OBSTRUCTION DATA SHEET

ODS 5209 WORTHINGTON MUNICIPAL AIRPORT WORTHINGTON, MINNESOTA

DIGITIZED FROM

OC 5209 SURVEYED 22 JUNE 1992 6TH EDITION

HORIZONTAL DATUM NAD83 VERTICAL DATUM NGVD29



PREPARED AND DISTRIBUTED BY THE NATIONAL OCEAN SERVICE U.S. DEPARTMENT OF COMMERCE FOR THE FEDERAL AVIATION ADMINISTRATION

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
$B(V) \ldots$	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.





ISOMETRIC VIEW OF SECTION A-A

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RUNWAY CENTERLINES

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES ANNOTATION OF ODS DATA FORMAT

· OC XXXX



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EXPLANATION OF FOOTNOTES

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- Data block identifier. If a runway number is entered (reference 1 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 2 an obstruction survey was performed. (More than one surface may be surveyed).
- Elevation at approach end of reference runway/touchdown zone elevation 3
- Latitude and longitude at approach end of reference runway 4
- Geodetic azimuth of reference runway reckoned from north 5
- Elevation at reference runway displaced threshold/touchdown zone 6 elevation
- Latitude and longitude at reference runway displace threshold 7

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

- Elevation above mean sea level (MSL) at top of object. This value 9 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 10 objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- HAA Height above airport 11 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 12 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 13 footnote 2).

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AIRPORT ELEVATION 1574

11 C 1574/1574 433927.491 -953507.470 1144320.

OBJECT	LAT	LONG A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN F	NTR
TREE	433930.58	-953524.00 1A	1599		25	25	25	1234		224R	-5

29 C 1565/1570 433904.744 -953359.444 2944407.

OBJECT	· . ·	LAT	LONG A	EL	AGL HAR	HAT	HAA	DEND	DTHR	DCLN PNTR
ANT ON BLDG		433857.49	-953339.46 1A	1577	12	7	3	1642		53L -30

17 C 1568/1574 433941.757 -953500.500 1795826.

OBJECT	LAT	LONG	Α	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN PNTR
						• •					
	*** N	IO OBST	RUCI		NS	*	**				

35 C 1	1574/1574	433900.275	-953500.474	3	595827	•		·				• •
OBJECT		LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN PNTR
ROAD (N) LADDER ON OL	тк	433843.46 433724.89	-953500.32 -953519.32		1584 1731		10 157	10 157	10 157	1702 9658		10R -34 1391L -121

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AIRPORT ELEVATION 1574

ARP 4	33918.238	-953445.153						
OBJECT	LAT	LONG	Α	EL	AGL	HAA	MAG BEARING	DISTANCE
ANT ON OL TWR TREE OL WINDSOCK TREE ROD ON OL APBN TREE VOR DME LADDER ON OL TK ANT ON OL GRAIN ELEVATOR OL GRAIN ELEVATOR	433908.85 433922.63 433902.50 433921.58 433855.13 433925.82 433848.90 433848.39 433756.30 433747.31 433908.35	-953432.79 -953425.33 -953456.27 -953516.30 -953510.75 -953524.67 -953455.04 -953455.04 -953454.59 -953405.81 -953433.33 -953226.38	1A 1A 1A 1A 1A 1A 1A 1B 1A 1B	1601 1635 1594 1614 1629 1625 1586 1599 1726 1794 1696	209	27 61 20 55 51 12 25 152 220 122	13117 6802 20208 27325 21348 27948 18844 18756 15546 16936 9035	1316 1524 1791 2315 3003 3005 3059 3101 8787 9248 10252



TOUCHDOWN ZONE RUNWAY ELEVATION 11 1574 29 1570 17 1574 35 1574

WORTHINGTON MUNICIPAL AIRPORT WORTHINGTON, MINNESOTA (NOT TO SCALE)