OBSTRUCTION DATA SHEET

ODS 5703
LORAIN COUNTY REGIONAL AIRPORT
LORAIN / ELYRIA, OHIO

DIGITIZED FROM

OC 5703
SURVEYED OCTOBER 1991
2ND 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).

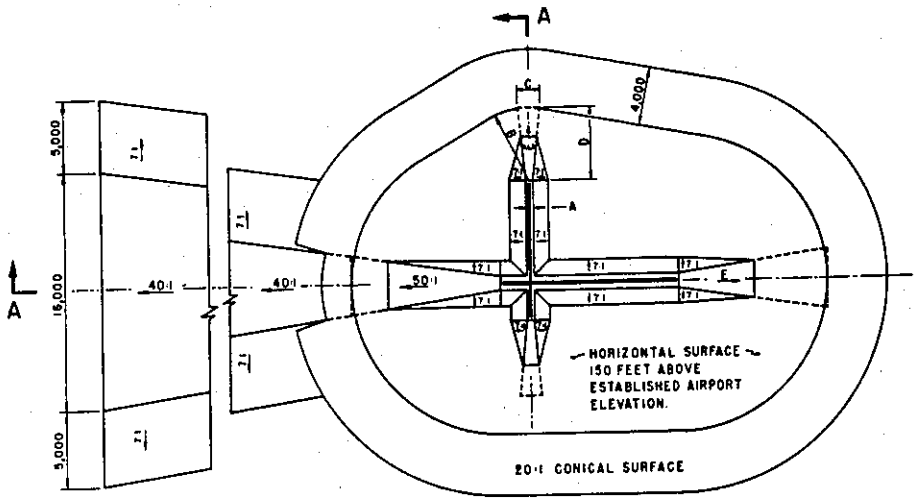
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

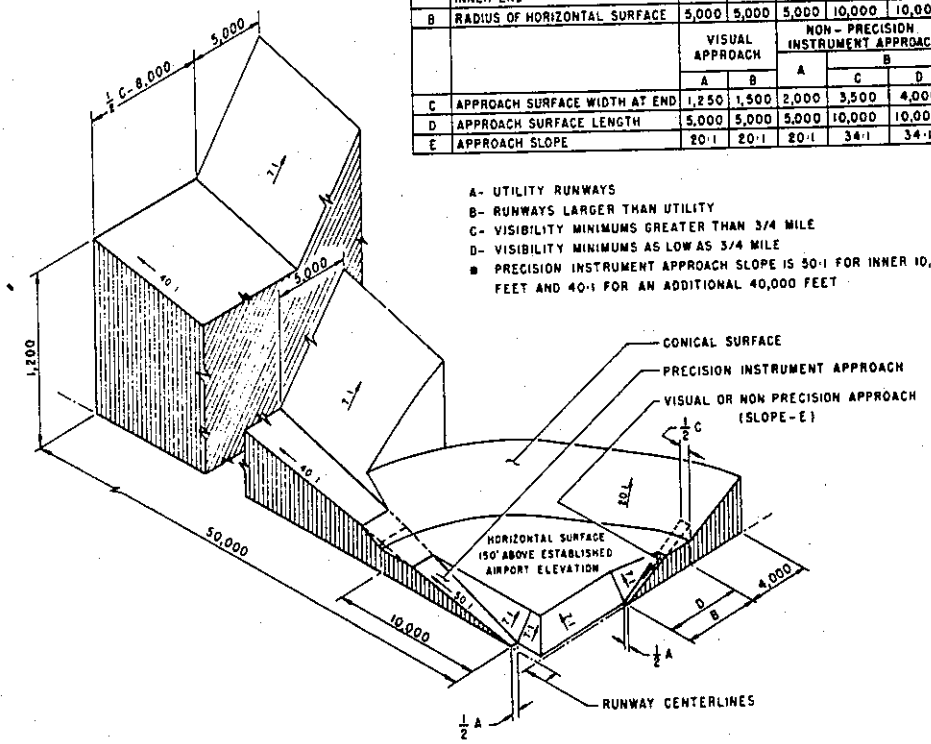
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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 C	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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B C	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] 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]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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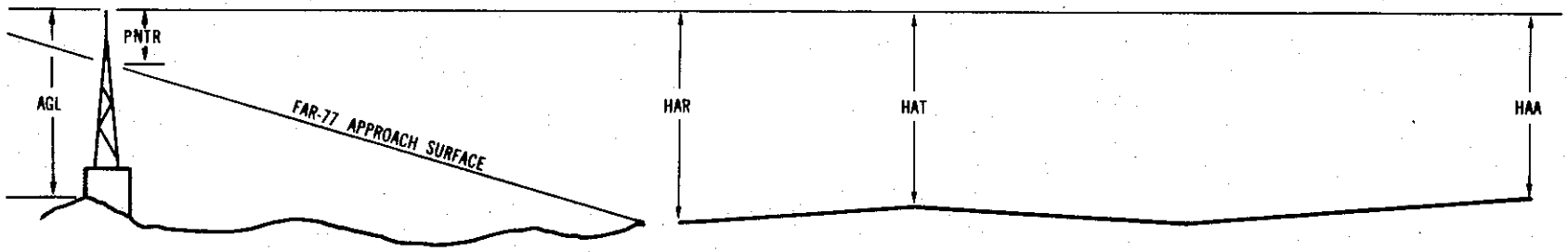
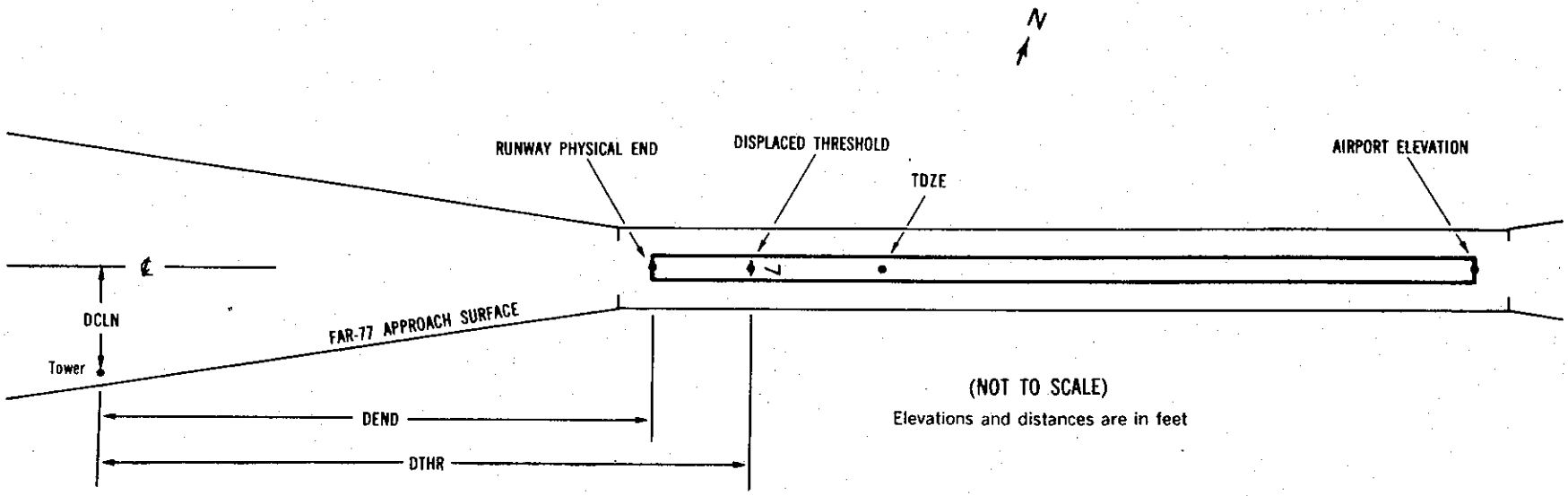




(NOT TO SCALE)

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).

OC5703

AIRPORT ELEVATION 794

7 PIR 794/794 412028.777N 08211 9.626W 2445954

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL WINDSOCK	412040.78	0821048.09	1A	817		23	23	23	-2002		407L	25
ROD ON OL GLIDE SLOPE	412037.64	0821059.93	1A	822		28	28	28	-1049		500L	29
BUSH	412030.56	0821119.14	1A	809		15	15	15	581		470L	7
TREE	412029.99	0821124.14	1A	813		19	19	19	952		579L	4
TREE	412015.92	0821124.62	1A	838		44	44	44	1587		696R	16
TREE	412017.17	0821131.03	1A	833		39	39	39	1977		375R	3
TREE	412026.14	0821137.16	1A	843		49	49	49	2016		646L	13
TREE	412026.72	0821139.89	1A	848		54	54	54	2180		787L	14
TREE	412021.52	0821137.25	1A	843		49	49	49	2220		224L	9
TREE	412023.19	0821139.09	1A	854		60	60	60	2276		437L	18
TREE	412014.97	0821154.58	1A	867		73	73	73	3699		183L	3
TREE	412007.49	0821200.28	1A	859		65	65	65	4413		319R	-19

25 SUPLC 788/791 412049.651N 0821010.216W 0650034

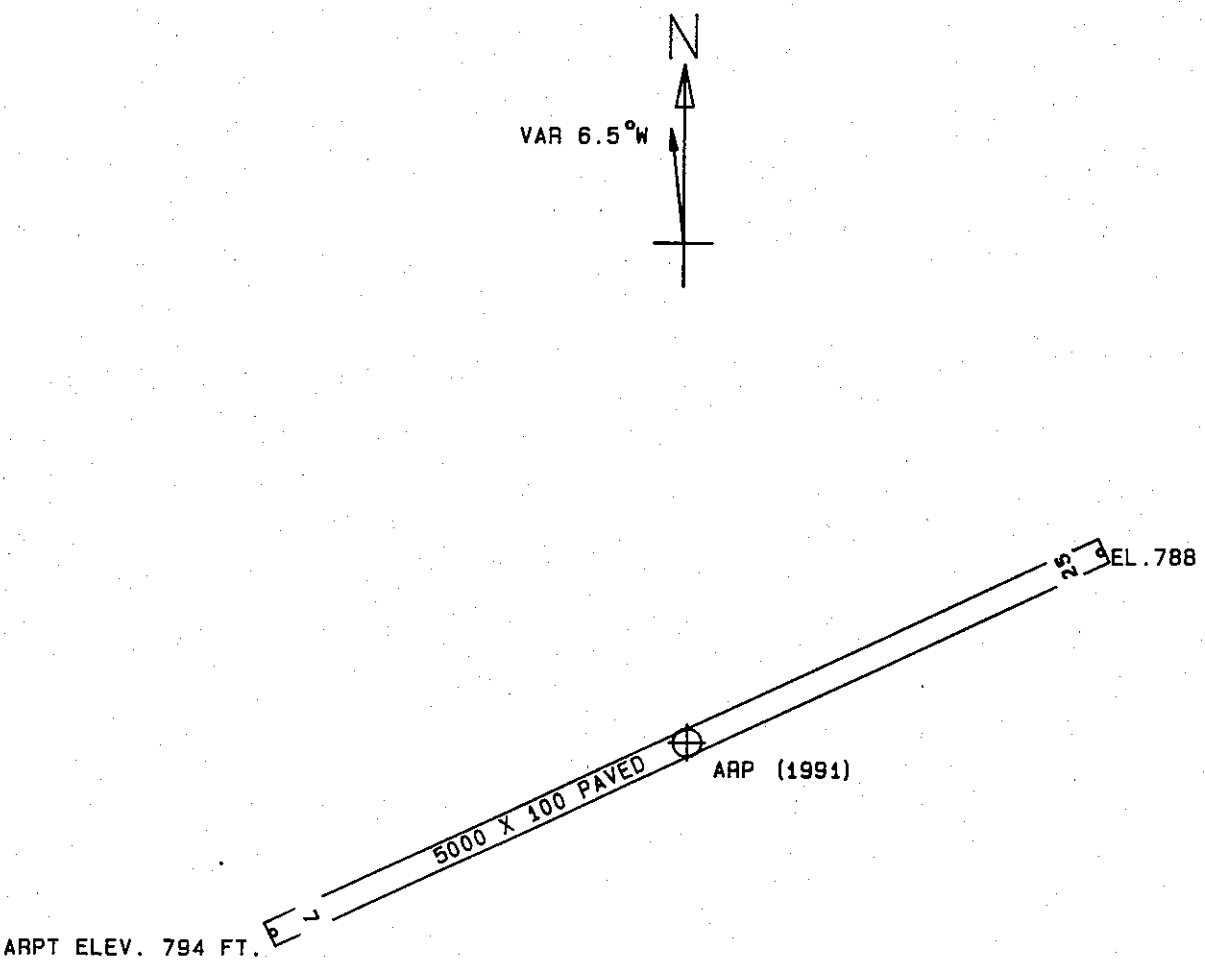
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GLIDE SLOPE	412037.64	0821059.93	1A	822		34	31	28	-3951		500R	29
OL WINDSOCK	412040.78	0821048.09	1A	817		29	26	23	-2997		407R	25
OL ON LOCALIZER	412052.98	0821000.74	1A	792		4	1	-2	798		0R	-14
TREE	412051.10	0820957.01	1A	823		35	32	29	975		293L	12
TREE	412051.14	0820955.88	1A	834		46	43	40	1054		326L	21
TREE	412058.84	0821000.22	1A	827		39	36	33	1084		521R	13
TREE	412055.07	0820956.44	1A	836		48	45	42	1184		53R	19
TREE	412056.18	0820956.97	1A	836		48	45	42	1195		172R	19
TREE	412050.24	0820951.82	1A	847		59	56	53	1297		538L	27
TREE	412058.50	0820956.91	1A	836		48	45	42	1298		383R	16
TREE	412053.53	0820945.80	1A	861		73	70	67	1854		431L	24
TREE	412051.64	0820944.29	1A	865		77	74	71	1878		653L	28

OC5703

AIRPORT ELEVATION 794

ARP 412039.215N 0821039.922W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL AIRPORT BEACON	412043.01	0821049.57	1A	817		23	304 2	830
LIGHT STANDARD	412027.65	0821042.40	1A	832		38	195 40	1186
ANTENNA	412025.74	0821042.93	1A	838		44	196 3	1383
LIGHT STANDARD	412023.66	0821053.30	1A	834		40	219 28	1876
TREE	412038.89	0821106.06	1A	851		57	275 34	1994
TREE	412035.87	0821108.36	1A	814		20	267 38	2196
TREE	412040.23	0821006.77	1A	840		46	94 10	2531
TREE	412022.76	0821106.66	1A	812		18	237 16	2633
TREE	412038.09	0821003.31	1A	887		93	98 50	2795
TREE	412034.53	0821118.48	1A	836		42	267 20	2979
TREE	412046.48	0820957.08	1A	877		83	83 49	3350
TREE	412058.86	0821003.74	1A	832		38	60 44	3402
TREE	412032.91	0821124.08	1A	846		52	265 46	3429
POLE	412014.74	0821120.17	1A	828		34	237 37	3945
ANTENNA	412044.88	0820810.32	1B	909		115	93 37	11425
OL ANTENNA	412244.26	0821025.11	2A	1052	296	258	11 36	12706



TOUCHDOWN ZONE RUNWAY	ELEVATION
7	794
25	791

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LORAIN / ELYRIA, OHIO

(NOT TO SCALE)