# OBSTRUCTION DATA SHEET

ODS 5362 KIRSCH MUNICIPAL AIRPORT STURGIS, MICHIGAN

DIGITIZED FROM

OC 5362 SURVEYED 9 SEPTEMBER 1992 2ND EDITION

HORIZONTAL DATUM NAD83 VERTICAL DATUM NGVD29



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THE NATIONAL OCEAN SERVICE
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# **ATTENTION**

See SPECIAL NOTICES in "Dates of Latest Editions, Airport Obstruction Charts - Obstruction Data Sheets," for possible corrections. National Oceanic and Atmospheric Administration (NOAA) publications are available through NOAA Distribution Branch (N/CG33), National Ocean Service, Riverdale, MD 20737. Telephone: 301-436-6990

#### OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA No. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS and the OC depict a representation of objects that existed at the time of the OC field survey.

#### ODS information is arranged as follows:

- 1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
- 2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
- 3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

A(V) ..... Utility runway - visual approach only

A(NP) .... Utility runway - nonprecision instrument approach

B(V) ..... Nonutility runway - visual approach only

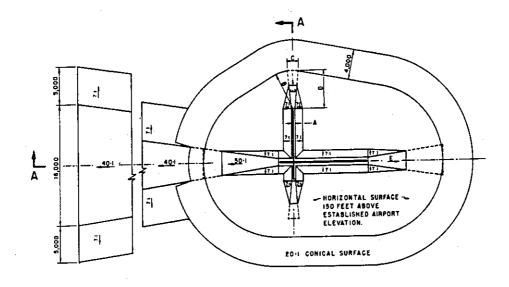
C ...... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile

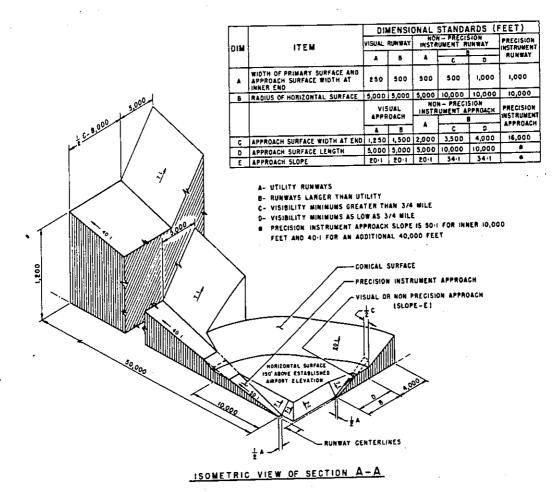
D ...... Nonutility runway- nonprecision instrument approach with visibility minimums as low as 3/4 mile

PIR ..... Precision instrument runway

SUPLC .... Supplemental C underlying a B(V)

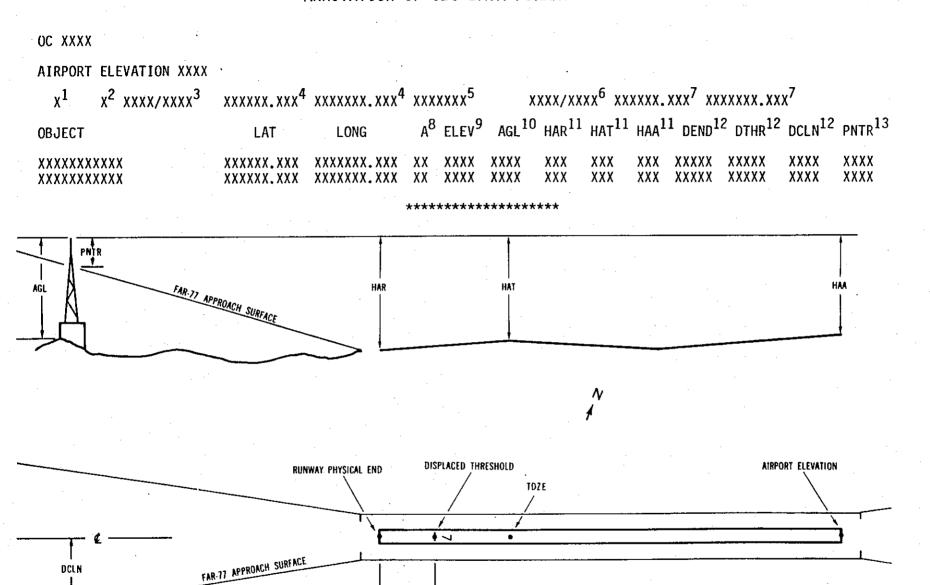
FAR-77 imaginary surface dimensions are defined on page 2 of this report.





FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

## ANNOTATION OF ODS DATA FORMAT



(NOT TO SCALE)
Elevations and distances are in feet

Tower

#### EXPLANATION OF FOOTNOTES

- Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary areas of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed).
- 3 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displace threshold

8 Accuracy codes: Horizontal Vertical 1 = 20 A = 2 2 = 40 B = 5 C = 20

- 9 Elevation above mean sea level (MSL) at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- Height above ground level (AGL). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA Height above airport
  HAR Height above approach end of reference runway
  HAT Height above reference runway touchdown zone elevation
- DEND Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
  - DTHR Distance along reference runway centerline from point nearest to object (perpendicular) to displace threshold
  - DCLN Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft

A negative value for DEND or DTHR indicates that object is in primary on roll-out side of zero distance point.

PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

## AIRPORT ELEVATION 925

18 C	909/ 915	414912.815	-852627.363	3 1	794147	•	٠	-			i de		
OBJECT		LAT	LONG	Α	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE TREE TREE TREE TREE TREE TREE TREE		414916.11 414916.43 414925.32 414929.97 414945.97 414947.22 414949.03	-852628.78 -852627.73 -852632.70 -852621.89 -852630.23 -852629.60 -852628.12	1A 1A 1A 1A	916 917 941 942 1002 1008 1014		7 8 32 33 93 99 105	1 26 27 87 93 99	-9 -8 16 17 77 83 89	334 366 1268 1734 3357 3484 3666		106R 25R 397R 423L 199R 151R 38R	3 1 -12 1 3 3
											e e		
36 SUPLC	912/ 915	414816.516	-852626.96	4 3	594147	•				-			
OBJECT		LAT	LONG	Α	EL	AGL	HAR	нат	HAA	DEND	DTHR	DCLN	PNTR
POLE POLE		414804.65 414804.07	-852626.08 -852631.29		939 941		27 29	24 26	14 16	1202 1258		61R 334L	-2 -2
			. *										
6 AV	913/ 924	414840.359	-852629.01	1	584059	•				. *	•		
OBJECT		LAT	LONG	Α	EL.	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND GROUND GROUND POLE TREE		414857.92 414858.95 414848.19 414837.38 414833.40	-852546.90 -852552.15 -852606.80 -852642.93 -852651.70	1A 1A 1A	927 926 922 938 969		14 13 9 25 56	3 2 -2 14 45	2 1 -3 13 44	-3648 -3363 -1849 1057 1834		139R 157L 197R 291L 292L	2 2 1 -18 -26

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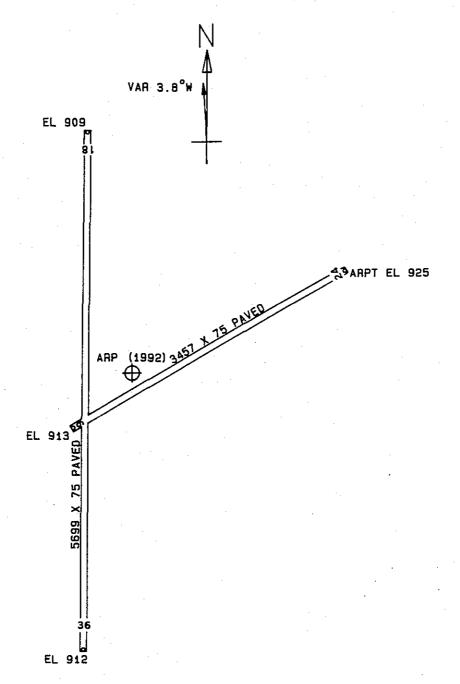
# AIRPORT ELEVATION 925

24 ANP	925/ 925	414858.107	-852550.014	23	384125	•							
OBJECT		LAT	LONG	Α	EL	AGL	HAR	HAT	AAH	DEND	DTHR	DCLN	PNTR
GROUND GROUND		414848.19 414858.95	-852606.80 -852552.15	1A	922 926		-3 1	-3 1	-3 1	-1608 -94		197L 157R	1 2
GROUND ROAD (N)		414857.92 414858.27	-852546.90 -852542.33		927 938 -		2 13	2 13	2 13	191 506		139L 289L	2 -2
OL ON POLE TREE		414902.25 414906.85	-852534.91 -852534.28		957 980		32 55	32 55	32 55	1195 1478		236L 137R	-18 -9
TREE		414706.80	-852526.98		984		59	59	59	1947		155L	-28

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## AIRPORT ELEVATION 925

ARP	414846.390	-852620.500						•
OBJECT	LAT	LONG	Α	EL	AGL	наа	MAG BEARING	DISTANCE
OL ON POLE OL ON POLE ROD ON OL APBN TREE TREE TREE TREE TREE ANT ON OL BLDG OL ON POLE TREE	414846.64 414848.16 414844.61 414900.12 414837.51 414836.91 414910.97 414912.98 414835.26 414900.48 414804.75	-852603.18 -852559.81 -852558.37 -852636.86 -852645.12 -852648.18 -852639.30 -852638.06 -852537.48 -852534.61 -852634.75	1A 1A 1A 1A 1A 1A 1A	958 959 982 967 974 982 1005 988 1054 957 960		33 34 57 42 49 57 80 63 129 32 35	9240 8717 9955 32204 24803 24912 33401 33730 11252 7128 19809	1312 1577 1685 1862 2070 2306 2867 3003 3448 3757 4352
ANT ON W TANK TREE TANK TREE ANT ON OL RADIO MAST OL ON RADIO MAST	414756.44 414937.17 414949.37 415050.58 414641.01 414611.02	-852532.14 -852450.23 -852500.35 -852658.50 -852435.90 -852509.60	1A 1A 1B 1B 2A 2A	1089 1091 1066 1110 1301 1277	407 405	164 166 141 185 376 352	14752 5651 4722 35054 15148 16456	6244 8553 8802 12897 14962 16620



TOUCHDOWN ZONE RUNWAY ELEVATION

18 915 36 915 6 924 24 925

KIRSCH MUNICIPAL AIRPORT
STURGIS, MICHIGAN
(NOT TO SCALE)
(ALL ELEVATIONS IN FEET)