

# OBSTRUCTION DATA SHEET

**ODS 5085  
RHINELANDER - ONEIDA COUNTY AIRPORT  
RHINELANDER, WISCONSIN**

**DIGITIZED FROM**

**OC 5085  
SURVEYED JULY 1990  
6TH 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:

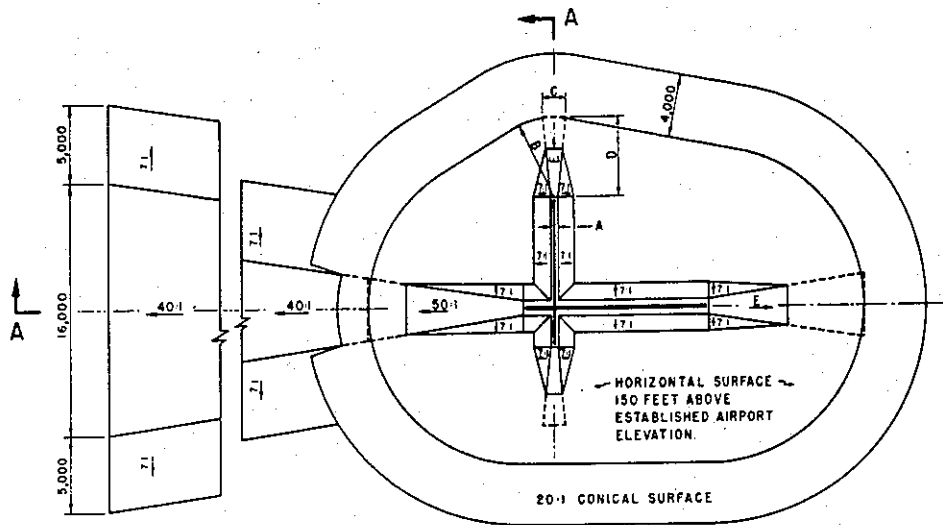
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

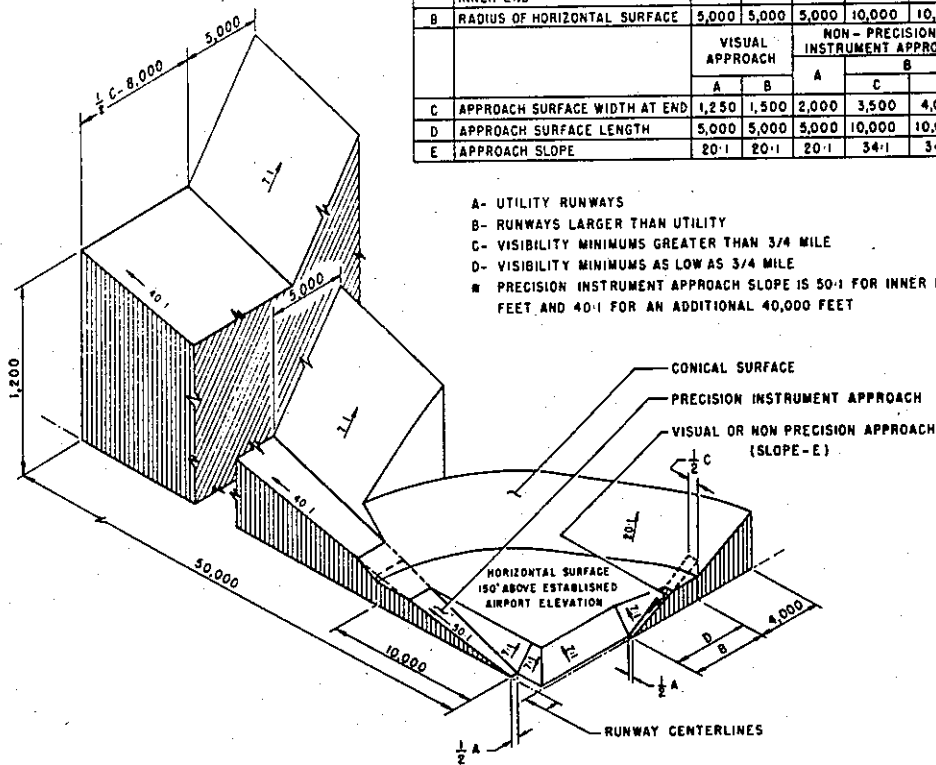
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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		
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	B		
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

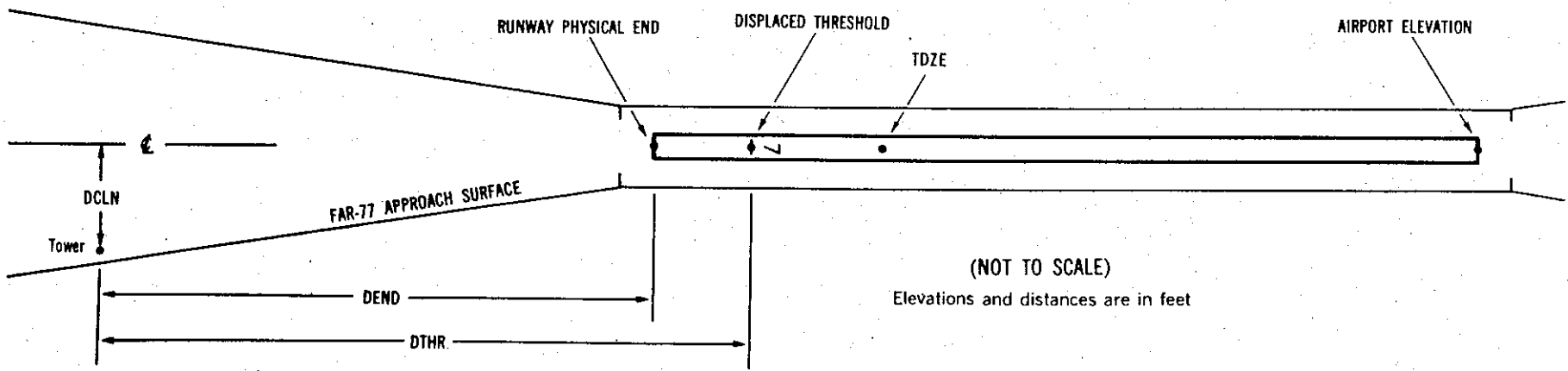
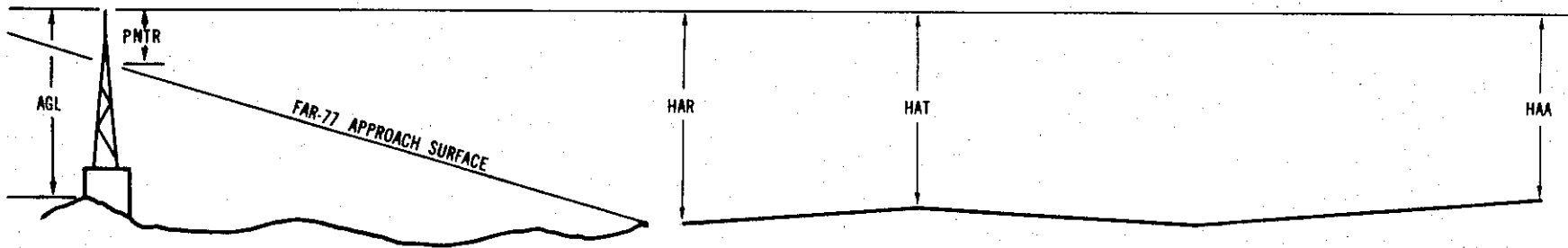
AIRPORT ELEVATION XXXX

x<sup>1</sup> x<sup>2</sup> XXXX/XXXX<sup>3</sup> XXXXXX.XXX<sup>4</sup> XXXXXXXX.XXX<sup>4</sup> XXXXXXXX<sup>5</sup> XXXX/XXXX<sup>6</sup> XXXXXX.XXX<sup>7</sup> XXXXXXXX.XXX<sup>7</sup>

OBJECT LAT LONG A<sup>8</sup> ELEV<sup>9</sup> AGL<sup>10</sup> HAR<sup>11</sup> HAT<sup>11</sup> HAA<sup>11</sup> DEND<sup>12</sup> DTHR<sup>12</sup> DCLN<sup>12</sup> PNTR<sup>13</sup>

XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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## 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  $\pm 10$  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 1623

5 C 1607/1607 453731.881N 0892811.939W 2324610

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	453806.60	0892708.34	1A	1615		8	8	-8	-5726		66L	7
BUSH	453806.98	0892709.77	1A	1616		9	9	-7	-5668		158L	8
BUSH	453803.82	0892707.05	1A	1612		5	5	-11	-5629		213R	4
BUSH	453806.98	0892711.28	1A	1614		7	7	-9	-5583		223L	6
BUSH	453802.91	0892707.48	1A	1616		9	9	-7	-5549		269R	8
POST	453758.90	0892725.39	1A	1605		-2	-2	-18	-4290		178L	6
TREE	453723.22	0892821.67	1A	1631		24	24	8	1081		280R	-2
TREE	453714.93	0892834.75	1A	1657		50	50	34	2330		386R	-13
TREE	453719.50	0892840.57	1A	1668		61	61	45	2379		233L	-3

23 C 1608/1608 453805.324N 08927 9.197W 0524655

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POST	453758.90	0892725.39	1A	1605		-3	-3	-18	-1310		178R	6
BUSH	453802.91	0892707.48	1A	1616		8	8	-7	-51		269L	8
BUSH	453806.98	0892711.28	1A	1614		6	6	-9	-16		223R	6
BUSH	453803.82	0892707.05	1A	1612		4	4	-11	29		213L	4
BUSH	453806.98	0892709.77	1A	1616		8	8	-7	69		158R	8
BUSH	453806.60	0892708.34	1A	1615		7	7	-8	127		66R	7
ROAD (N)	453822.47	0892649.69	1A	1640		32	32	17	2154		544R	-25
TREE	453822.07	0892646.88	1A	1682		74	74	59	2289		392R	13
TREE	453824.93	0892645.16	1A	1698		90	90	75	2561		548R	21
TREE	453822.48	0892641.83	1A	1689		81	81	66	2600		207R	10
TREE	453819.78	0892638.03	1A	1681		73	73	58	2650		173L	1
TREE	453823.06	0892636.99	1A	1690		82	82	67	2909		46R	2

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AIRPORT ELEVATION 1623

9 PIR 1623/1623 453749.219N 0892911.278W 2681629

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ANTENNA ON ELECTRICAL BOX	453755.15	0892741.21	1A	1605		-18	-18	-18	-6416		409L	5
FENCE	453755.44	0892752.41	1A	1607		-16	-16	-16	-5621		462L	5
TREE	453755.64	0892753.70	1A	1610		-13	-13	-13	-5530		485L	8
BUSH	453753.80	0892757.01	1A	1606		-17	-17	-17	-5289		305L	3
TREE	453753.83	0892839.07	1A	1623		0	0	0	-2302		398L	10
OL ON GLIDE SLOPE	453753.24	0892856.32	1A	1655		32	32	32	-1075		375L	36
OL WINDSOCK	453746.98	0892857.58	1A	1629		6	6	6	-966		256R	10
GROUND	453746.05	0892920.82	1A	1633		10	10	10	688		300R	1
ANTENNA ON BUILDING	453752.95	0892929.79	1A	1650		27	27	27	1304		417L	5

27 C 1599/1606 453751.229N 0892735.643W 0881737

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL WINDSOCK	453746.98	0892857.58	1A	1629		30	23	6	-5833		256L	10
OL ON GLIDE SLOPE	453753.24	0892856.32	1A	1655		56	49	32	-5725		375R	36
TREE	453753.83	0892839.07	1A	1623		24	17	0	-4497		398R	10
BUSH	453753.80	0892757.01	1A	1606		7	0	-17	-1510		305R	3
TREE	453755.64	0892753.70	1A	1610		11	4	-13	-1269		485R	8
FENCE	453755.44	0892752.41	1A	1607		8	1	-16	-1178		462R	5
ANTENNA ON ELECTRICAL BOX	453755.15	0892741.21	1A	1605		6	-1	-18	-384		409R	5
BUSH	453749.69	0892720.58	1A	1607		8	1	-16	1066		188L	-17
TREE	453753.63	0892710.46	1A	1638		39	32	15	1796		190R	-8
TREE	453754.39	0892654.33	1A	1666		67	60	43	2944		233R	-14
TREE	453757.39	0892652.14	1A	1676		77	70	53	3109		532R	-9
TREE	453757.98	0892644.10	1A	1678		79	72	55	3681		574R	-23



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AIRPORT ELEVATION 1623

15 SUPLC 1597/1599 453814.559N 0892747.551W 3272532

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	453736.75	0892708.83	1A	1620		23	21	-3	-4709		257L	15
GROUND	453742.83	0892714.51	1A	1604		7	5	-19	-3972		248L	1
BUSH	453749.69	0892720.58	1A	1607		10	8	-16	-3155		259L	7
TREE	453830.68	0892754.75	1A	1686		89	87	63	1651		448L	46
TREE	453830.87	0892755.92	1A	1680		83	81	57	1712		389L	39
OL POLE	453830.74	0892757.36	1A	1677		80	78	54	1756		295L	34
OL POLE	453827.77	0892805.22	1A	1664		67	65	41	1804		338R	20
TREE	453832.89	0892757.96	1A	1686		89	87	63	1963		376L	37
OL POLE	453831.75	0892805.02	1A	1669		72	70	46	2136		108R	15
TREE	453831.97	0892805.97	1A	1678		81	79	55	2190		154R	22
OL POLE	453842.10	0892805.45	1A	1691		94	92	68	3036		430L	11
TREE	453844.60	0892811.04	1A	1701		104	102	78	3462		232L	8

33 SUPLC 1605/1605 453737.088N 0892713.432W 1472556

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	453749.69	0892720.58	1A	1607		2	2	-16	-1349		259R	7
GROUND	453742.83	0892714.51	1A	1604		-1	-1	-19	-531		248R	1
BUSH	453736.75	0892708.83	1A	1620		15	15	-3	205		257R	15
TREE	453730.99	0892712.96	1A	1632		27	27	9	538		304L	17
TREE	453733.91	0892705.80	1A	1633		28	28	10	563		284R	17
TREE	453724.48	0892708.20	1A	1663		58	58	40	1276		374L	26
TREE	453725.49	0892704.44	1A	1646		41	41	23	1334		94L	8
TREE	453726.81	0892700.29	1A	1648		43	43	25	1380		227R	8
TREE	453724.03	0892706.28	1A	1657		52	52	34	1388		284L	17
TREE	453727.28	0892658.22	1A	1652		47	47	29	1419		376R	11

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AIRPORT ELEVATION 1623

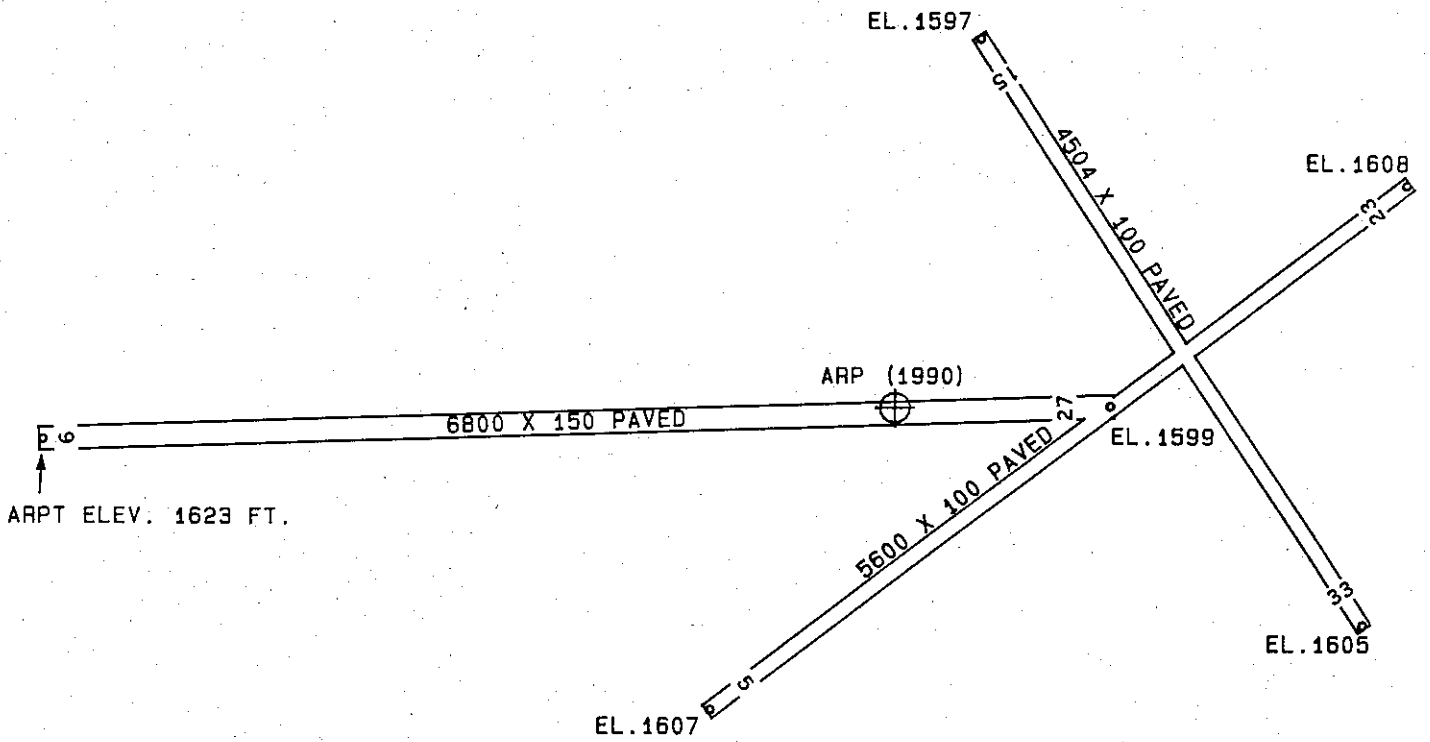
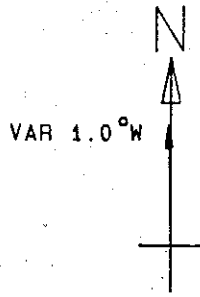
ARP 453751.181N 0892755.138W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
TREE	453757.21	0892754.32	1A	1624		1	6	27	613
TREE	453755.96	0892807.85	1A	1621		-2	299	10	1025
OL ON WINDSOCK	453757.60	0892739.36	1A	1620		-3	60	53	1296
GROUND	453737.83	0892808.54	1A	1621		-2	216	10	1654
TREE	453808.22	0892748.76	1A	1642		19	15	43	1784
GROUND	453736.93	0892810.55	1A	1622		-1	218	11	1812
ANTENNA ON OL AIRPORT BCN	453742.81	0892732.36	1A	1659		36	118	39	1828
TREE	453731.62	0892805.12	1A	1634		11	200	42	2105
TREE	453735.59	0892814.74	1A	1636		13	222	25	2106
OL ON HANGAR	453743.50	0892725.17	1A	1626		3	111	4	2267
ANTENNA	453802.70	0892727.48	1A	1644		21	60	18	2286
GROUND	453729.18	0892810.44	1A	1614		-9	207	1	2480
TREE	453733.57	0892819.51	1A	1636		13	225	10	2486
TREE	453728.21	0892809.78	1A	1651		28	205	6	2549
TREE	453726.49	0892807.40	1A	1669		46	200	13	2649
TREE	453818.02	0892758.25	1A	1655		32	356	21	2727
TREE	453816.56	0892742.01	1A	1639		16	20	57	2735
TREE	453726.21	0892814.21	1A	1641		18	209	11	2869
BUSH	453736.95	0892717.85	1A	1617		-6	119	32	3017
TRFE	453819.72	0892742.20	1A	1658		35	18	39	3033
TREE	453734.04	0892831.17	1A	1714		91	236	52	3094
BUSH	453743.11	0892712.28	1A	1630		7	106	1	3153
BUSH	453759.69	0892711.72	1A	1622		-1	75	23	3203
TREE	453807.47	0892716.34	1A	1643		20	60	6	3213
GROUND	453742.16	0892838.72	1A	1654		31	254	34	3229
TREE	453737.53	0892838.16	1A	1713		90	246	41	3356
TREE	453824.77	0892748.08	1A	1659		36	9	23	3439
SIGN POST	453801.63	0892709.09	1A	1620		-3	73	4	3439
BUSH	453737.92	0892709.52	1A	1620		-3	113	30	3509
TREE	453728.79	0892834.70	1A	1702		79	232	7	3612
TREE	453801.59	0892706.39	1A	1638		15	74	4	3621
TREE	453728.00	0892834.23	1A	1685		62	230	48	3637
TREE	453758.35	0892851.32	1A	1697		74	281	19	4058

AIRPORT ELEVATION 1623

ARP 453751.181N 0892755.138W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
GROUND	453742.34	0892850.97	1A	1650		27	258 17	4068
TREE	453723.03	0892710.27	1A	1684		61	132 48	4278
TREE	453723.22	0892709.27	1A	1672		49	131 59	4318
TREE	453815.20	0892703.66	1A	1666		43	57 22	4393
TREE	453816.76	0892704.39	1A	1691		68	55 18	4440
TREE	453741.46	0892651.59	1A	1686		63	103 18	4622
TREE	453803.95	0892652.33	1A	1685		62	74 50	4647
SIGN	453754.81	0892904.76	1A	1634		11	275 16	4961
TREE	453806.93	0892648.70	1A	1700		77	72 19	4983
POST	453755.79	0892908.48	1A	1649		26	276 8	5233
TREE	453827.21	0892644.63	1A	1705		82	54 55	6199
TREE	453738.87	0892940.91	1A	1675		52	261 35	7620
OL STACK	453821.76	0892512.03	1B	1757		134	76 1	11997
ANTENNA ON OL MAST	453708.06	0892515.19	1A	1913	322	290	112 0	12178
OL ON WATER TANK	453842.70	0892506.28	1B	1749		126	67 29	13084
ANTENNA ON OL TV TOWER	453705.04	0892447.91	2A	1955	344	332	110 20	14104
OL MAST	453645.50	0892456.19	2A	1931	328	308	118 36	14354



TOUCHDOWN ZONE  
RUNWAY ELEVATION

5	1607
23	1608
9	1623
27	1606
15	1599
33	1605

RHINELANDER - ONEIDA COUNTY AIRPORT

RHINELANDER, WISCONSIN

(NOT TO SCALE)