

**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> BEH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BENTON HARBOR	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 649	<u>TDZE</u> 631	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 11/07/2019
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 4W
				<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 004/30 CW 184/30	NOPT	ZUYDU	IF/IAF	2500
2. 184/30 CW 274/30		TABGE	IAF	2500
3. 274/30 CW 004/30		TAMPE	IAF	2500

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>
TABGE	IAF	ZUYDU	NOPT	TF	FB	1.00	184.27	6.50	2500
TAMPE	IAF	ZUYDU	NOPT	TF	FB	1.00	004.27	6.50	2500
ZUYDU	IF/IAF	ADIYI		TF	FB	1.00	094.27	6.47	2300
ADIYI	FAF	RW10	MAP	TF	FO	0.30	094.37	5.13	
RW10	MAP	881 MSL		CA			094.37		
881 MSL		GIDPE		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT GIDPE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD W ZUYDU, RT, 094.28 INBOUND, 2500 IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	094.37	FAF:	ADIYI	DIST FAF TO MAP:	5.13	DIST FAF TO THLD:	5.13							
4.	MIN ALT:	ZUYDU 2500, ADIYI 2300													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.67	GS ANT:				
6.	MIN GP INCPT:	2300	GP ALT AT PFAF:	ADIYI 2300					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	40.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°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 LWA ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LWA ALTIMETER SETTING: INCREASE LPV DA TO 917 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1080 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 274.63 INBOUND.
CHART FAS OBST: 786 TREE 420815N/0862721W.
CHART VDP AT 1.18 NM TO RW10.
WAAS CHANNEL # 86912
REFERENCE PATH ID: W10A
LTP HAE: 157.5 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	881	3/4	250	881	3/4	250	881	3/4	250	881	3/4	250			
LNAV/VNAV DA	1040	1 1/8	409	1040	1 1/8	409	1040	1 1/8	409	1040	1 1/8	409			
LNAV MDA	1040	1	409	1040	1	409	1040	1 1/8	409	1040	1 1/8	409			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM PREVIOUS P-NOTAM INTO THE FORM.
2. TAA: UPDATED STRAIGHT-IN SECTOR FROM "024/30 CW 164/30" TO "004/30 CW 184/30"– T CONFIGURATION IAW 8260.58C, 1-3-1 D(1) AND 8260.19J, 8-6-3.
3. TAA: UPDATED LEFT BASE SECTOR FROM "164/30 CW 274/30" TO "184/30 CW 274/30" - T CONFIGURATION IAW 8260.58C, 1-3-1 D(1) AND 8260.19J, 8-6-3.
4. TAA: UPDATED RIGHT BASE SECTOR FROM "274/30 CW 024/30" TO "274/30 CW 004/30" - T CONFIGURATION IAW 8260.58C, 1-3-1 D(1) AND 8260.19J, 8-6-3.
5. TERMINAL ROUTES: UPDATED INITIAL TABGE TO ZUYDU COURSE/DISTANCE FROM "164.23/9.00" TO "184.27/6.50" – T CONFIGURATION IAW 8260.58C, 1-3-1 D(1).
6. TERMINAL ROUTES: UPDATED INITIAL TAMPE TO ZUYDU COURSE/DISTANCE FROM "024.22/9.00" TO "004.27/6.50" - T CONFIGURATION IAW 8260.58C, 1-3-1 D(1).
7. TERMINAL ROUTES: UPDATED INTERMEDIATE ZUYDU TO ADIYI COURSE/DISTANCE FROM "094.28/6.46" TO "094.27/6.47" – FAF MOVED TO ALIGN WITH RECOMMENDED TCH OF 40 IAW 8260.58C TABLE 1-3-1.
8. TERMINAL ROUTES: UPDATED FINAL ADIYI TO RW10 DISTANCE FROM "5.14" TO "5.13" – FAF MOVED TO ALIGN WITH RECOMMENDED TCH OF 40 IAW 8260.58C TABLE 1-3-1.
9. TERMINAL ROUTES: UPDATED "881 MSL TO BLACO" TO "881 MSL TO GIDPE" – NEW MISSED APPROACH INSTRUCTIONS DUE TO ELX VOR MON.
10. TERMINAL ROUTES: REMOVED BLACO TO ELX VOR/DME AND ALL ASSOCIATED DATA – ELX VOR MON.
11. MISSED APPROACH INSTRUCTIONS: UPDATED FROM " CLIMB TO 2500 DIRECT BLACO AND ON TRACK 086.76 TO ELX VOR/DME AND HOLD" TO " CLIMB TO 2500 DIRECT GIDPE AND HOLD" - IAW 8260.19J, 8-6-6 D.
12. PROFILE LINE 2: UPDATED "2500 FT." TO "2500" – IAW 8260.19J, 8-6-7 B(2).
13. PROFILE LINE 3: DIST FAF TO MAP AND DIST FAF TO THLD UPDATED FROM "5.14" TO "5.13" - FAF RELOCATED BASED ON PROPER VDA CALCULATION IAW 8260.19J, 8-6-7 C.
14. PROFILE LINE 5: UPDATED FROM "250 HAT: 0.69" TO "250 HAT: 0.67" – IAW 8260.19J, 8-6-7 E(3).
15. PBN REQUIREMENTS NOTE: REPLACED "RNP APCH" WITH "RNP APCH - GPS" - IAW 8260.19J, 8-6-8 D(5)(A)(1).
16. NOTES: BARO-VNAV AND VDP NOTE MOVED FROM PART C AND UPDATED FROM "SOUTH HAVEN" TO "LWA" – IAW 8260.19J, 8-6-10 E(8) AND (9).
17. NOTES: BACKUP ALTIMETER NOTE MOVED FROM PART C AND UPDATED FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SOUTH HAVEN ALTIMETER SETTING: INCREASE LPV DA TO 919 FEET, LNAV/VNAV DA TO 1108 FEET AND ALL MDAS 40 FEET: INCREASE CIRCLING CAT C VISIBILITY 1/4 SM" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LWA ALTIMETER SETTING: INCREASE LPV DA TO 917 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1076 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM" – IAW 8260.19J, 8-6-10 F(4).
18. ADDITIONAL FLIGHT DATA: HOLDING INSTRUCTIONS UPDATED FROM "HOLD E, LT, 266.00 INBOUND" TO "HOLD E, RT, 274.63 INBOUND" – IAW 8260.19J, 8-6-11 B(1).
19. ADDITIONAL FLIGHT DATA: FAS OBST UPDATED FROM "CHART FAS OBST: 792 ANT TWR 420717N/0862701W" TO " CHART FAS OBST: 786 TREE 420815N/0862721W" - IAW 8260.19J, 8-6-11 C.
20. ADDITIONAL FLIGHT DATA: VDP LOCATION UPDATED FROM "1.37 NM TO RW10*" TO "1.18 NM TO RW10" ASTERISK AND "LNAV ONLY" REMOVED" – IAW 8260.19J, 8-6-11 M AND 8-6-7 D.
21. ADDITIONAL FLIGHT DATA: LTP HAE: UPDATED FROM "157.4 M" TO "157.5 M" – LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+01574" TO "+01575".
22. ADDITIONAL FLIGHT DATA: REMOVED "CHART CIRCLING ICON" - CIRCLING MINS REMOVED ON PREVIOUS AMENDMENT.
23. MINIMUMS: LPV VIS ALL CATS UPDATED FROM "7/8" TO "3/4" – IAW 8260.3G, TABLES 3-3-1, 3-3-3 AND 3-3-4.
24. MINIMUMS: LNAV/VNAV ALL CATS DA/VIS/HAT LOWERED FROM "1071/1 1/2/440" TO "1040/1 1/8/409" – LOWER MINIMUMS APPROVED BY FPT AND OIT AS PERMISSIBLE BASED ON TARGETS AND OEAAA EVAL IAW 8260.19J, 8-6-12.
25. MINIMUMS: LNAV CATS A AND B MDA/HAT LOWERED FROM "1100/469" TO "1040/409" AND CATS C AND D MDA/VIS/HAT LOWERED FROM "1100/1 3/8/469" TO "1040/1 1/8/409" - LOWER MINIMUMS APPROVED BY FPT AND OIT AS PERMISSIBLE BASED ON TARGETS AND OEAAA EVAL IAW 8260.19J, 8-6-12.
26. MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" – IAW 8260.19J 8-6-12.B(4)(MEMO).
27. FAS DATA: CRC CHANGED FROM "6B96D9F4" TO "94623AB8" - LTP/FTP LAT/LONG CHANGED FROM "420740.5175N/ 0862601.8015W" TO "420740.5245N/ 0862601.8060W" – FPAP LAT/LONG CHANGED FROM "420739.8000N/ 0862402.0600W" TO "420739.8055N/ 0862402.0690W– LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM "+01912" TO "+01913".

09/09/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/26/2025.
CORRECTED ALTIMETER SETTING LNAV/VNAV DA TO INCREASE FROM 1076 TO 1080.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZAU, SBN APP CON, AMGR

FLIGHT CHECKED BY

BRIAN P CARSON

Digitally signed by
CASIMIR L TABAKA
Aug 26, 2025

OFFICE

AJF

DATE

08/22/2025

DEVELOPED BY

CASEY HILL (GEORGE H. TYLER)

Digitally signed by
CASIMIR L TABAKA
Aug 26, 2025

OFFICE

AJV-A421

DATE

06/20/2025

APPROVED BY

CASEY HILL

Digitally signed by
CASIMIR L TABAKA
Aug 26, 2025

OFFICE

AJV-A421

DATE

11/27/2025

TITLE

MANAGER



AIRPORT ID
BEH

PROCEDURE NAME
RNAV (GPS) RWY 10

ORIGINAL/AMENDMENT
2

CITY
BENTON HARBOR

STATE
MI

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBEH
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	420740.5245N
LTP/FTP LONGITUDE	0862601.8060W
LTP/FTP ELLIPSOIDAL HEIGHT	+01575
FPAP LATITUDE	420739.8055N
FPAP LONGITUDE	0862402.0690W
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	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	94623AB8
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01913
FPAP ORTHOMETRIC HEIGHT	+01913



**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>
BEH	RNAV (GPS) RWY 10	2	BENTON HARBOR	MI	649	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 004/30 CW 184/30 **TO** ZUYDU

<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 (18-001589)	413834.00N/0864753.00W	1230	500	50	5D	1000				AT270	2500
TERRAIN	413815.00N/0864842.00W	921 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM 184/30 CW 274/30 **TO** TABGE

<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 (26-000890)	420418.80N/0862215.10W	1228	500	50	5D	1000				AT272	2500
TERRAIN	421606.00N/0860145.00W	856 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



RIGHT BASE AREA

FROM

274/30 CW 004/30

TO

TAMPE

<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 (18-001499)	414457.60N/0860710.50W	1300	50	20	2C	1000				AT200	2500
TERRAIN	415945.00N/0860309.00W	961 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

TABGE

TO

ZUYDU

<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>
AAO	421100.00N/0864135.89W	778	215	8	4B	1000				AT722	2500
TERRAIN	421100.00N/0864135.89W	577 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

TAMPE

TO

ZUYDU

<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>
AAO	420603.00N/0863730.00W	781	215	8	4B	1000				AT719	2500
TERRAIN	420424.00N/0863730.00W	580 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

ZUYDU (IF/IAF)

TO

ADIYI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.47										
<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	420730.00N/0863257.00W	781	215	8	4B	500				AT1019	2300
TERRAIN	420545.00N/0863730.00W	580 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

ADIYI

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.13		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 (26-032395)	420737.03N/0862625.79W	672	50	20	2C		34.00:1			AC20	881

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

ADIYI

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.13		DA	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>
TREE	420812.00N/0862736.00W	776	215	8	4B		23.85:1			AC8	1040

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

DA LOWERED TO LNAV MDA IAW 8260.58C 3-3-5

FINAL: LNAV

FROM

ADIYI

TO

RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.13		RW10	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>
TREE	420815.00N/0862721.00W	786	215	8	4B	250					1040

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

ZUYDU

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>
AAO	420336.00N/0863730.00W	781	215	8	4B	1000				AT719	2500
TERRAIN	420336.00N/0863730.00W	580 (600)								AS1500	2100

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

GIDPE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 692				
<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				2500
AAO	420912.00N/0860845.00W	1054	215	8	4B	1000					2100
TERRAIN	420706.00N/0861445.00W	849 (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: LNAV/VNAV

FROM

DA

TO

GIDPE

RNP 0.30-1.00	DISTANCE	PAT	MAP		HAT		HMAS		879		
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
AAO	420912.00N/0860845.00W	1054	215	8	4B	1000					2100
TERRAIN	420706.00N/0861445.00W	849 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LNAV

FROM

RW10

TO

GIDPE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											940
<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				2500
AAO	420912.00N/0860845.00W	1054	215	8	4B	1000					2100
TERRAIN	420706.00N/0861445.00W	849 (800)								AS1500	2300

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

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAU ARTCC, SBN APP CON, LAN FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	BEH	24	BEH		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	LWA	24	LWA	15.11	Y	36

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
BEH 649, LWA 654
RA=35.5

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		BSC-G	
RW32 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		BSC-G	
RW10 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)		PIR-G	
RW28 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)		PIR-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	627.5	40.0			3.00	34.0

FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-20C	+54C	-20C	+13.71C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2017-2021).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 963 HIGH TEMP 1271.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LPV, LNAV/VNAV, LNAV
34:1	
662 VERTICAL_STRUCTURE (26-049335) 420737.51N/0862614.52W (12.28)	
PENETRATIONS REMARKS:	



<u>AIRPORT ID</u> BEH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 2	<u>CITY</u> BENTON HARBOR	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 649	<u>FACILITY</u> RNAV

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.

100 FT VEGETATION USED.

200 FT VESSEL HEIGHT USED.

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	090.37
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	4.93
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	090.37
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD COORDINATES (IF STR-IN)	420740.52N/0862601.81W
ARP COORDINATES	420742.17N/0862529.57W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 28 DISTANCE 0.59 NM
FAF COORDINATES	420742.74N/0863255.15W
FIX NAME COORDINATES	

REMARKS

ZUYDU 420744.93N/0864137.15W (STRAIGHT-IN).
TAMPE 420114.78N/0864139.66W (RIGHT BASE).
TABGE 421415.078N/0864134.64W (LEFT BASE).
RADIUS: 30 NM

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASEY HILL (GEORGE H. TYLER)	AJV-A421	06/20/2025	AERONAUTICAL INFORMATION SPECIALIST

