

OBSTRUCTION DATA SHEET

ODS 136
ENID WOODRING MUNICIPAL AIRPORT
ENID, OKLAHOMA

DIGITIZED FROM

OC 136
SURVEYED JUNE 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.

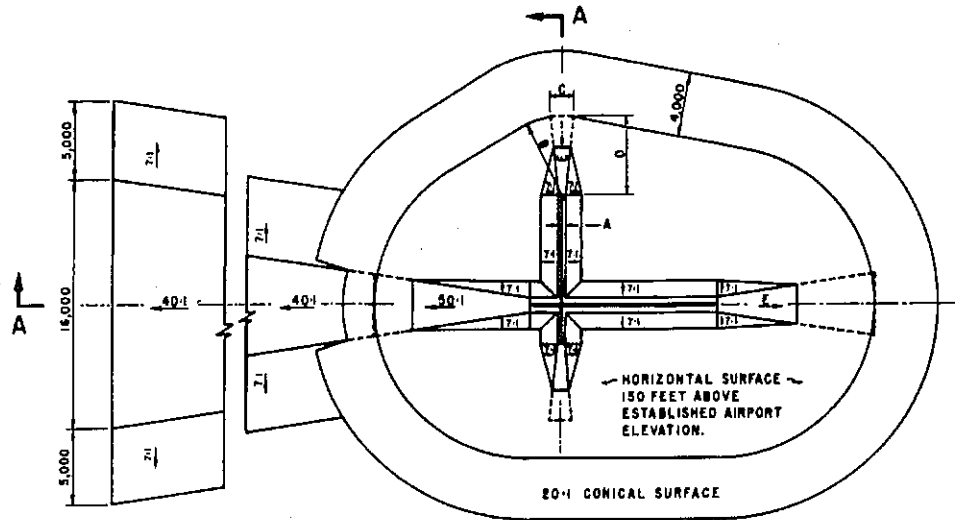
ODS information is arranged as follows:

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:

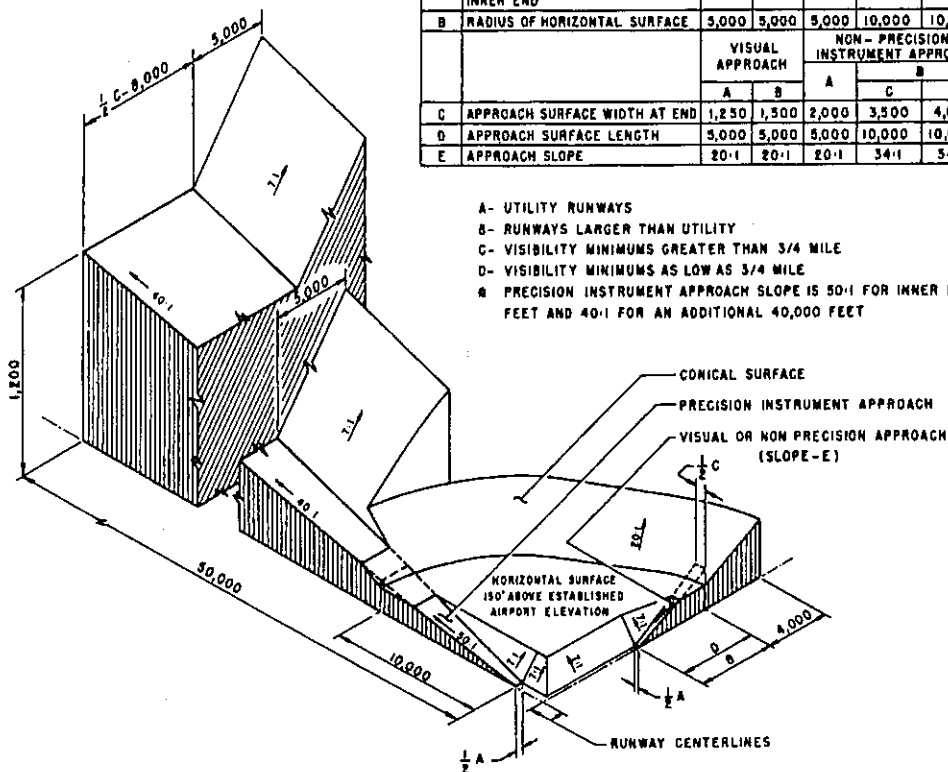
- A(V) Utility runway - visual approach only
- A(NP) Utility runway - nonprecision instrument approach
- B(V) Nonutility runway - visual approach only
- C Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D Nonutility runway- nonprecision instrument 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	B		
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	3,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	18,000
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 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

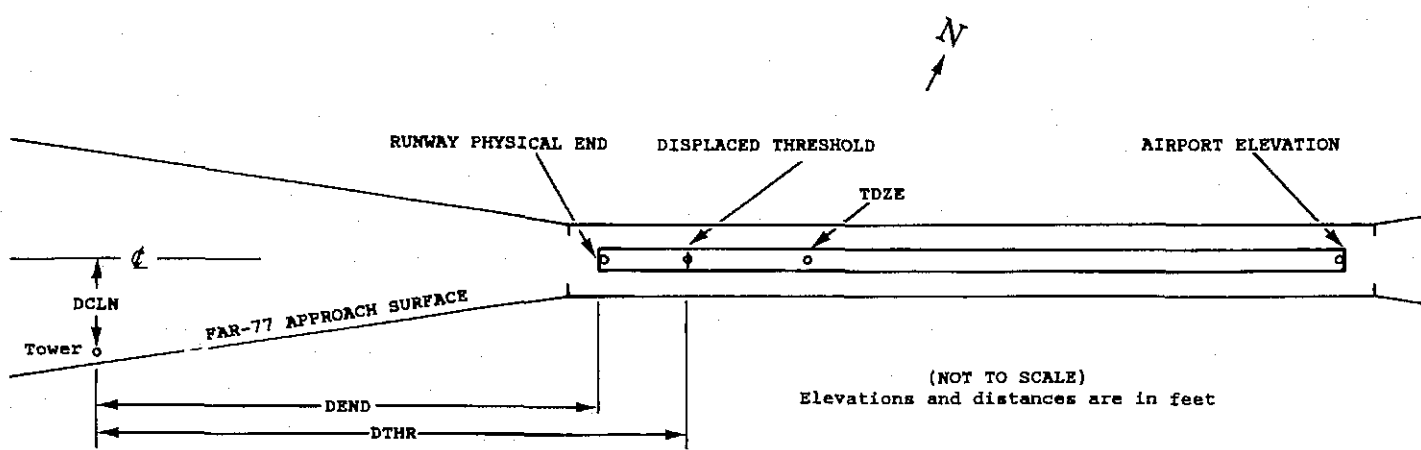
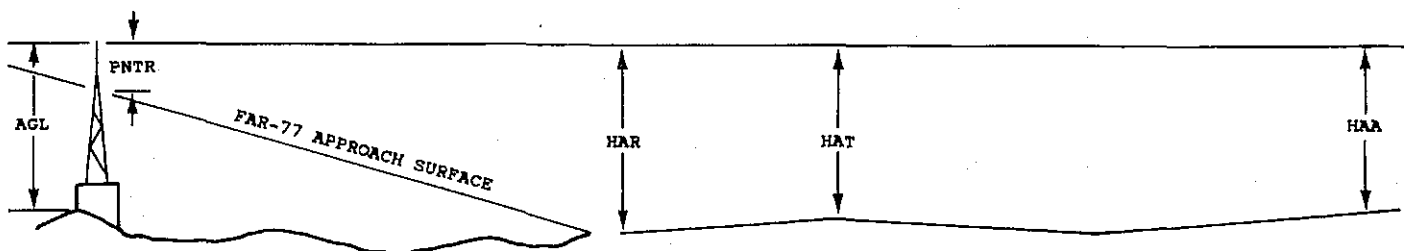
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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

OC0136

AIRPORT ELEVATION 1167

12 SUPLC 1159/1162 362310.445 -974739.599 1350103.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	362310.59	-974743.51	1A	1162		3	0	-5	236		216R	2
POLE	362313.17	-974747.23	1A	1176		17	14	9	636		247R	4
TREE	362318.78	-974749.73	1A	1186		27	24	19	1182		10L	-2
TRMSN POLE	362326.79	-974753.98	1A	1209		50	47	42	2000		337L	-3

30 SUPLC 1157/1158 362231.895 -974651.960 3150131.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	362228.03	-974641.51	1A	1191		34	33	24	880		328R	14
TREE	362222.75	-974643.83	1A	1196		39	38	29	1124		184L	12
TREE	362226.11	-974639.50	1A	1195		38	37	28	1134		308R	11

2 AV 1143/1151 362224.127 -974758.582 335913.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	362211.15	-974811.51	1A	1193		50	42	26	1679		143L	-24

20 AV 1159/1159 362258.776 -974729.692 2135930.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
RAILROAD	362314.17	-974716.84	1A	1191		32	32	24	1878		OR	-52

OC0136

AIRPORT ELEVATION 1167

35 PIR 1145/1151 362210.771 -974727.889 51.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	362315.88	-974723.13	1A	1187		42	36	20	-6584		387R	20
FENCE	362314.71	-974721.88	1A	1175		30	24	8	-6465		490R	8
FENCE	362300.65	-974733.18	1A	1170		25	19	3	-5044		434L	9
ROD ON OL GS	362220.66	-974732.17	1A	1179		34	28	12	-1000		350L	32
BLDG	362200.76	-974722.86	1A	1151		6	0	-16	1012		412R	-10

17 C 1167/ 362313.941 -974727.870 1800051. 1166/1166 362313.062 -974727.870

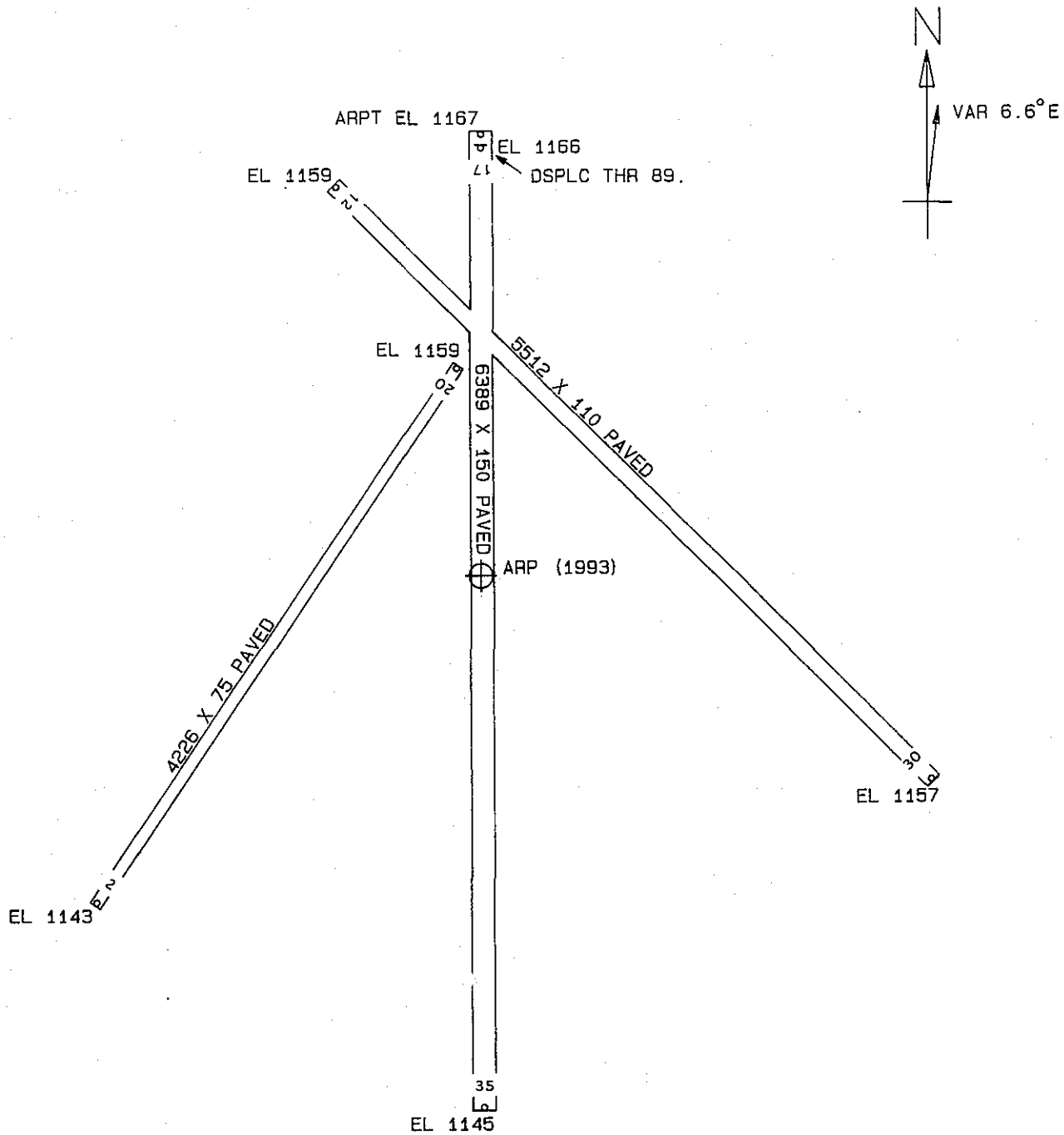
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	362220.66	-974732.17	1A	1179		12	13	12	-5388	-5300	350R	32
FENCE	362300.65	-974733.18	1A	1170		3	4	3	-1344	-1255	434R	9
FENCE	362314.71	-974721.88	1A	1175		8	9	8	78	166	490L	8
ROAD (N)	362315.88	-974723.13	1A	1187		20	21	20	196	285	387L	20
FENCE	362316.05	-974724.36	1A	1174		7	8	7	214	303	287L	7
RAILROAD	362316.21	-974721.74	1A	1189		22	23	22	230	319	501L	21
OL ON LOC	362316.91	-974727.87	1A	1171		4	5	4	300	389	0R	1
ROAD (N)	362317.95	-974728.08	1A	1177		10	11	10	406	495	18R	4
RAILROAD	362318.84	-974728.02	1A	1185		18	19	18	496	585	12R	10
TREE	362320.16	-974731.81	1A	1178		11	12	11	629	718	322R	-1
POLE	362326.36	-974721.50	1A	1189		22	23	22	1256	1345	520L	-9
POLE	362326.38	-974733.34	1A	1189		22	23	22	1258	1347	448R	-9
TRMSN POLE	362335.41	-974732.17	1A	1205		38	39	38	2171	2260	352R	-20

OC0136

AIRPORT ELEVATION 1167

ARP 362245.132 -974728.004

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
FENCE	362234.83	-974721.60	1A	1153		-14	14642	1166
ANT ON OL ATCT	362258.58	-974715.00	1A	1234		67	3125	1726
TREE	362301.73	-974735.49	1A	1179		12	33321	1787
BUSH	362238.14	-974704.59	1A	1171		4	10338	2041
OL ON VOR/DME	362225.58	-974717.23	1A	1179		12	14922	2165
OL ON HANGAR	362307.12	-974716.30	1A	1197		30	1640	2421
APBN	362305.16	-974709.58	1A	1220		53	3002	2525
FENCE	362308.23	-974742.51	1A	1167		0	32629	2620
TREE	362229.19	-974653.51	1A	1176		9	11308	3249
FENCE	362212.25	-974721.65	1A	1149		-18	16430	3366
TREE	362209.03	-974719.17	1A	1167		0	16212	3721
TREE	362228.85	-974640.70	1A	1201		34	10627	4204
TREE	362216.96	-974812.92	1A	1193		26	22536	4648
OL REFINERY	362243.49	-974545.67	1B	1413	217	246	8431	8369
OL REFINERY	362248.24	-974545.26	1B	1419	218	252	8114	8407
STROBE ON DERRICK	362331.74	-974912.56	1A	1358	200	191	29216	9762



TOUCHDOWN ZONE RUNWAY ELEVATION	
12	1162
30	1158
2	1151
20	1159
35	1151
17	1166

ENID WOODRING MUNICIPAL AIRPORT
 ENID, OKLAHOMA
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)