

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.

City, State	Airport	Effective Date	Amdt. No.
WINONA, MN	WINONA MUNI-MAX CONRAD FLD		4

TAKEOFF MINIMUMS:

RWY 17, NA - OBSTACLES.
RWY 12, STANDARD.
RWY 30, STANDARD WITH MINIMUM CLIMB OF 425 FT PER NM TO 1300 OR 600-3 WITH MINIMUM CLIMB OF 300 FT PER NM TO 1700 OR 1400-2 1/2 FOR CLIMB IN VISUAL CONDITIONS.
RWY 35, STANDARD WITH MINIMUM CLIMB OF 295 FT PER NM TO 1600 OR 1400-2 1/2 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 12 – CLIMB TO 1900 ON ONA R-110 BEFORE TURNING.
RWY 30 – CLIMB HEADING 298.39 TO 1400 BEFORE TURNING, OR FOR CLIMB IN VISUAL CONDITIONS, CROSS WINONA MUNI-MAX CONRAD FLD AT OR ABOVE 1900 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING A VCOA, NOTIFY ATC PRIOR TO DEPARTURE.
RWY 35 – CLIMB HEADING 354.64 TO 1600 BEFORE TURNING, OR FOR CLIMB IN VISUAL CONDITIONS, CROSS WINONA MUNI-MAX CONRAD FLD AT OR ABOVE 1900 BEFORE PROCEEDING ON COURSE. WHEN EXECUTING A VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 12, FENCE BEGINNING 92 FT FROM DER, 102 FT RIGHT OF CENTERLINE, 5 FT AGL/660 FT MSL. BUSH 101 FT FROM DER, 102 FT RIGHT OF CENTERLINE, 9 FT AGL/658 FT MSL. TREES BEGINNING 171 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 83 FT AGL/732 FT MSL.

NOTE: RWY 30, TREES BEGINNING 38 FT FROM DER, 233 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/677 FT MSL. TREE 164 FT FROM DER, 325 FT LEFT OF CENTERLINE, 20 FT AGL/669 FT MSL, TREES BEGINNING 1042 FT FROM DER, 771 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/712 FT MSL.

NOTE: RWY 35, TREES BEGINNING 61 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 86 FT AGL/745 FT MSL.

CONTROLLING OBSTACLES:

RWY 12:
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT – 1626 FT MSL TOWER 440153.00N/0913834.00W.

RWY 30:
1229 FT MSL TREE 440447.17N/0914439.97W; 1072 FT MSL TREE 440514.55N/0914457.49W; 1439 FT MSL AAO 440645.71N/0914717.35W;
1255 FT MSL TREE 440637.18N/0914555.51W.
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT – 1229 FT MSL TREE 440447.17N/0914439.97W.

RWY 35:
1379 FT MSL AAO 440757.04N/0914113.73W; 1279 FT MSL TREE 440724.52N/0914153.67W.
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT – 1560 FT MSL TOWER 440641.00N/0913902.00W.
VCOA: 1610 FT MSL TOWER 440149.60N/0913948.30W

REMARKS:



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FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

JILL OLSON (WES COMBS) AJV-353

APPROVED BY:

LARRY STROUT AJV-353

COORDINATED WITH:

AOPA, NBAA, ALPA, ZMP, LSE ATCT, ARPT MGR, FPO

CHANGES:

1. CONTROLLING OBSTACLES UPDATED FOR ALL RUNWAYS.
2. RWY 12: CHANGED TAKEOFF MINS FROM 300-1 OR STD. WITH A MIN CLIMB OF 320'/NM TO 800 TO STD.
3. RWY 30: CHANGED TAKEOFF MINS FROM 500-1 OR STD. WITH A MIN CLIMB OF 500'/NM TO 1200 TO STD WITH MIN CLIMB OF 425'/NM TO 1300 OR 600-3 WITH MIN CLIMB OF 300'/NM TO 1700 OR 1400-2 1/2 FOR VCOA.
4. RWY 35: CHANGED TAKEOFF MINS FROM 700-1 OR STD WITH A MIN CLIMB OF 390' PER NM TO 1500 TO STD WITH MIN CLIMB OF 295'/NM TO 1600 OR 1400-2 1/2 FOR VCOA.
5. CHANGED DEPARTURE PROCEDURE FOR 30, 35 FROM CLIMB RUNWAY HEADING TO 1900 BEFORE TURNING TO –
RWY 30: CLIMB HEADING 298.39 TO 1400 BEFORE TURNING OR VCOA TO 1900
RWY 35: CLIMB HEADING 354.64 TO 1600 BEFORE TURNING OR VCOA TO 1900.
6. MADE RWY 17 NA - OBSTACLES.

REASONS:

- 1-5. NEW OBSTACLE SURVEY DATA AND IAW 8260.46D.
6. AMGR REQUEST.

