

**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> 1B9	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 14	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MANSFIELD	<u>STATE</u> MA
<u>AIRPORT ELEVATION</u> 123	<u>TDZE</u> 121	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 14	<u>DATED</u> 06/12/2025	<u>MAG VAR</u> 16W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1995
				<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>
WOONS	IAF	FENIP		TF	FB	1.00	052.71	9.99	3000
WHYBE	IAF	FENIP		TF	FB	1.00	185.27	10.36	3000
HOTVU	IAF	FENIP		TF	FB	1.00	228.50	5.00	3000
FENIP	IF	STIME		TF	FB	1.00	138.47	4.99	2000
STIME	FAF	JOMGO/1.38 NM TO RW14		TF	FB	0.30	138.53	2.80	
JOMGO/1.38 NM TO RW14		RW14	MAP	TF	FO	0.30	138.53	1.38	
RW14	MAP	700 MSL		CA			138.53		700
700 MSL		BURDY		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 DIRECT BURDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT FENIP
- FAC: 138.53 FAF: STIME DIST FAF TO MAP: 4.18 DIST FAF TO THLD: 4.18
- MIN ALT: FENIP 3000, STIME 2000, JOMGO/1.38 NM TO RW14 780
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 365 HAT: 0.70 GS ANT: IM:
- MIN GP INCPT: 2000 GP ALT AT PFAF: STIME 2000 OM: MM: IM:
- GP ANGLE: 4.10 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: 60.0
- MSA FROM: RW14 2600



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.
 CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
 CHART NOTE: BARO-VNAV NA WHEN USING OWD ALTIMETER SETTING.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOONS ON V3 AND T224 SOUTHWEST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHYBE ON V1 AND T303 NORTHEAST BOUND.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 523 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 557 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.
 CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 14 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 192.02 INBOUND.
 CHART FAS OBST: 251 TREE (25-043818) 420101N/0711346W.
 WAAS CHANNEL # 90444
 REFERENCE PATH ID: W14A
 LTP HAE: 8 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	486	1	365	486	1	365		NA			NA					
LNAV/VNAV DA	520	1 1/8	399	520	1 1/8	399		NA			NA					
LNAV MDA	520	1	399	520	1	399		NA			NA					
CIRCLING	600	1	477	600	1	477		NA			NA					

CHANGES - REASONS

1. TERMINAL ROUTES, FENIP TO STIME: DELETED "PFAF" FROM "TO" FIX TYPE - NOT REQUIRED.
2. TERMINAL ROUTES, RW14 TO 700 MSL: DELETED 1.00 FROM RNP VALUE - NOT REQUIRED.
3. PROFILE LINE 5: CHANGED "395 HAT: 0.77" TO "365 HAT: 0.70" - DATA CORRECTION, LPV HAT IS UNCHANGED AT 365.
4. PROFILE LINE 7: CHANGED 20:1 FROM "CLEAR" TO "NOT CLEAR" - NEW 20:1 PENETRATIONS.
5. NOTES: CHANGED "RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - 20:1 PENETRATIONS.
6. NOTES: CHANGED "BARO-VNAV AND VDP NA WHEN USING OWD ALTIMETER SETTING" TO "BARO-VNAV NA WHEN USING OWD ALTIMETER SETTING" - VDP NO LONGER AUTHORIZED, 20:1 PENETRATIONS.
7. NOTES: CHANGED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 553 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE LNAV/VNAV DA TO 566 FEET AND ALL VISIBILITIES 1/4 SM, AND INCREASE ALL MDAS 40 FEET" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 523 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 557 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET" - NEW EVALUATION AND MINOR REFORMATTING.
8. NOTES: DELETED "PROCEDURE NA AT NIGHT" AND REPLACED WITH "STRAIGHT-IN AND CIRCLING RWY 14 NA AT NIGHT" - RWY 14 HAS 20:1 PENETRATIONS, BUT RWY 32 DOES NOT AND CAN STILL BE USED AT NIGHT.
9. ADDITIONAL FLIGHT DATA: DELETED "CHART VDP AT 0.78 NM TO RW14: - VDP NO LONGER AUTHORIZED, 20:1 PENETRATIONS.
10. ADDITIONAL FLIGHT DATA: DELETED "CHART CIRCLING ICON" - NO LONGER REQUIRED, IFP GROUP MEMO, REMOVAL OF CIRCLING ICONS.
11. MINIMUMS: LOWERED LNAV/VNAV DA/HAT FROM 529/408 TO 520/399 - DA LOWERED TO MATCH LNAV MDA, 8260.58D PARA 3-3-5 AND IFP GROUP MEMO, LOWERING LPV AND LNAV/VNAV MINIMUMS TO LNAV MINIMUMS.



AIRPORT ID
1B9

PROCEDURE NAME
RNAV (GPS) Z RWY 14

ORIGINAL/AMENDMENT
2

CITY
MANSFIELD

STATE
MA

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZBW, BOS APP CON, BDR FSS, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY
RICHARD BRUCE

OFFICE
AJV-A422

DATE
01/14/2026

APPROVED BY
BEV L BORDY

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	1B9
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	420006.7055N
LTP/FTP LONGITUDE	0711201.4320W
LTP/FTP ELLIPSOIDAL HEIGHT	+00080
FPAP LATITUDE	415918.6870N
FPAP LONGITUDE	0711020.7605W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	04.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1840
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 384268A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00368
FPAP ORTHOMETRIC HEIGHT	+00368



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

<u>AIRPORT ID</u> 1B9	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 14	<u>AMDT NO.</u> 2	<u>CITY</u> MANSFIELD	<u>STATE</u> MA	<u>AIRPORT ELEVATION</u> 123	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM WOONS **TO** FENIP

<u>RNP</u> 1.00	<u>DISTANCE</u> 9.99	<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
TOWER (44-000006)	415943.33N/0712651.96W	792	100	20	3C	1000				AT1208	3000
TERRAIN	415942.00N/0712706.00W	551 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM WHYBE **TO** FENIP

<u>RNP</u> 1.00	<u>DISTANCE</u> 10.36	<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
TOWER (25-000354)	421449.00N/0712526.00W	716	250	50	4D	1000				AT1284	3000
TERRAIN	421251.00N/0712636.00W	442 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:



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FACILITY
RNAV

INITIAL

FROM
HOTVU

TO
FENIP

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420354.00N/0712312.00W	637	215	8	4B	1000				AT1363	3000
TERRAIN	420557.00N/0712312.00W	400 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
FENIP

TO
STIME

RNP
1.00

DISTANCE
4.99

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420312.00N/0712324.00W	683	215	8	4B	500					1200
TERRAIN	420312.00N/0712327.00W	482 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:



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RNAV (GPS) Z RWY 14

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2

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AIRPORT ELEVATION
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FACILITY
RNAV

FINAL: LPV

FROM **TO**
STIME RW14

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
0.30 4.18 DA 365

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (25-045696)	420022.32N/0711227.08W	229	20	3	1A		24.88:1			MA89	486

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM **TO**
STIME RW14

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
0.30 4.18 DA 399

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	420051.00N/0711236.00W	242	215	8	4B		17.12:1			XP-9 AC8	520

COMPUTATIONS

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

SEGMENT REMARKS:

LNAV/VNAV, XP -9: DA LOWERED TO MATCH LNAV MDA, 8260.58D PARA 3-3-5 AND IFP GROUP MEMO, LOWERING LPV AND LNAV/VNAV MINIMUMS TO LNAV MINIMUMS.



AIRPORT ID
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FACILITY
RNAV

FINAL: LNAV

FROM
STIME

TO
JOMGO/1.38 NM TO RW14

RNP
0.30

DISTANCE
2.80

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420230.00N/0711518.00W	486	215	8	4B	250				RA40	780

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM
JOMGO/1.38 NM TO RW14

TO
RW14

RNP
0.30

DISTANCE
1.38

PAT

MAP
RW14

HAT
399

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (25-043818)	420100.93N/0711346.43W	251	20	3	1A	250					520

COMPUTATIONS

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

SEGMENT REMARKS:



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RNAV (GPS) Z RWY 14

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AIRPORT ELEVATION
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FACILITY
RNAV

MISSED APPROACH: LPV

FROM
DA **TO**
BURDY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
0.30-1.00 220

<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>
TREE (25-041139)	420021.83N/0711229.57W	226	20	3	1A		ASC				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

COMPUTATIONS

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**
BURDY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
0.30-1.00 378

<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				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:



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AMDT NO.
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RNAV

MISSED APPROACH: LNAV

FROM
RW14 **TO**
BURDY

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
420

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	415930.00N/0711315.00W	1.30	477	288	215	8	4B	300			600
CATEGORY B											
TOWER (25-024615)	415949.40N/0710914.30W	1.81	477	294	20	3	1A	300			600

CIRCLING REMARKS:

MSA

CENTER RW14 **RADIUS** 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (25-000622)	420310.71N/0714904.37W	293	27.8	1571	20	3	1A	1000			2600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BOS APP CON, BDR FSS, ZBW ARTCC



AIRPORT ID 1B9	PROCEDURE NAME RNAV (GPS) Z RWY 14	AMDT NO. 2	CITY MANSFIELD	STATE MA	AIRPORT ELEVATION 123	FACILITY RNAV
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WX SERVICE AWOS-3PT	LOCATION 1B9	HRS OPERATION 24	ALTIMETER SOURCE 1B9	DISTANCE	WMSCR Y	ADJUSTMENTS 0
BACK-UP WX SERVICE ASOS	LOCATION OWD	HRS OPERATION 24	ALTIMETER SOURCE OWD	DISTANCE 11.43	WMSCR Y	ADJUSTMENTS 37

WX REMARKS:
 RASS PRESSURE PATTERNS THE SAME.
 1B9 123, OWD 49.
 RA = 36.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW22		
RW04		
RW14 - MIRL (PCL)	BSC-G	
RW32 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	

GLIDESLOPE ANGLE 4.10	ELEV RWY THRESHOLD 120.6	TCH 60.0	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	509
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW -15C	CRITICAL HIGH +54C	ACT -15C	APT ISA +14.76C
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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 971 HIGH TEMP 1125.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 14, LPV, LNAV/VNAV, AND LNAV:
20:1	
215 TREE (25-044162) 420015.55N/0711222.17W (14.33)	181 TREE (25-037782) 420014.80N/0711212.59W (12.85)
215 TREE (25-047415) 420017.10N/0711221.54W (12.11)	218 TREE (25-037787) 420018.41N/0711221.86W (10.52)
191 TREE (25-046576) 420016.00N/0711215.52W (10.26)	226 TREE (25-037788) 420019.28N/0711223.77W (10.08)
219 TREE (25-040152) 420016.30N/0711224.57W (8.65)	181 TREE (25-047414) 420011.48N/0711217.06W (7.68)
202 TREE (25-044797) 420013.95N/0711222.67W (4.10)	190 TREE (25-043848) 420012.89N/0711220.19W (2.88)



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177 TREE (25-037783) 420015.06N/0711214.39W (2.42)	221 TREE (25-037790) 420016.89N/0711226.85W (1.79)
218 TREE (25-044163) 420017.43N/0711225.57W (1.39)	205 TREE (25-045738) 420015.00N/0711223.68W (1.03)
223 TREE (25-043843) 420019.20N/0711225.80W (0.84)	
FINAL TYPE	LPV, LNAV/VNAV, AND LNAV:
34:1	
224 TREE (25-042514) 420017.48N/0711227.86W (42.56)	229 TREE (25-045696) 420022.32N/0711227.08W (41.26)
222 TREE (25-047044) 420016.41N/0711228.51W (41.06)	222 TREE (25-037754) 420019.83N/0711226.94W (38.52)
222 TREE (25-037755) 420019.00N/0711227.95W (37.96)	220 TREE (25-037753) 420020.72N/0711225.44W (37.90)
225 TREE (25-037758) 420021.46N/0711228.12W (36.70)	222 TREE (25-037756) 420018.48N/0711229.99W (34.97)
222 TREE (25-045695) 420020.51N/0711228.29W (34.90)	226 TREE (25-041139) 420021.83N/0711229.57W (34.39)
224 TREE (25-045697) 420020.56N/0711229.90W (33.81)	219 TREE (25-044798) 420019.28N/0711228.59W (33.31)
224 TREE (25-045967) 420019.31N/0711231.38W (33.04)	210 TREE (25-037789) 420015.56N/0711227.17W (32.93)
219 TREE (25-037757) 420017.43N/0711230.99W (31.79)	198 TREE (25-041128) 420015.97N/0711221.56W (30.77)
197 TREE (25-040151) 420018.27N/0711220.18W (28.67)	195 TREE (25-037786) 420016.78N/0711220.87W (27.76)
192 TREE (25-037785) 420017.77N/0711218.91W (26.84)	219 TREE (25-044799) 420020.15N/0711231.68W (26.13)
200 TREE (25-042518) 420015.50N/0711225.61W (25.95)	183 TREE (25-045737) 420017.23N/0711216.91W (22.45)
217 TREE (25-044154) 420022.63N/0711230.57W (22.24)	222 TREE (25-041141) 420023.20N/0711233.73W (20.41)
219 TREE (25-041140) 420022.14N/0711233.55W (19.45)	216 TREE (25-040198) 420022.22N/0711232.08W (19.07)
213 TREE (25-037746) 420021.05N/0711231.94W (18.21)	215 TREE (25-037747) 420021.26N/0711232.85W (18.17)
210 TREE (25-037745) 420023.28N/0711228.72W (17.65)	178 TREE (25-045969) 420016.70N/0711217.30W (17.57)
179 TREE (25-037784) 420017.33N/0711217.61W (16.98)	181 TREE (25-050239) 420013.67N/0711221.83W (16.95)
213 TREE (25-045698) 420023.44N/0711232.67W (13.01)	214 TREE (25-045656) 420022.92N/0711234.14W (12.09)
220 TREE (25-037728) 420022.78N/0711238.40W (10.34)	220 TREE (25-045954) 420023.19N/0711239.15W (8.28)
216 TREE (25-037775) 420022.35N/0711238.87W (6.15)	208 TREE (25-047045) 420019.73N/0711237.10W (5.67)
206 TREE (25-043844) 420021.72N/0711234.95W (4.50)	208 TREE (25-037750) 420024.69N/0711233.56W (4.34)
201 TREE (25-046578) 420021.07N/0711233.94W (2.43)	221 TREE (25-045646) 420025.77N/0711240.63W (2.38)
163 TREE (25-046577) 420013.48N/0711220.97W (0.87)	

PENETRATIONS REMARKS:



AIRPORT ID
1B9

PROCEDURE NAME
RNAV (GPS) Z RWY 14

AMDT NO.
2

CITY
MANSFIELD

STATE
MA

AIRPORT ELEVATION
123

FACILITY
RNAV

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 - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 100 FT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 509 AAO 420309.00N/0711551.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.57
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	1.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	122.53
DISTANCE FROM	THLD	TO 1500FT POINT	300
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	3.78
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	1.76
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	122.53
			300

THRESHOLD COORDINATES (IF STR-IN)

420006.71N/0711201.43W

ARP COORDINATES

420003.17N/0711152.95W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 32 DISTANCE 0.37 NM

FAF COORDINATES

420221.64N/0711644.84W

FIX NAME COORDINATES

REMARKS

THLD DISPLACED 509FT, ACTUAL COORDINATES: 420009.41N/0711207.12W

PART E: PREPARED BY

NAME

RICHARD BRUCE

OFFICE

AJV-A422

DATE

01/14/2026

TITLE

AERONAUTICAL INFORMATION SPECIALIST

