

**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SUPERSEDED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>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1206	1206	RNAV (GPS) RWY 32	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			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

OFFICE

DATE

DEVELOPED BY

DANIEL WESTON

Digitally signed by

DANIEL L WESTON

Apr 03, 2025

OFFICE

DATE

AJV-A422

02/28/2025

APPROVED BY

RAKE MCGRAW

OFFICE

DATE

AJV-A422

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



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<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>
Y63	RNAV (GPS) RWY 32	1	ELBOW LAKE	MN	1206	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 229/30 CW 049/30 **TO** 229/15 CW 049/15

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
<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>
TOWER (27-001046)	454159.00N/0951037.00W	2545	250	50	4D	1000					3600
TERRAIN	455057.00N/0953745.00W	1617 (1600)								AS1500	3100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 229/15 CW 094/15 **TO** TOWED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
<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>
TOWER (27-001161)	455555.00N/0952644.00W	1919	50	20	2C	1000				AT381	3300
TERRAIN	455057.00N/0953745.00W	1617 (1600)								AS1500	3100

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
34
CHECKED

STRAIGHT-IN AREA

FROM

049/30 CW 229/30

TO

TOWED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
<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	464454.00N/0953006.00W	1998	215	8	4B	1000					3000
TERRAIN	461154.00N/0953006.00W	1797 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

TOWED (IF/IAF)

TO

BLADE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.98										
<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>
TOWER (27-088112)	455428.64N/0955413.69W	1496	20	3	1A	500					2000
TERRAIN	455424.00N/0955018.00W	1279 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

BLADE

TO

RW32

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.90		DA				250				
<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>
TREE (27-033099)	455843.20N/0955911.94W	1235	20	3	1A		34.00:1				1456

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

BLADE

TO

RW32

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.90		DA				389				
<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>
BUILDING (27-068604)	455926.74N/0955850.71W	1336	20	3	1A	142				XP117	1595

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MAINTAIN PUBLISHED MINIMUMS AT MANAGEMENT REQUEST



FINAL: LNAV

FROM

BLADE

TO

YABUT/2.64 NM TO RW32

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.26										
<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>
TOWER (27-002890)	455556.50N/0955653.70W	1703	250	50	4D	250				RA60 AC50	2080

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

YABUT/2.64 NM TO RW32

TO

RW32

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.64		RW32		394						
<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>
BUILDING (27-068604)	455926.74N/0955850.71W	1336	20	3	1A	250					1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

TOWED

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<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>
TOWER (27-001545)	454834.98N/0954412.32W	1744	500	50	5D	1000				AT556	3300
TERRAIN	454909.00N/0953821.00W	1528 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

HUFFY

<u>RNP</u> 0.30	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 1266			
<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				3300
AAO	460227.00N/0960145.00W	1388	215	8	4B	1000					2400
TERRAIN	455942.00N/0955839.00W	1227 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

HUFFY

<u>RNP</u> 0.30	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1453				
<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				3300
AAO	460227.00N/0960145.00W	1388	215	8	4B	1000					2400
TERRAIN	455942.00N/0955839.00W	1227 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW32

TO

HUFFY

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1500				
<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				3300
AAO	460227.00N/0960145.00W	1388	215	8	4B	1000					2400
TERRAIN	455942.00N/0955839.00W	1227 (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 (27-067947)	455930.05N/0960059.13W	1.31	394	1287	20	3	1A	300			1600
CATEGORY B											
ANTENNA (27-037156)	455743.78N/0960107.55W	1.85	474	1373	50	20	2C	300			1680

CIRCLING REMARKS:

CIRCLING RESTRICTED NE OF AIRPORT DUE TO OBSTRUCTION

MSA/ESA

CENTERRADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	Y63	24	Y63	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	FFM	24	FFM	19.27	Y	50

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
Y63 1206, FFM 1170
RA = 49.1.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW29W			
RW11W			
RW14 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW32 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1200.5	40.0			3.00	26.1

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-17C	+54C	-17C	+12.61C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 721 HIGH TEMP 1142.

"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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
100 FT VEGETATION USED PER FPT.
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	3.01
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	320.56
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1200
DISTANCE FROM	THLD	TO 1500FT POINT	4.70
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	320.56
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1200

THRESHOLD COORDINATES (IF STR-IN) 455852.44N/0955915.35W
ARP COORDINATES 455910.20N/0955908.70W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 29 DISTANCE 0.53 NM
FAF COORDINATES 455505.69N/0955447.67W
FIX NAME COORDINATES

REMARKS
IF/IAF TOWED 455028.43N 0954921.40W 30 NM RADIUS

PART E: PREPARED BY

NAME

DANIEL WESTON

OFFICE

AJV-A422

DATE

02/28/2025

TITLE

AERONAUTICAL INFORMATION SPECIALIST

