

**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>		
DEN	RNAV (RNP) Z RWY 34R	1	DENVER	CO		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
5434	5354	RNAV (RNP) Z RWY 34R	ORIG-C	02/01/2018	8E	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		19 MARCH 2026	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>
BFREE	IAF	BOOBU		TF	FB	1.00	352.50	2.64	10000
HIMOM	IF	MCMUL		TF	FB	1.00	173.17	3.00	10000
MCMUL		KUGLN		RF	FB	1.00	(2.73 NM RADIUS CCW (CFFNL))	4.30	8700
KUGLN		BSAYN		RF	FB	1.00	(2.89 NM RADIUS CCW (CFFNK))	4.57	7700
BOOBU	IF	BENGL		TF	FB	1.00	352.51	3.24	10000
BENGL		BOENG		TF	FB	1.00	352.51	4.73	9000
BOENG		BSAYN		TF	FB	1.00	352.51	4.38	7700
BSAYN		CORDE		TF	FB	1.00	352.51	2.48	7000
CORDE	PFAF	RW34R	MAP	TF	FO	0.30	352.51	5.00	
RW34R	MAP	PIPSY		TF	FB	1.00	352.51	4.79	
PIPSY		NIWOT		TF	FO	1.00	315.01	23.54	10000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 10000 ON TRACK 352.51 TO PIPSY AND ON TRACK 315.01 TO NIWOT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
34
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT BSAYN														
3.	FAC:	352.51	FAF:	CORDE	DIST FAF TO MAP:	DIST FAF TO THLD:									
4.	MIN ALT:	BSAYN 7700, CORDE 7000													
5.	DIST TO THLD FROM PFAF:	5.00	MM:	IM:	150 HAT:	389 HAT:	1.05	GS ANT:							
6.	MIN GP INCPT:	7000	GP ALT AT PFAF:	CORDE 7000	OM:	MM:	IM:								
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.0							
8.	MSA FROM:	RW34R 10100													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM MCMUL OR KUGLN: RF.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -26°C OR ABOVE 54°C.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.20 ALL CATS VISIBILITY TO 1 3/8 SM AND RNP 0.30 ALL CATS VISIBILITY TO 1 3/4 SM

CHART SPEED ICON IN PLANVIEW AT BFREE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT HIMOM: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BOOBU: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 314.00 INBOUND.
CHART MANDATORY 10000 AT BFREE.
CHART MANDATORY 11000 AT HIMOM.

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 0.10 DA	5743	3500	389	5743	3500	389	5743	3500	389	5743	3500	389			
RNP 0.20 DA	5850	5000	496	5850	5000	496	5850	5000	496	5850	5000	496			
RNP 0.30 DA	5980	1 3/8	626	5980	1 3/8	626	5980	1 3/8	626	5980	1 3/8	626			



CHANGES - REASONS

1. TERMINAL ROUTES ADDED SEGMENT BFREE TO BOOBU - ATC REQUEST MIRROR ILS.
2. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 6000 THEN CLIMBING LEFT TURN TO 10000 DIRECT HYGEN AND HOLD TO CLIMB TO 10000 DIRECT PIPSY AND ON TRACK 307.84 TO OBOONE AND ON TRACK 004.05 TO LPORT AND HOLD - ATC REQUEST NEW MISSED APPROACH.
3. PROFILE LINE 3 REMOVED DIST FAF TO MAP 4.98 - NA FOR RNP PROCEDURE.
4. PROFILE LINE 5 CHANGED FROM DIST TO THLD FROM OM 4.98 TO DIST FROM THLD TO PFAF TO 5.00 - MOVED PFAF DUE TO NEW TCH.
5. PROFILE LINE 7 CHANGED TCH FROM #58.5 TO TCH 55.0 - UPDATED TCH TO DESIGN TCH.
6. PROFILE LINE 8 MSA CHANGED FROM RW34R 10300 TO RW34R 10100 - NEW CONTROLLING OBSTACLE.
7. PBN REQUIREMENTS: ADDED "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM MCMUL: RF", REMOVED "CHART NOTE: GPS REQUIRED" – IAW 8260.19J, 8-6-8(5)A(1).
8. NOTES UPDATED CHART NOTE FROM CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19J 8-6-7 M1.
9. CHART NOTE UPDATED FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (:13F) OR ABOVE 46C (114F) TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26°C OR ABOVE 54°C - UPDATED HISTORICAL TEMP DATA.
10. ADDITIONAL FLIGHT DATA NOTE REMOVED #TCH 5412.2 MSL (DO NOT CHART), AND ROUTE TYPE: A,H, ROUTE TYPE QUALIFIER1: F, ROUTE TYPE QUALIFIER2: S - NO LONGER REQUIRED.
11. ADDITIONAL FLIGHT DATA CHANGED FROM HOLD SE, RT, 309.00 INBOUND TO, AND HOLD N, LT, 183.26 INBOUND - NEW MISSED APPROACH ATC REQUEST.
12. ADDITIONAL FLIGHT DATA REMOVED CHART FAS OBST: 5430 CRANE 395115N/1044100W, CHART FAS OBST: 5473 TOWER 395104N11044057W, CHART FAS OBST: 5660 ANTENNA 395107N/1044028W - NO LONGER REQUIRED.
13. ADDITIONAL FLIGHT DATA REMOVED CHART PLANVIEW NOTE: RADAR REQUIRED - NO LONGER REQUIRED.
14. MINIMUMS CHANGED RNP 0.10 DA FROM 5739/4000 ALL CATS TO 5743/3500 ALL CATS - NEW CONTROLLING OBSTACLE.
15. MINIMUMS RNP 0.20 DA CHANGED FROM 5849/6000 ALL CATS TO 5850/5000 ALL CATS - NEW CONTROLLING OBSTACLE.
16. MINIMUMS RNP 0.30 DA CHANGED FROM 1 5/8 TO 1 3/8 ALL CATS - NEW VIS TABLE.

10/08/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/17/25.

1. UPDATED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 10000 DIRECT PIPSY AND ON TRACK 307.84 TO OBOONE AND ON TRACK 004.05 TO LPORT AND HOLD TO CLIMB TO 10000 ON TRACK 352.51 TO PIPSY AND ON TRACK 315.01 TO NIWOT AND HOLD.

2. PROFILE LINE 7 ADDED 34:1 IS CLEAR AND 20:1 IS CLEAR.

3. ADDED CHART SPEED ICON IN PLANVIEW AT BOOBU: MAX 210 KIAS

4. PROFILE LINE 5 CHANGED 390 HAT TO 389 HAT.

5. CHANGED PBN REQUIREMENTS NOTE FROM "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM MCMUL: RF" TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM MCMUL OR KUGLN: RF."

COORDINATED WITH:

A4A

☐

ALPA

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AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ATA

FLIGHT CHECKED BY

NATHAN J CHOTT

Digitally signed by

ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJF

DATE

12/16/2025

DEVELOPED BY

JOSHUA DUGAN

Digitally signed by

ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJV-A433

DATE

07/17/2025

APPROVED BY

ROBERT G HAMILTON

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ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJV-A433

DATE

02/12/2026

TITLE

MANAGER

