

OBSTRUCTION DATA SHEET

**ODS 202
HURON REGIONAL AIRPORT
HURON, SOUTH DAKOTA**

DIGITIZED FROM

**OC 202
SURVEYED SEPTEMBER 1991
8TH EDITION**



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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 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:

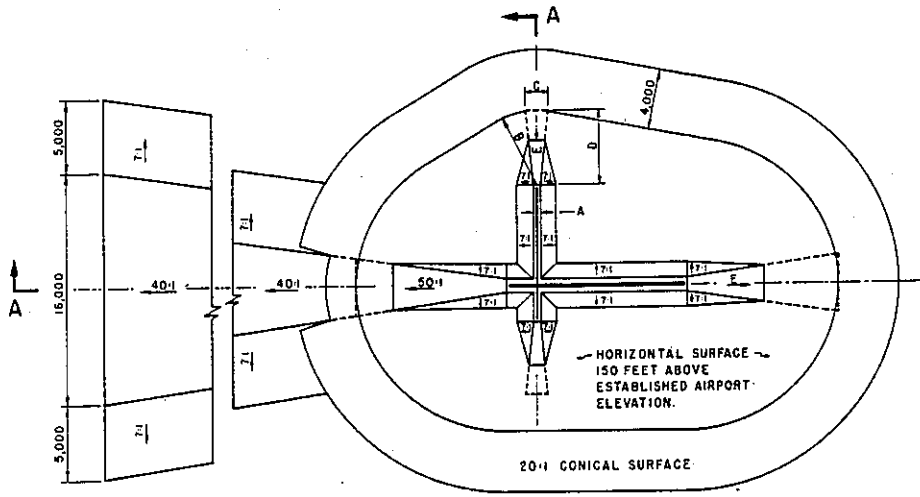
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the 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)

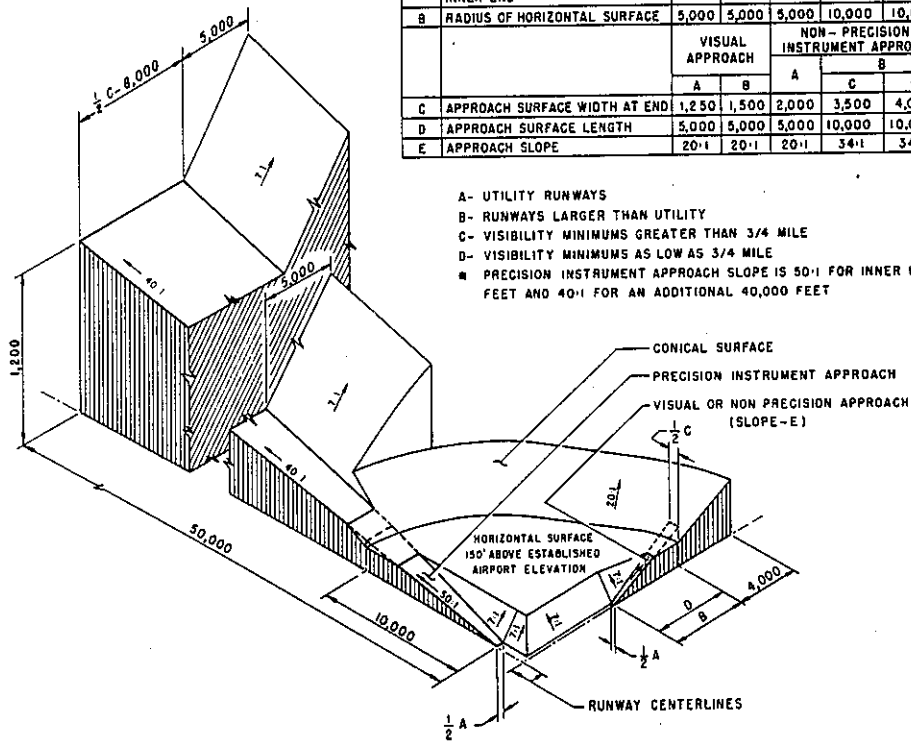
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	B	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	300	500	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	B	
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	*

- 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

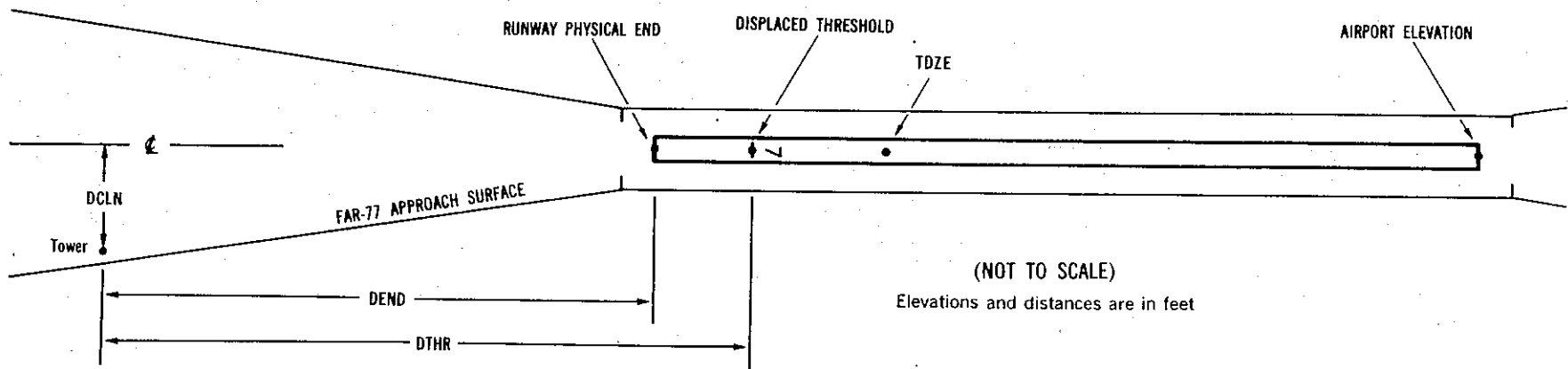
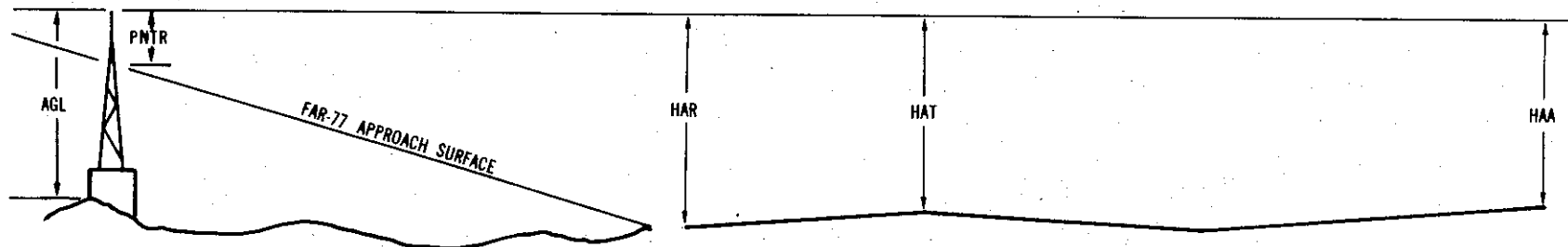
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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



(NOT TO SCALE)

Elevations and distances are in feet

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 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.)
- ³ Reference runway approach physical end elevation/touchdown zone elevation
- ⁴ Latitude and longitude of reference runway approach physical end
- ⁵ 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
- ⁸ Accuracy Code:
- | | Horizontal | Vertical |
|--|------------|----------|
| | 1 = 20 | A = 2 |
| | 2 = 40 | B = 5 |
| | | C = 20 |
- ⁹ 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 ± 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).

OC0202

AIRPORT ELEVATION 1288

12 PIR 1288/1288 442332.712N 0981427.805W 3080403

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	442253.20	0981322.50	1A	1293		5	5	5	-6201		226R	10
GROUND	442254.41	0981327.54	1A	1286		-2	-2	-2	-5837		355R	2
ROD ON OL STAND	442315.45	0981406.41	1A	1304		16	16	16	-2301		418R	17
ROD ON STAND	442317.66	0981412.61	1A	1304		16	16	16	-1809		520R	17
OL ON LIGHTED WINDSOCK	442328.38	0981415.09	1A	1296		8	8	8	-997		224L	8
OL ON GLIDE SLOPE	442323.71	0981420.71	1A	1316		28	28	28	-968		400R	28
ANTENNA ON BUILDING	442335.36	0981442.09	1A	1300		12	12	12	982		428R	-4
TREE	442356.06	0981520.80	1A	1366		78	78	78	4488		511R	-8
TREE	442354.98	0981524.83	1A	1369		81	81	81	4650		777R	-8

30 C 1283/1285 442248.866N 09813 9.758W 1280457

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	442323.71	0981420.71	1A	1316		33	31	28	-6232		400L	28
OL ON LIGHTED WINDSOCK	442328.38	0981415.09	1A	1296		13	11	8	-6203		224R	8
ROD ON STAND	442317.66	0981412.61	1A	1304		21	19	16	-5391		520L	17
ROD ON OL STAND	442315.45	0981406.41	1A	1304		21	19	16	-4899		418L	17
GROUND	442254.41	0981327.54	1A	1286		3	1	-2	-1363		355L	2
OL ON LIGHTED WINDSOCK	442253.20	0981322.50	1A	1293		10	8	5	-999		226L	10
GROUND	442250.40	0981302.59	1A	1286		3	1	-2	314		443R	-1
VENT ON TANK	442247.64	0981256.40	1A	1306		23	21	18	840		500R	4
ANTENNA ON LIGHT POLE	442246.44	0981253.11	1A	1313		30	28	25	1103		552R	3
OL ON DME	442244.22	0981255.42	1A	1305		22	20	17	1110		272R	-5
OL LOCALIZER	442241.86	0981257.30	1A	1296		13	11	8	1150		0L	-15
OL ON POLE	442235.50	0981257.66	1A	1318		35	33	30	1527		524L	-4
OL ON POLE	442240.26	0981246.92	1A	1322		39	37	34	1843		338R	-9
OL TOWER	442235.29	0981251.75	1A	1325		42	40	37	1878		276L	-7
TREE	442231.52	0981246.63	1A	1332		49	47	44	2406		347L	-16

OC0202

AIRPORT ELEVATION 1288

17 A(V) 1286/1287 442313.694N 0981330.964W 3594045

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	442319.60	0981331.09	1A	1301		15	14	13	598		6R	-5
TREE	442327.80	0981331.78	1A	1335		49	48	47	1429		52R	-12

35 A(V) 1284/1287 442244.065N 0981330.732W 1794045

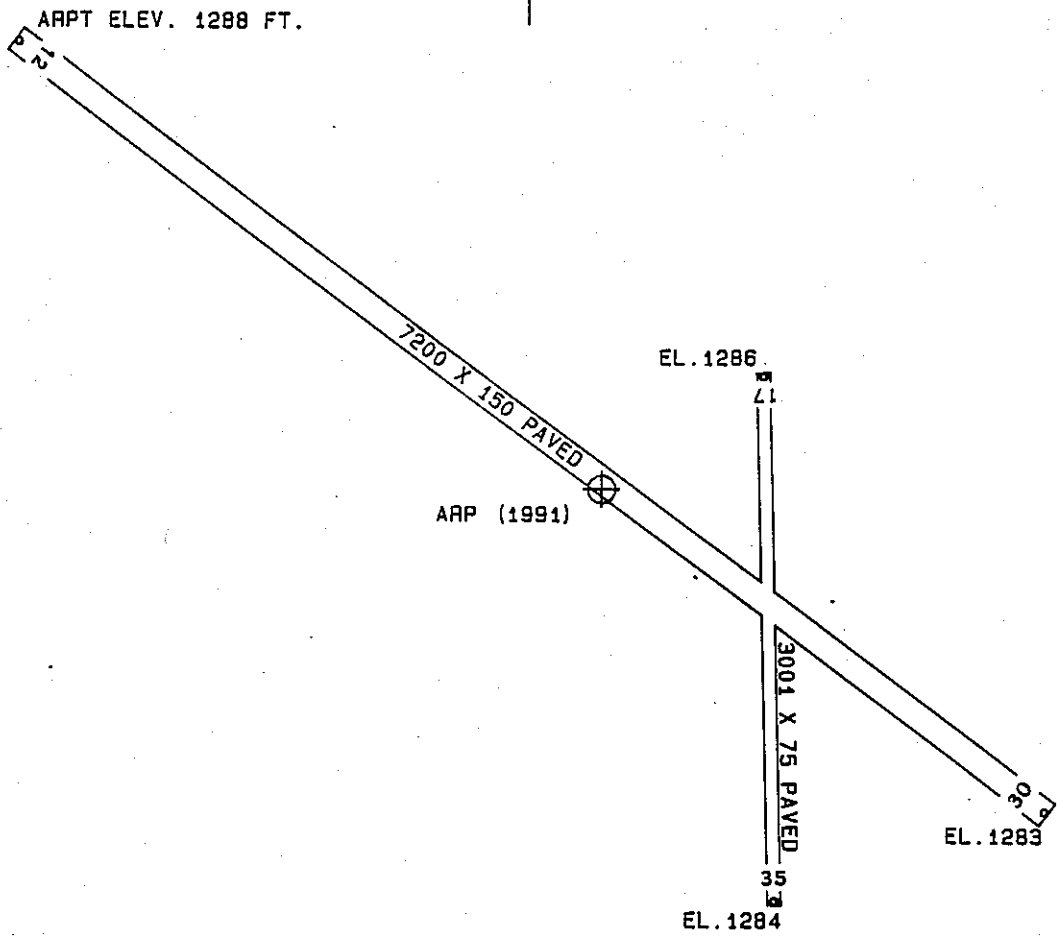
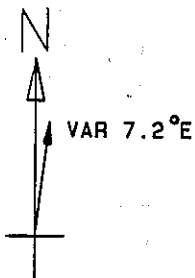
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	442226.90	0981327.13	1A	1340		56	53	52	1739		252R	-21
RAILROAD	442224.64	0981326.55	1A	1306		22	19	18	1968		293R	-66

OC0202

AIRPORT ELEVATION 1288

ARP 442307.287N 0981343.504W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	442317.23	0981345.78	1A	1310		22	343 28	1020
ROD ON ANEMOMETER	442317.45	0981341.74	1A	1305		17	359 53	1037
OL ON LIGHTED WINDSOCK	442254.84	0981338.60	1A	1312		24	157 2	1310
TREE	442311.32	0981401.37	1A	1315		27	280 17	1360
TREE	442314.42	0981325.96	1A	1331		43	53 15	1465
FLOODLIGHT	442306.22	0981322.48	1A	1327		39	86 51	1530
ANTENNA	442308.56	0981322.31	1A	1338		50	78 1	1544
TREE	442319.87	0981327.83	1A	1321		33	34 35	1709
TREE	442319.06	0981325.85	1A	1339		51	39 52	1751
TREE	442324.56	0981353.06	1A	1335		47	331 10	1882
ROAD (N)	442323.05	0981358.31	1A	1299		11	318 51	1924
ROD ON AIRPORT BEACON	442306.05	0981316.17	1A	1339		51	86 25	1989
ROD ON OL DF	442250.31	0981325.20	1A	1323		35	135 5	2173
ANTENNA ON OL RTR TOWER	442301.05	0981311.99	1A	1356		68	98 14	2375
ROD ON OL RADAR DOME	442305.47	0981305.86	1A	1354		66	86 39	2740
TREE	442239.77	0981338.45	1A	1344		56	165 18	2811
BUSH	442240.46	0981328.33	1A	1297		9	150 43	2932
TREE	442240.46	0981313.36	1A	1337		49	133 56	3489
RAILROAD	442235.47	0981301.10	1A	1308		20	129 6	4457
TREE	442246.18	0981248.83	1A	1338		50	111 5	4510
OL WATER TANK	442226.43	0981306.44	1B	1397		109	139 45	4936
OL ON BUILDING	442228.57	0981251.50	1A	1336		48	128 52	5444
ANTENNA ON OL BUILDING	442212.53	0981355.25	1A	1485	202	197	181 33	5611
TREE	442226.10	0981250.76	1A	1345		57	130 14	5664
OL ON BUILDING	442227.18	0981510.21	1B	1406		118	229 59	7493
ANTENNA ON BUILDING	442143.96	0981252.09	1B	1426		138	148 55	9228
ANTENNA ON OL RADIO TOWER	442136.19	0981359.92	2A	1509	230	221	180 10	9302
OL TANK	442135.74	0981329.49	1B	1425		137	166 32	9327
TANK	442134.81	0981242.06	1B	1415		127	147 19	10374



TOUCHDOWN ZONE	
RUNWAY	ELEVATION
12	1288
30	1285
17	1287
35	1287

HURON REGIONAL AIRPORT
 HURON, SOUTH DAKOTA
 (NOT TO SCALE)