

OBSTRUCTION DATA SHEET

**ODS 5460
PORTER COUNTY MUNICIPAL AIRPORT
VALPARAISO, INDIANA**

DIGITIZED FROM

**OC 5460
SURVEYED OCTOBER 1990
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:

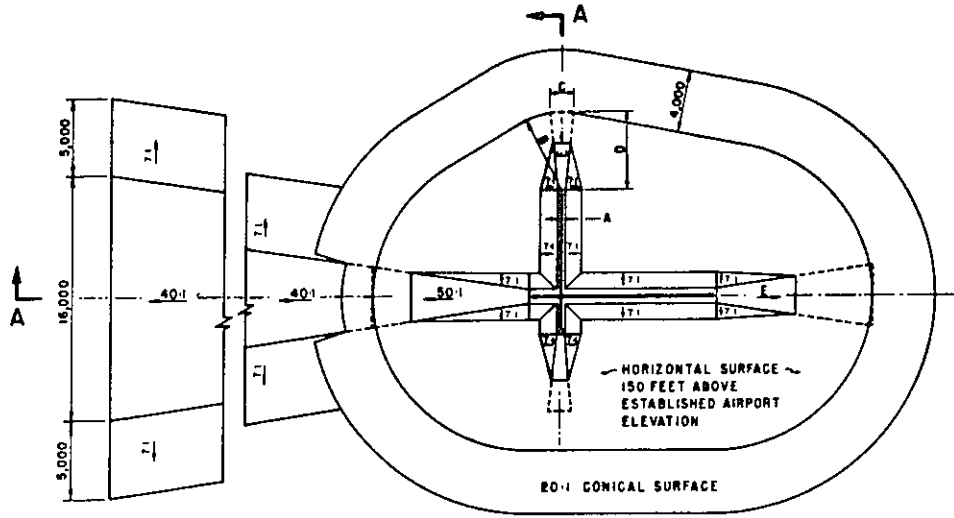
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

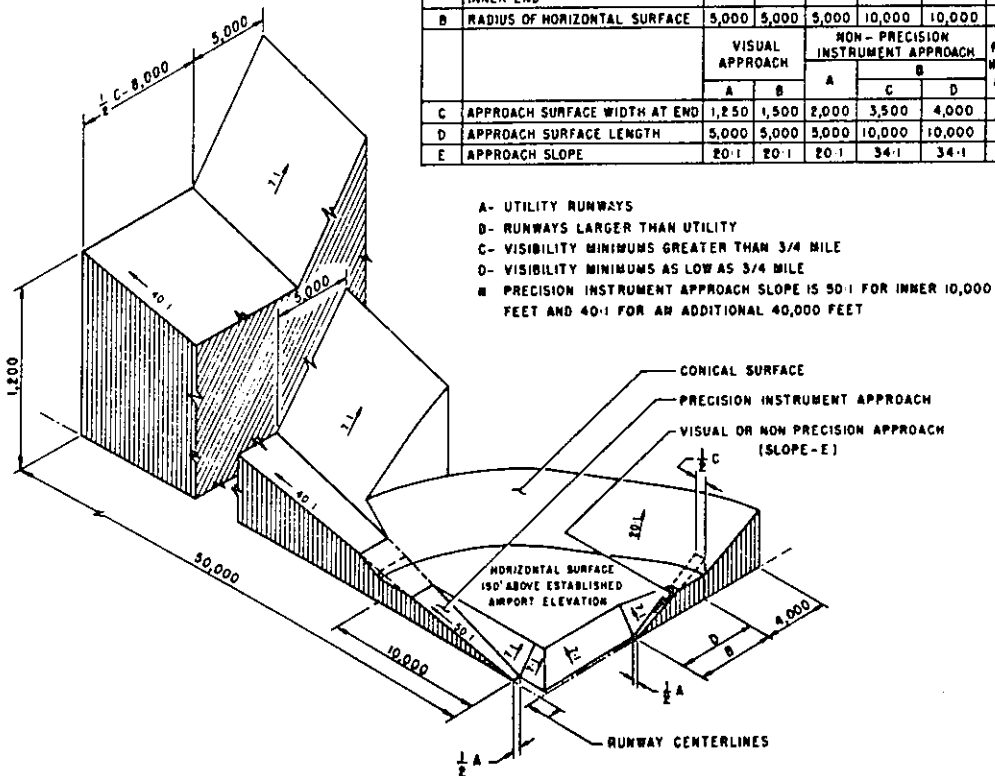
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach 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	C	D	
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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	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
- D- 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

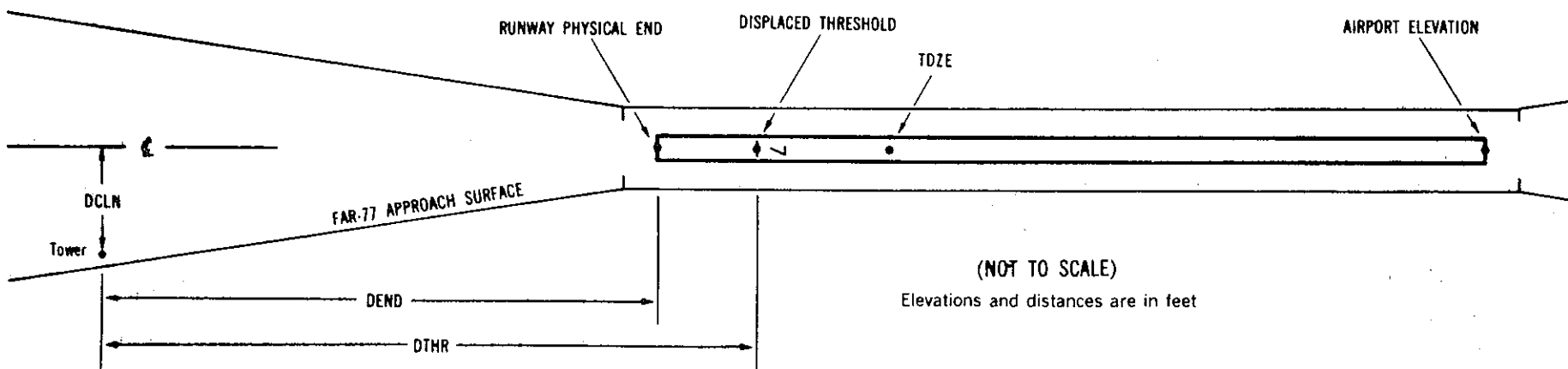
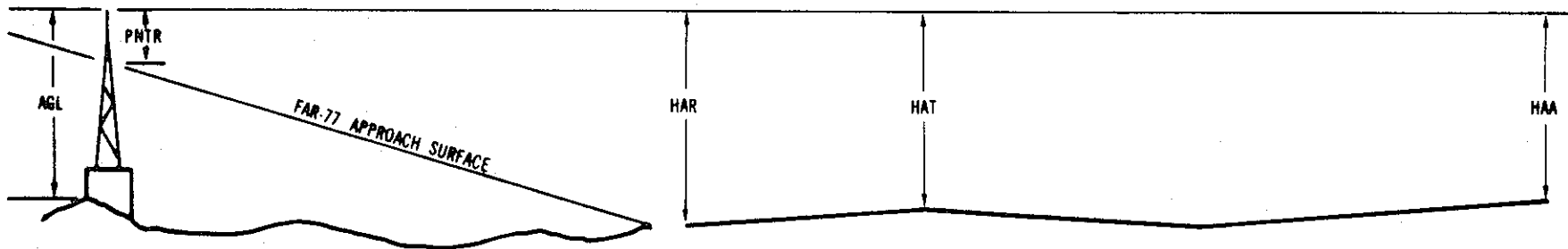
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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
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).

OC5460

AIRPORT ELEVATION 770

9 C 767/767 412708.539N 0870058.381W 2700700

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	412713.35	0865936.95	1A	769		2	2	-1	-6200		500L	1
OL GLIDE SLOPE	412712.38	0865952.04	1A	817		50	50	47	-5051		400L	47
GROUND	412703.85	0865952.60	1A	769		2	2	-1	-5010		464R	-1
GROUND	412711.77	0865954.98	1A	773		6	6	3	-4828		337L	4
GROUND	412703.79	0870009.47	1A	767		0	0	-3	-3726		473R	2
GROUND	412713.25	0870009.84	1A	771		4	4	1	-3696		485L	7
GROUND	412711.53	0870101.19	1A	766		-1	-1	-4	214		302L	-1
GROUND	412711.68	0870103.84	1A	772		5	5	2	417		317L	-1
ANTENNA ON BUILDING	412705.92	0870105.66	1A	780		13	13	10	554		266R	3
OL ON LOCALIZER	412708.55	0870105.69	1A	778		11	11	8	556		0L	1
GROUND	412709.39	0870107.49	1A	778		11	11	8	694		85L	-4
TREE	412702.35	0870125.93	1A	822		55	55	52	2096		631R	-1
TREE	412704.61	0870127.60	1A	828		61	61	58	2224		402R	1

27 PIR 769/770 412708.411N 0865939.591W 0900752

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	412711.53	0870101.19	1A	766		-3	-4	-4	-6214		302R	-1
GROUND	412713.25	0870009.84	1A	771		2	1	1	-2304		485R	7
GROUND	412703.79	0870009.47	1A	767		-2	-3	-3	-2274		473L	2
GROUND	412711.77	0865954.98	1A	773		4	3	3	-1172		337R	4
GROUND	412703.85	0865952.60	1A	769		0	-1	-1	-990		464L	-1
OL GLIDE SLOPE	412712.38	0865952.04	1A	817		48	47	47	-949		400R	47
GROUND	412713.35	0865936.95	1A	769		0	-1	-1	200		500R	1
ANTENNA ON BUILDING	412704.31	0865926.38	1A	781		12	11	11	1007		413L	-4
TREE	412701.36	0865914.08	1A	787		18	17	17	1944		709L	-17
TRANSMISSION TOWER	412721.10	0865826.00	1A	865		96	95	95	5601		1297R	-12

OC5460

AIRPORT ELEVATION 770

17 A(V) 760/ 412717.835N 0870029.879W 3501432

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	412722.46	0870030.90	1A	773		13		3	474		3L	-1
TREE	412739.08	0870031.37	1A	840		80		70	2138		253L	-17

35 A(V) 759/ 412700.339N 0870025.880W 1701434

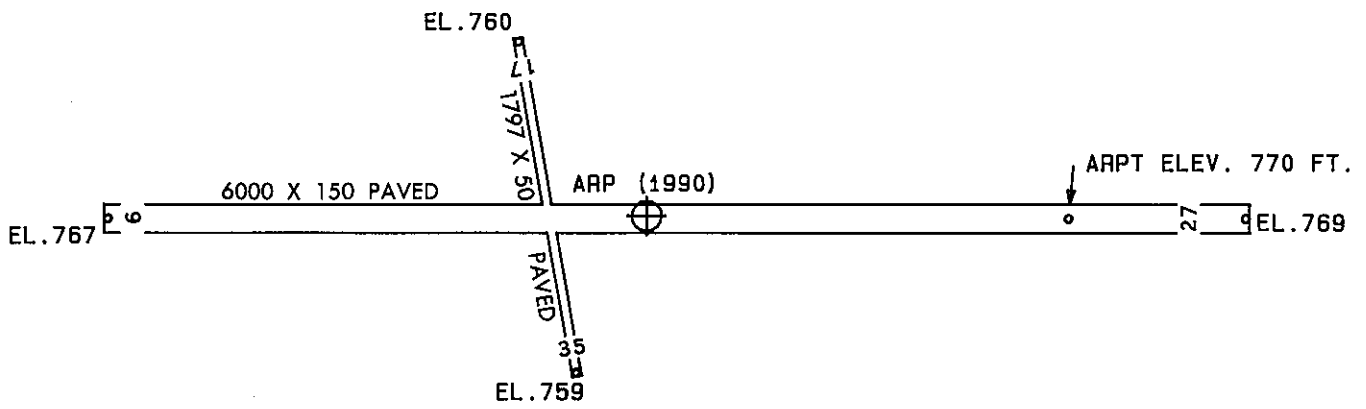
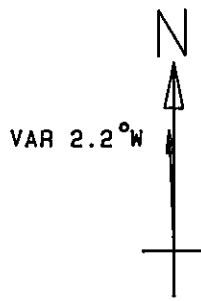
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	412655.89	0870027.02	1A	789		30		19	429		162L	19
ROAD (N)	412656.17	0870024.90	1A	771		12		1	429		2R	1
POLE	412648.34	0870024.56	1A	793		34		23	1214		107L	-17

OC5460

AIRPORT ELEVATION 770

ARP 412708.617N 0870021.035W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
POLE	412716.13	0870009.63	1A	804		34	51	1	1154
TREE	412656.10	0870022.43	1A	790		20	187	0	1271
TREE	412718.75	0870009.59	1A	848		78	42	32	1346
ROD ON OL AIRPORT BEACON	412658.41	0870032.74	1A	809		39	222	59	1364
TREE	412722.69	0870028.31	1A	809		39	340	57	1528
TREE	412722.70	0870033.56	1A	790		20	328	24	1715
TREE	412722.65	0870034.57	1A	816		46	326	14	1755
TREE	412650.46	0870027.37	1A	798		28	196	55	1900
OL ON HANGAR	412702.06	0870052.31	1A	790		20	256	38	2473
OL ON TANK	412719.35	0870052.19	1A	816		46	296	48	2609
TREE	412658.73	0865940.28	1A	835		65	110	4	3261
TREE	412722.18	0865938.03	1A	846		76	69	27	3551
TREE	412700.12	0865930.12	1A	822		52	104	42	3971
TREE	412700.72	0865923.59	1A	807		37	102	33	4447
WATER TANK	412842.64	0870000.37	1B	905		135	11	35	9645
OL ON TANK	412834.64	0870138.84	1B	935		165	327	58	10531
CROSS ON TOWER	412746.18	0870232.78	1B	942		172	292	58	10728
OL ON RADIO TOWER	412633.84	0870250.85	1A	995	203	225	255	4	11940
OL ON RADIO TOWER	412634.83	0870254.40	1A	994	200	224	255	54	12170
OL ON MICROWAVE TOWER	412834.64	0870303.66	2A	1054	249	284	307	20	15136



TOUCHDOWN ZONE RUNWAY ELEVATION	
9	767
27	770

PORTER COUNTY MUNICIPAL AIRPORT
VALPARAISO, INDIANA
(NOT TO SCALE)