

# OBSTRUCTION DATA SHEET

**ODS 868  
DILLANT - HOPKINS AIRPORT  
KEENE, NEW HAMPSHIRE**

**DIGITIZED FROM**

**OC 868  
SURVEYED 23 JUNE 1992  
7TH 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.

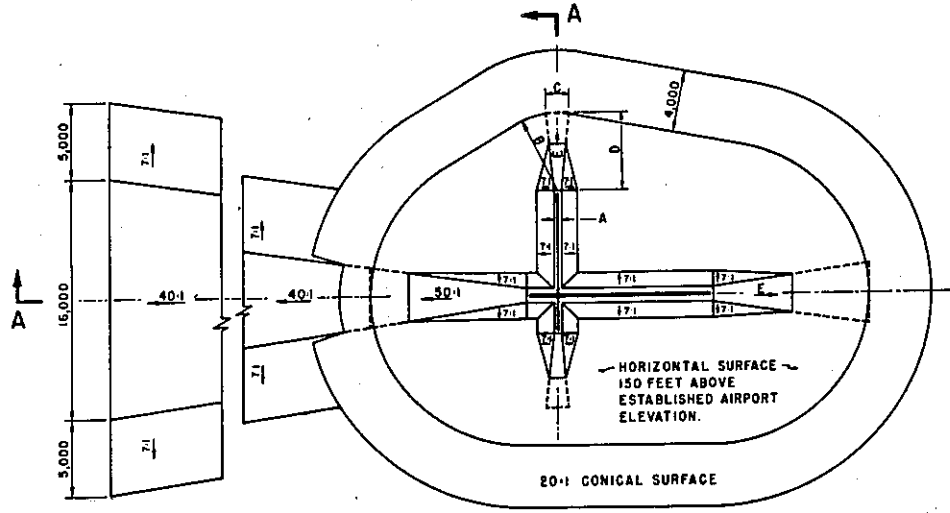
ODS information is arranged as follows:

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:

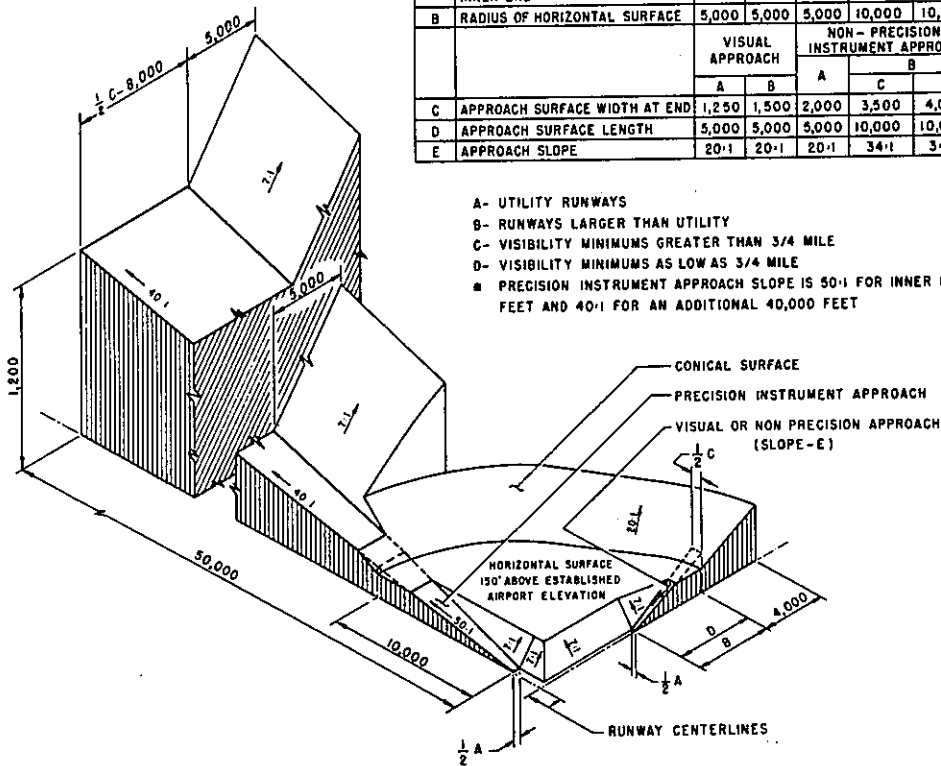
A(V) ..... Utility runway - visual approach only  
A(NP) ..... Utility runway - nonprecision instrument approach  
B(V) ..... Nonutility runway - visual approach only  
C ..... Nonutility runway - nonprecision instrument  
approach with visibility minimums greater than  
3/4 mile  
D ..... Nonutility 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		
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

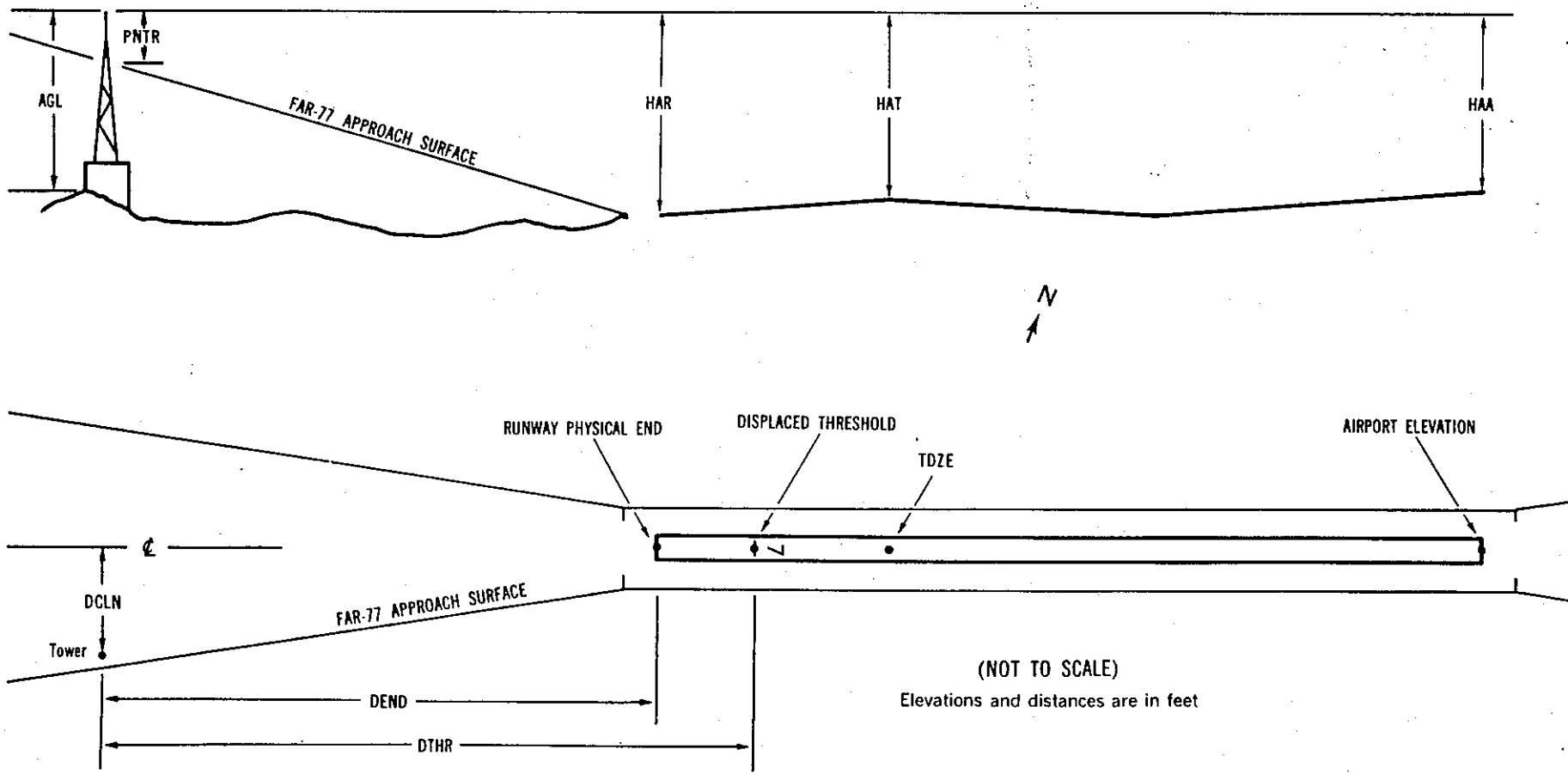
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X <sup>1</sup>	X <sup>2</sup>	XXXX/XXXX <sup>3</sup>	XXXXXX.XXX <sup>4</sup>	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	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 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 displaced 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 displaced 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 488

14 SUPLC 471/ 476 425420.572 -721639.395 1270511.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	425411.64	-721621.93	1A	483		12	7	-5	-1582		63L	9
BUSH	425411.66	-721628.84	1A	477		6	1	-11	-1171		246R	3
BUSH	425416.21	-721637.07	1A	478		7	2	-10	-404		248R	5
TREE	425420.62	-721645.38	1A	493		22	17	5	358		265R	17
TREE	425424.83	-721641.88	1A	492		21	16	4	407		233L	14
TREE	425422.34	-721649.13	1A	499		28	23	11	686		294R	13
ROAD (N)	425425.20	-721647.93	1A	492		21	16	4	789		9R	3
TREE	425429.15	-721648.01	1A	516		45	40	28	1035		306L	20
TREE	425426.64	-721659.29	1A	531		60	55	43	1552		403R	20
TREE	425430.72	-721656.45	1A	540		69	64	52	1632		55L	26
TREE	425429.13	-721700.68	1A	533		62	57	45	1786		264R	15
TREE	425434.10	-721657.60	1A	552		81	76	64	1907		276L	30
TREE	425432.55	-721701.58	1A	544		73	68	56	2048		28R	18

32	SUPLC	482/	425356.740	-721556.516	3070541.	478/	478	425400.270	-721602.867				
OBJECT			LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN PNTR
BUSH			425416.21	-721637.07	1A	478		-4	0	-10	-3597	-3004	248L 5
BUSH			425411.66	-721628.84	1A	477		-5	-1	-11	-2830	-2237	246L 3
BUSH			425411.64	-721621.93	1A	483		1	5	-5	-2419	-1826	63R 9
ROAD (N)			425357.35	-721552.03	1A	494		12	16	6	229	822	251R 11
TREE			425352.12	-721551.09	1A	518		36	40	30	604	1197	129L 24
TREE			425352.94	-721548.14	1A	518		36	40	30	729	1322	70R 21
TREE			425349.90	-721550.94	1A	530		48	52	42	749	1342	302L 32
OL ON POLE			425349.75	-721545.45	1A	561		79	83	73	1084	1676	68L 53
OL ON POLE			425350.40	-721543.02	1A	566		84	88	78	1188	1781	94R 55
TREE			425347.95	-721543.22	1A	577		95	99	89	1326	1919	113L 62
TREE			425349.48	-721539.29	1A	586		104	108	98	1466	2059	187R 67
TREE			425349.30	-721534.76	1A	603		121	125	115	1746	2339	376R 76
TREE			425338.66	-721514.62	1A	688		206	210	200	3592	4184	421R 106
TREE			425339.61	-721511.81	1A	691		209	213	203	3700	4293	624R 106
TREE			425334.37	-721506.50	1A	722		240	244	234	4335	4928	439R 119
TREE			425328.04	-721508.36	1A	756		274	278	268	4612	5204	155L 144
OL ON POLE			425330.79	-721504.62	1A	729		247	251	241	4666	5259	235R 116
OL ON POLE			425324.84	-721504.89	1A	774		292	296	286	5013	5606	258L 151
TREE			425320.13	-721500.94	1A	827		345	349	339	5536	6129	461L 188
TREE			425305.98	-721445.13	1B	804		322	326	316	7338	7931	893L 112
TREE			425308.12	-721405.07	1B	934		452	456	446	9586	10178	1079R 176



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AIRPORT ELEVATION 488

2 PIR 488/ 488 425314.361 -721615.133 031359.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	425414.92	-721603.80	1A	498		10	10	10	-6169		496R	17
OL ON LTD WSK	425412.71	-721615.71	1A	506		18	18	18	-5896		376L	27
BUSH	425358.84	-721606.49	1A	481		-7	-7	-7	-4532		388R	10
BUSH	425357.17	-721617.26	1A	475		-13	-13	-13	-4318		403L	5
BUSH	425347.73	-721616.91	1A	477		-11	-11	-11	-3365		323L	7
BUSH	425343.35	-721616.13	1A	479		-9	-9	-9	-2926		240L	8
BUSH	425336.88	-721619.86	1A	487		-1	-1	-1	-2256		480L	14
BUSH	425330.18	-721619.05	1A	480		-8	-8	-8	-1582		381L	4
OL ON LTD WINDSOCK	425324.40	-721618.37	1A	487		-1	-1	-1	-1001		298L	7
OL ON GS	425323.66	-721610.24	1A	518		30	30	30	-960		310R	38
TREE	425314.13	-721620.70	1A	497		9	9	9	46		412L	10
POLE	425302.50	-721608.15	1A	529		41	41	41	1170		587R	22
TREE	425300.30	-721608.65	1A	563		75	75	75	1394		562R	51
OL ON POLE	425254.75	-721611.67	1A	563		75	75	75	1968		369R	40
TREE	425253.24	-721606.75	1A	617		129	129	129	2100		744R	91
OL ON POLE	425250.84	-721612.31	1A	594		106	106	106	2365		344R	63
TREE	425249.60	-721627.39	1A	583		95	95	95	2554		769L	48
TREE	425247.95	-721610.64	1A	607		119	119	119	2651		485R	70
TREE	425248.48	-721625.68	1A	585		97	97	97	2661		636L	48
TREE	425244.35	-721607.44	1A	638		150	150	150	3001		743R	94
TREE	425240.39	-721616.92	1A	580		92	92	92	3442		61R	27
TREE	425239.22	-721608.20	1A	637		149	149	149	3523		716R	83
MM	425238.67	-721616.12	1A	561		73	73	73	3612		131R	5
TREE	424819.07	-721725.42	1A	1403		915	915	915	30142		3545L	217
TREE	424737.44	-721727.04	1A	1417		929	929	929	34357		3429L	125
TREE	424735.46	-721732.76	1A	1425		937	937	937	34581		3843L	128

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AIRPORT ELEVATION 488

ZO SUPLC 482/ 482 425415.509 -721610.434 1831402.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	425314.13	-721620.70	1A	497		15	15	9	-6247		412R	10
OL ON GS	425323.66	-721610.24	1A	518		36	36	30	-5240		310L	38
OL ON LTD WINDSOCK	425324.40	-721618.37	1A	487		5	5	-1	-5200		298R	7
BUSH	425330.18	-721619.05	1A	480		-2	-2	-8	-4618		381R	4
BUSH	425336.88	-721619.86	1A	487		5	5	-1	-3944		480R	14
BUSH	425343.35	-721616.13	1A	479		-3	-3	-9	-3275		240R	8
BUSH	425347.73	-721616.91	1A	477		-5	-5	-11	-2836		323R	7
BUSH	425357.17	-721617.26	1A	475		-7	-7	-13	-1882		403R	5
BUSH	425358.84	-721606.49	1A	481		-1	-1	-7	-1668		388L	10
OL ON LTD WSK	425412.71	-721615.71	1A	506		24	24	18	-305		376R	27
BUSH	425414.92	-721603.80	1A	498		16	16	10	-32		496L	17
TREE	425418.68	-721603.25	1A	563		81	81	75	350		516L	76
OL ON LOC	425422.46	-721609.90	1A	491		9	9	3	704		OR	-6
TREE	425423.63	-721603.27	1A	566		84	84	78	851		486L	65
OL ON POLE	425425.73	-721603.10	1A	545		63	63	57	1064		487L	37
TREE	425426.68	-721617.64	1A	559		77	77	71	1098		599R	50
TREE	425431.37	-721611.60	1A	551		69	69	63	1598		177R	28
TREE	425434.12	-721605.63	1A	558		76	76	70	1902		251L	26
TREE	425436.88	-721612.32	1A	589		107	107	101	2153		262R	49
TREE	425437.72	-721608.54	1A	589		107	107	101	2253		14L	46
TREE	425437.97	-721605.83	1A	582		100	100	94	2290		214L	38
TREE	425440.67	-721616.13	1A	594		112	112	106	2520		567R	44
TREE	425439.95	-721558.36	1A	587		105	105	99	2521		758L	37

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AIRPORT ELEVATION 488

ARP 425354.238 -721614.812

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
HANGAR	425352.68	-721555.48	1A	495		7	11140	1448
TREE	425339.53	-721621.81	1A	508		20	21441	1577
BUILDING	425359.64	-721554.75	1A	502		14	8517	1590
TREE	425341.70	-721628.30	1A	564		76	23345	1618
ROD ON OL POLE	425340.37	-721603.49	1A	534		46	16424	1638
TREE	425408.11	-721626.40	1A	514		26	34350	1648
OL ON POLE	425358.32	-721552.71	1A	534		46	9117	1696
TREE	425337.87	-721602.24	1A	550		62	16557	1903
TREE	425336.10	-721622.78	1A	514		26	21318	1930
TREE	425414.52	-721601.74	1A	532		44	4045	2272
TREE	425333.45	-721602.43	1A	556		68	17144	2297
TREE	425413.07	-721636.53	1A	520		32	33506	2500
ROD ON OL POLE	425330.26	-721604.00	1A	539		51	17703	2558
TREE	425331.65	-721558.09	1A	596		108	16649	2603
TREE	425418.61	-721602.60	1A	578		90	3537	2630
TREE	425327.91	-721621.86	1A	494		6	20632	2717
TREE	425352.34	-721536.31	1A	588		100	10914	2873
TREE	425421.11	-721601.39	1A	586		98	3534	2898
BUSH	425420.00	-721631.85	1A	484		-4	34928	2900
OL ON POLE	425326.65	-721604.30	1A	559		71	17944	2900
ROD ON OL APBN	425422.57	-721626.75	1A	537		49	35811	3003
TREE	425417.67	-721641.31	1A	489		1	33539	3085
TREE	425324.04	-721604.54	1A	587		99	18121	3151
TREE	425424.09	-721630.12	1A	538		50	35444	3230
TREE	425428.17	-721619.40	1A	584		96	943	3452
TREE	425426.37	-721633.46	1A	564		76	35217	3537
TREE	425424.41	-721639.04	1A	493		5	34451	3547
TREE	425319.85	-721604.77	1A	603		115	18316	3561
BUSH	425317.26	-721621.99	1A	499		11	20331	3781
TREE	425431.65	-721619.31	1A	587		99	1020	3802
TREE	425430.68	-721600.17	1A	567		79	3151	3847

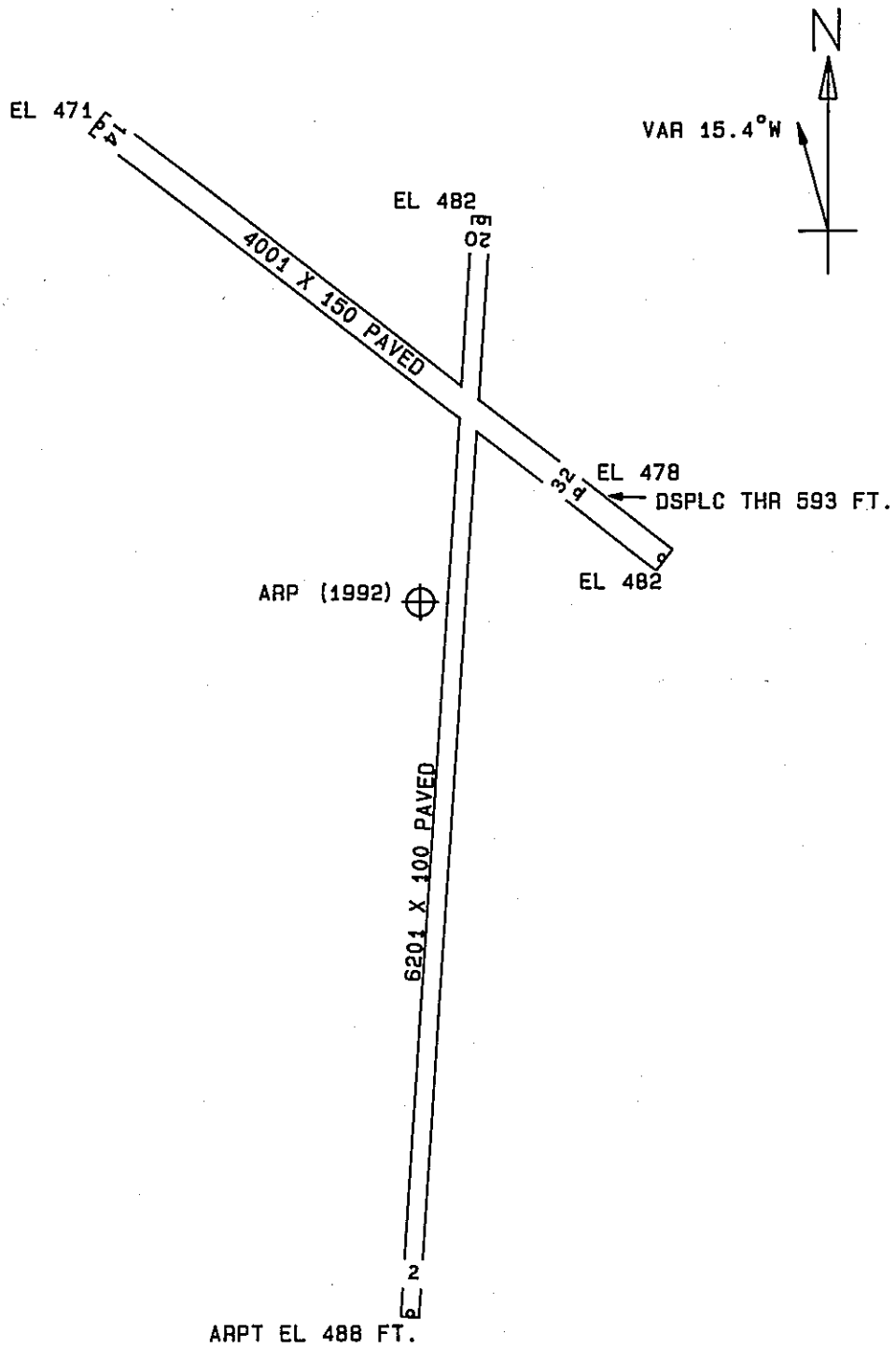
AIRPORT ELEVATION 488

ARP 425354.238 -721614.812

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON POLE	425315.13	-721607.21	1A	562		74	18716	4000
TREE	425314.88	-721626.01	1A	539		51	20712	4070
TREE	425430.02	-721642.17	1A	560		72	34603	4156
TREE	425313.44	-721604.01	1A	564		76	18422	4208
TREE	425312.11	-721625.77	1A	545		57	20613	4343
BUSH	425310.16	-721607.31	1A	503		15	18816	4497
TREE	425308.19	-721601.66	1A	615		127	18332	4764
OL ON POLE	425337.80	-721714.84	1A	874		386	26458	4768
TREE	425439.78	-721557.11	1A	590		102	3120	4795
TREE	425306.31	-721625.06	1A	542		54	20420	4912
TREE	425427.68	-721705.86	1A	559		71	32706	5089
POLE	425303.89	-721607.25	1A	528		40	18905	5128
TREE	425341.51	-721505.03	1A	714		226	11919	5352
TREE	425346.77	-721726.26	1A	834		346	27718	5372
TREE	425310.35	-721531.66	1A	832		344	15931	5483
TREE	425300.89	-721558.93	1A	651		163	18303	5529
TREE	425357.21	-721730.70	1B	750		262	28827	5656
TREE *	425429.13	-721513.71	1B	650		162	6733	5759
TREE	425256.88	-721602.39	1A	635		147	18621	5880
TREE	425312.73	-721519.51	1B	867		379	15058	5883
ROD ON OL POLE	425406.84	-721453.10	1A	1061		573	9332	6214
TREE	425300.12	-721533.04	1B	800		312	16549	6300
TREE	425249.13	-721559.36	1A	683		195	18529	6691
TREE	425432.07	-721445.76	1B	874		386	7522	7655
TREE	425257.07	-721505.04	1B	892		404	15329	7776
TREE	425327.07	-721413.69	1A	1050		562	12221	9426
OL ON POLE	425325.53	-721412.51	1B	1044		556	12305	9557
TREE	425239.48	-721735.75	1B	735		247	23356	9674
TREE	425220.39	-721533.33	1B	883		395	17723	9991
TREE	425527.37	-721529.06	1B	834		346	3514	10025
TREE	425512.35	-721449.16	1B	785		297	5415	10157

AIRPORT ELEVATION 488

ARP	425354.238	-721614.812							
OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG	BEARING	DISTANCE
TREE	425427.47	-721405.14	1B	1059		571		8610	10221
ROD ON OL POLE	425416.01	-721358.29	1B	1171		683		9308	10398
ANT ON OL RADIO TOWER	425540.46	-721521.46	1B	1180		692		3539	11463
TREE	425212.06	-721500.33	1B	950		462		16712	11737
TREE	425437.96	-721346.02	2C	1004		516		8335	11926
TREE	425210.65	-721731.82	1A	1015		527		22404	11952
TREE	425426.12	-721850.85	2C	918		430		30056	12054
POWER POLE	425354.25	-721328.66	2C	1130		642		10522	12367
TREE	425335.55	-721905.67	2C	806		318		27657	12858
TREE	425359.47	-721917.29	2C	1143		655		28739	13593
TREE	425405.61	-721307.77	2C	1075		587		10039	13969
TREE	425453.61	-721906.17	2C	1122		634		31039	14099
OL ON POLE	425316.63	-721309.45	2C	1273		785		12048	14314
TREE	425610.80	-721519.13	2C	935		447		3204	14433
POWER POLE	425320.05	-721305.01	2C	1272		784		11908	14547
TREE	425527.19	-721343.92	2C	1101		613		6525	14651
OL ON POLE	425526.98	-721339.89	2C	1096		608		6613	14868
TREE	425450.70	-721307.72	2C	898		410		8303	15052
TREE	425625.31	-721539.07	2C	825		337		2515	15524



TOUCHDOWN ZONE RUNWAY ELEVATION	
14	476
32	478
2	488
20	482

DILLANT - HOPKINS AIRPORT  
 KEENE, NEW HAMPSHIRE  
 (NOT TO SCALE)