

**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.

<b>AIRPORT</b>	<b>AIRPORT ID</b>	<b>CITY</b>	<b>STATE</b>	<b>AMDT NO</b>	<b>ACTUAL EFFECTIVE DATE</b>
KIRSCH MUNI	KIRS	STURGIS	MI	4	7 OCTOBER 2021

**TAKEOFF MINIMUMS:**

**RWY 18, 24: STANDARD**

**RWY 6:** 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 243 FT PER NM TO 1200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2100 FT PRIOR TO DER.

**RWY 36:** 300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**



**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 6: NAVAID 39 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 3 FT AGL/928 FT MSL. NAVAID 51 FT FROM DER, 112 FT LEFT OF CENTERLINE, 2 FT AGL/928 FT MSL. VEHICLE ON ROAD 139 FT FROM DER, 511 FT LEFT OF CENTERLINE, 938 FT MSL. VEHICLE ON ROAD BEGINNING 188 FT FROM DER, 210 FT LEFT OF CENTERLINE, UP TO 941 FT MSL. VEHICLE ON ROAD BEGINNING 339 FT FROM DER, 302 FT RIGHT OF CENTERLINE, UP TO 941 FT MSL. BUILDING 522 FT FROM DER, 546 FT RIGHT OF CENTERLINE, 30 FT AGL/954 FT MSL. VEHICLE ON ROAD 667 FT FROM DER, 189 FT LEFT OF CENTERLINE, 942 FT MSL. POLE, TRANSMISSION LINE BEGINNING 971 FT FROM DER, 595 FT LEFT OF CENTERLINE, UP TO 960 FT MSL. TRANSMISSION LINE, POLE BEGINNING 973 FT FROM DER, 564 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/961 FT MSL. POLE, TRANSMISSION LINE, TREE BEGINNING 1044 FT FROM DER, 256 FT LEFT OF CENTERLINE, UP TO 975 FT MSL. TREE, POLE, TRANSMISSION LINE BEGINNING 1079 FT FROM DER, 400 FT RIGHT OF CENTERLINE, UP TO 982 FT MSL. TREE, POLE, TRANSMISSION LINE BEGINNING 1137 FT FROM DER, 235 FT RIGHT OF CENTERLINE, UP TO 983 FT MSL. TREE, TRANSMISSION LINE, POLE BEGINNING 1248 FT FROM DER, ON CENTERLINE, UP TO 997 FT MSL. TREE, TRANSMISSION LINE, POLE BEGINNING 1488 FT FROM DER, 122 FT LEFT OF CENTERLINE, UP TO 989 FT MSL. TREES BEGINNING 1586 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 992 FT MSL. TREES BEGINNING 2425 FT FROM DER, 347 FT LEFT OF CENTERLINE, UP TO 997 FT MSL. TREES BEGINNING 2794 FT FROM DER, 962 FT LEFT OF CENTERLINE, UP TO 1012 FT MSL. TREES BEGINNING 3342 FT FROM DER, 75 FT LEFT OF CENTERLINE, UP TO 1043 FT MSL. TREE 3478 FT FROM DER, 833 FT RIGHT OF CENTERLINE, 1026 FT MSL. TREES BEGINNING 4230 FT FROM DER, 1062 FT LEFT OF CENTERLINE, UP TO 1045 FT MSL. TREE 4385 FT FROM DER, 1633 FT LEFT OF CENTERLINE, 1050 FT MSL. TREE 4540 FT FROM DER, 1153 FT LEFT OF CENTERLINE, 1052 FT MSL. TREES BEGINNING 4668 FT FROM DER, 1179 FT LEFT OF CENTERLINE, UP TO 1060 FT MSL. TREE 4996 FT FROM DER, 1332 FT LEFT OF CENTERLINE, 100 FT AGL/1075 FT MSL. TREE 5811 FT FROM DER, 1170 FT LEFT OF CENTERLINE, 1094 FT MSL. TREES BEGINNING 5835 FT FROM DER, 976 FT LEFT OF CENTERLINE, UP TO 1102 FT MSL. TREE 1.0 NM FROM DER, 1339 FT LEFT OF CENTERLINE, 1086 FT MSL.

NOTE: RWY 18: NAVAID 38 FT FROM DER, 90 FT LEFT OF CENTERLINE, 2 FT AGL/913 FT MSL. NAVAID 38 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 3 FT AGL/914 FT MSL. TRANSMISSION LINE, POLE BEGINNING 1494 FT FROM DER, 808 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/979 FT MSL. TREE, POLE, TRANSMISSION LINE BEGINNING 1686 FT FROM DER, 598 FT RIGHT OF CENTERLINE, UP TO 960 FT MSL. TREES BEGINNING 1989 FT FROM DER, 77 FT RIGHT OF CENTERLINE, UP TO 963 FT MSL. TREES BEGINNING 2031 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 968 FT MSL. TREE 2085 FT FROM DER, 550 FT RIGHT OF CENTERLINE, 971 FT MSL.

NOTE: RWY 24: VEHICLE ON ROAD, TREE, TRANSMISSION LINE BEGINNING 29 FT FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1016 FT MSL.

NOTE: RWY 36: VEHICLE ON ROAD 22 FT FROM DER, 188 FT LEFT OF CENTERLINE, 921 FT MSL. NAVAID 39 FT FROM DER, 89 FT RIGHT OF CENTERLINE, 3 FT AGL/910 FT MSL. TERRAIN 73 FT FROM DER, 481 FT RIGHT OF CENTERLINE, 920 FT MSL. FENCE BEGINNING 78 FT FROM DER, 303 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/921 FT MSL. TREE, VEHICLE ON ROAD BEGINNING 80 FT FROM DER, 222 FT LEFT OF CENTERLINE, UP TO 960 FT MSL. TERRAIN BEGINNING 167 FT FROM DER, 418 FT RIGHT OF CENTERLINE, UP TO 924 FT MSL. TREES BEGINNING 464 FT FROM DER, 394 FT LEFT OF CENTERLINE, UP TO 963 FT MSL. TREE 710 FT FROM DER, 355 FT RIGHT OF CENTERLINE, 932 FT MSL. TREE 801 FT FROM DER, 504 FT RIGHT OF CENTERLINE, 951 FT MSL. TREES BEGINNING 979 FT FROM DER, 386 FT RIGHT OF CENTERLINE, UP TO 957 FT MSL. TREES BEGINNING 1265 FT FROM DER, 475 FT RIGHT OF CENTERLINE, UP TO 979 FT MSL. TREES BEGINNING 1341 FT FROM DER, 471 FT LEFT OF CENTERLINE, UP TO 967 FT MSL. TREE 2359 FT FROM DER, 413 FT LEFT OF CENTERLINE, 969 FT MSL. TREES BEGINNING 2526 FT FROM DER, 1013 FT RIGHT OF CENTERLINE, UP TO 995 FT MSL. TREE 3034 FT FROM DER, 408 FT LEFT OF CENTERLINE, 985 FT MSL. TREE 3120 FT FROM DER, 334 FT LEFT OF CENTERLINE, 992 FT MSL. TREE 3235 FT FROM DER, 197 FT LEFT OF CENTERLINE, 996 FT MSL. TREE 3356 FT FROM DER, 200 FT LEFT OF CENTERLINE, 1002 FT MSL. TREES BEGINNING 3379 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 1014 FT MSL. TREE 3607 FT FROM DER, 1464 FT RIGHT OF CENTERLINE, 1006 FT MSL. TREE 3943 FT FROM

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DER, 1484 FT RIGHT OF CENTERLINE, 1009 FT MSL. TREE 4051 FT FROM DER, 96 FT RIGHT OF CENTERLINE, 1013 FT MSL. TREE 4344 FT FROM DER, 1118 FT RIGHT OF CENTERLINE, 1019 FT MSL. TREE 4347 FT FROM DER, 843 FT RIGHT OF CENTERLINE, 1021 FT MSL. TREE 4457 FT FROM DER, 1017 FT RIGHT OF CENTERLINE, 1028 FT MSL. TREES BEGINNING 4507 FT FROM DER, 856 FT RIGHT OF CENTERLINE, UP TO 1032 FT MSL. TREE 4777 FT FROM DER, 1408 FT RIGHT OF CENTERLINE, 1034 FT MSL. TREE 4875 FT FROM DER, 1591 FT RIGHT OF CENTERLINE, 1045 FT MSL. TREES BEGINNING 4885 FT FROM DER, 507 FT RIGHT OF CENTERLINE, UP TO 1047 FT MSL. TREE 5752 FT FROM DER, 810 FT RIGHT OF CENTERLINE, 1061 FT MSL.

#### CONTROLLING OBSTACLES:

RWY 6: 1102 FT MSL TREE 414937.42N/0852451.75W (CEILING, CLIMB GRADIENT, CLIMB-TO ALTITUDE)  
1086 FT MSL TREE 414940.71N/0852450.40W (VISIBILITY)  
RWY 36: 1061 FT MSL TREE 415009.68N/0852617.04W

#### REMARKS:

#### FLIGHT INSPECTED BY

JAMES ONIEAL

*Digitally signed by*

**JASON KRETSCHMER**

Aug 27, 2021

#### OFFICE

FICO

#### DATE

08/26/2021

#### DEVELOPED BY

JASON KRETSCHMER  
(HENRY BRADSHAW)

*Digitally signed by*

**JASON KRETSCHMER**

Jul 22, 2021

#### OFFICE

AJV-A421

#### DATE

05/11/2021

#### APPROVED BY

MARLON ROBINSON

*Digitally signed by*

**JASON KRETSCHMER**

Jul 22, 2021

#### OFFICE

AJV-A420

#### DATE

#### TITLE

MANAGER

#### REQUIRED EFFECTIVE DATE:

ROUTINE

#### COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZAU, AZO APP CON, AMGR

#### CHANGES - REASONS:

1. TAKEOFF MINIMUMS FOR RWY 6 CHANGED VISIBILITY FROM "2" TO "1 1/4" AND ADDED ", OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2100 FT PRIOR TO DER." - UPDATED OBSTACLE EVALUATION; 8260.3D 14-1-4, D AND 8260.46G TABLE 2-1-1.
2. TAKEOFF MINIMUMS FOR RWY 36 CHANGED FROM "STANDARD" TO "300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1200, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER." - NEW CONTROLLING OBSTACLE; 8260.3D 14-1-4, D AND 8260.46G TABLE 2-1-1.
3. DELETED TEXTUAL DEPARTURE "RWY 18: CLIMB HEADING 183.69 TO 1400 BEFORE TURNING LEFT." - OBSTACLE NO LONGER IN DATABASE.
4. ADDED CONTROLLING OBSTACLE FOR RWY 36 - UPDATED OBSTACLE EVALUATION.
5. UPDATED RWY 6 CONTROLLING OBSTACLES FROM "1102 TREE 414937.42N-0852451.75W" TO "1102 FT MSL TREE (26-042409) 414937.42N/0852451.75W (CEILING, CLIMB GRADIENT, CLIMB-TO ALTITUDE), 1086 FT MSL TREE (26-044767) 414940.71N/0852450.40W (VISIBILITY)" - UPDATED OBSTACLE EVALUATION.
5. DELETED RWY 18 CONTROLLING OBSTACLE - OBSTACLE NO LONGER IN DATABASE.
6. UPDATED TAKEOFF OBSTACLE NOTES - UPDATED OBSTACLE EVALUATION, DEPARTURE OBSTACLE GROUPER.

QUALITY  
5  
CHECKED