

OBSTRUCTION DATA SHEET

**ODS 931
MORRISTOWN MUNICIPAL AIRPORT
MORRISTOWN, NEW JERSEY**

DIGITIZED FROM

**OC 931
SURVEYED MAY 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:

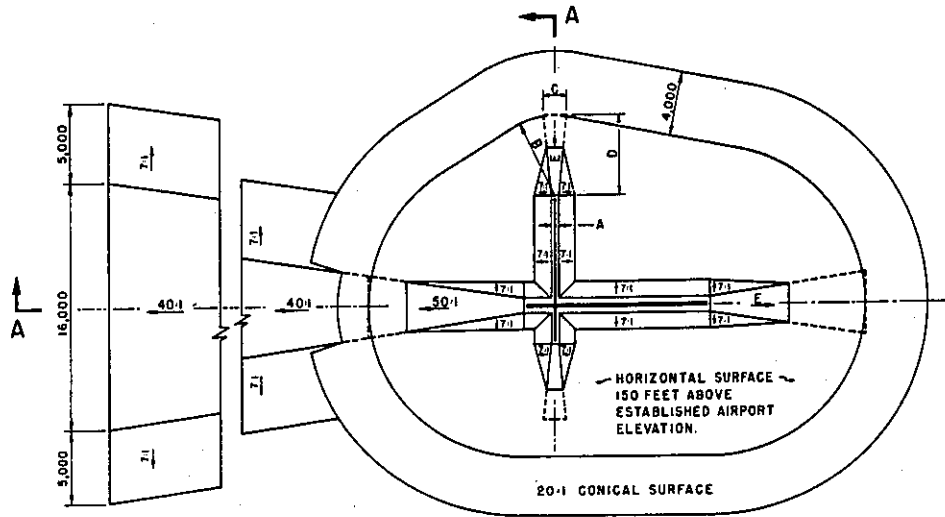
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

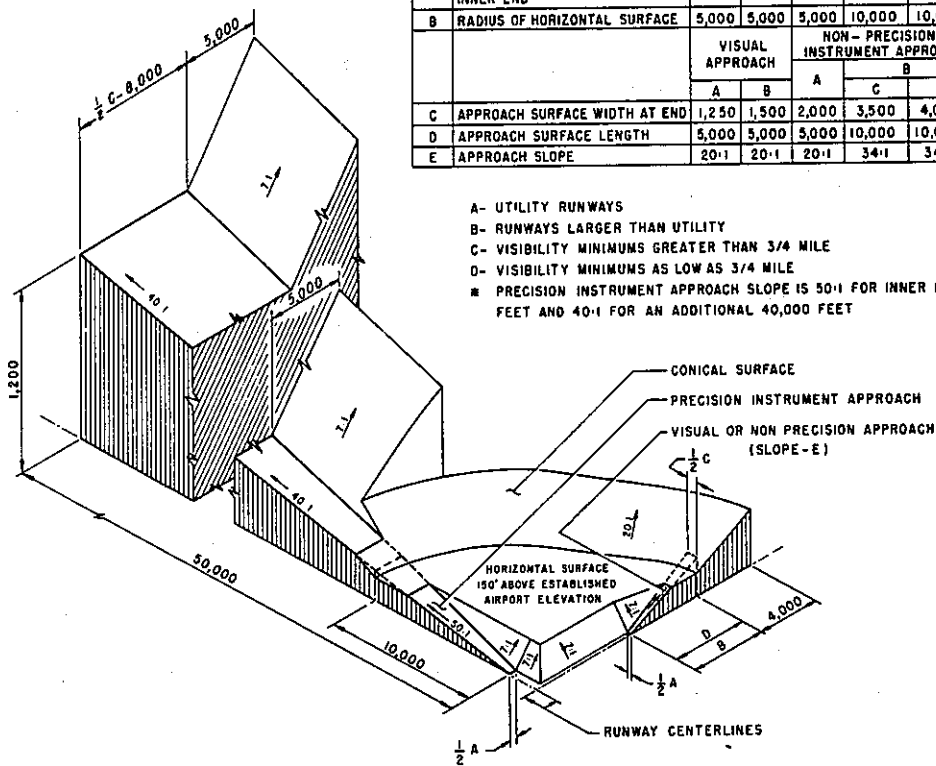
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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
		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

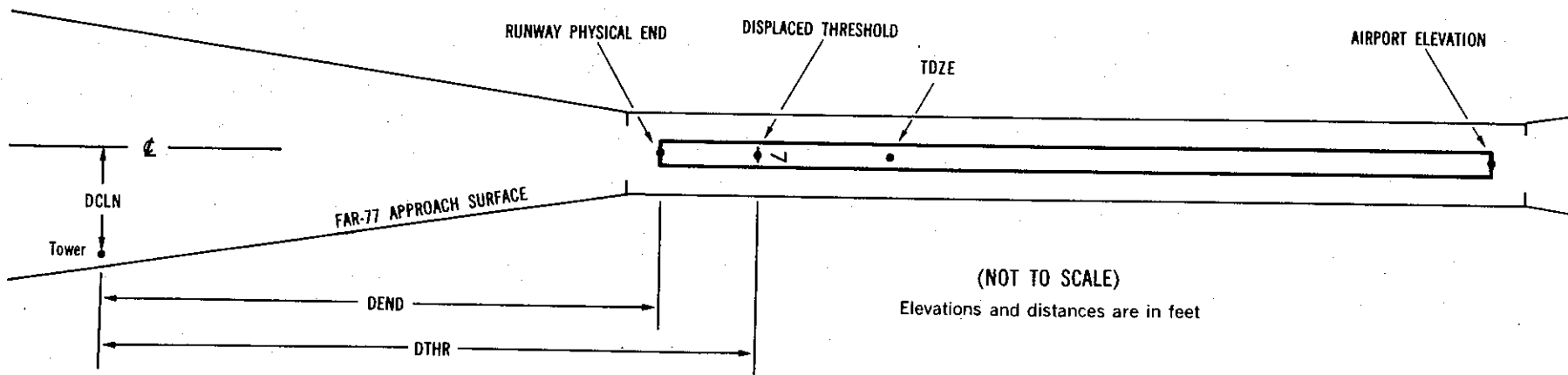
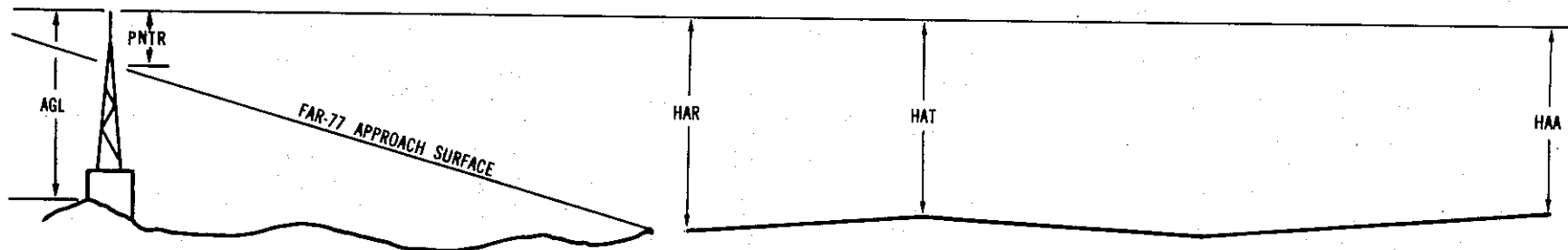
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x¹ x² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

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).

OC0931

AIRPORT ELEVATION 187

5 PIR 182/184 404734.807N 0742510.722W 2160628

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404820.33	0742419.89	1A	209		27	25	22	-6026		443R	26
OL ON LIGHTED WINDSOCK	404822.94	0742428.75	1A	193		11	9	6	-5837		263L	10
TREE	404816.30	0742423.42	1A	206		24	22	19	-5536		464R	22
TREE	404821.92	0742433.61	1A	227		45	43	40	-5534		504L	43
OL ON GLIDE SLOPE	404812.77	0742429.94	1A	207		25	23	20	-4952		270R	23
TREE	404811.13	0742431.65	1A	225		43	41	38	-4740		261R	41
TREE	404802.78	0742439.15	1A	214		32	30	27	-3718		294R	31
TREE	404806.01	0742448.34	1A	208		26	24	21	-3566		470L	25
TREE	404756.88	0742443.79	1A	223		41	39	36	-3026		357R	40
TREE	404752.90	0742446.21	1A	224		42	40	37	-2591		444R	40
TREE	404752.03	0742447.58	1A	221		39	37	34	-2457		411R	37
TREE	404755.68	0742458.55	1A	199		17	15	12	-2258		488L	15
TREE	404750.38	0742503.32	1A	195		13	11	8	-1609		469L	11
TREE	404744.33	0742455.11	1A	230		48	46	43	-1486		402R	46
TREE	404739.88	0742500.02	1A	225		43	41	38	-900		362R	41
TREE	404735.06	0742505.22	1A	220		38	36	33	-270		326R	37
TREE	404733.27	0742507.50	1A	218		36	34	31	-20		292R	36
TREE	404736.47	0742516.81	1A	221		39	37	34	140		478L	39
TREE	404732.72	0742514.83	1A	205		23	21	18	357		131L	20
TREE	404733.24	0742518.63	1A	244		62	60	57	487		398L	56
TREE	404729.20	0742512.47	1A	207		25	23	20	538		226R	18
TREE	404732.90	0742521.29	1A	241		59	57	54	635		543L	50
TREE	404719.20	0742519.23	1A	271		89	87	84	1662		402R	60
TREE	404717.56	0742519.09	1A	272		90	88	85	1789		509R	58
TREE	404716.49	0742527.53	1A	275		93	91	88	2260		48R	52
BUILDING	404653.74	0742558.18	1A	381		199	197	194	5509		501L	93
TREE	404650.94	0742555.89	1A	391		209	207	204	5634		192L	100
TREE	404651.04	0742611.56	1A	482		300	298	295	6336		1171L	177
STANDPIPE	404650.53	0742614.76	1A	507		325	323	320	6523		1339L	199
TREE	404645.20	0742608.05	1A	491		309	307	304	6655		605L	180
TREE	404641.28	0742603.73	1A	454		272	270	267	6780		103L	140
CUPOLA ON BUILDING	404644.29	0742619.84	1A	477		295	293	290	7263		1284L	154
TREE	404617.93	0742606.07	1A	488		306	304	301	8795		1144R	134

AIRPORT ELEVATION 187

5 PIR 182/184 404734.807N 0742510.722W 2160628

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404631.99	0742634.39	1A	461		279	277	274	8929		1455L	104
TREE	404614.31	0742605.94	1A	486		304	302	299	9085		1368R	126
TREE	404626.81	0742629.03	1A	483		301	299	296	9110		812L	123
TREE	404621.58	0742640.90	1A	466		284	282	279	10076		1239L	86

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AIRPORT ELEVATION 187

23 PIR 183/184 404822.693N 0742424.753W 0360658

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404736.47	0742516.81	1A	221		38	37	34	-6138		478R	39
TREE	404733.27	0742507.50	1A	218		35	34	31	-5979		292L	36
TREE	404735.06	0742505.22	1A	220		37	36	33	-5729		326L	37
TREE	404739.88	0742500.02	1A	225		42	41	38	-5099		362L	41
TREE	404744.33	0742455.11	1A	230		47	46	43	-4513		402L	46
TREE	404750.38	0742503.32	1A	195		12	11	8	-4390		469R	11
TREE	404755.68	0742458.55	1A	199		16	15	12	-3741		488R	15
TREE	404752.03	0742447.58	1A	221		38	37	34	-3541		411L	37
TREE	404752.90	0742446.21	1A	224		41	40	37	-3408		444L	40
TREE	404756.88	0742443.79	1A	223		40	39	36	-2973		357L	40
TREE	404806.01	0742448.34	1A	208		25	24	21	-2433		470R	25
TREE	404802.78	0742439.15	1A	214		31	30	27	-2281		294L	31
TREE	404811.13	0742431.65	1A	225		42	41	38	-1258		261L	41
OL ON GLIDE SLOPE	404812.77	0742429.94	1A	207		24	23	20	-1047		270L	23
TREE	404821.92	0742433.61	1A	227		44	43	40	-465		504R	43
TREE	404816.30	0742423.42	1A	206		23	22	19	-462		464L	22
OL ON LIGHTED WINDSOCK	404822.94	0742428.75	1A	193		10	9	6	-161		263R	10
TREE	404820.33	0742419.89	1A	209		26	25	22	28		443L	26
TREE	404823.87	0742421.81	1A	200		17	16	13	230		113L	16
TREE	404827.83	0742428.22	1A	211		28	27	24	263		522R	27
TREE	404826.61	0742424.87	1A	202		19	18	15	315		241R	17
TREE	404826.25	0742422.22	1A	200		17	16	13	405		55R	13
TREE	404828.51	0742424.82	1A	214		31	30	27	472		351R	26
TREE	404826.12	0742419.97	1A	208		25	24	21	497		92L	19
TREE	404830.18	0742423.43	1A	227		44	43	40	672		364R	35
TREE	404831.66	0742420.13	1A	230		47	46	43	942		248R	32
TREE	404829.62	0742415.13	1A	217		34	33	30	1002		185L	18
TREE	404833.82	0742412.54	1A	227		44	43	40	1463		95L	19
TREE	404838.56	0742410.81	1A	237		54	53	50	1929		80R	19
TREE	404847.47	0742409.19	1A	270		87	86	83	2732		511R	36
TREE	404842.21	0742359.54	1A	264		81	80	77	2739		402L	30
TREE	404844.27	0742400.52	1A	265		82	81	78	2862		218L	29
TREE	404847.26	0742402.42	1A	274		91	90	87	3020		78R	35

AIRPORT ELEVATION 187

23 PIR 183/184 404822.693N 0742424.753W 0360658

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FLAG ON MOBILE CRANE	404916.32	0742331.83	1A	450*	230*	267	266	263	6783		88L	135

* Probable maximum obstructing height in mobile crane area.

12 SUPLC 187/187 404803.017N 0742529.773W 2935537

OBJECT.	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	404744.17	0742440.85	1A	189		2	2	2	-4213		217R	7
OL ON LIGHTED WINDSOCK	404801.05	0742529.15	1A	199		12	12	12	-124		163R	12
BUSH	404802.38	0742533.01	1A	197		10	10	10	201		160R	10
TREE	404806.32	0742532.11	1A	208		21	21	21	300		233L	18
TREE	404805.07	0742536.52	1A	218		31	31	31	559		20R	20
TREE	404812.01	0742544.21	1A	303		116	116	116	1384		382L	81
TREE	404811.64	0742546.61	1A	296		109	109	109	1538		272L	70
TREE	404810.06	0742558.90	1A	318		131	131	131	2337		257R	68
TREE	404815.31	0742601.89	1A	340		153	153	153	2762		135L	78
TREE	404818.14	0742602.20	1A	351		164	164	164	2900		387L	85
TREE	404814.17	0742605.68	1A	329		142	142	142	2982		88R	60
TREE	404825.77	0742620.34	1A	400		213	213	213	4489		527L	87
TREE	404827.42	0742630.18	1B	366		179	179	179	5248		374L	31

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AIRPORT ELEVATION 187

30 SUPLC 182/185 404746.992N 0742442.260W 1135608

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	404802.38	0742533.01	1A	197		15	12	10	-4199		160L	10
OL ON LIGHTED WINDSOCK	404801.05	0742529.15	1A	199		17	14	12	-3874		163L	12
BUSH	404744.17	0742440.85	1A	189		7	4	2	215		217L	7
TREE	404743.22	0742439.97	1A	201		19	16	14	316		278L	16
BUSH	404744.95	0742438.73	1A	192		10	7	5	332		79L	6
TREE	404744.73	0742430.63	1A	211		29	26	24	910		154R	8
TREE	404738.55	0742425.83	1A	245		63	60	58	1502		268L	25
TREE	404736.94	0742425.33	1A	252		70	67	65	1603		401L	29
TREE	404739.72	0742422.89	1A	247		65	62	60	1660		68L	22
TREE	404740.67	0742414.54	1A	266		84	81	79	2208		280R	25
TREE	404742.08	0742412.05	1A	277		95	92	90	2326		488R	32
TREE	404734.26	0742410.62	1A	278		96	93	91	2747		190L	21
TREE	404731.39	0742411.37	1A	283		101	98	96	2812		479L	24

OC0931

AIRPORT ELEVATION 187

ARP 404757.253N 0742455.049W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
OL ON ANEMOMETER	404756.00	0742500.23	1A	220		33	265	13	419
TREE	404757.93	0742503.20	1A	230		43	289	9	631
TREE	404803.76	0742451.58	1A	218		31	34	59	711
TREE	404750.75	0742444.01	1A	219		32	140	40	1074
TREE	404746.04	0742451.19	1A	199		12	178	15	1173
OL WINDSOCK	404749.44	0742507.04	1A	206		19	242	18	1215
TREE	404744.16	0742451.97	1A	240		53	182	47	1346
TREE	404751.38	0742438.98	1A	228		41	128	35	1371
TREE	404743.31	0742449.10	1A	233		46	174	56	1484
ANTENNA & APBN ON CTL TWR	404749.57	0742511.60	1A	260		73	251	29	1491
TREE	404743.62	0742444.52	1A	218		31	162	30	1600
TREE	404802.29	0742514.78	1A	258		71	301	28	1601
TREE	404743.04	0742441.61	1A	203		16	157	12	1771
TREE	404813.14	0742442.60	1A	251		64	43	40	1872
ANTENNA ON OL HANGAR	404753.44	0742519.99	1A	251		64	271	31	1957
TREE	404803.43	0742520.91	1A	227		40	300	20	2085
OL ON HANGAR	404741.91	0742516.35	1A	220		33	239	26	2257
TREE	404805.97	0742522.09	1A	272		85	305	53	2259
OL ON BLAST FENCE	404739.81	0742515.23	1A	189		2	234	14	2351
TREE	404809.27	0742428.49	1A	221		34	72	7	2377
FLOODLIGHT	404757.02	0742528.03	1A	223		36	282	22	2537
TREE	404820.42	0742441.07	1A	244		57	37	32	2579
TREE	404738.90	0742431.55	1A	235		48	148	41	2592
TREE	404737.15	0742432.43	1A	255		68	152	22	2677
TREE	404805.61	0742528.29	1A	213		26	301	12	2692
TREE	404758.80	0742530.20	1A	223		36	286	13	2708
TREE	404738.74	0742523.31	1A	253		66	242	9	2870
TREE	404806.65	0742530.73	1A	217		30	302	1	2905
TREE	404822.49	0742434.34	1A	236		49	44	50	3010
TREE	404728.60	0742507.69	1A	222		35	211	27	3058
TREE	404801.48	0742534.57	1A	224		37	290	55	3070
TREE	404800.56	0742535.37	1A	236		49	289	3	3119
TREE	404745.35	0742413.84	1A	265		78	123	42	3391

AIRPORT ELEVATION 187

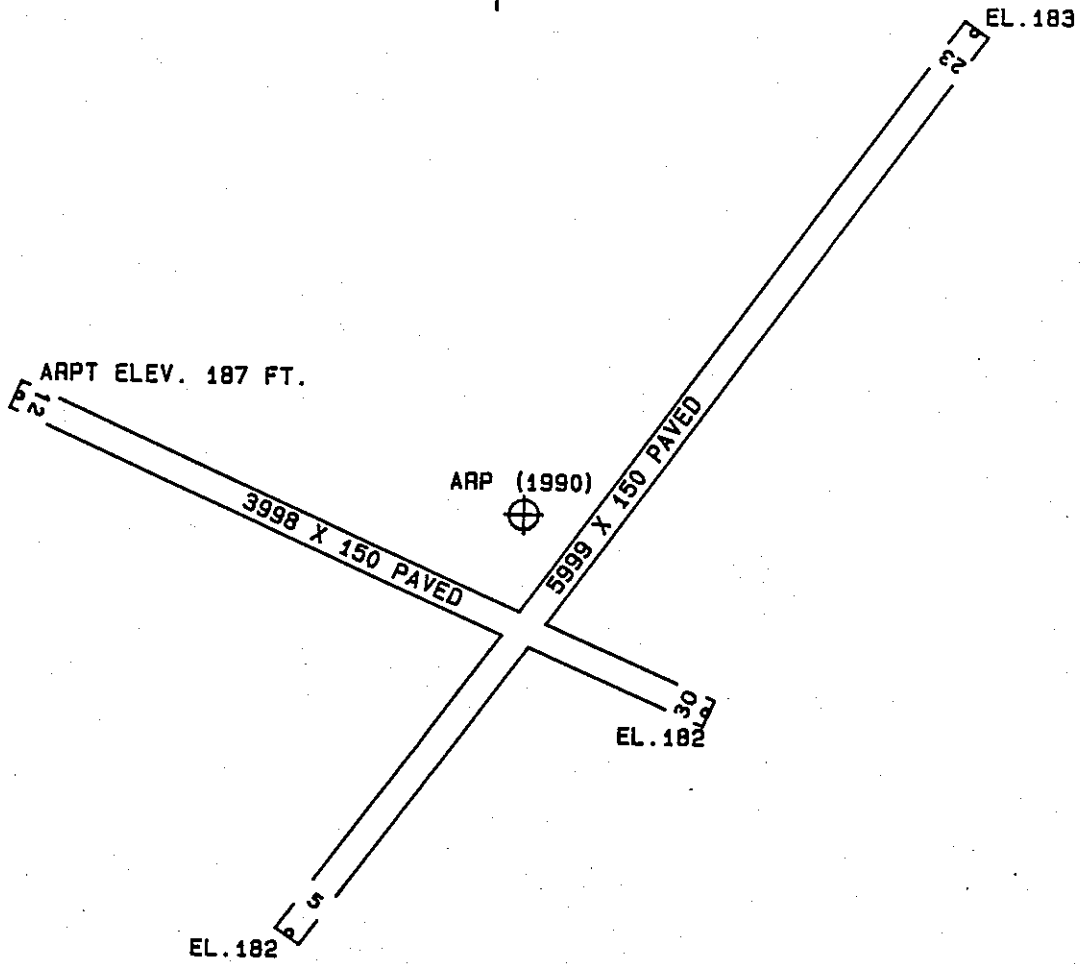
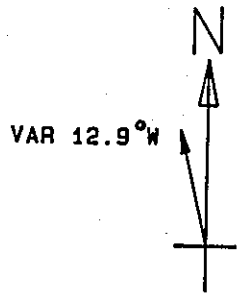
ARP 404757.253N 0742455.049W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	404826.78	0742431.05	1A	236		49	44 36	3513
TREE	404826.78	0742429.22	1A	201		14	46 31	3589
TREE	404817.39	0742536.69	1A	386		199	315 23	3796
TREE	404829.49	0742428.82	1A	260		73	44 37	3836
TREE	404801.29	0742546.71	1A	306		119	288 47	3994
TREE	404718.90	0742513.05	1A	257		70	212 32	4121
TREE	404815.54	0742543.75	1A	342		155	309 12	4177
TREE	404832.02	0742425.48	1A	250		63	45 46	4190
TREE	404805.77	0742556.57	1A	327		140	293 14	4810
TREE	404839.08	0742420.68	1A	247		60	44 53	4990
TREE	404826.72	0742549.49	1B	400		213	318 22	5140
TREE	404832.57	0742401.92	1A	257		70	61 43	5428
VENT ON BUILDING	404721.49	0742554.51	1B	351		164	244 33	5832
TREE	404836.03	0742357.13	1A	272		85	61 31	5936
SPIRE	404715.11	0742557.32	1B	408		221	241 13	6413
TREE	404836.91	0742604.44	1B	405		218	319 51	6678
FLAGPOLE	404726.05	0742625.54	1B	497		310	258 30	7643
TREE	404712.76	0742618.11	1A	511		324	247 44	7816
ANTENNA ON BUILDING	404840.53	0742326.90	1B	390		203	70 2	8070
TREE	404833.41	0742320.89	1B	378		191	76 5	8113
TREE	404809.61	0742639.92	1B	474		287	291 43	8162
TANK	404855.12	0742612.26	1B	427		240	327 31	8340
TREE	404742.69	0742645.94	1B	536		349	273 6	8655
LIGHTNING ROD ON STACK	404920.21	0742533.59	1B	424		237	353 28	8903
ANTENNA ON OL STANDPIPE	404700.95	0742323.18	1B	395		208	141 46	9078
OL ON TANK	404717.58	0742644.50	1B	531		344	257 25	9327
LIGHTNING ROD ON STACK	404651.14	0742627.36	1B	529		342	239 37	9756
CROSS	404646.22	0742624.33	1B	548		361	236 36	9942
TREE	404621.47	0742414.69	1B	363		176	175 8	10179
TREE	404934.76	0742412.37	1B	352		165	31 17	10400
TREE	404621.21	0742544.56	1B	403		216	214 18	10440
OL ON TANK	404935.70	0742409.29	1B	436		249	32 21	10566
TREE	404936.06	0742547.78	1B	365		178	350 50	10791

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OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	404950.60	0742444.67	1B	345		158	16 53	11499
ANTENNA ON OL RADIO MAST	404906.59	0742251.32	1A	443	221	256	66 29	11823
TREE	404609.78	0742559.25	1A	461		274	217 20	11945
TREE	404600.28	0742433.48	1B	391		204	184 55	11954
TREE	404748.88	0742731.69	2C	466		279	278 53	12077
OL ON WATER TANK	404605.83	0742558.47	1B	486		299	216 18	12287
TRANSMISSION TOWER	404958.51	0742433.83	1B	380		193	20 28	12380
TREE	404559.37	0742539.70	1B	441		254	208 58	12415
TREE	404659.81	0742719.58	2C	452		265	255 18	12546
TANK	404835.44	0742219.36	1B	340		153	85 0	12582
TREE	404558.36	0742555.24	2C	482		295	213 57	12893
TREE	404545.12	0742524.08	2C	432		245	202 23	13557
TREE	404903.86	0742729.36	2C	575		388	312 31	13648
TREE	405005.16	0742355.16	2C	380		193	32 29	13739
OL ON RADIO MAST	404845.56	0742742.33	2A	658	363	471	303 43	13762
CROSS ON SPIRE	404542.19	0742522.74	2C	422		235	201 46	13834
LIGHTNING ROD ON STACK	404538.25	0742525.45	2C	447		260	202 21	14261
CROSS	404529.04	0742509.63	2C	424		237	197 11	15041
OL ON RADIO MAST	404751.21	0742136.80	2A	684	488	497	105 11	15260
TREE	404529.02	0742541.37	2C	507		320	206 16	15419



TOUCHDOWN ZONE RUNWAY ELEVATION	
5	184
29	184
12	187
30	185

MORRISTOWN MUNICIPAL AIRPORT
 MORRISTOWN, NEW JERSEY
 (NOT TO SCALE)