OBSTRUCTION DATA SHEET

ODS 474
TRI - CITIES AIRPORT
PASCO, WASHINGTON

DIGITIZED FROM

OC 474
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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).

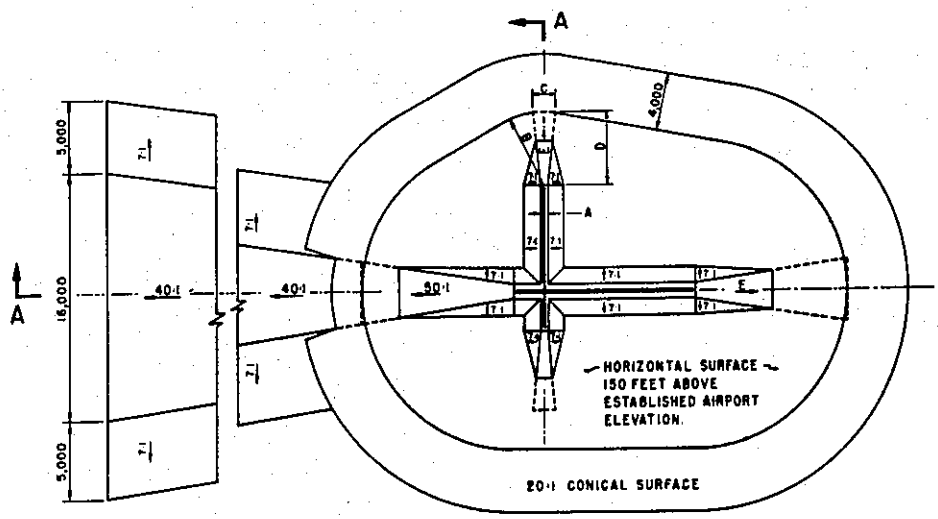
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

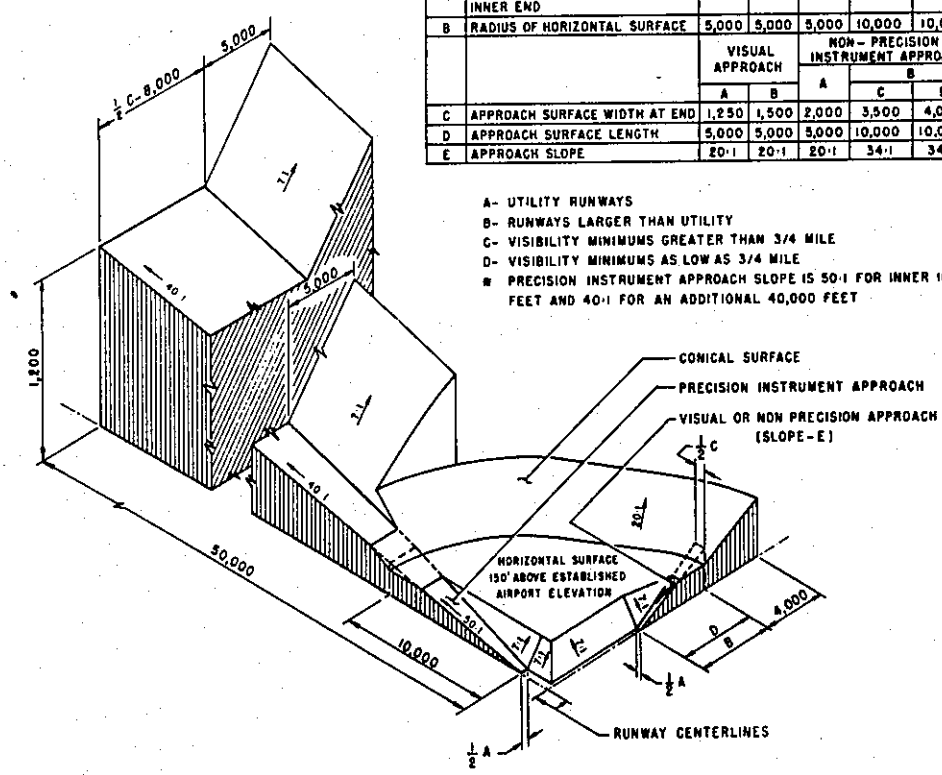
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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	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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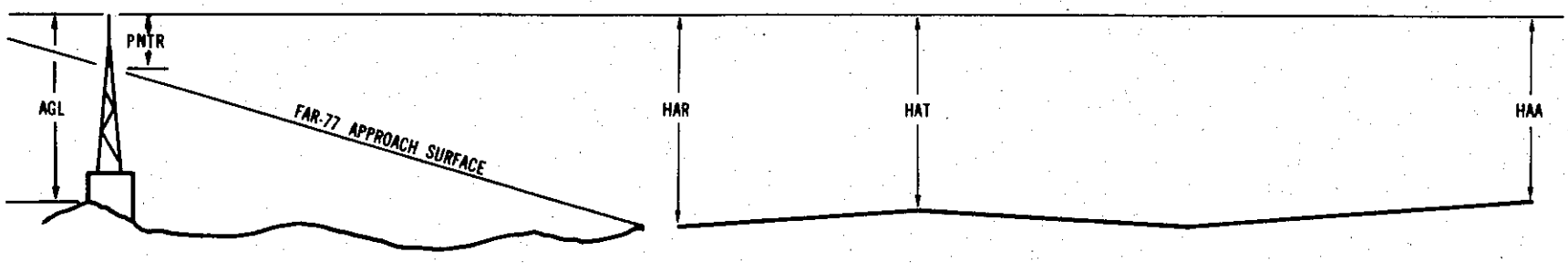
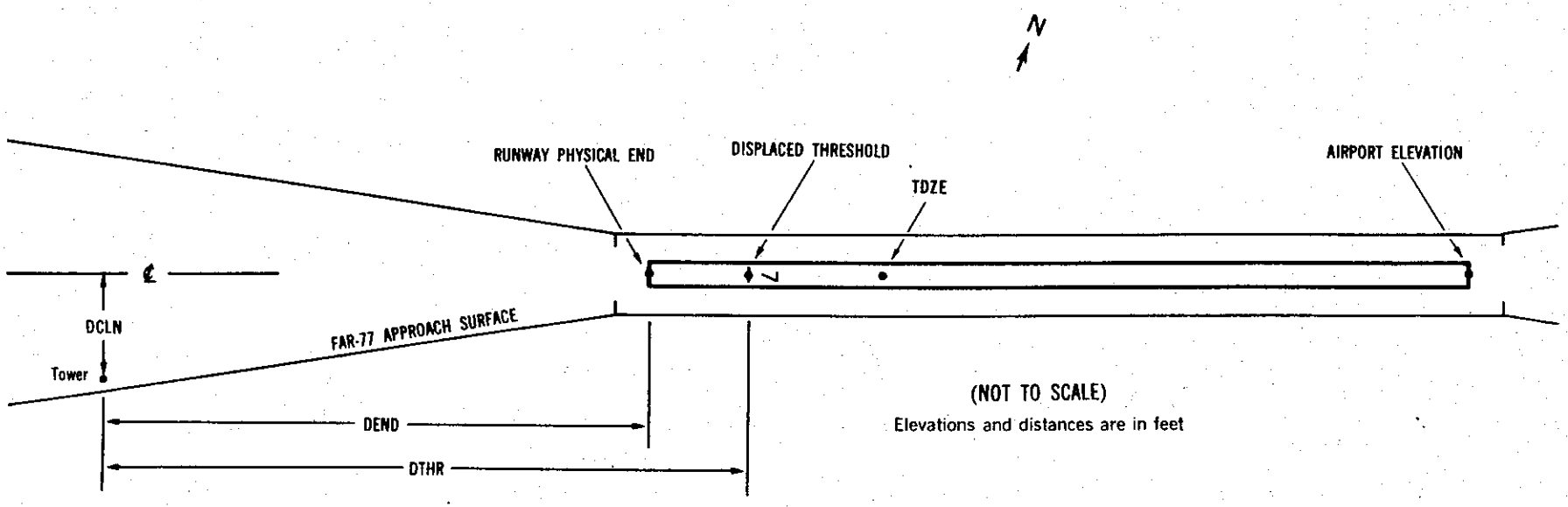




(NOT TO SCALE)

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).

OC0474

AIRPORT ELEVATION 407

3L SUPLC 406/407 461521.971N 1190756.522W 2254340

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	461606.83	1190658.34	1A	443		37	36	36	-6099		400L	43
SIGN	461538.63	1190734.49	1A	408		2	1	1	-2287		128L	3
SIGN	461525.34	1190757.67	1A	410		4	3	3	-180		300L	4
SIGN	461519.80	1190755.35	1A	407		1	0	0	95		215R	1
OL ON LOCALIZER	461517.83	1190802.65	1A	415		9	8	8	601		0L	-3
ANTENNA ON BUILDING	461515.91	1190800.16	1A	416		10	9	9	612		261R	-2
LIGHT POLE	461508.79	1190809.32	1A	433		27	26	26	1576		328R	-13
LIGHT POLE	461509.39	1190812.06	1A	433		27	26	26	1671		150R	-16
TREE	461458.83	1190815.20	1A	467		61	60	60	2577		763R	-9

21R PIR 397/ 461615.023N 1190638.044W 0454437 398/400 461610.948N 1190644.073W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	461519.80	1190755.35	1A	407		10	7	0	-7794	-7203	215L	1
SIGN	461525.34	1190757.67	1A	410		13	10	3	-7519	-6928	300R	4
SIGN	461538.63	1190734.49	1A	408		11	8	1	-5413	-4821	128R	3
OL ON GLIDE SLOPE	461606.83	1190658.34	1A	443		46	43	36	-1600	-1009	400R	43
GROUND	461614.65	1190632.12	1A	401		4	1	-6	271	863	318L	3
ANTENNA ON BUILDING	461620.09	1190622.19	1A	422		25	22	15	1155	1747	410L	6
GROUND	461618.85	1190619.88	1A	423		26	23	16	1185	1776	613L	6
FENCE POST	461623.79	1190625.33	1A	409		12	9	2	1259	1851	13R	-9
POLE	461624.86	1190614.27	1A	446		49	46	39	1892	2483	452L	15
ROAD (N)	461628.68	1190617.62	1A	435		38	35	28	1993	2585	10L	2
POLE	461629.45	1190616.36	1A	437		40	37	30	2111	2703	16L	2
POLE	461635.01	1190619.41	1A	444		47	44	37	2351	2942	537R	4
LIGHT STANDARD	461631.29	1190612.10	1A	459		62	59	52	2455	3047	91L	17
TREE	461632.47	1190612.90	1A	456		59	56	49	2499	3090	33R	13

OC0474

AIRPORT ELEVATION 407

3R A(V) 399/401 461538.844N 1190715.246W 2254319

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	461537.47	1190717.28	1A	400		1	-1	-7	200		0R	1
TREE	461522.37	1190739.62	1A	431		32	30	24	2391		1L	-78
SIGN	461521.87	1190744.01	1A	413		14	12	6	2647		180L	-108
LIGHT POLE	461508.79	1190809.32	1A	433		34	32	26	4846		473L	-198

21L A(V) 400/401 461609.335N 1190630.154W 0454352

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	461537.47	1190717.28	1A	400		0	-1	-7	-4625		0L	1
GROUND	461618.85	1190619.88	1A	423		23	22	16	1190		187R	-26
POLE	461620.43	1190611.40	1A	437		37	36	30	1728		114L	-39
RAILROAD	461621.61	1190612.21	1A	440		40	39	33	1771		10R	-39
SPEAKER ON POLE	461622.33	1190608.29	1A	454		54	53	47	2019		129L	-37
OL ON TOWER	461625.68	1190604.40	1A	479		79	78	72	2452		77L	-34

12 SUPLC 392/398 461625.026N 1190736.644W 3154409

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	461616.15	1190719.05	1A	396		4	-2	-11	-1507		258L	2
FENCE POST	461626.83	1190734.02	1A	395		3	-3	-12	2		260L	3
POLE	461641.27	1190751.90	1A	427		35	29	20	1927		381L	-16
POLE	461641.26	1190756.44	1A	427		35	29	20	2148		153L	-22

OC0474

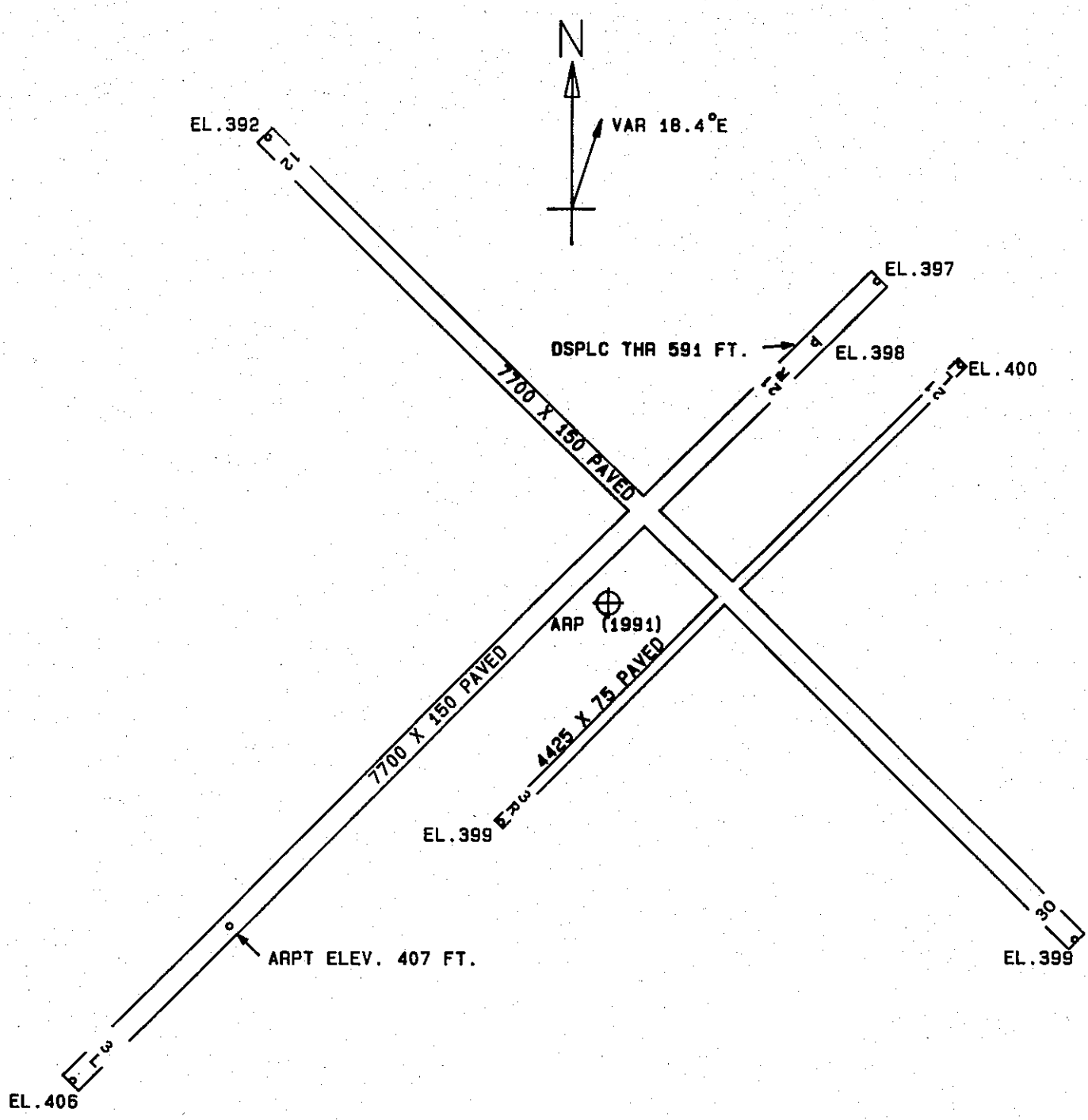
AIRPORT ELEVATION 407

30 C 399/401 461530.589N 1190620.166W 1354504

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	461626.83	1190734.02	1A	395		-4	-6	-12	-7702		260R	3
FENCE POST	461616.15	1190719.05	1A	396		-3	-5	-11	-6193		258R	2
FENCE POST	461521.46	1190607.41	1A	427		28	26	20	1288		3L	-4
TREE	461520.09	1190608.94	1A	429		30	28	22	1312		177L	-3
TOWER	461457.44	1190528.49	1A	515		116	114	108	4940		259R	-23

ARP 461553.363N 1190704.465W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA	461547.73	1190652.77	1A	424		17	106 23	1000
OL ON VOR/DME	461547.26	1190652.54	1A	433		26	108 0	1041
OL ON ANEMOMETER	461553.92	1190642.79	1A	424		17	69 28	1524
ANTENNA ON OL ATCT	461537.21	1190652.70	1A	471		64	134 48	1833
OL ON LIGHTED WINDSOCK	461548.60	1190633.95	1A	426		19	84 17	2198
ROD ON OL AIRPORT BEACON	461527.04	1190647.40	1A	480		73	137 23	2924
TREE	461521.74	1190622.72	1A	475		68	119 7	4344
ROD ON TOWER	461613.32	1190605.74	1A	523		116	45 29	4595
TREE	461521.79	1190615.71	1A	455		48	114 38	4687
ROD ON TOWER	461618.63	1190558.74	1A	519		112	42 36	5279
POLE	461522.39	1190809.98	1A	443		36	217 20	5571
ANTENNA ON OL POLE	461555.56	1190831.84	1B	574		167	253 41	6143
OL RADIO MAST	461340.82	1190732.22	2A	608	262	201	169 52	13567
OL RADIO MAST	461434.05	1191041.03	2A	721	355	314	223 47	17209



TOUCHDOWN ZONE RUNWAY	ELEVATION
3L	407
21R	400
3R	401
21L	401
12	398
30	401

TRI - CITIES AIRPORT

PASCO, WASHINGTON

(NOT TO SCALE)