

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
SHENANDOAH, IA	SHENANDOAH MUNI	3 JANUARY 2019	2

TAKEOFF MINIMUMS:

RWY 22, STANDARD.

RWY 4, 500-3 OR STANDARD WITH MINIMUM CLIMB OF 260 FEET PER NM TO 1700.

RWY 12, 500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 285 FEET PER NM TO 1600.

RWY 30, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 255 FEET PER NM TO 1300.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 04, BUILDING 70 FT FROM DER, 398 FT RIGHT OF CENTERLINE, 10 FT AGL/984 FT MSL.

TREE 73 FT FROM DER, 192 FT LEFT OF CENTERLINE, 978 FT MSL.

TREE 175 FT FROM DER, 391 FT LEFT OF CENTERLINE, 979 FT MSL.

TREE 281 FT FROM DER, 403 FT LEFT OF CENTERLINE, 981 FT MSL.

POLE 412 FT FROM DER, 330 FT RIGHT OF CENTERLINE, 1007 FT MSL.

TREE, POLE BEGINNING 551 FT FROM DER, 263 FT LEFT OF CENTERLINE, UP TO 992 FT MSL.

POLE 620 FT FROM DER, 470 FT RIGHT OF CENTERLINE, 1010 FT MSL.

TREE 822 FT FROM DER, 646 FT RIGHT OF CENTERLINE, 1022 FT MSL.

TREE 1612 FT FROM DER, 508 FT RIGHT OF CENTERLINE, 1034 FT MSL.

VEGETATION BEGINNING 4706 FT FROM DER, 1686 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1104 FT MSL.

TOWER 2.5 NM FROM DER, 3152 FT RIGHT OF CENTERLINE, 491 FT AGL/1463 FT MSL.

NOTE: RWY 12, VEGETATION 27 FT FROM DER, 233 FT LEFT OF CENTERLINE, 974 FT MSL.

VEGETATION 71 FT FROM DER, 336 FT LEFT OF CENTERLINE, 976 FT MSL.

POLE, TREE BEGINNING 74 FT FROM DER, 124 FT LEFT OF CENTERLINE, UP TO 28 FT AGL/998 FT MSL.

TREE 75 FT FROM DER, 91 FT RIGHT OF CENTERLINE, 984 FT MSL.

TREE 96 FT FROM DER, 522 FT RIGHT OF CENTERLINE, 986 FT MSL.

TREES BEGINNING 106 FT FROM DER, 390 FT RIGHT OF CENTERLINE, UP TO 18 FT AGL/990 FT MSL.

OTHER, TREE BEGINNING 3998 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 1100 FT MSL.

OTHER 5011 FT FROM DER, 68 FT LEFT OF CENTERLINE, 1115 FT MSL.

OTHER 5490 FT FROM DER, 691 FT RIGHT OF CENTERLINE, 1110 FT MSL.

TOWER 2.1 NM FROM DER, 2334 FT LEFT OF CENTERLINE, 311 FT AGL/1430 FT MSL.

NOTE: RWY 22, VEGETATION 101 FT FROM DER, 170 FT RIGHT OF CENTERLINE, 972 FT MSL.

FENCE 200 FT FROM DER, 392 FT LEFT OF CENTERLINE, 7 FT AGL/967 FT MSL.

CATENARY, POLE BEGINNING 965 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 999 FT MSL.

TREE 2023 FT FROM DER, 507 FT LEFT OF CENTERLINE, 1030 FT MSL.

NOTE: RWY 30, VEGETATION 73 FT FROM DER, 305 FT RIGHT OF CENTERLINE, 959 FT MSL.

TREES BEGINNING 117 FT FROM DER, 318 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/981 FT MSL.

TREES BEGINNING 305 FT FROM DER, 217 FT LEFT OF CENTERLINE, UP TO 970 FT MSL.

TREE 600 FT FROM DER, 118 FT LEFT OF CENTERLINE, 972 FT MSL.

TREE 790 FT FROM DER, 192 FT LEFT OF CENTERLINE, 977 FT MSL.

TREE 876 FT FROM DER, 136 FT RIGHT OF CENTERLINE, 983 FT MSL.

TREES BEGINNING 1007 FT FROM DER, 273 FT RIGHT OF CENTERLINE, UP TO 984 FT MSL.

TREE 1398 FT FROM DER, 332 FT LEFT OF CENTERLINE, 996 FT MSL.

TREE 1533 FT FROM DER, 432 FT LEFT OF CENTERLINE, 1015 FT MSL.

TREES BEGINNING 1557 FT FROM DER, 432 FT LEFT OF CENTERLINE, UP TO 1044 FT MSL.

TREE 2076 FT FROM DER, 693 FT LEFT OF CENTERLINE, 1049 FT MSL.

TREE 5404 FT FROM DER, 1808 FT RIGHT OF CENTERLINE, 1118 FT MSL.



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SHENANDOAH, IA	SHENANDOAH MUNI	3 JANUARY 2019	2

TREES BEGINNING 5502 FT FROM DER, 1411 FT RIGHT OF CENTERLINE, UP TO 1124 FT MSL.
 TREES BEGINNING 5767 FT FROM DER, 1299 FT RIGHT OF CENTERLINE, UP TO 1125 FT MSL.
 TREES BEGINNING 5825 FT FROM DER, 1508 FT RIGHT OF CENTERLINE, UP TO 1129 FT MSL.
 TREES BEGINNING 5887 FT FROM DER, 1320 FT RIGHT OF CENTERLINE, UP TO 1130 FT MSL.
 TREE, TRANSMISSION LINE BEGINNING 6054 FT FROM DER, 1374 FT RIGHT OF CENTERLINE, UP TO 1144 FT MSL.
 TREE, TRANSMISSION LINE BEGINNING 1.1 NM FROM DER, 1993 FT RIGHT OF CENTERLINE, UP TO 1146 FT MSL.

CONTROLLING OBSTACLES:

RWY 4: 1463 FT MSL TOWER 404648.00N/0952136.00W (CLIMB GRADIENT, CLIMB GRADIENT TERMINATION ALTITUDE, CEILING, VISIBILITY).

RWY 12: 1430 FT MSL TOWER 404406.64N/0952201.67W (CLIMB GRADIENT, CLIMB GRADIENT TERMINATION ALTITUDE, CEILING, VISIBILITY).

RWY 30: 1144 FT MSL TREE 404608.79N/0952606.90W (CLIMB GRADIENT, CLIMB GRADIENT TERMINATION ALTITUDE).
 1146 FT MSL TREE 404621.23N/0952612.45W (CEILING, VISIBILITY).

REMARKS:

FLIGHT INSPECTED BY:

ZACK SMYER

Digitally signed by
DAVID TEFFETELLER
Nov 15, 2018

OFFICE SYMBOL:

FICO

DATE:

10/18/18

DEVELOPED BY:

FRANK MOORE

FRANCIS HUDSON MOORE Digitally signed by FRANCIS HUDSON MOORE
Date: 2018.07.19 17:21:40 -04'00'

OFFICE SYMBOL:

AJV-5433

DATE:

07/19/2018

APPROVED BY:

PAT MULQUEEN

Digitally signed by
DAVID TEFFETELLER
Nov 15, 2018

OFFICE SYMBOL:

AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

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

OTHER:

ZMP, OMAHA APCH CON, ARPT MNGR

CHANGES - REASONS:

1. CHANGED RWY 12 CLIMB GRADIENT FROM 280 TO 285 - NEW TARGETS EVALUATION, CONTROLLING OBSTACLE.
2. ADDED RWY 30 TAKEOFF MINIMUMS - NEW CONTROLLING OBSTACLES.
3. UPDATED TAKEOFF OBSTACLE NOTES - NEW TARGETS EVALUATION

11/15/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/20/18.

1. AIRPORT NAME CHANGED FROM "SHENANDOAD" TO "SHENANDOAH".

