

**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> KBIL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 25	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> BILLINGS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3662	<u>TDZE</u> 3586	<u>SUPERSEDED</u> RNAV (GPS) RWY 25	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
BIL VORTAC		MUMEE		TF	FO	1.00	075.30	14.67	6000
NIBBE	IAF	MUMEE	NOPT	TF	FB	1.00	224.70	11.26	6000
SEXPE	IAF	MUMEE	NOPT	TF	FB	1.00	311.94	17.39	6000
MUMEE	IF/IAF	FASOK		TF	FB	1.00	254.23	5.88	5200
FASOK	FAF	RW25	MAP	TF	FO	0.30	254.08	5.12	
RW25	MAP	3836 MSL		CA			254.08		
3836 MSL		OLOLE		DF	FB	1.00			
OLOLE		OXIVY		TF	FO	1.00	300.00	6.88	6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW25

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT OLOLE AND ON TRACK 300.00 TO OXIVY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD E MUMEE, RT, 254.23 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAF: 254.08FAF: FASOKDIST FAF TO MAP: 5.12DIST FAF TO THLD: 5.12

4. MIN ALT: MUMEE 6000, FASOK 5200

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.84GS ANT:

6. MIN GP INCPT: 5200GP ALT AT FAF : FASOK 5200OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 36.0

8. MSA FROM: RW25 8300

PBN REQUIREMENTS NOTE:

RNP APCH-GPS

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BIL VORTAC AIRWAY RADIALS 045 CW 160.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.22 NM TO RW25
CHART FAS OBST: 3707 CONTROL_TOWER (30-020569) 454814N/1083223W.
LTP HAE: 1063.8 M
HOLD W, RT, 111.00 INBOUND.
WAAS CHANNEL # 78028
REFERENCE PATH ID: W25A
CHART CIRCLING ICON.
LTP HAE: 1063.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 1000-3

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	3836	1	250	3836	1	250	3836	1	250	3836	1	250			
LNAV/VNAV DA	3920	1 3/8	334	3920	1 3/8	334	3920	1 3/8	334	3920	1 3/8	334			
LNAV MDA	3960	1	374	3960	1	374	3960	1	374	3960	1	374			
CIRCLING	4100	1	438	4160	1	498	4180	1 1/2	518	4580	3	918			



CHANGES - REASONS

1. UPDATED AIRPORT ELEVATION FROM 3652 TO 3662. - NEW AIRNAV DATA.
2. UPDATED RNP ON FEEDER ROUTE BIL VORTAC TO MUMEE FROM 2 TO 1 - 8269.19I REQUIREMENT.
3. DELETED CHART NOTE: DME/DME RNP-0.3 NA. - 8260.19I REQUIREMENT.
4. ADDED PBN EQUIPMENT NOTE: RNP APCH-GPS - 8260.19I REQUIREMENT.
5. REMOVED FAHRENHEIT FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C (-13°F) OR ABOVE 54°C (130°F). - 8260.19I REQUIREMENT.
6. CIRCLING HAAS CHANGED FROM CAT A 448 TO 438, CAT B 508 TO 498, CAT C 528 TO 518, CAT D 928 TO 918. - AIRPORT ELEVATION RAISED TEN FEET.
7. ADDED MAX HOLDING ALT TO LINE 2 OF PROFILE VIEW. - NEW DATA.
8. ADDED 20:1 IS CLEAR TO LINE 7. - 8260.19I REQUIREMENT.
9. ADDED RNP 1.0 TO OLOLE POINT IN TERMINAL ROUTES. - 8260.19I REQUIREMENTS.
10. CHANGED CHART VDP AT 1.22 NM TO RW25* TO CHART VDP AT 1.22 NM TO RW25. - 8260.19I REQUIREMENT.
11. CHANGED CHART FAS OBST: 3707 CONTROL_TOWER 454814N/1083223W. TO CHART FAS OBST: 3707 CONTROL_TOWER (30-020569) 454814N/1083223W. - 8260.19I REQUIREMENT.
12. REMOVED *LNAV ONLY FROM ADDITIONAL FLIGHT DATA. 8260.19I REQUIREMENT.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: BIL APCH, BIL ATCT, AMGR, ZLC

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

JON DENTON (JOHN KEEFER)

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

Feb 25, 2021

Digitally signed by

JON DENTON

Feb 25, 2021

OFFICE

OFFICE

OFFICE

Digitally signed by

JON DENTON

Feb 25, 2021

DATE

DATE

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBIL
RUNWAY	RW25
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W25A
LTP/FTP LATITUDE	454833.3190N
LTP/FTP LONGITUDE	1083213.0200W
LTP/FTP ELLIPSOIDAL HEIGHT	+10638
FPAP LATITUDE	454823.9775N
FPAP LONGITUDE	1083419.6900W
THRESHOLD CROSSING HEIGHT (TCH)	00036.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	10529B1A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10771
FPAP ORTHOMETRIC HEIGHT	+10771

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

<u>AIRPORT ID</u> KBIL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 25	<u>AMDT NO.</u> 2A	<u>CITY</u> BILLINGS	<u>STATE</u> MT	<u>AIRPORT ELEVATION</u> 3662	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
BIL VORTAC

TO
MUMEE

<u>RNP</u>	<u>DISTANCE</u> 14.67	<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>
1.TOWER (30-000410)	454827.06N/1082027.81W		4272	20	3	1A	2000				MT-272	6000
2.TERRAIN	454751.42N/1082132.12W		3920 (3900)								AS1500	5400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
NIBBE

TO
MUMEE

<u>RNP</u>	<u>DISTANCE</u> 11.26	<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>
3.AAO	454909.00N/1081245.00W		4118	50	20	2C	1000				AT882	6000
4.TERRAIN	454909.00N/1081245.00W		3918 (3900)								AS1500	5400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FACILITY
RNAV

HMASRF CENTER FIX/DISTANCEHMASRF CENTER FIX/DISTANCE

QUALITY
6
CHECKED

FINAL: LPV

FROM
FASOK

TO
RW25

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<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>
								ASC			XP50	3836

COMPUTATIONS

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

XP TO MAINTAIN CURRENT DA.

FINAL: LNAV/VNAV

FROM
FASOK

TO
RW25

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 334			<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>
7.CONTROL_TOWER (30-020569)	454813.52N/1083223.14W		3707	20	3	1A	161					3920

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

FASOK

TO

RW25

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.12		RW25		374							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.CONTROL_TOWER (30-020569)	454813.52N/1083223.14W		3707	20	3	1A	250					3960

COMPUTATIONS

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

HOLD-IN-LIEU OF PT

FROM

MUMEE

TO

P-6

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-6										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (30-000410)	454827.06N/1082027.81W		4272	20	3	1A	1000				AT728	6000
8.TERRAIN	454614.52N/1080836.12W		4040 (4000)								AS1500	5500

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 : LPV

FROM

DA

TO

OXIVY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3597					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				6000
9.AAO	455201.54N/1084631.83W		4456	50	20	2C	1000					5500
10.TERRAIN	455201.54N/1084631.83W		4256 (4300)								AS1500	5800

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

OXIVY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3707					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				6000
9.AAO	455201.54N/1084631.83W		4456	50	20	2C	1000					5500
10.TERRAIN	455201.54N/1084631.83W		4256 (4300)								AS1500	5800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW25

TO

OXIVY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3860				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
9.AAO	455201.54N/1084631.83W	4456	50	20	2C	1000					5500
10.TERRAIN	455201.54N/1084631.83W	4256 (4300)								AS1500	5800

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											
11.POLE (30-024018)	454833.81N/1083527.11W	1.36	438	3795	20	3	1A	300			4100
CATEGORY B											
12.TOWER (30-000140)	454813.96N/1083554.04W	1.94	498	3859	20	3	1A	300			4160
CATEGORY C											
13.BUILDING (30-059138)	454818.31N/1083756.81W	3.07	518	3878	20	3	1A	300			4180
CATEGORY D											
14.TOWER (30-000339)	454535.06N/1082702.22W	4.01	918	4261	20	3	1A	300			4580

CIRCLING REMARKS:



MSA

CENTER

RW25

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	452042.00N/1082627.00W	162	28.2	7235	50	20	2C	1000			8300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

LNAV/VNAV: 23.75:1

TAA NOT DEVELOPED PER FPT CHECKLIST.

AVERAGE VEGETATION ASSUMED TO BE 30 FT PER FPT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
BIL APP CON, BIL TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KBIL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBIL	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 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>

WX REMARKS:
BACKUP ALTIMETER NA: NO WX SOURCES W/IN 75NM.

<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>
RW10R - MIRL		BSC-F	
RW28L - MIRL		BSC-F	
RW07 - MIRL, PAPI-4L		NPI-G	
RW25 - MIRL, REIL, PAPI-4R		NPI-G	
RW10L - MALSR, HIRL, PAPI-4L		PIR-G	APPROACH
RW28R - HIRL, REIL, PAPI-4R		PIR-G	ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 3533.8	<u>TCH</u> 36.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 36.0
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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> -25C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -25C	<u>APT ISA</u> +7.77C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2012-2016).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 1003 HIGH TEMP 1171.



"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<div>AIRPORT ID</div> <div>KBIL</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) RWY 25</div>	<div>AMDT NO.</div> <div>2A</div>	<div>CITY</div> <div>BILLINGS</div>	<div>STATE</div> <div>MT</div>	<div>AIRPORT ELEVATION</div> <div>3662</div>	<div>FACILITY</div> <div>RNAV</div>
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	3.24			
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20			
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	264.08			
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3600			
DISTANCE FROM	THLD	TO 1500FT POINT	9.80			
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00			
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	264.23			
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3900			
THRESHOLD COORDINATES (IF STR-IN)	454833.32N/1083213.02W					
ARP COORDINATES	454828.26N/1083236.76W					
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 28R DISTANCE 1.19 NM					
FAF COORDINATES	454905.22N/1082456.34W					
FIX NAME COORDINATES						
REMARKS						

QUALITY

6

CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JON DENTON (JOHN KEEFER)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 01/08/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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