

**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>		
Y63	RNAV (GPS) RWY 32	1	ELBOW LAKE	MN		
<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SUPERSEDED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>
1206	1206	RNAV (GPS) RWY 32	ORIG-C	08/11/2022	2E	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		4 SEPTEMBER 2025	ROUTINE			

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 229/30 CW 049/30	NOPT	229/15 CW 049/15		3600
2. 229/15 CW 094/15		TOWED	IF/IAF	3300
3. 049/30 CW 229/30		TOWED	IF/IAF	3300

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>
TOWED	IF/IAF	BLADE		TF	FB	1.00	318.62	5.98	2800
BLADE	FAF	YABUT/2.64 NM TO RW32		TF	FB	0.30	318.56	2.26	
YABUT/2.64 NM TO RW32		RW32	MAP	TF	FO	0.30	318.56	2.64	
RW32	MAP	1456 MSL		CA			318.56		
1456 MSL		HUFFY		DF	FO	1.00			3300

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3300 DIRECT HUFFY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
34
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE TOWED, RT, 318.62 INBOUND, 3300 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	318.56	FAF:	BLADE	DIST FAF TO MAP:	4.90	DIST FAF TO THLD:	4.90							
4.	MIN ALT:	TOWED 3300, BLADE 2800, YABUT/2.64 NM TO RW32 2080													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.68	GS ANT:				
6.	MIN GP INCPT:	2800	GP ALT AT PFAF:	BLADE 2800			OM:				MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	40.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA NE OF RWY 14-32.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FFM ALTIMETER SETTING.
CHART NOTE: CIRCLING NA TO RWYS 11W AND 29W.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FFM ALTIMETER SETTING AND INCREASE LPV DA TO 1506 FEET; INCREASE LNAV/VNAV DA TO 1645 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 138.38 INBOUND.
CHART FAS OBST: 1336 BUILDING (27-068604) 455927N/0955851W.
CHART VDP AT 1.17 NM TO RW32.
WAAS CHANNEL # 53731
REFERENCE PATH ID: W32A
LTP HAE: 339.5 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	1456	1	250	1456	1	250		NA			NA				
LNAV/VNAV DA	1595	1 1/8	389	1595	1 1/8	389		NA			NA				
LNAV MDA	1600	1	394	1600	1	394		NA			NA				
CIRCLING	1600	1	394	1680	1	474		NA			NA				



CHANGES - REASONS

1. TERMINAL ROUTES: TOWED TO BLADE UPDATED RNP FROM "0.50" TO "1.00" - IAW 8260.58C PARA 3-1-4.
2. TERMINAL ROUTES: BLADE TO YABUT UPDATED NAME / COURSE / DISTANCE FROM "YABUT/2.60 NM TO RW32 / 318.55 / 2.30" TO "YABUT/2.64 NM TO RW32 / 318.56 / 2.26" AND REMOVED ASTERISK FROM MIN ALT AT YABUT - BLADE MOVED 4 FT, YABUT MOVED 219 FT, ASTERISK NO LONGER REQUIRED.
3. TERMINAL ROUTES: YABUT TO RW32 UPDATED NAME / COURSE / DISTANCE FROM "YABUT/2.60 NM TO RW32 / 318.55 / 2.60" TO "YABUT/2.64 NM TO RW32 / 318.56 / 2.64" - YABUT MOVED 219 FT.
4. TERMINAL ROUTES: CA LEG ALTITUDE / COURSE UPDATED FROM "1450 MSL / 318.55" TO "1456 MSL / 318.56" - LPV DA 1456, FAC CHANGE.
5. PROFILE LINE 3: FAC UPDATED FROM "318.55" TO "318.56" - FAC CHANGE.
6. PROFILE LINE 4: UPDATED YABUT FROM " YABUT/2.60 NM TO RW32 2060" TO "YABUT/2.64 NM TO RW32 2080" - YABUT MOVED 219 FT, SDF ALTITUDE INCREASE FOR CONTROLLING OBSTACLE.
7. PROFILE LINE 5: ADDED "250 HAT: 0.68" - IAW 8260/19J 8-6-7 E (3).
8. PROFILE LINE 7: UPDATED FROM "34:1: IS NOT CLEAR" TO "34:1: IS CLEAR AND 20:1: IS CLEAR" - NO PENETRATIONS, IAW 8260.19J, PARA 8-6-7 G (3).
9. NOTES: REMOVED "CHART NOTE: PROCEDURE NA AT NIGHT" - NO 20:1 OBSTACLES.
10. NOTES: UPDATED FROM "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19J PARA 8-6-10 M (1).
11. NOTES: UPDATED FROM "CHART NOTE: BARO-VNAV NA WHEN USING FERGUS FALLS ALTIMETER SETTING" TO "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FFM ALTIMETER SETTING." - IAW 8260.19J PARA 8-6-10 E (8).
12. NOTES: UPDATED FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FERGUS FALLS ALTIMETER SETTING: INCREASE LPV DA TO 1504 FEET; INCREASE LNAV/VNAV DA TO 1643 FEET AND VISIBILITY ALL CATS 1/4 MILE; INCREASE ALL MDAS 60 FEET" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FFM ALTIMETER SETTING AND INCREASE LPV DA TO 1506 FEET; INCREASE LNAV/VNAV DA TO 1645 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET" - IAW 8260.19J, PARA 8-6-11 O (3).
13. ADDITIONAL FLIGHT DATA: UPDATED FAS FROM "CHART FAS OBST: 1363 ELEVATOR 455927N/0955843W" TO "CHART FAS OBST: 1336 BUILDING (27-068604) 455927N/0955851W" - NEW CONTROLLING OBSTACLE.
14. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.17 NM TO RW32" - NO 20:1 OBSTACLES.
15. ALTERNATE: UPDATED FORM "NA" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19J PARA 8-6-12 B.
16. MINIMUMS: UPDATED LNAV/VNAV CAT A/B VISIBILITY FROM "1 3/8" TO "1 1/8" - IAW 8260.3F TABLE 3-3-1.
17. MINIMUMS: UPDATED LNAV MDA / HAT CAT A/B FROM "1580 / 374" TO "1600 / 394" - NEW CONTROLLING OBSTACLE.
18. CRC REMAINDER UPDATED FROM "AFF379F7" TO "421A6D5D" - FPAP UPDATED FROM "460001.1600N/0960036.6500W" TO "460001.1695N/0960036.6450W".

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

SHAWN D MAXWELL

Digitally signed by
ROBERT G HAMILTON
Jul 03, 2025

OFFICE

AJF

DATE

07/01/2025

DEVELOPED BY

DANIEL WESTON

Digitally signed by
DANIEL L WESTON
Apr 03, 2025

OFFICE

AJV-A422

DATE

02/28/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by
ROBERT G HAMILTON
Jul 03, 2025

OFFICE

AJV-A422

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	Y63
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	455852.4420N
LTP/FTP LONGITUDE	0955915.3515W
LTP/FTP ELLIPSOIDAL HEIGHT	+03395
FPAP LATITUDE	460001.1695N
FPAP LONGITUDE	0960036.6450W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	421A6D5D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03659
FPAP ORTHOMETRIC HEIGHT	+03659

