

OBSTRUCTION DATA SHEET

ODS 810
CHIPPEWA COUNTY INTERNATIONAL AIRPORT
SAULT STE. MARIE, MICHIGAN

DIGITIZED FROM

OC 810
SURVEYED AUGUST 1993
6TH 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.

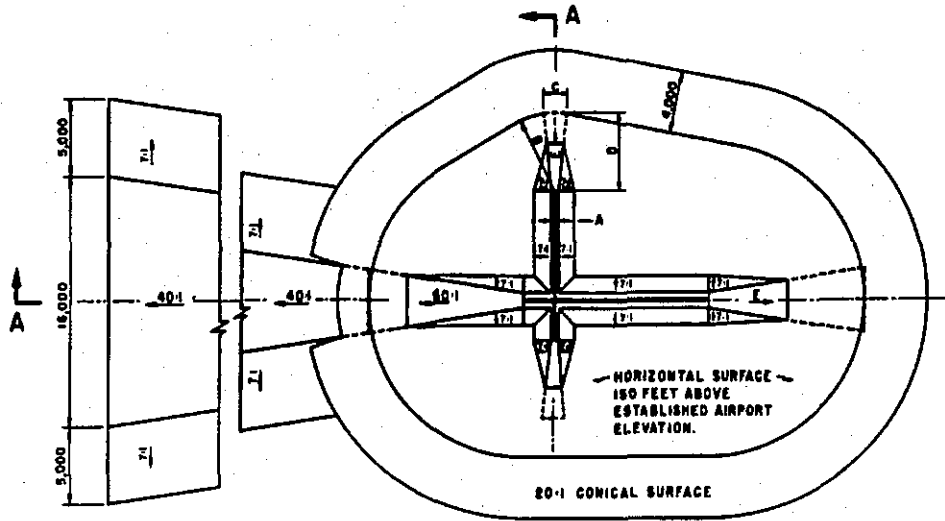
ODS information is arranged as follows:

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.

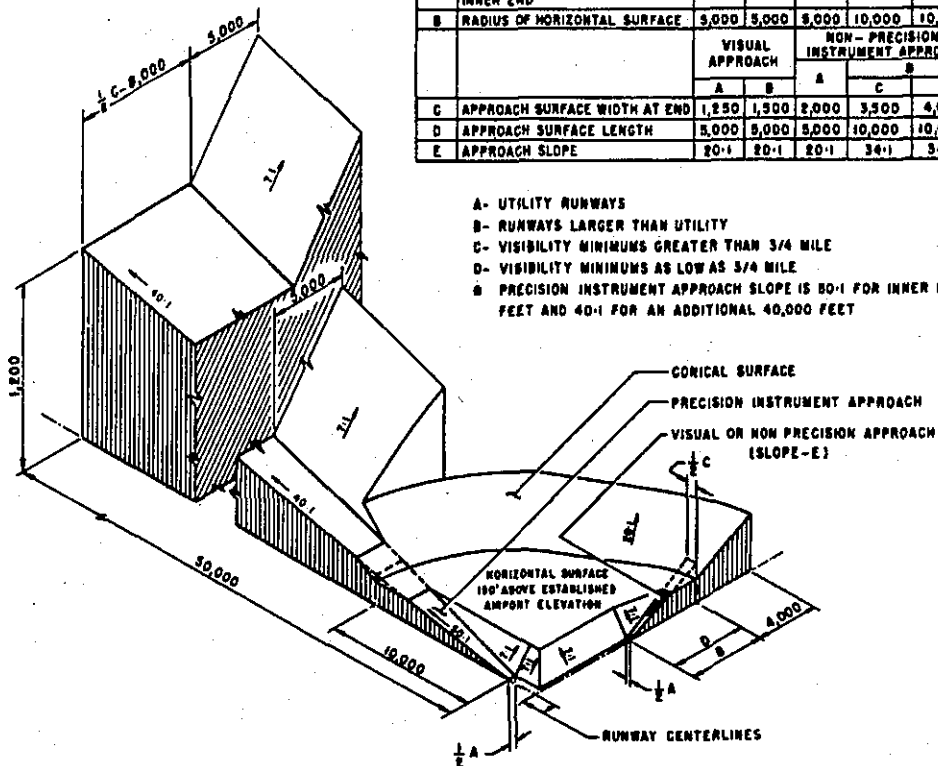
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,300	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	•



- A- UTILITY RUNWAYS
- B- RUNWAYS LARGER THAN UTILITY
- C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- PRECISION INSTRUMENT APPROACH SLOPE IS 20:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

ISOMETRIC VIEW OF SECTION A-A

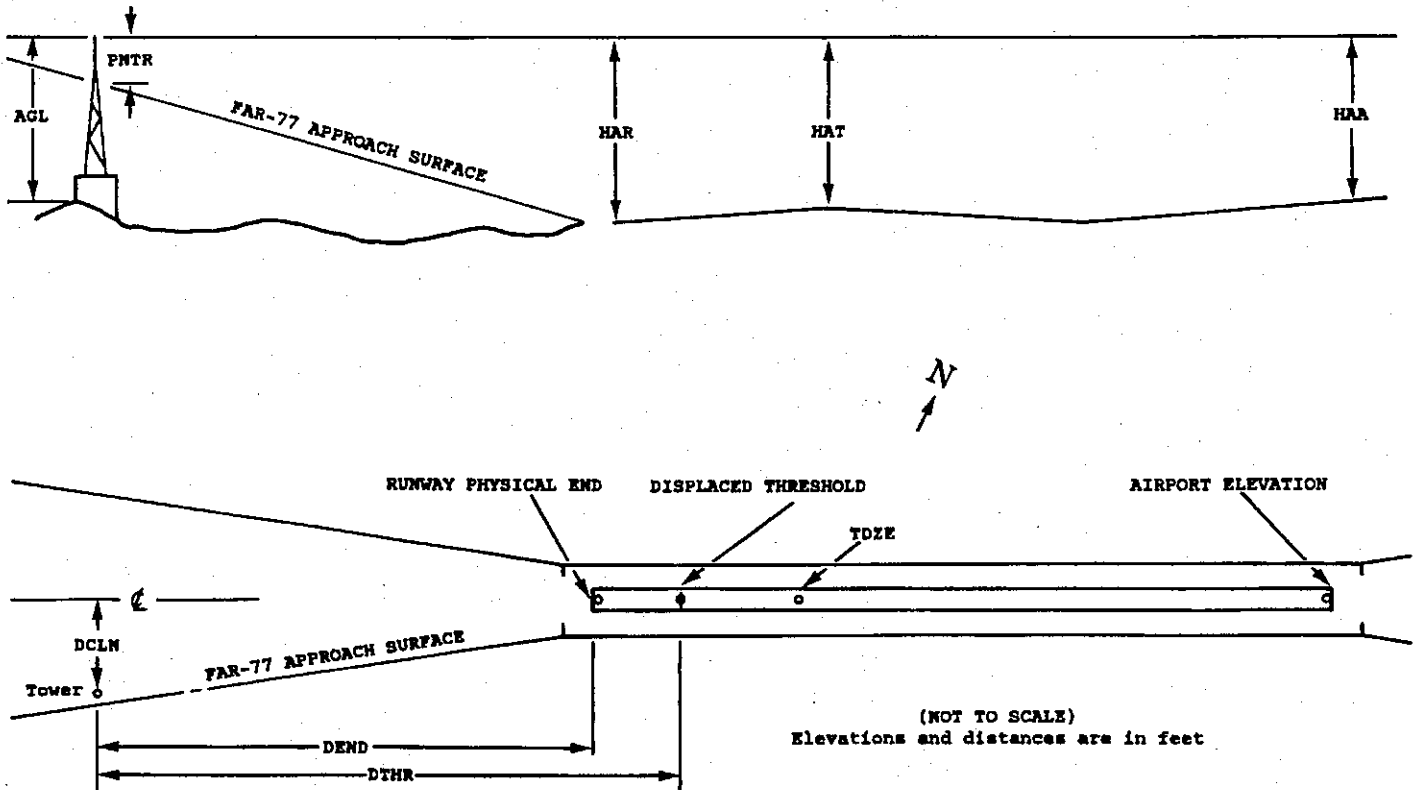
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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

0C0810

AIRPORT ELEVATION 799

16 PIR 799/ 799 461522.861 -842841.146 1495913.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	461442.69	-842814.04	1A	801		2	2	2	-4476		385R	6
BUSH	461450.04	-842821.35	1A	801		2	2	2	-3574		458R	4
ROD ON OL GS	461511.69	-842838.42	1A	829		30	30	30	-1075		400R	31
POST	461517.65	-842840.42	1A	802		3	3	3	-483		220R	4
PIPE	461520.44	-842842.50	1A	802		3	3	3	-165		205R	3
BARRIER	461526.87	-842838.33	1A	799		0	0	0	253		374L	-1
ANT ON BLDG	461529.67	-842853.49	1A	807		8	8	8	1031		406R	-8
TREE	461536.52	-842859.37	1A	822		23	23	23	1839		416R	-9
TREE	461538.58	-842859.51	1A	823		24	24	24	2024		321R	-12
TREE	461553.86	-842859.69	1A	852		53	53	53	3371		443L	-10
TREE	461559.51	-842916.94	1A	863		64	64	64	4472		321R	-21

34 C 793/ 796 461421.309 -842749.907 3295950.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
PIPE	461520.44	-842842.50	1A	802		9	6	3	-7035		205L	3
POST	461517.65	-842840.42	1A	802		9	6	3	-6717		220L	4
ROD ON OL GS	461511.69	-842838.42	1A	829		36	33	30	-6124		400L	31
BUSH	461450.04	-842821.35	1A	801		8	5	2	-3626		458L	4
BUSH	461442.69	-842814.04	1A	801		8	5	2	-2724		385L	6

0C0810

AIRPORT ELEVATION 799

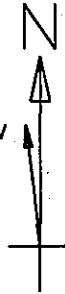
ARP 461452.086 -842815.522

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	461441.23	-842817.48	1A	815		16	19336	1108
ROD ON APBN	461512.32	-842804.77	1A	856		57	2644	2185
TREE	461426.83	-842804.62	1A	807		8	16949	2671
OL BLDG	461446.07	-842733.72	1A	897		98	10812	3000
TREE	461418.89	-842756.20	1A	794		-5	16430	3626
TREE	461416.66	-842755.74	1A	804		5	16518	3848
OL BLDG	461529.00	-842833.81	1A	836		37	34732	3954
ANT	461530.29	-842835.08	1A	845		46	34657	4107
TREE	461405.43	-842748.93	1A	809		10	16454	5082
ANT ON OL TANK	461547.21	-842804.99	1A	954		155	1402	5632
TREE	461544.64	-842915.09	1A	863		64	32819	6772
TREE	461553.29	-842925.18	1A	873		74	32813	7899

ARPT EL 799

91

VAR 6.5° W



7201 X 200 PAVED



ARP (1993)

TOUCHDOWN ZONE
RUNWAY ELEVATION

16	799
34	796

34

EL 793

CHIPPEWA COUNTY INTERNATIONAL AIRPORT

SAULT STE. MARIE, MICHIGAN

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)