

**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>AIRPORT</u> | <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> | <u>AMDT NO</u> | <u>ACTUAL EFFECTIVE DATE</u> |
|----------------|-------------------|-------------|--------------|----------------|------------------------------|
| WILLOW RUN | KYIP | DETROIT | MI | 11 | |

TAKEOFF MINIMUMS:

RWY 5, 9, 23: STANDARD.

RWY 27: 300-1 3/8 OR STANDARD WITH A MINIMUM CLIMB OR 209 FEET PER NM TO 1000, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FEET PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FEET PRIOR TO DEPARTURE END OF RUNWAY.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5, ELECTRICAL SYSTEMS, BEGINNING 5 FT FROM DER, 56 FT RIGHT OF CENTERLINE, UP TO 3 FT AGL/703 FT MSL.

ELECTRICAL SYSTEM 5 FT FROM DER, 56 FT LEFT OF CENTERLINE, 3 FT AGL/703 FT MSL.

TRANSMISSION LINE 1070 FT FROM DER, 593 FT LEFT OF CENTERLINE, 34 FT AGL/731 FT MSL.

TRANSMISSION LINE 1180 FT FROM DER, 492 FT LEFT OF CENTERLINE, 36 FT AGL/732 FT MSL.

TREES 1406 FT FROM DER, 799 FT LEFT OF CENTERLINE, 42 FT AGL/741 FT MSL.

TREES 1593 FT FROM DER, 900 FT LEFT OF CENTERLINE, 764 FT MSL.

TREES BEGINNING 2193 FT FROM DER, 1037 FT RIGHT OF CENTERLINE, UP TO 69 FT AGL/762 FT MSL.

TREE 2344 FT FROM DER, 1076 FT LEFT OF CENTERLINE, 68 FT AGL/769 FT MSL.

NOTE: RWY 23, ELECTRICAL SYSTEM, SIGN BEGINNING 4 FT FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 3 FT AGL/716 FT MSL.

ELECTRICAL SYSTEM 5 FT FROM DER, 89 FT RIGHT OF CENTERLINE, 2 FT AGL/716 FT MSL.

SIGN 33 FT FROM DER, 501 FT RIGHT OF CENTERLINE, 3 FT AGL/717 FT MSL.

TREE 813 FT FROM DER, 702 FT LEFT OF CENTERLINE, 28 FT AGL/739 FT MSL.

ELECTRICAL SYSTEM 835 FT FROM DER, 3 FT RIGHT OF CENTERLINE, 24 FT AGL/738 FT MSL.

POLE 866 FT FROM DER, 710 FT LEFT OF CENTERLINE, 38 FT AGL/750 FT MSL.

TREE 1360 FT FROM DER, 763 FT RIGHT OF CENTERLINE, 54 FT AGL/751 FT MSL.

TREE 1406 FT FROM DER, 817 FT RIGHT OF CENTERLINE, 49 FT AGL/761 FT MSL.

TREE 1760 FT FROM DER, 883 FT LEFT OF CENTERLINE, 56 FT AGL/761 FT MSL.

TREES BEGINNING 1785 FT FROM DER, 975 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/774 FT MSL.

TREE 2137 FT FROM DER, 916 FT LEFT OF CENTERLINE, 75 FT AGL/775 FT MSL.

TREES BEGINNING 2378 FT FROM DER, 924 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/784 FT MSL.

TREES BEGINNING 2422 FT FROM DER, 607 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/790 FT MSL.

NOTE: RWY 27, TERRAIN 468 FT FROM DER, 545 FT LEFT OF CENTERLINE, 729 FT MSL.

TREE 706 FT FROM DER, 624 FT RIGHT OF CENTERLINE, 16 FT AGL/734 FT MSL.

TREES BEGINNING 713 FT FROM DER, 491 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/739 FT MSL.

POLE 1221 FT FROM DER, 424 FT LEFT OF CENTERLINE, 43 FT AGL/760 FT MSL.

POLE BEGINNING 1534 FT FROM DER, 412 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/770 FT MSL.

POLE 1558 FT FROM DER, 418 FT LEFT OF CENTERLINE, 54 FT AGL/772 FT MSL.

TREE 2869 FT FROM DER, 984 FT RIGHT OF CENTERLINE, 75 FT AGL/794 FT MSL.

TREES BEGINNING 2910 FT FROM DER, 1006 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/795 FT MSL.

TRANSMISSION LINE 3709 FT FROM DER, 390 FT RIGHT OF CENTERLINE, 90 FT AGL/812 FT MSL.

TRANSMISSION LINES, CATENARIES BEGINNING 3961 FT FROM DER, 776 FT LEFT OF CENTERLINE, UP TO 101 FT AGL/825 FT MSL.

TREES BEGINNING 4001 FT FROM DER, 371 FT RIGHT OF CENTERLINE, UP TO 832 FT MSL.

TRANSMISSION LINE, TREES BEGINNING 4076 FT FROM DER, 119 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/830 FT MSL.

TREE 4397 FT FROM DER, 302 FT RIGHT OF CENTERLINE, 834 FT MSL.

TREE 4449 FT FROM DER, 523 FT RIGHT OF CENTERLINE, 835 FT MSL.

TREE 4486 FT FROM DER, 459 FT RIGHT OF CENTERLINE, 846 FT MSL.

TOWER 1.1 NM FROM DER, 469 FT LEFT OF CENTERLINE, 165 FT AGL/903 FT MSL.



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CONTROLLING OBSTACLES:

RWY 27: 903 FT MSL TOWER 421431.78N-0833411.47W

REMARKS:

FLIGHT INSPECTED BY *Digitally signed by*
 BRIAN P CARSON **DONALD H LANIER**
 Jan 04, 2022

OFFICE **DATE**
 FPO 12/30/2021

DEVELOPED BY *Digitally signed by*
 ERIC N. SUSKI **ERIC N SUSKI**
 Dec 15, 2021

OFFICE **DATE**
 AJVA-431 10/26/2021

APPROVED BY *Digitally signed by*
 LONNIE EVERHART **DONALD H LANIER**
 Jan 04, 2022

OFFICE **DATE** **TITLE**
 AJVA-430 MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:**DTW ATCT, YIP ATCT, ZOB, AMGR

CHANGES - REASONS:

1. REMOVED ALL REFERENCES TO RWY 5L/23R - RUNWAY DECOMMISSIONED.
2. CHANGED RUNWAYS 5R/23L TO 5/23 - SCOPE OF PROJECT, RWY 5L/23R DECOMMISSIONED.
3. UPDATED TAKE OFF OBSTACLE NOTES - NEW OBSTACLES/DATA.
4. RWY 27 VISIBILITY CHANGED FROM 1 1/2 TO 1 3/8 - UPDATED VALUE BASED ON CURRENT CRITERIA.

