OBSTRUCTION DATA SHEET

ODS 5250
WINDHAM AIRPORT
WILLIMANTIC, CONNECTICUT

DIGITIZED FROM

OC 5250
SURVEYED 27 MAY 1992
1ST EDITION

HORIZONTAL DATUM NAD83
VERTICAL DATUM NGVD29

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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).

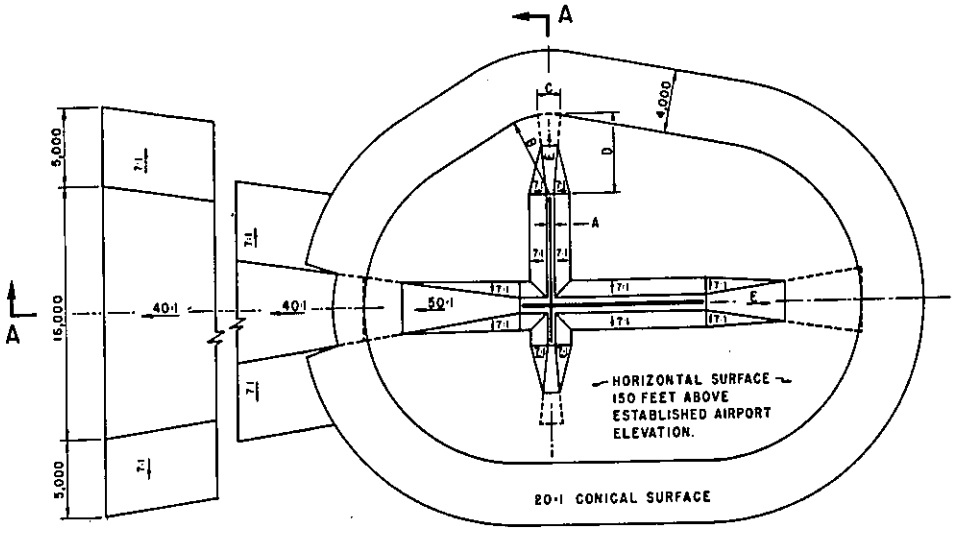
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

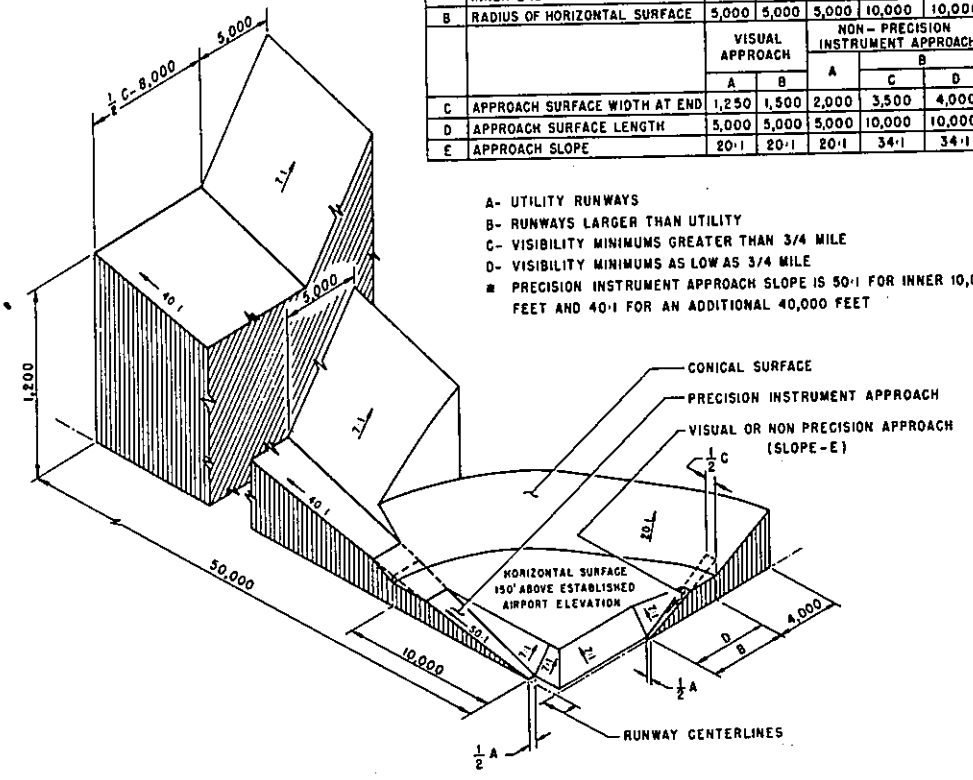
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision 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	B C	B 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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B C	B 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[1] X[2] XXXX/XXXX[3] XXXXXX.XXX[4] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.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]
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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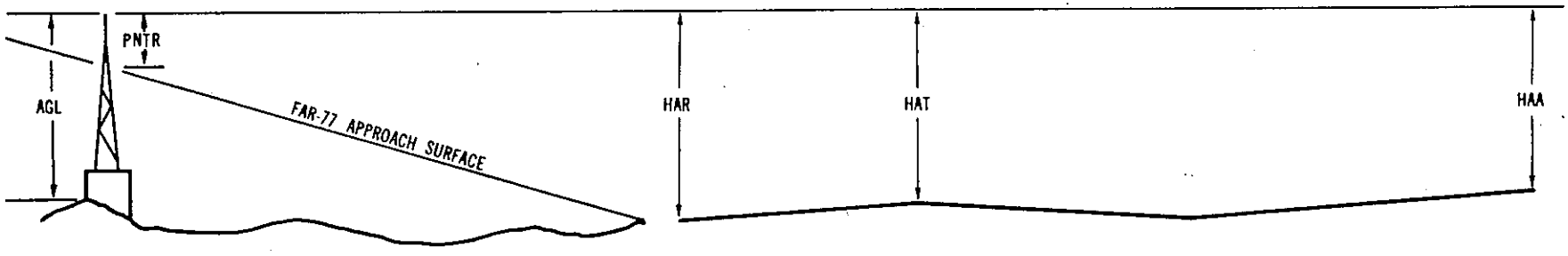

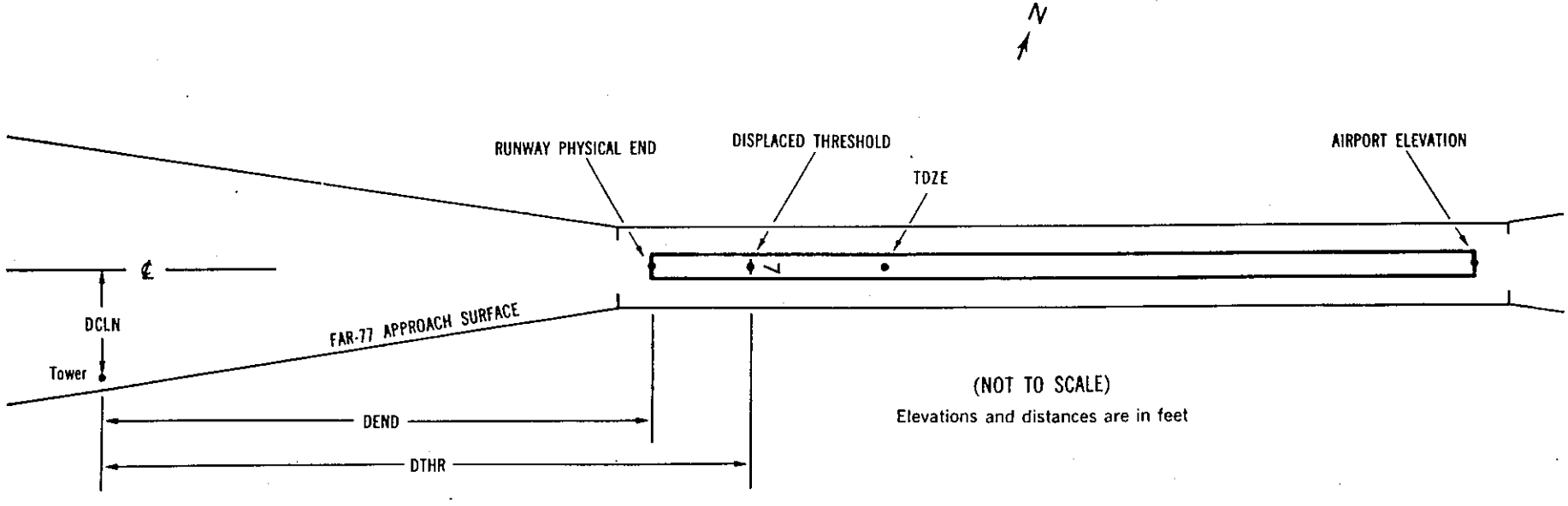

(NOT TO SCALE)

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 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 displace threshold

8 Accuracy codes:

Horizontal	Vertical
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 displace 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 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

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AIRPORT ELEVATION 247

18 AV 235/ 414446.609 -721108.391 1632535.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	414453.48	-721113.54	1A	297		62		50	778		176R	33
TREE	414455.54	-721114.50	1A	303		68		56	998		186R	28
TREE	414459.13	-721114.75	1A	299		64		52	1352		101R	6
TREE	414500.08	-721111.59	1A	317		82		70	1376		156L	23
TREE	414500.14	-721114.11	1A	305		70		58	1437		25R	8

36 AV 247/ 414420.121 -721057.866 3432542. 246/ 414422.762 -721058.915

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	414418.04	-721055.75	1A	261		14		14	248	527	93R	12
TREE	414414.38	-721053.90	1A	308		61		61	643	922	122R	39
TREE	414409.92	-721053.16	1A	321		74		74	1092	1371	47R	30
TREE	414400.07	-721050.78	1A	349		102		102	2098	2377	64L	7
TREE	414351.06	-721046.56	1A	402		155		155	3064	3343	17L	12
TREE	414349.55	-721043.24	1A	412		165		165	3282	3561	180R	11

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AIRPORT ELEVATION 247

9 SUPLC 240/ 414436.259 -721106.689 742514. 240/ 240 414436.951 -721103.372

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	414445.65	-721009.44	1A	285		45	45	38	-4435	-4174	250R	45
FENCE	414449.91	-721011.56	1A	246		6	6	-1	-4397	-4136	209L	6
TREE	414445.83	-721010.37	1A	258		18	18	11	-4373	-4112	214R	18
TREE	414444.03	-721017.87	1A	289		49	49	42	-3776	-3515	236R	49
OL ON LOC	414436.04	-721107.76	1A	247		7	7	0	84	345	0R	7
TREE	414437.85	-721110.47	1A	289		49	49	42	233	494	232L	48
TREE	414434.36	-721109.85	1A	251		11	11	4	282	543	121R	9
TREE	414437.93	-721111.52	1A	297		57	57	50	307	568	261L	54
TREE	414432.22	-721113.76	1A	285		45	45	38	626	887	250R	33
TREE	414434.01	-721115.21	1A	271		31	31	24	683	944	45R	17
TREE	414436.71	-721116.68	1A	271		31	31	24	717	978	248L	16
TREE	414431.44	-721116.63	1A	299		59	59	52	857	1118	268R	40

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AIRPORT ELEVATION 247

27 C /SUP 240/ 240 414447.605 -721012.333 2542550.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LOC	414436.04	-721107.76	1A	247		7	7	0	-4361		OR	7
TREE	414444.03	-721017.87	1A	289		49	49	42	-501		236L	49
TREE	414445.83	-721010.37	1A	258		18	18	11	95		214L	18
FENCE	414449.91	-721011.56	1A	246		6	6	-1	119		209R	6
TREE	414445.65	-721009.44	1A	285		45	45	38	158		250L	45
OL ON POLE	414453.57	-721001.18	1A	281		41	41	34	976		355R	19
TREE	414447.06	-720958.11	1A	312		72	72	65	1024		343L	48
OL ON POLE	414450.17	-720955.11	1A	295		55	55	48	1327		100L	22
TREE	414449.29	-720952.02	1A	318		78	78	71	1529		249L	39
TREE	414448.49	-720949.79	1A	328		88	88	81	1670		372L	45
TREE	414456.07	-720947.81	1A	334		94	94	87	2021		326R	41
TREE	414453.08	-720940.41	1A	348		108	108	101	2480		116L	41
TREE	414454.68	-720939.18	1A	343		103	103	96	2613		15R	32
TREE	414457.07	-720937.32	1A	346		106	106	99	2814		210R	29
TREE	414454.96	-720905.35	1A	413		173	173	166	5091		645L	30
TREE	414457.66	-720857.76	1A	449		209	209	202	5719		536L	47
TREE	414508.83	-720833.78	1A	529		289	289	282	7773		66R	67
TREE	414514.80	-720835.95	1A	524		284	284	277	7777		692R	62
TREE	414508.14	-720823.72	1A	558		318	318	311	8489		206L	75
TREE	414503.48	-720820.77	1A	576		336	336	329	8578		720L	90
TREE	414500.15	-720804.17	1A	652		412	412	405	9700		1382L	133

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AIRPORT ELEVATION 247

ARP 414438.545 -721048.850

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
FENCE POST	414438.32	-721042.15	1A	249		2	10720	509
TREE	414436.75	-721038.86	1A	318		71	11816	779
OL ON LTD WSK	414434.46	-721058.51	1A	269		22	25520	841
OL ON WSK ON HGR	414428.49	-721056.42	1A	282		35	22412	1168
ROD ON OL APBN	414427.11	-721045.97	1A	332		85	18408	1178
TREE	414437.80	-721032.98	1A	331		84	10822	1205
OL ON DME	414433.64	-721106.34	1A	258		11	26415	1416
TREE	414440.46	-721029.45	1A	266		19	9718	1483
TREE	414448.84	-721105.32	1A	283		36	32439	1627
TREE	414429.13	-721106.30	1A	289		42	24902	1631
TREE	414439.52	-721110.56	1A	301		54	28813	1649
TREE	414430.88	-721108.57	1A	297		50	25723	1684
TREE	414438.56	-721111.30	1A	302		55	28451	1702
TREE	414442.71	-721111.52	1A	306		59	29834	1769
TREE	414425.25	-721104.39	1A	279		32	23559	1789
TREE	414441.34	-721112.28	1A	304		57	29351	1798
TREE	414441.86	-721025.04	1A	263		16	9415	1836
TREE	414436.65	-721024.58	1A	356		109	11044	1850
TREE	414445.20	-721112.31	1A	304		57	30532	1901
TREE	414447.91	-721111.61	1A	286		39	31335	1969
TREE	414422.41	-721103.64	1A	281		34	22916	1981
TREE	414418.18	-721051.91	1A	319		72	20112	2074
TREE	414438.28	-721019.95	1A	359		112	10530	2191
TREE	414418.89	-721101.13	1A	286		39	21952	2196
TREE	414443.29	-721020.40	1A	302		55	9214	2210
TREE	414454.91	-721108.67	1A	318		71	33235	2236
TREE	414450.95	-721113.28	1A	316		69	31856	2237
TREE	414417.78	-721059.50	1A	263		16	21548	2252
LT STANDARD	414416.62	-721054.43	1A	279		32	20535	2260
TREE	414456.71	-721107.66	1A	324		77	33700	2327
TREE	414416.34	-721058.91	1A	285		38	21332	2374

AIRPORT ELEVATION 247

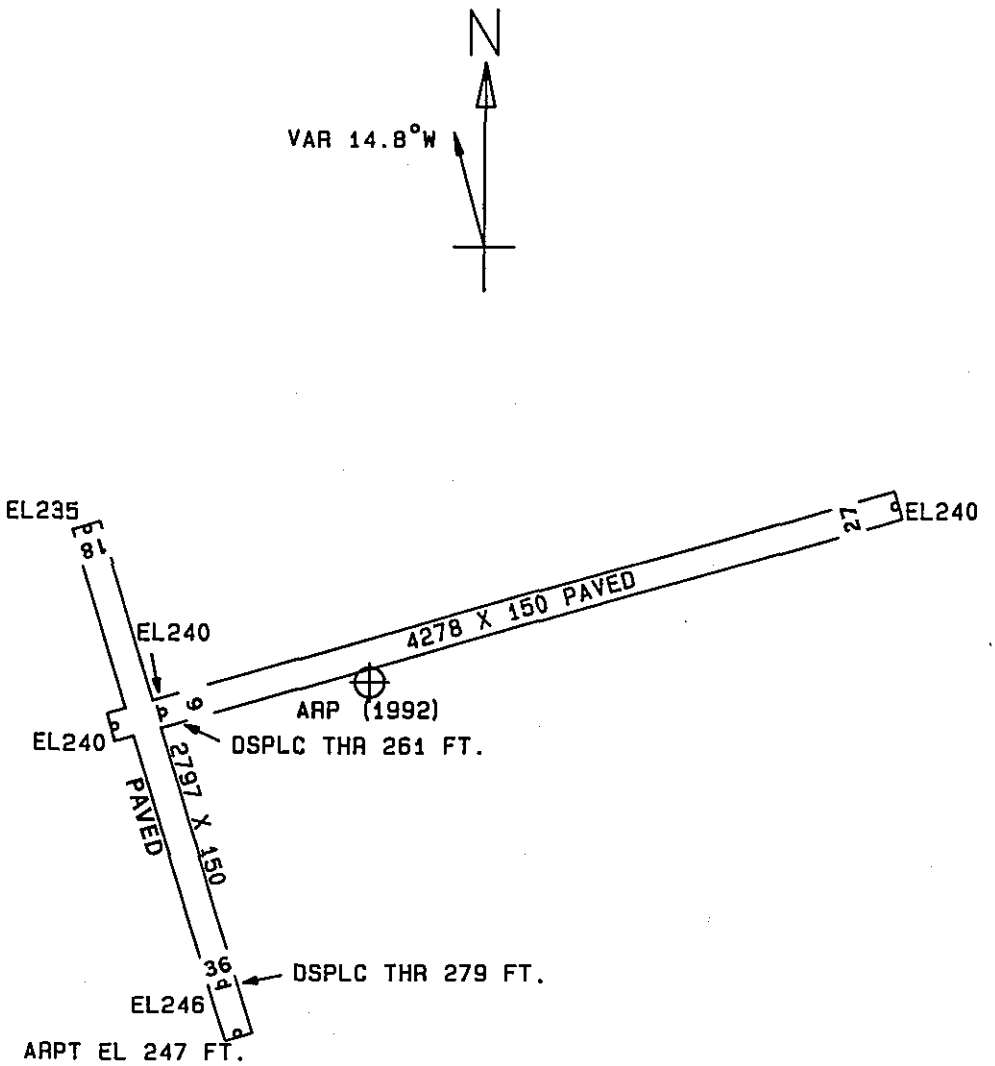
ARP 414438.545 -721048.850

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON POLE	414450.60	-721018.83	1A	282		35	7635	2582
TREE	414414.42	-721102.09	1A	297		50	21708	2640
TREE	414411.37	-721057.39	1A	315		68	20803	2826
OL ON POLE	414451.18	-721014.54	1A	281		34	7836	2898
TREE	414409.40	-721049.84	1A	326		79	19615	2951
TREE	414444.07	-721010.31	1A	309		62	9357	2974
OL ON POLE	414452.13	-721010.12	1A	281		34	7942	3242
OL ON POLE	414453.09	-721005.67	1A	281		34	8034	3589
TREE	414445.05	-721001.55	1A	341		94	9423	3645
TREE	414446.10	-720959.40	1A	324		77	9316	3825
STACK	414400.74	-721111.24	1B	347		100	21843	4186
TREE	414456.95	-720951.98	1A	338		91	8125	4696
TREE	414349.93	-721052.69	1A	384		137	19811	4929
TREE	414455.32	-721155.82	1B	532		285	30317	5353
TREE	414458.51	-721155.73	1B	551		304	30632	5458
TRMSN TWR	414536.91	-721046.01	1B	396		149	1653	5912
TREE	414504.47	-721159.35	1B	568		321	31057	5954
TREE	414510.70	-721204.79	1B	577		330	31417	6613
TREE	414536.76	-721201.19	1B	564		317	33152	8049
TREE	414340.10	-720924.62	1B	588		341	14736	8705
TRMSN POLE	414556.95	-720951.92	1B	436		189	4319	9033
TREE	414600.41	-720950.51	1A	442		195	4252	9393
TREE	414436.03	-720843.81	1B	609		362	10619	9482
TREE	414614.80	-721005.26	1A	478		231	3331	10288
TREE	414435.58	-721309.13	1B	523		276	28311	10638
ROD ON OL RADIO MAST	414255.68	-721121.40	1A	564	407	317	20808	10700
TRMSN POLE	414450.75	-721318.43	1B	604		357	29101	11406
TREE	414259.39	-720928.36	2C	540		293	16329	11746
TREE	414408.94	-720808.73	1B	629		382	11839	12503
TREE	414646.07	-720954.91	2C	525		278	3222	13540
TREE	414607.11	-721313.09	2C	597		350	32409	14138

AIRPORT ELEVATION 247

ARP 414438.545 -721048.850

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	414519.66	-721354.51	2C	625		378	30117	14675
TREE	414539.70	-720740.17	2C	546		299	8122	15583
TREE	414419.17	-720709.53	2C	622		375	11130	16741



TOUCHDOWN ZONE RUNWAY	ELEVATION
9	240
27	240

WINDHAM AIRPORT

WILLIMANTIC, CONNECTICUT

(NOT TO SCALE)