

OBSTRUCTION DATA SHEET

**ODS 5212
MONTGOMERY COUNTY AIRPARK
GAITHERSBURG, MARYLAND**

DIGITIZED FROM

**OC 5212
SURVEYED OCTOBER 1989
1ST 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:

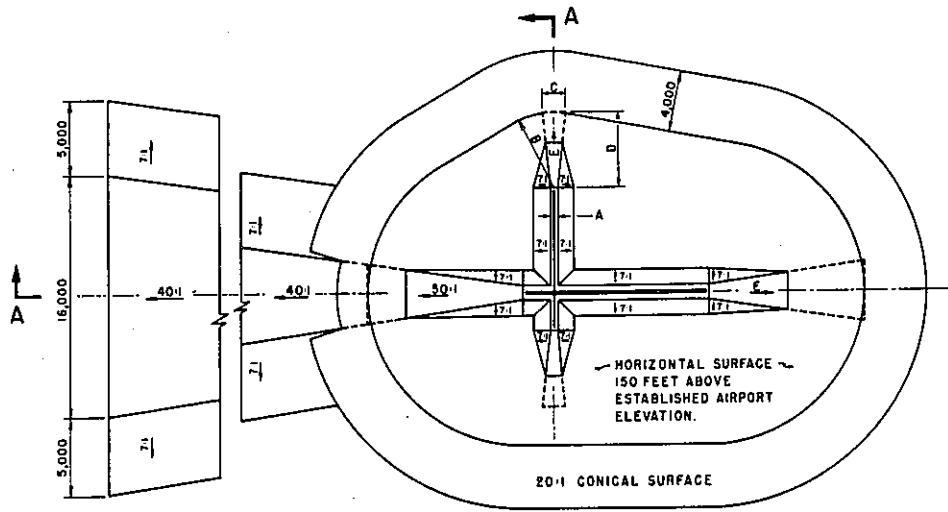
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

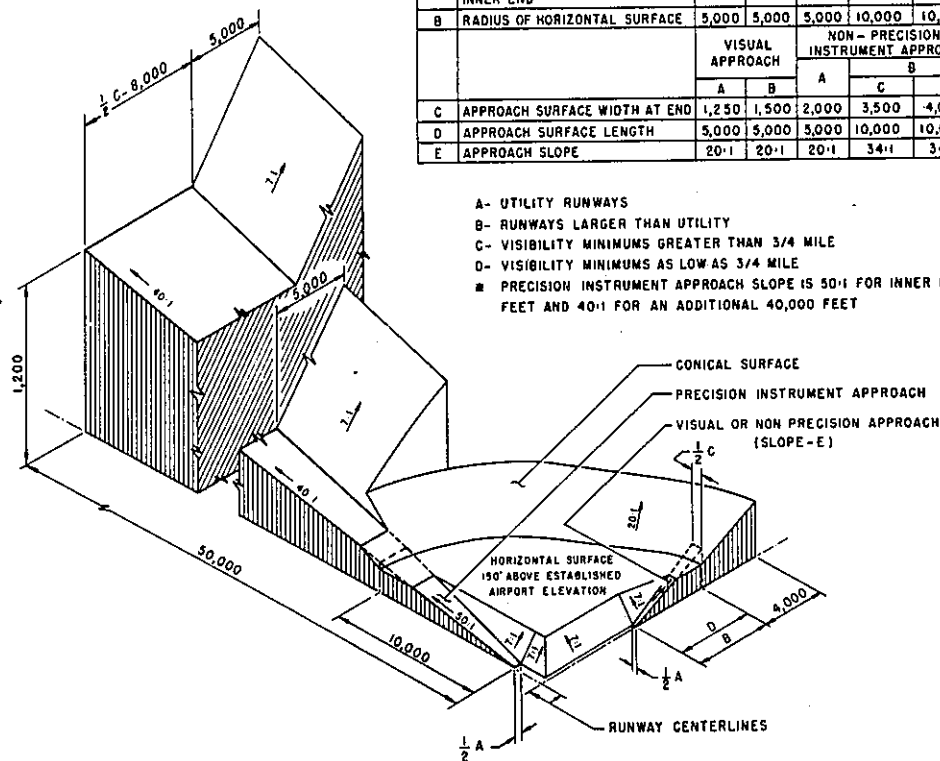
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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	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
- 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

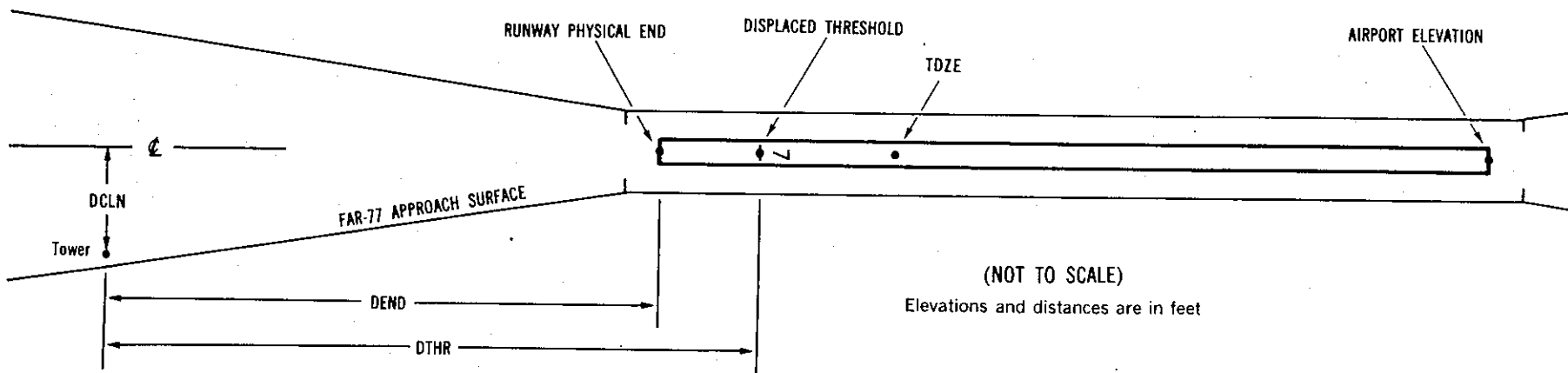
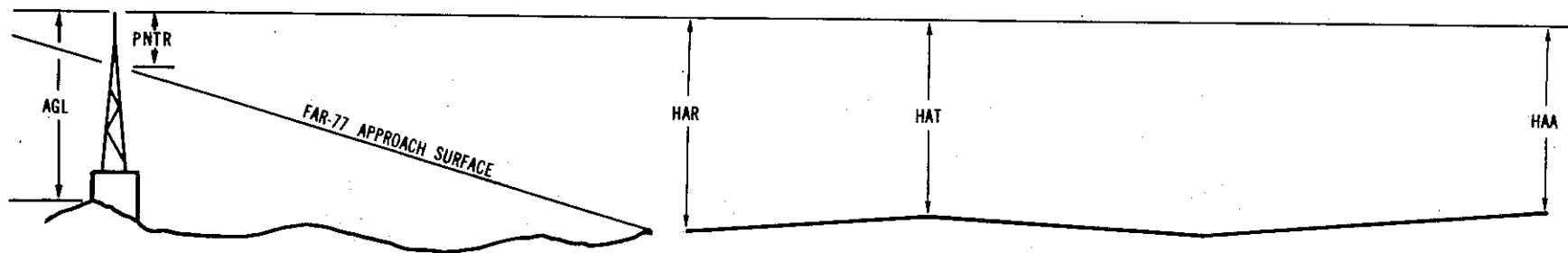
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x¹ x² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXX.XXX⁴ XXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXX.XXX⁷

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



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).

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AIRPORT ELEVATION 539

14 PIR 493/ 391018.243N 0771019.864W 3072319 494/524 391017.165N 0771018.052W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	390951.87	0770935.53	1A	543		50	19	4	-4395	-4215	1L	4
TREE	390951.71	0770939.40	1A	600		107	76	61	-4162	-3982	198R	62
TREE	390955.85	0770935.45	1A	559		66	35	20	-4155	-3975	325L	21
TREE	390958.09	0770936.35	1A	574		81	50	35	-3961	-3781	461L	39
OL ON BUILDING	390959.00	0770937.49	1A	557		64	33	18	-3834	-3654	480L	23
TREE	390953.19	0770944.67	1A	573		80	49	34	-3742	-3562	331R	41
OL ON LIGHTED WINDSOCK	390954.76	0770944.48	1A	553		60	29	14	-3657	-3477	195R	22
VASI BOARD	390957.18	0770942.60	1A	534		41	10	-5	-3626	-3446	89L	4
TREE	390954.50	0770946.85	1A	568		75	44	29	-3525	-3345	330R	39
TREE	390958.85	0770954.12	1A	568		75	44	29	-2803	-2623	327R	50
TREE	391001.66	0770958.56	1A	568		75	44	29	-2352	-2172	314R	56
TREE	391005.05	0771004.41	1A	557		64	33	18	-1777	-1598	322R	53
TREE	391007.80	0771006.74	1A	554		61	30	15	-1463	-1283	212R	54
TREE	391009.86	0771009.85	1A	546		53	22	7	-1142	-963	195R	50
OL ON LIGHTED WINDSOCK	391015.30	0771007.44	1A	514		21	-10	-25	-958	-779	358L	19
TREE	391014.47	0771020.11	1A	579		86	55	40	-216	-37	315R	85
TREE	391015.91	0771022.96	1A	556		63	32	17	51	230	336R	63
TREE	391017.31	0771023.39	1A	532		39	8	-7	163	343	243R	39
TREE	391027.14	0771026.88	1A	547		54	23	8	985	1165	379L	38
TREE	391026.86	0771030.09	1A	527		34	3	-12	1169	1349	204L	15
TREE	391045.46	0771046.71	1A	582		89	58	43	3352	3532	904L	26
TRANSMISSION TOWER	391103.20	0771118.10	1A	610		117	86	71	6406	6585	829L	-7
TRANSMISSION TOWER	391059.79	0771133.47	1A	583		90	59	44	7158	7338	179R	-49

OC5212

AIRPORT ELEVATION 539

32 SUPLC 539/539 390953.060N 0770937.541W 1272346

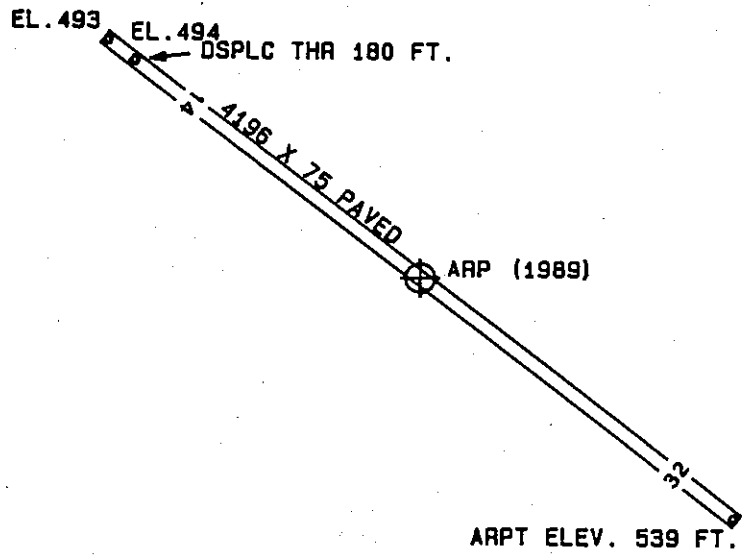
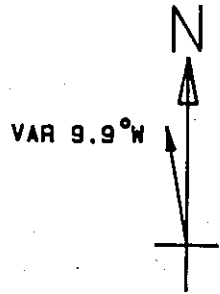
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	391017.31	0771023.39	1A	532		-7	-7	-7	-4359		243L	39
TREE	391015.91	0771022.96	1A	556		17	17	17	-4246		336L	63
TREE	391014.47	0771020.11	1A	579		40	40	40	-3979		315L	85
OL ON LIGHTED WINDSOCK	391015.30	0771007.44	1A	514		-25	-25	-25	-3237		358R	19
TREE	391009.86	0771009.85	1A	546		7	7	7	-3053		195L	50
TREE	391007.80	0771006.74	1A	554		15	15	15	-2733		212L	54
TREE	391005.05	0771004.41	1A	557		18	18	18	-2418		322L	53
TREE	391001.66	0770958.56	1A	568		29	29	29	-1844		314L	56
TREE	390958.85	0770954.12	1A	568		29	29	29	-1393		327L	50
TREE	390954.50	0770946.85	1A	568		29	29	29	-671		330L	39
VASI BOARD	390957.18	0770942.60	1A	534		-5	-5	-5	-570		89R	4
OL ON LIGHTED WINDSOCK	390954.76	0770944.48	1A	553		14	14	14	-539		195L	22
TREE	390953.19	0770944.67	1A	573		34	34	34	-454		331L	41
OL ON BUILDING	390959.00	0770937.49	1A	557		18	18	18	-362		480R	23
TREE	390958.09	0770936.35	1A	574		35	35	35	-235		461R	39
TREE	390955.85	0770935.45	1A	559		20	20	20	-41		325R	21
TREE	390951.71	0770939.40	1A	600		61	61	61	-34		198L	62
GROUND	390951.87	0770935.53	1A	543		4	4	4	199		1R	4
TREE	390949.89	0770937.08	1A	601		62	62	62	224		233L	61
BUSH	390952.16	0770932.36	1A	561		22	22	22	380		176R	17
OL ON BUILDING	390948.61	0770935.56	1A	583		44	44	44	398		263L	38
BUILDING (Under Constrn)	390952.03	0770928.69	1A	572		33	33	33	617		341R	21
TREE	390947.28	0770932.82	1A	574		35	35	35	651		239L	22
BUSH	390949.78	0770929.14	1A	570		31	31	31	727		138R	16
POLE	390950.79	0770927.92	1A	592		53	53	53	741		278R	37
POLE	390945.57	0770930.98	1A	589		50	50	50	871		288L	30
TREE	390944.96	0770926.54	1A	589		50	50	50	1186		125L	21
TREE	390944.44	0770924.74	1A	595		56	56	56	1331		80L	23
TREE	390946.79	0770912.15	1A	641		102	102	102	1974		710R	50
TREE	390945.87	0770912.31	1A	634		95	95	95	2021		629R	41

OC5212

AIRPORT ELEVATION 539

ARP 391005.652N 0770958.701W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	391009.93	0770954.12	1A	563		24	49 42	563
TREE	391014.80	0771001.77	1A	540		1	355 17	957
ANTENNA	391015.85	0770959.00	1A	590		51	8 36	1032
ANTENNA AT AIRPORT BEACON	391004.11	0770941.37	1A	554		15	106 25	1374
WINDSOCK ON BUILDING	391003.65	0770940.62	1A	551		12	107 59	1439
TREE	391020.60	0771010.81	1A	561		22	337 39	1788
POLE	390957.65	0770933.17	1A	575		36	121 50	2168
TREE	391009.84	0771027.89	1A	586		47	290 20	2337
TREE	390937.64	0770933.08	1A	653		114	154 27	3479
TREE	390938.45	0770930.63	1A	649		110	151 8	3530
TRANSMISSION TOWER	391107.78	0770908.77	1B	716		177	41 56	7415
TRANSMISSION TOWER	391105.50	0771107.83	1A	636		97	327 57	8143
TREE	391126.42	0770905.72	1B	708		169	36 56	9175



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
14	524
32	539

MONTGOMERY COUNTY AIRPARK
 GAITHERSBURG, MARYLAND
 (NOT TO SCALE)