

OBSTRUCTION DATA SHEET

**ODS 5027
CUYAHOGA COUNTY AIRPORT
CLEVELAND, OHIO**

DIGITIZED FROM

**OC 5027
SURVEYED OCTOBER 1991
5TH 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:

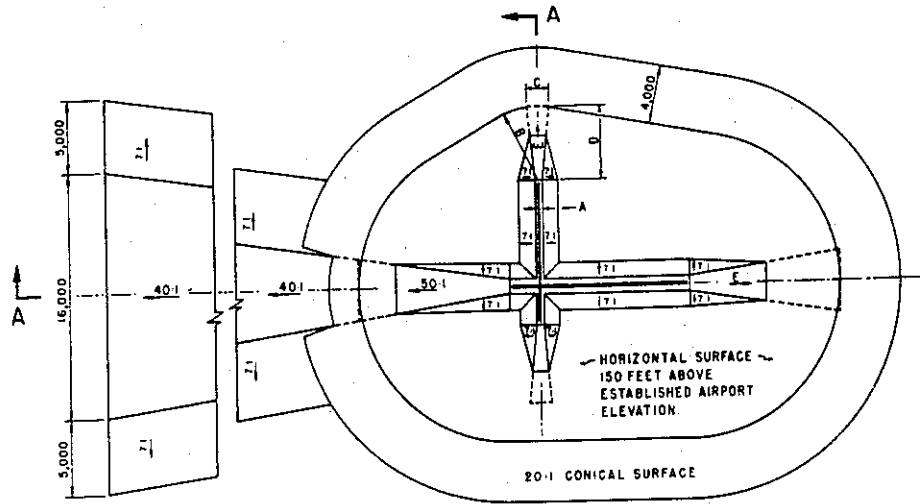
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

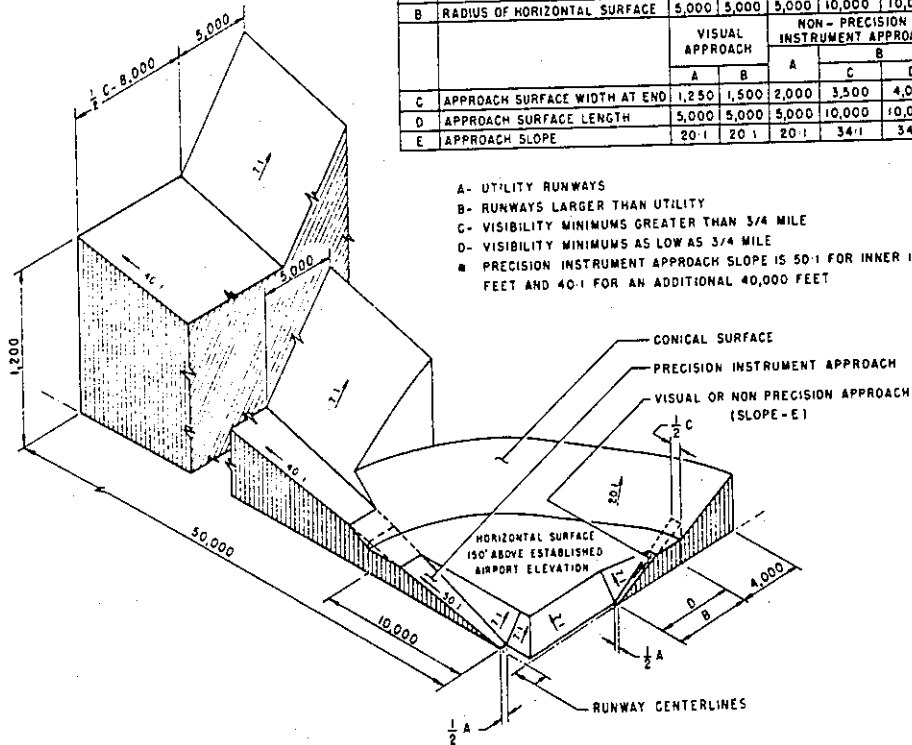
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	B		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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	B		D
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

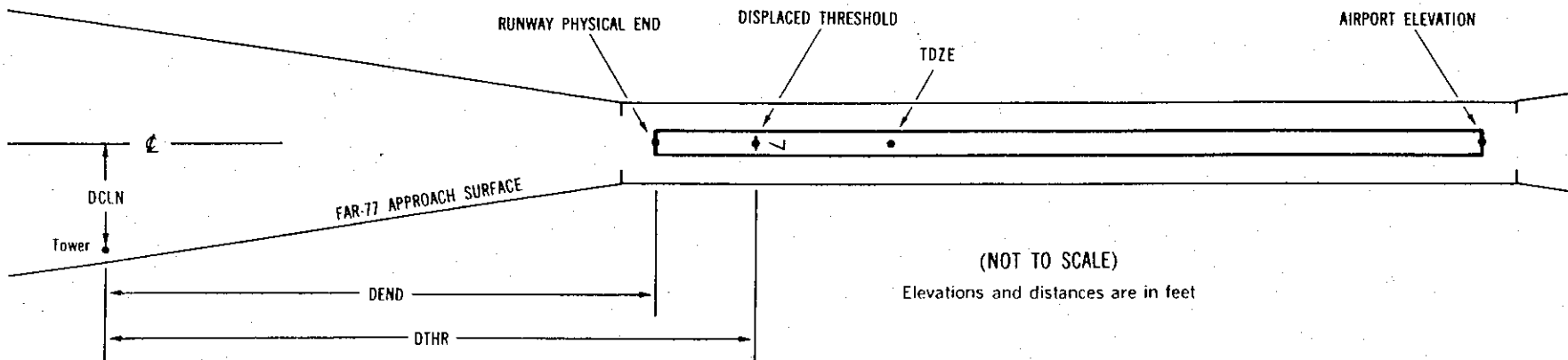
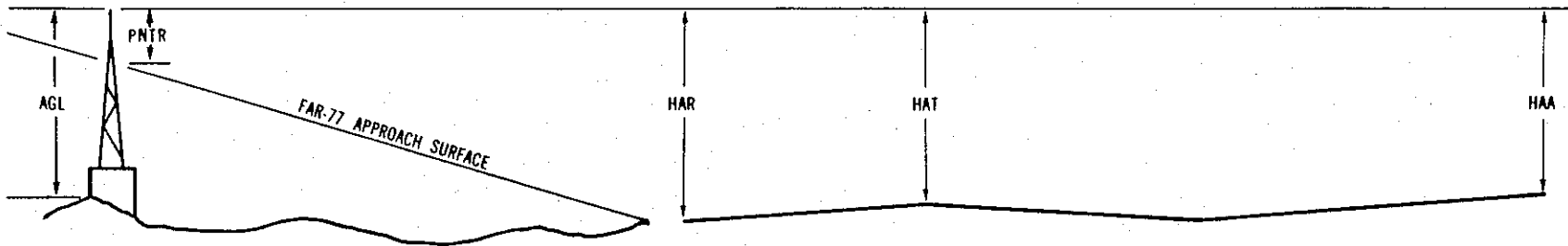
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXXX.XXX ⁴	XXXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXXXX.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
XXXXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	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 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).

OC5027

AIRPORT ELEVATION 879

5 C 873/873 413337.891N 0812936.948W 2292821

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WINDSOCK	413406.32	0812857.37	1A	877		4	4	-2	-4157		233L	7
OL ON GLIDE SLOPE	413400.63	0812854.42	1A	904		31	31	25	-3953		351R	35
OL ON ANEMOMETER	413357.22	0812917.35	1A	880		7	7	1	-2404		519L	14
OL ON ANEMOMETER	413348.26	0812914.21	1A	891		18	18	12	-1996		325R	27
TREE	413336.50	0812950.39	1A	914		41	41	35	868		557L	21
POLE	413335.07	0812949.93	1A	895		22	22	16	935		424L	1
OL ON DME	413329.74	0812945.69	1A	896		23	23	17	1042		195R	-2
TREE	413332.54	0812957.74	1A	916		43	43	37	1553		616L	3
TREE	413321.01	0812949.46	1A	947		74	74	68	1834		681R	26
TREE	413329.55	0813001.05	1A	941		68	68	62	1942		549L	17
TREE	413320.47	0812951.16	1A	968		95	95	89	1967		638R	43
TREE	413325.87	0812958.19	1A	934		61	61	55	2018		124L	8
TREE	413320.54	0812953.13	1A	964		91	91	85	2076		535R	36
TREE	413322.36	0812956.02	1A	941		68	68	62	2124		252R	11
TREE	413322.62	0813000.04	1A	945		72	72	66	2339		34R	9
TREE	413325.14	0813003.22	1A	948		75	75	69	2357		317L	12
TREE	413317.71	0813002.42	1A	960		87	87	81	2799		294R	11

OC5027

AIRPORT ELEVATION 879

23 FIR 879/879 413410.638N 0812845.939W 0492854

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON ANEMOMETER	413348.26	0812914.21	1A	891		12	12	12	-3105		325L	27
OL ON ANEMOMETER	413357.22	0812917.35	1A	880		1	1	1	-2697		519R	14
OL ON GLIDE SLOPE	413400.63	0812854.42	1A	904		25	25	25	-1148		351L	35
OL ON WINDSOCK	413406.32	0812857.37	1A	877		-2	-2	-2	-944		233R	7
LIGHT STANDARD	413418.77	0812842.77	1A	887		8	8	8	718		469R	-2
POLE	413419.70	0812841.55	1A	890		11	11	11	850		481R	-2
TREE	413426.31	0812833.29	1A	911		32	32	32	1761		581R	1
TREE	413418.75	0812816.85	1A	940		61	61	61	2215		812L	21
TREE	413420.61	0812817.22	1A	960		81	81	81	2316		651L	39
TREE	413432.86	0812826.32	1A	947		68	68	68	2595		742R	20
TREE	413430.47	0812811.63	1A	940		61	61	61	3286		168L	-1
TREE	413429.16	0812806.77	1A	980		101	101	101	3481		509L	35
TREE	413437.85	0812808.57	1A	954		75	75	75	3949		249R	1
TREE	413436.57	0812804.88	1A	982		103	103	103	4078		32L	25

OC5027

AIRPORT ELEVATION 879

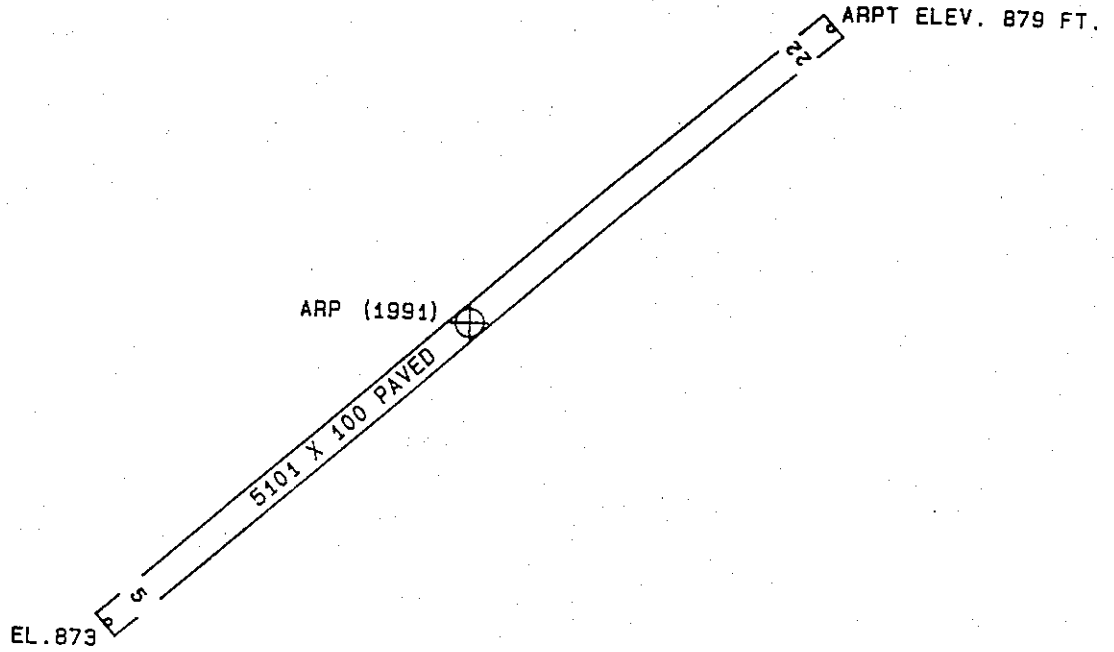
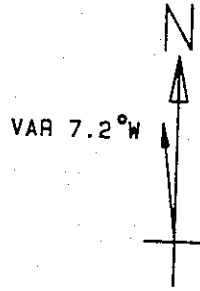
ARP 413354.265N 0812911.446W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
ANTENNA	413401.61	0812920.51	1A	907		28	324	22	1014
ANTENNA ON OL HANGAR	413355.12	0812929.04	1A	922		43	280	53	1340
OL ON WINDSOCK	413349.74	0812929.13	1A	892		13	258	23	1420
ANTENNA & APBN ON OL ATCT	413339.92	0812905.57	1A	968		89	170	5	1519
TREE	413335.77	0812924.60	1A	961		82	215	19	2122
TREE	413413.03	0812857.17	1A	937		58	36	57	2187
ANTENNA ON HANGAR	413348.06	0812939.21	1A	925		46	260	38	2202
TREE	413333.13	0812927.75	1A	985		106	217	18	2473
TREE	413415.30	0812854.27	1A	936		57	38	43	2497
TREE	413406.48	0812839.21	1A	941		62	70	26	2745
TREE	413419.50	0812847.42	1A	941		62	42	46	3140
TREE	413327.75	0812937.82	1A	944		65	223	58	3350
TREE	413337.99	0812950.15	1A	913		34	247	57	3372
TREE	413408.63	0812830.76	1A	960		81	72	1	3418
TREE	413336.39	0812957.44	1A	942		63	249	51	3937
TREE	413331.99	0813000.80	1A	947		68	246	12	4377
TREE	413412.04	0812818.79	1A	976		97	73	0	4388
TREE	413416.84	0812820.64	1A	917		38	66	35	4488
TREE	413319.63	0812948.66	1A	974		95	226	6	4505
TREE	413416.97	0812816.34	1A	964		85	68	27	4778
TREE	413301.09	0812823.88	1B	1043		164	153	18	6484
TREE	413257.41	0812830.32	1B	1044		165	158	41	6549
TREE	413317.11	0812755.87	1B	1047		168	130	24	6867
TREE	413258.75	0812809.08	1B	1036		157	147	2	7352
ANTENNA ON BUILDING	413234.49	0812942.18	1B	1068		189	203	21	8406
TREE	413247.47	0812804.26	1B	1058		179	150	7	8474
TREE	413235.84	0812955.63	1B	1054		175	210	8	8620
TREE	413323.15	0812724.72	1B	1045		166	118	24	8703
TREE	413223.93	0812847.52	1B	1075		196	175	57	9323
VENT ON BUILDING	413224.04	0812938.91	1B	1064		185	200	5	9368
TREE	413226.39	0812953.76	1B	1062		183	207	5	9459
POLE	413220.57	0812926.06	1B	1060		181	193	53	9548
TREE	413239.81	0812754.01	1B	1052		173	149	12	9563

AIRPORT ELEVATION 879

ARP 413354.265N 0812911.446W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	413216.87	0812918.01	1B	1100		221	190 6	9870
ROD ON BUILDING	413214.84	0812909.77	1B	1076		197	186 28	10064
TREE	413212.61	0812920.86	1B	1102		223	191 11	10314
TREE	413311.02	0812700.51	1B	1049		170	120 56	10874
TREE	413206.61	0812949.68	1B	1069		190	202 8	11278
TREE	413215.46	0813027.10	1B	1045		166	217 7	11537
TREE	413152.00	0812911.64	2C	1121		242	187 16	12375



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
5	873
23	879

CUYAHOGA COUNTY AIRPORT
CLEVELAND, OHIO
(NOT TO SCALE)