

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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>	
CVG	RNAV (RNP) Z RWY 36L	1	COVINGTON	KY	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
896	873	RNAV (RNP) Z RWY 36L	03/24/2022	6W	2025
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
RNAV			ROUTINE		

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>
TMORE	IAF	WALVU		TF	FB	1.00	006.17	3.20	6000
WALVU		BRTCL		TF	FB	1.00	006.17	3.20	5000
BRTCL		BEPEE		TF	FB	1.00	006.17	3.14	4000
SPOOD	IAF	SHULN		TF	FB	1.00	338.84	11.87	4600
SHULN		BEPEE		TF	FB	1.00	338.77	4.00	4000
FECTA	IAF	VANDR		TF	FB	1.00	062.87	6.61	6000
DAWGY	IAF	WAMPU		TF	FB	1.00	321.58	8.70	6000
BEPEE	IF	ROPRR	PFAF	TF	FB	1.00	006.17	4.85	2500
RUPPP	IF	TAVOE		TF	FB	1.00	186.48	3.50	5600
TAVOE		SPAIT		RF	FB	1.00	(2.60 NM RADIUS CW (CFFXS))	4.35	4300
SPAIT		RCHRD		RF	FB	1.00	(5.22 NM RADIUS CW (CFFXR))	3.59	3200
RCHRD		ROPRR	PFAF	RF	FB	1.00	(3.20 NM RADIUS CW (CFFXQ))	2.48	2500
BRCAT	IF	OHMAN		TF	FB	1.00	186.78	3.11	5000
OHMAN		PRODD		RF	FB	1.00	(2.80 NM RADIUS CCW (CFFXP))	6.06	3100
PRODD		ROPRR	PFAF	RF	FB	1.00	(1.96 NM RADIUS CCW (CFFXJ))	1.94	2500
VANDR	IF	PRODD		TF	FB	1.00	062.71	9.19	3100
WAMPU	IF	RCHRD		TF	FB	1.00	321.74	8.59	3200
ROPRR	PFAF	RW36L	MAP	TF	FO	0.30	006.17	4.94	
RW36L	MAP	1205 MSL		CA			006.17		
1205 MSL		KRTHY		DF	FB	1.00			
KRTHY		BATHY		TF	FO	1.00	328.75	18.34	3000

QUALITY
29
CHECKED

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT KRTHY AND ON TRACK 328.75 TO BATHY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)			
2.	PROFILE STARTS AT ROPRR								
3.	FAC:	006.17	PFAF:	ROPRR	DIST PFAF TO MAP:		DIST PFAF TO THLD:		
4.	MIN ALT:	ROPRR 2500							
5.	DIST TO THLD FROM PFAF:	4.94	MM:	IM:	150 HAT:	332 HAT:	0.87	GS ANT:	
6.	MIN GP INCPT:	2500	GP ALT AT PFAF:	ROPRR 2500		OM:		MM:	IM:
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR		TCH:	55.0
8.	MSA FROM:	RW36L 3000							

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM OHMAN, PRODD, RCHRD, OR TAVOE: RF.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 54°C.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART SPEED ICON IN PLANVIEW AT TMORE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BEPEE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT RUPPP: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT TAVOE: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT BRCAT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT PRODD: MAX 185 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 340.00 INBOUND.
CHART AT OR ABOVE 7000 AT TMORE.
CHART MANDATORY 8000 AT SPOOD.
CHART MANDATORY 8000 AT FECTA.
CHART MANDATORY 8000 AT DAWGY.
CHART MANDATORY 6000 AT RUPPP.
CHART MANDATORY 6000 AT BRCAT.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.15 DA	1205	2600	332	1205	2600	332	1205	2600	332	1205	2600	332			
RNP 0.30 DA	1270	3500	397	1270	3500	397	1270	3500	397	1270	3500	397			

CHANGES - REASONS

1. TERMINAL ROUTES DELETED FEEDER FROM FLM VDME AND CRITR - PBN AND FPT REQUEST IN COOPERATION WITH ATC TO SUPPORT TRAFFIC FLOW.
2. TERMINAL ROUTES ADDED ENTRIES FROM FECTA, TMORE, RUPPP, BRCAT, SPOOD, AND DAWGY - PBN AND FPT REQUEST IN COOPERATION WITH ATC TO SUPPORT TRAFFIC FLOW.
3. TERMINAL ROUTES BRTCL TO BEPEE CHANGED FROM INITIAL TO STEPDOWN SEGMENT FROM IAF TMORE - PBN AND FPT REQUEST IN COOPERATION WITH ATC TO SUPPORT TRAFFIC FLOW.
4. TERMINAL ROUTES STEPDOWN SEGMENT IN TERMINAL ROUTES FROM BEPEE TO CUTAC TO ROPRR DELETED - CUTAC REMOVED FROM PROCEDURE AND SEGMENT COMBINED INTO INTERMEDIATE SEGMENT FROM BEPEE TO ROPRR.
5. TERMINAL ROUTES FINAL SEGMENT FROM ROPRR TO RW36L DISTANCE CHANGED FROM 4.56 TO 4.94 - ROPRR MOVED.
6. TERMINAL ROUTES MISSED APPROACH TERMINAL ROUTE FROM MAP TO KRTHY CHANGED: LEG TYPE FROM TF TO DF; ADDED CA LEG TO 1205 MSL; DELETED COURSE AND DISTANCE - CURRENT PROCEDURE USES RNAV MISSED WHILE PUBLISHING RNP MISSED DOCUMENTATION (COORDINATED WITH FPT AND ATC).
7. TERMINAL ROUTES KRTHY TO BATHY COURSE AND DISTANCE CHANGED FROM 329.45/18.63 TO 328.75/18.34 - KRTHY MOVED.
8. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 3000 ON TRACK 006.17 TO KRTHY AND TRACK 329.45 TO BATHY AND HOLD" TO "CLIMB TO 3000 DIRECT KRTHY AND ON TRACK 328.75 TO BATHY AND HOLD" - VERBIAGE CHANGED TO SUPPORT RNAV MISSED AND KRTHY MOVED.
9. PROFILE LINE 2 CHANGED FROM "PROFILE STARTS AT BRTCL" TO "PROFILE STARTS AT ROPRR" - COMMON POINT FOR ALL NEWLY ADDED ENTRY SEGMENTS.
10. PROFILE LINE 4 CHANGED FROM "BRTCL 5000, BEPEE 4000, CUTAC 3000, ROPRR 2400" TO "ROPRR 2500" - FAF RAISED.
11. TERMINAL ROUTES FINAL SEGMENT FROM ROPRR TO RW36L DISTANCE CHANGED FROM 4.56 TO 4.94 - ROPRR MOVED AND RAISED.
12. PROFILE LINE 5 CHANGED FROM PFAF: 4.56 TO PFAF: 4.94 AND 391 HAT: 1.06 TO 332 HAT: 0.87 - ROPRR MOVED AND DA LOWERED AFTER ADDING RNP 0.15 MINS.
13. PROFILE LINE 6 MIN GP INCPT CHANGED FROM 2400 TO 2500 - REQUESTED AFTER MOVING ROPRR, FACILITATES 1500 FT AIRSPACE.
14. NOTES DELETED ENTRY NA NOTES FOR ARRIVALS AT FLM VDME - TERMINAL ROUTES REMOVED FROM PROCEDURE.
15. NOTES ADDED PROFILE NOTE "SEE PLANVIEW FOR MULTIPLE IF LOCATIONS" - ADDITIONAL INTERMEDIATE ROUTES ADDED TO PROCEDURE PER 8260.19J 8-6-7
16. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT TMORE: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
17. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT BEPEE: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
18. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT RUPPP: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
19. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT TAVOE: MAX 200 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
20. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT BRCAT: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
21. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT PRODD: MAX 185 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
22. NOTES CHANGED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -17°C OR ABOVE 54°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 54°C" – NEW TEMPERATURE STUDY.
23. ADDITIONAL FLIGHT DATA ADDED "CHART MANDATORY 8000 AT SPOOD" - PBN REQUIRED TO FACILITATE NEW ROUTING.
24. ADDITIONAL FLIGHT DATA ADDED "CHART MANDATORY 8000 AT FECTA" - PBN REQUIRED TO FACILITATE NEW ROUTING.
25. ADDITIONAL FLIGHT DATA ADDED "CHART MANDATORY 8000 AT DAWGY" - PBN REQUIRED TO FACILITATE NEW ROUTING.
26. ADDITIONAL FLIGHT DATA ADDED "CHART MANDATORY 6000 AT BRCAT" - PBN REQUIRED TO FACILITATE NEW ROUTING.
27. ADDITIONAL FLIGHT DATA ADDED "CHART MANDATORY 6000 AT RUPPP" - PBN REQUIRED TO FACILITATE NEW ROUTING.
28. ADDITIONAL FLIGHT DATA ADDED "CHART AT OR ABOVE 7000 AT TMORE" - PBN REQUIRED TO FACILITATE NEW ROUTING.
29. PBN REQUIREMENTS NOTE CHANGED FROM "RNP AR APCH - GPS" TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM OHMAN, PRODD, RCHRD, OR TAVOE: RF." - IAW 8260.19J 8-6-8 & IMPLEMENTATION LETTER.
30. MINIMUMS ADDED RNP 0.15 DA/HAT MINIMUMS - FPT AND PBN REQUEST.
31. MAG VAR CHANGED MAG VAR EPOCH YEAR FROM 2020 TO 2025 - MATCH CURRENT MAG VAR DATA TABLE.
32. MINIMUMS RNP 0.30 DA/HAT CHANGED FROM 1264/391 TO 1270/397 – NEW FINAL CONTROLLING OBSTACLE.

COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

ZID, CVG ATCT, CVG APP CON, AMGR

FLIGHT CHECKED BY

ERIC L GEYER

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJF

DATE

02/26/2025

DEVELOPED BY

CHARLES HIRST

Digitally signed by

CHARLES HIRST

Nov 06, 2024

OFFICE

AJV-A431

DATE

09/25/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJV-A431

DATE

TITLE

MANAGER



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>
CVG	RNAV (RNP) Z RWY 36L	1	COVINGTON	KY	896	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM TO
TMORE WALVU

RNP DISTANCE PAT MAP HAT HMAS
1.00 3.20

<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 (21-001178)	384330.00N/0843829.00W	1201	500	125	5E	1000				AC125 AT3674	6000
TERRAIN	384412.00N/0843915.00W	941 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM TO
WALVU BRTCL

RNP DISTANCE PAT MAP HAT HMAS
1.00 3.20

<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 (21-001781)	384947.00N/0844114.00W	1131	50	20	2C	1000				AC20 AT2849	5000
TERRAIN	384839.00N/0843912.00W	931 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL: STEPDOWN

FROM

BRTCL

TO

BEPEE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.14										
<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 (21-079958)	385205.98N/0844207.72W	1172	250	50	4D	1000				AC50 AT1778	4000
TERRAIN	385124.00N/0843951.00W	921 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

SPOOD

TO

SHULN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	11.87										
<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 (21-022430)	384119.00N/0843507.00W	1437	50	3	2A	1000				AC3 AT2160	4600
TERRAIN	383945.00N/0843445.00W	994 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL: STEPDOWN

FROM

SHULN

TO

BEPEE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.00										
<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 (21-001270)	385158.23N/0843754.80W	1174	500	125	5E	1000				AC125 AT1701	4000
TERRAIN	385124.00N/0843951.00W	921 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

FECTA

TO

VANDR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>				<u>HMAS</u>	
1.00	6.61										
<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 (18-001914)	385107.00N/0845040.00W	1092	500	50	5D	1000				AC50 AT3858	6000
TERRAIN	384915.00N/0845927.00W	892 (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

DAWGY

TO

WAMPU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.70										
<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 (21-001446)	384912.00N/0842854.00W	1076	500	125	5E	1000				AC125 AT3799	6000
TERRAIN	384939.00N/0843203.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

BEPEE

TO

ROPRR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	4.85										
<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 (21-061869)	385602.87N/0844104.46W	1119	250	125	4E	500				AC125	1800
TERRAIN	385606.00N/0843930.00W	951 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

RUPPP

TO

TAVOE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.50										
<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>
TOWER (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT3790	5600
TERRAIN	385809.00N/0843033.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

TAVOE

TO

SPAIT

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.35										
<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 (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT2490	4300
TERRAIN	385318.00N/0843554.00W	961 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

TAVOE-SPAIT

ALT

5600

KIAS

200

KTAS

223.24

HAA

4703.9

VKTW

22.15

TR

2.60

BA

18.63

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXS)/4.35 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

SPAIT

TO

RCHRD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	3.59										
<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 (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	500				AC3 AT1448	3200
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

SPAIT-RCHRD

ALT

4300

KIAS

200

KTAS

218.83

HAA

3403.9

VKTW

17.99

TR

5.22

BA

8.91

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXR)/3.59 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

RCHRD

TO

ROPRR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	2.48										
<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 (21-061869)	385602.87N/0844104.46W	1119	250	125	4E	500				AC125	1800
TERRAIN	385606.00N/0843930.00W	951 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

RCHRD-ROPRR

ALT

3200

KIAS

200

KTAS

215.21

HAA

2303.9

VKTW

35.4

TR

3.20

BA

15.98

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXQ)/2.48 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

BRCAT

TO

OHMAN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.11										
<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 (21-020422)	390026.84N/0844600.35W	1180	50	20	2C	500				AC20 AT3300	5000
TERRAIN	390000.00N/0844654.00W	902 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

OHMAN

TO

PRODD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.06										
<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 (21-061869)	385602.87N/0844104.46W	1119	250	125	4E	500				AC125 AT1356	3100
TERRAIN	385648.00N/0844309.00W	928 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

OHMAN-PRODD

5000

210

232.25

4103.9

46.49

2.80

23.24

0

0

(CFFXP)/6.06 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

PRODD

TO

ROPRR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	1.94				

<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 (21-061869)	385602.87N/0844104.46W	1119	250	125	4E	500				AC125	1800
TERRAIN	385606.00N/0843930.00W	951 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

PRODD-ROPRR

ALT

3100

KIAS

185

KTAS

198.77

HAA

2203.9

VKTW

42.49

TR

1.96

BA

24.17

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXJ)/1.94 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

VANDR

TO

PRODD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	9.19				

<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 (18-000875)	385212.00N/0845100.00W	1212	500	50	5D	500				AC50 AT1338	3100
TERRAIN	385648.00N/0844309.00W	928 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

WAMPU

TO

RCHRD

RNP

1.00

DISTANCE

8.59

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (21-001270)	385158.23N/0843754.80W	1174	500	125	5E	500				AC125 AT1401	3200
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

ROPRR

TO

RW36L

RNP

0.15

DISTANCE

4.94

PAT

MAP

DA

HAT

332

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	390224.00N/0844127.00W	960	215	8	4B		21.44:1			AC8 MA82	1205

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

ROPRR

TO

RW36L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	4.94		DA		397						
<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	390215.00N/0844148.00W	993	215	8	4B		21.41:1			AC8	1270

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BATHY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.15-1.00							1044				
<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	390300.00N/0844127.00W	1028	215	8	4B		ASC			AC8	3000
TOWER (18-082334)	392422.45N/0845232.31W	1313	20	3	1A	1000				SA-31	2300
TERRAIN	392112.00N/0845418.00W	1046 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BATHY

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1109				
<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 (18-082334)	392422.45N/0845232.31W	1313	20	3	1A	1000				SA-31	2300
TERRAIN	392112.00N/0845418.00W	1046 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MSA

CENTER

RW36L

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-001241)	393044.00N/0843809.00W	011	27.9	1902	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> CVG	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> CVG	<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:

NO BACK-UP ALTIMETER SOURCE NEEDED. 24-HR CONTROL TOWER HAS REDUNDANT ALTIMETER REPORTING EQUIPMENT.

<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>
RW09 - MALSR, C/LINE, HIRL, TDZ, PAPI-4L		PIR-G	APPROACH
RW18L - MALSR, TDZ, C/LINE, HIRL, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW18C - MALSR, HIRL, C/LINE, TDZ, PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW18R - ALSF-2, TDZ, HIRL, C/LINE		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW27 - MALSR, C/LINE, HIRL, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36L - ALSF-2, C/LINE, TDZ, HIRL		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36C - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36R - ALSF-2, C/LINE, TDZ, HIRL, PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 872.6	<u>TCH</u> 55.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -14C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -14C	<u>APT ISA</u> +13.23C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2023).
CRITICAL LOW TEMPERATURE BASED ON ACT.
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.
VDP NOT ESTABLISHED - RNP APPROACH.
100 FT VEGETATION USED PER FPT.

APPROVAL LETTERS (2):
KCVG RNAV RNP Z RWY 36L: BRCAT MANDATORY ALTITUDE
KCVG RNAV RNP Z RWY 36L: RUPPP MANDATORY ALTITUDE
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	3.05
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	000.17
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.62
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	000.17
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	390256.10N/0844101.76W
ARP COORDINATES	390255.82N/0844004.16W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36R DISTANCE 1.57 NM
FAF COORDINATES	385759.58N/0844102.89W
FIX NAME COORDINATES	

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CHARLES HIRST	AJV-A431	09/25/2024	AERONAUTICAL INFORMATION SPECIALIST