

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> KAXN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> ALEXANDRIA	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1425	<u>TDZE</u> 1425	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 315/30 CW 135/30	NOPT	LLIAN	IF/IAF	3100
2. 135/30 CW 315/30		135/15 CW 315/15		3600
3. 135/15 CW 315/15		LLIAN	IF/IAF	3100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LLIAN	IF/IAF	BENNA		TF	FB	1.00	045.14	6.00	3000
BENNA	FAF	RW04	MAP	TF	FO	0.30	045.22	4.81	
RW04	MAP	1675 MSL		CA			045.22		
1675 MSL		KILVE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW04

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT KILVE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
10
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SW LLIAN, RT, 045.14 INBOUND, 3100 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 045.22FAF: BENNADIST FAF TO MAP: 4.81DIST FAF TO THLD: 4.81

4. MIN ALT: LLIAN 3100, BENNA 3000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 3000GP ALT AT PFAF : BENNA 3000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 43.6

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 04 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 225.44 INBOUND.
CHART FAS OBST: 1592 TOWER (27-022134) 455121N/0952329W.
1650 AAO 454813N/0952757W.
CHART VDP AT 1.22 NM TO RW04.
WAAS CHANNEL # 90245
REFERENCE PATH ID: W04A
LTP HAE: 408.3 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	1675	1	250	1675	1	250	1675	1	250	1675	1	250			
LNAV/VNAV DA	1826	1 1/8	401	1826	1 1/8	401	1826	1 1/8	401	1826	1 1/8	401			
LNAV MDA	1860	1	435	1860	1	435	1860	1 1/4	435	1860	1 1/4	435			
CIRCLING	1900	1	475	1900	1	475	1940	1 1/2	515	2000	2	575			

CHANGES - REASONS

AIRPORT ID
KAXN

PROCEDURE NAME
RNAV (GPS) RWY 4

ORIGINAL/AMENDMENT
ORIG

CITY
ALEXANDRIA

STATE
MN

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY

GLEN B FREEMAN

Digitally signed by

CASIMIR L TABAKA

Aug 17, 2023

OFFICE

FPO

DATE

08/15/2023

DEVELOPED BY

CHRISTOPHER SCHONES

Digitally signed by

CHRISTOPHER SCHONES

May 18, 2023

OFFICE

AJV-A432

DATE

04/13/2023

APPROVED BY

CASIMIR TABAKA

Digitally signed by

CASIMIR L TABAKA

May 23, 2023

OFFICE

AJV-A432

DATE

10/05/2023

TITLE

MANAGER

QUALITY
10
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAXN
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	455145.3330N
LTP/FTP LONGITUDE	0952358.8115W
LTP/FTP ELLIPSOIDAL HEIGHT	+04083
FPAP LATITUDE	455243.4190N
FPAP LONGITUDE	0952222.1370W
THRESHOLD CROSSING HEIGHT (TCH)	00043.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1504
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	65496F4F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04344
FPAP ORTHOMETRIC HEIGHT	+04344



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

<u>AIRPORT ID</u> KAXN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>AMDT NO.</u> ORIG	<u>CITY</u> ALEXANDRIA	<u>STATE</u> MN	<u>AIRPORT ELEVATION</u> 1425	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
315/30 CW 135/30

TO
LLIAN

<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	455100.00N/0953754.00W		1765	164	98	4E	1000				AT335	3100
TERRAIN	452427.00N/0951133.00W		1427 (1400)								AS1500	2900

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
135/30 CW 315/30

TO
135/15 CW 315/15

<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	461154.00N/0952948.00W		1781 (1800)								AS1500	3300

COMPUTATIONS

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

SEGMENT REMARKS:



STRAIGHT-IN AREA

FROM
135/15 CW 315/15

TO
LLIAN

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (27-001161)	455555.00N/0952644.00W		1919	50	20	2C	1000					3000
TERRAIN	455100.00N/0953415.00W		1564 (1600)								AS1500	3100

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

INTERMEDIATE

FROM
LLIAN (IF/IAF)

TO
BENNA

<u>RNP</u>	<u>DISTANCE</u> 6.00	<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	454803.00N/0953409.00W		1683	164	98	4E	500					2200
TERRAIN	454812.00N/0953415.00W		1482 (1500)								AS1500	3000

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



FINAL: LPV

FROM

BENNA

TO

RW04

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.81		DA		250							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (27-047927)	455133.62N/0952423.83W		1492	20	3	1A		34.00:1				1675

COMPUTATIONS

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

FINAL: LNAV/VNAV

FROM

BENNA

TO

DA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.81		DA		401							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (27-026815)	455059.93N/0952502.74W		1535	20	10	1B		23.91:1				1826

COMPUTATIONS

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



FINAL: LNAV

FROM
BENNA

TO
RW04

<u>RNP</u>	<u>DISTANCE</u> 4.81	<u>PAT</u>	<u>MAP</u> RW04	<u>HAT</u> 435			<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 (27-022134)	455121.35N/0952328.85W		1592	20	3	1A	250					1860

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
LLIAN

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>
AAO	454830.00N/0953536.00W		1697	164	98	4E	1000				AT403	3100
TERRAIN	454830.00N/0953536.00W		1496 (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

KILVE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1488					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
TOWER (27-001210)	455325.32N/0951736.60W		1715	250	50	4D	1000				SA-19	2700
TERRAIN	455257.00N/0952054.00W		1496 (1500)								AS1500	3000

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

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

KILVE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1665					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
TOWER (27-001210)	455325.32N/0951736.60W		1715	250	50	4D	1000				SA-19	2700
TERRAIN	455257.00N/0952054.00W		1496 (1500)								AS1500	3000

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



MISSED APPROACH : LNAV

FROM

RW04

TO

KILVE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1760					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
TOWER (27-001210)	455325.32N/0951736.60W		1715	250	50	4D	1000				SA-19	2700
TERRAIN	455257.00N/0952054.00W		1496 (1500)								AS1500	3000

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
TOWER (27-022134)	455121.35N/0952328.85W	1.31	475	1592	20	3	1A	300			1900
CATEGORY B											
TOWER (27-022134)	455121.35N/0952328.85W	1.86	475	1592	20	3	1A	300			1900
CATEGORY C											
TOWER (27-001960)	455234.00N/0952806.00W	2.92	515	1637	50	10	2B	300			1940
CATEGORY D											
TOWER (27-000900)	455247.00N/0951836.00W	3.82	575	1687	100	20	3C	300			2000

CIRCLING REMARKS:



CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT: 100 FT

ATC/FPT REQUESTED VISIBILITY NO LESS THAN 1 SM PER ALP.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC, PNM FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KAXN	24	KAXN	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	KGHW	24	KGHW	13.71	Y	36

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KAXN 1425, KGHW 1394
RA=36

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW04 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW22 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW13 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		PIR-G	
RW31 - MIRL (PCL), ODALS (PCL), PAPI-4L (PCL)		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	1425.1	43.6			3.00	43.6

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-22C	+54C	-30C	+12.18C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2018-2022).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 974 HIGH TEMP 1285.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV
34:1	
1492 TREE (27-047927) 455133.6200N/0952423.8300W (10.5482)	

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.

BACKUP ALTIMETER NOTE: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GLENWOOD MUNI ALTIMETER SETTING AND INCREASE LPV DA TO 1711 FEET. INCREASE LNAV/VNAV DA TO 1862 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM.

BARO-VNAV AND VDP NA WHEN USING GLENWOOD MUNI ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1650 AAO 454813.30N/0952756.54W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<div>AIRPORT ID KAXN</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 4</div>	<div>AMDT NO. ORIG</div>	<div>CITY ALEXANDRIA</div>	<div>STATE MN</div>	<div>AIRPORT ELEVATION 1425</div>	<div>FACILITY RNAV</div>
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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	3.14
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	049.22
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1500
DISTANCE FROM	THLD	TO 1500FT POINT	4.81
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	049.22
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1500

THRESHOLD
COORDINATES
(IF STR-IN)

455145.33N/0952358.81W

ARP COORDINATES

455158.70N/0952340.80W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 13 DISTANCE 0.45 NM

FAF
COORDINATES

454837.06N/0952911.40W

FIX NAME
COORDINATES

REMARKS

QUALITY
10
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 10 of 11

PART E: PREPARED BY

<u>NAME</u> CHRISTOPHER SCHONES	<u>OFFICE</u> AJV-A432	<u>DATE</u> 04/13/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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