

**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.

AIRPORT ID RNO	PROCEDURE NAME RNAV (GPS) X RWY 35R	ORIGINAL/AMENDMENT 4	CITY RENO	STATE NV
AIRPORT ELEVATION 4415	TDZE 4408	SUPERSEDED RNAV (GPS) X RWY 35R	DATED 09/07/2023	MAG VAR 13E
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
RICHY		PIDIC		TF	FB	1.00	046.70	13.46	11500
VIKES		NIPME		TF	FB	1.00	179.30	6.76	11000
PIDIC	IAF	ROYDO		TF	FB	1.00	348.68	4.37	9900
NIPME	IAF	ROYDO		TF	FB	1.00	258.60	6.88	9900
RAMRE	IAF	ROYDO		TF	FB	1.00	324.10	9.92	9900
SPOON	IAF	ROYDO		TF	FB	1.00	348.61	4.58	9900
ROYDO	IF	PUNTE		TF	FB	1.00	347.11	5.63	8600
PUNTE		SUTEE		TF	FB	1.00	347.09	2.73	8100
SUTEE	FAF	FAXEM/6.01 NM TO RW35R		TF	FB	0.30	347.11	3.94	
FAXEM/6.01 NM TO RW35R		RW35R	MAP	TF	FO	0.30	347.11	6.01	
RW35R	MAP	4815 MSL		CA			347.11		
4815 MSL		TAKLE		DF	FO	1.00			11000

MISSED APPROACH

MAP:

LNAV/VNAV: DA
LNAV: RW35R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 11000 DIRECT TAKLE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000.
*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 250 FEET PER NM TO 5600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT ROYDO
3. **FAC:** 347.11 **FAF:** SUTEE **DIST FAF TO MAP:** 9.95 **DIST FAF TO THLD:** 9.95
4. **MIN ALT:** ROYDO 9900, PUNTE 8600, SUTEE 8100, FAXEM/6.01 NM TO RW35R 6660
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **1066 HAT:** 2.77 **GS ANT:**
6. **MIN GP INCPT:** 8100 **GP ALT AT PFAF:** SUTEE 8100 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.44 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 55.0
8. **MSA FROM:** RW35R 12000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA.
 CHART NOTE: RWY 35R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: CIRCLING RWY 8 NA AT NIGHT.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RICHY ON V28-113 SOUTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RAMRE ON V165 SOUTHBOUND.
 CHART SPEED ICON IN PLANVIEW AT PIDIC: MAX 250 KIAS.
 CHART SPEED ICON IN PLANVIEW AT NIPME: MAX 230 KIAS.
 CHART SPEED ICON IN PLANVIEW AT SPOON: MAX 230 KIAS.
 CHART SPEED ICON IN PLANVIEW AT ROYDO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 167.12 INBOUND.
 FAS OBST: 5138 AAO 392403N/1194648W.
 CHART VDP AT 2.56 NM TO RW35R.
 CHART MANDATORY 11000 AT SPOON.

MINIMUMS:

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

ALTERNATE: NA CAT A, B 1200-4, CAT C, D 2100-4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA												
LNAV/VNAV DA	5474	4	1066	5474	4	1066	5474	4	1066	5474	4	1066			
LNAV MDA*	5400	1 1/4	992	5400	1 1/2	992	5400	3	992	5400	3	992			
LNAV MDA	5540	1 1/4	1132	5540	1 1/2	1132	5540	3	1132	5540	3	1132			
CIRCLING	5540	1 1/4	1125	5540	1 1/2	1125	6460	3	2045	6460	3	2045			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED SWR VOR/DME TO ZAPTU – PER IFP REQUEST FORM.
2. TERMINAL ROUTES: REMOVED ZAPTU TO PIDIC – PER IFP REQUEST FORM.
3. TERMINAL ROUTES: REMOVED TARVR TO SPOON – PER IFP REQUEST FORM.
4. TERMINAL ROUTES: PUNTE TO SUTEE COURSE CHANGED FROM “347.11” TO “347.09” AND DISTANCE CHANGED FROM “2.74” TO “2.73” – SUTEE FIX COORDINATES CHANGED.
5. TERMINAL ROUTES: SUTEE TO FAXEM/6.01 NM TO RW35R DISTANCE CHANGED FROM “3.95” TO “3.96” - SUTEE FIX COORDINATES CHANGED.
6. TERMINAL ROUTES: FAXEM/6.01 NM TO RW35R RW35R DISTANCE CHANGED FROM "5.99" TO "6.01" - FAXEM FIX COORDINATES CHANGED.
7. TERMINAL ROUTES: REMOVED FOBAX FROM DF/TF LEG AND ADDED DIRECT TO TAKLE TO DF LEG – MISSED APPROACH INSTRUCTIONS CHANGED PER IFP REQUEST FORM.
8. MISSED APPROACH INSTRUCTIONS: CHANGED FROM “CLIMB TO 11000 DIRECT FOBAX AND ON TRACK 345.97 TO TAKLE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000.” TO “CLIMB TO 11000 DIRECT TAKLE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000” AND CHANGED “***” TO “*” FOR CG/CGTA – PER IFP REQUEST FORM AND 8260.19K.
9. PROFILE LINE 3: DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM “9.94” TO “9.95” – FAF COORDINATES CHANGED.
10. PROFILE LINE 5: “1063 HAT: 2.72” CHANGED TO “1066 HAT: 2.77” – LNAV/VNAV HAT CHANGED.
11. PROFILE LINE 7: GPA/TCH CHANGED FROM "3.42/75.0" TO "3.44/55.0" - TO MATCH THE PFAF GPA/TCH AND COORDINATES FOR RNAV (GPS) X RWY 35R AND RNAV (GPS) Y RWY 35R.
12. NOTES: ADDED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - PER 8260.19K.
13. NOTES: REMOVED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SWR VOR/DME ON AIRWAY RADIALS 005 CW 062” – SWR VOR/DME REMOVED FROM PROCEDURE.
14. NOTES: CHART SPEED ICON IN PLANVIEW AT NIPME: CHANGED FROM “MAX 250 KIAS” TO “MAX 230 KIAS” – PER IFP REQUEST FORM.
15. NOTES: CHART SPEED ICON IN PLANVIEW AT SPOON: CHANGED FROM “MAX 250 KIAS” TO “ MAX 230 KIAS” – PER IFP REQUEST FORM.
16. ADDITIONAL FLIGHT DATA: REMOVED “CHART MANDATORY 14000 AT TARVR” – TARVR REMOVED FROM PROCEDURE.
17. ADDITIONAL FLIGHT DATA: REMOVED “CHART CIRCLING ICON” – PER CIRCLING MEMO.
18. ADDITIONAL FLIGHT DATA: CHART VDP CHANGED FROM "CHART VDP AT 2.50 NM TO RW35R" TO "CHART VDP AT 2.56 NM TO RW35R" - NEW GPA/TCH.
19. ADDITIONAL FLIGHT DATA: FAS OBSTACLE CHANGED FROM “5120 AAO 392406N/1194647W.” TO “5138 AAO 392403N/1194648W” – NEW EVALUATION PERFORMED.
20. ADDITIONAL FLIGHT DATA: ADDED “CHART MANDATORY 11000 AT SPOON.” – PER IFP REQUEST FORM.
21. MINIMUMS: LNAV/VNAV MDA INCREASED FROM “5471 ALL CATS” TO “5474 ALL CATS” – NEW CONTROLLING OBSTACLE.
22. MINIMUMS: LNAV DA CHANGED FROM “5500 ALL CATS” TO “5540 ALL CATS” – INCREASED TO CLEAR CIH OCS PENETRATION.
23. MINIMUMS: LNAV * MDA CHANGED FROM “5380 ALL CATS” TO “5400 ALL CATS” – INCREASED TO CLEAR FINAL PENETRATION.
24. MINIMUMS: CIRCLING CAT A/B CMA CHANGED FROM “5500” TO “5540” TO MATCH LNAV MINIMUMS INCREASE.
25. ALTERNATE MINS: CHANGED FROM “CAT A, B 1100-4, CAT C, D 2100-4” TO “CAT A, B 1200-4, CAT C, D 2100-4” – MINIMUMS INCREASED.

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA

OTHER: ZOA, RNO APP CON, RNO ATCT, AMGR, NV AERO

FLIGHT CHECKED BY

CHRISTOPHER R VANDEVEER

Digitally signed by

RAKE MCGRAW

Dec 30, 2025

OFFICE

AJF

DATE

12/11/2025

DEVELOPED BY

BRITNEY ARMENTROUT

Digitally signed by

RAKE MCGRAW

Dec 30, 2025

OFFICE

AJV-A422

DATE

07/29/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Dec 30, 2025

OFFICE

AJV-A422

DATE

**TITLE
MANAGER**



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> RNO	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 35R	<u>AMDT NO.</u> 4	<u>CITY</u> RENO	<u>STATE</u> NV	<u>AIRPORT ELEVATION</u> 4415	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> RICHY	<u>TO</u> PIDIC
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<u>RNP</u> 1.00	<u>DISTANCE</u> 13.46	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	390236.00N/1195254.00W	9338	215	8	4B	2000				AT162	11500
TERRAIN	390236.00N/1195254.00W	9137 (9100)								AS1500	10600

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:

FEEDER

<u>FROM</u> VIKES	<u>TO</u> NIPME
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<u>RNP</u> 1.00	<u>DISTANCE</u> 6.76	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391751.00N/1193612.00W	6647	215	8	4B	2000				AT2353	11000
TERRAIN	391657.00N/1193703.00W	6341 (6300)								AS1500	7800

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:



AIRPORT ID
RNO

PROCEDURE NAME
RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

INITIAL

FROM
PIDIC

TO
ROYDO

RNP
1.00

DISTANCE
4.37

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	390806.00N/1194936.00W	6828	215	8	4B	1000				PR380 AT1692	9900
TERRAIN	390809.00N/1194927.00W	6568 (6600)								AS1500	8100

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
NIPME

TO
ROYDO

RNP
1.00

DISTANCE
6.88

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391445.00N/1194254.00W	7179	215	8	4B	1000				PR340 AT1381	9900
TERRAIN	390957.00N/1193645.00W	6384 (6400)								AS1500	7900

COMPUTATIONS

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

SEGMENT REMARKS:



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RNO

PROCEDURE NAME
RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

INITIAL

FROM
RAMRE

TO
ROYDO

RNP
1.00

DISTANCE
9.92

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	390527.00N/1194015.00W	6739	215	8	4B	1000				PR350 AT1811	9900
TERRAIN	390527.00N/1194015.00W	6538 (6500)								AS1500	8000

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
SPOON

TO
ROYDO

RNP
1.00

DISTANCE
4.58

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	390800.00N/1194842.00W	6572	215	8	4B	1000				PR380 AT1948	9900
TERRAIN	390800.00N/1194842.00W	6371 (6400)								AS1500	7900

COMPUTATIONS

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

SEGMENT REMARKS:



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RNO

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AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

INTERMEDIATE

FROM ROYDO **TO** PUNTE

RNP 1.00 **DISTANCE** 5.63 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391533.00N/1194306.00W	7517	215	8	4B	500				SA-117 PR310 AT390	8600
TERRAIN	391500.00N/1194303.00W	7165 (7200)								AS1000	8200

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM PUNTE **TO** SUTEE

RNP 1.00 **DISTANCE** 2.73 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	391554.00N/1194309.00W	7448	215	8	4B	500				SA-186 PR260	8100
TERRAIN	391642.00N/1194330.00W	6492 (6500)								AS1500	8000

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
RNO

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RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

FINAL: LNAV/VNAV

FROM SUTEE **TO** RW35R

RNP 0.30 **DISTANCE** 9.95 **PAT** **MAP** DA **HAT** 1066 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
ANTENNA (32-056230)	392820.56N/1194529.71W	5030	20	3	1A		19.21:1			PR97	5474

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM SUTEE **TO** FAXEM/6.01 NM TO RW35R

RNP 0.30 **DISTANCE** 3.94 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	392221.00N/1194648.00W	6070	215	8	4B	250				XL198 PR130	6660

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
RNO

PROCEDURE NAME
RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
FAXEM/6.01 NM TO RW35R

TO
RW35R

RNP
0.30

DISTANCE
6.01

PAT

MAP
RW35R

HAT
992

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	392403.00N/1194648.00W	5138	215	8	4B	250				XL1	5400

COMPUTATIONS

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

SEGMENT REMARKS:

CG/CGTA LINE OF MINIMA

FINAL: LNAV STEPDOWN

FROM
FAXEM/6.01 NM TO RW35R

TO
RW35R

RNP
0.30

DISTANCE
6.01

PAT

MAP
RW35R

HAT
1132

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	392403.00N/1194648.00W	5138	215	8	4B	250				XL1 MA151	5540

COMPUTATIONS

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

SEGMENT REMARKS:

MA ADJUSTMENT IN ORDER TO RAISE HMAS/OCS START ALTITUDE TO CLEAR CIH EVAL SLOPING SURFACE PENETRATION



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4415

FACILITY
RNAV

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
TAKLE

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
5216

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				11000
AAO	393903.00N/1194609.00W	6359	215	8	4B	1000				PR90	7500
TERRAIN	393903.00N/1194609.00W	6158 (6200)								AS1500	7700

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM
RW35R **TO**
TAKLE

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
5299

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC	250	5600		11000
AAO	393903.00N/1194609.00W	6359	215	8	4B	1000				PR90	7500
TERRAIN	393903.00N/1194609.00W	6158 (6200)								AS1500	7700

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
RNO

PROCEDURE NAME
RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
4415

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW35R

TO
TAKLE

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
5439

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	393524.00N/1195542.00W	8452	215	8	4B		ASC				11000
AAO	393903.00N/1194609.00W	6359	215	8	4B	1000				PR90	7500
TERRAIN	393903.00N/1194609.00W	6158 (6200)								AS1500	7700

COMPUTATIONS

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

SEGMENT REMARKS:

TOP LINE IS CIH EVAL SLOPING SURFACE PENETRATION

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
ANTENNA (32-056230)	392820.56N/1194529.71W	1.38	1125	5030	20	3	1A	300		SI	5540
CATEGORY B											
ANTENNA (32-056230)	392820.56N/1194529.71W	1.98	1125	5030	20	3	1A	300		SI	5540
CATEGORY C											
TREE	392800.00N/1194203.00W	3.19	2045	6157	215	8	4B	300			6460
CATEGORY D											
TREE	392800.00N/1194203.00W	4.19	2045	6157	215	8	4B	300			6460

CIRCLING REMARKS:

MSA

CENTER
RW35R

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	392039.00N/1195506.00W	206	11.2	10971	215	8	4B	1000			12000

MSA REMARKS:



AIRPORT ID
RNO

PROCEDURE NAME
RNAV (GPS) X RWY 35R

AMDT NO.
4

CITY
RENO

STATE
NV

AIRPORT ELEVATION
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FACILITY
RNAV

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZOA ARTCC, RNO APP CON, RNO TOWER

WX SERVICE ASOS	LOCATION RNO	HRS OPERATION 24	ALTIMETER SOURCE RNO	DISTANCE	WMSCR Y	ADJUSTMENTS 0
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BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
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WX REMARKS:

BACKUP ALTIMETER NOT REQUIRED AS AIRPORT HAS REDUNDANT SOURCES.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW08 - REIL, MIRL, PAPI-4L	NPI-G	
RW17L - REIL, C/LINE, HIRL, PAPI-4L	NPI-G	
RW26 - REIL, MIRL, PAPI-4L	NPI-G	
RW35R - HIRL, REIL, C/LINE, PAPI-4L	NPI-G	
RW17R - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH
RW35L - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	ROLL OUT

GLIDESLOPE ANGLE 3.44	ELEV RWY THRESHOLD 4408.3	TCH 55.0	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.35	TCH 75.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW -10C	CRITICAL HIGH +41C	ACT -10C	APT ISA +6.26C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 1159 HIGH TEMP 1341.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 08	
20:1		

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4484 TREE (32-055282) 392947.2500N/1194705.0500W (1.59)	
FINAL TYPE	LNAV/VNAV AND LNAV
34:1	
4466 TREE (32-056341) 392902.3200N/1194558.9300W (8.32)	4449 POLE (32-021365) 392906.7700N/1194557.6100W (4.57)
4693 TERRAIN (32-064808) 392744.1700N/1194540.1600W (2.84)	4435 TREE (32-024698) 392910.4600N/1194558.8400W (1.54)
4685 TERRAIN (32-056203) 392746.3700N/1194541.3200W (1.38)	
PENETRATIONS REMARKS:	

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.

80 FT VEGETATION PER FPT.

BARO-VNAV NA DUE TO PRECIPITOUS TERRAIN IN FINAL.

ORDER 8260.3 CHAPTER 2 APPLIED TO 6237 AAO 391915N/1194533W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 5335 AAO 392303N/1194621W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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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	7.75
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	000.11
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	6000
DISTANCE FROM	THLD	TO 1500FT POINT	15.91
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	000.11
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	7200

THRESHOLD COORDINATES (IF STR-IN) 392920.89N/1194600.50W
ARP COORDINATES 392956.80N/1194605.20W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 35L DISTANCE 0.93 NM
FAF COORDINATES 391923.14N/1194602.04W
FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME
BRITNEY ARMENTROUT

OFFICE
AJV-A422

DATE
07/29/2025

TITLE
AERONAUTICAL INFORMATION SPECIALIST

