

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

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

ANA 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

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 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.

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NAME ALTERNATE MINIMUMS

BENTON HARBOR, MISOUTHWEST MICHIGAN
RGNL (BEH).....RNAV (GPS) Rwy 10
VOR Rwy 28

Category D, 800-2½.

BIG RAPIDS, MI

ROBEN-HOOD (RQB).....RNAV (GPS) Rwy 27

NA when local weather not available.

Category D, 900-2¾.

CADILLAC, MIWEXFORD
COUNTY (CAD).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

Category D, 800-2½.

CHARLEVOIX, MICHARLEVOIX
MUNI (CVX).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27

NA when local weather not available.

Category D, 800-2½.

CHARLOTTE, MI

FITCH H BEACH (FPK).....RNAV (GPS) Rwy 21

NA when local weather not available.

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

NA when local weather not available.

COLDWATER, MIBRANCH COUNTY
MEML (OEB).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

DETROIT, MICOLEMAN 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, 900-2¾.²Category D, 900-2¾.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-A²¹LOC, Category D, 800-2½.²Category D, 800-2½.

NAME ALTERNATE MINIMUMS

DETROIT/GROSSE ILE, MIGROSSE ILE MUNI (ONZ).....NDB Rwy 4¹²
RNAV (GPS) Rwy 4³
RNAV (GPS) Rwy 22³
VOR-A¹³¹NA when local weather not available.²Categories A, B, 1000-2; Category C, 1000-2¾;

Category D, 1000-3.

³Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

ESCANABA, MIDELTA 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, 900-2¾.²Category D, 900-2¾.**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 36³¹NA when control tower closed.²LOC, Category D, 800-2½.³Category D, 800-2½.⁴NA 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, 900-2¾.

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

NA when local weather not available.

Category D, 800-2½.

GAYLORD, MIGAYLORD RGNL (GLR).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27

Category D, 800-2½.

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAND RAPIDS, MI

GERALD R FORD
 INTL (GRR)..... ILS or LOC Rwy 26L¹²
 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 32¹
 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.

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.

NAME ALTERNATE MINIMUMS

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 25¹
 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 10R¹
 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.

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.

NAME ALTERNATE MINIMUMS

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, 900-2¾.

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.

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.

NAME ALTERNATE MINIMUMS

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, 900-2½; Category D, 1000-3.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.
³Category C, 900-2½; 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.

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