

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	600-2	800-2
A 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

LENAAWEE
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 1¹
RNAV (GPS) Rwy 7²
RNAV (GPS) Rwy 25²

¹NA when control tower closed.

²NA when local weather not available.

ANN ARBOR, MI

ANN ARBOR
MUNI (ARB).....RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
VOR Rwy 6¹
VOR Rwy 24¹

NA when local weather not available.

¹Category 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 23R¹
RNAV (GPS) Rwy 5L
RNAV (GPS) Rwy 23R

NA when local weather not available.

¹NA 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.

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 (ROB).....RNAV (GPS) Rwy 27

NA when local weather not available.

Category D, 900-2¼.

CADILLAC, MI

WEXFORD

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

NA when local weather not available.

Category D, 800-2¼.

CARO, MI

TUSCOLA

AREA (CFS).....RNAV (GPS) Rwy 6¹
RNAV (GPS) Rwy 24¹
VOR Rwy 10²

NA when local weather not available.

¹Category C, 900-2¼.

²Categories A, B, 900-2; Category C, 900-2¼.

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 15¹
ILS or LOC Rwy 33¹
RNAV (GPS) Rwy 15²
RNAV (GPS) Rwy 33²

NA when local weather not available.

¹LOC, Category D, 900-2¼.

²Category D, 900-2¼.

WILLOW RUN (YIP).....ILS or LOC Rwy 5¹

ILS or LOC Rwy 23¹

RNAV (GPS) Rwy 5²

RNAV (GPS) Rwy 9²

RNAV (GPS) Rwy 23²

VOR-A²

¹LOC, Category D, 800-2¼.

²Category D, 800-2¼.

DETROIT/GROSSE ILE, MI

GROSSE ILE MUNI (ONZ).....RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR-A¹

Categories A, B, 900-2; Category C, 900-2¼;

Category D, 900-2¼.

¹NA when local weather not available.

ESCANABA, MI

DELTA COUNTY (ESC).....ILS or LOC Rwy 10¹

LOC BC Rwy 28²

RNAV (GPS) Rwy 1²

RNAV (GPS) Rwy 10²

RNAV (GPS) Rwy 19²

RNAV (GPS) Rwy 28²

VOR Rwy 1²

NA when local weather not available.

¹LOC, Category D, 900-2¼.

²Category D, 900-2¼.

FLINT, MI

BISHOP INTL (FNT).....ILS or LOC Rwy 9¹²

ILS or LOC Rwy 27¹²

RNAV (GPS) Rwy 9³

RNAV (GPS) Rwy 18³⁴

RNAV (GPS) Rwy 27³

RNAV (GPS) Rwy 36³

VOR Rwy 18³

VOR Rwy 36³

¹NA when control tower closed.

²LOC, Category D, 800-2¼.

³Category D, 800-2¼.

⁴NA when local weather not available.

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, 900-2¼.

NAME ALTERNATE MINIMUMS

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

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

GRAND RAPIDS, MI

GERALD R FORD
INTL (GRR).....**ILS or LOC Rwy 26L**¹²
ILS or LOC Rwy 35¹
RNAV (GPS) Rwy 8L²
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR Rwy 17²

¹NA when control tower closed.
²NA 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 32**¹
LOC BC Rwy 14²
RNAV (GPS) Rwy 7²
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 25²
RNAV (GPS) Rwy 32²
VOR Rwy 25²

NA when local weather not available.
¹LOC, Category D, 800-2¼.
²Category D, 800-2¼.

HARBOR SPRINGS, MI

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

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

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.

NAME ALTERNATE MINIMUMS

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).....**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19

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**¹
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 32

NA when local weather not available.
¹NA when tower closed.

KALAMAZOO, MI

KALAMAZOO/BATTLE CREEK
INTL (AZO).....**RNAV (GPS) Rwy 17**
NA when local weather not available.

LANSING, MI

CAPITAL REGION
INTL (LAN).....**ILS or LOC Rwy 10R**¹
ILS or LOC Rwy 28L²
RNAV (GPS) Rwy 6³
RNAV (GPS) Rwy 10R³
RNAV (GPS) Rwy 24³
RNAV (GPS) Rwy 28L³

¹ILS, Category C, 800-2; Category D, 900-3;
²LOC, Category D, 900-3.
³Category D, 900-3.

LAPEER, MI

DUPONT/LAPEER (D95).....**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36

NA when local weather not available.

NAME ALTERNATE MINIMUMS

LUDINGTON, MI

MASON COUNTY (LDM).....RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 26

NA when local weather not available.
Category D, 900-2¼.

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 28¹
RNAV (GPS) Rwy 10²
RNAV (GPS) Rwy 28²

NA when local weather not available
¹LOC, Category C, 800-2¼; Category D, 900-3.
²Category C, 800-2¼; Category D, 900-2¼.

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.

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, 800-2¼.

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.

NAME ALTERNATE MINIMUMS

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 24¹
ILS or LOC Rwy 32¹
RNAV (GPS) Rwy 6²
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 24²
RNAV (GPS) Rwy 32²

¹NA when control tower closed.
²NA 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.

PELLSTON, MI

PELLSTON RGNL/EMMET
COUNTY (PLN).....ILS or LOC Rwy 32¹
RNAV (GPS) Rwy 5²
RNAV (GPS) Rwy 23³
RNAV (GPS) Rwy 32³
VOR Rwy 23³

NA when local weather not available.
¹LOC, Category C, 900-2¼; Category D, 1000-3.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.
³Category C, 900-2¼; Category D, 1000-3.

PONTIAC, MI

OAKLAND COUNTY
INTL (PTK).....ILS or LOC Rwy 9R¹
LOC BC Rwy 27L¹
RNAV (GPS) Rwy 9R
RNAV (GPS) Rwy 27L

NA when local weather not available.
¹NA 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.

NAME ALTERNATE MINIMUMS

SAGINAW, MI

MBS INTL (MBS).....**ILS or LOC Rwy 5¹**
ILS or LOC Rwy 23

NA when control tower closed.
¹NA when local weather not available.

SAGINAW COUNTY/H W

BROWNE (HYX).....**RNAV (GPS) Rwy 10¹**
RNAV (GPS) Rwy 28
VOR/DME-A¹

Category C, 900-2½.
¹NA when local weather not available.

SAULT STE MARIE, MI

CHIPPEWA COUNTY

INTL (CIU).....**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 16
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.

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.

NAME ALTERNATE MINIMUMS

TRAVERSE CITY, MI

CHERRY
CAPITAL (TVC).....**ILS or LOC Rwy 10¹²³**
ILS or LOC Rwy 28¹²⁴
RNAV (GPS) Rwy 10⁵
RNAV (GPS) Rwy 18¹⁶
RNAV (GPS) Rwy 28¹⁶
RNAV (GPS) Rwy 36¹⁶
VOR-A¹⁷
¹NA when local weather not available.

²NA when control tower closed.

³LOC, Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴LOC, Categories A, B, 900-2;
Category C, 900-2½; Category D, 1100-3.

⁵Categories A, B, 1200-2; Categories C, D, 1200-3.

⁶Category C, 900-2½; Category D, 1100-3.

⁷Categories 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 9¹²**
RNAV (GPS) Rwy 27³
¹NA when local weather not available.

²Category C, 800-2¼; Category D, 900-2¾.

³Category D, 900-2¾.