# OBSTRUCTION DATA SHEET

ODS 5309
SPENCER MUNICIPAL AIRPORT
SPENCER, IOWA

DIGITIZED FROM

OC 5309 SURVEYED SEPTEMBER 1991 1ST EDITION



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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 (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 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:

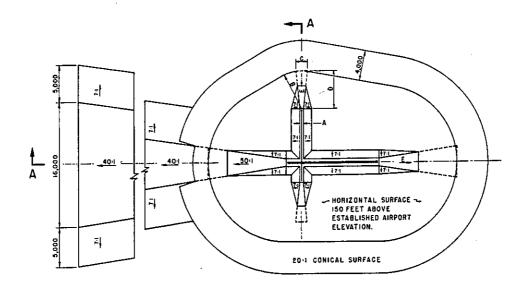
- 1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both 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).
- 3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

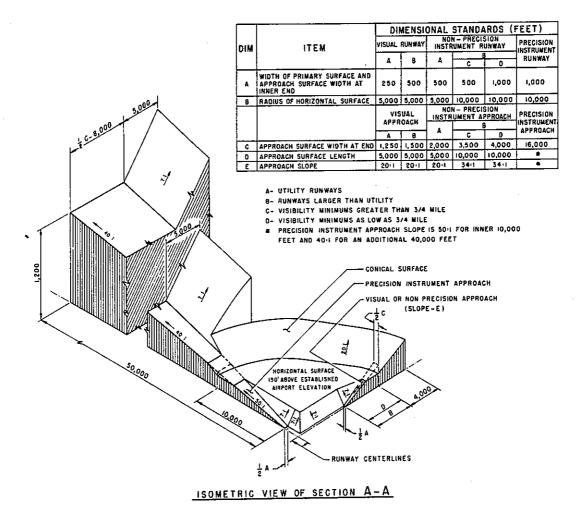
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

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.

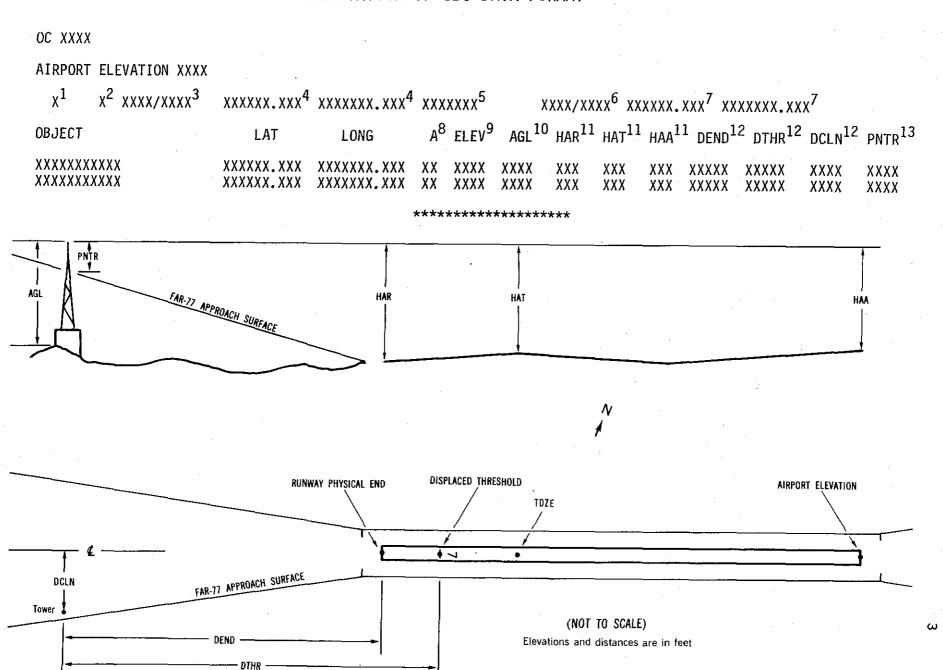
Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.





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.
- <sup>2</sup> 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 Reference runway approach physical end elevation/touchdown zone elevation
- <sup>4</sup> Latitude and longitude of reference runway approach physical end
- <sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south
- 6 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 = 20 A = 2 2 = 40 B = 5 C = 20
- 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.
- 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.
- HAA Height above airport
  HAR Height above reference runway approach physical end
  HAT Height above reference runway touchdown zone elevation
- 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).

## AIRPORT ELEVATION 1338

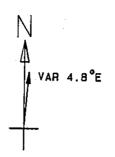
12 PIR 1338/1338 4310	08.866N 09	51231.890W	306	51445								
OBJECT	LAT	LONG	A		AGL	HAR	НАТ	HAA	DEND	. TMILLED	DOLM	
		2010	**	A CTATE	1101	IIM	IIVI	naa	DEMD	DTHR	DCTM	PNTR
GROUND		0951139.30		1335		-3	-3	-3	-5202		502R	2
GROUND TREE		0951138.71	1A	1341		3	3	3	-5113		308R	8
OL ON LIGHTED WINDSOCK		0951143.49	1A	1348		10	10	10	-4685		324R	14
ELECTRIC BOX	430957.58	0951205.15	1A	1357		19	19	19	-2274		250L	:21
ANTENNA ON ELECTRIC BOX		0951224.21 0951234.99	1A	1343		5	5	5	-353		482L	5
	401010.60	0301234.99	1A	1345		7	7	7	591		418L	-1
30 C 1333/1337 430939	.668N 0951	137.494W 1	2615	522	•							
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	T # 75 76	TATURETA	<b>13</b> 1111 115		
	442.4	HONO	23	۸جانت	MGL	ПАК	UNI	HAA	DEND	DTHR	DCLN	PNTR
ELECTRIC BOX	431010.64	0951224.21	1A	1343		10	6	5	-4646		482R	_
OL ON LIGHTED WINDSOCK		0951205.15	1A	1357		24	20	19	-2725		250R	5 21
TREE		0951143.49	1A	1348		15	11	10	-314		324L	14
GROUND		0951138.71	1A	1341		8	4	3	114		308L	8
GROUND		0951139.30	1A	1335		2	-2	- 3	202		502L	2
ROAD (N) ROAD (N)	430940.84	0951127.43	1.A	1347		14	10	9	531		536R	4
ANTENNA ON BUILDING			1A	1347		14	10	9	844		13L	- <u>5</u>
TREE		0951118.64	1A	1385		52	48	47	2074		465L	-3
4.11444	430920.82	0951119.38	IA	1390		57	53	52	2211		745L	-2
		٠.										
26 3/11 3006/3006									•			
36 A(V) 1336/1336 4309	929.535N 09	951211.273W	18	53552								
OBJECT	LAT	LONG	Α	ELEV	AGL	HAR	НАТ	HAA	DEND	DTHR	DCLN	סיויואם.
ROAD (N)	420024 02	0051010 00								DTIM	DCTM	t.MTK
10110 (14)	430924.03	0951212.30	1A	1353		17	17	15	562		21L	-1

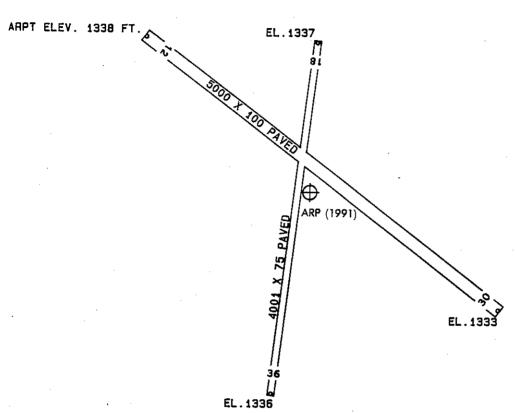
0C5309

### AIRPORT ELEVATION 1338

18	A(V)	1337/1337	431008.857N	09512 6.008W	0053555
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OBJECT	LAT	LONG A	ELEV	AGL	HAR	НАТ	НАА	DEND	DTHR	DCLN PNTR
FENCE	431022.50	0951204.14 1A	1338		1	1	0	1389		3L -58
					÷					
ARP	430952.014N	0951206.446W								
OBJECT	LAT	LONG	A	EL	EV	AGL	HAA	MAG BEA	ARING	DISTANCE
OL ON VOR/DME OL ON AIRPORT BEACON WINDSOCK TREE ANTENNA ON OL RADIO MA ROD OL OL RADIO MAST	430943.94 431003.39 430951.74 430919.94 ST 430933.45 430956.65	0 0951149.4 0951142.7 0951119.0 0951518.5	3 1A 9 1A 5 1A 8 2A	13 13 13 17	68 89 58 98 28	394 406	30 51 20 60 390 381	257 4		866 1708 1754 4784 14364 14880





TOUCHDOWN ZONE RUNWAY ELEVATION 12 1338 30 1337 36 1336 18 1337

SPENCER MUNICIPAL AIRPORT SPENCER, IOWA (NOT TO SCALE)