

**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.

AIRPORT ID BLI	PROCEDURE NAME RNAV (RNP) Z RWY 34	ORIGINAL/AMENDMENT 2	CITY BELLINGHAM	STATE WA
AIRPORT ELEVATION 171	TDZE 171	SUPERSEDED RNAV (RNP) Z RWY 34	DATED 05/19/2022	MAG VAR 16E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2020
				CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZEJYA	IAF	PAGMY		TF	FB	1.00	109.79	3.34	2000
TUBTY	IAF	OHADO		TF	FB	1.00	343.86	6.60	2200
PAGMY	IF	ISUWU		TF	FB	0.50	109.84	3.34	1900
ISUWU		UPEKE		RF	FB	0.40	(2.29 NM RADIUS CCW (CFFVN))	5.03	1300
OHADO	IF	UPEKE		TF	FB	0.50	343.84	2.83	1300
UPEKE	PFAF	RW34	MAP	TF	FO	0.30	343.84	3.39	
RW34	MAP	700 MSL		CA			343.84		700
700 MSL		SQURL		DF	FO	1.00			3000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 DIRECT SQURL AND HOLD, CONTINUE TO CLIMB IN HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT UPEKE
- FAC:** 343.84 PFAF: UPEKE DIST FAF TO MAP: DIST FAF TO THLD:
- MIN ALT:** UPEKE 1300
- DIST TO THLD FROM PFAF:** 3.39 **MM:** **IM:** 150 **HAT:** 273 **HAT:** 0.70 **GS ANT:**
- MIN GP INCPT:** 1300 **GP ALT AT PFAF:** UPEKE 1300 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 50.0
- MSA FROM:** RW34 12000



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. FROM PAGMY, OHADO: MIN RNP 0.50. AUTHORIZATION REQUIRED. FROM ISUWU: RF, MIN RNP 0.40.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -10°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART AT OR ABOVE 4000 AT TUBTY.
CHART PLANVIEW NOTE AT TUBTY: (RNP 0.50)
CHART PLANVIEW NOTE AT ZEJYA: (RNP 0.40)
CHART PLANVIEW NOTE AT ISUWU: DO NOT EXCEED 210 KIAS UNTIL UPEKE.

CHART SPEED ICON IN PLANVIEW AT TUBTY: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT OHADO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 050.00 INBOUND.

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 0.11 DA	444	7/8	273	444	7/8	273	444	7/8	273	444	7/8	273			
RNP 0.30 DA	577	1 1/8	406	577	1 1/8	406	577	1 1/8	406	577	1 1/8	406			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED IWANY TO TUBTY SEGMENT – ATC REQUEST.
2. TERMINAL ROUTES: ADDED PAGMY WP BETWEEN ZENJYA AND ISUWU, TERMINAL ROUTES COMPLETELY RE-DESIGNED – PER CURRENT CRITERIA.
3. MISSED APPROACH INSTRUCTIONS: CHANGED FROM “CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 DIRECT WHATCOM VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000” TO “CLIMB TO 700 THEN CLIMBING LEFT TURN TO 3000 DIRECT SQURL AND HOLD, CONTINUE TO CLIMB IN HOLD TO 3000” – PER HUH VOR MON.
4. PROFILE LINE 2: CHANGED FAC FROM “343.85” TO “343.84” – REDESIGNED IAW 8260.58C.
5. PROFILE LINE 5: CHANGED “DIST TO THLD FROM OM” TO “DIST TO THLD FROM PFAF”, CHANGED “292 HAT: 0.76” TO 273 HAT: 0.70”– CURRENT DOCUMENTATION STANDARDS, NEW OBSTACLE EVALUATION.
6. NOTES: ADDED “CHART AT OR ABOVE 4000 AT TUBTY” – FIX CONNECTED TO ENROUTE STRUCTURE.
7. NOTES: CHANGED “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -7°C OR ABOVE 54°C” TO “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -10°C OR ABOVE 54°C” NEW CRITICAL TEMPERATURE INCORPORATED.
8. NOTES: REMOVED “CHART PLANVIEW NOTE AT IWANY: (RNP 0.50)” – FIX REMOVED FROM PROCEDURE PER ATC REQUEST.
9. ADDED “CHART PLANVIEW NOTE AT TUBTY: (RNP 0.50)” - PROCEDURE RE-DESIGNED IAW 8260.58C.
10. NOTES: CHANGED “CHART PLANVIEW NOTE AT ZEJYA: (RNP 0.30)” TO “CHART PLANVIEW NOTE AT ZEJYA: (RNP 0.40)” – PROCEDURE RE-DESIGNED IAW 8260.58C.
11. NOTES: CHANGED “CHART PLANVIEW NOTE AT ISUWU: DO NOT EXCEED 180 KIAS UNTIL UPEKE” TO “CHART PLANVIEW NOTE AT ISUWU: DO NOT EXCEED 210 KIAS UNTIL UPEKE” – PROCEDURE REDESIGNED PER ATC REQUEST.
12. NOTES: ADDED “CHART SPEED ICON IN PLANVIEW AT TUBTY: MAX 210 KIAS, CHART SPEED ICON IN PLANVIEW AT OHADO: MAX 210 KIAS” – PROCEDURE REDESIGNED PER ATC REQUEST.
13. NOTES: REMOVED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IWANY ON V23 SOUTHBOUND” – FIX REMOVED FROM PROCEDURE.
14. ADDITIONAL FLIGHT DATA: CHANGED “HOLD NW, RT, 149.00 INBOUND” TO “HOLD SW, RT, 050.00 INBOUND” - TERMINATION FIX CHANGED TO SQURL.
15. ALTERNATE: REMOVED “NA WHEN LOCAL WEATHER NOT AVAILABLE” – NOT REQUIRED FOR RNP APPROACH.
16. MINIMUMS: LOWERED RNP 0.11 DA/HAT FROM “463/292” TO “444/273” – NEW OBSTACLE EVALUATION.
17. MINIMUMS: LOWERED RNP 0.30 DA/HAT AND VISIBILITY FROM “578/407/1 38 SM” TO “577/406/1 1/8 SM” – NEW OBSTACLE EVALUATION.

10/2/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/30/25.

1. PBN REQUIREMENTS NOTE: CHANGED FROM "RNP AR APCH - GPS." TO "RNP AR APCH - GPS. FROM PAGMY, OHADO: MIN RNP 0.50. AUTHORIZATION REQUIRED. FROM ISUWU: RF, MIN RNP 0.40."

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: YYJ APP CON, ZSE, BLI ATCT, AMGR, WFPT

FLIGHT CHECKED BY

CHRISTOPHER ROY VANDEVEER

Digitally signed by
CASIMIR L TABAKA
Oct 02, 2025

OFFICE

FIOG

DATE

07/23/2025

DEVELOPED BY

CASIMIR L. TABAKA (ROBERT A. SWINSON)

Digitally signed by
JACOB H CLARK
Oct 02, 2025

OFFICE

AJV-A432

DATE

05/30/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Oct 02, 2025

OFFICE

AJV-A432

DATE

10/23/2025

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>
BLI	RNAV (RNP) Z RWY 34	2	BELLINGHAM	WA	171	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM ZEJYA **TO** PAGMY

RNP DISTANCE PAT MAP HAT HMAS

1.00 3.34

<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	484409.00N/1224236.00W	558	215	8	4B	1000				AC8 AT434	2000
TERRAIN	484409.00N/1224236.00W	357 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM TUBTY **TO** OHADO

RNP DISTANCE PAT MAP HAT HMAS

1.00 6.60

<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	484136.00N/1222912.00W	949	215	8	4B	1000				AC8 PR100 AT143	2200
TERRAIN	483921.00N/1222915.00W	606 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
BLI

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RNAV (RNP) Z RWY 34

AMDT NO.
2

CITY
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STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

INTERMEDIATE

FROM PAGMY **TO** ISUWU

RNP 0.50 **DISTANCE** 3.34 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	484115.00N/1223918.00W	1027	215	8	4B	500				AC8 AT365	1900
TERRAIN	484118.00N/1223918.00W	823 (800)								AS1000	1800

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM ISUWU **TO** UPEKE

RNP 0.40 **DISTANCE** 5.03 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	484124.00N/1223900.00W	578	215	8	4B	500				AC8 AT214	1300
TERRAIN	484212.00N/1223636.00W	206 (200)								AS1000	1200

COMPUTATIONS

RF SEGMENT **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**
ISUWU-UPEKE 2559 210 223.79 2387.70 40.60 2.29 24.01 0.00 0.00 (CFFVN)/5.03 NM

SEGMENT REMARKS:



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AMDT NO.
2

CITY
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STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

INTERMEDIATE

FROM
OHADO

TO
UPEKE

RNP
0.50

DISTANCE
2.83

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	484139.00N/1223042.00W	417	215	8	4B	500				AC8 AT375	1300
TERRAIN	484242.00N/1223045.00W	200 (200)								AS1000	1200

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL

FROM
UPEKE

TO
RW34

RNP
0.30

DISTANCE
3.39

PAT

MAP
DA

HAT
406

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
STACK (53-000264)	484607.00N/1223127.00W	310	20	3	1A		21.14:1			AC3	577

COMPUTATIONS

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

SEGMENT REMARKS:



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AMDT NO.
2

CITY
BELLINGHAM

STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

FINAL

FROM
UPEKE

TO
RW34

RNP
0.11

DISTANCE
3.39

PAT

MAP
DA

HAT
273

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			MA23	444

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
SQURL

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
416

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
AAO	485200.00N/1223615.00W	453	215	8	4B	1000					1500
TERRAIN	485200.00N/1223615.00W	252 (300)								AS1500	1800

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
BLI

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RNAV (RNP) Z RWY 34

AMDT NO.
2

CITY
BELLINGHAM

STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW34 - HIRL (PCL), REIL (PCL), PAPI-4L	NPI-G	ROLL OUT
RW16 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	APPROACH

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
171.0

TCH
50.0

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
50.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-10C

CRITICAL HIGH

+54C

ACT

-10C

APT ISA

+14.66C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 957 HIGH TEMP 1262.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	RNP
34:1	
207 TREE (53-023825) 484649.50N/1223214.04W (8.69)	215 TREE (53-077639) 484645.89N/1223209.80W (5.91)
210 TREE (53-077595) 484647.13N/1223212.22W (4.62)	198 GENERAL_UTILITY (53-077502) 484650.73N/1223214.24W (3.36)
198 GENERAL_UTILITY (53-077622) 484650.72N/1223215.53W (3.34)	210 TREE (53-077232) 484646.62N/1223213.81W (3.11)
219 TREE (53-077716) 484643.04N/1223210.22W (1.42)	206 TREE (53-023857) 484647.12N/1223210.37W (0.58)
219 TREE (53-077302) 484642.62N/1223212.28W (0.18)	

PENETRATIONS REMARKS:



AIRPORT ID
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AIRPORT ELEVATION
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FACILITY
RNAV

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 APCH.

40 FT VEGETATION USED PER FPT.



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STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

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	4.19
WIDTH OF	INTERMEDIATE	SEGMENT AT 1000FT POINT	2.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	359.85
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	6.19
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	359.85
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN) 484700.63N/1223214.93W
ARP COORDINATES 484733.70N/1223215.10W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 34 DISTANCE 0.55 NM
FAF COORDINATES 484337.49N/1223214.08W
FIX NAME COORDINATES IF OHADO 484048.06N/1223213.38W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	FAF	TO 1000FT POINT	0.83
WIDTH OF	INTERMEDIATE	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	*
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	FAF	TO 1500FT POINT	5.07
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	*
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN) 484700.63N/1223214.93W
ARP COORDINATES 484733.70N/1223215.10W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 34 DISTANCE 0.55 NM
FAF COORDINATES 484337.49N/1223214.08W
FIX NAME COORDINATES IF ISUWU 484145.99N/1223742.86W

REMARKS

*STARTING AT FAF, 2.30 NM RADIUS FROM (CFFVN) 484338.60N/1223542.57W TURNING WESTBOUND.

PART E: PREPARED BY

NAME
CASIMIR L. TABAKA (ROBERT A. SWINSON)

OFFICE
AJV-A432

DATE
05/30/2025

TITLE
AERONAUTICAL INFORMATION SPECIALIST

