

**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> KRNO	<u>PROCEDURE NAME</u> RNAV (RNP) Y RWY 17L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> RENO	<u>STATE</u> NV		
<u>AIRPORT ELEVATION</u> 4415	<u>TDZE</u> 4415	<u>SUPERSEDED</u> RNAV (RNP) Y RWY 16L	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 13E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
KLOCK	IF	ICEYA		TF	FB	1.00	311.03	3.16	9000
ICEYA		HOMES		TF	FB	1.00	310.99	4.14	7700
HOMES		% WORTH	PFAF	RF	FB	0.50	(2.90 NM RADIUS CCW (CFFKL))	4.28	6400
CANYA	IF	GOYET		TF	FB	1.00	338.64	5.64	8000
GOYET		HOMES		RF	FB	1.00	(2.90 NM RADIUS CCW (CFFKL))	1.40	7700
WORTH	PFAF	% URATE		RF	FB	0.30	(2.90 NM RADIUS CCW (CFFKL))	3.00	
URATE		RW17L	MAP	TF	FO	0.30	167.11	3.00	
RW17L	MAP	ZIDGO		TF	FB	1.00	167.11	8.77	
ZIDGO		USINE		TF	FB	1.00	183.55	6.72	
USINE		YARKU		TF	FO	1.00	127.37	9.36	13000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 13000 ON TRACK 167.11 TO ZIDGO AND ON TRACK 183.55 TO USINE AND ON TRACK 127.37 TO YARKU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 13000.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 252 FEET PER NM TO 7200.

**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 203 FEET PER NM TO 5040.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT HOMES

3. FAC: %

PFAF: WORTH

DIST PFAF TO MAP: 6.00

DIST PFAF TO THLD: 6.00

4. MIN ALT: HOMES 7700, WORTH 6400, URATE 5445

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

339 HAT: 0.83

GS ANT:

6. MIN GP INCPT: 6400

GP ALT AT PFAF : WORTH 6400, URATE 5445

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 75.0

8. MSA FROM: RW17L 12000

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -9°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART SPEED ICON IN PLANVIEW AT CANYA: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KLOCK: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 349.76 INBOUND.
CHART MANDATORY 10000 AT KLOCK.
CHART MANDATORY 10000 AT CANYA.

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															QUALITY 10 CHECKED
RNP 0.12 DA*	4754	1	339	4754	1	339	4754	1	339	4754	1	339			
RNP 0.17 DA**	5017	1 3/4	602	5017	1 3/4	602	5017	1 3/4	602	5017	1 3/4	602			
RNP 0.30 DA	5067	1 7/8	652	5067	1 7/8	652	5067	1 7/8	652	5067	1 7/8	652			

CHANGES - REASONS

1. AIRPORT MAGVAR UPDATED FROM E16/1985 TO E13/2020. - ATC REQUEST.
2. PROCEDURE NAME CHANGED FROM RNAV (RNP) Y RWY 16L TO RNAV (RNP) Y RWY 17L. - AIRPORT MAGVAR UPDATED.
3. TERMINAL ROUTE INITIAL FROM VIKES REMOVED. - FWG CONSENSUS.
4. TERMINAL ROUTE KLOCK TO ICEYA CHANGED FROM COURSE 308.03 TO 311.03. - AIRPORT MAGVAR CHANGE, ICEYA MOVED FOR RF TANGENCY.
5. TERMINAL ROUTE FROM ICEYA TO HOMES CHANGED FROM 307.99 TO 310.99. - AIRPORT MAGVAR CHANGE, ICEYA MOVED FOR RF TANGENCY.
6. TERMINAL ROUTE HOMES TO WORTH ADDED % TO INDICATE RF PFAF AND RNP CHANGED FROM 0.60 TO 0.50. - HOMES MOVED TO MAINTAIN RF TANGENCY, RNP REDUCED PER ATC REQUEST.
7. TERMINAL ROUTE FROM CANYA TO GOYET CHANGED FROM COURSE 335.64 AND DISTANCE 5.00 TO 338.64 ABD 5.64. - AIRPORT MAGVAR CHANGE, CANYA MOVED TO RESOLVE EXCESSIVE DESCENT GRADIENT GOYET MOVED FOR RF TANGENCY.
8. TERMINAL ROUTE GOYET TO HOMES RNP CHANGED FROM 0.70 TO 1.00. - ATC REQUEST.
9. TERMINAL ROUTE URATE TO RW17L REMOVED THE % SIGN AND RELOCATED TO HOMES TO WORTH, COURSE CHANGED FROM 164.11 TO 167.11, TO POINT CHANGED FROM RWY 16L TO RWY 17L. - % MOVED TO PFAF TO INDICATE BEGINNING OF RF FINAL, COURSE CHANGED AND TO POINT CHANGE DUE TO AIRPORT MAGVAR UPDATE.
10. TERMINAL ROUTE FROM RWY 17L TO ZIDGO CHANGED COURSE FROM 164.11 TO 167.11 AND FROM POINT CHANGED FROM RWY 16L TO RWY 17L. - COURSE CHANGED AND TO POINT CHANGE DUE TO AIRPORT MAGVAR UPDATE.
11. TERMINAL ROUTE FROM ZIDGO TO USINE CHANGED COURSE FROM 180.55 TO 183.55. - COURSE CHANGED DUE TO AIRPORT MAGVAR UPDATE.
12. TERMINAL ROUTE FROM USINE TO YARKU CHANGED COURSE FROM 124.37 TO 127.37. - COURSE CHANGED DUE TO AIRPORT MAGVAR UPDATE.
13. MISSED APPROACH INSTRUCTIONS INCREASED ALL COURSES +3 DEGREES, AND ADDED **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 203 FEET PER NM TO 5040. - COURSE CHANGES DUE TO AIRPORT MAGVAR UPDATE, ADDITIONAL CLIMB GRADIENT DUE TO THE ADDITION OF RNP 0.17 DA AND PER 8260.19I.
14. PROFILE LINE 8 CHANGED FROM MSA FROM: RWY 16L 12000 TO RWY 17L 12000. - RWY RENUMBERED DUE TO MAGVAR UPDATE.
15. PBN REQUIREMENTS NOTE CHANGED FROM RNP AR APCH, RF REQUIRED TO RNP AR APCH - GPS. - UPDATED NOTE IAW 8260.19I.
16. UPDATED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 44°C TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -9°C OR ABOVE 54°C. - UPDATED TEMPERATURE DATA.
17. REMOVED CHART PLANVIEW NOTE AT VIKES AND KLOCK: (RNP 0.60). - VIKES INITIAL REMOVED.
18. REMOVED CHART PLANVIEW NOTE PROCEDURE NA FOR ARRIVALS AT VIKES ON V494 SOUTHWEST BOUND. - VIKES INITIAL REMOVED.
19. REMOVED CHART SPEED ICON IN PLANVIEW AT GOYET AND HOMES: MAX 180 KIAS. - FIXES MOVED TO REMOVE SPEED RESTRICTIONS.
20. ADDED CHART SPEED ICON IN PLANVIEW AT CANYA: MAX 210 KIAS. - ATC REQUEST, FWG CONSENSUS.
21. REMOVED ADDITIONAL FLIGHT DATA CHART 4458 POLE 393101N/1194557W, 4497 POLE 393118N/1194553W, 4490 TREE 393112N/1194554W, 4454 ROD ON POLE 393101N/1194558W, 4458 TREE 393102N/1194605W, 4501 TOWER 393127N/1194557W. - NO LONGER REQUIRED IAW 8260.19I.
22. ADDED ADDITIONAL FLIGHT DATA CHART MANDATORY 10000 AT CANYA. - ENROUTE INTEGRATION AND ATC REQUEST.
23. RNP 0.12 DA* MINS CHANGED DA/HAT AND VISIBILITY FROM 4792/377 AND 1 1/8 SM TO 4754/339 AND 1 SM. - NEW FINAL CONTROLLER IDENTIFIED.
24. ADDED RNP 0.17 DA**. - ATC REQUEST.
25. RNP 0.30 DA MINS CHANGED DA/HAT AND VISIBILITY FROM 5127/712 AND 2 1/2 SM TO 5067/652 AND 1 7/8 SM. - FINAL CONTROLLER ACCURACY CODE IMPROVED FROM 4D TO 1B.
26. ADDITIONAL FLIGHT DATA CHANGED FROM HOLD S, RT, 346.76 INBOUND TO 349.76 INBOUND. - AIRPORT MAGVAR UPDATED.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOA, RNO APP CON, RNO ATCT, AMGR, NV AERO**FLIGHT CHECKED BY**

DUSTIN D HANSON

Digitally signed by

ERIC N SUSKI

Aug 19, 2022

OFFICE

FPO

DATE

10/17/2022

DEVELOPED BY

TYLER MITCHELL

Digitally signed by

TYLER D MITCHELL

Jul 29, 2022

OFFICE

AJV-A432

DATE

06/16/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by

ERIC N SUSKI

Aug 19, 2022

OFFICE

AJV-A430

DATE**TITLE**
MANAGERQUALITY
10
CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KRNO	RNAV (RNP) Y RWY 17L	2	RENO	NV	4415	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM KLOCK TO ICEYA

<u>RNP</u> 1.00	<u>DISTANCE</u> 3.16	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<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	393015.00N/1193303.00W	7376	164	98	4E	500				AC98 PR190 AT836	9000
TERRAIN	393015.00N/1193303.00W	7175 (7200)								AS1500	8700

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

INTERMEDIATE: STEPDOWN

FROM ICEYA TO HOMES

<u>RNP</u> 1.00	<u>DISTANCE</u> 4.14	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<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	393709.00N/1193733.00W	6129	164	98	4E	500				AC98 PR170 AT803	7700
TERRAIN	393257.00N/1193939.00W	5872 (5900)								AS1500	7400

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



INTERMEDIATE: STEPDOWN

FROM

HOMES

TO

WORTH

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
0.50	4.28											
<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	393612.00N/1193815.00W		5555	164	98	4E	500				AC98 PR80	6300
TERRAIN	393612.00N/1193815.00W		5354 (5400)								AS1000	6400

COMPUTATIONS												
RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
HOMES-WORTH	7700	210	242.16	3285.1	22.13	2.90	19.34					(CFFKL)/2.9 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

CANYA

TO

GOYET

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
1.00	5.64										
<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	393154.00N/1193918.00W	6149	164	98	4E	500				AC98 PR150 AT1103	8000
TERRAIN	393154.00N/1193918.00W	5948 (5900)								AS1500	7400

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

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

GOYET

TO

HOMES

<u>RNP</u> 1.00	<u>DISTANCE</u> 1.40	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<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	393657.00N/1193724.00W		6126	164	98	4E	500				AC98 PR130 AT846	7700
TERRAIN	393518.00N/1193706.00W		5649 (5600)								AS1500	7100

COMPUTATIONS													
RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE	
GOYET-HOMES	8050	210	243.5	3635.38	22.13	2.90	21.43					(CFFKL)/1.4 NM	

SEGMENT REMARKS:

FINAL

FROM

WORTH

TO

URATE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
0.12	3.00											
<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>
								ASC				5445

COMPUTATIONS													
RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	IR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE	
WORTH-URATE	6400	165	184.46	1985.1	20.63	2.90	12.16			2355.68	20.35:1	(CFFKL)/3 NM	

SEGMENT REMARKS:



FINAL

FROM

URATE

TO

RW17L

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.12	3.00		RW17L	339								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
POLE (32-021339)	393117.64N/1194553.41W		4497	50	20	2C		20.34:1			AC20 MA237	4754

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

WORTH

TO

URATE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.17	3.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				5445

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

WORTH-URATE

6400

165

186.46

1985.1

20.63

2.90

12.16

2596.72

20.34:1

SEGMENT REMARKS:



FINAL

FROM

URATE

TO

RW17L

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.17	3.00		RW17L	602								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
POLE (32-023766)	393156.83N/1194533.06W		4525	500	125	5E		20.34:1			AC125 MA367	5017

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

SEGMENT REMARKS:

FINAL

FROM

WORTH

TO

URATE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.30	3.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				5445

COMPUTATIONS	RF SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
	WORTH-URATE	6400	165	186.46	1985.1	20.63	2.90	12.16			3467.36	20.32:1	(CFFKL)/3 NM

SEGMENT REMARKS:



FINAL

FROM

URATE

TO

RW17L

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.30	3.00		RW17L	652								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
BUILDING (32-000221)	393159.72N/1194532.97W		4778	20	10	1B		20.32:1			AC10 MA289	5067

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

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

13000 MSL

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
0.12-1.00					4502							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	393118.00N/1194536.00W		4520	50	20	2C	ASC		252	7200	AC20	13000
VEGETATION (32-049610)	391421.86N/1194341.84W		6694	20	10	1B	1000				AC10 PR340	8100
TERRAIN	391427.00N/1194345.00W		6673 (6700)								AS1500	8200

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



MISSED APPROACH: LEVEL SURFACE

FROM
DA

TO
13000 MSL

<u>RNP</u> 0.17-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 4737				
<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 (30-000221)	484601.10N/1043245.00W	2338	250	50	4D	ASC		203	5040	AC50	13000
VEGETATION (32-049610)	391421.86N/1194341.84W	6694	20	10	1B	1000				AC10 PR340	8100
TERRAIN	391427.00N/1194345.00W	6673 (6700)								AS1500	8200

COMPUTATIONS

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

MISSED APPROACH: LEVEL SURFACE

FROM
DA

TO
13000 MSL

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 4741				
<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					13000
VEGETATION (32-049610)	391421.86N/1194341.84W	6694	20	10	1B	1000				AC10 PR340	8100
TERRAIN	391427.00N/1194345.00W	6673 (6700)								AS1500	8200

COMPUTATIONS

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

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED



MSA

CENTER
RW17L

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	392036.00N/1195457.00W	201	12.4	10941	164	98	4E	1000			12000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

KLOCK TRANSITION TIES TO KENNO (RNAV) STAR.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZOA ARTCC, RNO APP CON, RNO TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KRNO	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KRNO	<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:
BACK-UP ALTIMETER NOT PUBLISHED DUE TO REDUNDANT WEATHER 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>
RW08 - MIRL, REIL, PAPI-4L	NPI-G	
RW17L - HIRL, REIL, C/LINE, PAPI-4L	NPI-G	
RW26 - MIRL, REIL, 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

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 4414.8	<u>TCH</u> 75.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 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

<u>CRITICAL LOW</u> -9C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -9C	<u>APT ISA</u> +6.26C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2016-2020).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 1017 HIGH TEMP 1341.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	RNP
20:1	
.	
Final Type	RNP
34:1	
4490 TREE (32-024710) 393111.60N/1194554.29W (16.26)	4458 POLE (32-021360) 393100.97N/1194557.00W (15.9)
4498 TREE (32-025355) 393114.82N/1194604.69W (14.72)	4458 TREE (32-024789) 393101.98N/1194604.70W (12.93)
4455 POLE (32-055511) 393101.11N/1194557.99W (12.49)	4454 POLE (32-021362) 393101.03N/1194558.04W (11.73)
4493 TREE (32-064528) 393114.42N/1194555.28W (10.87)	4451 POLE (32-054732) 393100.39N/1194558.13W (10.63)
4451 POLE (32-055515) 393101.45N/1194601.13W (7.49)	4466 TREE (32-054864) 393106.74N/1194556.59W (6.73)
4497 POLE (32-021339) 393117.64N/1194553.41W (5.28)	4469 TREE (32-056383) 393109.33N/1194557.68W (2.03)
4484 TREE (32-024792) 393114.91N/1194606.53W (0.46)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - RNP PROCEDURE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

80' VEGETATION USED PER FPT.



<div>AIRPORT ID</div> <div>KRNO</div>	<div>PROCEDURE NAME</div> <div>RNAV (RNP) Y RWY 17L</div>	<div>AMDT NO.</div> <div>2</div>	<div>CITY</div> <div>RENO</div>	<div>STATE</div> <div>NV</div>	<div>AIRPORT ELEVATION</div> <div>4415</div>	<div>FACILITY</div> <div>RNAV</div>
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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	4.74
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	#
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	5000
DISTANCE FROM	THLD	TO 1500FT POINT	8.68
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.40
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	#
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	5400

THRESHOLD
COORDINATES
(IF STR-IN)

393049.83N/1194600.27W

ARP COORDINATES

392956.80N/1194605.20W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 35L DISTANCE 0.93 NM

FAF
COORDINATES

393619.42N/1194409.56W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
#1000' PT IS IN FINAL RF SEGMENT FROM WORTH TO URATE (RF CENTERPOINT CFFKL @ 393349.575N/1194214.765W & 2.90 NM RADIUS) AND IS 1.74 NM PRIOR TO URATE. 1500' PT IN INTERMEDIATE RF SEGMENT FROM HOMES TO WORTH (RF CENTERPOINT CFFKL @ 393349.575N/1194214.765W & 2.90 NM RADIUS) AND IS 2.68 NM PRIOR TO WORTH (PFAF).

QUALITY
10
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> TYLER MITCHELL	<u>OFFICE</u> AJV-A432	<u>DATE</u> 06/16/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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