

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> 1	<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SUPERSEDED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> 12/01/2022	<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	PFAF	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		1.00	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)
1. PT
2. PROFILE STARTS AT FENIP
3. FAC: 138.53 FAF: STIME PFAF: STIME DIST FAF TO MAP: 4.18 DIST FAF TO THLD: 4.18
4. MIN ALT: FENIP 3000, STIME 2000, JOMGO/1.38 NM TO RW14 780
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 395 HAT: 0.77 GS ANT: OM: MM: IM:
6. MIN GP INCPT: 2000 GP ALT AT PFAF: STIME 2000
7. GP ANGLE: 4.10 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 60.0
8. MSA FROM: RW14 2600

QUALITY
39
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.
CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHYBE ON V1 AND T303 NORTHEAST BOUND.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING OWD ALTIMETER SETTING.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: 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.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOONS ON V3 AND T224 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 192.02 INBOUND.
CHART FAS OBST: 251 TREE (25-043818) 420101N/0711346W.
CHART VDP AT 0.78 NM TO RW14.
WAAS CHANNEL # 90444
REFERENCE PATH ID: W14A
CHART CIRCLING ICON.
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	529	1 1/8	408	529	1 1/8	408		NA			NA				
LNAV MDA	520	1	399	520	1	399		NA			NA				
CIRCLING	600	1	477	600	1	477		NA			NA				



CHANGES - REASONS

1. CHANGED SEGMENTS STIME TO JOMGO DISTANCE FROM "2.89" TO "2.80" AND JOMGO TO RW14 FROM "1.28" TO "1.38" IN TERMINAL ROUTES -- FIX JOMGO RELOCATED.
2. CHANGED "JOMGO/1.28 NM TO RW14 740" TO "JOMGO/1.38 NM TO RW14 780" IN PROFILE LINE 4 -- FIX JOMGO RELOCATED; NEW CONTROLLING OBSTACLE.
3. CHANGED 20:1 FROM "IS NOT CLEAR" TO "IS CLEAR" IN PROFILE LINE 7 -- AIRPORT HAS REMOVED 20:1 OBSTACLES.
4. DELETED "CHART NOTE: PROCEDURE NA AT NIGHT" -- 20:1 OBSTACLES HAVE BEEN REMOVED.
5. CHANGED HELICOPTER VISIBILITY REDUCTION NOTE FROM "1 SM" TO "3/4 SM" -- AIRPORT HAS REMOVED 20:1 OBSTACLES.
6. DELETED "CHART NOTE: USE TAUNTON ALTIMETER SETTING" -- AIRPORT NOW HAS LOCAL ALTIMETER.
7. ADDED "CHART NOTE: 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" -- AIRPORT NOW HAS LOCAL ALTIMETER; OWD DESIGNATED AS SECONDARY ALTIMETER.
9. ADDED CHART NOTES "BARO-VNAV AND VDP NA WHEN USING OWD ALTIMETER SETTING" AND "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C" -- LNAV/VNAV AND VDP ADDED.
10. DELETED "CHART TAUNTON MUNI - KING FLD ASOS-3" IN ADDITIONAL FLIGHT DATA -- AIRPORT NOW HAS LOCAL ALTIMETER.
11. CHANGED CHART FAS OBST FROM "245 TREE (25-037723) 420059N/0711244W" TO "251 TREE (25-043818) 420101N/0711346W" -- NEW CONTROLLING OBSTACLE.
12. UNCHECKED NA AND ADDED "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" IN ALTERNATE MINIMUMS -- AIRPORT NOW HAS LOCAL ALTIMETER.
13. CHANGED LPV DA/HAT FROM "523/402" TO "486/365" AND VISIBILITY FROM "1 1/8" TO "1" -- REMOVED RA ADJUSTMENT; NEW CONTROLLING OBSTACLE.
14. ADDED LNAV/VNAV LINE OF MINIMA -- FPT REQUEST NOW THAT AIRPORT HAS LOCAL ALTIMETER.
15. CHANGED LNAV MDA/HAT FROM "540/419" TO "520/399" -- REMOVED RA ADJUSTMENT; NEW CONTROLLING OBSTACLE.
16. CHANGED CIRCLING CAT B MDA/HAA FROM "640/517" TO "600/477" -- REMOVED RA ADJUSTMENT.

4/9/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 9/5/24.

1. ADDED "CHART NOTE: PROCEDURE NA AT NIGHT" -- FAILED NIGHT EVALUATION.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

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

FLIGHT CHECKED BY

DAVIN CHRISTOPHER OBRIEN

Digitally signed by

ALLAN WILL

Apr 10, 2025

OFFICE

FIOG

DATE

03/19/2025

Digitally signed by

ALLAN WILL

Apr 10, 2025

OFFICE

AJV-A423

DATE

09/12/2024

DEVELOPED BY

ALLAN WILL (DANIEL C JOHNSEN)

Digitally signed by

ALLAN WILL

Apr 10, 2025

OFFICE

AJV-A423

DATE

TITLE

MANAGER

APPROVED BY

ALLAN WILL

QUALITY
39
CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	1	MANSFIELD	MA	123	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL
FROM
WOONS
TO
FENIP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	9.99										
<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 (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>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	10.36										
<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 (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:



INITIAL

FROM

HOTVU

TO

FENIP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.00										
<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>
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

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	4.99										
<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	420312.00N/0712324.00W	683	215	8	4B	500				AT817	2000
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:



FINAL: LPV

FROM

STIME

TO

RW14

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.18		DA				365				
<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 (25-045696)	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

STIME

TO

RW14

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.18		DA				408				
<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	420051.00N/0711236.00W	242	215	8	4B		17.12:1			AC8	529

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

STIME

TO

JOMGO/1.38 NM TO RW14

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	2.80										
<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	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:

QUALITY
39
CHECKED

FINAL: LNAV STEPDOWN

FROM

JOMGO/1.38 NM TO RW14

TO

RW14

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	1.38		RW14		399						
<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 (25-043818)	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:

MISSED APPROACH: LPV

FROM

DA

TO

BURDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
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				3000
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 0.30-1.00	DISTANCE	PAT	MAP		HAT		HMAS 387				
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:

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:



AIRPORT ID

1B9

PROCEDURE NAME

RNAV (GPS) Z RWY 14

AMDT NO.

1

CITY

MANSFIELD

STATE

MA

AIRPORT ELEVATION

123

FACILITY

RNAV

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

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	1B9	24	1B9	0.08	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	OWD	24	OWD	11.43	Y	37

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K1B9 123, KOWD 49
RA = 36.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
4.10	120.6	60.0				

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	509
ON CENTERLINE	X	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-15C	+54C	-15C	+14.76C

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	LPV, LNAV/VNAV, LNAV		
34:1			
224 TREE (25-042514) 420017.4800N/0711227.8600W (42.56)	229 TREE (25-045696) 420022.3200N/0711227.0800W (41.26)		
222 TREE (25-047044) 420016.4100N/0711228.5100W (41.06)	222 TREE (25-037754) 420019.8300N/0711226.9400W (38.51)		



AIRPORT ID 1B9	PROCEDURE NAME RNAV (GPS) Z RWY 14	AMDT NO. 1	CITY MANSFIELD	STATE MA	AIRPORT ELEVATION 123	FACILITY RNAV
222 TREE (25-037755) 420019.0000N/0711227.9500W (37.95)			220 TREE (25-037753) 420020.7200N/0711225.4400W (37.89)			
225 TREE (25-037758) 420021.4600N/0711228.1200W (36.69)			222 TREE (25-037756) 420018.4800N/0711229.9900W (34.97)			
222 TREE (25-045695) 420020.5100N/0711228.2900W (34.9)			226 TREE (25-041139) 420021.8300N/0711229.5700W (34.38)			
224 TREE (25-045697) 420020.5600N/0711229.9000W (33.8)			219 TREE (25-044798) 420019.2800N/0711228.5900W (33.31)			
224 TREE (25-045967) 420019.3100N/0711231.3800W (33.04)			210 TREE (25-037789) 420015.5600N/0711227.1700W (32.93)			
219 TREE (25-037757) 420017.4300N/0711230.9900W (31.78)			198 TREE (25-041128) 420015.9700N/0711221.5600W (30.77)			
197 TREE (25-040151) 420018.2700N/0711220.1800W (28.66)			195 TREE (25-037786) 420016.7800N/0711220.8700W (27.76)			
192 TREE (25-037785) 420017.7700N/0711218.9100W (26.84)			219 TREE (25-044799) 420020.1500N/0711231.6800W (26.13)			
200 TREE (25-042518) 420015.5000N/0711225.6100W (25.94)			183 TREE (25-045737) 420017.2300N/0711216.9100W (22.45)			
217 TREE (25-044154) 420022.6300N/0711230.5700W (22.23)			222 TREE (25-041141) 420023.2000N/0711233.7300W (20.4)			
219 TREE (25-041140) 420022.1400N/0711233.5500W (19.44)			216 TREE (25-040198) 420022.2200N/0711232.0800W (19.06)			
213 TREE (25-037746) 420021.0500N/0711231.9400W (18.2)			215 TREE (25-037747) 420021.2600N/0711232.8500W (18.16)			
210 TREE (25-037745) 420023.2800N/0711228.7200W (17.65)			178 TREE (25-045969) 420016.7000N/0711217.3000W (17.57)			
179 TREE (25-037784) 420017.3300N/0711217.6100W (16.98)			181 TREE (25-050239) 420013.6700N/0711221.8300W (16.95)			
213 TREE (25-045698) 420023.4400N/0711232.6700W (13)			214 TREE (25-045656) 420022.9200N/0711234.1400W (12.09)			
220 TREE (25-037728) 420022.7800N/0711238.4000W (10.34)			220 TREE (25-045954) 420023.1900N/0711239.1500W (8.28)			
216 TREE (25-037775) 420022.3500N/0711238.8700W (6.15)			208 TREE (25-047045) 420019.7300N/0711237.1000W (5.66)			
206 TREE (25-043844) 420021.7200N/0711234.9500W (4.49)			208 TREE (25-037750) 420024.6900N/0711233.5600W (4.33)			
201 TREE (25-046578) 420021.0700N/0711233.9400W (2.43)			221 TREE (25-045646) 420025.7700N/0711240.6300W (2.37)			
163 TREE (25-046577) 420013.4800N/0711220.9700W (0.86)						
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.
VEGETATION HEIGHT 100 FEET PER FPT.
ORDER 8260.3 CHAPTER 2 APPLIED TO 502 AAO 420306.00N/0711551.00W.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> 1B9	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 14	<u>AMDT NO.</u> 1	<u>CITY</u> MANSFIELD	<u>STATE</u> MA	<u>AIRPORT ELEVATION</u> 123	<u>FACILITY</u> 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	2.57
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	122.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	3.78
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	122.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	300

THRESHOLD COORDINATES (IF STR-IN)420006.71N/0711201.43W

ARP COORDINATES420003.17N/0711152.95W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

FAF COORDINATES420221.64N/0711644.84W

FIX NAME COORDINATES

REMARKS

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

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ALLAN WILL (DANIEL C JOHNSEN)	AJV-A423	09/12/2024	AERONAUTICAL INFORMATION SPECIALIST

