

OBSTRUCTION DATA SHEET

ODS 5041
ROCHESTER MUNICIPAL AIRPORT
ROCHESTER, MINNESOTA

DIGITIZED FROM

OC 5041
SURVEYED OCTOBER 1993
8TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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.

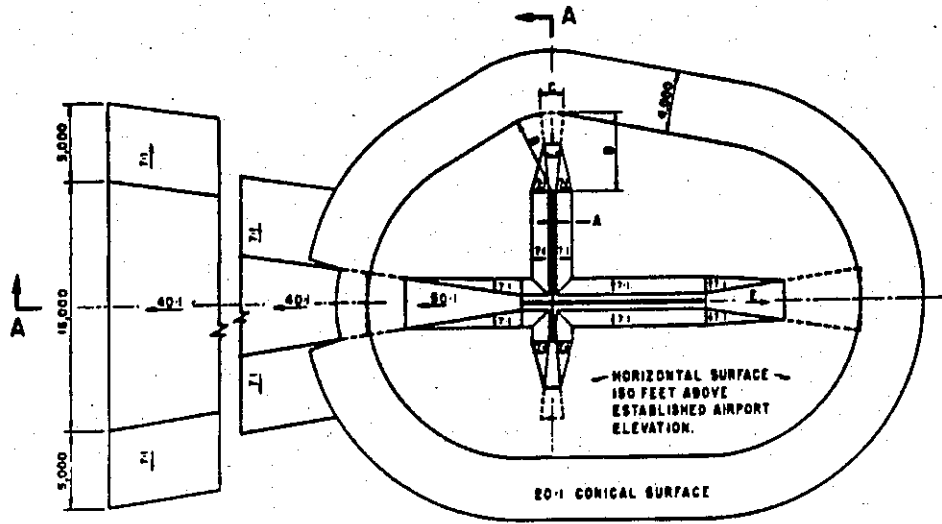
ODS information is arranged as follows:

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.

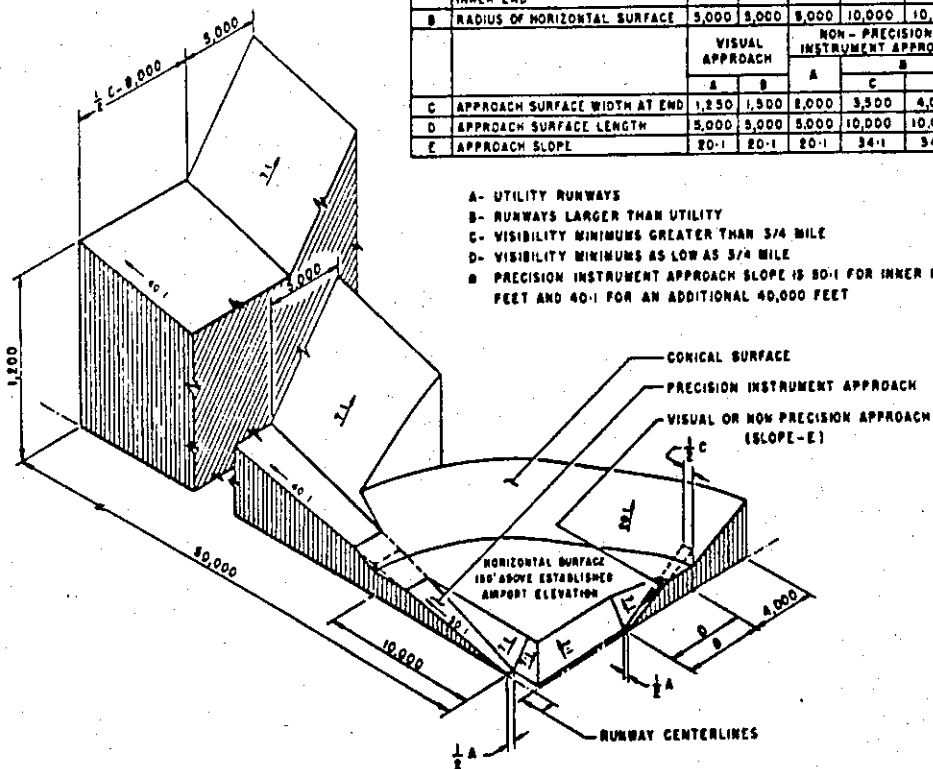
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	800	800	800	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	#
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	#



ISOMETRIC VIEW OF SECTION A-A

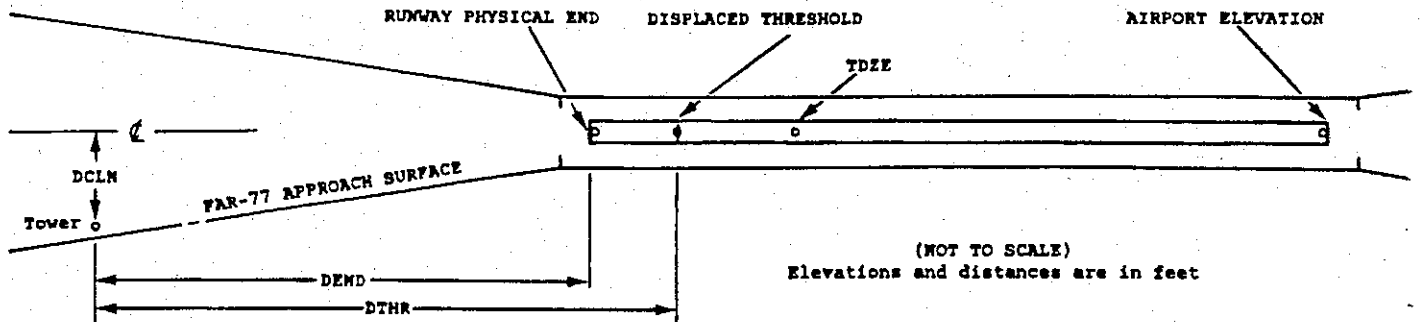
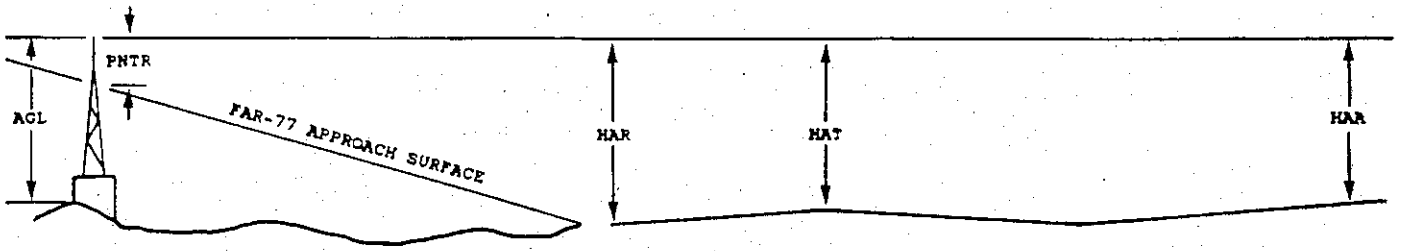
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

1	2	3	4	4	5	6	7	7	8	9	10	11	11	11	12	12	12	13
X	X	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	XXXXXX	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX



EXPLANATION OF FOOTNOTES

- 1 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.
- 2 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 displaced threshold
- 8 Accuracy codes: Horizontal (Ft.) Vertical (Ft.)
 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.
- 10 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
- 12 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 displaced 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.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

DC5041

AIRPORT ELEVATION 1317

13 PIR 1274/1286 435502.588 -923028.457 1320751.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GS	435416.60	-922926.27	1A	1332		58	46	15	-6500		399R	32
ROD ON OL TMOM	435416.45	-922927.35	1A	1320		46	34	3	-6451		463R	20
ROD ON OL TMOM	435418.51	-922929.27	1A	1320		46	34	3	-6207		403R	21
GROUND	435424.50	-922938.54	1A	1302		28	16	-15	-5297		409R	7
GROUND	435445.17	-923010.60	1A	1295		21	9	-22	-2153		431R	12
OL ON GS	435453.04	-923021.99	1A	1321		47	35	4	-1000		400R	43
OL LOC	435509.21	-923038.58	1A	1277		3	-9	-40	1000		OR	-13
ROAD (N)	435514.25	-923046.44	1A	1281		7	-5	-36	1768		7R	-24

31 PIR 1304/1304 435412.678 -922912.153 3120844.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GS	435453.04	-923021.99	1A	1321		17	17	4	-6533		400L	43
GROUND	435445.17	-923010.60	1A	1295		-9	-9	-22	-5380		431L	12
GROUND	435424.50	-922938.54	1A	1302		-2	-2	-15	-2236		409L	7
ROD ON OL TMOM	435418.51	-922929.27	1A	1320		16	16	3	-1325		403L	21
ROD ON OL TMOM	435416.45	-922927.35	1A	1320		16	16	3	-1081		463L	20
OL ON GS	435416.60	-922926.27	1A	1332		28	28	15	-1033		399L	32
OL ON LOC	435406.26	-922902.34	1A	1310		6	6	-7	969		OR	-9
ROD ON OL POLE	435350.20	-922841.45	1A	1350		46	46	33	3194		179L	-14

2 C 1317/1317 435400.310 -923012.134 262827.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	435344.39	-923030.86	1A	1327		10	10	10	2054		509L	-44
POLE	435341.24	-923031.49	1A	1338		21	21	21	2360		408L	-42

20 C 1282/1304 435446.256 -922940.481 2062849.

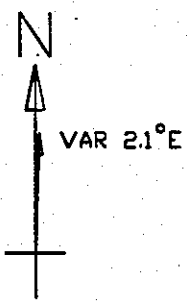
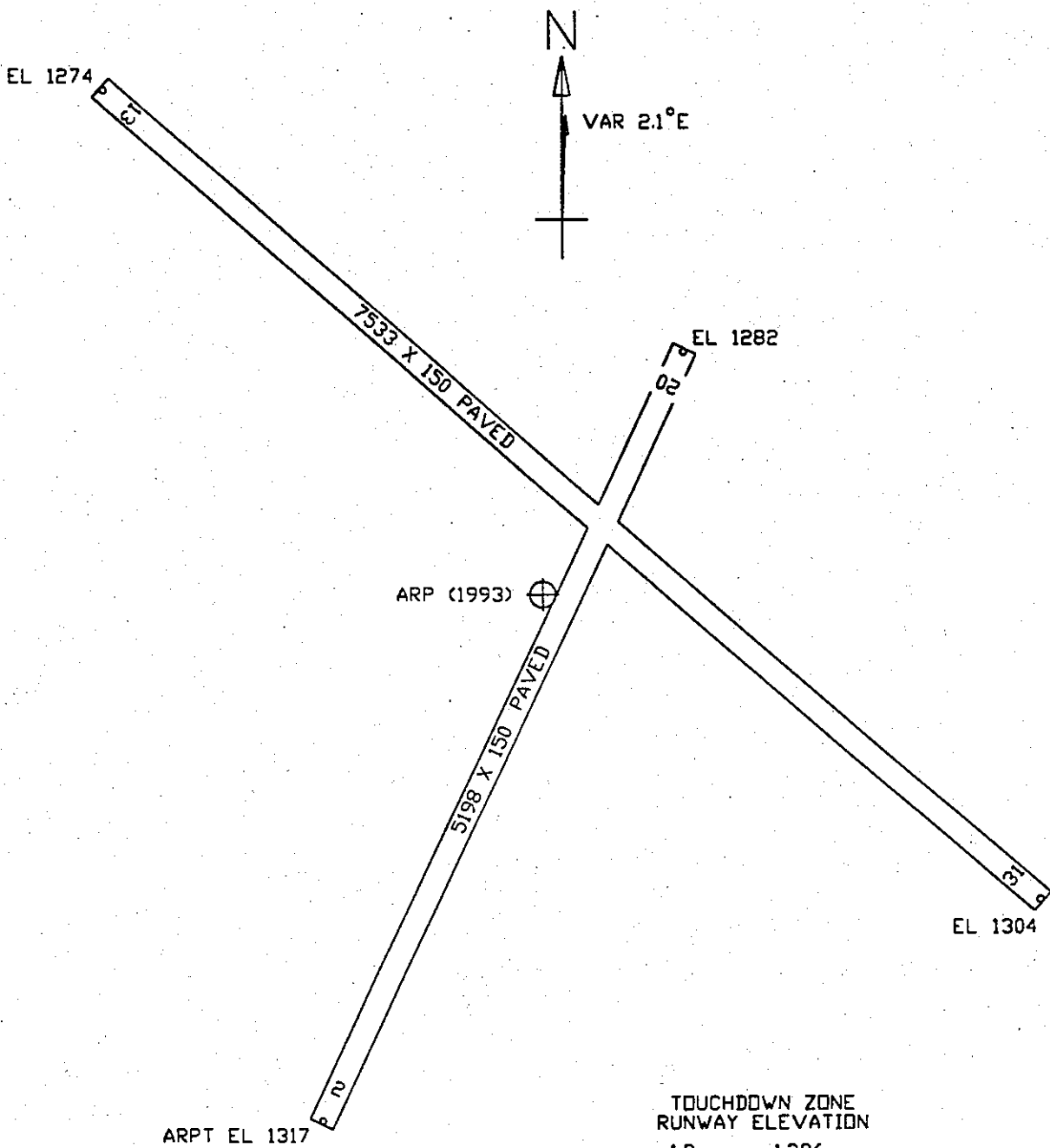
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	435500.98	-922930.45	1A	1284		2	-20	-33	1662		8R	-41

OC5041

AIRPORT ELEVATION 1317

ARP 435431.775 -922952.754

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG	BEARING	DISTANCE
ROD ON AMOM	435427.47	-922947.42	1A	1326		9	13606		585
ROD ON OL ASR	435434.35	-923006.55	1A	1343		26	28221		1043
WSK	435446.73	-922948.15	1A	1300		-17	1026		1551
ANT & APBN ON OL ATCT	435441.19	-922931.89	1A	1361		44	5556		1800
ROD ON OL DOME	435456.12	-922948.30	1A	1347		30	526		2486
RTR TWR (SOUTHEAST OF 4)	435512.44	-922940.66	1A	1353		36	1002		4212
TREE	435356.63	-922904.68	1A	1348		31	13312		5005



TOUCHDOWN ZONE
RUNWAY ELEVATION

13	1286
31	1304
2	1317
20	1304

ROCHESTER MUNICIPAL AIRPORT
 ROCHESTER, MINNESOTA
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)