

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**ILS STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.29**

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</u> MANSFIELD LAHM RGNL	<u>AIRPORT ID</u> KMFD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 17B	<u>CITY</u> MANSFIELD	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 1297	<u>TDZE</u> 1293	<u>SUPERSEDED</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 17A	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-MFD	<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>
MFD VORTAC		MANNS LOM/MFD VORTAC 9.05 DME					135.71	9.05	3000

**MISSED APPROACH**

**MAP:**  
ILS: DA  
LOC: 3.05 NM AFTER MANNS LOM/MFD VORTAC 9.05 DME OR AT ZIXAX/MFD VORTAC 6.02 DME FIX

**MISSED APPROACH INSTRUCTIONS:**  
CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT MFD VORTAC AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**  
CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MANNS LOM AND HOLD. (ADF REQUIRED).

**PROFILE:**

1. PT L SIDE OF COURSE 142.95 OUTBOUND 3000 FT WITHIN 10 MILES OF MANNS LOM (IAF)

2.

3. FAC: 322.95 FAF: MANNS LOM/MFD VORTAC 9.05 DME DIST FAF TO MAP: 3.05 DIST FAF TO THLD: 4.05

4. MIN ALT: MANNS LOM/MFD VORTAC 9.05 DME 2700

5. DIST TO THLD FROM OM: 4.05 MM: IM: 150 HAT: GS ANT: 839

6. MIN GS INCPT: 2700 GS ALT AT FAF : OM: 2640 MM: IM:

7. GP ANGLE: 3.00 34:1: 20:1: TCH: 46.2

8. MSA FROM: MF LOM 3000

**EQUIPMENT REQUIREMENTS NOTES:**

ADF OR DME.

**NOTES:**

CHART NOTE: FOR INOPERATIVE ALS INCREASE S-ILS 32 ALL CATS VISIBILITY TO 1 1/4 SM.



**ADDITIONAL FLIGHT DATA:**

CHART: ASR.

CHART CIRCLING ICON.

CHART IN PLANVIEW: (CFCHL) (404133N/0822121W).

FAS OBST: 1580 AAO 404620N/0822719W.

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE MANNS LOM/MFD VORTAC 9.05 DME, RT, 322.95 INBOUND.

HOLD NW, LT, 130.00 INBOUND

**MINIMUMS:****TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED; LOC: STANDARD - CAT D 800-2 1/4, NA WHEN CONTROL TOWER CLOSED.

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
S-ILS 32	1658	4000	365	1658	4000	365	1658	4000	365	1658	4000	365			
S-LOC 32	1840	4000	547	1840	4000	547	1840	6000	547	1840	6000	547			
CIRCLING	1840	1	543	1840	1	543	2000	2	703	2000	2 1/4	703			

**CHANGES - REASONS**

1. DELETE PROFILE NOTE ILS UNUSABLE FROM 1.0 NM INBOUND - TO CANCEL NOTAM 8/0623.

2. REMOVED RADAR FROM EQUIPMENT REQUIREMENTS NOTE - CAN ENTER THE PROCEDURE FROM THE MFD FEEDER.

**COORDINATED WITH:****A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, MFD ATCT, MFD APP CON, AMGR**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED**OFFICE** *Digitally signed by* **DATE****WARDELL HENNING**

Mar 12, 2019

**DEVELOPED BY**

WARDELL HENNING (ANDRE MARSH)

*Digitally signed by*  
**WARDELL HENNING**  
Mar 12, 2019**OFFICE**  
AJV-5432  
**DATE**  
12/05/2018**APPROVED BY**

PATRICK MULQUEEN

*Digitally signed by*  
**WARDELL HENNING**  
Mar 12, 2019**OFFICE**  
AJV-5430  
**DATE****TITLE**  
MANAGERQUALITY  
25  
CHECKED

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

<u>AIRPORT</u> MANSFIELD LAHM RGNL	<u>AIRPORT ID</u> KMFD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>AMDT NO.</u> 17B	<u>CITY</u> MANSFIELD	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1297	<u>FACILITY</u> I-MFD
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM MFD VORTAC TO MANNS LOM/MFD VORTAC 9.05 DME

<u>RNP</u>	<u>DISTANCE</u> 9.05	<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 (39-004203)	404301.30N/0823026.90W		1720	500	50	5D	1000					2800
2.TERRAIN	404415.00N/0823239.00W		1470 (1500)								AS1500	3000

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: PT

FROM 10 NM TO MANNS LOM/MFD VORTAC 9.05 DME

<u>RNP</u>	<u>DISTANCE</u> 10.00	<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 (39-001730)	404521.12N/0822520.47W		1729	500	50	5D	500				AT471	2700
4.TERRAIN	403718.00N/0822000.00W		1365 (1400)								AS1000	2400

COMPUTATIONS

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

SEGMENT REMARKS:



**FACILITY**  
I-MFD

RF CENTER FIX/DISTANCERF CENTER FIX/DISTANCE

QUALITY  
25  
CHECKED

PROCEDURE TURN

FROM

MANN'S LOM

TO

10 NM

<u>RNP</u>	<u>DISTANCE</u>	<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>
6.TOWER (39-003494)	404450.00N/0821854.00W		1820	500	125	5E	1000					2900
7.TERRAIN	404139.00N/0823212.00W		1483 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : ILS

FROM

DA

TO

MFD VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 1325					
<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				3000
8.AAO	405206.00N/0823527.00W		1421	164	98	4E	1000					2500
9.TERRAIN	405206.00N/0823527.00W		1221 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LOC

FROM

3.05 NM AFTER MANNS LOM/MFD VORTAC 9.05 DME OR AT ZIXAX/9.05 DME FIX

TO

MFD VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<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>
								ASC				3000
8.AAO	405206.00N/0823527.00W		1421	164	98	4E	1000					2500
9.TERRAIN	405206.00N/0823527.00W		1221 (1200)								AS1500	2700

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 ALTERNATE : ILS

FROM

DA

TO

MANNS LOM/MFD VORTAC 9.05 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 1325					
<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				3000
10.TOWER (39-002485)	404751.00N/0822205.00W		1650	250	50	4D	1000					2700
11.TERRAIN	404621.00N/0822724.00W		1378 (1400)								AS1500	2900

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 ALTERNATE : LOC

FROM

3.05 NM AFTER MANNS LOM/MFD VORTAC 9.05 DME OR AT ZIXAX/9.05 DME FIX

TO

MANNS LOM/MFD VORTAC 9.05 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
10.TOWER (39-002485)	404751.00N/0822205.00W	1650	250	50	4D	1000					2700
11.TERRAIN	404621.00N/0822724.00W	1378 (1400)								AS1500	2900

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
12.TOWER (39-000590)	404751.00N/0823035.00W	1.31	543	1449	20	3	1A	300		SI	1840
CATEGORY B											
12.TOWER (39-000590)	404751.00N/0823035.00W	1.85	543	1449	20	3	1A	300		SI	1840
CATEGORY C											
13.TOWER (39-000400)	404614.00N/0823234.00W	2.91	703	1647	250	50	4D	300		AC50	2000
CATEGORY D											
13.TOWER (39-000400)	404614.00N/0823234.00W	3.81	703	1647	250	50	4D	300		AC50	2000

CIRCLING REMARKS:



<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (39-020129)	410430.29N/0822704.00W	005	18.5	1949	500	50	5D	1000			3000

ILS 365 FT HAT DERIVED FROM POSITIONING THE DA 1 NM FROM RWY THRESHOLD PER FLIGHT CHECK EVALUATION





QUALITY  
25  
CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
MANSFIELD LAHM RGNL	KMFD	ILS OR LOC RWY 32	17B	MANSFIELD	OH	1297	I-MFD

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FEET VEGETATION USED PER FPT CHECKLIST.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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<u>AIRPORT</u> MANSFIELD LAHM RGNL	<u>AIRPORT ID</u> KMFD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>AMDT NO.</u> 17B	<u>CITY</u> MANSFIELD	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1297	<u>FACILITY</u> I-MFD
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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	3.34
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.94
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	316.95
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1378
DISTANCE FROM	FAF	TO 1500FT POINT	7.0
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	5.90
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	316.95
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1385

THRESHOLD  
COORDINATES  
(IF STR-IN)

404854.14N/0823022.06W

ARP COORDINATES

404917.10N/0823059.90W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 14 DISTANCE 0.88 NM

FAF  
COORDINATES

404556.52N/0822643.90W

FIX NAME  
COORDINATES

REMARKS

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<u>AIRPORT</u> MANSFIELD LAHM RGNL	<u>AIRPORT ID</u> KMFD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>AMDT NO.</u> 17B	<u>CITY</u> MANSFIELD	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 1297	<u>FACILITY</u> I-MFD
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PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (ANDRE MARSH)	<u>OFFICE</u> AJV-5432	<u>DATE</u> 12/05/2018	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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