

**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 16R	3	DENVER	CO	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
5434	5326	RNAV (RNP) Z RWY 16R	03/19/2026	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			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>
TSHNR	IAF	PECIY		TF	FB	1.00	153.97	4.46	11500
KIPPR	IAF	HAYLY		TF	FB	1.00	248.52	4.63	12000
HAYLY		PECIY		TF	FB	1.00	214.81	3.79	11500
PECIY		BUDUJ		TF	FB	1.00	169.60	2.36	10600
BUDUJ		ZOREG		TF	FB	1.00	169.60	2.41	10000
KAILE	IAF	OGINE		TF	FB	1.00	116.15	1.90	10400
OGINE		ZOREG		TF	FB	1.00	150.18	2.58	10000
ZOREG		HAROS		TF	FB	1.00	169.60	2.65	10000
HAROS	IF	BRDOR		TF	FB	1.00	169.44	3.96	9000
BRDOR		FESKA		TF	FB	1.00	169.71	3.74	7000
CLFFF	IF	JOEZZ		TF	FB	1.00	348.95	7.54	9200
JOEZZ		LEGIY		RF	FB	1.00	(3.19 NM RADIUS CW (CFLKC))	6.60	7800
LEGIY		GSHEN		RF	FB	1.00	(3.19 NM RADIUS CW (CFLKC))	2.96	7000
GSHEN		FESKA		TF	FB	1.00	160.91	1.69	7000
FESKA		APASE		TF	FB	1.00	169.51	3.15	7000
APASE	PFAF	UJNOR	MAP	TF	FO	0.30	169.51	5.10	
UJNOR	MAP	5900 MSL		CA			169.51		5900
5900 MSL		CANRO		DF	FB	1.00			
CANRO		ZOOKS		TF	FO	1.00	224.38	11.83	10000

QUALITY
37
CHECKED

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CANRO AND ON TRACK 224.38 TO ZOOKS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT FESKA					
3.	FAC: 169.51	PFAF: APASE	DIST FAF TO MAP:		DIST FAF TO THLD:	
4.	MIN ALT: FESKA 7000, APASE 7000					
5.	DIST TO THLD FROM PFAF: 5.10	MM:	IM:	150 HAT:	272 HAT: 0.69	GS ANT:
6.	MIN GP INCPT: 7000	GP ALT AT PFAF: APASE 7000		OM:	MM:	IM:
7.	GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 55.1		
8.	MSA FROM: UJNOR 10200					

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM JOEZZ OR LEGIY: 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 PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 4500.
CHART SPEED ICON IN PLANVIEW AT TSHNR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KIPPR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KAILE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT HAROS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CLFFF: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT GSHEN: MAX 170 KIAS.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 3.00 DEGREES.
HOLD NE, RT, 229.00 INBOUND.
CHART MANDATORY 13000 AT TSHNR.
CHART MANDATORY 12000 AT KIPPR.
CHART MANDATORY 11000 AT KAILE.
CHART MANDATORY 11000 AT CLFFF.
CHART MANDATORY 7000 AT GSHEN.
CHART MANDATORY 7000 AT FESKA.
FAC CROSSES RWY C/L EXTENDED 2600 FT FROM THLD.



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 0.30 DA	5598	2400	272	5598	2400	272	5598	2400	272	5598	2400	272			



<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED BRDOR TO FESKA ALTITUDE FROM 8000 TO 7000 - PER ATC REQUEST.
2. TERMINAL ROUTES: CHANGED CLIFF TO JOEZZ SEGMENT COURSE FROM 352.54 TO 348.95, DISTANCE FROM 3.40 TO 7.54 AND ALTITUDE FROM 10000 TO 9200 - SEGMENT REDESIGNED PER ATC REQUEST.
3. TERMINAL ROUTES: ADDED JOEZZ TO LEGIY TO GSHEN TO FESKA TO APASE SEGMENTS TO CLIFF TRANSITION - PER ATC REQUEST.
4. PROFILE LINE 2: CHANGED FROM "PROFILE STARTS AT APASE" TO "PROFILE STARTS AT FESKA" - PER 8260.19K, PARA 8-6-7B(3)(A).
5. PROFILE LINE 4: CHANGED FROM "APASE 7000" TO "FESKA 7000, APASE 7000" - PER 8260.19K, PARA 8-6-7D.
6. PBN REQUIREMENTS NOTE: CHANGED FROM "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM CLFFF: RF" TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM JOEZZ OR LEGIY: RF" - PER 8260.19K, 8-6-8D(3)(B).
7. ADDED "CHART SPEED ICON IN PLANVIEW AT GSHEN: MAX 170 KIAS" - PER ATC REQUEST TO ENSURE AIRCRAFT DO NOT OVERSHOOT THE TURN AND ENCROACH INTO RWY 16L FINAL.
8. ADDITIONAL FLIGHT DATA: ADDED "CHART MANDATORY 7000 AT GSHEN" AND "CHART MANDATORY 7000 AT FESKA" - PER ATC REQUEST.
9. ADDITIONAL FLIGHT DATA: ADDED "FAC CROSSES RWY C/L EXTENDED 2600 FT FROM THLD" - 8260.19K 8-6-11.G(2).

COORDINATED WITH:

A4A☒

ALPA☒

AOPA☒

APA☒

HAI☐

NBAA☒

OTHER: ZDV, DEN APP CON, DEN ATCT, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

BYRON STUBBLEFIELD

OFFICE

DATE

AJV-A431

08/17/2026

APPROVED BY

CASEY HILL

OFFICE

DATE

TITLE

AJV-A431

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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL
FROM
TSHNR

TO
PECIY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 4.46

<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	401618.00N/1044130.00W	5138	215	8	4B	1000				AC8 AT5354	11500
TERRAIN	401727.00N/1044039.00W	4895 (4900)								AS1500	6400

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL
FROM
KIPPR

TO
HAYLY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 4.63

<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	401936.00N/1043542.00W	5073	215	8	4B	1000				AC8 AT5919	12000
TERRAIN	401933.00N/1043542.00W	4872 (4900)								AS1500	6400

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
37
CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INITIAL
FROM
HAYLY

TO
PECIY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	3.79				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	401542.00N/1044148.00W	5194	215	8	4B	1000				AC8 AT5298	11500
TERRAIN	401654.00N/1044042.00W	4927 (4900)								AS1500	6400

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL STEPDOWN
FROM
PECIY

TO
BUDUJ

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	2.36				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (08-000570)	401540.90N/1044222.80W	5275	500	50	5D	1000				AC50 AT4275	10600
TERRAIN	401448.00N/1044233.00W	5026 (5000)								AS1500	6500

COMPUTATIONS

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

SEGMENT REMARKS:



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INITIAL STEPDOWN
FROM
BUDUJ

TO
ZOREG

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
1.00	2.41										
<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 (08-000570)	401540.90N/1044222.80W	5275	500	50	5D	1000				AC50 AT3675	10000
TERRAIN	401254.00N/1044333.00W	5072 (5100)								AS1500	6600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL
FROM
KAILE

TO
OGINE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	1.90										
<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 (08-000570)	401540.90N/1044222.80W	5275	500	50	5D	1000				AT4075 AC50	10400
TERRAIN	401409.00N/1044506.00W	4947 (4900)								AS1500	6400

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INITIAL STEPDOWN

FROM

OGINE

TO

ZOREG

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	2.58				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (08-000570)	401540.90N/1044222.80W	5275	500	50	5D	1000				AC50 AT3675	10000
TERRAIN	401254.00N/1044333.00W	5072 (5100)								AS1500	6600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL STEPDOWN

FROM

ZOREG

TO

HAROS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	2.65				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	401015.00N/1044418.00W	5292	215	8	4B	1000				AC8 AT3700	10000
TERRAIN	401015.00N/1044427.00W	5091 (5100)								AS1500	6600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INTERMEDIATE
FROM
HAROS

TO
BRDOR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.96				

<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	400733.00N/1044445.00W	5391	215	8	4B	500				AC8 AT3101	9000
TERRAIN	400730.00N/1044445.00W	5190 (5200)								AS1500	6700

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN
FROM
BRDOR

TO
FESKA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.74				

<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 (08-000787)	400319.72N/1044448.77W	5570	250	50	4D	500				AC50 AT880	7000
TERRAIN	400324.00N/1044454.00W	5160 (5200)								AS1500	6700

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INTERMEDIATE

FROM

CLFFF

TO

JOEZZ

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	7.54				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	395706.00N/1045300.00W	5407	215	8	4B	500				AC8 AT3285	9200
TERRAIN	395706.00N/1045300.00W	5206 (5200)								AS1500	6700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

JOEZZ

TO

LEGIY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	6.60				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	400730.00N/1044445.00W	5391	215	8	4B	500				AC8 AT1901	7800
TERRAIN	400730.00N/1044445.00W	5190 (5200)								AS1500	6700

COMPUTATIONS

RF SEGMENT

JOEZZ-LEGIY

ALT

10602

KIAS

210

KTAS

253.53

HAA

5168.51

VKTW

33.77

TR

3.19

BA

20.68

DTA

0.00

COURSE CHANGE

0.00

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFLKC)/6.6 NM

SEGMENT REMARKS:



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INTERMEDIATE STEPDOWN

FROM
LEGIY

TO
GSHEN

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	2.96				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (08-000787)	400319.72N/1044448.77W	5570	250	50	4D	500				AC50 AT880	7000
TERRAIN	400324.00N/1044503.00W	5190 (5200)								AS1500	6700

COMPUTATIONS

RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
LEGIY-GSHEN	8952	210	246.97	3517.85	31.81	3.19	19.57	0.00	0.00			(CFLKC)/2.96 NM

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM
GSHEN

TO
FESKA

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	1.69				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (08-000787)	400319.72N/1044448.77W	5570	250	50	4D	500				AC50 AT880	7000
TERRAIN	400242.00N/1044503.00W	5157 (5200)								AS1500	6700

COMPUTATIONS

TF TURN FIX	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
GSHEN-FESKA												

SEGMENT REMARKS:



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

INTERMEDIATE STEPDOWN
FROM
FESKA

TO
APASE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	3.15										
<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	395754.00N/1043942.00W	5447	215	8	4B	500				AC8 AT1045	7000
TERRAIN	395900.00N/1043927.00W	5196 (5200)								AS1500	6700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL
FROM
APASE

TO
UJNOR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	5.10		DA				272				
<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			VEB22	5598

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

ZOOKS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30-1.00					5437

<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				10000
AAO	394054.00N/1050736.00W	5991	215	8	4B	1000				SA-8	7000
TERRAIN	394118.00N/1050651.00W	5662 (5700)								AS1500	7200

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

CENTER

UJNOR

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	AAO	395330.00N/1051851.00W	262	28.5	9128	215	8	4B	1000			10200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

50 FT VEGETATION APPLIED PER FPT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

DEN APP CON, DEN TOWER, ZDV ARTCC

<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	DEN	24	DEN		Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
 NO BACKUP ALTIMETER SETTING REQUIRED. REDUNDANT SOURCES ON AIRPORT.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW07 - MALSR, C/LINE, HIRL, TDZ, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW08 - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW16L - MALSR, C/LINE, TDZ, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW16R - MALSR, TDZ, C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW17L - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW17R - MALSR, C/LINE, TDZ, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW25 - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW26 - MALSR, TDZ, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW34L - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW34R - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW35L - ALSF-2, TDZ, C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW35R - ALSF-2, TDZ, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<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	5321.8	55.1			3.00	71.2

<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	☐	2600 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>
-26C	+54C	-26C	+4.24C

CRITICAL TEMPERATURE REMARKS:
 AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
 CRITICAL LOW TEMPERATURE BASED ON ACT.



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	RNAV

DESCENT RATE (FPM): STANDARD TEMP 1030 HIGH TEMP 1359.

"VISUAL PORTION OF FINAL" PENETRATIONS

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.
VDP NOT ESTABLISHED - RNP PROCEDURE.
WAIVER FOR INITIAL SEGMENT KAILE-OGINE: LEG LENGTH TOO SHORT FOR ATC VECTORING.

WAIVER FOR 170 KIAS AT ZITNO: ENSURES AIRCRAFT DO NOT OVERSHOOT THE TURN AND ENCROACH INTO RWY 16L FINAL.

WAIVER FOR IF SDF JOEZZ TO LEGIY: NOT WITHIN 15 NM OF THE ARP COORDINATES.

APPROVAL LETTER: MANDATORY ALTITUDE AT IF CLFFF.



<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>
DEN	RNAV (RNP) Z RWY 16R	3	DENVER	CO	5434	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	3.21
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	177.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	5400
DISTANCE FROM	THLD	TO 1500FT POINT	4.78
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	177.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	5400

THRESHOLD COORDINATES (IF STR-IN)	395344.87N/1044145.90W
ARP COORDINATES	395142.00N/1044023.40W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 7 DISTANCE 2.77 NM
FAF COORDINATES	395850.58N/1044201.43W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY			
<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
BYRON STUBBLEFIELD	AJV-A431	08/17/2026	AERONAUTICAL INFORMATION SPECIALIST

