

# OBSTRUCTION DATA SHEET

**ODS 450  
STEWART INTERNATIONAL AIRPORT  
NEWBURGH, NEW YORK**

**DIGITIZED FROM**

**OC 450  
SURVEYED JUNE 1990  
6TH EDITION**



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THE NATIONAL OCEAN SERVICE  
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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:

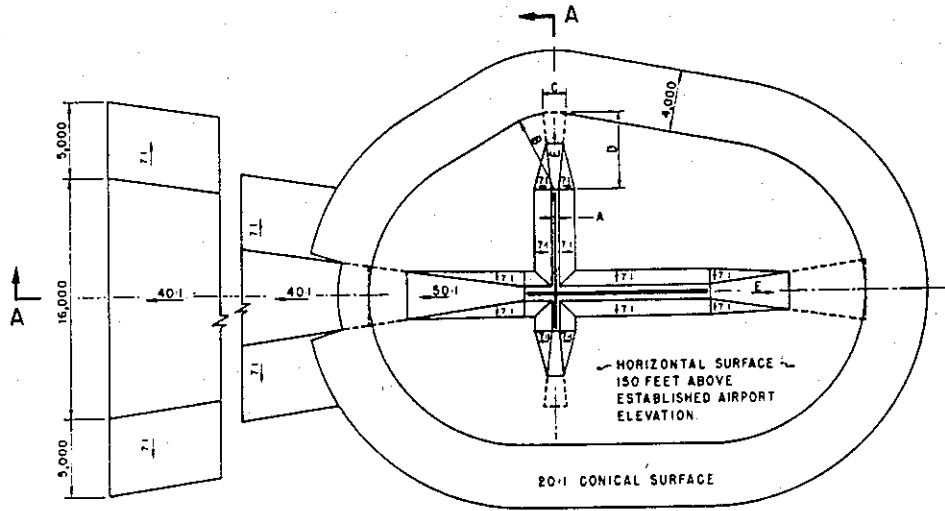
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

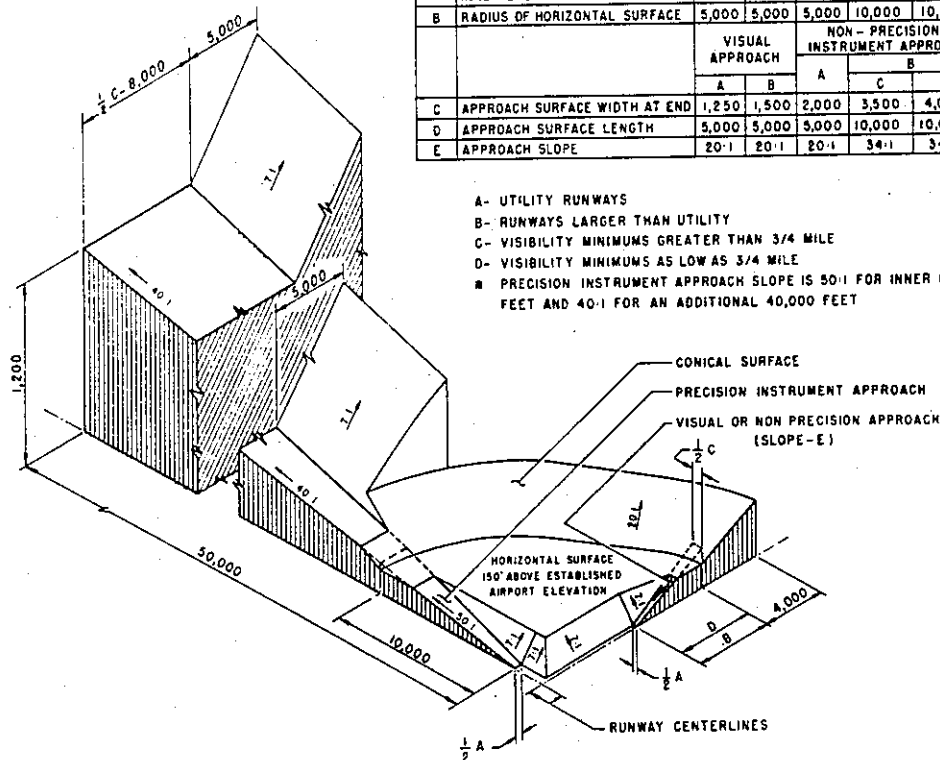
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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
		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

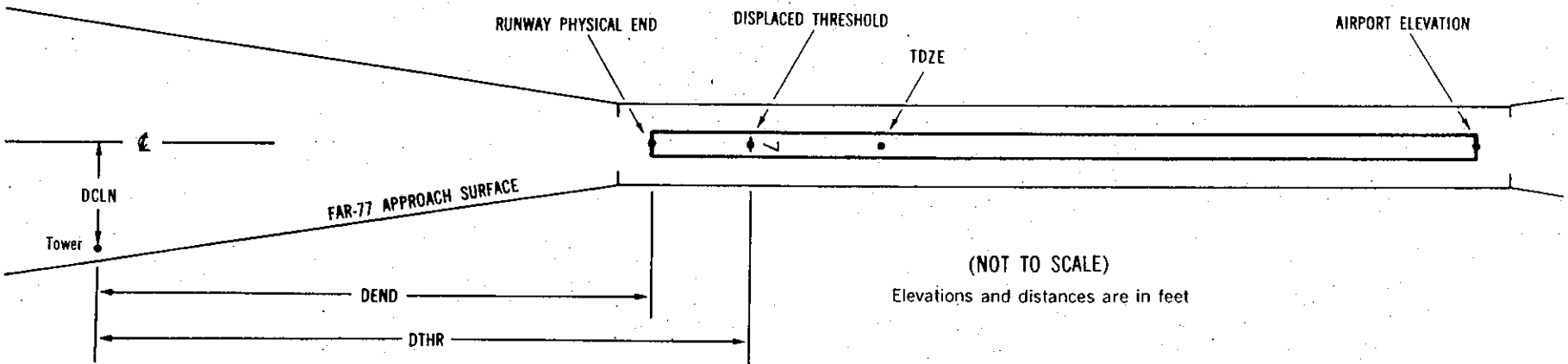
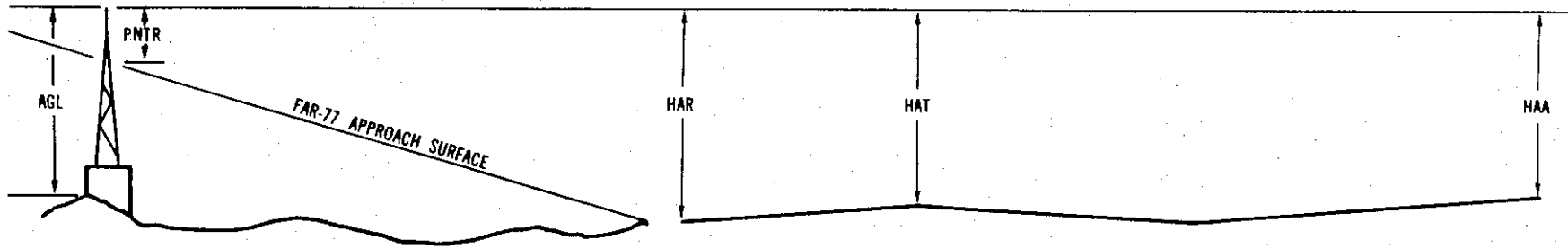
OC XXXX

AIRPORT ELEVATION XXXX

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

\*\*\*\*\*



(NOT TO SCALE)

Elevations and distances are in feet

## EXPLANATION OF FOOTNOTES

- <sup>1</sup> 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.
- <sup>2</sup> For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- <sup>3</sup> Reference runway approach physical end elevation/touchdown zone elevation
- <sup>4</sup> Latitude and longitude of reference runway approach physical end
- <sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south
- <sup>6</sup> Reference runway displaced threshold elevation/touchdown zone elevation
- <sup>7</sup> Latitude and longitude of reference runway displaced threshold
- <sup>8</sup> Accuracy Code:
- |  | Horizontal | Vertical |
|--|------------|----------|
|  | 1 = 20     | A = 2    |
|  | 2 = 40     | B = 5    |
|  |            | C = 20   |
- <sup>9</sup> 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.
- <sup>10</sup> 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.
- <sup>11</sup> HAA - Height above airport  
 HAR - Height above reference runway approach physical end  
 HAT - Height above reference runway touchdown zone elevation
- <sup>12</sup> 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.
- <sup>13</sup> PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0450

AIRPORT ELEVATION 491

9 PIR 491/ 413002.680N 0740751.457W 2582141 482/482 413006.650N 0740725.816W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	413028.42	0740517.63	1A	483		-8	1	-8	-11990	-9997	194L	15
BUSH	413029.30	0740522.46	1A	487		-4	5	-4	-11648	-9656	354L	18
OL ON TRANSMISSOMETER	413027.17	0740538.72	1A	489		-2	7	-2	-10393	-8401	393L	20
OL ANEMOMETER	413015.71	0740600.49	1A	493		2	11	2	-8536	-6544	410R	28
OL ON TRANSMISSOMETER	413020.57	0740622.30	1A	482		-9	0	-9	-7010	-5018	406L	15
OL ON TRANSMISSOMETER	413006.05	0740704.02	1A	489		-2	7	-2	-3604	-1612	394R	13
OL ON GLIDE SLOPE	413013.02	0740710.69	1A	512		21	30	21	-3249	-1257	400L	35
INNER MARKER	413007.23	0740737.71	1A	496		5	14	5	-1118	874	240L	10
FENCE	412956.71	0740755.61	1A	529		38	47	38	432	2424	528R	33
TREE	412956.23	0740758.89	1A	543		52	61	52	686	2678	525R	42
MIDDLE MARKER	413001.28	0740800.49	1A	515		24	33	24	702	2694	0L	14
TREE	412954.93	0740830.53	1A	554		63	72	63	3071	5063	168R	6
TREE	412958.54	0740832.59	1A	557		66	75	66	3150	5142	221L	7
TREE	412957.25	0740833.05	1A	560		69	78	69	3211	5203	100L	9
TREE	412954.46	0740929.59	1A	653		162	171	162	7482	9474	693L	16
TREE	412941.94	0740936.15	1A	668		177	186	177	8226	10218	448R	16

OC0450

AIRPORT ELEVATION 491

27 C 468/ 413026.206N 0740519.336W 0782321 468/468 413022.248N 0740544.959W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
INNER MARKER	413007.23	0740737.71	1A	496		28	28	5	-10700	-8709	240R	10
OL ON GLIDE SLOPE	413013.02	0740710.69	1A	512		44	44	21	-8568	-6578	400R	35
OL ON TRANSMISSOMETER	413006.05	0740704.02	1A	489		21	21	-2	-8213	-6223	394L	13
OL ON TRANSMISSOMETER	413020.57	0740622.30	1A	482		14	14	-9	-4808	-2817	406R	15
OL ANEMOMETER	413015.71	0740600.49	1A	493		25	25	2	-3281	-1291	410L	28
OL ON TRANSMISSOMETER	413027.17	0740538.72	1A	489		21	21	-2	-1425	566	393R	20
BUSH	413029.30	0740522.46	1A	487		19	19	-4	-170	1821	354R	18
BUSH	413028.42	0740517.63	1A	483		15	15	-8	172	2162	194R	15
OL ON LOCALIZER	413027.06	0740513.78	1A	474		6	6	-17	432	2422	0L	-1
TREE	413028.74	0740510.23	1A	488		20	20	-3	730	2720	112R	4
TREE	413032.06	0740506.44	1A	516		48	48	25	1080	3070	383R	22
TREE	413029.78	0740505.32	1A	535		67	67	44	1117	3107	140R	40
TREE	413029.00	0740502.77	1A	535		67	67	44	1291	3282	24R	35
TREE	413038.97	0740443.57	1A	555		87	87	64	2926	4916	718R	7



OC0450

AIRPORT ELEVATION 491

16 C 471/471 413039.923N 07406 6.512W 3292220

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	413032.55	0740556.88	1A	471		0	0	-20	-1015		250L	2
GROUND	413040.12	0740602.85	1A	474		3	3	-17	-125		250L	3
GROUND	413041.89	0740604.24	1A	474		3	3	-17	83		250L	3
TREE	413050.01	0740612.06	1A	501		30	30	10	1094		157L	4
POLE	413051.20	0740610.85	1A	504		33	33	13	1150		297L	5
TREE	413052.96	0740610.72	1A	542		71	71	51	1298		397L	39
TREE	413052.50	0740613.62	1A	526		55	55	35	1371		184L	21
TREE	413058.22	0740615.55	1A	559		88	88	68	1944		352L	37
TREE	413103.54	0740625.45	1A	553		82	82	62	2791		22R	6
TREE	413106.70	0740626.53	1A	572		101	101	81	3108		70L	15
TREE	413103.48	0740634.73	1A	571		100	100	80	3146		632R	13
TREE	413116.31	0740638.92	1A	604		133	133	113	4425		245R	9
TREE	413115.23	0740641.81	1A	611		140	140	120	4443		490R	15

34 C 437/462 412948.863N 0740526.306W 1492246

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	413041.89	0740604.24	1A	474		37	12	-17	-6088		250R	3
GROUND	413040.12	0740602.85	1A	474		37	12	-17	-5881		250R	3
GROUND	413032.55	0740556.88	1A	471		34	9	-20	-4990		250R	2
TREE	412943.34	0740518.42	1A	454		17	-8	-37	786		232R	-1
TREE	412934.01	0740520.95	1A	462		25	0	-29	1501		415L	-13

AIRPORT ELEVATION 491

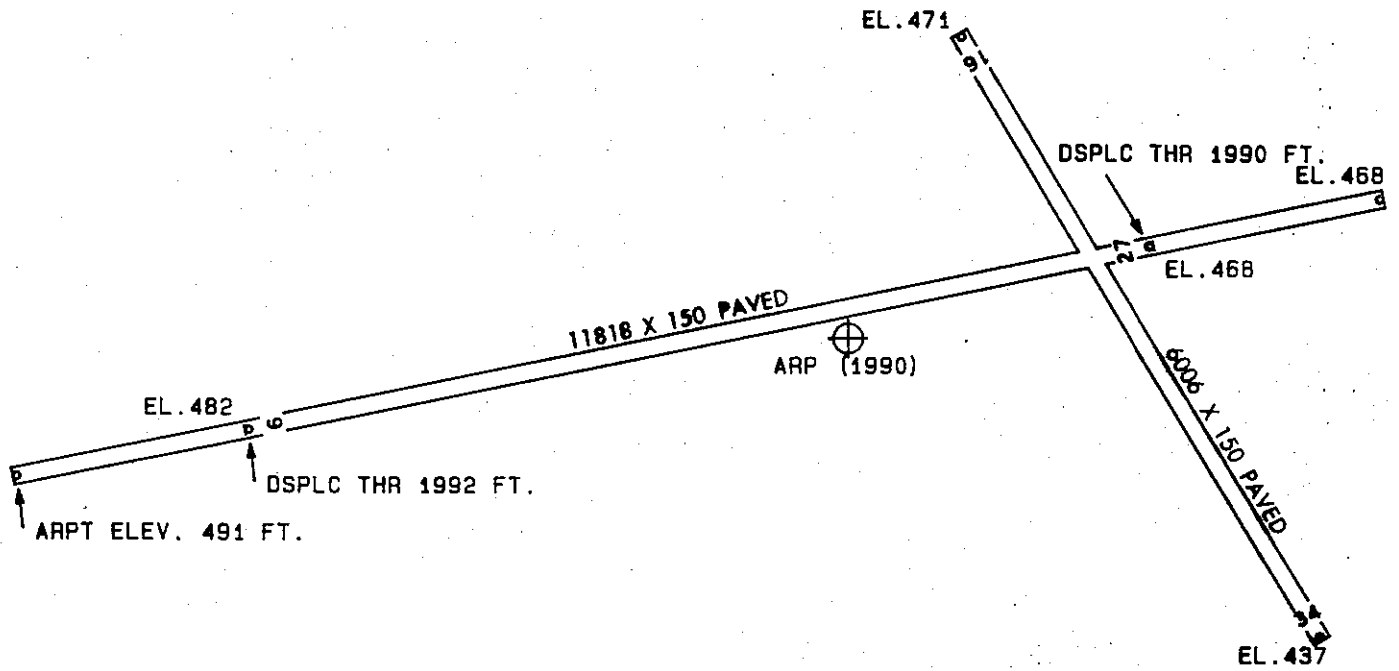
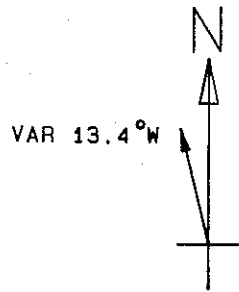
ARP 413014.431N 0740618.891W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
TREE	413020.57	0740638.02	1A	491		0	306	32	1582
ANT & APBN ON OL CTL TWR	413001.12	0740550.05	1A	635		144	134	56	2575
TREE	413020.64	0740652.01	1A	536		45	297	25	2597
TREE	413042.67	0740616.01	1A	526		35	17	47	2866
OL ON HANGAR	413017.84	0740702.02	1A	496		5	289	25	3300
OL ON HANGAR	413031.92	0740539.45	1A	527		36	72	51	3484
ANTENNA ON POLE	412949.72	0740546.45	1A	568		77	148	46	3514
TREE	413051.43	0740606.84	1A	522		31	27	9	3855
TREE	412936.08	0740623.76	1B	651		160	198	51	3899
OL ON FLOODLIGHT	413015.83	0740526.41	1A	524		33	101	22	3996
TREE	413035.65	0740533.65	1A	565		74	71	26	4058
TREE	413033.34	0740530.92	1A	534		43	75	43	4122
BUSH	413030.29	0740528.05	1A	489		-2	80	51	4188
TREE	413055.98	0740610.71	1A	556		65	21	49	4251
ANTENNA	413032.04	0740527.14	1A	511		20	79	3	4322
TREE	413034.60	0740524.89	1A	539		48	76	58	4588
TREE	412956.17	0740714.49	1A	605		114	259	48	4617
TREE	413031.25	0740521.01	1A	513		22	82	16	4722
ROD ON OL ASR	412925.79	0740622.00	1A	474		-17	196	9	4929
TREE	413101.00	0740640.96	1A	587		96	353	48	5004
TREE	413015.66	0740725.71	1A	551		60	284	49	5086
TREE	413104.94	0740616.21	1A	601		110	15	41	5116
TREE	413108.67	0740609.36	1A	659		168	20	56	5537
OL ON TANK	413019.61	0740505.59	1A	520		29	98	2	5602
TREE	412936.33	0740524.04	1A	461		-30	146	8	5682
TREE	413013.46	0740735.16	1A	546		55	282	26	5804
TREE	413111.25	0740603.78	1B	644		153	24	42	5865
TREE	413104.37	0740526.50	1B	634		143	51	39	6437
TREE	412956.01	0740752.97	1A	533		42	268	49	7398
TREE	413041.18	0740445.48	1A	566		75	82	32	7605
TREE	413132.95	0740549.71	1B	690		199	29	0	8251
TREE	413132.89	0740519.95	1B	678		187	42	51	9120
TREE	412839.15	0740651.59	1B	643		152	207	52	9960

AIRPORT ELEVATION 491

ARP 413014.431N 0740618.891W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	412942.38	0740832.35	1A	654		163	265 42	10661
TREE	412933.78	0740831.23	1B	719		228	261 11	10879
TREE	412927.64	0740832.56	1B	721		230	258 27	11221
OL ON RADIO MAST	412824.19	0740821.83	2A	796	223	305	233 23	14562



TOUCHDOWN ZONE RUNWAY ELEVATION	
9	482
27	468
16	471
34	462

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 (NOT TO SCALE)