

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.
BAY CITY, MI	JAMES CLEMENTS MUNI	12 DECEMBER 2013	6

**TAKEOFF MINIMUMS:**

WATERWAY 9, 13, 18, 27, 31, 36 NA – ENVIRONMENTAL  
RWY 5, 18, 23, 36 STANDARD

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 18: CLIMB HEADING 180.22 TO 2000 BEFORE TURNING LEFT.  
RWY 23: CLIMB HEADING 228.77 TO 1200 BEFORE TURNING LEFT.

**TAKEOFF OBSTACLE NOTES:**

**NOTE:** RWY 5, ROAD 260 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15 FT AGL/604 FT MSL.

TREE 1171 FT FROM DER, 277 FT LEFT OF CENTERLINE, 87 FT AGL/678 FT MSL.

**NOTE:** RWY 18, BUSHES BEGINNING 186 FT FROM DER, 151 FT RIGHT OF CENTERLINE, 6 FT AGL/596 FT MSL.

TREES BEGINNING 350 FT FROM DER, 200 FT LEFT OF CENTERLINE, 10 FT AGL/597 FT MSL.

TREES BEGINNING 1368 FT FROM DER, 59 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/673 FT MSL.

TREES BEGINNING 1768 FT FROM DER, 330 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/699 FT MSL.

TREES BEGINNING 2353 FT FROM DER, 127 FT LEFT OF CENTERLINE, UP TO 110 FT AGL/680 FT MSL.

**NOTE:** RWY 23, TREES 1120 FT FROM DER, 130 FT RIGHT OF CENTERLINE, 40 FT AGL/624 FT MSL.

**NOTE:** RWY 36, TREES BEGINNING 103 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/621 FT MSL.

TREES BEGINNING 436 FT FROM DER, 162 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/681 FT MSL.

POLE 538 FT FROM DER, 434 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/609 FT MSL.

TREES BEGINNING 1856 FT FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 87 FT AGL/681 FT MSL.

**CONTROLLING OBSTACLES:**

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 18/23 – 1627 FT MSL TOWER 432824.08N/0835040.89W  
1635 FT MSL TOWER 432814.00N/0835035.00W

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REMARKS:

FLIGHT INSPECTED BY:

JEFF RANDALL *Digitally signed by Jill Olson* FIOG

10/1/2013

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

ROBERT ABBOTT *Digitally signed by Jill Olson* AJV-353

5/13/2013

APPROVED BY:

DEBORAH COPELAND *Digitally signed by Jill Olson* AJV-353

10/17/2013

COORDINATED WITH:

AOPA, NBAA, SAGINAW ATCT, ZOB, AMGR

CHANGES:

1. WATERWAY 9/27 NA
2. ADD WATERWAY 9, 13, 18, 27, 31, 36 NA
3. CHANGE RWY 5, 18, 23 AND 36 TAKEOFF MINIMUMS TO STANDARD
4. REVISE DEPARTURE PROCEDURES
5. UPDATE RWY 5, 18, 23, 36 TAKEOFF OBSTACLE NOTES

REASONS:

1. RWY 9/27 IS A WATERWAY
2. ENVIRONMENTAL – NO WATERWAY OR OBSTACLE SURVEY DATA.
3. CRITERIA EVALUATION
4. CLEAR 1627 FT MSL AND 1635 FT MSL TOWERS
5. NGS ANA-LPV 08/31/2006 SURVEY OBSTACLE PENETRATIONS

