

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

**A**NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	<b>600-2</b>	<b>800-2</b>
<b>A</b> Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	
US Military (USA/USN/USAF)	See Service Regulations	

**Note:** For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

**ADRIAN, MI**

LENAWEE COUNTY (ADG).....**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**

NA when local weather not available.

**ALMA, MI**

GRATIOT COMMUNITY (AMN).....**RNAV (GPS) Rwy 9**  
**RNAV (GPS) Rwy 27**

NA when local weather not available.

**ALPENA, MI**

ALPENA COUNTY RGNL (APN).....**ILS or LOC Rwy 1<sup>1</sup>**  
**RNAV (GPS) Rwy 1<sup>2</sup>**

<sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.

**ANN ARBOR, MI**

ANN ARBOR MUNI (ARB).....**RNAV (GPS) Rwy 6**  
**RNAV (GPS) Rwy 24**  
**VOR Rwy 6<sup>1</sup>**  
**VOR Rwy 24<sup>1</sup>**

NA when local weather not available.

<sup>1</sup>Category D, 900-2½.

NAME ALTERNATE MINIMUMS

**BAD AXE, MI**

HURON COUNTY MEML (BAX).....**RNAV (GPS) Rwy 4**  
**RNAV (GPS) Rwy 17**  
**RNAV (GPS) Rwy 22**  
**RNAV (GPS) Rwy 35**

NA when local weather not available.

**BATTLE CREEK, MI**

BATTLE CREEK EXEC AT KELLOGG FLD (BTL).....**ILS or LOC Rwy 23R<sup>1</sup>**  
**RNAV (GPS) Rwy 5L**  
**RNAV (GPS) Rwy 23R**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

**BEAVER ISLAND, MI**

BEAVER ISLAND (SJX).....**RNAV (GPS) Rwy 9**  
**RNAV (GPS) Rwy 27**

NA when local weather not available.

**BELLAIRE, MI**

ANTRIM COUNTY (ACB).....**RNAV (GPS) Rwy 2**

NA when local weather not available.  
Category C, 1000-2¾; Category D, 1100-3.

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NAME ALTERNATE MINIMUMS

**BENTON HARBOR, MI**

SOUTHWEST MICHIGAN  
 RGNL (BEH).....**RNAV (GPS) Rwy 10**  
**VOR Rwy 28**

Category D, 800-2¼.

**BIG RAPIDS, MI**

ROBEN-HOOD (RQB).....**RNAV (GPS) Rwy 27**  
 NA when local weather not available.  
 Category D, 900-2¾.

**CADILLAC, MI**

WEXFORD  
 COUNTY (CAD).....**RNAV (GPS) Rwy 7**  
**RNAV (GPS) Rwy 25**

NA when local weather not available.  
 Category D, 800-2¼.

**CHARLEVOIX, MI**

CHARLEVOIX  
 MUNI (CVX).....**RNAV (GPS) Rwy 9**  
**RNAV (GPS) Rwy 27**

NA when local weather not available.  
 Category D, 800-2¼.

**CHARLOTTE, MI**

FITCH H BEACH (FPK).....**RNAV (GPS) Rwy 21**  
 NA when local weather not available.

**CHEBOYGAN, MI**

CHEBOYGAN  
 COUNTY (SLH).....**RNAV (GPS) Rwy 10**  
**RNAV (GPS) Rwy 28**  
**VOR Rwy 10**

NA when local weather not available.

**COLDWATER, MI**

BRANCH COUNTY  
 MEML (OEB).....**RNAV (GPS) Rwy 7**  
**RNAV (GPS) Rwy 25**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**DETROIT, MI**

COLEMAN A YOUNG  
 MUNI (DET).....**ILS or LOC Rwy 15<sup>1</sup>**  
**ILS or LOC Rwy 33<sup>1</sup>**  
**RNAV (GPS) Rwy 15<sup>23</sup>**  
**RNAV (GPS) Rwy 33<sup>2</sup>**

<sup>1</sup>LOC, Category D, 900-2¾.  
<sup>2</sup>Category D, 900-2¾.  
<sup>3</sup>NA when local weather not available.

WILLOW

RUN (YIP).....**ILS or LOC Rwy 5<sup>1</sup>**  
**ILS or LOC Rwy 23<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>3</sup>**  
**RNAV (GPS) Rwy 9<sup>23</sup>**  
**RNAV (GPS) Rwy 23<sup>3</sup>**  
**VOR-A<sup>3</sup>**

<sup>1</sup>LOC, Category D, 800-2¼.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 800-2¼.

**DETROIT/GROSSE ILE, MI**

GROSSE ILE  
 MUNI (ONZ).....**NDB Rwy 4<sup>1</sup>**  
**RNAV (GPS) Rwy 4<sup>2</sup>**  
**RNAV (GPS) Rwy 22<sup>2</sup>**  
**VOR-A<sup>2</sup>**

NA when local weather not available.  
<sup>1</sup>Categories A, B, 1000-2; Category C, 1000-2¾;  
 Category D, 1000-3.  
<sup>2</sup>Categories A, B, 900-2; Category C, 900-2¾;  
 Category D, 900-2¾.

**ESCANABA, MI**

DELTA COUNTY (ESC).....**ILS or LOC Rwy 10<sup>1</sup>**  
**LOC BC Rwy 28<sup>2</sup>**  
**RNAV (GPS) Rwy 1<sup>4</sup>**  
**RNAV (GPS) Rwy 10<sup>2</sup>**  
**RNAV (GPS) Rwy 19<sup>2</sup>**  
**RNAV (GPS) Rwy 28<sup>2</sup>**  
**VOR Rwy 1<sup>2</sup>**

NA when local weather not available.  
<sup>1</sup>LOC, Category D, 900-2¾.  
<sup>2</sup>Category D, 900-2¾.

**FLINT, MI**

BISHOP  
 INTL (FNT).....**ILS or LOC Rwy 9<sup>12</sup>**  
**ILS or LOC Rwy 27<sup>12</sup>**  
**RNAV (GPS) Rwy 9<sup>3</sup>**  
**RNAV (GPS) Rwy 18<sup>34</sup>**  
**RNAV (GPS) Rwy 27<sup>3</sup>**  
**RNAV (GPS) Rwy 36<sup>3</sup>**  
**VOR Rwy 18<sup>3</sup>**  
**VOR Rwy 36<sup>3</sup>**

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category D, 800-2¼.  
<sup>3</sup>Category D, 800-2¼.  
<sup>4</sup>NA when local weather not available.

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**FRANKFORT, MI**

FRANKFORT DOW MEML  
FLD (FKS).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33

NA when local weather not available.  
Category B, 900-2; Category C, 900-2¾.

**FREMONT, MI**

FREMONT  
MUNI (FFX).....RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19

NA when local weather not available.  
Category D, 800-2¼.

**GAYLORD, MI**

GAYLORD RGNL (GLR).....RNAV (GPS) Rwy 9  
RNAV (GPS) Rwy 27  
VOR Rwy 27

Category D, 800-2½.  
NA when local weather not available.

**GRAND RAPIDS, MI**

GERALD R FORD  
INTL (GRR).....ILS or LOC Rwy 26L<sup>12</sup>  
ILS or LOC Rwy 35<sup>1</sup>  
RNAV (GPS) Rwy 8L<sup>2</sup>  
RNAV (GPS) Rwy 17<sup>2</sup>  
VOR Rwy 17<sup>2</sup>

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>NA when local weather not available.

**GRAYLING, MI**

GRAYLING AAF (GOV).....RNAV (GPS) Rwy 14  
NA when local weather not available.  
Category D, 900-2½.

**HANCOCK, MI**

HOUGHTON COUNTY  
MEML (CMX).....ILS or LOC Rwy 31<sup>1</sup>  
LOC BC Rwy 13<sup>3</sup>  
RNAV (GPS) Rwy 7<sup>23</sup>  
RNAV (GPS) Rwy 13<sup>24</sup>  
RNAV (GPS) Rwy 25<sup>24</sup>  
VOR Rwy 25<sup>23</sup>

<sup>1</sup>LOC, Category D, 800-2¼.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 800-2¼.  
<sup>4</sup>Category D, 900-2½.

**HARBOR SPRINGS, MI**

HARBOR  
SPRINGS (MGN).....RNAV (GPS) Rwy 10  
RNAV (GPS) Rwy 28

NA when local weather not available.  
Category B, 900-2.

NAME ALTERNATE MINIMUMS

**HOLLAND, MI**

WEST MICHIGAN  
RGNL (BIV).....RNAV (GPS) Rwy 8  
RNAV (GPS) Rwy 26

NA when local weather not available.

**HOUGHTON LAKE, MI**

ROSCOMMON COUNTY/BLODGETT  
MEML (HTL).....RNAV (GPS) Rwy 9  
RNAV (GPS) Rwy 27

NA when local weather not available.

**HOWELL, MI**

LIVINGSTON COUNTY SPENCER J  
HARDY (OZW).....RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31

NA when local weather not available.

**IONIA, MI**

IONIA COUNTY (Y70).....RNAV (GPS) Rwy 10  
RNAV (GPS) Rwy 28

NA when local weather not available.

**IRON MOUNTAIN-KINGSFORD, MI**

FORD (IMT).....LOC/DME BC Rwy 19  
RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19  
VOR Rwy 31

NA when local weather not available.

**IRONWOOD, MI**

GOGEBIC/IRON  
COUNTY (IWD).....RNAV (GPS) Rwy 9  
RNAV (GPS) Rwy 27  
VOR Rwy 9

NA when local weather not available.  
Categories A, B, 900-2; Categories C, D, 1000-3.

**JACKSON, MI**

JACKSON COUNTY/REYNOLDS  
FLD (JXN).....ILS or LOC Rwy 25<sup>1</sup>  
RNAV (GPS) Rwy 7  
RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 25  
RNAV (GPS) Rwy 32

NA when local weather not available.  
<sup>1</sup>NA when tower closed.

**KALAMAZOO, MI**

KALAMAZOO/BATTLE CREEK  
INTL (AZO).....RNAV (GPS) Rwy 17

NA when local weather not available.

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NAME ALTERNATE MINIMUMS

**LANSING, MI**

CAPITAL REGION  
 INTL (LAN).....**ILS or LOC Rwy 10R<sup>1</sup>**  
                                           **ILS or LOC Rwy 28L<sup>2</sup>**  
                                           **RNAV (GPS) Rwy 6<sup>3</sup>**  
                                           **RNAV (GPS) Rwy 10R<sup>3</sup>**  
                                           **RNAV (GPS) Rwy 24<sup>3</sup>**  
                                           **RNAV (GPS) Rwy 28L<sup>3</sup>**

<sup>1</sup>ILS, Category C, 800-2; Category D, 900-3;<sup>2</sup>LOC, Category D, 900-3.<sup>3</sup>LOC, Category D, 900-3.<sup>3</sup>Category D, 900-3.**LAPEER, MI**

DUPONT/LAPEER (D95).....**RNAV (GPS) Rwy 18**  
                                           **RNAV (GPS) Rwy 36**  
 NA when local weather not available.

**LUDINGTON, MI**

MASON COUNTY (LDM).....**RNAV (GPS) Rwy 8**  
                                           **RNAV (GPS) Rwy 26**  
 NA when local weather not available.  
 Category D, 900-2½.

**MACKINAC ISLAND, MI**

MACKINAC  
 ISLAND (MCD).....**RNAV (GPS) Rwy 8**  
                                           **RNAV (GPS) Rwy 26**  
                                           **VOR/DME-A**  
 NA when local weather not available.

**MANISTEE, MI**

MANISTEE COUNTY/  
 BLACKER (MBL).....**ILS or LOC Rwy 28<sup>1</sup>**  
                                           **RNAV (GPS) Rwy 10<sup>2</sup>**  
                                           **RNAV (GPS) Rwy 28<sup>2</sup>**

NA when local weather not available

<sup>1</sup>LOC, Category C, 800-2¼; Category D, 900-3.<sup>2</sup>Category C, 800-2¼; Category D, 900-2¾.**MANISTIQUE, MI**

SCHOOLCRAFT  
 COUNTY (ISQ).....**RNAV (GPS) Rwy 10**  
                                           **RNAV (GPS) Rwy 28**  
 NA when local weather not available.

**MARSHALL, MI**

BROOKS FLD (RMY).....**RNAV (GPS) Rwy 28**  
 NA when local weather not available.

**MASON, MI**

MASON JEWETT  
 FLD (TEW).....**RNAV (GPS) Rwy 10**  
                                           **RNAV (GPS) Rwy 28**  
 NA when local weather not available.

NAME ALTERNATE MINIMUMS

**MENOMINEE, MI**

MENOMINEE  
 RGNL (MNM).....**RNAV (GPS) Rwy 3**  
                                           **RNAV (GPS) Rwy 21**  
                                           **RNAV (GPS) Rwy 32**

NA when local weather not available.

Category D, 800-2½.

**MIDLAND, MI**

JACK BARSTOW (IKW).....**RNAV (GPS) Rwy 6**  
                                           **RNAV (GPS) Rwy 24**  
                                           **VOR-A**

NA when local weather not available.

**MONROE, MI**

CUSTER (TTF).....**RNAV (GPS) Rwy 3**  
                                           **RNAV (GPS) Rwy 21**

NA when local weather not available.

Category C, 800-2¼; Category D, 800-2½.

**MOUNT PLEASANT, MI**

MOUNT PLEASANT  
 MUNI (MOP).....**RNAV (GPS) Rwy 9**  
                                           **RNAV (GPS) Rwy 27**

NA when local weather not available.

Category D, 1000-3.

**MUSKEGON, MI**

MUSKEGON  
 COUNTY (MKG).....**ILS or LOC Rwy 24<sup>1</sup>**  
                                           **ILS or LOC Rwy 32<sup>1</sup>**  
                                           **RNAV (GPS) Rwy 6<sup>2</sup>**  
                                           **RNAV (GPS) Rwy 14<sup>2</sup>**  
                                           **RNAV (GPS) Rwy 24<sup>2</sup>**  
                                           **RNAV (GPS) Rwy 32<sup>2</sup>**

<sup>1</sup>NA when control tower closed.<sup>2</sup>NA when local weather not available.**NEWBERRY, MI**

LUCE  
 COUNTY (ERY).....**RNAV (GPS) Rwy 11**  
                                           **RNAV (GPS) Rwy 29**  
 NA when local weather not available.  
 Category D, 800-2¼.

**OWOSSO, MI**

OWOSSO  
 COMMUNITY (RNP).....**RNAV (GPS) Rwy 29**  
                                           **VOR/DME Rwy 29**  
 NA when local weather not available.

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NAME ALTERNATE MINIMUMS

**PELLSTON, MI**

PELLSTON RGNL/EMMET COUNTY (PLN).....**ILS or LOC Rwy 32<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>3</sup>**  
**RNAV (GPS) Rwy 32<sup>3</sup>**  
**VOR Rwy 23<sup>3</sup>**

NA when local weather not available.  
<sup>1</sup>LOC, Category C, 900-2½; Category D, 1000-3.  
<sup>2</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.  
<sup>3</sup>Category C, 900-2½; Category D, 1000-3.

**PONTIAC, MI**

OAKLAND COUNTY INTL (PTK).....**ILS or LOC Rwy 9R<sup>1</sup>**  
**LOC BC Rwy 27L<sup>1</sup>**  
**RNAV (GPS) Rwy 9R**  
**RNAV (GPS) Rwy 27L**

NA when local weather not available.  
<sup>1</sup>NA when tower closed.

**PORT HURON, MI**

ST CLAIR COUNTY INTL (PHN).....**RNAV (GPS) Rwy 4**  
**RNAV (GPS) Rwy 22**

NA when local weather not available.

**SAGINAW, MI**

MBS INTL (MBS).....**ILS or LOC Rwy 5<sup>1</sup>**  
**ILS or LOC Rwy 23<sup>1</sup>**  
**VOR Rwy 14<sup>2</sup>**

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>NA for NON-DME equipped aircraft when control tower closed.

SAGINAW COUNTY/H W

BROWNE (HYX).....**RNAV (GPS) Rwy 10<sup>1</sup>**  
**RNAV (GPS) Rwy 28**  
**VOR/DME-A<sup>1</sup>**

Category C, 900-2½.  
<sup>1</sup>NA when local weather not available.

**SAULT STE MARIE, MI**

CHIPPEWA COUNTY INTL (CIU).....**RNAV (GPS) Rwy 10**  
**RNAV (GPS) Rwy 28**  
**RNAV (GPS) Rwy 34**

NA when local weather not available.

SAULT STE MARIE MUNI/SANDERSON

FLD (ANJ).....**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 32**  
**VOR Rwy 32**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**SOUTH HAVEN, MI**

SOUTH HAVEN AREA RGNL (LWA).....**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**  
NA when local weather not available.  
Category C, 800-2¼; Category D, 800-2½.

**STURGIS, MI**

KIRSCH MUNI (IRS).....**NDB Rwy 19**  
**NDB Rwy 24**  
**RNAV (GPS) Rwy 1**  
**RNAV (GPS) Rwy 19**

NA when local weather not available.  
Category D, 800-2¼.

**THREE RIVERS, MI**

THREE RIVERS MUNI/ DR HAINES (HAI).....**RNAV (GPS) Rwy 27**  
NA when local weather not available.

**TRAVERSE CITY, MI**

CHERRY CAPITAL (TVC).....**ILS or LOC Rwy 28<sup>123</sup>**  
**RNAV (GPS) Rwy 10<sup>4</sup>**  
**RNAV (GPS) Rwy 18<sup>15</sup>**  
**RNAV (GPS) Rwy 28<sup>15</sup>**  
**RNAV (GPS) Rwy 36<sup>15</sup>**  
**VOR-A<sup>16</sup>**

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>NA when control tower closed.  
<sup>3</sup>LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 1100-3.  
<sup>4</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.  
<sup>5</sup>Category C, 900-2½; Category D, 1100-3.  
<sup>6</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 1100-3.

**TROY, MI**

OAKLAND/TROY (VLL).....**RNAV (GPS) Rwy 10**  
NA when local weather not available.

**WEST BRANCH, MI**

WEST BRANCH COMMUNITY (Y31).....**RNAV (GPS) Rwy 9<sup>12</sup>**  
**RNAV (GPS) Rwy 27<sup>3</sup>**

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Category C, 800-2¼; Category D, 900-2¼.  
<sup>3</sup>Category D, 900-2¼.

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