

**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.

<u>AIRPORT ID</u> KRCZ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> ROCKINGHAM	<u>STATE</u> NC		
<u>AIRPORT ELEVATION</u> 358	<u>TDZE</u> 356	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 09/09/2021	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2010
<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>
RAEFO	IAF	HODOG	NOPT	TF	FB	1.00	229.57	14.52	2100
TOWEY	IAF	HODOG	NOPT	TF	FB	1.00	025.88	8.33	2100
HODOG	IF/IAF	ZIPPO		TF	FB	1.00	314.63	6.05	1900
ZIPPO	FAF	NIGTE/1.63 NM TO RW32		TF	FB	0.30	314.57	3.03	
NIGTE/1.63 NM TO RW32		RW32	MAP	TF	FO	0.30	314.57	1.63	
RW32	MAP	640 MSL		CA			314.57		
640 MSL		CUPLI		DF	FB	1.00			
CUPLI		NIMDE		TF	FB	1.00	064.53	7.00	
NIMDE		RAEFO		TF	FO	1.00	107.56	17.40	2400

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW32

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2400 DIRECT CUPLI AND RIGHT TURN ON TRACK 064.53 TO NIMDE AND ON TRACK 107.56 TO RAEFO AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SE HODOG, RT, 314.63 INBOUND, 2100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 314.57FAF: ZIPPODIST FAF TO MAP: 4.67DIST FAF TO THLD: 4.67

4. MIN ALT: HODOG 2100, ZIPPO 1900, NIGTE/1.63 NM TO RW32 900

5. DIST TO THLD FROM OM:MM:IM:150 HAT:284 HAT: 0.77GS ANT:

6. MIN GP INCPT: 1900GP ALT AT PFAF : ZIPPO 1900OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 40.0

8. MSA FROM: RW32 2100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.  
CHART NOTE: PROCEDURE NA AT NIGHT.  
CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 NOT AUTHORIZED.  
CHART NOTE: BARO-VNAV NA WHEN USING MACKALL ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MACKALL ALTIMETER SETTING: INCREASE LPV DA TO 679 FEET; LNAV/VNAV DA TO 833 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM.

ADDITIONAL FLIGHT DATA:

628 AAO 345115N/0794036W  
HOLD W, RT, 095.00 INBOUND.  
FAS OBST: 489 TREE 345303N/0794334W.  
WAAS CHANNEL # 63217  
REFERENCE PATH ID: W32A  
LTP HAE: 76.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	640	1	284	640	1	284	640	1	284	640	1	284			
LNAV/VNAV DA	794	1 1/4	438	794	1 1/4	438	794	1 1/4	438	794	1 1/4	438			
LNAV MDA	740	1	384	740	1	384	740	1 1/8	384	740	1 1/8	384			
CIRCLING	800	1	442	820	1	462	960	1 3/4	602	960	2	602			



**CHANGES - REASONS**

1. CHANGED LPV DA/HAT FROM 633/277 TO 640/284 - NEW CONTROLLING OBSTACLE.
2. CHANGED CRC REMAINDER FROM E69FF603 TO 52C27AFE - LTP COORDINATES CHANGED FROM 345315.8735N/0794501.5720W TO 345315.8770N/0794501.5825W, FPAP COORDINATES CHANGED FROM 345408.9800N/ 0794628.6200W TO 345408.9990N/ 0794628.6215W, ELLIPSOIDAL HEIGHT CHANGED FROM +00768 TO +00769. - IAW 8260.19I, APPENDIX K.
3. CHART NOTE: PROCEDURE NA AT NIGHT - 20:1 PENETRATIONS STRAIGHT-IN RUNWAY 32 AND CIRCLING RWY 32 AND 14.
4. CHANGE LNAV CAT D VISIBILITY FROM 1 1/4 TO 1 1/8 - IAW 8260.33, TABLE 3-3-1.
5. CHANGE LNAV/VNAV ALL CATS VISIBILITY FROM 1 1/2 TO 1 1/4 - IAW 8260.33, TABLE 3-3-1.
6. DELETE VDP AT \*1.08 NM TO RW32 - NEW SURVEY WITH 20:1 PENETRATION.
7. DELETE PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE 3.15/TCH 26) - TO CLEAR T- NEW SURVEY AND VGSI DATA.
8. DELETE PROFILE NOTE \*LNAV ONLY - IAW 8260.19I, 1-1-5, (F)(12).
9. DELETE ASTERISK FROM MINIMUM ALTITUDE AT NIGTE 1.63 NM TO RW32 - IAW 8260.19I, 1-1-5, (F)(12).
10. DELETE NOTE: DME/DME RNP-0.3 NA - IAW 8260.19I, 1-1-5, (F)(18).
11. PBN REQUIREMENTS NOTE: RNP APCH-GPS - IAW 8260.19I, 8-6-8.
12. DELETE NOTE: CIRCLING RWY 14 NA AT NIGHT - IAW NEW RWY 14 SURVEY.
13. CHANGE NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F)." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C." - IAW NEW NOTE FORMAT.
14. CHANGE NOTE FROM "BARO-VNAV AND VDP WHEN USING MACKALL ALTIMETER SETTING." TO "BARO-VNAV WHEN USING MACKALL ALTIMETER SETTING." - REMOVED VDP DUE TO NEW 20:1 PENETRATIONS.
15. CHANGE NOTE FROM "RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA." TO "RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA." - NEW SURVEY AND 20:1 PENETRATIONS.
16. CHANGE NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MACKALL AAF ALTIMETER SETTING AND INCREASE ALL DA 39 FEET AND ALL MDA 40 FEET AND INCREASE LNAV CAT C VISIBILITY 3/8 SM." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MACKALL ALTIMETER SETTING: INCREASE LPV DA TO 679 FEET; LNAV/VNAV DA TO 833 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM." - IAW 8260.19I, (N)(1)(A)(2).
17. CHANGE LINE 5 DISTANCE TO THRESHOLD OM: FROM 277 HAT: 0.75 TO 284 HAT: 0.77- INCREASED LPV DA/HAT AND DISTANCE FROM THRESHOLD.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBA** ☒ **OTHER:** ZDC, FAY APP CON, AMGR

**FLIGHT CHECKED BY**  
KEVIN RIESE

*Digitally signed by*  
**JASON KRETSCHMER**  
May 22, 2023

**OFFICE**  
FPO  
**DATE**  
05/18/2023

**DEVELOPED BY**  
ANDRE MARSH

*Digitally signed by*  
**JASON KRETSCHMER**

**OFFICE**  
AJV-A421  
**DATE**  
02/16/2023

**APPROVED BY**  
MARLON ROBINSON

Mar 13, 2023  
*Digitally signed by*  
**JASON KRETSCHMER**  
Mar 13, 2023

**OFFICE**  
AJV-A420  
**DATE**  
**TITLE**  
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRCZ
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	345315.8770N
LTP/FTP LONGITUDE	0794501.5825W
LTP/FTP ELLIPSOIDAL HEIGHT	+00769
FPAP LATITUDE	345408.9990N
FPAP LONGITUDE	0794628.6215W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	52C27AFE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01082
FPAP ORTHOMETRIC HEIGHT	+01082

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

<u>AIRPORT ID</u> KRCZ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>AMDT NO.</u> ORIG-E	<u>CITY</u> ROCKINGHAM	<u>STATE</u> NC	<u>AIRPORT ELEVATION</u> 358	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
RAEFO

TO  
HODOG

<u>RNP</u>	<u>DISTANCE</u> 14.52	<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>
1.TOWER (37-003320)	345638.62N/0792643.43W		691	50	20	2C	1000				AT409	2100
2.TERRAIN	345821.00N/0792739.00W		407 (400)								AS1500	1900

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:

INITIAL

FROM  
TOWEY

TO  
HODOG

<u>RNP</u>	<u>DISTANCE</u> 8.33	<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>
3.TOWER (45-001745)	343942.25N/0793334.52W		486	20	3	1A	1000				AT614	2100
4.TERRAIN	344654.00N/0793706.00W		273 (300)								AS1500	1800

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:



INTERMEDIATE

FROM

HODOG (IF/IAF)

TO

ZIPPO

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.05											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	345054.00N/0794000.00W		607	164	98	4E	500				AC98	1300
6.TERRAIN	345054.00N/0794000.00W		407 (400)								AS1500	1900

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

FINAL: LPV

FROM

ZIPPO

TO

RW32

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.67		DA			284						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TREE (37-129029)	345257.69N/0794437.05W		448	20	3	1A		34:1			MA34	640

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



FINAL: LNAV/VNAV

FROM  
ZIPPO

TO  
RW32

RNP	DISTANCE 4.67	PAT	MAP DA	HAT 438			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TREE	345303.32N/0794333.72W		489	50	20	2C		23.4:1			AC20	794

COMPUTATIONS

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

FINAL: LNAV

FROM  
ZIPPO

TO  
NIGTE/1.63 NM TO RW32

RNP	DISTANCE 3.03	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	345113.84N/0794053.71W		609	50	20	2C	250				DG39	900

COMPUTATIONS

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



FINAL: LNAV STEPDOWN

FROM  
NIGTE/1.63 NM TO RW32

TO  
RW32

RNP	DISTANCE 1.63	PAT	MAP RW32	HAT 384			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TREE	345303.32N/0794333.72W		489	50	20	2C	250					740

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

HOLD-IN-LIEU OF PT

FROM  
HODOG

TO  
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TOWER (37-000487)	344531.00N/0792622.00W		702	100	20	3C	1000				AT398	2100
11.TERRAIN	345157.00N/0793330.00W		371 (400)								AS1500	1900

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 : LPV

FROM  
DA

TO  
RAEFO

RNP	DISTANCE	PAT	MAP	HAT			HMAS 438					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
12.TREE (37-130454)	345257.47N/0794433.65W		445	20	3	1A		ASC				2400
13.TOWER (37-020174)	345744.35N/0794747.69W		863	20	3	1A	1000					1900
14.TERRAIN	350203.00N/0793436.00W		502 (500)								AS1500	2000

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM  
DA

TO  
RAEFO

RNP	DISTANCE	PAT	MAP	HAT			HMAS 633					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2400
13.TOWER (37-020174)	345744.35N/0794747.69W		863	20	3	1A	1000					1900
14.TERRAIN	350203.00N/0793436.00W		502 (500)								AS1500	2000

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

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM  
RW32

TO  
RAEFO

RNP	DISTANCE	PAT	MAP	HAT			HMAS 640					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2400
13.TOWER (37-020174)	345744.35N/0794747.69W		863	20	3	1A	1000					1900
14.TERRAIN	350203.00N/0793436.00W		502 (500)								AS1500	2000

COMPUTATIONS

TF TURN FIX    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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
15.POLE (37-129550)	345413.31N/0794542.89W	1.30	442	481	20	3	1A	300			800
CATEGORY B											
16.TREE	345305.06N/0794252.00W	1.82	462	499	50	20	2C	300		XP21	820
CATEGORY C											
17.TOWER (37-002425)	345538.00N/0794318.00W	2.86	602	658	100	20	3C	300			960
CATEGORY D											
17.TOWER (37-002425)	345538.00N/0794318.00W	3.73	602	658	100	20	3C	300			960

CIRCLING REMARKS:

XP: ADJUSTMENT TO MAINTAIN CURRENT MDA MINIMA.



MSA

CENTER

RW32

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (37-002327)	351753.00N/0794505.00W	008	24.6	1049	100	20	3C	1000			2100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
FAY APP CON, RDU FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KRCZ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KRCZ	<u>DISTANCE</u> 0.27	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KHFF	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHFF	<u>DISTANCE</u> 15.79	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 39

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KRCZ 358, KHFF 344  
RA = 38.2.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - MIRL (PCL), PAPI-2L (PCL)		NPI-F	
RW32 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		NPI-F	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 355.1	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.1
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	201
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -15C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -15C	<u>APT ISA</u> +14.29C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 959 HIGH TEMP 1266.

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 14		
20:1			
401 TREE (37-129546) 345349.9100N/0794551.7200W (23.2686)	401 TREE (37-129546) 345349.9100N/0794551.7200W (23.2686)		



AIRPORT ID KRCZ	PROCEDURE NAME RNAV (GPS) RWY 32	AMDT NO. ORIG-E	CITY ROCKINGHAM	STATE NC	AIRPORT ELEVATION 358	FACILITY RNAV
379 TREE (37-130693) 345347.6000N/0794549.3200W (16.2515)	379 TREE (37-130693) 345347.6000N/0794549.3200W (16.2515)					
376 TREE (37-128684) 345344.0600N/0794551.6100W (16.2382)	376 TREE (37-128684) 345344.0600N/0794551.6100W (16.2382)					
371 TREE (37-129820) 345345.8100N/0794549.3900W (13.403)	371 TREE (37-129820) 345345.8100N/0794549.3900W (13.403)					
368 TREE (37-129288) 345346.5500N/0794548.4500W (11.3226)	368 TREE (37-129288) 345346.5500N/0794548.4500W (11.3226)					
403 TREE (37-130945) 345351.8200N/0794554.3200W (10.82)	403 TREE (37-130945) 345351.8200N/0794554.3200W (10.82)					
378 TREE (37-130718) 345344.4800N/0794553.4600W (10.7826)	378 TREE (37-130718) 345344.4800N/0794553.4600W (10.7826)					
368 TREE (37-128769) 345344.6200N/0794550.4500W (10.4357)	368 TREE (37-128769) 345344.6200N/0794550.4500W (10.4357)					
418 TREE (37-130609) 345348.6600N/0794601.8800W (10.0247)	418 TREE (37-130609) 345348.6600N/0794601.8800W (10.0247)					
373 TREE (37-128509) 345346.5900N/0794550.3900W (9.7092)	373 TREE (37-128509) 345346.5900N/0794550.3900W (9.7092)					
373 TREE (37-129788) 345346.4700N/0794550.6900W (9.0662)	373 TREE (37-129788) 345346.4700N/0794550.6900W (9.0662)					
367 TREE (37-129807) 345346.5700N/0794548.8900W (8.7897)	367 TREE (37-129807) 345346.5700N/0794548.8900W (8.7897)					
371 TREE (37-130938) 345346.0900N/0794550.7700W (7.9418)	371 TREE (37-130938) 345346.0900N/0794550.7700W (7.9418)					
405 TREE (37-129674) 345351.9800N/0794555.8800W (7.1174)	405 TREE (37-129674) 345351.9800N/0794555.8800W (7.1174)					
365 TREE (37-128964) 345346.3500N/0794549.1000W (6.7488)	365 TREE (37-128964) 345346.3500N/0794549.1000W (6.7488)					
372 TREE (37-129135) 345344.8100N/0794552.6000W (6.6681)	372 TREE (37-129135) 345344.8100N/0794552.6000W (6.6681)					
389 TREE (37-130168) 345349.6100N/0794553.4400W (6.4146)	389 TREE (37-130168) 345349.6100N/0794553.4400W (6.4146)					
372 TREE (37-129138) 345344.9000N/0794552.6000W (6.3973)	372 TREE (37-129138) 345344.9000N/0794552.6000W (6.3973)					
364 TREE (37-129620) 345346.9900N/0794548.4300W (6.0656)	364 TREE (37-129620) 345346.9900N/0794548.4300W (6.0656)					
371 TREE (37-128979) 345344.9300N/0794552.3900W (6.0099)	371 TREE (37-128979) 345344.9300N/0794552.3900W (6.0099)					
371 TREE (37-129794) 345344.5200N/0794552.8700W (5.637)	371 TREE (37-129794) 345344.5200N/0794552.8700W (5.637)					
362 TREE (37-129923) 345343.5300N/0794551.1100W (5.5063)	362 TREE (37-129923) 345343.5300N/0794551.1100W (5.5063)					
362 TREE (37-129140) 345344.1800N/0794550.5600W (5.3914)	362 TREE (37-129140) 345344.1800N/0794550.5600W (5.3914)					
388 TREE (37-130930) 345350.1200N/0794553.1100W (4.9846)	388 TREE (37-130930) 345350.1200N/0794553.1100W (4.9846)					
365 TREE (37-128903) 345347.2800N/0794548.9200W (4.5531)	365 TREE (37-128903) 345347.2800N/0794548.9200W (4.5531)					
362 TREE (37-129759) 345344.4600N/0794550.6000W (4.4151)	362 TREE (37-129759) 345344.4600N/0794550.6000W (4.4151)					
368 TREE (37-129625) 345346.9000N/0794550.2500W (4.245)	368 TREE (37-129625) 345346.9000N/0794550.2500W (4.245)					
370 TREE (37-130323) 345344.9300N/0794552.7000W (3.9724)	370 TREE (37-130323) 345344.9300N/0794552.7000W (3.9724)					
362 TREE (37-129235) 345345.4600N/0794549.9900W (3.4479)	362 TREE (37-129235) 345345.4600N/0794549.9900W (3.4479)					
367 TREE (37-129297) 345344.4500N/0794552.4500W (3.2533)	367 TREE (37-129297) 345344.4500N/0794552.4500W (3.2533)					



AIRPORT ID		PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KRCZ		RNAV (GPS) RWY 32	ORIG-E	ROCKINGHAM	NC	358	RNAV
355 TREE (37-129952) 345343.1600N/0794550.1800W (2.7322)				355 TREE (37-129952) 345343.1600N/0794550.1800W (2.7322)			
387 TREE (37-130898) 345350.3200N/0794553.3200W (2.68)				387 TREE (37-130898) 345350.3200N/0794553.3200W (2.68)			
394 TREE (37-128414) 345348.2500N/0794557.2900W (2.6208)				394 TREE (37-128414) 345348.2500N/0794557.2900W (2.6208)			
388 TREE (37-128609) 345350.4800N/0794553.5000W (2.5962)				388 TREE (37-128609) 345350.4800N/0794553.5000W (2.5962)			
361 TREE (37-128877) 345343.8300N/0794551.4800W (2.3653)				361 TREE (37-128877) 345343.8300N/0794551.4800W (2.3653)			
360 TREE (37-130409) 345343.8800N/0794551.1400W (2.3528)				360 TREE (37-130409) 345343.8800N/0794551.1400W (2.3528)			
362 TREE (37-130550) 345346.0200N/0794549.8400W (2.265)				362 TREE (37-130550) 345346.0200N/0794549.8400W (2.265)			
358 TREE (37-129013) 345346.2600N/0794548.4700W (2.1282)				358 TREE (37-129013) 345346.2600N/0794548.4700W (2.1282)			
362 TREE (37-130379) 345346.4500N/0794549.5100W (2.0757)				362 TREE (37-130379) 345346.4500N/0794549.5100W (2.0757)			
400 TREE (37-130964) 345352.2000N/0794555.7900W (1.7567)				400 TREE (37-130964) 345352.2000N/0794555.7900W (1.7567)			
355 TREE (37-130577) 345343.6100N/0794550.1000W (1.646)				355 TREE (37-130577) 345343.6100N/0794550.1000W (1.646)			
364 TREE (37-128560) 345344.1400N/0794552.3200W (1.6212)				364 TREE (37-128560) 345344.1400N/0794552.3200W (1.6212)			
356 TREE (37-129369) 345343.4700N/0794550.5500W (1.5611)				356 TREE (37-129369) 345343.4700N/0794550.5500W (1.5611)			
419 TREE (37-128454) 345352.0300N/0794601.6900W (1.5214)				419 TREE (37-128454) 345352.0300N/0794601.6900W (1.5214)			
364 TREE (37-129376) 345347.2800N/0794549.5300W (1.5115)				364 TREE (37-129376) 345347.2800N/0794549.5300W (1.5115)			
363 TREE (37-128656) 345344.3800N/0794551.9000W (1.3048)				363 TREE (37-128656) 345344.3800N/0794551.9000W (1.3048)			
360 TREE (37-129184) 345346.9400N/0794548.7500W (1.1451)				360 TREE (37-129184) 345346.9400N/0794548.7500W (1.1451)			
364 TREE (37-129004) 345345.2800N/0794551.5200W (0.8687)				364 TREE (37-129004) 345345.2800N/0794551.5200W (0.8687)			
391 TREE (37-128438) 345349.9700N/0794555.4100W (0.7381)				391 TREE (37-128438) 345349.9700N/0794555.4100W (0.7381)			
389 TREE (37-130061) 345350.8400N/0794554.0400W (0.7057)				389 TREE (37-130061) 345350.8400N/0794554.0400W (0.7057)			
360 TREE (37-130017) 345346.1900N/0794549.5600W (0.6907)				360 TREE (37-130017) 345346.1900N/0794549.5600W (0.6907)			
359 TREE (37-129602) 345345.7600N/0794549.7100W (0.4824)				359 TREE (37-129602) 345345.7600N/0794549.7100W (0.4824)			
356 TREE (37-130382) 345343.6500N/0794550.7200W (0.4506)				356 TREE (37-130382) 345343.6500N/0794550.7200W (0.4506)			
Final Type	LPV, LNAV/VNAV, LNAV						
20:1							
359 FENCE (37-129838) 345315.9800N/0794458.1400W (2.6869)				359 FENCE (37-129838) 345315.9800N/0794458.1400W (2.6869)			
364 TRAVERSE_WAY (37-128708) 345315.4600N/0794456.9600W (2.1727)				364 TRAVERSE_WAY (37-128708) 345315.4600N/0794456.9600W (2.1727)			
373 TRAVERSE_WAY (37-129400) 345314.4900N/0794455.0800W (1.9614)				373 TRAVERSE_WAY (37-129400) 345314.4900N/0794455.0800W (1.9614)			
364 TRAVERSE_WAY (37-128897) 345315.2200N/0794456.7900W (0.8815)				364 TRAVERSE_WAY (37-128897) 345315.2200N/0794456.7900W (0.8815)			

QUALITY

34



AIRPORT ID KRCZ		PROCEDURE NAME RNAV (GPS) RWY 32	AMDT NO. ORIG-E	CITY ROCKINGHAM	STATE NC	AIRPORT ELEVATION 358	FACILITY RNAV
Final Type	LPV, LNAV/VNAV, LNAV						
34:1							
34:1				448 TREE (37-129029) 345257.6900N/0794437.0500W (18.2857)			
448 TREE (37-129029) 345257.6900N/0794437.0500W (18.2857)				445 TREE (37-129563) 345258.5500N/0794436.8500W (16.4145)			
445 TREE (37-129563) 345258.5500N/0794436.8500W (16.4145)				446 TREE (37-129052) 345257.9600N/0794436.8700W (16.4093)			
446 TREE (37-129052) 345257.9600N/0794436.8700W (16.4093)				445 TREE (37-129882) 345257.8800N/0794437.2600W (16.0355)			
445 TREE (37-129882) 345257.8800N/0794437.2600W (16.0355)				445 TREE (37-130972) 345257.4400N/0794437.5800W (15.8865)			
445 TREE (37-130972) 345257.4400N/0794437.5800W (15.8865)				446 TREE (37-130819) 345257.9700N/0794436.4100W (15.5214)			
446 TREE (37-130819) 345257.9700N/0794436.4100W (15.5214)				445 TREE (37-128721) 345258.0300N/0794436.7700W (15.3364)			
445 TREE (37-128721) 345258.0300N/0794436.7700W (15.3364)				445 TREE (37-129544) 345256.5700N/0794437.9800W (15.1337)			
445 TREE (37-129544) 345256.5700N/0794437.9800W (15.1337)				443 TREE (37-128790) 345257.8500N/0794437.7800W (15.0061)			
443 TREE (37-128790) 345257.8500N/0794437.7800W (15.0061)				444 TREE (37-128512) 345258.3000N/0794436.8000W (14.8734)			
444 TREE (37-128512) 345258.3000N/0794436.8000W (14.8734)				443 TREE (37-128951) 345258.2200N/0794437.3600W (14.8343)			
443 TREE (37-128951) 345258.2200N/0794437.3600W (14.8343)				443 TREE (37-128697) 345258.2800N/0794437.2800W (14.783)			
443 TREE (37-128697) 345258.2800N/0794437.2800W (14.783)				445 TREE (37-128396) 345257.8300N/0794436.6300W (14.7067)			
445 TREE (37-128396) 345257.8300N/0794436.6300W (14.7067)				443 TREE (37-130433) 345257.6500N/0794437.7100W (14.5142)			
443 TREE (37-130433) 345257.6500N/0794437.7100W (14.5142)				445 TREE (37-129653) 345257.2700N/0794436.9700W (14.3846)			
445 TREE (37-129653) 345257.2700N/0794436.9700W (14.3846)				442 TREE (37-130184) 345258.5800N/0794437.2300W (14.2157)			
442 TREE (37-130184) 345258.5800N/0794437.2300W (14.2157)				444 TREE (37-130344) 345258.2200N/0794436.4300W (14.0034)			
444 TREE (37-130344) 345258.2200N/0794436.4300W (14.0034)				442 TREE (37-128784) 345258.8200N/0794436.8700W (13.9319)			
442 TREE (37-128784) 345258.8200N/0794436.8700W (13.9319)				442 TREE (37-128519) 345257.6500N/0794437.9000W (13.8883)			
442 TREE (37-128519) 345257.6500N/0794437.9000W (13.8883)				443 TREE (37-129589) 345257.6900N/0794437.2500W (13.6794)			
443 TREE (37-129589) 345257.6900N/0794437.2500W (13.6794)				432 TREE (37-128435) 345259.2700N/0794441.1800W (13.2139)			
432 TREE (37-128435) 345259.2700N/0794441.1800W (13.2139)				443 TREE (37-128442) 345257.4100N/0794437.1800W (13.0459)			
443 TREE (37-128442) 345257.4100N/0794437.1800W (13.0459)				440 TREE (37-130615) 345257.9200N/0794438.0800W (12.7207)			
440 TREE (37-130615) 345257.9200N/0794438.0800W (12.7207)				439 TREE (37-130953) 345257.7500N/0794438.7300W (12.6994)			
439 TREE (37-130953) 345257.7500N/0794438.7300W (12.6994)				440 TREE (37-129801) 345258.6700N/0794437.3800W (12.6704)			
440 TREE (37-129801) 345258.6700N/0794437.3800W (12.6704)				440 TREE (37-129287) 345258.1600N/0794437.7900W (12.5746)			
440 TREE (37-129287) 345258.1600N/0794437.7900W (12.5746)				440 TREE (37-129542) 345258.4500N/0794437.4200W (12.3596)			

QUALITY  
34  
CHECKED

AIRPORT ID KRCZ	PROCEDURE NAME RNAV (GPS) RWY 32	AMDT NO. ORIG-E	CITY ROCKINGHAM	STATE NC	AIRPORT ELEVATION 358	FACILITY RNAV
440 TREE (37-129542) 345258.4500N/0794437.4200W (12.3596)	444 TREE (37-129111) 345257.9100N/0794435.8200W (12.2536)					
444 TREE (37-129111) 345257.9100N/0794435.8200W (12.2536)	438 TREE (37-130655) 345257.0200N/0794439.6600W (12.2379)					
438 TREE (37-130655) 345257.0200N/0794439.6600W (12.2379)	442 TREE (37-130146) 345256.7700N/0794437.7900W (12.1137)					
442 TREE (37-130146) 345256.7700N/0794437.7900W (12.1137)	439 TREE (37-129104) 345258.0500N/0794438.1000W (11.9902)					
439 TREE (37-129104) 345258.0500N/0794438.1000W (11.9902)	443 TREE (37-128936) 345257.5300N/0794436.3800W (11.6833)					
443 TREE (37-128936) 345257.5300N/0794436.3800W (11.6833)	439 TREE (37-129230) 345257.9900N/0794437.8900W (11.4705)					
439 TREE (37-129230) 345257.9900N/0794437.8900W (11.4705)	443 TREE (37-130046) 345256.4200N/0794437.2300W (11.3916)					
443 TREE (37-130046) 345256.4200N/0794437.2300W (11.3916)	442 TREE (37-130209) 345257.0000N/0794437.1000W (11.1625)					
442 TREE (37-130209) 345257.0000N/0794437.1000W (11.1625)	442 TREE (37-128886) 345257.6000N/0794436.5100W (11.0632)					
442 TREE (37-128886) 345257.6000N/0794436.5100W (11.0632)	443 TREE (37-130852) 345257.5500N/0794435.9100W (10.7934)					
443 TREE (37-130852) 345257.5500N/0794435.9100W (10.7934)	443 TREE (37-129158) 345257.2200N/0794436.1300W (10.6423)					
443 TREE (37-129158) 345257.2200N/0794436.1300W (10.6423)	442 TREE (37-129349) 345256.8300N/0794436.8900W (10.4481)					
442 TREE (37-129349) 345256.8300N/0794436.8900W (10.4481)	438 TREE (37-129635) 345257.5600N/0794438.2300W (10.3786)					
438 TREE (37-129635) 345257.5600N/0794438.2300W (10.3786)	432 TREE (37-129130) 345258.3300N/0794440.5800W (10.3685)					
432 TREE (37-129130) 345258.3300N/0794440.5800W (10.3685)	437 TREE (37-129204) 345258.1400N/0794438.1900W (10.3267)					
437 TREE (37-129204) 345258.1400N/0794438.1900W (10.3267)	446 TREE (37-130300) 345257.6600N/0794434.0000W (10.2279)					
446 TREE (37-130300) 345257.6600N/0794434.0000W (10.2279)	442 TREE (37-128552) 345257.3300N/0794436.2600W (10.093)					
442 TREE (37-128552) 345257.3300N/0794436.2600W (10.093)	441 TREE (37-130239) 345258.0900N/0794436.0500W (10.0251)					
441 TREE (37-130239) 345258.0900N/0794436.0500W (10.0251)	442 TREE (37-129200) 345256.9300N/0794436.5700W (9.9951)					
442 TREE (37-129200) 345256.9300N/0794436.5700W (9.9951)	437 TREE (37-128527) 345257.6100N/0794438.4500W (9.9003)					
437 TREE (37-128527) 345257.6100N/0794438.4500W (9.9003)	439 TREE (37-130804) 345258.6400N/0794436.5000W (9.8848)					
439 TREE (37-130804) 345258.6400N/0794436.5000W (9.8848)	440 TREE (37-130973) 345258.3200N/0794436.1700W (9.6685)					
440 TREE (37-130973) 345258.3200N/0794436.1700W (9.6685)	436 TREE (37-128785) 345257.8000N/0794438.5800W (9.4926)					
436 TREE (37-128785) 345257.8000N/0794438.5800W (9.4926)	441 TREE (37-128759) 345257.0400N/0794436.7200W (9.4852)					
441 TREE (37-128759) 345257.0400N/0794436.7200W (9.4852)	440 TREE (37-130824) 345256.6100N/0794437.5400W (9.3383)					
440 TREE (37-130824) 345256.6100N/0794437.5400W (9.3383)	442 TREE (37-129547) 345257.6500N/0794435.5800W (9.3208)					
442 TREE (37-129547) 345257.6500N/0794435.5800W (9.3208)	437 TREE (37-129342) 345257.4400N/0794438.2900W (9.2843)					
437 TREE (37-129342) 345257.4400N/0794438.2900W (9.2843)	435 TREE (37-130802) 345258.0900N/0794438.4900W (8.8288)					
435 TREE (37-130802) 345258.0900N/0794438.4900W (8.8288)	429 TREE (37-131015) 345259.4300N/0794440.2900W (8.745)					





AIRPORT ID KRCZ	PROCEDURE NAME RNAV (GPS) RWY 32	AMDT NO. ORIG-E	CITY ROCKINGHAM	STATE NC	AIRPORT ELEVATION 358	FACILITY RNAV
429 TREE (37-131015) 345259.4300N/0794440.2900W (8.745)			445 TREE (37-131017) 345257.4300N/0794433.9200W (8.6632)			
445 TREE (37-131017) 345257.4300N/0794433.9200W (8.6632)			437 TREE (37-130015) 345257.2700N/0794438.0900W (8.5896)			
437 TREE (37-130015) 345257.2700N/0794438.0900W (8.5896)			437 TREE (37-130590) 345257.3100N/0794437.9700W (8.4242)			
437 TREE (37-130590) 345257.3100N/0794437.9700W (8.4242)			444 TREE (37-129256) 345257.3800N/0794434.2600W (8.244)			
444 TREE (37-129256) 345257.3800N/0794434.2600W (8.244)			438 TREE (37-129975) 345258.7000N/0794436.1200W (8.2429)			
438 TREE (37-129975) 345258.7000N/0794436.1200W (8.2429)			445 TREE (37-130454) 345257.4700N/0794433.6500W (8.2024)			
445 TREE (37-130454) 345257.4700N/0794433.6500W (8.2024)			439 TREE (37-128399) 345258.4200N/0794435.8100W (8.1368)			
439 TREE (37-128399) 345258.4200N/0794435.8100W (8.1368)			435 TREE (37-128782) 345258.5600N/0794437.6700W (8.0466)			
435 TREE (37-128782) 345258.5600N/0794437.6700W (8.0466)			434 TREE (37-129260) 345258.7600N/0794437.6300W (7.3219)			
434 TREE (37-129260) 345258.7600N/0794437.6300W (7.3219)			425 TREE (37-130272) 345259.4600N/0794441.4800W (7.1409)			
425 TREE (37-130272) 345259.4600N/0794441.4800W (7.1409)			433 TREE (37-130910) 345258.3000N/0794438.4400W (7.1022)			
433 TREE (37-130910) 345258.3000N/0794438.4400W (7.1022)			373 TRAVERSE_WAY (37-129391) 345313.9800N/0794454.6800W (6.834)			
373 TRAVERSE_WAY (37-129391) 345313.9800N/0794454.6800W (6.834)			434 TREE (37-128796) 345258.8600N/0794437.1700W (6.5933)			
434 TREE (37-128796) 345258.8600N/0794437.1700W (6.5933)			439 TREE (37-128622) 345257.2500N/0794436.0000W (6.4395)			
439 TREE (37-128622) 345257.2500N/0794436.0000W (6.4395)			433 TREE (37-130208) 345257.8900N/0794438.4700W (6.4354)			
433 TREE (37-130208) 345257.8900N/0794438.4700W (6.4354)			442 TREE (37-128915) 345257.7800N/0794433.9300W (6.3025)			
442 TREE (37-128915) 345257.7800N/0794433.9300W (6.3025)			441 TREE (37-130091) 345257.7100N/0794434.4800W (6.2614)			
441 TREE (37-130091) 345257.7100N/0794434.4800W (6.2614)			425 TREE (37-129920) 345259.7100N/0794440.7900W (6.2251)			
425 TREE (37-129920) 345259.7100N/0794440.7900W (6.2251)			428 TREE (37-129728) 345259.0600N/0794439.8100W (6.1449)			
428 TREE (37-129728) 345259.0600N/0794439.8100W (6.1449)			374 TRAVERSE_WAY (37-129805) 345313.4300N/0794454.2400W (5.9941)			
374 TRAVERSE_WAY (37-129805) 345313.4300N/0794454.2400W (5.9941)			443 TREE (37-128896) 345257.0200N/0794433.4600W (5.0317)			
443 TREE (37-128896) 345257.0200N/0794433.4600W (5.0317)			442 TREE (37-129917) 345257.2700N/0794433.7000W (4.9468)			
442 TREE (37-129917) 345257.2700N/0794433.7000W (4.9468)			425 TREE (37-130403) 345258.9400N/0794440.7100W (4.7044)			
425 TREE (37-130403) 345258.9400N/0794440.7100W (4.7044)			438 TREE (37-129238) 345257.6300N/0794435.2800W (4.6947)			
438 TREE (37-129238) 345257.6300N/0794435.2800W (4.6947)			427 TREE (37-129527) 345258.6900N/0794439.9100W (4.6867)			
427 TREE (37-129527) 345258.6900N/0794439.9100W (4.6867)			422 TREE (37-128904) 345259.7300N/0794441.5100W (4.678)			
422 TREE (37-128904) 345259.7300N/0794441.5100W (4.678)			410 TREE (37-130637) 345302.8700N/0794444.7500W (4.6158)			
410 TREE (37-130637) 345302.8700N/0794444.7500W (4.6158)			425 TREE (37-129819) 345259.1000N/0794440.4700W (4.5151)			
425 TREE (37-129819) 345259.1000N/0794440.4700W (4.5151)			423 TREE (37-130878) 345259.8600N/0794440.7600W (4.4316)			



AIRPORT ID KRCZ	PROCEDURE NAME RNAV (GPS) RWY 32	AMDT NO. ORIG-E	CITY ROCKINGHAM	STATE NC	AIRPORT ELEVATION 358	FACILITY RNAV
423 TREE (37-130878) 345259.8600N/0794440.7600W (4.4316)	441 TREE (37-128573) 345257.1800N/0794433.9900W (4.3584)					
441 TREE (37-128573) 345257.1800N/0794433.9900W (4.3584)	427 TREE (37-130314) 345258.3900N/0794439.9900W (4.3131)					
427 TREE (37-130314) 345258.3900N/0794439.9900W (4.3131)	374 TRAVERSE_WAY (37-128558) 345312.9100N/0794453.8200W (4.2467)					
374 TRAVERSE_WAY (37-128558) 345312.9100N/0794453.8200W (4.2467)	442 TREE (37-129453) 345256.8800N/0794433.6800W (4.2169)					
442 TREE (37-129453) 345256.8800N/0794433.6800W (4.2169)	422 TREE (37-129639) 345259.7000N/0794441.3000W (4.2114)					
422 TREE (37-129639) 345259.7000N/0794441.3000W (4.2114)	429 TREE (37-130018) 345257.8200N/0794439.2500W (3.8471)					
429 TREE (37-130018) 345257.8200N/0794439.2500W (3.8471)	421 TREE (37-130686) 345259.6500N/0794441.6300W (3.7726)					
421 TREE (37-130686) 345259.6500N/0794441.6300W (3.7726)	433 TREE (37-129650) 345257.1000N/0794437.8200W (3.757)					
433 TREE (37-129650) 345257.1000N/0794437.8200W (3.757)	439 TREE (37-129918) 345257.8200N/0794434.0600W (3.6293)					
439 TREE (37-129918) 345257.8200N/0794434.0600W (3.6293)	433 TREE (37-128495) 345257.2400N/0794437.5500W (3.4733)					
433 TREE (37-128495) 345257.2400N/0794437.5500W (3.4733)	364 TRAVERSE_WAY (37-129562) 345314.9200N/0794456.5800W (3.2387)					
364 TRAVERSE_WAY (37-129562) 345314.9200N/0794456.5800W (3.2387)	426 TREE (37-129954) 345258.2900N/0794439.9500W (3.0573)					
426 TREE (37-129954) 345258.2900N/0794439.9500W (3.0573)	432 TREE (37-128381) 345258.8500N/0794436.2900W (2.8431)					
432 TREE (37-128381) 345258.8500N/0794436.2900W (2.8431)	433 TREE (37-130395) 345256.8800N/0794437.4600W (2.6588)					
433 TREE (37-130395) 345256.8800N/0794437.4600W (2.6588)	374 TRAVERSE_WAY (37-128898) 345312.3900N/0794453.4100W (2.5189)					
374 TRAVERSE_WAY (37-128898) 345312.3900N/0794453.4100W (2.5189)	431 TREE (37-129640) 345256.0700N/0794439.0600W (2.3748)					
431 TREE (37-129640) 345256.0700N/0794439.0600W (2.3748)	364 TRAVERSE_WAY (37-128627) 345314.6000N/0794456.3800W (2.2784)					
364 TRAVERSE_WAY (37-128627) 345314.6000N/0794456.3800W (2.2784)	429 TREE (37-128786) 345258.9900N/0794437.3800W (2.2369)					
429 TREE (37-128786) 345258.9900N/0794437.3800W (2.2369)	437 TREE (37-129030) 345258.0300N/0794434.1600W (2.1979)					
437 TREE (37-129030) 345258.0300N/0794434.1600W (2.1979)	427 TREE (37-129622) 345303.1100N/0794434.5300W (1.9203)					
427 TREE (37-129622) 345303.1100N/0794434.5300W (1.9203)	375 TRAVERSE_WAY (37-129597) 345311.7700N/0794452.9200W (1.4566)					
375 TRAVERSE_WAY (37-129597) 345311.7700N/0794452.9200W (1.4566)	364 TRAVERSE_WAY (37-128618) 345314.3100N/0794456.2100W (1.4304)					
364 TRAVERSE_WAY (37-128618) 345314.3100N/0794456.2100W (1.4304)	364 TRAVERSE_WAY (37-128441) 345314.2200N/0794456.1500W (1.1529)					
364 TRAVERSE_WAY (37-128441) 345314.2200N/0794456.1500W (1.1529)	430 TREE (37-130839) 345257.0000N/0794438.0900W (1.1116)					
430 TREE (37-130839) 345257.0000N/0794438.0900W (1.1116)	419 TREE (37-128942) 345300.2400N/0794440.7600W (1.1043)					
419 TREE (37-128942) 345300.2400N/0794440.7600W (1.1043)	428 TREE (37-130136) 345258.8500N/0794437.3500W (0.93)					
428 TREE (37-130136) 345258.8500N/0794437.3500W (0.93)	425 TREE (37-129317) 345303.0800N/0794434.8000W (0.3987)					
425 TREE (37-129317) 345303.0800N/0794434.8000W (0.3987)	439 TREE (37-128939) 345256.8200N/0794433.2900W (0.3429)					
439 TREE (37-128939) 345256.8200N/0794433.2900W (0.3429)	364 TRAVERSE_WAY (37-129875) 345313.8600N/0794455.9600W (0.1415)					



364 TRAVERSE\_WAY (37-129875) 345313.8600N/0794455.9600W (0.1415)

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.

INTERMEDIATE CONTROLLING OBSTACLE AND TERRAIN SAME FOR ALL SEGMENTS.

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1 SURFACE.

TREE HGT 100' PER FPT

TAA NOT DEVELOPED PER CHECKLIST

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<b>AIRPORT ID</b> KRCZ	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 32	<b>AMDT NO.</b> ORIG-E	<b>CITY</b> ROCKINGHAM	<b>STATE</b> NC	<b>AIRPORT ELEVATION</b> 358	<b>FACILITY</b> RNAV
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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	3.16
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.74
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	306.57
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	4.67
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	306.57
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD  
COORDINATES  
(IF STR-IN)

345315.88N/0794501.58W

ARP COORDINATES

345328.69N/0794534.55W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 32 DISTANCE 0.53 NM

FAF  
COORDINATES

345028.86N/0794028.26W

FIX NAME  
COORDINATES

REMARKS

THLD DISPLACED 201FT, ACTUAL COORDINATES: 345314.69N/0794459.64W.

QUALITY  
34  
CHECKED

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

Electronic Version

Page 16 of 17

PART E: PREPARED BY

<u>NAME</u> ANDRE MARSH	<u>OFFICE</u> AJV-A421	<u>DATE</u> 02/16/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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