# OBSTRUCTION DATA SHEET

ODS 5201
THIEF RIVER FALLS REGIONAL AIRPORT
THIEF RIVER FALLS, MINNESOTA

DIGITIZED FROM

OC 5201 SURVEYED JULY 1991 7TH EDITION



PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
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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 (NGAA) 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 Nr. 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 OC) depict a representation of objects that existed at the time of the OC field survey.

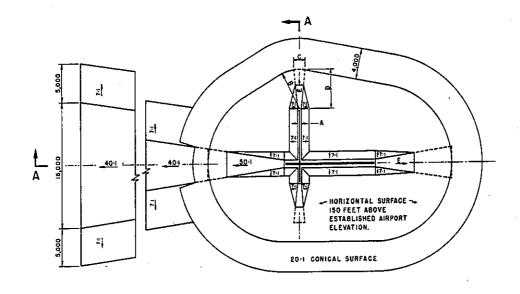
ODS information is arranged as follows:

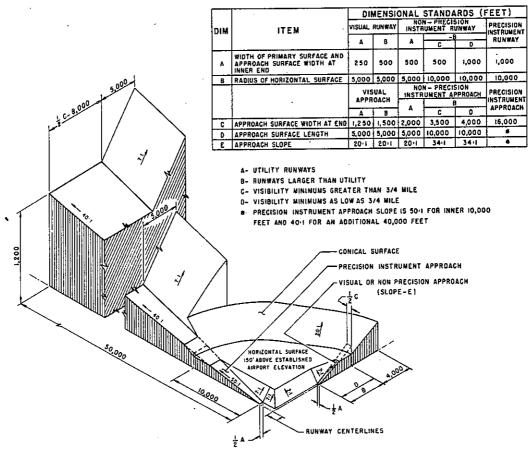
- 1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
- 2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
- 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 (see footnote 2 on page 3):

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

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.

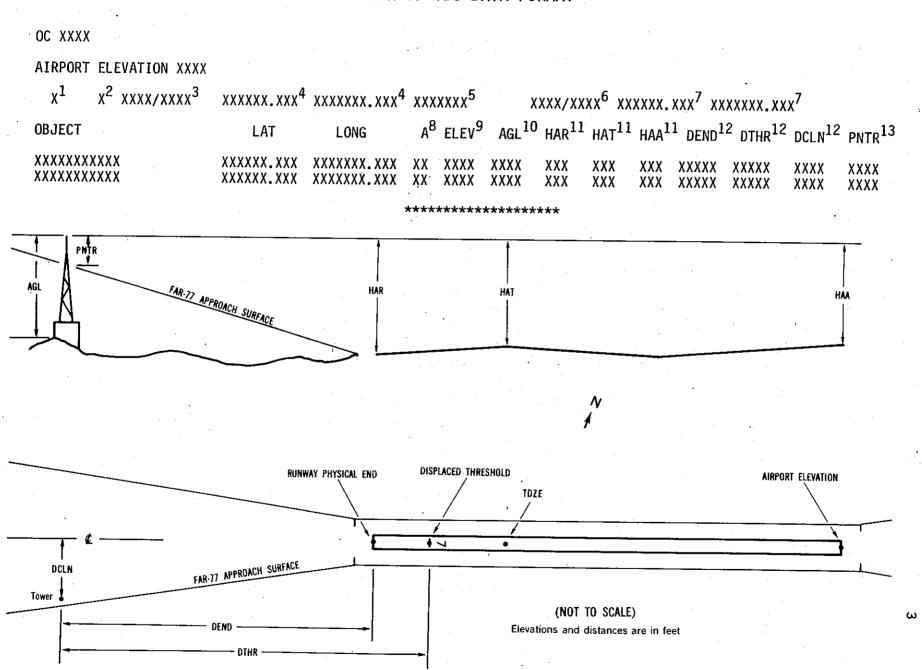




ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

#### ANNOTATION OF ODS DATA FORMAT



#### **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 area 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.)
- Reference runway approach physical end elevation/touchdown zone elevation
- Latitude and longitude of reference runway approach physical end
- Reference runway geodetic azimuth reckoned clockwise from south
- Reference runway displaced threshold elevation/touchdown zone elevation
- 7 Latitude and longitude of reference runway displaced threshold
- <sup>8</sup> Accuracy Code: Horizontal **Vertical** 1 = 20A = 22 = 40B = 5
- Mean Sea Level (MSL) elevation 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). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is  $\pm 10$  feet.
- 11 HAA Height above airport HAR - Height above reference runway approach physical end HAT - Height above reference runway touchdown zone elevation
- 12 DEND Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
  DTHR Distance along reference runway centerline from point perpendicular to object to reference runway 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 object is in primary area on roll-out side of zero distance point.

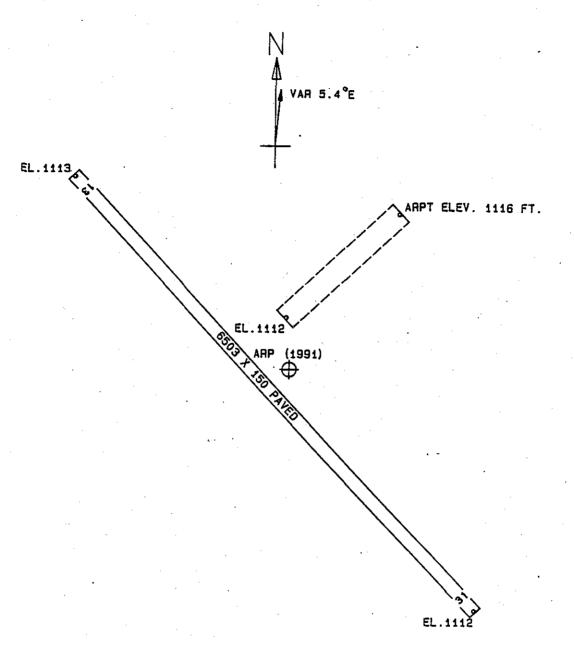
 $^{13}$  PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

## OC5201

## AIRPORT ELEVATION 1116

# 13 C 1113/1114 480415.545N 0961134.972W 3144631

OBJECT	LAT	LONG	A	ELEV	ÄGL	HAR	НАТ	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE TREE TREE BUSH OL LOCALIZER ANTENNA ON BUILDING TREE	480408.20 480409.99 480414.60 480421.45 480423.56	0961042.14 0961134.26 0961136.37 0961141.15 0961143.85 0961141.45 0961147.16	1A 1A 1A 1A	1141 1123 1127 1117 1118 1123 1135		28 10 14 4 5 10 22	27 9 13 3 4 9 21	25 7 11 1 2 7 19	-5453 -558 -329 231 850 885 1735		400R 494R 467R 364R 0R 267L 574L	29 9 13 3 -14 -10 -23
21 DTD 1110/1110 40000												
31 PIR 1112/1113 480330.344N 0961027.026W 1344722												
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	НАТ	HAA	DEND	DTHR	DCLN	PNTR
TREE TREE OL ON GLIDE SLOPE ANTENNA ON OL BUILDING	480408.20 480334.84	0961136.37 0961134.26 0961042.14 0961010.90	lA lA	1127 1123 1141 1123		15 11 29 11	14 10 28 10	11 7 25 7	-6173 -5944 -1049 1593		467L 494L 400L 49L	13 9 29 -17
•		4 44						÷				
ARP 486	0355.917N	0961058.96	зพ				,					
OBJECT	LAT	LONG	}	A	ELI	ev	AGL	НАА	MAG BE	ARING	DISTANC	E
OL WINDSOCK FLOODLIGHT ROD ON OL AIRPORT BEACON ANTENNA ON OL VOR/DME	480356.01 480356.31 480357.16 480409.67	0961046 0961041	.46 .75	1A 1A 1A 1A	113 119 116	52 58		20 36 52 25	and the second second	53 26	333 850 1176 1585	



TOUCHDOWN ZONE RUNWAY ELEVATION

l3 1114 I1 1113

THIEF RIVER FALLS REGIONAL AIRPORT
THIEF RIVER FALLS, MINNESOTA
(NOT TO SCALE)