

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
ELMIRA/CORNING, NY	ELMIRA/CORNING RGNL	20 JUNE 2019	10

TAKEOFF MINIMUMS:

RWY 5, 23: NA-ATC

RWY 6: 500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 1500.

RWY 10: 500-2 WITH MINIMUM CLIMB OF 270 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 1500, OR 2100-3 FOR VCOA.

RWY 24: STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2300, OR 2100-3 FOR VCOA.

RWY 28: 900-3 WITH MINIMUM CLIMB OF 380 FT PER NM TO 2400 OR STANDARD WITH MINIMUM CLIMB OF 650 FT PER NM TO 2100, OR 2100-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 6: CLIMB HEADING 062.39 TO 2100 BEFORE PROCEEDING ON COURSE.

RWY 10: CLIMB HEADING 101.27 TO 2500 BEFORE PROCEEDING ON COURSE.

RWY 24: CLIMB HEADING 242.40 TO 2600 BEFORE PROCEEDING ON COURSE.

RWY 28: CLIMB HEADING 281.29 TO 2300 BEFORE PROCEEDING ON COURSE.



VISUAL CLIMB OVER AIRPORT:

RWY 10: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2900 BEFORE PROCEEDING ON COURSE.

RWY 24: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2900 BEFORE PROCEEDING ON COURSE.

RWY 28: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2900 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 06, TREE 581 FT FROM DER, 655 FT LEFT OF CENTERLINE, 25 FT AGL/976 FT MSL. TREE 582 FT FROM DER, 513 FT LEFT OF CENTERLINE, 994 FT MSL. POLE 597 FT FROM DER, ON CENTERLINE, 20 FT AGL/970 FT MSL. TREES BEGINNING 1657 FT FROM DER, 820 FT LEFT OF CENTERLINE, UP TO 1023 FT MSL. TREES BEGINNING 3057 FT FROM DER, 383 FT RIGHT OF CENTERLINE, UP TO 1039 FT MSL. TREE 3434 FT FROM DER, 192 FT RIGHT OF CENTERLINE, 1044 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2285 FT LEFT OF CENTERLINE, 1213 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2277 FT LEFT OF CENTERLINE, 1318 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1755 FT LEFT OF CENTERLINE, UP TO 1363 FT MSL. TREES, TERRAIN BEGINNING 1.9 NM FROM DER, 1471 FT LEFT OF CENTERLINE, UP TO 1371 FT MSL. TREES, POLES BEGINNING 2 NM FROM DER, 1776 FT LEFT OF CENTERLINE, UP TO 1412 FT MSL. TREES BEGINNING 2.1 NM FROM DER, 2282 FT LEFT OF CENTERLINE, UP TO 1423 FT MSL.

NOTE: RWY 10, FENCE 25 FT FROM DER, 494 FT LEFT OF CENTERLINE, 4 FT AGL/947 FT MSL. TREE 549 FT FROM DER, 37 FT LEFT OF CENTERLINE, 969 FT MSL. TREE 656 FT FROM DER, 329 FT LEFT OF CENTERLINE, 984 FT MSL. TREE 701 FT FROM DER, 498 FT RIGHT OF CENTERLINE, 969 FT MSL. TREE 767 FT FROM DER, 666 FT LEFT OF CENTERLINE, 987 FT MSL. TREES, POLES BEGINNING 782 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 998 FT MSL. TREE 819 FT FROM DER, 413 FT RIGHT OF CENTERLINE, 975 FT MSL. TREES BEGINNING 888 FT FROM DER, 110 FT RIGHT OF CENTERLINE, UP TO 979 FT MSL. TREE 1317 FT FROM DER, 613 FT RIGHT OF CENTERLINE, 987 FT MSL. POLES BEGINNING 1351 FT FROM DER, 125 FT RIGHT OF CENTERLINE, UP TO 51 FT AGL/998 FT MSL. POLE 1743 FT FROM DER, 937 FT LEFT OF CENTERLINE, 38 FT AGL/999 FT MSL. POLES, BUILDING BEGINNING 1800 FT FROM DER, 235 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/1000 FT MSL. TREE 2051 FT FROM DER, 552 FT RIGHT OF CENTERLINE, 1006 FT MSL. BUILDING, POLES BEGINNING 2160 FT FROM DER, 129 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/1011 FT MSL. POLES, BUILDING BEGINNING 2383 FT FROM DER, 427 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/1015 FT MSL. TREE 2519 FT FROM DER, 616 FT RIGHT OF CENTERLINE, 1012 FT MSL. POLES BEGINNING 2604 FT FROM DER, 304 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/1019 FT MSL. POLE 2703 FT FROM DER, 1215 FT LEFT OF CENTERLINE, 53 FT AGL/1020 FT MSL. TREE 2737 FT FROM DER, 584 FT RIGHT OF CENTERLINE, 1013 FT MSL. POLE 2965 FT FROM DER, 1221 FT LEFT OF CENTERLINE, 52 FT AGL/1021 FT MSL. TREE 5322 FT FROM DER, 1786 FT RIGHT OF CENTERLINE, 1096 FT MSL. TREES BEGINNING 5460 FT FROM DER, 1787 FT RIGHT OF CENTERLINE, UP TO 1152 FT MSL. TREE 5617 FT FROM DER, 1992 FT RIGHT OF CENTERLINE, 1160 FT MSL. TREES BEGINNING 5776 FT FROM DER, 1776 FT RIGHT OF CENTERLINE, UP TO 1171 FT MSL. TREES BEGINNING 5886 FT FROM DER, 1852 FT RIGHT OF CENTERLINE, UP TO 1178 FT MSL. TREES BEGINNING 1 NM FROM DER, 1773 FT RIGHT OF CENTERLINE, UP TO 1215 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 1783 FT RIGHT OF CENTERLINE, UP TO 1288 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 1990 FT RIGHT OF CENTERLINE, UP TO 1351 FT MSL. TREES, TOWERS BEGINNING 1.3 NM FROM DER, 1640 FT RIGHT OF CENTERLINE, UP TO 1357 FT MSL. TOWER 1.6 NM FROM DER, 1748 FT RIGHT OF CENTERLINE, UP TO 1237 FT MSL.

NOTE: RWY 24, TERRAIN 12 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 944 FT MSL. TERRAIN 34 FT FROM DER, 13 FT LEFT OF CENTERLINE, 944 FT MSL. SIGN 871 FT FROM DER, 634 FT LEFT OF CENTERLINE, 27 FT AGL/968 FT MSL. TREE 962 FT FROM DER, 747 FT LEFT OF CENTERLINE, 991 FT MSL. TREE 1455 FT FROM DER, 704 FT LEFT OF CENTERLINE, 59 FT AGL/997 FT MSL. TREES BEGINNING 1667 FT FROM DER, 529 FT LEFT OF CENTERLINE, UP TO 1006 FT MSL.

NOTE: RWY 28, TERRAIN 27 FT FROM DER, 370 FT RIGHT OF CENTERLINE, 940 FT MSL. POLE 344 FT FROM DER, 571 FT RIGHT OF CENTERLINE,

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38 FT AGL/978 FT MSL. TREES, TRAVERSE WAY, POLE BEGINNING 440 FT FROM DER, 451 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/997 FT MSL. TREE, BUILDINGS BEGINNING 1028 FT FROM DER, 544 FT RIGHT OF CENTERLINE, UP TO 1014 FT MSL. TREE, POLES BEGINNING 1144 FT FROM DER, 460 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/1022 FT MSL. TOWER, POLES, TREES BEGINNING 1223 FT FROM DER, 468 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/1031 FT MSL. TREE 1342 FT FROM DER, 631 FT LEFT OF CENTERLINE, 973 FT MSL. TREES BEGINNING 1850 FT FROM DER, 185 FT LEFT OF CENTERLINE, UP TO 983 FT MSL. TREE 2689 FT FROM DER, 1083 FT LEFT OF CENTERLINE, 1028 FT MSL. TREES BEGINNING 2845 FT FROM DER, 657 FT LEFT OF CENTERLINE, UP TO 1039 FT MSL. TREE 4445 FT FROM DER, 1530 FT RIGHT OF CENTERLINE, 1048 FT MSL. TREES BEGINNING 4525 FT FROM DER, 1408 FT RIGHT OF CENTERLINE, UP TO 1065 FT MSL. TREES, POLE BEGINNING 4654 FT FROM DER, 1434 FT RIGHT OF CENTERLINE, UP TO 1067 FT MSL. TREE 4918 FT FROM DER, 1765 FT RIGHT OF CENTERLINE, 1112 FT MSL. TREES BEGINNING 5047 FT FROM DER, 1375 FT RIGHT OF CENTERLINE, UP TO 1131 FT MSL. TREES BEGINNING 1 NM FROM DER, 1388 FT RIGHT OF CENTERLINE, UP TO 1179 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 778 FT RIGHT OF CENTERLINE, UP TO 1389 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 506 FT RIGHT OF CENTERLINE, UP TO 1520 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 260 FT RIGHT OF CENTERLINE, UP TO 1604 FT MSL. TREES, POLES BEGINNING 1.4 NM FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 1637 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 1189 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 1254 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 72 FT RIGHT OF CENTERLINE, UP TO 1653 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 1756 FT MSL. TREES BEGINNING 1.6 NM FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 1702 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 1420 FT MSL. TREES BEGINNING 1.8 NM FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 1421 FT MSL. TREES BEGINNING 2.2 NM FROM DER, 21 FT LEFT OF CENTERLINE, UP TO 1480 FT MSL. TREES BEGINNING 2.3 NM FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 1583 FT MSL. TREES BEGINNING 2.4 NM FROM DER, 30 FT LEFT OF CENTERLINE, UP TO 1626 FT MSL. TREE 2.5 NM FROM DER, 1094 FT RIGHT OF CENTERLINE, 1557 FT MSL.

CONTROLLING OBSTACLES:

RWY 6: 1423 FT MSL TREE 421151.89N/0765110.89W (CEILING), 1335 FT MSL TREE 421156.20N/0765107.98W (VISIBILITY), 1363 FT MSL TREE 421124.88N/0765139.62W (CLIMB GRADIENT/CLIMB-TO ALTITUDE).
RWY 10: 1357 FT MSL TREE 420903.45N/0765109.92W (CEILING), 1237 FT MSL TOWER 420912.70N/0765042.54W (VISIBILITY), 1351 FT MSL TREE 420904.11N/0765113.98W (CLIMB GRADIENT), 1850 FT MSL AAO 420948.26N/0764657.34W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 2548 FT MSL TOWER 420622.00N/0765216.00W (VCOA).
RWY 24: 1950 FT MSL AAO 420632.00N/0765647.37W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 2548 FT MSL TOWER 420622.00N/0765216.00W (VCOA).
RWY 28: 1756 FT MSL TREE 420952.26N/0765625.42W (CLIMB GRADIENT, CEILING), 1557 FT MSL TREE 420936.84N/0765740.44W (VISIBILITY), 1960 FT MSL AAO 421000.11N/0765900.84W (CLIMB GRADIENT), 1990 FT MSL AAO 421006.11N/0765910.17W (CLIMB-TO ALTITUDE), 2548 FT MSL TOWER 420622.00N/0765216.00W (VCOA).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 6, 10, 24, 28: 2548 FT MSL TOWER 420622.00N/0765216.00W

REMARKS:

CHART NOTE AT BOTTOM OF ENTRY: CAUTION: EXTENSIVE GLIDER ACTIVITY IN VICINITY OF AIRPORT.

FLIGHT INSPECTED BY:

BRYAN VEIT

Digitally signed by
DAVID TEFFETELLER
Dec 20, 2018

OFFICE SYMBOL:

FICO

DATE:

12/14/18

DEVELOPED BY:

JAMES LAFFERTY

Digitally signed by
JAMES LAFFERTY
Aug 08, 2018

OFFICE SYMBOL:

AJV-5433

DATE:

06/19/2018

APPROVED BY:

PATRICK MULQUEEN

Digitally signed by
DAVID TEFFETELLER
Dec 20, 2018

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE



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ELMIRA/CORNING, NY	ELMIRA/CORNING RGNL	20 JUNE 2019	10

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZNY, ELM APP CON, ELM ATCT, APRT MGR

CHANGES - REASONS:

1. CHANGED RWY 6 TAKEOFF MINIMUMS FROM " 500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 338 FT PER NM TO 1600" TO "500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 1500" - UPDATED SURVEY AND OBSTACLE DATA PROVIDED INCREASED CLIMB GRADIENT MINIMA WHILE LOWERING TERMINATION ALTITUDE.
2. CHANGED RWY 10 TAKEOFF MINIMUMS FROM "500-2 WITH MINIMUM CLIMB OF 289 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 1600 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS" TO "500-2 WITH MINIMUM CLIMB OF 270 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 1500, OR 2100-3 FOR VCOA" - UPDATED SURVEY AND OBSTACLE DATA PROVIDED LOWERED INITIAL CLIMB GRADIENT AND TERMINATION ALTITUDE, AND RAISED CLIMB GRADIENT ASSOCIATED WITH STANDARD WEATHER MINIMA WHILE LOWERING TERMINATION ALTITUDE. ALSO INCREASED CEILING MINIMA FOR VCOA OPTION.
3. CHANGED RWY 24 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 2300 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2300, OR 2100-3 FOR VCOA." - UPDATED SURVEY AND OBSTACLE DATA ENABLED ADJUSTMENT TO CLIMB GRADIENT/TERMINATION ALTITUDE, AND INCREASED VCOA CEILING MINIMA.
4. CHANGED RWY 28 TAKEOFF MINIMUMS FROM "800-3 WITH MINIMUM CLIMB OF 373 FT PER NM TO 2400 OR STANDARD WITH MINIMUM CLIMB OF 639 FT PER NM TO 2000 OR 2000-3 FOR CLIMB IN VISUAL CONDITIONS" TO "900-3 WITH MINIMUM CLIMB OF 380 FT PER NM TO 2400 OR STANDARD WITH MINIMUM CLIMB OF 650 FT PER NM TO 2100, OR 2100-3 FOR VCOA" - UPDATED SURVEY AND OBSTACLE DATA PROVIDED INCREASED CEILING REQUIREMENT WHILE ADJUSTING BOTH CLIMB GRADIENT AND TERMINATION ALTITUDE. ALSO INCREASE CLIMB GRADIENT AND TERMINATION ALTITUDE ASSOCIATED WITH STANDARD WEATHER MINIMA. INCREASED VCOA MINIMUM CEILING REQUIREMENT.
5. CHANGED RWY 6 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 062.39 TO 2100 BEFORE PROCEEDING ON COURSE" TO "CLIMB HEADING 062.39 TO 2100 BEFORE PROCEEDING ON COURSE" - CHART STUDY PERFORMED TO ENSURE THAT TURN ALTITUDE IS SUFFICIENT TO CLEAR OBSTRUCTIONS.
6. CHANGED RWY 10 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 101.27 TO 2500 BEFORE PROCEEDING ON COURSE. FOR CLIMB IN VISUAL CONDITIONS: CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2800 MSL BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" TO "CLIMB HEADING 101.27 TO 2500 BEFORE PROCEEDING ON COURSE" - CHART STUDY PERFORMED TO ENSURE THAT TURN ALTITUDE IS SUFFICIENT TO CLEAR OBSTRUCTIONS. VCOA REQUIREMENTS MOVED TO VCOA SECTION.
7. CHANGED RWY 24 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 242.40 TO 2600 BEFORE PROCEEDING ON COURSE. FOR CLIMB IN VISUAL CONDITIONS: CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2800 MSL BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" TO "CLIMB HEADING 242.40 TO 2600 BEFORE PROCEEDING ON COURSE." - CHART STUDY PERFORMED TO ENSURE THAT TURN ALTITUDE IS SUFFICIENT TO CLEAR OBSTRUCTIONS. VCOA REQUIREMENTS MOVED TO VCOA SECTION.
8. CHANGED RWY 28 TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 281.29 TO 2400 BEFORE PROCEEDING ON COURSE. FOR CLIMB IN VISUAL CONDITIONS: CROSS ELMIRA/CORNING RGNL AIRPORT AT OR ABOVE 2800 MSL BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" TO "CLIMB HEADING 281.29 TO 2300 BEFORE PROCEEDING ON COURSE" - CHART STUDY PERFORMED TO ENSURE THAT TURN ALTITUDE IS SUFFICIENT TO CLEAR OBSTRUCTIONS. VCOA REQUIREMENTS MOVED TO VCOA SECTION.
9. UPDATE TAKEOFF OBSTACLES FOR RWY'S 6, 10, 24, AND 28 - UPDATED OBSTACLES PROVIDED BY REVISED SURVEY AND OBSTACLE DATA.

