Check Note

OBSTRUCTION DATA SHEET

ODS 329
PORTLAND INTERNATIONAL JETPORT
PORTLAND, MAINE

DIGITIZED FROM

OC 329
SURVEYED JULY 1991
9TH EDITION

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

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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).

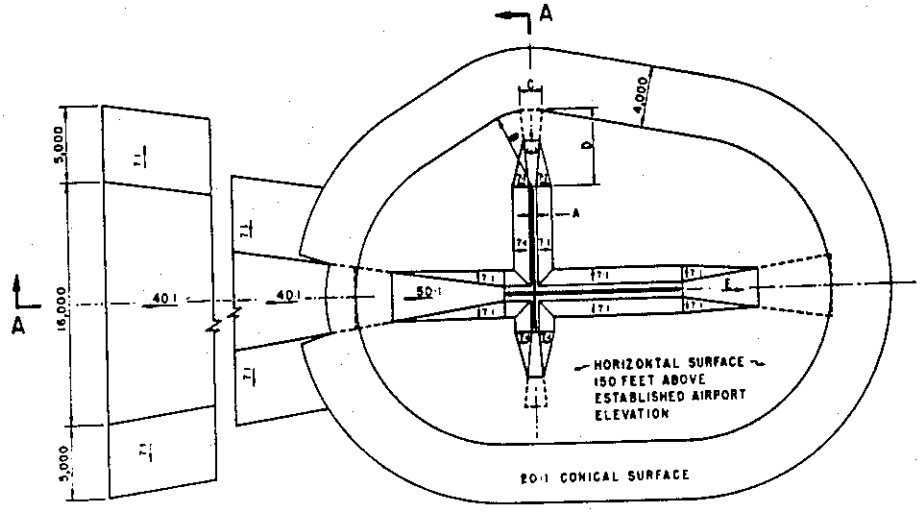
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

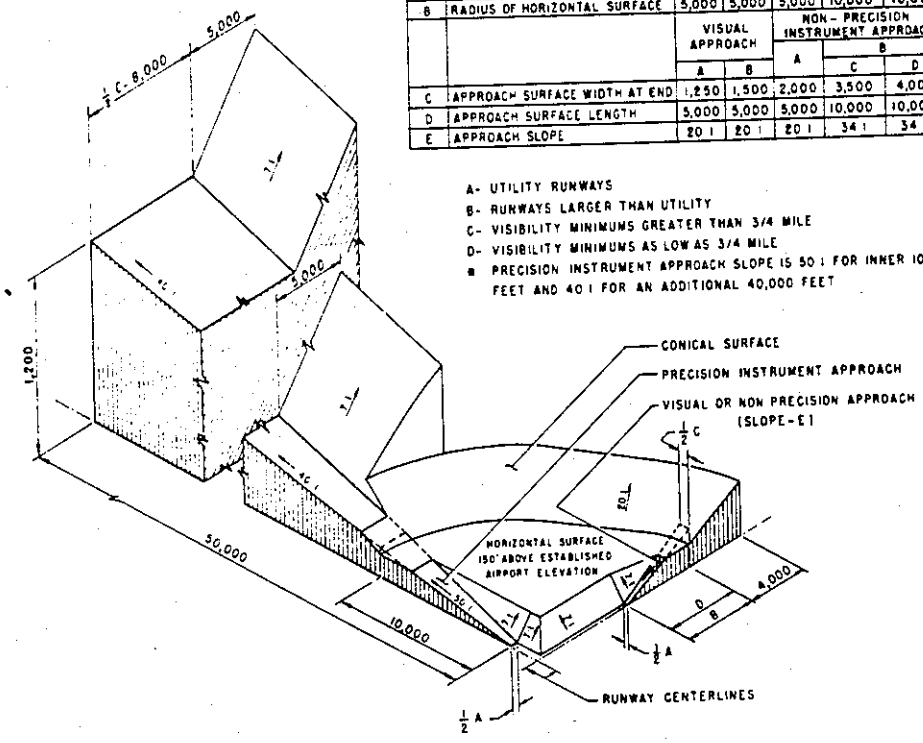
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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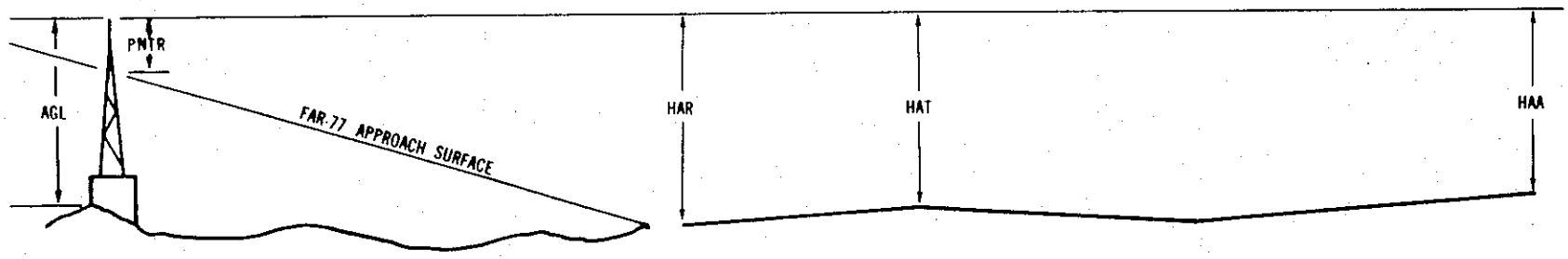

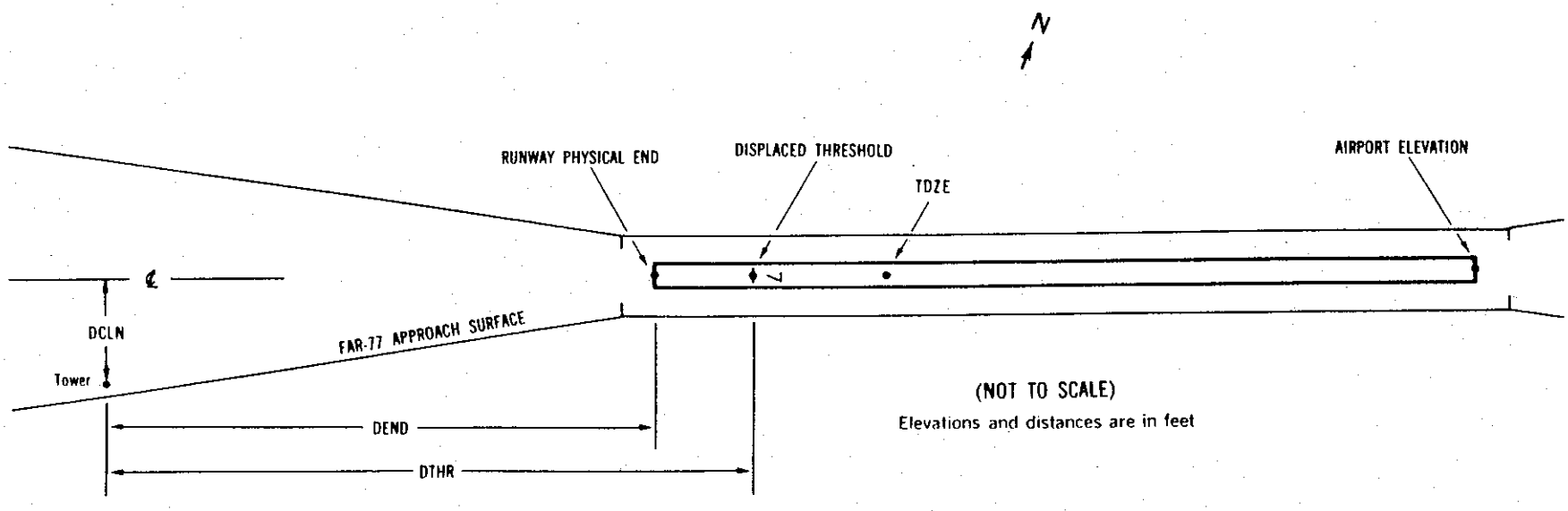

EXPLANATION OF FOOTNOTES

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 ±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).

OC0329

AIRPORT ELEVATION 74

11 PIR 74/74 433844.440N 0701930.295W 2751746

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	433833.03	0701756.72	1A	70		-4	-4	-4	-6958		514R	27
ROD ON OL TRANSMISSOMETER	433833.90	0701802.12	1A	61		-13	-13	-13	-6554		464R	17
ROD ON OL TRANSMISSOMETER	433834.75	0701805.36	1A	62		-12	-12	-12	-6309		400R	17
WINDSOCK	433836.62	0701808.59	1A	50		-24	-24	-24	-6055		233R	4
OL ON GLIDE SLOPE	433841.88	0701809.69	1A	86		12	12	12	-5926		290L	39
POLE	433836.51	0701839.26	1A	66		-8	-8	-8	-3811		452R	9
GROUND	433844.98	0701844.48	1A	61		-13	-13	-13	-3349		366L	2
WINDVANE ON POLE	433844.00	0701846.20	1A	72		-2	-2	-2	-3233		255L	12
GROUND	433837.57	0701849.81	1A	62		-12	-12	-12	-3029		418R	2
OL ON GLIDE SLOPE	433839.54	0701916.26	1A	106		32	32	32	-1074		399R	37
WINDSOCK	433845.91	0701919.75	1A	74		0	0	0	-758		220L	3
OL ON LOCALIZER	433844.90	0701937.07	1A	76		2	2	2	500		0L	-4
OL ON DME	433847.50	0701936.94	1A	83		9	9	9	515		263L	3
ROAD (N)	433850.72	0701938.75	1A	85		11	11	11	678		576L	1
TREE	433850.37	0701941.19	1A	94		20	20	20	853		524L	7
LIGHT STANDARD	433839.64	0701949.21	1A	90		16	16	16	1340		612R	-7
TREE	433850.81	0701953.08	1A	124		50	50	50	1727		488L	19
TREE	433856.66	0702012.96	1A	165		91	91	91	3238		943L	30
TREE	433856.57	0702041.60	1A	193		119	119	119	5334		740L	16
TREE	433852.59	0702043.16	1A	184		110	110	110	5411		328L	6
TREE	433838.60	0702047.61	1A	187		113	113	113	5606		1113R	5

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AIRPORT ELEVATION 74

29 PIR 43/57 433838.231N 0701758.212W 0951849

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	433845.91	0701919.75	1A	74		31	17	0	-6042		220R	3
OL ON GLIDE SLOPE	433839.54	0701916.26	1A	106		63	49	32	-5727		399L	37
GROUND	433837.57	0701849.81	1A	62		19	5	-12	-3771		418L	2
WINDVANE ON POLE	433844.00	0701846.20	1A	72		29	15	-2	-3567		255R	12
GROUND	433844.98	0701844.48	1A	61		18	4	-13	-3451		366R	2
POLE	433836.51	0701839.26	1A	66		23	9	-8	-2989		452L	9
OL ON GLIDE SLOPE	433841.88	0701809.69	1A	86		43	29	12	-875		290R	39
WINDSOCK	433836.62	0701808.59	1A	50		7	-7	-24	-745		233L	4
ROD ON OL TRANSMISSOMETER	433834.75	0701805.36	1A	62		19	5	-12	-491		400L	17
ROD ON OL TRANSMISSOMETER	433833.90	0701802.12	1A	61		18	4	-13	-246		464L	17
TREE	433833.03	0701756.72	1A	70		27	13	-4	158		514L	27
BUSH	433833.84	0701755.06	1A	49		6	-8	-25	272		422L	5
OL LOCALIZER	433837.80	0701751.77	1A	49		6	-8	-25	475		0R	1
ROD ON PIPE	433834.63	0701752.09	1A	56		13	-1	-18	482		321L	7
TREE	433842.96	0701749.14	1A	48		5	-9	-26	620		539R	-3
TREE	433831.19	0701744.50	1A	74		31	17	0	1070		616L	14
TREE	433832.16	0701743.71	1A	62		19	5	-12	1119		513L	1
TREE	433839.78	0701631.84	1A	173		130	116	99	6310		745R	8
TREE	433845.93	0701616.19	1A	232		189	175	158	7397		1472R	45
TREE	433844.64	0701615.23	1A	216		173	159	142	7480		1349R	27
ANTENNA ON BUILDING	433845.56	0701602.09	1A	225		182	168	151	8433		1532R	17

NOTE: Vessels may penetrate this approach surface.
Refer to local authorities for maximum vessel height.

OC0329

AIRPORT ELEVATION 74

18 C 45/51 433915.817N 0701828.185W 3431256

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
RADAR REFLECTOR	433826.65	0701807.71	1A	50		5	-1	-24	-5201		4L	3
WINDSOCK	433836.62	0701808.59	1A	50		5	-1	-24	-4215		234L	2
GROUND	433907.82	0701828.54	1A	51		6	0	-23	-768		259R	2
WINDSOCK	433910.80	0701822.92	1A	52		7	1	-22	-598		224L	4
TREE	433918.40	0701831.93	1A	53		8	2	-21	330		188R	4
TREE	433919.86	0701832.28	1A	67		22	16	-7	479		170R	14
TREE	433922.13	0701834.77	1A	77		32	26	3	752		279R	16
TREE	433932.17	0701829.95	1A	95		50	44	21	1623		354L	8

36 C 47/50 433828.526N 07018 8.545W 1631310

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WINDSOCK	433910.80	0701822.92	1A	52		5	2	-22	-4403		224R	4
GROUND	433907.82	0701828.54	1A	51		4	1	-23	-4234		259L	2
WINDSOCK	433836.62	0701808.59	1A	50		3	0	-24	-786		234R	2
RADAR REFLECTOR	433826.65	0701807.71	1A	50		3	0	-24	200		4R	3
TREE	433824.52	0701809.63	1A	52		5	2	-22	365		193L	1
TREE	433820.90	0701809.94	1A	74		27	24	0	710		321L	12
GROUND	433819.28	0701809.40	1A	69		22	19	-5	878		331L	2
TREE	433818.07	0701758.45	1A	80		33	30	6	1228		405R	3
TREE	433814.44	0701808.48	1A	91		44	41	17	1367		407L	10
TREE	433815.83	0701801.98	1A	82		35	32	8	1370		91R	1
TREE	433806.01	0701802.76	1A	116		69	66	42	2306		251L	7

OC0329

AIRPORT ELEVATION 74

ARP 433845.929N 0701833.281W

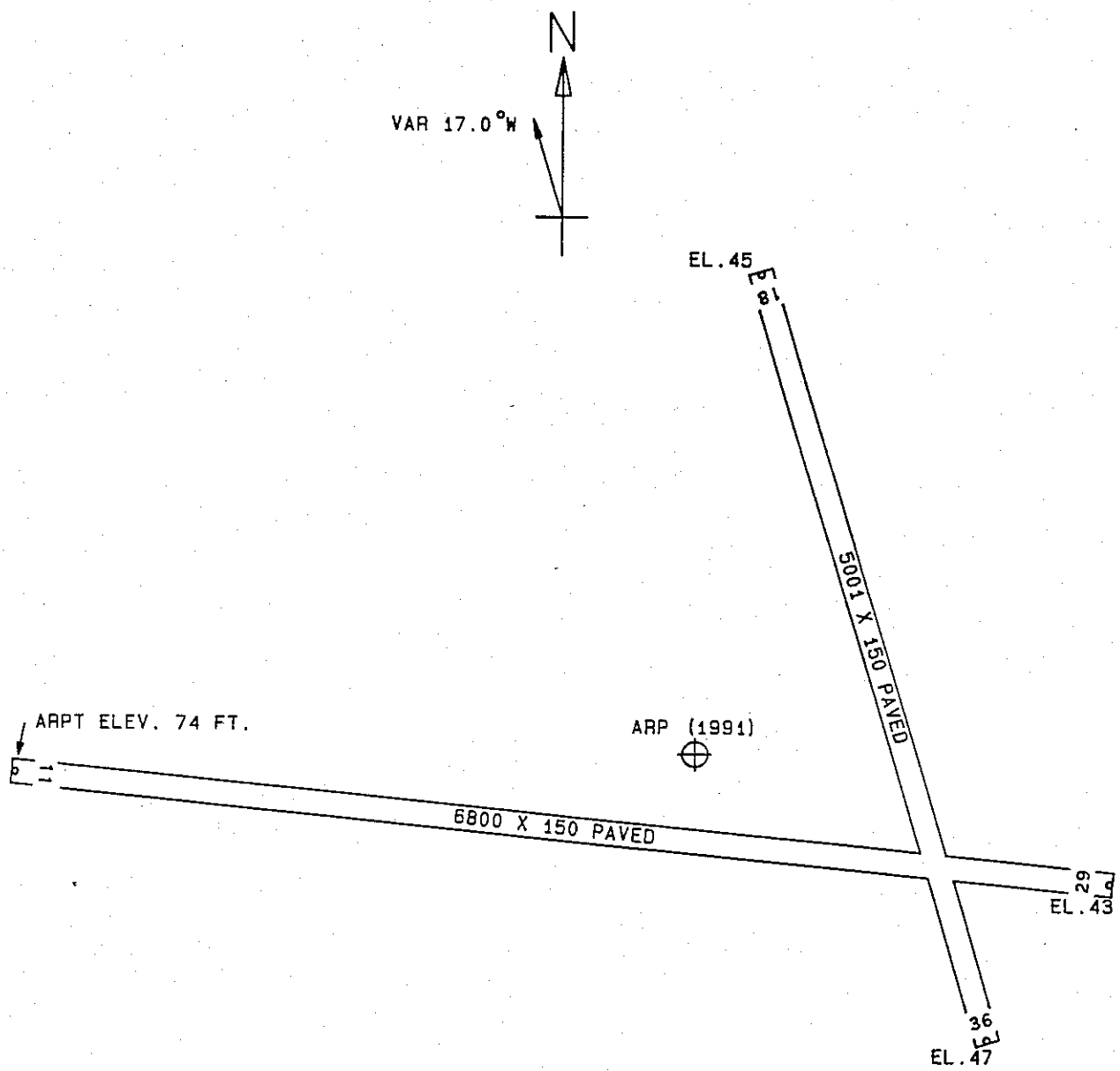
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON OL ATCT	433850.18	0701830.33	1A	156		82	43 46	482
OL WINDSOCK	433849.86	0701824.35	1A	79		5	75 45	768
OL ANEMOMETER	433854.42	0701823.66	1A	86		12	56 27	1113
LIGHT STANDARD	433834.85	0701836.80	1A	84		10	210 0	1151
TREE	433834.64	0701840.14	1A	95		21	220 49	1249
FLOODLIGHT	433850.14	0701849.28	1A	116		42	306 55	1251
FLOODLIGHT	433850.02	0701854.99	1A	116		42	301 33	1649
TREE	433834.67	0701850.00	1A	107		33	244 9	1677
TREE	433835.39	0701857.37	1A	110		36	255 57	2068
TREE	433835.72	0701906.28	1A	104		30	263 56	2637
TREE	433911.98	0701819.91	1A	82		8	37 26	2815
TREE	433914.83	0701834.60	1A	101		27	15 6	2928
TREE	433851.58	0701912.60	1A	135		61	298 12	2947
TREE	433915.29	0701832.98	1A	68		-6	17 26	2973
ANTENNA ON ASR	433913.95	0701818.84	1A	108		34	37 31	3029
ANTENNA ON OL RADAR DOME	433851.47	0701752.50	1A	128		54	96 24	3051
TREE	433831.36	0701756.20	1A	91		17	135 24	3100
TREE	433917.05	0701835.96	1A	99		25	13 25	3158
OL AIRPORT BEACON	433818.22	0701812.12	1A	135		61	167 59	3208
ANTENNA ON RTR TOWER	433817.45	0701812.49	1A	151		77	169 4	3264
TREE	433918.51	0701834.34	1A	78		4	15 39	3300
TREE	433830.21	0701745.25	1A	78		4	131 15	3874
TREE	433926.50	0701841.24	1A	111		37	8 53	4150
TREE	433851.27	0701937.22	1A	106		32	293 34	4732
TREE	433933.15	0701826.85	1A	116		42	22 39	4804
TREE	433854.58	0701953.36	1A	123		49	295 28	5953
MICROWAVE ANTENNA	433901.55	0702008.63	1A	197		123	299 44	7187
TREE	433857.65	0702012.65	1A	173		99	296 14	7402
OL STACK	433920.20	0702004.31	1A	256	211	182	314 25	7539
ANTENNA ON BUILDING	433957.51	0701730.45	1B	218		144	49 30	8594
TREE	433849.86	0701634.25	1A	245		171	104 23	8762
CUPOLA ON HOUSE	433847.34	0701633.94	1A	224		150	106 3	8777
TREE	433852.83	0701634.22	1B	230		156	102 26	8782

OC0329 File Continued from Previous Page

AIRPORT ELEVATION 74

ARP 433845.929N 0701833.281W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON BUILDING	433822.43	0702028.92	1B	217		143	271 23	8830
TREE	433847.30	0701631.00	1A	231		157	106 6	8992
BUILDING	433858.92	0701632.04	1B	220		146	98 36	9011
ANTENNA ON OL BUILDING	433912.11	0701634.19	1B	311		237	90 9	9148
TREE	433834.93	0702036.98	1A	199		125	280 2	9164
TREE	433822.55	0702046.49	1B	230		156	273 26	10078
ROD ON OL RADIO TOWER	433947.83	0701616.78	1A	321	311	247	75 0	11832
OL RADIO TOWER	433917.01	0701551.09	1A	310	203	236	92 12	12333
ANT ON OL MCWV T ON BLDG	433921.18	0701551.42	2C	280		206	90 17	12424
RADIO MAST	433755.86	0702109.46	1B	234		160	263 12	12554
TREE	433752.94	0702121.08	1B	229		155	263 31	13456
OL RADIO TOWER	434123.29	0701901.70	2A	427	358	353	9 32	16070
OL RADIO TOWER	434123.08	0701907.66	2A	427	358	353	7 59	16111



TOUCHDOWN ZONE RUNWAY	ELEVATION
11	74
29	57
18	51
36	50

PORTLAND INTERNATIONAL JETPORT

PORTLAND, MAINE

(NOT TO SCALE)