

OBSTRUCTION DATA SHEET

ODS 943
CAPE GIRARDEAU MUNICIPAL AIRPORT
CAPE GIRARDEAU, MISSOURI

DIGITIZED FROM

OC 943
SURVEYED JULY 1993
9TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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 No. 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 the OC depict a representation of objects that existed at the time of the OC field survey.

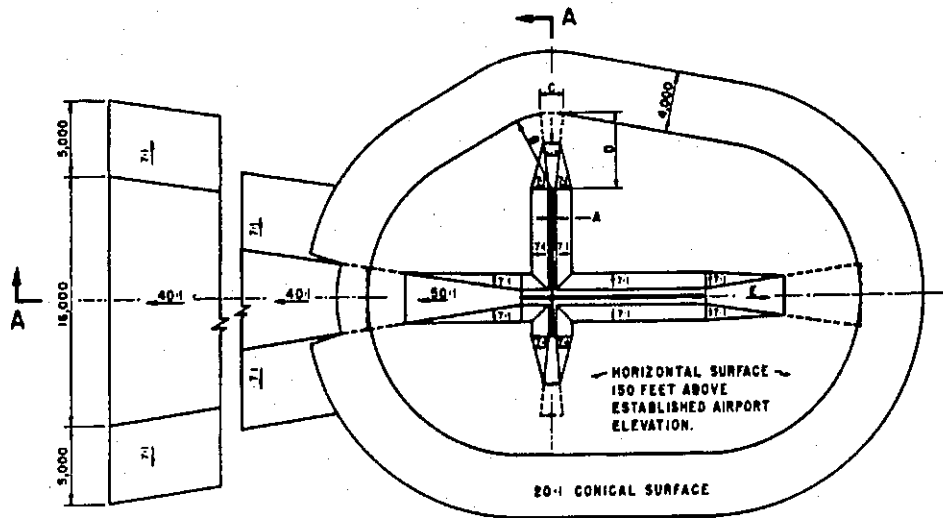
ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
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.

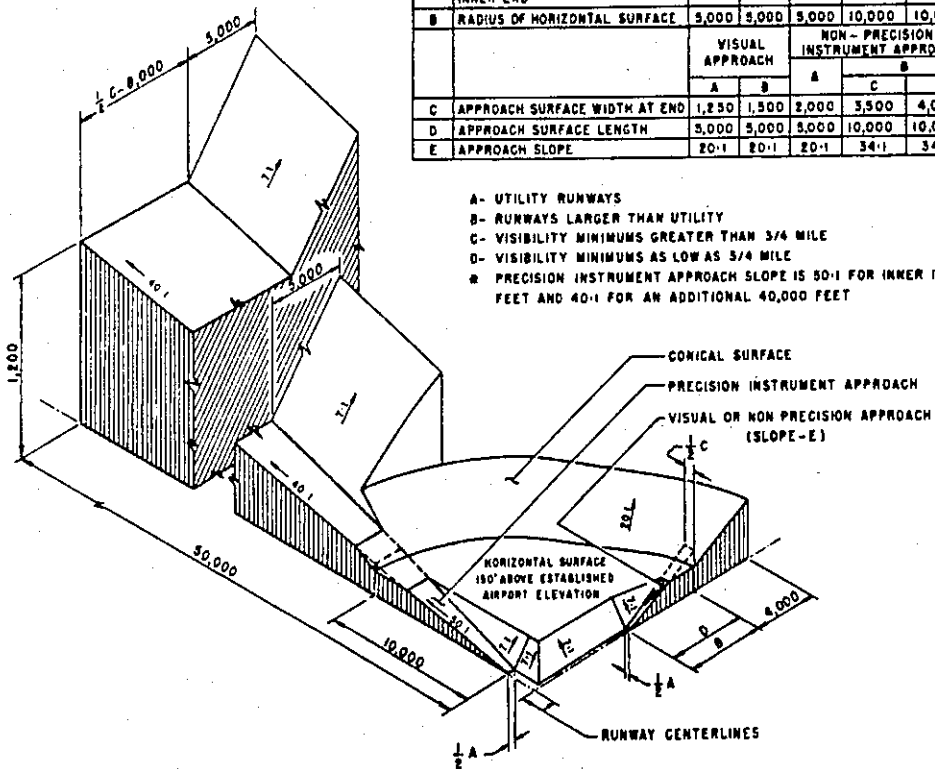
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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.



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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
D	APPROACH SURFACE LENGTH	1,250	1,500	2,000	3,500	4,000	15,000
E	APPROACH SURFACE 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

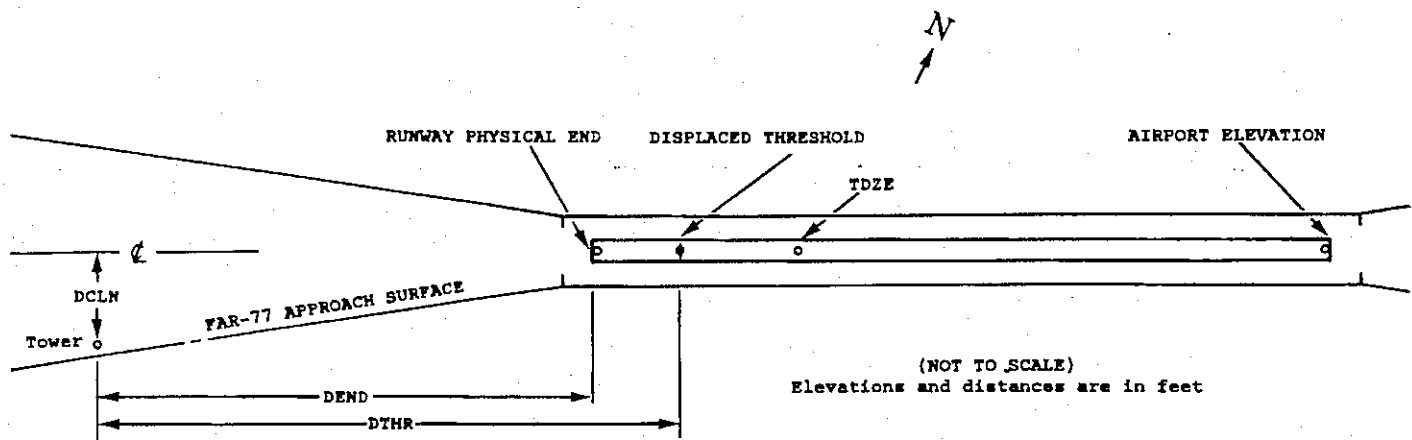
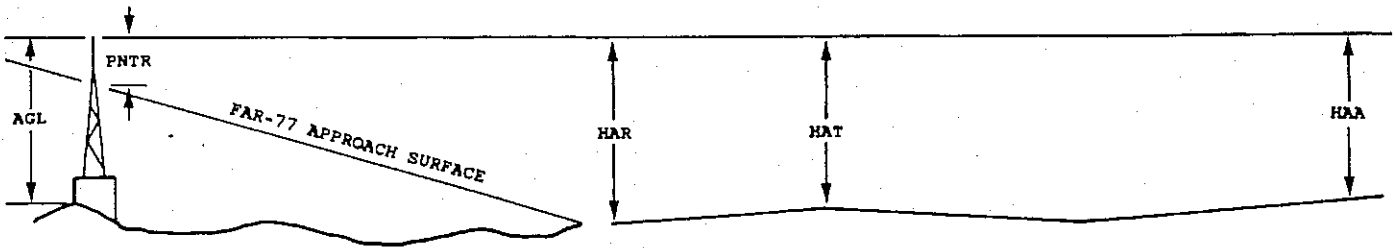
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

1 X	2 X	3 XXXX/XXXX	4 XXXXXX.XXX	4 XXXXXX.XXX	5 XXXXXX	6 XXXX/XXXX	7 XXXXXX.XXX	7 XXXXXX.XXX	8 A	9 ELEV	10 AGL	11 HAR	11 HAT	11 HAA	12 DEND	12 DTHR	12 DCLN	13 PNTR
XXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX XXXX XXXX	XXX XXX	XXX XXX	XXX XXX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX XXXX XXXX	XXX XXX	XXX XXX	XXX XXX	XXXX	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 areas 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 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displaced threshold
- 8 Accuracy codes: Horizontal(Ft.) Vertical(Ft.)
 1 = 20 A = 2
 2 = 40 B = 5
 C = 20
- 9 Elevation above mean sea level (MSL) 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). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
 HAR - Height above approach end of reference runway
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
 DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displaced 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 that object is in primary 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 342

10 PIR 338/ 338 371338.554 -893454.264 1054755.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	371321.73	-893349.54	1A	359		21	21	17	-5501		212R	19
ROD ON OL GS	371331.98	-893443.36	1A	372		34	34	30	-1030		400R	35
ANT ON BLDG	371344.81	-893459.32	1A	347		9	9	5	566		498L	2
TREE	371344.66	-893550.24	1A	403		65	65	61	4524		638R	-21

28 D 341/ 341 371321.052 -893336.945 2854842.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	371331.98	-893443.36	1A	372		31	31	30	-5469		400L	35
OL ON WSK	371321.73	-893349.54	1A	359		18	18	17	-999		212L	19
OL ON LOC	371318.36	-893325.05	1A	348		7	7	6	1000		OR	-17
ANT ON BLDG	371320.91	-893323.20	1A	357		16	16	15	1073		289R	-10
POLE	371322.69	-893315.08	1A	380		39	39	38	1656		642R	-4
TREE	371306.21	-893306.54	1A	422		81	81	80	2775		774L	5
TREE	371305.80	-893239.39	1A	476		135	135	134	4900		216L	-4
TREE	371316.13	-893226.40	1A	501		160	160	159	5626		1076R	0

2 C 342/ 342 371314.899 -893422.176 211147.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BLDG	371302.47	-893433.16	1A	371		29	29	29	1493		374L	-9
TREE	371230.69	-893434.45	1A	508		166	166	166	4528		691R	39
TREE	371226.24	-893450.95	1A	509		167	167	167	5430		391L	13
TREE	371227.37	-893455.33	1A	515		173	173	173	5452		762L	19
TREE	371220.62	-893440.73	1A	531		189	189	189	5661		586R	28
TRMSN TWR	371143.45	-893454.98	1A	512		170	170	170	9583		870R	-106
TREE	371146.29	-893505.55	1A	531		189	189	189	9624		32L	-88

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AIRPORT ELEVATION 342

20 C 337/ 339 371351.730 -893404.313 2011158.

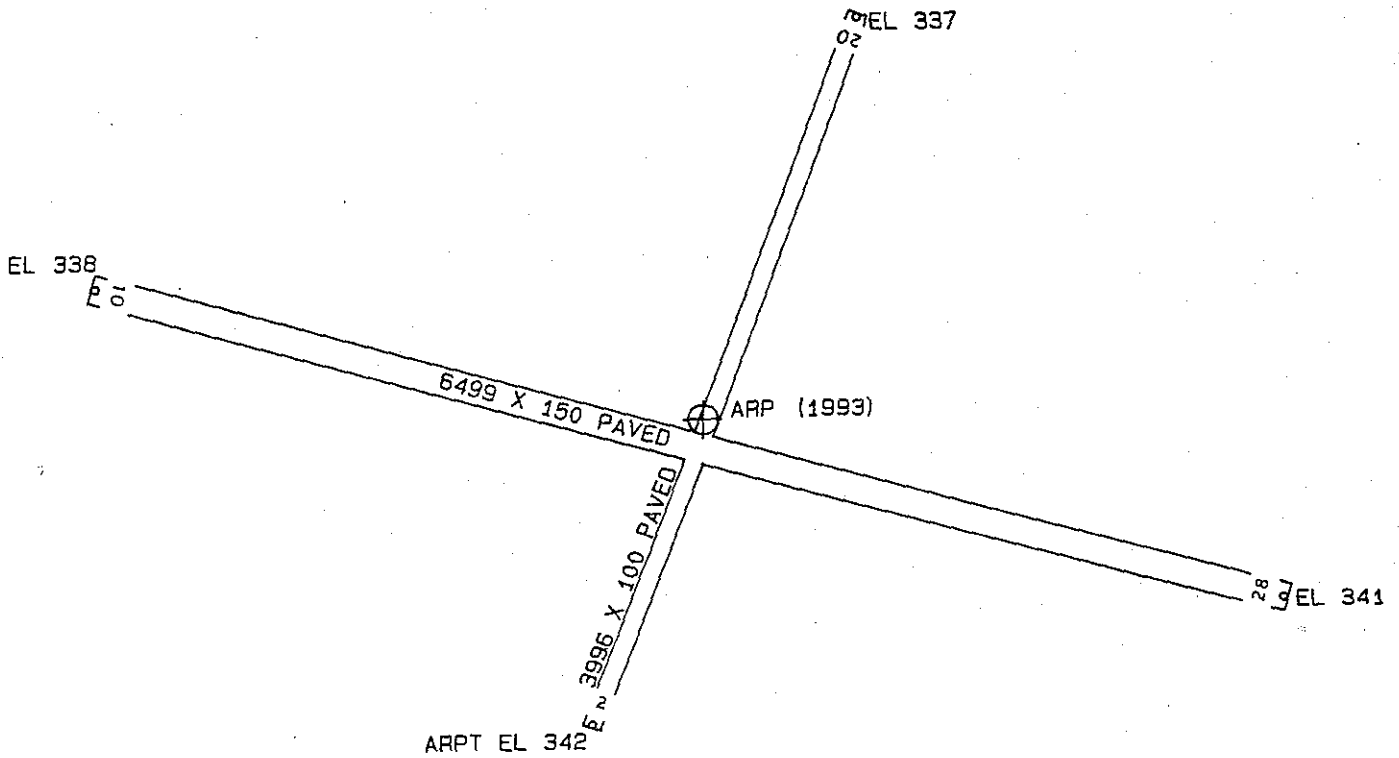
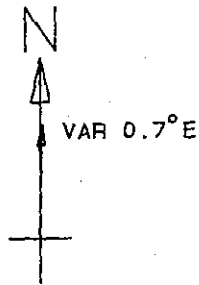
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD(N)	371357.68	-893357.09	1A	353		16	14	11	772		327L	0
TREE	371359.37	-893358.20	1A	370		33	31	28	899		182L	13
SIGN	371407.73	-893357.35	1A	363		26	24	21	1712		60R	-18
SIGN	371416.32	-893358.50	1A	395		58	56	53	2488		461R	-9
SIGN	371424.56	-893345.78	1A	411		74	72	69	3638		196L	-27

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AIRPORT ELEVATION 342

ARP 371331.141 -893414.706

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON VOR/DME	371339.15	-893420.65	1A	364		22	32836	942
MONITOR POLE	371339.54	-893420.78	1A	376		34	32915	981
OL ON AMOM	371341.82	-893417.10	1A	369		27	34908	1098
ANT ON OL ATCT	371338.09	-893353.61	1A	404		62	6654	1845
OL ON WSK	371341.82	-893354.96	1A	361		19	5513	1928
TREE	371311.91	-893418.62	1A	360		18	18832	1971
TREE	371350.45	-893409.65	1A	350		8	1107	1995
ANT ON OL APBN	371336.70	-893347.62	1A	393		51	7453	2262
TREE	371307.80	-893419.47	1A	372		30	18834	2392
TREE	371302.49	-893434.26	1A	419		77	20755	3302
TREE	371333.03	-893459.46	1A	367		25	27219	3625
TREE	371347.38	-893459.47	1A	360		18	29342	3976
POLE	371324.93	-893317.67	1A	381		39	9703	4656
TREE	371244.22	-893347.88	1A	523		181	15443	5218
TREE	371239.28	-893408.77	1A	557		215	17404	5267
ELEVATOR	371240.34	-893358.66	1A	514		172	16507	5300
TREE	371304.67	-893309.65	1A	425		83	11615	5904
OL ON TANK	371426.54	-893511.21	1A	461		119	32006	7230
TREE	371229.78	-893503.42	1A	512		170	21143	7352
TREE	371325.50	-893228.29	1A	554		212	9305	8626
TREE	371225.14	-893525.16	1A	527		185	21947	8778
TREE	371332.29	-893214.10	1A	545		203	8836	9755
TREE	371151.27	-893311.38	1A	510		168	15224	11327
OL ON MCWV TWR	371349.72	-893155.28	1A	655		313	7949	11432
TRMSN TWR	371138.47	-893442.70	1A	525		183	19032	11619
TRMSN TWR	371134.74	-893433.50	1A	526		184	18639	11871
TREE	371328.62	-893146.86	1A	518		176	9030	11961
TREE	371134.90	-893501.64	1A	548		206	19712	12355
OL TANK	371143.26	-893252.57	1A	538		196	14757	12776
TREE	371229.17	-893150.91	1A	502		160	11736	13214
TREE	371405.65	-893131.30	1A	559		217	7429	13669
SPIRE	371125.23	-893259.75	1A	563		221	15349	14105
ANT	371550.45	-893333.75	1A	582		240	1231	14474
OL ON TANK	371333.41	-893110.99	1A	553		211	8823	14861
ROD ON OL TWR	371057.03	-893443.60	1A	671		329	18749	15761



TOUCHDOWN ZONE RUNWAY ELEVATION	
10	338
28	341
20	342
20	339

CAPE GIRARDEAU MUNICIPAL AIRPORT
 CAPE GIRARDEAU, MISSOURI
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)