



09295

## INSTRUMENT APPROACH PROCEDURE CHARTS



## IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

## NAME TAKE-OFF MINIMUMS

**ADRIAN, MI**

LENAWEE COUNTY (ADG)

ORIG 07130 (FAA)

TAKE-OFF MINIMUMS: **Rwys 11, 29**, NA-ATC.  
NOTE: **Rwy 5**, multiple trees beginning 1837' from departure end of runway, 149' left of centerline, up to 75' AGL/873' MSL. Multiple trees beginning 953' from departure end of runway, 146' right of centerline, up to 74' AGL/872' MSL. **Rwy 23**, tree 1231' from departure end of runway, 633' left of centerline, 55' AGL/849' MSL.

**ALLEGAN, MI**

PADGHAM FIELD (35D)

AMDT 1 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 29, 32**, 300-1.

## NAME TAKE-OFF MINIMUMS

**ALPENA, MI**

ALPENA COUNTY RGNL (APN)

ORIG 09015 (FAA)

NOTE: **Rwy 1**, tree 2293' from departure end of runway, 525' left of centerline, 100' AGL/749' MSL. **Rwy 7**, trees beginning 858' from departure end of runway, 567' right of centerline up to 100' AGL/774' MSL. Trees beginning 1059' from departure end of runway, 166' left of centerline up to 100' AGL/769' MSL. **Rwy 19**, trees beginning 1789' from departure end of runway, 270' left of centerline up to 100' AGL/779' MSL. Trees beginning 1049' from departure end of runway, 777' right of centerline up to 100' AGL/789' MSL. Vent on cable 44' from departure end of runway, 147' left of centerline up to 25' AGL/685' MSL. **Rwy 25**, trees beginning 652' from departure end of runway, 53' left of centerline up to 100' AGL/755' MSL. Trees beginning 1021' from departure end of runway, 275' right of centerline up to 100' AGL/751' MSL.

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**ANN ARBOR, MI**

ANN ARBOR MUNI (ARB)  
AMDT 8 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwys 12, 30**, NA-  
Environmental.

NOTE: **Rwy 6**, multiple trees beginning 442' from departure end of runway, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from departure end of runway, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from departure end of runway, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from departure end of runway, 351' left of centerline, 22' AGL/849' MSL. **Rwy 24**, multiple trees beginning 479' from departure end of runway, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from departure end of runway, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from departure end of runway, 475' right of centerline, 0' AGL/837' MSL.

**BAD AXE, MI**

HURON COUNTY MEMORIAL (BAX)  
AMDT 4 07354 (FAA)

NOTE: **Rwy 4**, vehicle on road 244' from departure end of runway, 531' left of centerline, 15' AGL/774' MSL. Tree 810' from departure end of runway, 43' left of centerline, 100' AGL/859' MSL. Vehicle on road 223' from departure end of runway, 470' right of centerline, 15' AGL/774' MSL. **Rwy 17**, vehicle on road 164' from departure end of runway, on centerline, 15' AGL/784' MSL. Bush 81' from departure end of runway, 497' right of centerline, 4' AGL/757' MSL. Railroad 695' from departure end of runway, 684' right of centerline, 23' AGL/792' MSL. Terrain beginning 222' from departure end of runway, 70' right of centerline, 0' AGL/757' MSL. Trees beginning 855' from departure end of runway, 392' right of centerline, up to 100' AGL/879' MSL. Pole 1135' from departure end of runway, 755' left of centerline, 35' AGL/798' MSL. Terrain beginning 44' from departure end of runway, 9' left of centerline, 0' AGL/765' MSL. Trees beginning 1693' from departure end of runway, 372' left of centerline, up to 100' AGL/859' MSL. **Rwy 22**, terrain beginning 3' from departure end of runway, 172' left of centerline, 0' AGL/765' MSL. Tree 2334' from departure end of runway, 422' left of centerline, 100' AGL/869' MSL. Terrain beginning 49' from departure end of runway, 165' right of centerline, 0' AGL/762' MSL. Railroad 41' from departure end of runway, 390' right of centerline, 23' AGL/782' MSL. **Rwy 35**, antenna on tower 355' from departure end of runway, 478' right of centerline, 34' AGL/793' MSL. Antenna 359' from departure end of runway, 477' right of centerline, 30' AGL/793' MSL. Vehicle on road 575' from departure end of runway, 412' right of centerline, 15' AGL/778' MSL. Trees beginning 1259' from departure end of runway, 53' right of centerline, up to 100' AGL/842' MSL. Trees beginning 1509' from departure end of runway, 375' left of centerline, up to 100' AGL/859' MSL. Tower 1085' from departure end of runway, 698' left of centerline, 63' AGL/822' MSL.

**BALDWIN, MI**

BALDWIN MUNI (7D3)  
ORIG 84075 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 9, 23, 27**, 300-1.

**BATTLE CREEK, MI**

W. K. KELLOGG (BTL)  
AMDT 2 91346 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, 300-1.  
DEPARTURE PROCEDURE: **Rwy 31**, climb runway heading to 1400 before turning.

**BAY CITY, MI**

JAMES CLEMENTS MUNI (3CM)  
AMDT 5 86128 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 18, 23, 27, 36**, 300-1.  
**Rwy 5**, 900-2.  
DEPARTURE PROCEDURE: **Rwys 23, 27, 36**, climb runway heading to 2100 before turning. **Rwy 9**, left turn climb heading 070° to 2100 before turning. **Rwy 5**, right turn climb heading 070° to 2100 before turning. **Rwy 18**, right turn climb heading 230° to 2100 before turning.

**BEAVER ISLAND, MI**

BEAVER ISLAND (SJJ)  
ORIG 98001 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.  
**Rwys 5, 14, 23, 32**, NA.

**BELLAIRE, MI**

ANTRIM COUNTY (ACB)  
AMDT 6 06215 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, 700-3 or std. w/ a min. climb of 417' per NM to 1500.  
DEPARTURE PROCEDURE: **Rwy 2**, climb heading 022° to 1200 before turning right. **Rwy 20**, climb heading 202° to 1300 before turning left.  
NOTE: **Rwy 2**, road 385' from departure end of runway, 528' right of centerline, 15' AGL/646' MSL. Multiple trees beginning 2535' from departure end of runway, 96' left of centerline, up to 100' AGL/884' MSL. Multiple trees beginning 406' from departure end of runway, 235' right of centerline, up to 100' AGL/1147' MSL. Tower 2.57 NM from departure end of runway, 3271' right of centerline, 168' AGL/1198' MSL.

**Rwy 20**, multiple trees beginning 64' from departure end of runway, 204' right of centerline up to 100' AGL/693' MSL. Multiple buildings and antenna on tower beginning 2641' from departure end of runway, 909' right of centerline, up to 121' AGL/721' MSL. Multiple trees beginning 125' from departure end of runway, 220' left of centerline, up to 100' AGL/720' MSL.

**BENTON HARBOR, MI**

SOUTHWEST MICHIGAN RGNL (BEH)  
AMDT 5 86212 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1 or std. with min. climb of 300' per NM to 1100. **Rwys 13, 18, 31, 36**, 300-1.  
DEPARTURE PROCEDURE: **Rwy 27**, climb runway heading to 1100 before turning.

**BERRIEN SPRINGS, MI**

ANDREW UNIVERSITY AIRPARK (C20)  
ORIG 03023 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 13, 21**, NA. **Rwy 31**, 700-1½ or std. with a min. climb of 260' per NM to 1500. NA at night.  
NOTE: **Rwy 31**, tower 6789' northeast of departure end of runway, 565' AGL/1224' MSL.

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**BIG RAPIDS, MI**

ROBEN-HOOD (RQB)  
AMDT 5 96116 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 27**, 300-1.

**BOYNE FALLS, MI**

BOYNE MOUNTAIN (BFA)  
AMDT 3 96340 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 1000-1. **Rwy 35**, 500-1.  
DEPARTURE PROCEDURE: **Rwys 17, 35**, climb runway heading to 2000 before turning.

**CADILLAC, MI**

WEXFORD COUNTY (CAD)  
AMDT 7 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA-  
Environmental.

DEPARTURE PROCEDURE: **Rwy 25**, climb heading 250° to 1800 before turning left.

NOTE: **Rwy 7**, trees beginning 783' from DER, 129' right of centerline, up to 53' AGL/1348' MSL. Trees beginning 849' from DER, 348' left of centerline, up to 74' AGL/1378' MSL. Poles beginning 1221' from DER, 596' left of centerline, up to 30' AGL/1336' MSL. Poles beginning 1228' from DER, 366' right of centerline, up to 38' AGL/1333' MSL. Train and tracks 1386' from DER, 819' left of centerline, 23' AGL/1335' MSL. **Rwy 25**, bush 14' from DER, 275' right of centerline, 10' AGL/1317' MSL. Vehicle and road 660' from DER, 623' left of centerline, 15' AGL/1327' MSL.

**CARO, MI**

TUSCOLA AREA (CFS)  
AMDT 1 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwys 12, 30**, NA-  
Environmental.

NOTE: **Rwy 5**, vehicle on highway 2163' from departure end of runway, 648' left of centerline, 17' AGL/786' MSL. Trees beginning 865' from departure end of runway, 248' right of centerline, up to 100' AGL/809' MSL. **Rwy 23**, trees beginning 990' from departure end of runway, 581' right of centerline, up to 100' AGL/789' MSL.

**CHARLEVOIX, MI**

CHARLEVOIX MUNI (CVX)  
AMDT 4 05020 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, N/A.

NOTES: **Rwy 9**, terrain beginning at departure end of runway, left and right of centerline up to 660' MSL. **Rwy 27**, terrain beginning at departure end of runway, left and right of centerline up to 693' MSL.

**CHARLOTTE, MI**

FITCH H. BEACH (FPK)  
AMDT 2 92065 (FAA)

TAKE-OFF MINIMUMS: **Rwys 2, 14, 20, 32**, 300-1.  
DEPARTURE PROCEDURE: **Rwy 20**, climb runway heading to 1500 before turning.

**CHEBOYGAN, MI**

CHEBOYGAN COUNTY (SLH)  
AMDT 3 86156 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 16**, 300-1.

**CLARE, MI**

CLARE MUNI (48D)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, 300-1.

**COLDWATER, MI**

BRANCH COUNTY MEMORIAL (OEB)  
AMDT 4 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 34**, NA-  
Environmental.

NOTE: **Rwy 4**, vehicles on road and trees beginning 5' from departure end of runway, 92' right of centerline, up to 100' AGL/1059' MSL. Vehicles on road and trees beginning 347' from departure end of runway, 317' left of centerline, up to 100' AGL/1,059' MSL. **Rwy 7**, trees beginning 1246' from departure end of runway, 430' left of centerline, up to 100' AGL/1059' MSL. Vehicles on road and trees beginning 154' from departure end of runway, 315' right of centerline, up to 100' AGL/1039' MSL. Pole 336' from departure end of runway, 274' right of centerline, 18' AGL/977' MSL. **Rwy 22**, trains on railroad and trees beginning 769' from departure end of runway, 986' left to 945' right of centerline, up to 100' AGL/1099' MSL. **Rwy 25**, vehicles on road and trees beginning 1171' from departure end of runway, 394' left of centerline, up to 100' AGL/1,059' MSL. Trees beginning 732' from departure end of runway, 95' right of centerline, up to 100' AGL/1034' MSL.

**DAVISON, MI**

ATHELONE WILLIAMS MEMORIAL (6G0)  
AMDT 2 97338 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1.

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**DETROIT, MI**

COLEMAN A. YOUNG MUNI (DET)  
AMDT 6 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-2 or std. w/ min. climb of 211' per NM to 1400, or alternatively, w/ standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1500' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 33**, climb heading 328° to 1800 before turning.

NOTE: **Rwy 7**, multiple trees beginning 232' from departure end of runway, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from departure end of runway, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from departure end of runway, 66' right of centerline, 50' AGL/671' MSL. Obstruction light on stack on building 566' from departure end of runway, 18' right of centerline, 50' AGL/671' MSL. Obstruction light on floodlight 622' from departure end of runway, 104' left of centerline, 41' AGL/668' MSL. Light standard 149' from departure end of runway, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from departure end of runway, 105' right of centerline, 33' AGL/654' MSL. Antenna on building 936' from departure end of runway, 84' right of centerline, 43' AGL/670' MSL. Obstruction light floodlight 909' from departure end of runway, 96' right of centerline, 41' AGL/668' MSL. Pole 466' from departure end of runway, 198' right of centerline, 30' AGL/654' MSL. Obstruction light on pole 132' from departure end of runway, on centerline, 16' AGL/637' MSL. **Rwy 15**, multiple trees beginning 589' from departure end of runway, 221' left of centerline, up to 69' AGL/683' MSL. Multiple trees beginning 299' from departure end of runway, 289' right of centerline, up to 52' AGL/679' MSL. Antenna on airport beacon 662' from departure end of runway, 667' left of centerline, 81' AGL/695' MSL. Pipe on obstruction light building 783' from departure end of runway, 597' left of centerline, 62' AGL/676' MSL. Obstruction light on building 1473' from departure end of runway, 556' right of centerline, 68' AGL/692' MSL. Tower 3376' from departure end of runway, 1118' right of centerline, 103' AGL/723' MSL. Antenna on building 803' from departure end of runway, 522' right of centerline, 35' AGL/656' MSL. Building 3749' from departure end of runway, 569' left of centerline, 114' AGL/723' MSL. Floodlight on building 1611' from departure end of runway, 657' left of centerline, 53' AGL/667' MSL. Rod on obstruction light building 450' from departure end of runway, 317' left of centerline, 20' AGL/637' MSL. **Rwy 25**, tower 2828' from departure end of runway, 1225' left of centerline, 141' AGL/770' MSL. Multiple trees beginning 909' from departure end of runway, 133' left of centerline, up to 76' AGL/703' MSL. Multiple trees beginning 334' from departure end of runway, 132' right of centerline, 58' AGL/685' MSL. Obstruction light on building 48' from departure end of runway, 240' left of centerline, 41' AGL/662' MSL. Railroad 1' from departure end of runway, 126' left of centerline, 29' AGL/650' MSL. Obstruction light on stack 454' from departure end of runway, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from departure end of runway, 40' left of centerline, 29' AGL/650' MSL. Obstruction light stack on building 949' from departure end of runway, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from departure end of runway, 12' left of centerline, 41' AGL/668' MSL. Light standard 701' from departure end of runway, 145' right of centerline, 26' AGL/653' MSL. Stack 9474' from departure end of runway, 2415' left of centerline, 241' AGL/872' MSL.

**COLEMAN A. YOUNG MUNI (CON'T)**

**Rwy 33**, multiple trees beginning 113' from departure end of runway, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from departure end of runway, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from departure end of runway, 379' left of centerline, 28' AGL/658' MSL.

**DETROIT, MI (CON'T)**

DETROIT METROPOLITAN/WAYNE COUNTY  
(DTW)

ORIG 06159 (FAA)

NOTE: **Rwy 3R**, headwall 399' from departure end of runway, 566' right of centerline, 17' AGL/647' MSL. **Rwy 4L**, multiple transmission towers 1516' from departure end of runway, 827' left of centerline, up to 60' AGL/690' MSL, multiple antennas 2751' from departure end of runway, 762' right of centerline, up to 84' AGL/714' MSL. **Rwy 4R**, antenna on building 3348' from departure end of runway, 1301' left of centerline, 100' AGL/736' MSL. **Rwy 9L**, multiple trees 968' to 2519' from departure end of runway, 462' left of centerline and 1173' right of centerline, up to 85' AGL/715' MSL. **Rwy 9R**, tree 1837' from departure end of runway, 947' right of centerline, 50' AGL/686' MSL. **Rwy 21L**, multiple trees 1079' to 3910' from departure end of runway, 586' left of centerline and 1188' right of centerline, up to 100' AGL/733' MSL. **Rwy 22L**, multiple trees 794' to 3694' from departure end of runway, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL. **Rwy 27R**, rod on ASR 4461' from departure end of runway, 464' left of centerline, 106' AGL/756' MSL.

**WILLOW RUN (YIP)**

AMDT 9 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27R**, 200-1½ or std. w/ min. climb of 206' per NM to 1000.

NOTE: **Rwy 5L**, multiple trees beginning 1438' to 2887' from departure end of runway, from 119' to 438' left of centerline, up to 79' AGL/785' MSL. **Rwy 5R**, multiple trees beginning 1877' to 2472' from departure end of runway, from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL. **Rwy 9R**, multiple trees beginning 827' to 2598' from departure end of runway, from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL. **Rwy 23L**, tree 1304' from departure end of runway, 438' right of centerline, 42' AGL/757' MSL. Tree 2457' from departure end of runway, 720' left of centerline, 66' AGL/781' MSL. **Rwy 23R**, multiple trees and road with vehicle beginning 587' to 1333' from departure end of runway, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL. **Rwy 27L**, multiple trees and poles beginning 1273' to 2024' from departure end of runway, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL. **Rwy 27R**, railroad and lights beginning 564' to 1565' from departure end of runway, from 4' to 333' left of centerline, up to 54' AGL/770' MSL. Tree and lights beginning 102' to 1257' from departure end of runway, from 10' to 485' right of centerline, up to 55' AGL/771' MSL. Tower 7161' from departure end of runway, 502' left of centerline, 162' AGL/900' MSL. **Rwy 32**, multiple trees and poles beginning 701' to 1884' from departure end of runway, from 78' to 750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from departure end of runway, from 126' to 475' right of centerline, up to 66' AGL/780' MSL.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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## DETROIT/GROSSE ILE, MI

GROSSE ILE MUNI (ONZ)

AMDT 4 97198 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 17, 22**, 300-1.**Rwy 35**, 800-2 or 300-1 with a min. climb of 210' per NM to 1400.

## DOWAGIAC, MI

DOWAGIAC MUNI (C91)

AMDT 4 80150 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 9, 22, 27**, 400-1.DEPARTURE PROCEDURE: **Rwys 4, 9, 22**, climb runway heading to 1500 before turning.

## DRUMMOND ISLAND, MI

DRUMMOND ISLAND (DRM)

ORIG 82301 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26, 18, 36**, 300-1.

## EAST TAWAS, MI

IOSCO COUNTY (6D9)

ORIG 81106 (FAA)

DEPARTURE PROCEDURE: **Rwys 8, 26**, climb runway heading to 1100 before turning.

## EATON RAPIDS, MI

SKYWAY ESTATES (60G)

ORIG 90235 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1.DEPARTURE PROCEDURE: **Rwys 8, 26**, climb runway heading to 2500 before turning.

## ESCANABA, MI

DELTA COUNTY (ESC)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 36**, 400-2½ or std. w/min. climb of 261' per NM to 1100.

NOTE: **Rwy 9**, vehicles on roadway at DER, 272' right of centerline, 15' AGL/607' MSL. Trees beginning 1013' from DER, 444' left of centerline, up to 100' AGL/690' MSL. Trees beginning 1185' from DER, 55' right of centerline, up to 100' AGL/690' MSL. **Rwy 18**, buildings 1' from DER, 480' right of centerline, up to 26' AGL/616' MSL. Fences 139' from DER, 402' right of centerline, up to 9' AGL/599' MSL. Pole 255' from DER, 563' right of centerline, 20' AGL/618' MSL. Trees beginning 329' from DER, 18' left of centerline, up to 100' AGL/664' MSL. Trees beginning 375' from DER, 19' right of centerline, up to 100' AGL/673' MSL. **Rwy 36**, tower 1.87 NM from DER, 2362' left of centerline, 293' AGL/915' MSL. Vehicles on roadway beginning 41' from DER, 40' right of centerline, 15' AGL/621' MSL. Trees beginning 349' from DER, 555' right of centerline, up to 100' AGL/697' MSL. Trees beginning 366' from DER, 2' left of centerline, up to 100' AGL/700' MSL.

## FLINT, MI

BISHOP INTL (FNT)

AMDT 5 02052 (FAA)

NOTE: **Rwy 18**, trees 1200' from departure end of runway, 500' right of centerline, 65' AGL/863' MSL.

## FRANKFORT, MI

FRANKFORT DOW MEMORIAL FIELD (FKS)

AMDT 2 97282 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 500-2 or std. with a min. climb of 360' per NM to 1300. **Rwy 33**, 300-2.DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading to 1500 before turning.

## GAYLORD, MI

GAYLORD RGNL (GLR)

ORIG 09127 (FAA)

NOTE: **Rwy 9**, trees beginning 917' from DER, 318' right of centerline, up to 57' AGL/1387' MSL. Trees beginning 918' from DER, 357' left of centerline, up to 79' AGL/1407' MSL. Ceilometer 166' from DER, 258' left of centerline, 4' AGL/1334' MSL. **Rwy 18**, powerline pylon 2125' from DER, 917' right of centerline, 79' AGL/1398' MSL. Bushes beginning 18' from DER, 255' left of centerline, up to 21' AGL/1338' MSL. **Rwy 27**, trees beginning 2870' from DER, 345' right of centerline, up to 83' AGL/1403' MSL. Tree 2906' from DER, 234' left of centerline, 75' AGL/1395' MSL. **Rwy 36**, trees and bush beginning 79' from DER, 191' left of centerline, up to 54' AGL/1374' MSL.

## GLADWIN, MI

CHARLES ZETTEL MEMORIAL (GDW)

AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, 600-2.**Rwy 33**, 500-2.

## GRAND HAVEN, MI

GRAND HAVEN MEMORIAL AIRPARK (3GM)

AMDT 4 83272 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.DEPARTURE PROCEDURE: **Rwys 9, 18, 27, 36**, climb runway heading to 1100 before turning.

## GRANDLEDGE, MI

ABRAMS MUNI (4D0)

AMDT 2 93147 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 27, 36**, 300-1 or std. with a min. climb of 300' per NM to 1200.

## GRAND RAPIDS, MI

GERALD R. FORD INTL (GRR)

AMDT 2 09183 (FAA)

NOTE: **Rwy 8L**, vehicle on road 20' from DER, 156' left of centerline, 15' AGL/794' MSL. Trees beginning 1419' from DER, 740' left of centerline, up to 100' AGL/859' MSL. **Rwy 17**, trees beginning 1382' from DER, 134' left of centerline, up to 100' AGL/929' MSL. Trees beginning 1389' from DER, 819' right of centerline, up to 100' AGL/899' MSL. **Rwy 26R**, terrain beginning 102' from DER, 381' right of centerline, up to 808' MSL. **Rwy 35**, vehicle on road 742' from DER, 675' left of centerline, up to 15' AGL/804' MSL. Trees beginning 2002' from DER, 715' left of centerline, up to 100' AGL/869' MSL. Trees beginning 1339' from DER, 7' right of centerline, up to 100' AGL/879' MSL.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

09295



## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**GRAYLING, MI**

GRAYLING AAF (GOV)  
AMDT 2 97198 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 5,14,23,32,300-1.**

**GREENVILLE, MI**

GREENVILLE MUNI (6D6)  
AMDT 2 02164 (FAA)  
TAKE-OFF MINIMUMS: **Rwy19, 300-1.**

**HANCOCK, MI**

HOUGHTON COUNTY MEMORIAL (CMX)  
AMDT 2 89208 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 25, 300-1.**  
DEPARTURE PROCEDURE: **Rwys 25, 31,** climb runway heading to 1500 before turning.

**HARBOR SPRINGS, MI**

HARBOR SPRINGS (MGN)  
AMDT 2 08073 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 28, 300-1½** or std. w/min. climb of 295' per NM to 2000.  
DEPARTURE PROCEDURE: **Rwy 10,** Climb heading 101° to 1400 before proceeding on course. **Rwy 28,** Climb heading 281° to 2000 before turning right.  
NOTE: **Rwy 10,** trees beginning abeam departure end of runway, 350' right of centerline, up to 100' AGL/788' MSL. Vehicle and road beginning 188' from departure end of runway, left to right of centerline, up to 15' AGL/736' MSL. Trees beginning 1671' from departure end of runway, 720' left of centerline, up to 100' AGL/821' MSL. **Rwy 28,** trees beginning abeam departure end of runway, 398' left of centerline, up to 100' AGL/723' MSL. Trees beginning abeam departure end of runway, 313' right of centerline, up to 100' AGL/936' MSL. Vehicle and road beginning abeam departure end of runway, left to right of centerline, up to 15' AGL/720' MSL.

**HASTINGS, MI**

HASTINGS (9D9)  
ADMT 4 95117 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 9,12,18,27, 300-1.**

**HILLSDALE, MI**

HILLSDALE MUNI (JYM)  
ORIG 97310 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 10, 300-1.**

**HOLLAND, MI**

TULIP CITY (BIV)  
AMDT 1 09183 (FAA)  
NOTE: **Rwy 8,** vehicles on road beginning 48' from DER, 500' right of centerline, up to 15' AGL/694' MSL. Trees beginning 1828' from DER, 829' left of centerline, up to 72' AGL/741' MSL. **Rwy 26,** vehicles on road beginning 86' from DER, 517' left of centerline, up to 15' AGL/714' MSL, pole 805' from DER, 475' left of centerline, 35' AGL/734' MSL, trees 1056' from DER, 468' left of centerline, up to 41' AGL/740' MSL.

**HOUGHTON LAKE, MI**

ROSCOMMON COUNTY-BLODGETT MEMORIAL (HTL)  
AMDT 1 07298 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 9, 200-1¼,** or std. w/min. climb of 237' per NM to 1400. **Rwys 18, 36,** NA-ATC.  
DEPARTURE PROCEDURE: **Rwy 27,** climb heading 274° to 2600 before turning south.  
NOTE: **Rwy 9,** multiple trees beginning 2330' from departure end of runway, on centerline, up to 71' AGL/1216' MSL. Multiple trees beginning 5927' from departure end of runway 275' left of centerline, up to 100' AGL/1299' MSL. Terrain beginning 31' from departure end of runway, 215' right of centerline, up to 0' AGL/1165' MSL. Terrain beginning 43' from departure end of runway, 84' left of centerline, up to 0' AGL/1162' MSL. **Rwy 27,** multiple trees beginning 791' from departure end of runway, on centerline, up to 90' AGL/1239' MSL. Fence and road beginning 323' from departure end of runway, on centerline, up to 15' AGL/1164' MSL. Terrain beginning 100' from departure end of runway, 171' right of centerline, up to 0' AGL/1165' MSL. Terrain beginning 112' from departure end of runway, 128' left of centerline, up to 0' AGL/1162' MSL.

**HOWELL, MI**

LIVINGSTON COUNTY SPENCER J. HARDY (OZW)  
AMDT 3 06215 (FAA)  
NOTE: **Rwy 31,** multiple trees and light pole beginning 138' from departure end of runway, 334' right of centerline, up to 88' AGL/1030' MSL. Multiple trees beginning 914' from departure end of runway, 483' left of centerline, up to 83' AGL/1012' MSL. **Rwy 13,** tree 1776' from departure end of runway, 696' right of centerline, 70' AGL/1009' MSL.

**IONIA, MI**

IONIA COUNTY (Y70)  
ORIG 83230 (FAA)  
DEPARTURE PROCEDURE: **Rwys 9, 18, 27, 36,** climb runway heading to 1400 before turning.

**IRON MOUNTAIN-KINGSFORD, MI**

FORD (IMT)  
AMDT 5 09071 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 13, 300-1** or std. w/min. climb of 590' per NM to 1400. **Rwy 31, 300-1½** or std. w/min. climb of 260' per NM to 1400.  
DEPARTURE PROCEDURE: **Rwy 1,** climb heading 010° to 1700 before turning right. **Rwy 13,** climb heading 134° to 1900 before turning left.  
NOTE: **Rwy 1,** trees and bushes beginning 526' from DER, 292' right of centerline, up to 79' AGL/1259' MSL. Antenna, trees and bushes beginning 378' from DER, 192' left of centerline, up to 76' AGL/1276' MSL. **Rwy 13,** tree 1276' from DER, 312' right of centerline, 88' AGL/1188' MSL. Trees and poles beginning 547' from DER, 100' left of centerline, up to 86' AGL/1306' MSL. **Rwy 19,** trees beginning 992' from DER, 245' right of centerline, up to 56' AGL/1192' MSL. Trees beginning 1229' from DER, 376' left of centerline, up to 48' AGL/1183' MSL. **Rwy 31,** trees 1711' from DER, 113' right of centerline, 66' AGL/1186' MSL. Bush 165' from DER, 161' right of centerline, 11' AGL/1131' MSL. Trees beginning 66' from DER, 182' left of centerline, up to 95' AGL/1315' MSL.

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**IRONWOOD, MI**

GOGEBIC-IRON COUNTY (IWD)  
AMDT 6 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 090° to 2300 before turning right. **Rwy 27**, climb heading 270° to 1700 before turning left.

NOTE: **Rwy 9**, trees beginning 61' from DER, 544' left of centerline, up to 31' AGL/1244' MSL. Tree 1853' from DER, 972' left of centerline, 100' AGL/1346' MSL.

**Rwy 27**, vehicle on road 287' from DER, 2' right of centerline, 15' AGL/1237' MSL. Tree 1946' from DER, 952' right of centerline, 69' AGL/1283' MSL. Tree 2817' from DER, 588' left of centerline, 74' AGL/1304' MSL.

**JACKSON, MI**

JACKSON COUNTY-REYNOLDS FIELD (JXN)  
AMDT 5 09295 (FAA)

NOTE: **Rwy 6**, antenna 3131' from DER, 1331' left of centerline, 75' AGL/1075' MSL. **Rwy 14**, tank 2617' from DER, 373' left of centerline, 107' AGL/1107' MSL.

Antenna 3102' from DER, 597' left of centerline, 111' AGL/1111' MSL. Trees beginning 1137' from DER, 8' left of centerline, up to 84' AGL/1083' MSL. Trees and poles beginning 518' from DER, 13' right of centerline, up to 114' AGL/1113' MSL. Road plus vehicle 541' from DER, 245' right of centerline, 15' AGL/1015' MSL.

**Rwy 24**, trees and poles beginning 367' from DER, 48' left of centerline, up to 80' AGL/1079' MSL. Buildings beginning 125' from DER, 372' left of centerline, 23' AGL/1022' MSL. Fence beginning 88' from DER, 247' right of centerline, 10' AGL/1002' MSL. Road plus vehicle 306' from DER, 3' right of centerline, 15' AGL/1007' MSL. Trees beginning 1231' from DER, 232' right of centerline, up to 62' AGL/1051' MSL. Localizer obstruction light 140' from DER, on centerline, 10' AGL/999' MSL. **Rwy 32**, trees and poles beginning 169' from DER, 69' left of centerline, up to 104' AGL/1093' MSL. Fence beginning 475' from DER, 148' left of centerline, up to 10' AGL/985' MSL. Trees beginning 94' from DER, 5' right of centerline, up to 103' AGL/1092' MSL. Fence beginning 278' from DER, 367' right of centerline, up to 10' AGL/999' MSL.

**KALAMAZOO, MI**

KALAMAZOO/BATTLE CREEK INTL (AZO)  
AMDT 9 07242 (FAA)

NOTE: **Rwy 5**, light pole 906' from departure end of runway, 511' left of centerline, 25' AGL/879' MSL. Multiple trees beginning 1433' from departure end of runway, 90' left of centerline, up to 65' AGL/914' MSL. Multiple towers beginning 2399' from departure end of runway, 331' right of centerline, up to 119' AGL/970' MSL. Multiple trees beginning 156' from departure end of runway, 163' right of centerline, up to 78' AGL/917' MSL. **Rwy 9**, multiple trees beginning 588' from departure end of runway, on centerline, up to 104' AGL/958' MSL. Antenna 2187' from departure end of runway, 222' right of centerline, 69' AGL/928' MSL. Tree 677' from departure end of runway, 214' right of centerline, 45' AGL/899' MSL. **Rwy 17**, railroad 587' from departure end of runway, 613' left of centerline, 17' AGL/885' MSL. Tree 691' from departure end of runway, 583' right of centerline, 57' AGL/894' MSL. **Rwy 23**, multiple trees beginning 937' from departure end of runway, 50' left of centerline, up to 72' AGL/956' MSL. Multiple poles and hangar beginning 22' from departure end of runway, 331' right of centerline, up to 24' AGL/905' MSL. Multiple trees beginning 943' from departure end of runway, 144' right of centerline, up to 107' AGL/986' MSL. **Rwy 27**, road 543' from departure end of runway, on centerline, 15' AGL/890' MSL. Multiple trees beginning 414' from departure end of runway, 292' left of centerline, up to 23' AGL/972' MSL. Multiple light poles and towers beginning 521' from departure end of runway, 18' right of centerline, up to 180' AGL/1015' MSL. Multiple trees beginning 1012' from departure end of runway, 23' right of centerline, up to 75' AGL/969' MSL. **Rwy 35**, multiple trees beginning 2319' from departure end of runway, 163' left of centerline, up to 75' AGL/934' MSL. Multiple trees beginning 1961' from departure end of runway, 753' right of centerline, up to 77' AGL/936' MSL.

**LAKEVIEW, MI**

LAKEVIEW AIRPORT-GRIFFITH FIELD (13C)  
ORIG 98281 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, 300-1 or std. with a min. climb of 400' per NM to 1200.

NOTE: **Rwy 9**, 1018' tree 50' from departure end of runway, 490' right of centerline.

**LAMBERTVILLE, MI**

TOLEDO SUBURBAN (DUH)  
AMDT 1 80360 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

**LANSING, MI**

CAPITAL CITY (LAN)  
AMDT 13 93147 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 10L, 24, 28R**, 300-1.

DEPARTURE PROCEDURE: **Rwys 10L, 10R**, climb runway heading to 2000 before turning south.

**Rwys 6, 24, 28L, 28R**, climb runway heading to 1500 before turning southeast.

**LAPEER, MI**

DUPONT-LAPEER (D95)  
AMDT 3 86156 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

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**LINDEN, MI**

PRICE'S (9G2)  
AMDT 4 98085 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 36**, NA.

**LUDINGTON, MI**

MASON COUNTY (LDM)  
AMDT 6 92233 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 1, 19, 26**, 300-1.

**MACKINAC ISLAND, MI**

MACKINAC ISLAND (MCD)  
AMDT 1 80164 (FAA)  
DEPARTURE PROCEDURE: **Rwy 8**, climb runway heading to 1100 before turning right.

**MASON, MI**

MASON JEWETT FIELD (TEW)  
AMDT 2 93035 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 9**, 300-1.

**MENOMINEE, MI**

MENOMINEE-MARINETTE TWIN COUNTY (MNM)  
AMDT 3 09239 (FAA)  
NOTE: **Rwy 3**, trees and bush beginning 196' from DER, 340' left of centerline, up to 100' AGL/719' MSL. Multiple trees beginning 1568' from DER, 702' right of centerline, up to 100' AGL/759' MSL. **Rwy 14**, multiple trees, poles, and building beginning 451' from DER, 85' left of centerline, up to 135' AGL/735' MSL. Multiple trees and pole beginning 651' from DER, 171' right of centerline, up to 100' AGL/704' MSL. **Rwy 21**, multiple trees beginning 932' from DER, 469' left of centerline, up to 77' AGL/677' MSL. Multiple trees beginning 1808' from DER, 701' right of centerline, up to 65' AGL/685' MSL. **Rwy 32**, multiple trees beginning 64' from DER, 71' left of centerline, up to 100' AGL/739' MSL. Multiple trees beginning 875' from DER, 15' right of centerline, up to 100' AGL/759' MSL.

**MIDLAND, MI**

JACK BARSTOW (IKW)  
ORIG 09183 (FAA)  
NOTE: **Rwy 6**, trees beginning 56' from DER, 493' right of centerline, up to 25' AGL/655' MSL. Trees beginning 920' from DER, 47' left of centerline, up to 20' AGL/660' MSL. Trees beginning 1144' from DER, from right to left of centerline, up to 100' AGL/754' MSL. Pole 1495' from DER, 331' right of centerline, 37' AGL/672' MSL. **Rwy 18**, trees beginning 339' from DER, 279' left of centerline, up to 100' AGL/729' MSL. Trees beginning 358' from DER, 306' right of centerline, up to 100' AGL/724' MSL. **Rwy 24**, vehicles on road beginning 225' from DER, from right to left of centerline, up to 15' AGL/634' MSL. Trees beginning 510' from DER, 103' right of centerline, up to 100' AGL/710' MSL. Trees beginning 787' from DER, 152' left of centerline, up to 100' AGL/709' MSL. **Rwy 36**, trees beginning 105' from DER, 200' right of centerline, up to 100' AGL/744' MSL. Trees beginning 147' from DER, 242' left of centerline, up to 100' AGL/729' MSL.

**MONROE, MI**

CUSTER (TTF)  
AMDT 6 08213  
NOTE: **Rwy 21**, Trees and light poles beginning 81' from departure end of runway, 9' right of centerline, up to 122' AGL/736' MSL. Trees and light poles beginning 243' from departure end of runway, 218' left of centerline, up to 98' AGL/707' MSL. Road and vehicle beginning 1954' from departure end of runway, on centerline, 15' AGL/626' MSL.

**MOUNT PLEASANT, MI**

MOUNT PLEASANT MUNI (MOP)  
AMDT 5 09239 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 5, 23**, NA-Environmental.  
NOTE: **Rwy 9**, trees beginning 420' from DER, 512' right of centerline, up to 86' AGL/845' MSL. Trees beginning 420' from DER, 266' left of centerline, up to 23' AGL/836' MSL. **Rwy 27**, trees beginning 1115' from DER, 39' right of centerline, up to 99' AGL/858' MSL. Trees beginning 1025' from DER, 3' left of centerline, up to 108' AGL/867' MSL.

**MUSKEGON, MI**

MUSKEGON COUNTY (MKG)  
AMDT 10 09015 (FAA)  
NOTE: **Rwy 6**, tree 1700' from departure end of runway, 600' right of centerline, 25' AGL/672' MSL. Multiple trees beginning 1980' from departure end of runway, 300' left of centerline, up to 75' AGL/709' MSL. **Rwy 14**, pole 1040' from departure end of runway, 700' left of centerline, 25' AGL/655' MSL. Multiple poles beginning 1500' from departure end of runway, 880' right of centerline, up to 50' AGL/677' MSL. Tree 1900' from departure end of runway, 940' left of centerline, 79' AGL/709' MSL. **Rwy 24**, bush 124' from departure end of runway, 480' left of centerline, 19' AGL/630' MSL. Tree 500' from departure end of runway, 300' right of centerline, 42' AGL/649' MSL. Tree 1210' from departure end of runway, 450' left of centerline, 42' AGL/653' MSL. Antenna 1220' from departure end of runway, 500' right of centerline, 43' AGL/654' MSL. Multiple trees beginning 2200' from departure end of runway, 50' left of centerline, up to 86' AGL/697' MSL. **Rwy 32**, tree 1040' from departure end of runway, 740' right of centerline, 65' AGL/659' MSL. Tree 1190' from departure end of runway, 500' left of centerline, 65' AGL/663' MSL. Tree 1270' from departure end of runway, 800' left of centerline, 89' AGL/690' MSL.

**NEW HUDSON, MI**

OAKLAND SOUTHWEST (Y47)  
AMDT 2 88350 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

**NILES, MI**

JERRY TYLER MEMORIAL (3TR)  
AMDT 5 85353 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 3, 14, 21, 32**, 300-1.  
DEPARTURE PROCEDURE: **Rwys 3, 14**, climb runway heading to 1400 before turning. **Rwy 21**, left turn climb heading 180° to 1400 before turning. **Rwy 32**, right turn climb heading 360° to 1400 before turning.

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**ONTONAGON, MI**

ONTONAGON COUNTY-SCHUSTER FIELD  
(OGM)  
AMDT 1 86072 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 17, 35**, 300-1.

**OSCODA, MI**

OSCODA-WURTHSMITH (OSC)  
ORIG 08157 (FAA)  
NOTE: **Rwy 6**, Trees beginning 3096' from departure end of runway, 967' left of centerline up to 100' AGL/719' MSL. **Rwy 24**, Trees beginning 2192' from departure end of runway, 578' right of centerline up to 100' AGL/739' MSL. Trees beginning 1415' from departure end of runway, 559' left of centerline, up to 100' AGL/739' MSL.

**OWOSSO, MI**

OWOSSO COMMUNITY (RNP)  
AMDT 4 08213 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 6, 18, 24, 36**, NA-Environmental.  
NOTE: **Rwy 10**, bush 187' from departure end of runway, 158' right of centerline, 3' AGL/742' MSL. Trees beginning 1136' from departure end of runway, 630' left of centerline, up to 75' AGL/814' MSL. Trees and pole beginning 1111' from departure end of runway, 596' right of centerline, up to 90' AGL/829' MSL. Powerline with towers beginning 2029' from departure end of runway, left and right of centerline, 90' AGL/829' MSL. **Rwy 28**, bush 212' from departure end of runway, 436' right of centerline, 11' AGL/741' MSL. Vent, trees, and a building beginning 266' from departure end of runway, 46' left of centerline, up to 100' AGL/836' MSL. Trees and a pole beginning 1184' from departure end of runway, 244' right of centerline, up to 60' AGL/815' MSL.

**PELLSTON, MI**

PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)  
AMDT 4 09183 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 23**, std. w/ a min. climb of 260' per NM to 1800, or 1000-2½ for climb in visual conditions. **Rwy 32**, std. w/ a min. climb of 290' per NM to 1100, or 1000-2½ for climb in visual conditions.  
DEPARTURE PROCEDURE: **Rwys 23, 32**, for climb in visual conditions: cross Pellston Rgnl airport of Emmet County at or above 1600.

NOTE: **Rwy 5**, vehicle on road 411' from DER, 588' left of centerline, 15' AGL/738' MSL. Trees beginning 1070' from DER, 12' left of centerline, up to 100' AGL/838' MSL. Railroad 810' from DER, 672' right of centerline, 23' AGL/744' MSL. Trees beginning 1001' from DER, 288' right of centerline, up to 100' AGL/821' MSL. **Rwy 14**, trees beginning 1290' from DER, 814' left of centerline, up to 100' AGL/805' MSL. **Rwy 23**, vehicle on road 14' from DER, 463' left of centerline, 15' AGL/720' MSL. Trees beginning 476' from DER, 53' left of centerline, up to 100' AGL/805' MSL. Trees beginning 953' from DER, 240' right of centerline, up to 100' AGL/820' MSL. Tree 2.97 NM from DER, 2771' right of centerline, 100' AGL/1297' MSL. **Rwy 32**, bush 107' from DER, 309' right of centerline, 4' AGL/722' MSL. Vehicle on road 1213' from DER, 809' right of centerline, 15' AGL/752' MSL. Terrain 2127' from DER, 715' right of centerline, 775' MSL. Trees beginning 4336' from DER, 315' right of centerline, up to 100' AGL/872' MSL. Trees beginning 1932' from DER, 20' left of centerline, up to 100' AGL/996' MSL.

**PLYMOUTH, MI**

CANTON-PLYMOUTH-METTETAL (1D2)  
TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.

**PONTIAC, MI**

OAKLAND COUNTY INTL (PTK)  
AMDT 5 09295 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA-Environmental.  
NOTE: **Rwy 9L**, hangars beginning 203' from DER, 511' left of centerline, up to 30' AGL/1000' MSL. **Rwy 9R**, multiple trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Antenna on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL. **Rwy 27L**, trees 452' from DER, 331' right of centerline, 23' AGL/1002' MSL. Vehicle on road 388' from DER, 15' right of centerline, 15' AGL/992' MSL. Multiple trees beginning 449' from DER, 60' left of centerline, up to 76' AGL/1046' MSL. **Rwy 27R**, multiple trees beginning 451' from DER, 2' right of centerline, up to 62' AGL/1041' MSL. Vehicle on road 416' from DER, 24' right of centerline, 15' AGL/992' MSL. Multiple trees beginning 387' from DER, 19' left of centerline, up to 36' AGL/1015' MSL.

**PORT HURON, MI**

ST. CLAIR COUNTY INTL (PHN)  
AMDT 5 96060 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 4, 10, 28**, 300-1.

**ROGERS CITY, MI**

PRESQUE ISLE COUNTY (PZQ)  
AMDT 1 86268 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

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## ROMEO, MI

ROMEO STATE (D98)

AMDT 4 08101 (FAA)

NOTE: **Rwy 18**, Vehicle on roadway 364' from departure end of runway, on centerline, 15' AGL/744' MSL. Trees beginning 1360' from departure end of runway, 854' left of centerline, up to 100' AGL/825' MSL. **Rwy 36**, Vehicle on roadway 579' from departure end of runway, on centerline, 15' AGL/759' MSL. Trees beginning 955' from departure end of runway, left and right of centerline, up to 100' AGL/845' MSL.

## SAGINAW, MI

MBS INTL (MBS)

ORIG 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway heading to 1100 before turning.

SAGINAW COUNTY H.W. BROWNE (HYX)

AMDT 7 86128 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 9, 23, 27**, 400-1.  
DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 2100 before turning North. **Rwys 23, 27**, climb runway heading to 2100 before turning Northeast. **Rwy 5**, right turn climb heading 090° to 2100 before turning North.

## SAULT STE MARIE, MI

CHIPPEWA COUNTY INTL (CIU)

ORIG 09295 (FAA)

NOTE: **Rwy 9**, buildings beginning 453' from DER, 519' right of centerline, up to 30' AGL/829' MSL. Building 723' from DER, 461' left of centerline, up to 30' AGL/829' MSL. Trees beginning 1838' from DER, 23' right of centerline, up to 100' AGL/899' MSL. **Rwy 16**, trees beginning 3645' from DER, extending from 1018' right of centerline to 1221' left of centerline, up to 100' AGL/899' MSL. **Rwy 27**, vehicle on road, 412' from DER, 510' left of centerline, up to 15' AGL/804' MSL. Trees beginning 520' from DER, extending from 581' left of centerline to 827' right of centerline, up to 100' AGL/879' MSL.

## SELFRIDGE ANGB (KMTC)

MT. CLEMENS, MI . . . . .AMDT 1, 09015

**Rwy 19\*****Rwy 1, 300-1¼\*\***

\* Standard with a CG of 260°/NM to 1600.

\*\* Or standard with CG of 280°/NM to 1000.

DEPARTURE PROCEDURE: **Rwy 19**, For climb in visual conditions: Ceiling 1300'/visibility 2½ SM, remain within 5.6 NM of KMTC airport, cross KMTC airport at or above 1700 before proceeding on course. Max airspeed 250 KIAS. **Rwy 1**, Standard with minimum climb of 280°/NM to 1000 or 300-1¼.

TAKE-OFF OBSTACLES: **Rwy 19**: Power poles 2274' from DER 38' right of centerline, 36' AGL/616' MSL. Trees 3310' from DER 929' right of centerline, 80' AGL/660' MSL. **Rwy 1**: Rising terrain 6' out to 237' from DER beginning 500' out to 563' left of centerline, up to 585' MSL (up to 6' above Thr). Fence from 68' out to 220' from DER beginning 341' to 523' right of centerline, 10' AGL/595' MSL. Trees starting 3043' out to 3099' from DER beginning 451' to 927' right of centerline, 80' AGL/660' MSL. Trees starting 2334' out to 3059' from DER beginning 1057' to 1105' left of centerline, 80' AGL/660' MSL. Vehicle 1560' from DER 427' left of centerline, 15' AGL/600' MSL. West bracket reflector 997' from DER 226' left of centerline, 15' AGL/592' MSL.

## SOUTH HAVEN, MI

SOUTH HAVEN AREA RGNL (LWA)

AMDT 2 91234 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 14, 32**, 300-1.

## SPARTA, MI

PAUL C. MILLER-SPARTA (8D4)

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

## STURGIS, MI

KIRSCH MUNI (IRS)

AMDT 2 96256 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6, 24**, 300-1.

## TECUMSEH, MI

MEYERS-DIVER'S (3TE)

AMDT 2 96004 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1.

## TRAVERSE CITY, MI

CHERRY CAPITAL (TVC)

AMDT 9 98169 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.

**Rwy 28**, 700-2 or std. with min. climb of 300' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 10, 18, 36**, climb runway heading to 2000 before proceeding on course.

**Rwy 28**, climbing left turn heading 240° to 2000 before proceeding on course.

## TROY, MI

OAKLAND/TROY (VLL)

AMDT 3 92289 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, 300-1.

DEPARTURE PROCEDURE: **Rwys 9, 27**, climb runway heading to 1200 before turning.

22 OCT 2009 to 19 NOV 2009

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**WEST BRANCH, MI**

WEST BRANCH COMMUNITY (Y31)

AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 27**, 500-2.

22 OCT 2009 to 19 NOV 2009

22 OCT 2009 to 19 NOV 2009

