

**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.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
BROKEN BOW, NE	BROKEN BOW MUNI/KEITH GLAZE FLD	5 DECEMBER 2019	4

**TAKEOFF MINIMUMS:**

**RWY 14:** 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 240 FT PER NM TO 3100.

**RWY 32:** STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 3000 OR 1100-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**RWY 32:** OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BROKEN BOW MUNI/KEITH GLAZE FIELD AT OR ABOVE 3500 FT BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 14:** VEHICLE ON ROAD 10 FT FROM DER, 487 FT RIGHT OF CENTERLINE, 2532 FT MSL.  
BUILDINGS BEGINNING 12 FT FROM DER, 463 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/2544 FT MSL.  
BUILDING 56 FT FROM DER, 512 FT LEFT OF CENTERLINE, 24 FT AGL/2549 FT MSL.  
BUILDING, GENERAL UTILITY POLE, POLE, TREE BEGINNING 202 FT FROM DER, 170 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/2572 FT MSL.  
TREE 1568 FT FROM DER, 20 FT LEFT OF CENTERLINE, 2575 FT MSL.  
TREE 1606 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 2573 FT MSL.  
TREE 1628 FT FROM DER, 107 FT LEFT OF CENTERLINE, 2576 FT MSL.  
TREE 1659 FT FROM DER, 21 FT LEFT OF CENTERLINE, 2579 FT MSL.  
BUILDING 2574 FT FROM DER, 567 FT RIGHT OF CENTERLINE, 66 FT AGL/2599 FT MSL.  
TREE 2831 FT FROM DER, 1243 FT RIGHT OF CENTERLINE, 2605 FT MSL.  
TOWER 2.2 NM FROM DER, 1858 FT RIGHT OF CENTERLINE, 305 FT AGL/2931 FT MSL.

**NOTE: RWY 32:** ELECTRICAL SYSTEMS BEGINNING 39 FT FROM DER, 71 FT LEFT OF CENTERLINE, UP TO 3 FT AGL/2548 FT MSL.  
ELECTRICAL SYSTEM 39 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 4 FT AGL/2550 FT MSL.  
POLE, FENCES, TREE BEGINNING 46 FT FROM DER, 325 FT RIGHT OF CENTERLINE, UP TO 12 FT AGL/2559 FT MSL.  
VEHICLE ON ROAD 191 FT FROM DER, 341 FT LEFT OF CENTERLINE, 2556 FT MSL.  
TREES, VEHICLE ON ROAD BEGINNING 760 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 2634 FT MSL.  
TREES BEGINNING 1256 FT FROM DER, 780 FT RIGHT OF CENTERLINE, UP TO 2627 FT MSL.  
TREE 2562 FT FROM DER, 1073 FT RIGHT OF CENTERLINE, 2654 FT MSL.  
TREE, TERRAIN BEGINNING 2707 FT FROM DER, 1216 FT LEFT OF CENTERLINE, UP TO 2642 FT MSL.  
TERRAIN 3558 FT FROM DER, 1398 FT LEFT OF CENTERLINE, 2651 FT MSL.  
TERRAIN 3790 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 2655 FT MSL.  
TERRAIN 4015 FT FROM DER, 1337 FT LEFT OF CENTERLINE, 2661 FT MSL.  
TREE, TERRAIN BEGINNING 4061 FT FROM DER, 1335 FT LEFT OF CENTERLINE, UP TO 2690 FT MSL.  
TERRAIN 4440 FT FROM DER, 1498 FT LEFT OF CENTERLINE, 2693 FT MSL.  
TERRAIN, TREE BEGINNING 4444 FT FROM DER, 1375 FT LEFT OF CENTERLINE, UP TO 2714 FT MSL.  
TERRAIN BEGINNING 5541 FT FROM DER, 1579 FT LEFT OF CENTERLINE, UP TO 2723 FT MSL.  
TERRAIN, TREE BEGINNING 5601 FT FROM DER, 1487 FT LEFT OF CENTERLINE, UP TO 2760 FT MSL.  
TERRAIN BEGINNING 1 NM FROM DER, 1760 FT LEFT OF CENTERLINE, UP TO 2764 FT MSL.  
TREE 1.4 NM FROM DER, 1375 FT RIGHT OF CENTERLINE, 2778 FT MSL.  
TREES BEGINNING 1.4 NM FROM DER, 1253 FT RIGHT OF CENTERLINE, UP TO 2788 FT MSL.  
TREE 1.4 NM FROM DER, 692 FT LEFT OF CENTERLINE, 2778 FT MSL.  
TERRAIN, TREES BEGINNING 1.4 NM FROM DER, 1525 FT RIGHT OF CENTERLINE, UP TO 2804 FT MSL.  
TERRAIN 1.5 NM FROM DER, 1354 FT LEFT OF CENTERLINE, 2794 FT MSL.  
TERRAIN BEGINNING 1.5 NM FROM DER, 1203 FT LEFT OF CENTERLINE, UP TO 2798 FT MSL.  
BUILDING, TERRAIN BEGINNING 1.5 NM FROM DER, 1476 FT LEFT OF CENTERLINE, UP TO 16 FT AGL/2816 FT MSL.  
TREES, TERRAIN BEGINNING 1.5 NM FROM DER, 948 FT LEFT OF CENTERLINE, UP TO 2827 FT MSL.  
TREE 1.6 NM FROM DER, 1173 FT LEFT OF CENTERLINE, 2830 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 14:** 2931 FT MSL TOWER 412348.26N/0993704.30W.

**RWY 32:** 2760 FT MSL TERRAIN 412706.09N/0993946.16W (CLIMB GRADIENT).  
2879 FT MSL TREE 412801.41N/0993912.45W (CLIMB-TO ALTITUDE).

**VISUAL CLIMB AREA OBSTACLE:** 3126 FT MSL WINDMILL 412705.87N/0993438.20W.



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**REMARKS:**

**FLIGHT INSPECTED BY:**

PATRICK NG

*Digitally signed by*

**ALLAN WILL**

Oct 10, 2019

**OFFICE SYMBOL:**

FICO

**DATE:**

10/09/19

**DEVELOPED BY:**

CASIMIR L. TABAKA (MICHAEL OLVERA)

*Digitally signed by*

**ALLAN WILL**

Oct 10, 2019

*Digitally signed by*

**ALLAN WILL**

Oct 10, 2019

**OFFICE SYMBOL:**

AJV-A422

**DATE:**

08/02/2019

**APPROVED BY:**

MARLON ROBINSON

**OFFICE SYMBOL:**

AJV-A420

**DATE:**

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A**

**ALPA**

**AOPA**

**APA**

**HAI**

**NBAA**

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**OTHER:**

ZDV, AMGR, NE STATE AERO

**CHANGES - REASONS:**

1. UPDATED TAKEOFF OBS NOTES - NEW SURVEY IN 2014 AND NEW EVALUATION IN TARGETS 5.6.0/DEPARTURE OBSTACLE GROUPER.
2. CHANGED RWY 32 TO MINIMUMS FROM "300-2 OR STANDARD WITH MINIMUM CLIMB OF 392 FT PER NM TO 3300" TO "STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 3000 OR 1100-3 FOR VCOA." - 8260.3D, CHAPTER 14, NEW SURVEY/TERRAIN AND MAP STUDY, AND EVALUATION IN TARGETS 5.6.0.
3. UPDATED RWY 32 CONTROLLING OBSTACLES - 8260.3D, CHAPTER 14, NEW SURVEY/TERRAIN & MAP STUDY, AND EVALUATION IN TARGETS 5.6.0.
4. ADDED VCOA TO RWY 32 - 8260.46G, TABLE 2-1-1/ALLOW AIRCRAFT TO DEPART RWY 32 WITHOUT A CLIMB GRADIENT.