

OBSTRUCTION DATA SHEET

ODS 650
WHEELING - OHIO COUNTY AIRPORT
WHEELING, WEST VIRGINIA

DIGITIZED FROM

OC 650
SURVEYED SEPTEMBER 1988
9TH EDITION



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THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

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:

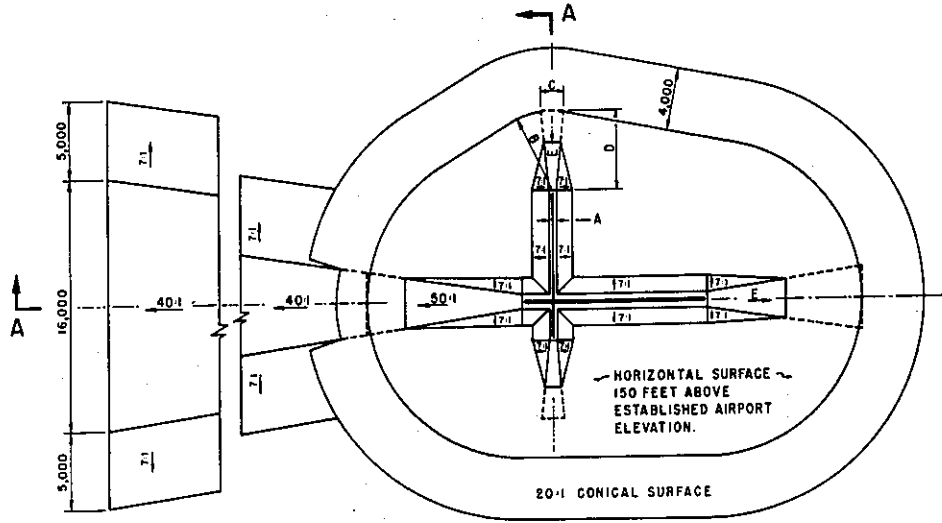
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

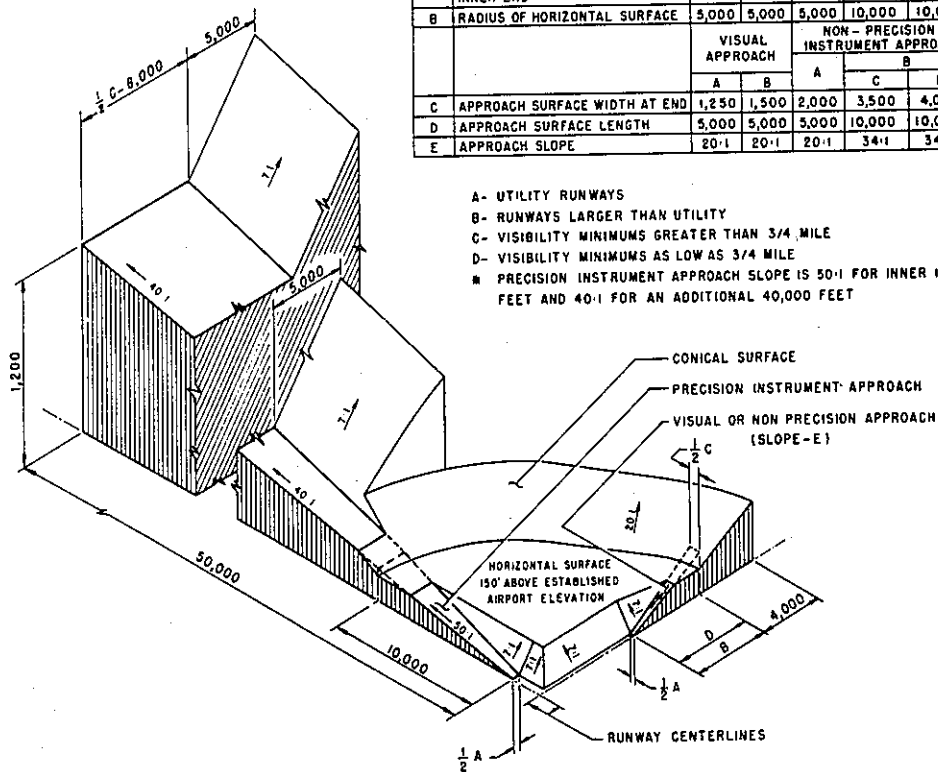
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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

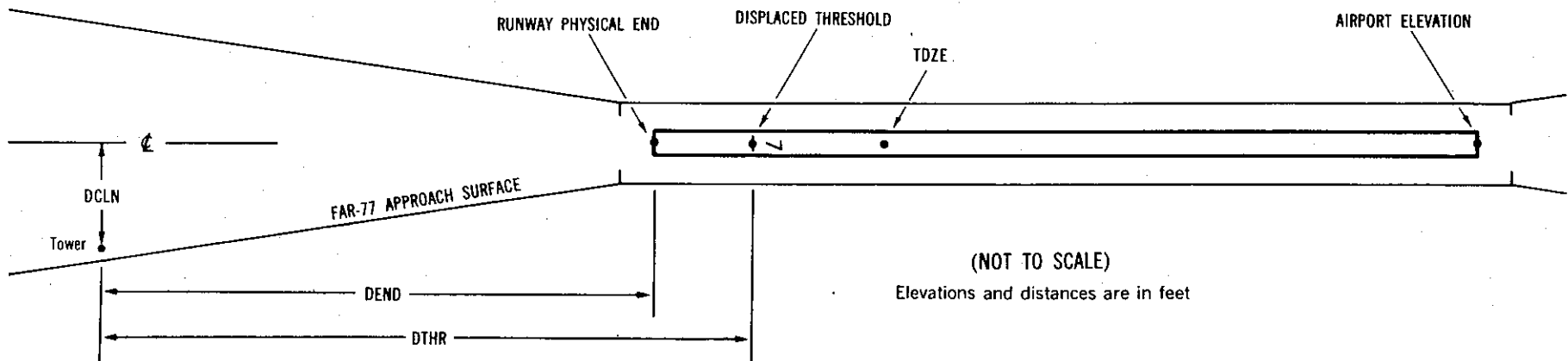
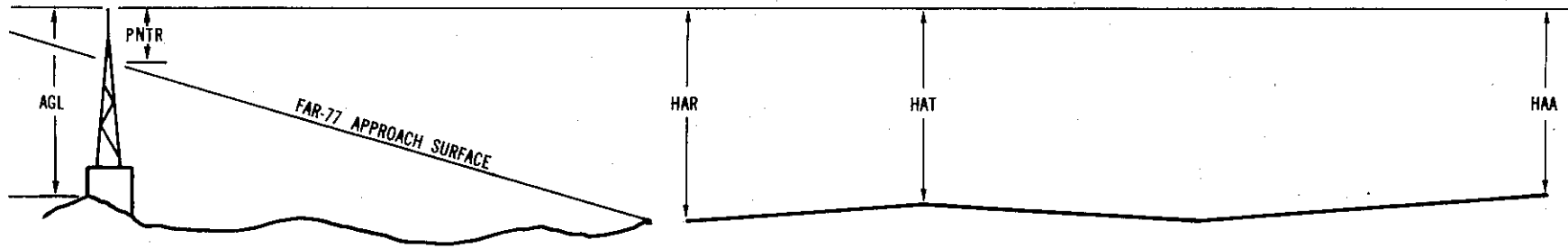
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x ¹	x ² XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXX.XXX ⁴	XXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXX.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).

OC0650

AIRPORT ELEVATION 1195

3 PIR 1171/1172 401006.593N 08039 5.450W 2060002

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	401050.48	0803832.99	1A	1213		42	41	18	-5096		318R	18
ANTENNA ON OL BUILDING	401052.89	0803839.42	1A	1208		37	36	13	-5096		238L	13
GROUND	401046.73	0803833.65	1A	1201		30	29	6	-4733		437R	8
ROAD (N)	401046.04	0803833.17	1A	1224		53	52	29	-4686		502R	31
GROUND	401044.84	0803836.06	1A	1203		32	31	8	-4478		354R	12
WINDSOCK	401044.58	0803846.92	1A	1199		28	27	4	-4085		392L	13
OL ANEMOMETER	401043.47	0803847.63	1A	1199		28	27	4	-3960		392L	14
TREE	401039.09	0803840.61	1A	1203		32	31	8	-3801		291R	20
TREE	401037.14	0803842.22	1A	1201		30	29	6	-3569		266R	21
ROAD (N)	401036.09	0803842.41	1A	1193		22	21	-2	-3466		299R	14
TREE	401037.33	0803851.23	1A	1197		26	25	2	-3280		372L	21
TREE	401030.14	0803846.75	1A	1206		35	34	11	-2778		260R	36
TREE	401027.68	0803848.27	1A	1209		38	37	14	-2502		264R	42
ROD ON OL TRANSMISSOMTR	401017.42	0803855.33	1A	1179		8	7	-16	-1329		226R	19
OL ON GLIDE SLOPE	401016.82	0803856.06	1A	1188		17	16	-7	-1250		201R	28
TREE	401019.67	0803904.42	1A	1215		44	43	20	-1225		508L	55
ROD ON OL TRANSMISSOMTR	401012.95	0803857.74	1A	1178		7	6	-17	-841		256R	14
BUSH	401008.80	0803900.20	1A	1180		9	8	-15	-379		268R	12
TREE	401010.32	0803907.12	1A	1200		29	28	5	-282		282L	31
TREE	401007.68	0803909.56	1A	1203		32	31	8	41		335L	32
TREE	401006.16	0803909.82	1A	1196		25	24	1	188		286L	25
TREE	401003.43	0803904.76	1A	1192		21	20	-3	264		189R	20
TREE	401004.81	0803908.69	1A	1190		19	18	-5	273		147L	18
TREE	401005.45	0803910.75	1A	1193		22	21	-2	284		319L	20
TREE	400849.81	0803936.04	1A	1317		146	145	122	8024		1271R	-10

OC0650

AIRPORT ELEVATION 1195

21 C 1195/1195 401050.998N 0803837.213W 0260020

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	401006.16	0803909.82	1A	1196		1	1	1	-5188		286R	25
TREE	401007.68	0803909.56	1A	1203		8	8	8	-5040		335R	32
TREE	401010.32	0803907.12	1A	1200		5	5	5	-4717		282R	31
BUSH	401008.80	0803900.20	1A	1180		-15	-15	-15	-4620		268L	12
ROD ON OL TRANSMISSOMTR	401012.95	0803857.74	1A	1178		-17	-17	-17	-4159		256L	14
TREE	401019.67	0803904.42	1A	1215		20	20	20	-3775		508R	55
OL ON GLIDE SLOPE	401016.82	0803856.06	1A	1188		-7	-7	-7	-3750		201L	28
ROD ON OL TRANSMISSOMTR	401017.42	0803855.33	1A	1179		-16	-16	-16	-3670		226L	19
TREE	401027.68	0803848.27	1A	1209		14	14	14	-2497		264L	42
TREE	401030.14	0803846.75	1A	1206		11	11	11	-2221		260L	36
TREE	401037.33	0803851.23	1A	1197		2	2	2	-1720		372R	21
ROAD (N)	401036.09	0803842.41	1A	1193		-2	-2	-2	-1533		299L	14
TREE	401037.14	0803842.22	1A	1201		6	6	6	-1430		266L	21
TREE	401039.09	0803840.61	1A	1203		8	8	8	-1199		291L	20
OL ANEMOMETER	401043.47	0803847.63	1A	1199		4	4	4	-1039		392R	14
WINDSOCK	401044.58	0803846.92	1A	1199		4	4	4	-914		392R	13
GROUND	401044.84	0803836.06	1A	1203		8	8	8	-521		354L	12
ROAD (N)	401046.04	0803833.17	1A	1224		29	29	29	-313		502L	31
GROUND	401046.73	0803833.65	1A	1201		6	6	6	-267		437L	8
TREE	401050.48	0803832.99	1A	1213		18	18	18	97		318L	18
ANTENNA ON OL BUILDING	401052.89	0803839.42	1A	1208		13	13	13	97		238R	13
TREE	401052.91	0803834.64	1A	1204		9	9	9	262		95L	7
TREE	401055.26	0803838.25	1A	1227		32	32	32	353		261R	28
OL ON TRANSMISSION TOWER	401135.81	0803752.51	1A	1341		146	146	146	5597		1129L	-13

OC0650

AIRPORT ELEVATION 1195

16 SUPLC 1173/1179 401050.330N 0803856.852W 3310146

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	401011.51	0803825.28	1A	1203		30	24	8	-4624		242L	11
ROAD (N)	401012.70	0803825.77	1A	1205		32	26	10	-4500		267L	13
TREE	401012.81	0803833.55	1A	1202		29	23	7	-4198		257R	13
GROUND	401021.88	0803832.73	1A	1183		10	4	-12	-3426		244L	1
TREE	401037.33	0803851.23	1A	1197		24	18	2	-1362		255R	20
TREE	401045.52	0803857.35	1A	1196		23	17	1	-407		270R	21
ROAD (N)	401053.83	0803855.45	1A	1182		9	3	-13	257		267L	7
ROAD (N)	401053.75	0803859.20	1A	1181		8	2	-14	391		8L	2
TREE	401056.31	0803856.49	1A	1212		39	33	17	516		317L	30
TREE	401054.24	0803903.31	1A	1214		41	35	19	589		247R	30
TREE	401057.02	0803859.27	1A	1195		22	16	0	683		164L	8

34 SUPLC 1192/1192 401011.456N 0803828.798W 1510204

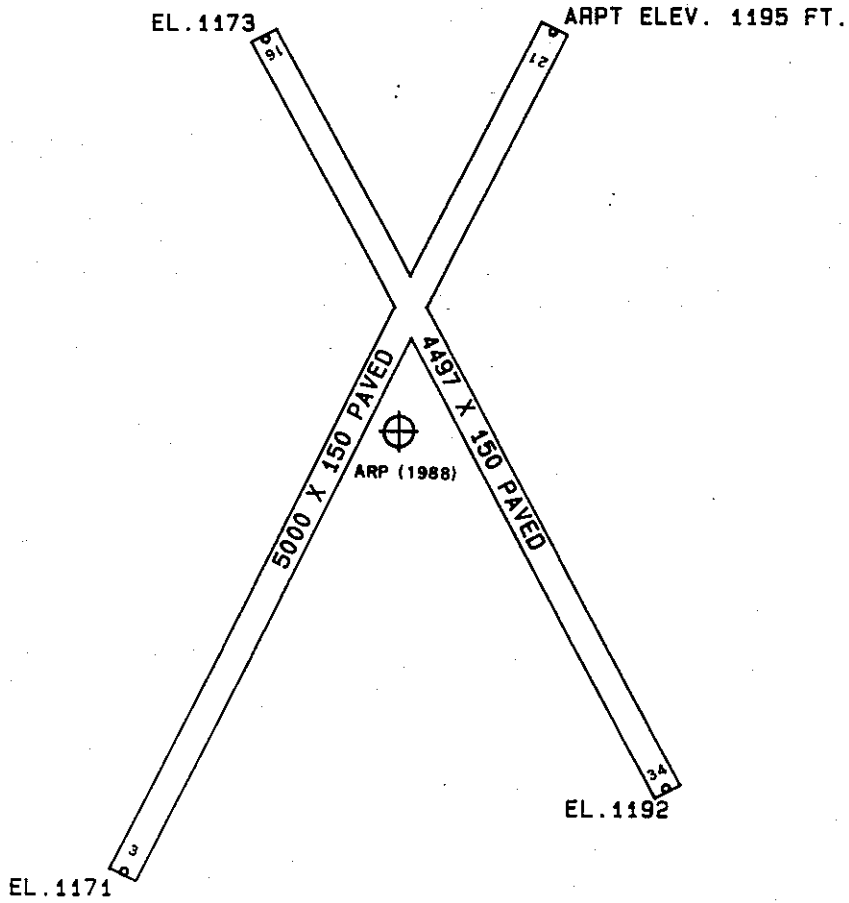
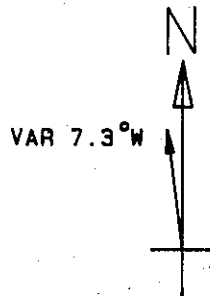
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	401045.52	0803857.35	1A	1196		4	4	1	-4089		270L	21
TREE	401037.33	0803851.23	1A	1197		5	5	2	-3134		255L	20
GROUND	401021.88	0803832.73	1A	1183		-9	-9	-12	-1071		244R	1
TREE	401012.81	0803833.55	1A	1202		10	10	7	-298		257L	13
ROAD (N)	401012.70	0803825.77	1A	1205		13	13	10	4		267R	13
POLE	401011.51	0803825.28	1A	1203		11	11	8	128		242R	11
POLE	401007.91	0803830.07	1A	1205		13	13	10	267		260L	11
POST	401010.29	0803824.39	1A	1198		6	6	3	268		242R	4
BUSH	401008.93	0803827.06	1A	1203		11	11	8	289		6L	8
TREE	401010.16	0803823.84	1A	1225		33	33	30	301		274R	30
TREE	401008.31	0803823.87	1A	1215		23	23	20	464		181R	15

OC0650

AIRPORT ELEVATION 1195

ARP 401029.789N 0803847.304W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	401034.99	0803855.04	1A	1225		30	318 32	798
TREE	401040.50	0803854.38	1A	1202		7	340 26	1216
TREE	401019.58	0803838.69	1A	1224		29	154 22	1230
TREE	401031.63	0803830.71	1A	1279		84	89 3	1301
GROUND	401021.77	0803828.29	1A	1232		37	126 7	1685
TREE	401045.92	0803829.37	1A	1293		98	47 45	2145
TREE	401045.27	0803826.79	1A	1321		126	52 46	2234
TREE	401048.33	0803830.71	1A	1252		57	41 46	2276
ANTENNA ON OL BUILDING	401040.01	0803820.74	1A	1350		155	70 40	2307
ANT AND APT BCN ON OL C T	401053.20	0803847.24	1A	1267		72	7 25	2369
TREE	401046.97	0803824.65	1A	1323		128	52 38	2473
WINDSOCK ON OL HANGAR	401050.48	0803905.73	1A	1194		-1	332 58	2536
TREE	401045.65	0803821.10	1A	1344		149	59 1	2591
TREE	401049.22	0803825.02	1A	1270		75	48 38	2618
OL ANTENNA	401051.25	0803906.32	1A	1224		29	333 6	2626
TREE	401056.24	0803855.19	1A	1225		30	354 25	2746
TREE	401009.38	0803911.28	1A	1188		-7	229 20	2780
TREE	401041.38	0803920.00	1A	1282		87	302 7	2796
TREE	401049.00	0803807.01	1A	1355		160	65 27	3683
ANTENNA ON OL POLE	401119.22	0803733.71	1B	1413		218	56 5	7593
OL ON TRANSMISSION TOWER	401123.64	0803725.23	1B	1359		164	56 45	8383
TREE	401105.24	0803700.22	1B	1368		173	73 57	9053
TREE	401108.58	0803639.26	1B	1391		196	75 44	10685
OL ON TRANSMISSION TOWER	401100.84	0803633.58	1B	1437		242	80 27	10845
TREE	400844.01	0803807.86	1B	1344		149	171 20	11134
ANTENNA	400910.03	0804044.81	1B	1340		145	235 49	12181
ANTENNA ON STANDPIPE	401229.92	0803803.66	2C	1346		151	22 52	12619
OL ON MICROWAVE TOWER	401032.79	0803548.45	2A	1595	234	400	96 2	13887



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
3	1172
21	1195
16	1179
34	1192

WHEELING - OHIO COUNTY AIRPORT
 WHEELING, WEST VIRGINIA
 (NOT TO SCALE)