

**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> BMI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BLOOMINGTON/NORMAL	<u>STATE</u> IL
<u>AIRPORT ELEVATION</u> 871	<u>TDZE</u> 871	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>DATED</u> 10/15/2015	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>
			<u>MAG VAR</u> 3W	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HUMUL		FENLO		TF	FB	1.00	143.78	6.65	2500
JILLY		HUGUD		TF	FB	1.00	235.88	10.37	2500
MCLEN		RUNAE		TF	FO	1.00	045.36	20.66	2500
FENLO	IAF	RUNAE	NOPT	TF	FB	1.00	110.87	6.50	2500
HUGUD	IAF	RUNAE	NOPT	TF	FB	1.00	291.05	6.50	2500
RUNAE	IF/IAF	UDIYO		TF	FB	1.00	200.96	6.04	2500
UDIYO	FAF	RW20	MAP	TF	FO	0.30	200.93	4.96	
RW20	MAP	1500 MSL		CA			200.93		1500
1500 MSL		MCLEN		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MCLEN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD N RUNAE, RT, 200.96 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 200.93	FAF: UDIYO		DIST FAF TO MAP: 4.96	DIST FAF TO THLD: 4.96	
4. MIN ALT: RUNAE 2500, UDIYO 2500					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.47	GS ANT:
6. MIN GP INCPT: 2500	GP ALT AT PFAF: UDIYO 2500			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 58.1		IM:
8. MSA FROM: RW20 2800					

QUALITY
21
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PIA ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JILLY ON V173 NORTHEAST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PIA ALTIMETER SETTING: INCREASE LPV DA TO 1187 FEET AND ALL VISIBILITIES TO RVR 2400; INCREASE LNAV/VNAV DA TO 1417 FEET AND ALL VISIBILITIES TO RVR 6000; INCREASE ALL MDAS 120 FEET AND LNAV VISIBILITY CAT C AND D TO RVR 5500 AND CIRCLING VISIBILITY CAT C AND D 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND D VISIBILITY TO RVR 6000.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING PIA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 036.67 INBOUND.
FAS OBST: 1011 AAO 403218N/0885306W.
CHART VDP AT 1.13 NM TO RW20.
WAAS CHANNEL # 99303
REFERENCE PATH ID: W20A
CHART CIRCLING ICON.
LTP HAE: 230.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, 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	1071	1800	200	1071	1800	200	1071	1800	200	1071	1800	200			
LNAV/VNAV DA	1301	4000	430	1301	4000	430	1301	4000	430	1301	4000	430			
LNAV MDA	1280	2400	409	1280	2400	409	1280	4000	409	1280	4000	409			
CIRCLING	1340	1	469	1340	1	469	1620	2 1/4	749	1620	2 1/2	749			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED INITIAL SEGMENT FROM PNT VOR/DME - PNT VOR MON PROGRAM.
2. TERMINAL ROUTES: REPLACED YABUN FIX WITH FENLO FIX, CHANGED THE SEGMENT COURSE FROM 137.88 TO 143.78 AND DISTANCE FROM 7.95 TO 6.65 - FIX REPLACED PER ATC REQUEST.
3. TERMINAL ROUTES: CHANGED JILLY TO HUGUD COURSE FROM 242.14 TO 235.88 AND COURSE FROM 11.29 TO 10.37 - HUGUD RELOCATED PER ATC REQUEST.
4. TERMINAL ROUTES: CHANGED SEGMENT FROM "YABUN TO RUNAE" TO "FENLO TO RUNAE", CHANGED THE COURSE FROM 110.89 TO 110.87 AND DISTANCE FROM 5.00 TO 6.50 - FIX REPLACED PER ATC REQUEST.
5. TERMINAL ROUTES: CHANGED HUGUD TO RUNAE SEGMENT COURSE FROM 291.03 TO 291.05 AND DISTANCE FROM 5.00 TO 6.50 - HUGUD RELOCATED PER ATC REQUEST.
6. TERMINAL ROUTES: CHANGED RUNAE TO UDIYO SEGMENT DISTANCE FROM 6.10 TO 6.04 - FAF RELOCATED BASED ON GPA/TCH.
7. TERMINAL ROUTES: CHANGED UDIYO TO RW20 SEGMENT DISTANCE FROM 4.90 TO 4.96 - FAF RELOCATED BASED ON GPA/TCH.
8. TERMINAL ROUTES: CHANGED CA LEG ALTITUDE FROM 1121 MSL TO 1500 MSL AND ADDED ALTITUDE 1500 - MISSED APPROACH REDESIGNED PER ATC REQUEST.
9. TERMINAL ROUTES: REMOVED JINUB DF - MISSED APPROACH REDESIGNED PER ATC REQUEST.
10. TERMINAL ROUTES: CHANGED MCLEN FROM TF TO DF LEG AND REMOVED COURSE AND DISTANCE - MISSED APPROACH REDESIGNED PER ATC REQUEST.
11. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3000 DIRECT JINUB AND ON TRACK 287.74 TO MCLEN AND HOLD" TO "CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MCLEN AND HOLD" - MISSED APPROACH REDESIGNED PER ATC REQUEST.
12. PROFILE LINE 2: ADDED "MAX 6000" - PER 8260.19J, PARA 8-6-7B(2).
13. PROFILE LINE 3: CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 4.90 TO 4.96 - FAF RELOCATED BASED ON GPA/TCH.
14. PROFILE LINE 5: ADDED "200 HAT: 0.47" - PER 8260.19J, PARA 8-6-7E(3).
15. PROFILE LINE 7: ADDED "20:1: IS CLEAR" - NO PENETRATIONS EXIST.
16. PROFILE LINE 7: CHANGED TCH FROM 54.9 TO 58.1 - TCH MATCHING ILS OR LOC RWY 20 PROCEDURE.
17. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE "RNP APCH - GPS" - PER 8260.19J, PER 8-6-8D(2).
18. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 54°C (130°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C" - FAHRENHEIT VALUES NO LONGER REQUIRED, NEW EVALUATION WITH UPDATED CRITICAL TEMPERATURES.
19. CHANGED CHART NOTE FROM "BARO-VNAV AND VDP NA WHEN USING GENERAL DOWNING-PEORIA INTL ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING PIA ALTIMETER SETTING" - PER 8260.19J, PARA 8-6-10E(8)&(9).
20. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GENERAL DOWNING-PEORIA INTL ALTIMETER SETTING: INCREASE ALL DA 116 FT AND ALL MDA 120 FT; INCREASE LPV ALL CATS VISIBILITY TO 3/4 MILE, LNAV/VNAV ALL CATS VISIBILITY TO 1 3/8 MILE, LNAV CATS C/D VISIBILITY TO 1 MILE, AND CIRCLING CATS C/D VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PIA ALTIMETER SETTING: INCREASE LPV DA TO 1187 FEET AND ALL VISIBILITIES TO RVR 2400; INCREASE LNAV/VNAV DA TO 1417 FEET AND ALL VISIBILITIES TO RVR 6000; INCREASE ALL MDAS 120 FEET AND LNAV VISIBILITY CAT C AND D TO RVR 5500 AND CIRCLING VISIBILITY CAT C AND D 1/4 SM" - NEW FORMAT AND VISIBILITY CALCULATIONS.
21. REMOVED CHART PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT PNT VOR/DME VIA V313 NORTH BOUND" - PNT VOR/DME REMOVED FROM PROCEDURE DUE TO VOR MON PROGRAM.
22. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALSF INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000" TO "FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND D VISIBILITY TO RVR 6000" - PER CURRENT CRITERIA STANDARDS DOCUMENTATION.
23. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALSF-2 WHEN USING GENERAL DOWNING-PEORIA INTL ALTIMETER SETTING INCREASE LPV ALL CATS VISIBILITY TO RVR 6000" TO "FOR INOPERATIVE ALS WHEN USING PIA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500" - PER 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.
24. ADDITIONAL FLIGHT DATA: REMOVED "CHART APT ELEV 871" - NOW DOCUMENTED AT THE BEGINNING OF 8260-3 FORM.
25. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM "1019 AAO 403229N/0885348W" TO "1011 AAO 403218N/0885306W" - NEW CONTROLLING OBSTACLE.
26. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART VDP AT 1.14 NM TO RW20" TO "CHART VDP AT 1.13 NM TO RW20" - TCH CHANGED TO MATCH THE ILS OR LOC RWY 29.
27. ADDITIONAL FLIGHT DATA: REMOVED "*LNAV ONLY" - NO LONGER REQUIRED.
28. ADDITIONAL FLIGHT DATA: REMOVED "DISTANCE TO THLD FROM 250 HAT: 0.64 NM" - NOW DOCUMENTED ON PROFILE LINE 5.
29. CHANGED LPV ALL CATS MINIMUMS DA/HAT FROM 1121/250 TO 1071/200 AND ALL CATS VISIBILITIES FROM 2400 RVR TO 1800 RVR - LPV ASC, PER 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.
30. CHANGED LNAV/VNAV ALL CATS VISIBILITIES FROM 5000 RVR TO 4000 RVR - PER 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.
31. CHANGED CRC REMINDER FROM "CB84ECFE" TO "67D4DBE1" - TCH CHANGED FROM 54.9 TO 58.1 TO MATCH THE ILS OR LOC RWY 20 PROCEDURE, VERTICAL ALERT LIMIT (VAL) CHANGED FROM 50.0 TO 35.0.



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:

ZAU, PIA APP CON, BMI ATCT, ARPT MGR

FLIGHT CHECKED BY

MICHAEL A GREENWOOD

Digitally signed by

JOSEPH L ZEDER

Oct 08, 2024

OFFICE

FPO

DATE

09/06/2024

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

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JOSEPH L ZEDER

Oct 08, 2024

OFFICE

AJV-A432

DATE

05/08/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

JOSEPH L ZEDER

Oct 08, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBMI
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	402905.8015N
LTP/FTP LONGITUDE	0885425.8625W
LTP/FTP ELLIPSOIDAL HEIGHT	+02309
FPAP LATITUDE	402740.9600N
FPAP LONGITUDE	0885501.7600W
THRESHOLD CROSSING HEIGHT (TCH)	00058.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	67D4DBE1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02629
FPAP ORTHOMETRIC HEIGHT	+02629



**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>
BMI	RNAV (GPS) RWY 20	2	BLOOMINGTON/NORMAL	IL	871	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM HUMUL **TO** FENLO

RNP 1.00 **DISTANCE** 6.65 **PAT** **MAP** **HAT** **HMAS**

<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 (17-002781)	404505.03N/0890236.63W	1052	20	3	1A	1000				AT448	2500
TERRAIN	404418.00N/0890206.00W	790 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM JILLY **TO** HUGUD

RNP 1.00 **DISTANCE** 10.37 **PAT** **MAP** **HAT** **HMAS**

<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>
WINDMILL (17-072488)	403835.69N/0883659.24W	1352	250	50	4D	1000				AT148	2500
TERRAIN	403857.00N/0883748.00W	803 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
21
CHECKED

FEEDER

FROM

MCLN

TO

RUNAE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	20.66										
<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>
WINDMILL (17-087687)	403046.32N/0890258.24W	1303	250	50	4D	1000				AT197	2500
TERRAIN	403221.00N/0885912.00W	895 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

FENLO

TO

RUNAE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	6.50										
<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>
WINDMILL (17-075819)	403927.42N/0884945.76W	1261	250	50	4D	1000				AT239	2500
TERRAIN	404209.00N/0885703.00W	767 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

HUGUD

TO

RUNAE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.50				

<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>
WINDMILL (17-075292)	403622.61N/0884250.87W	1266	250	50	4D	1000				AT234	2500
TERRAIN	403848.00N/0884912.00W	774 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

RUNAE (IF/IAF)

TO

UDIYO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.04				

<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>
WINDMILL (17-075819)	403927.42N/0884945.76W	1261	250	50	4D	500				AT739	2500
TERRAIN	403333.00N/0885118.00W	807 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

UDIYO

TO

RW20

<u>RNP</u> 0.30	<u>DISTANCE</u> 4.96	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 200	<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				1071

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

UDIYO

TO

RW20

<u>RNP</u> 0.30	<u>DISTANCE</u> 4.96	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 430	<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>
ELEVATOR (17-002444)	403010.66N/0885402.73W	996	20	3	1A		23.81:1			XP13	1301

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP13 TO MAINTAIN CURRENT PUBLISHED MINIMUMS.



FINAL: LNAV

FROM

UDIYO

TO

RW20

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	4.96		RW20		409						
<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	403218.00N/0885306.00W	1011	215	8	4B	250					1280

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

RUNAE

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
		P-5									
<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>
WINDMILL (17-075819)	403927.42N/0884945.76W	1261	250	50	4D	1000				AT239	2500
TERRAIN	403506.00N/0885115.00W	787 (800)								AS1500	2300

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

MCLEN

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 898				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (17-001840)	402503.56N/0885423.44W	1301	50	20	2C	1000					2400
TERRAIN	402518.00N/0885442.00W	918 (900)								AS1500	2400

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

MCLEN

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 1140				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (17-001840)	402503.56N/0885423.44W	1301	50	20	2C	1000					2400
TERRAIN	402518.00N/0885442.00W	918 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW20

TO

MCLEN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
0.30-1.00											1180
<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
TOWER (17-001840)	402503.56N/0885423.44W	1301	50	20	2C	1000					2400
TERRAIN	402518.00N/0885442.00W	918 (900)								AS1500	2400

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

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
CATEGORY A											
BUILDING (17-001155)	402837.91N/0885715.75W	1.30	469	1035	20	20	1C	300			1340
CATEGORY B											
BUILDING (17-001155)	402837.91N/0885715.75W	1.84	469	1035	20	20	1C	300			1340
CATEGORY C											
TOWER (17-001840)	402503.56N/0885423.44W	2.89	749	1301	50	20	2C	300			1620
CATEGORY D											
TOWER (17-001840)	402503.56N/0885423.44W	3.77	749	1301	50	20	2C	300			1620

CIRCLING REMARKS:

MSA

CENTER

RW20

RADIUS

25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (17-001398)	403841.00N/0891047.00W	311	15.7	1787	500	50	5D	1000			2800

MSA REMARKS:

QUALITY
21
CHECKED

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

PIA APP CON, BMI TOWER, ZAU ARTCC

<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>
AWOS-3PT	BMI	24	BMI	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>
ASOS	PIA	24	PIA	37.19	Y	116

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KBMI 871, KPIA 661
RA = 115.3.

<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>
RW02 - MALSR (PCL), HIRL (PCL), C/LINE (PCL), PAPI-4R (PCL)		PIR-F	APPROACH, MIDPOINT, ROLL OUT
RW20 - ALSF-2, C/LINE (PCL), TDZ (PCL), HIRL (PCL)		PIR-F	APPROACH, MIDPOINT, ROLL OUT
RW11 - HIRL (PCL), VASI-4R		PIR-G	ROLL OUT
RW29 - MALSR (PCL), HIRL (PCL)		PIR-G	APPROACH

<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	862.5	58.1				

FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-20C	+54C	-21C	+13.27C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2023).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 966 HIGH TEMP 1275.

"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 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	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	197.93
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.76
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	197.93
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	402905.80N/0885425.86W
ARP COORDINATES	402837.60N/0885457.30W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 11 DISTANCE 0.83 NM
FAF COORDINATES	403349.12N/0885225.79W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (SILVIA YOUNG)	AJV-A432	05/08/2024	AERONAUTICAL INFORMATION SPECIALIST

