/4	781		NA				

CHANGES - REASONS

1. TERMINAL ROUTES: DELETED FEEDER SEGMENT ZZV VOR/DME TO UMVIW AND ALL ASSOCIATED DATA – ZZV VORMON.
2. TERMINAL ROUTES: DELETED FEEDER SEGMENT CADRE TO RAMIQ AND ALL ASSOCIATED DATA – ZZV VORMON.
3. PROFILE LINE 7: ADDED “20:1 IS NOT CLEAR” – NO SURVEY, 20:1 PENS ASSUMED, 8260.19J PARA 8-6-7G(3)(A).
4. CIRCLING CAT B VIS CHANGED FROM 1 TO 1 1/4 - 8260.3F PARA 3-3-3D.
5. NOTES: DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED “RNP APCH – GPS” TO PBN EQUIPMENT NOTES – 8260.19J 8-6-8B(2).
6. DELETED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CADRE ON V59-115 SOUTHBOUND” – SEGMENT REMOVED, ZZV VORMON.
7. DELETED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ZZV VOR/DME AIRWAY RADIALS 090 CW 147” – SEGMENT REMOVED, ZZV VORMON.
8. CHANGED CHART NOTE: “USE ZANESVILLE ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA” TO .
“USE ZZV ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA” – 8260.19J 8-3-4D(2).
9. ADDITIONAL FLIGHT DATA: DELETED “1440 AAO 395112N/0812618W” – 8260.19J ATTACHMENT 4 PARA 10(2)
10. ADDITIONAL FLIGHT DATA: CHANGED “CHART ZANESVILLE ASOS” TO “CHART ZZV ASOS” – 8260.19J 8-2-4B(3).
11. DELETED “CHART CIRCLING ICON” – NO LONGER REQUIRED



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZID, AIRPORT MANAGER

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by

CASEY D HILL

May 23, 2025

DEVELOPED BY

CASEY HILL (STEVEN SCHUTRUM)

Digitally signed by

CASEY D HILL

May 23, 2025

OFFICE

AJV-A421

DATE

04/11/2025

APPROVED BY

CASEY HILL

CASEY D HILL

May 23, 2025

OFFICE

AJV-A421

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

0
0
I10
RW23
0
0
W23A
394814.7070N
0813158.3170W
+02335
394706.8995N
0813313.3895W
00000.0
F
00.00
106.75
1720
40.0
00.0

CRC REMAINDER

3249702C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K5
+02675
+02675



<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
I10	RNAV (GPS) RWY 23	1A	CALDWELL	OH	879	RNAV

[illegible]RF CENTER FIX/DISTANCEHMAS[illegible]RF CENTER FIX/DISTANCE

QUALITY
10
CHECKED

INTERMEDIATE

FROM

ZAKFE

TO

ENISY

RNP

1.00

DISTANCE

4.99

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (39-004252)	395235.69N/0812350.50W	1506	500	125	5E	500				AC125	2200
TERRAIN	395151.00N/0812551.00W	1280 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LP

FROM

ENISY

TO

RW23

RNP

0.30

DISTANCE

5.01

PAT

MAP

RW23

HAT

702

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	394941.06N/0813007.75W	1279	50	20	2C	250				RA46	1580

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

ENISY

TO

RW23

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.01		RW23		742						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	395028.89N/0812834.14W	1309	50	20	2C	250				RA46	1620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LP

FROM

RW23

TO

CUMBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							1434				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
AAO	394809.75N/0814132.23W	1380	50	20	2C	1000					2400
TERRAIN	394809.75N/0814132.23W	1180 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW23

TO

CUMBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											1474
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
AAO	394809.75N/0814132.23W	1380	50	20	2C	1000					2400
TERRAIN	394809.75N/0814132.23W	1180 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	394911.06N/0813138.61W	1.30	741	1269	50	20	2C	300		RA46	1620
CATEGORY B											
TREE	394911.06N/0813138.61W	1.84	741	1269	50	20	2C	300		RA46	1620
CATEGORY C											
TREE	394742.24N/0812900.04W	2.89	781	1299	50	20	2C	300		RA46	1660

CIRCLING REMARKS:

MSA

CENTER

RW23

RADIUS

25



SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (39-000613)	400532.25N/0811718.40W	040	20.6	2314	500	125	5E	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

25 DEGREE BANK ANGLE USED IN THE MISSED APPROACH SEGMENT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZID ARTCC, CTAF CTAF

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	ZZV	24	ZZV	18.64	Y	46
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KI10 879.3, KZZV 899.8
RA = 45.53.
NO SUFFICIENT BACK-UP ALTIMETER SOURCE AVAILABLE.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
	KZZV		

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW05 - MIRL	BSC-F	
RW23 - MIRL, PAPI-2L	BSC-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.50	63.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	413
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FULL-TIME REMOTE ALTIMETER, UNABLE TO DETERMINE IF 20:1 PENETRATIONS EXIST DUE TO A LACK OF SURVEY.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FEET VEGETATION HEIGHT USED PER FPT.

LPV, LNAV/VNAV LINES OF MINIMA NOT DEVELOPED DUE TO LACK OF SURVEY.

AIRPORT DOES NOT SUPPORT CAT D, RAPT CONSENSUS.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1440 AAO 395112N/0812618W AND 1360 AAO 395206N/0812748W.

PROCEDURE NA AT NIGHT DUE TO A LACK OF SURVEY.

UNABLE TO DETERMINE IF 34:1 AND 20:1 PENETRATIONS ACTUALLY EXIST DUE TO A LACK OF SURVEY. THERE IS A POTENTIAL PENETRATION OF UP TO 122 FT IN THE 20:1 AND UP TO 147 FT IN THE 34:1 BASED ON A MAP STUDY APPLYING 100 FT TREES.

RUNWAY HAS BASIC MARKINGS ONLY. STRAIGHT-IN MINIMUMS WILL BE RETAINED PER CRITERIA.

STEPDOWN NOT INCORPORATED INTO PROCEDURE BECAUSE IT WOULD NOT OBTAIN A 60 FT OR GREATER REDUCTION IN MDA OR 1/4 REDUCTION IN VISIBILITY OR GREATER.

"COMPUTED DESCENT ANGLE 3.50/TCH 60", REMOVED PER FLIGHT INSPECTION.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.68
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	220.55
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1100
DISTANCE FROM	THLD	TO 1500FT POINT	4.61
WIDTH OF		SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF		SEGMENT CONTAINING 1500FT POINT	220.55
HIGH TERRAIN IN		SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD COORDINATES (IF STR-IN)	394814.71N/0813158.32W
ARP COORDINATES	394803.50N/0813210.77W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 23 DISTANCE 0.25 NM
FAF COORDINATES	395203.40N/0812744.70W
FIX NAME COORDINATES	

REMARKS

THLD DISPLACED 413FT, ACTUAL COORDINATES: 394817.81N/0813154.88W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASEY HILL (STEVEN SCHUTRUM)	AJV-A421	04/11/2025	AERONAUTICAL INFORMATION SPECIALIST

