

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)  
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

| <u>CITY, STATE</u> | <u>AIRPORT</u> | <u>EFFECTIVE DATE</u> | <u>AMDT NO</u> |
|--------------------|----------------|-----------------------|----------------|
| CHOTEAU, MT        | CHOTEAU        | 12/05/2019            | 2              |

**TAKEOFF MINIMUMS:**

**RWY 5:** STANDARD.

**RWY 15:** STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 10700 OR 3000-3 FOR VCOA.

**RWY 23:** STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 10400 OR 3000-3 FOR VCOA.

**RWY 33:** STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 10300 OR 3000-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 5:** CLIMB ON HEADING 054.68 TO 5700 BEFORE TURNING WEST.

**RWY 15:** CLIMB ON HEADING 147.78 TO 5200 BEFORE TURNING RIGHT.

**RWY 33:** CLIMB ON HEADING 327.79 TO 5800 BEFORE TURNING LEFT.

**VISUAL CLIMB OVER AIRPORT:**

**RWY 15, 23, 33:** OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CHOTEAU AIRPORT AT OR ABOVE 6800 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 5:** FENCE BEGINNING 19 FT FROM DER, 226 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/3948 FT MSL. FENCE 35 FT FROM DER, 212 FT LEFT OF CENTERLINE, 12 FT AGL/3947 FT MSL. POLE 909 FT FROM DER, 537 FT LEFT OF CENTERLINE, 35 FT AGL/3967 FT MSL.

**NOTE: RWY 15:** FENCE BEGINNING 118 FT FROM DER, 494 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/3947 FT MSL.

ANTENNA 1208 FT FROM DER, 712 FT RIGHT OF CENTERLINE, 26 FT AGL/3981 FT MSL. TREE 1468 FT FROM DER, 688 FT RIGHT OF CENTERLINE, 4009 FT MSL. TREE 1589 FT FROM DER, 718 FT RIGHT OF CENTERLINE, 4011 FT MSL. TREE 1997 FT FROM DER, 461 FT RIGHT OF CENTERLINE, 4016 FT MSL. TREE 2417 FT FROM DER, 400 FT LEFT OF CENTERLINE, 4004 FT MSL.

**NOTE: RWY 23:** FENCE, TERRAIN BEGINNING 71 FT FROM DER, 218 FT RIGHT OF CENTERLINE, UP TO 7 FT AGL/3952 FT MSL. POLE 359 FT FROM DER, 588 FT RIGHT OF CENTERLINE, 34 FT AGL/3964 FT MSL.

**NOTE: RWY 33:** FENCE 11 FT FROM DER, 394 FT RIGHT OF CENTERLINE, 5 FT AGL/3942 FT MSL. WIND INDICATOR 99 FT FROM DER, 199 FT LEFT OF CENTERLINE, 13 FT AGL/3952 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 15:** 9515 MSL AAO 474842.00N/1124800.00W.

**RWY 23, 33:** 8718 FT MSL AAO 474924.00N/1124124.00W (CLIMB GRADIENT), 9515 FT MSL AAO 474842.00N/1124800.00W (CLIMB-TO ALTITUDE).

**VCOA:** OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 9515 MSL AAO 474842.00N/1124800.00W, VISUAL CLIMB AREA OBSTACLE: 4584 MSL AAO 474521.00N/1120945.00W.

**OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:** RWY 5, 15, 33: 8718 FT MSL AAO 474924.00N/1124124.00W.

**REMARKS:**

**RWY 15:** DEPARTURE PROCEDURE ROUTE/ALTITUDE USED TO REDUCE CG FROM 281 FPNM.

**RWY 33:** DEPARTURE PROCEDURE ROUTE/ALTITUDE USED TO REDUCE CG FROM 300 FPNM.

98 FT VERTICAL ACCURACY CODE (4E) ADJUSTMENT APPLIED TO ALL OBSTACLES EXCEPT VCOA VCA OBSTACLE.

**FLIGHT INSPECTED BY:**

JORDAN ROLIH

*Digitally signed by*  
**WARDELL HENNING**  
Oct 09, 2019

**OFFICE SYMBOL:**  
FICO

**DATE:**  
09/14/2019

**DEVELOPED BY:**

WARDELL HENNING (ANDRE MARSH)

*Digitally signed by*  
**WARDELL HENNING**  
Oct 09, 2019

**OFFICE SYMBOL:**  
AJV-A432

**DATE:**  
04/25/2019

**APPROVED BY:**

LONNIE EVERHART

*Digitally signed by*  
**WARDELL HENNING**  
Oct 09, 2019

**OFFICE SYMBOL:**  
AJV-A430

**DATE:**

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**CITY, STATE**  
CHOTEAU, MT

**AIRPORT**  
CHOTEAU

**EFFECTIVE DATE**  
12/05/2019

**AMDT NO**  
2

**REQUIRED EFFECTIVE DATE:**  
ROUTINE.

**COORDINATED WITH:**

| <u>A4A</u>               | <u>ALPA</u>                         | <u>AOPA</u>                         | <u>APA</u>               | <u>HAI</u>               | <u>NBAA</u>                         |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**OTHER:**

**CHANGES - REASONS:**

1. CHANGED RUNWAY NUMBERING FROM RWY 14/32 TO RWY 15/33 - MAGVAR CHANGE FROM 17E TO 12E.

2. CHANGED TAKEOFF MINIMUMS:

RWY 5 FROM "STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 11600 OR 2900-3 FOR CLIMB IN VISUAL CONDITIONS." TO "STANDARD" - NEW RUNWAY SURVEY ADDED AFTER LAST AMDT, 8260-46G TABLE 2-1-1 AND 8260-3D, CHAP 14.

RWY 14 FROM "STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 11500 OR 2900-3 FOR CLIMB IN VISUAL CONDITIONS." TO "RWY 15: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 10700 OR 3000-3 FOR VCOA." - NEW RUNWAY SURVEY ADDED AFTER LAST AMDT, 8260-46G TABLE 2-1-1 AND 8260-3D, CHAP 14.

RWY 23 FROM "STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 11800 OR 2900-3 FOR CLIMB IN VISUAL CONDITIONS." TO "STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 10400 OR 3000-3 FOR VCOA." - NEW RUNWAY SURVEY ADDED AFTER LAST AMDT, 8260-46G TABLE 2-1-1 AND 8260-3D, CHAP 14.

RWY 32 FROM "STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 11800 OR 2900-3 FOR CLIMB IN VISUAL CONDITIONS." TO "RWY 33: STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 10300 OR 3000-3 FOR VCOA." - NEW RUNWAY SURVEY ADDED AFTER LAST AMDT, 8260-46G TABLE 2-1-1 AND 8260-3D, CHAP 14.

3. ADDED TEXTUAL DEPARTURE PROCEDURE "RWY 5: CLIMB HEADING 054.68 TO 5700 BEFORE TURNING WEST. RWY 15: CLIMB ON HEADING 147.78 TO 5200 BEFORE TURNING RIGHT. RWY 33: CLIMB ON HEADING 327.79 TO 5800 BEFORE TURNING LEFT." - ALLOW FOR STANDARD MINIMUMS FOR RWY 5 AND ALLOW FOR LOWER CLIMB GRADIENTS FOR RWYS 15, 33.

4. CHANGED VISUAL CLIMB OVER AIRPORT INSTRUCTIONS FROM "RWY 5, 14, 23, 32, FOR CLIMB IN VISUAL CONDITIONS CROSS CHOTEAU AIRPORT AT OR ABOVE 6700 BEFORE PROCEEDING ON COURSE", TO "RWY 15, 23, 33: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CHOTEAU AIRPORT AT OR ABOVE 6800 BEFORE PROCEEDING ON COURSE." - IAW 8260.46G TABLE 2-1-1 & APPDX D #8 AND 9/TARGETS .6.0 EVALUATION.

5. UPDATED TAKEOFF OBSTACLE NOTES - IAW 8260-46G, APPENDIX D, PARA. 10.

6. UPDATED CONTROLLING OBSTACLES FOR RWY 14, 23, 32: FROM "9592' MSL AAO 474844.22N/1124800.92W. 8780' MSL AAO 474923.57N/1124120.22W." TO RWY 15, 23, 33: "9515 MSL AAO 474842.00N/1124800.00W (CGTA), 8718 AAO MSL 474924.00N/1124124.00W (CG)." - NEW DEPARTURE CRITERIA AND EVALUATION METHOD IN THE 8260.3D AND TARGETS 5.6.0 EVALUATION.

7. UPDATED VCOA CONTROLLING OBSTACLES: FROM "9592' MSL AAO 474844.22N/1124800.92W. 4597' MSL AAO 474621.51N/1120947.60W." TO OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: "9515 MSL AAO 474842.00N/1124800.00W, VISUAL CLIMB AREA OBSTACLE: 4584 MSL AAO 474521.00N/1120945.00W." - IAW 8260.46G, APPENDIX D, PARA. 11(D) AND NEW VCOA EVALUATION IN TARGETS 5.6.0.

8. ADDED OBSTACLES MANDATING ODP ROUTE DEVELOPMENT FOR RWY'S 5, 15 AND 33 - APPLIED TO ALLOW STANDARD MINIMUMS FOR RWY 5 AND TO LOWER CLIMB GRADIENTS FOR RWY 15 & 33 - 8260.46G TABLE 2-1-1 & APPDX D, SECTION 1 #11.

9. ADDED TO REMARKS: ACCURACY CODE ADJUSTMENTS APPLIED TO OBSTACLES - TARGETS DERIVED OBSTACLES APPLIED 98' VERTICAL

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ACCURACY CODE. - PROVIDED FOR FUTURE PERIODIC REVIEW/AMENDMENT USE.

10. ADDED TO REMARKS: RWY 15: DEPARTURE PROCEDURE ROUTE/ALTITUDE USED TO REDUCE CG FROM 281 FPNM. RWY 33: DEPARTURE PROCEDURE ROUTE/ALTITUDE USED TO REDUCE CG FROM 300 FPNM - PROVIDE INFORMATION ON WHY TEXTUAL DEPARTURE PROCEDURES WERE USED FOR RWY 15/33.

10/8/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 07/22/2019:

1. CHANGED STATE IDENTIFICATION FROM "MONTANA" TO "MT".

10/16/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 07/22/2019:

1. CHANGED STATE IDENTIFICATION FROM "MONTANA" TO "MT".

