

# OBSTRUCTION DATA SHEET

**ODS 462  
WINSLOW MUNICIPAL AIRPORT  
WINSLOW, ARIZONA**

**DIGITIZED FROM**

**OC 462  
SURVEYED MAY 1990  
8TH 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:

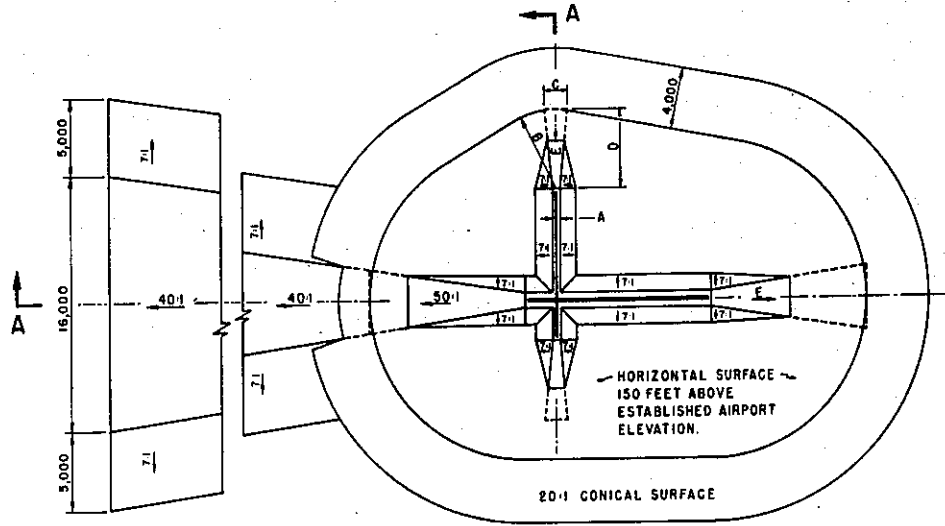
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

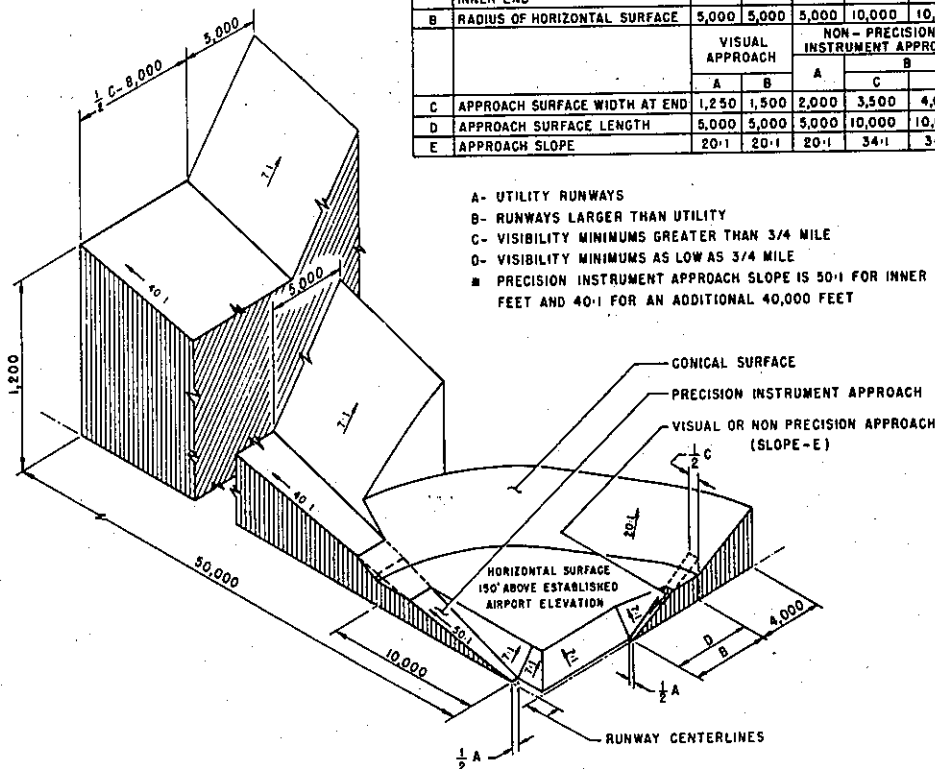
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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	B	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

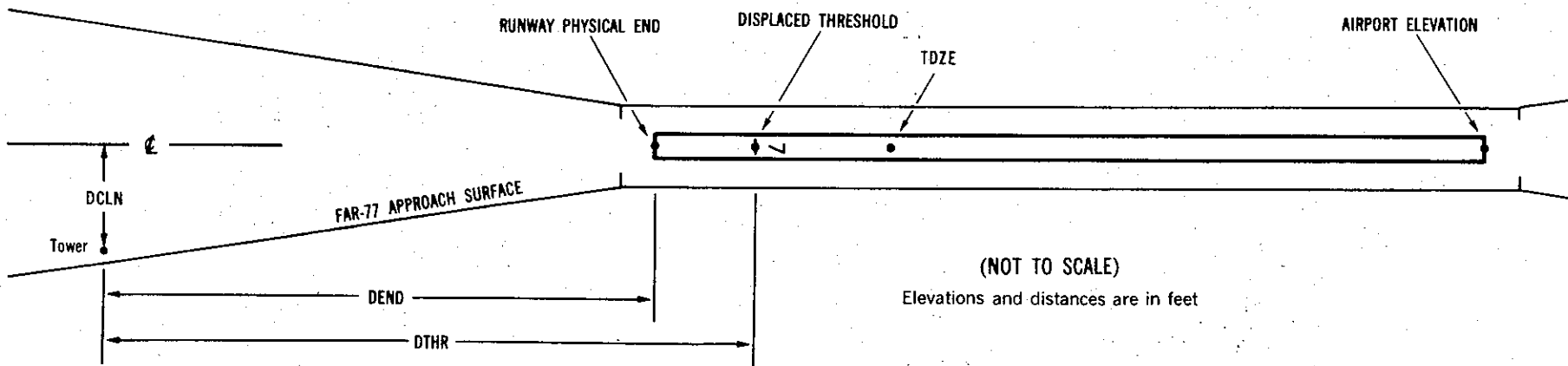
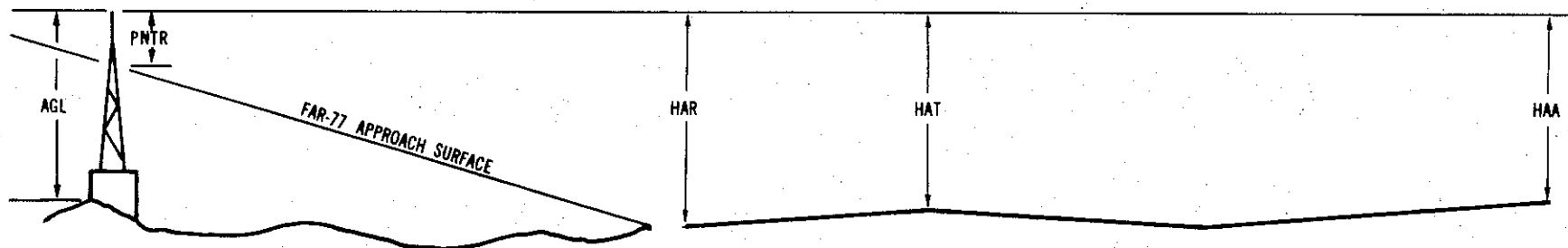
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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

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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).

OC0462

AIRPORT ELEVATION 4938

4 SUPLC 4938/4938 350051.267N 1104413.849W 2383709

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	350128.77	1104253.66	1A	4910		-28	-28	-28	-7669		235R	32
LEVEE	350130.49	1104255.87	1A	4882		-56	-56	-56	-7602		9L	4
BUSH	350131.15	1104257.55	1A	4890		-48	-48	-48	-7517		139L	12
STUMP	350120.35	1104321.99	1A	4898		-40	-40	-40	-5214		265L	2
POST	350108.95	1104342.79	1A	4915		-23	-23	-23	-3137		181L	3
ROAD (N)	350051.86	1104419.06	1A	4954		16	16	16	339		277L	12
FENCE	350051.56	1104419.02	1A	4943		5	5	5	352		249L	1
ROAD (N)	350048.82	1104419.06	1A	4955		17	17	17	499		15L	8
POLE	350046.01	1104434.45	1A	5010		72	72	72	1740		438L	27
ANTENNA ON POLE	350044.71	1104435.28	1A	5019		81	81	81	1867		362L	32
POLE	350042.59	1104434.40	1A	4994		56	56	56	1916		141L	6

22 SUPLC 4878/ 350129.870N 1104256.901W 0583753 4888/4911 350123.393N 11043 9.815W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POST	350108.95	1104342.79	1A	4915		37	4	-23	-4360	-3102	181R	3
STUMP	350120.35	1104321.99	1A	4898		20	-13	-40	-2283	-1025	265R	2
BUSH	350131.15	1104257.55	1A	4890		12	-21	-48	21	1279	139R	12
LEVEE	350130.49	1104255.87	1A	4882		4	-29	-56	106	1364	9R	4
TREE	350128.77	1104253.66	1A	4910		32	-1	-28	172	1430	235L	32
TREE	350130.22	1104252.33	1A	4906		28	-5	-32	343	1601	167L	24
OL POLE	350133.55	1104254.05	1A	4913		35	2	-25	396	1654	194R	29
TREE	350132.22	1104252.24	1A	4912		34	1	-26	454	1712	1R	27
TREE	350132.78	1104247.32	1A	4920		42	9	-18	833	2091	164L	23
FLOODLIGHT	350137.70	1104241.75	1A	4924		46	13	-14	1488	2746	20R	8
POLE	350139.96	1104243.20	1A	4927		49	16	-11	1504	2762	277R	11

OC0462

AIRPORT ELEVATION 4938

11 C 4897/4897 350144.830N 1104337.865W 2993945

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	350109.85	1104221.16	1A	4870		-27	-27	-68	-7294		85L	2
FENCE	350111.76	1104221.13	1A	4869		-28	-28	-69	-7200		254L	1
BUSH	350126.22	1104253.81	1A	4884		-13	-13	-54	-4115		179L	6
FENCE	350149.14	1104340.27	1A	4905		8	8	-33	389		280L	2
LEVEE	350144.71	1104344.15	1A	4905		8	8	-33	448		269R	1
BUSH ON LEVEE	350147.54	1104343.70	1A	4908		11	11	-30	558		2R	1
BUSH	350149.99	1104343.17	1A	4909		12	12	-29	641		235L	-1
POST	350155.25	1104356.11	1A	4929		32	32	-9	1840		164L	-16
POLE	350158.51	1104359.53	1A	4950		53	53	12	2250		310L	-7

29 SUPLC 4868/ 350110.068N 1104223.689W 1194028 4869/4880 350111.981N 1104227.769W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	350126.22	1104253.81	1A	4884		16	4	-54	-2985	-2595	179R	6
FENCE	350111.76	1104221.13	1A	4869		1	-11	-69	100	491	254R	1
FENCE	350109.85	1104221.16	1A	4870		2	-10	-68	194	584	85R	2
FENCE	350106.02	1104221.12	1A	4872		4	-8	-66	388	779	249L	-2
ROAD (N)	350103.82	1104218.31	1A	4888		20	8	-50	702	1093	328L	5
TREE	350104.32	1104217.64	1A	4885		17	5	-53	725	1116	256L	2
TREE	350104.87	1104215.44	1A	4886		18	6	-52	856	1247	117L	-1
TREE	350102.18	1104213.38	1A	4896		28	16	-42	1139	1530	269L	1
OL ON HOPPER	350055.62	1104153.49	1A	4955		87	75	17	2906	3296	25L	7
HOPPER	350051.90	1104153.69	1A	4945		77	65	7	3077	3468	361L	-8

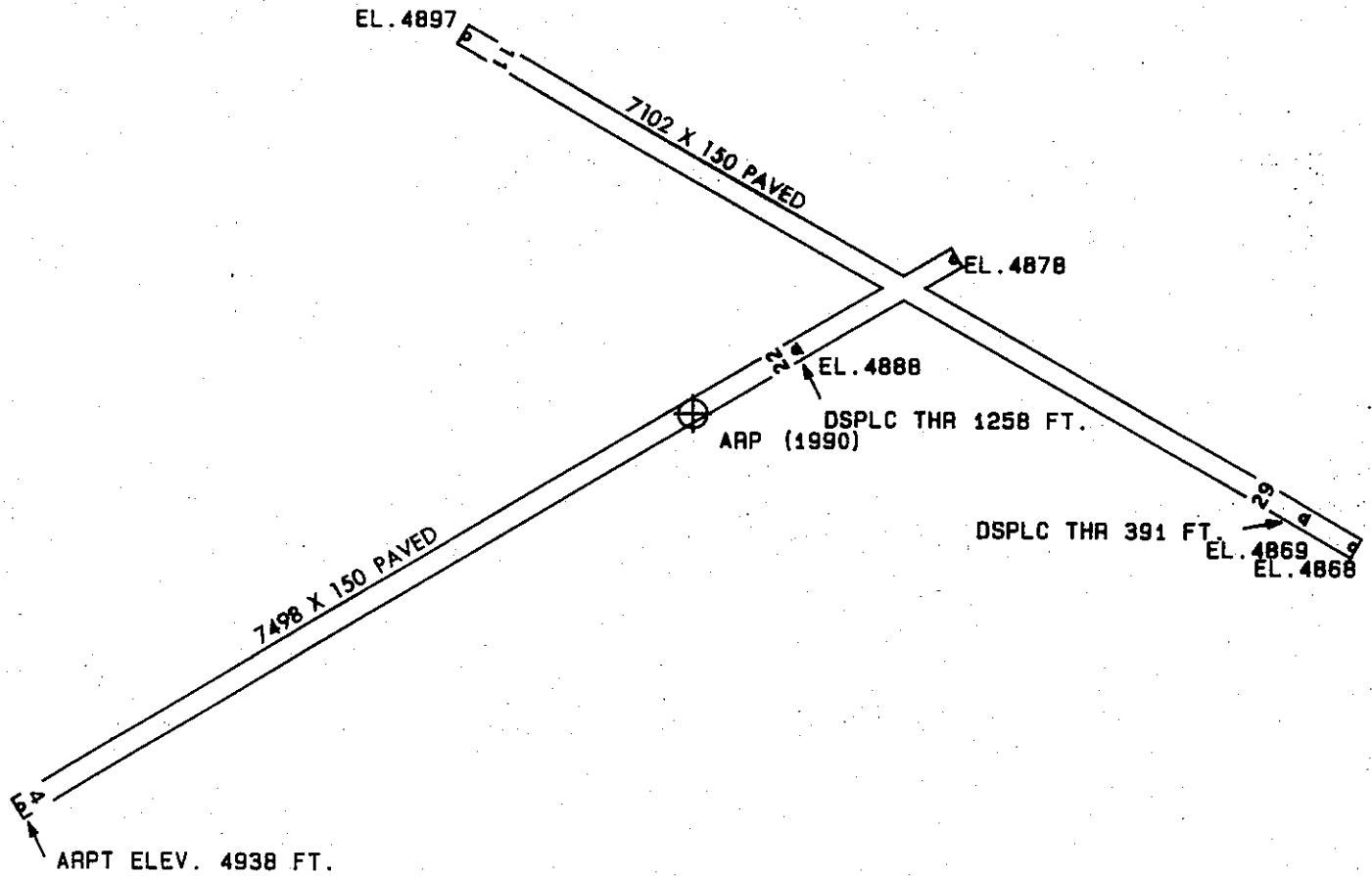
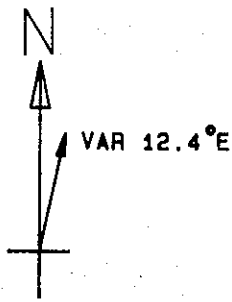


OC0462

AIRPORT ELEVATION 4938

ARP 350118.781N 1104318.546W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
FLOODLIGHT	350115.36	1104313.56	1A	4934		-4	117 26	540
ROD ON DF ANTENNA	350124.87	1104321.98	1A	4928		-10	322 44	679
OL ON LIGHTED WINDSOCK	350127.05	1104312.41	1A	4918		-20	19 1	979
TREE	350131.71	1104300.84	1A	4892		-46	36 0	1969
ANTENNA ON AIRPORT BEACON	350119.08	1104254.27	1A	4938		0	76 44	2020
BUSH	350127.31	1104253.57	1A	4890		-48	55 4	2249
DOVE	350117.49	1104250.95	1A	4911		-27	80 51	2299
POLE	350144.18	1104324.39	1A	4916		-22	336 53	2614
TREE	350138.76	1104338.56	1A	4927		-11	308 7	2617
POLE	350141.89	1104247.91	1A	4945		7	35 5	3457
BUSH	350149.56	1104339.19	1A	4911		-27	318 43	3554
SIGN	350151.45	1104343.23	1A	4910		-28	315 44	3889
BUSH	350113.48	1104223.79	1A	4875		-63	84 18	4586
TREE	350101.43	1104220.90	1A	4901		-37	97 42	5106
ROD ON OL RADIO TOWER	350207.29	1104256.09	1B	5036		98	8 27	5248
POST	350050.65	1104423.04	1A	4955		17	229 40	6072
OL TANK	350040.86	1104153.01	1B	5012		74	105 55	8082
ANTENNA ON MICROWAVE TOWER	350116.92	1104137.91	1B	4997		59	78 53	8372



TOUCHDOWN ZONE RUNWAY ELEVATION	
4	4938
22	4911
11	4897
29	4880

WINSLOW MUNICIPAL AIRPORT  
 WINSLOW, ARIZONA  
 (NOT TO SCALE)