

OBSTRUCTION DATA SHEET

**ODS 645
OLYMPIA AIRPORT
OLYMPIA, WASHINGTON**

DIGITIZED FROM

**OC 645
SURVEYED 16 JUNE 1992
8TH 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.

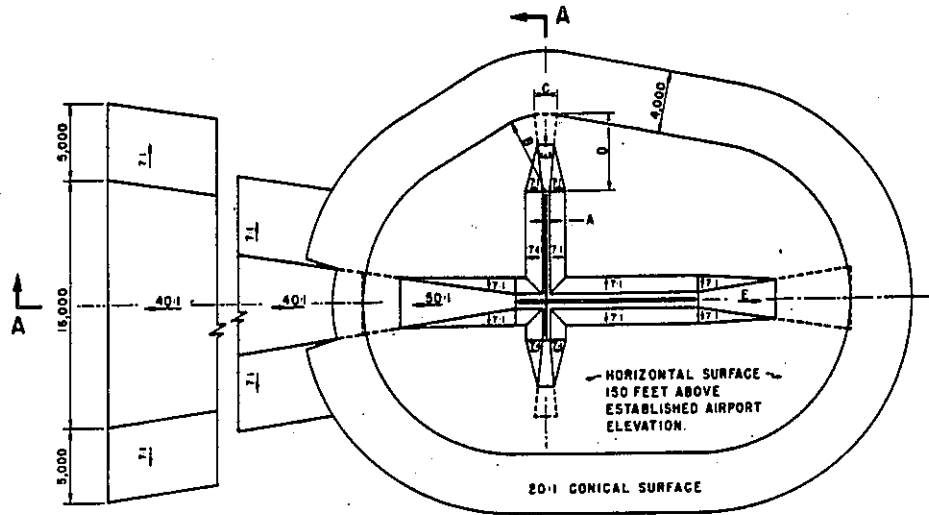
ODS information is arranged as follows:

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.

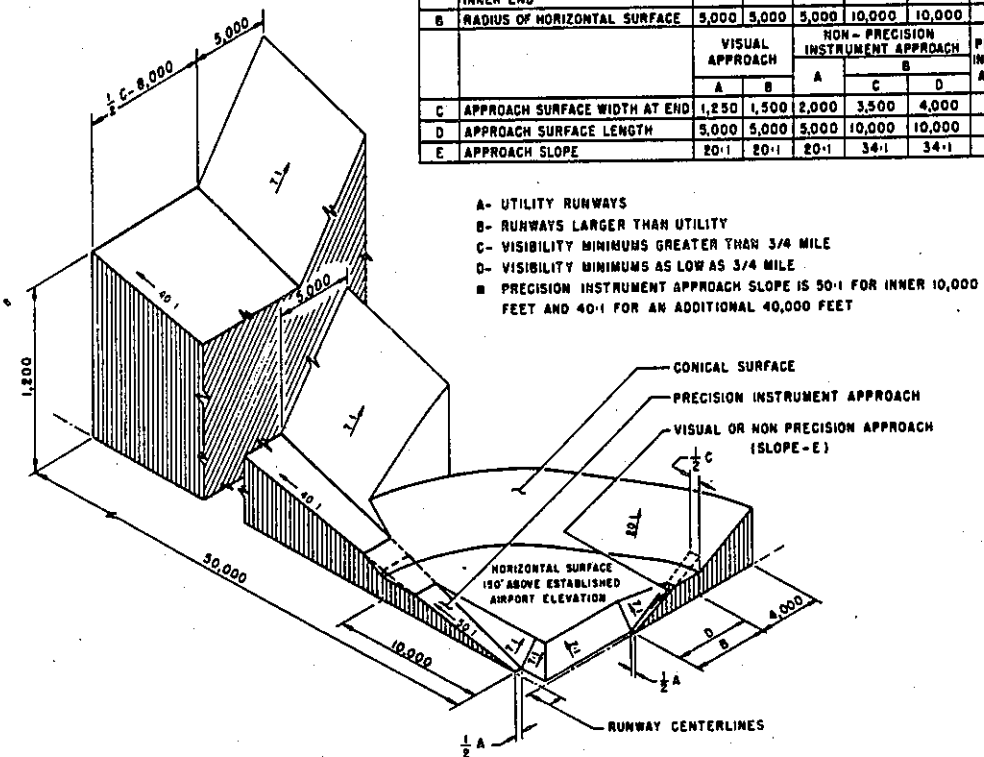
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

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	6
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	6



- 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
- E- 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

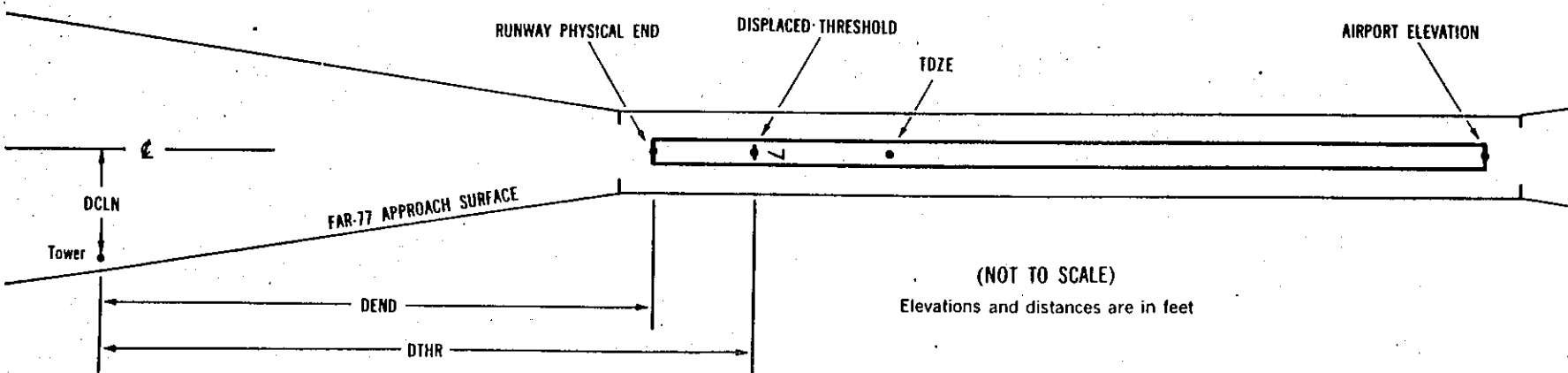
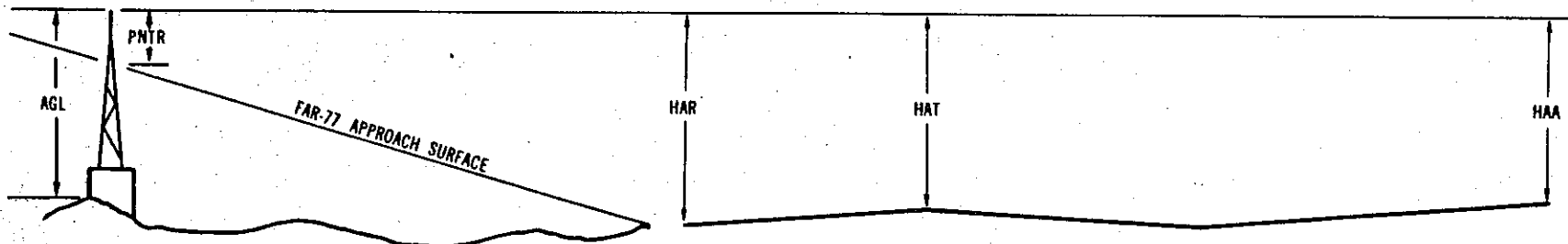
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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 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).

OC0645

AIRPORT ELEVATION 206

35 C 204/ 206 465749.031 -1225422.000 111805.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LTD WINDSOCK	465831.34	-1225402.47	1A	221		17	15	15	-4469		488R	29
OL ON GS	465828.36	-1225416.39	1A	225		21	19	19	-3983		399L	32
OL VORTAC	465817.88	-1225406.61	1A	233		29	27	27	-3075		474R	38
BUSH	465810.80	-1225411.54	1A	209		5	3	3	-2304		279R	8
BUSH	465755.36	-1225413.92	1A	213		9	7	7	-739		424R	8
TREE	465735.69	-1225435.58	1A	281		77	75	75	1510		659L	39
TREE	465732.67	-1225430.92	1A	256		52	50	50	1747		282L	7
TREE	465730.55	-1225437.93	1A	331		127	125	125	2052		717L	73
TREE	465725.35	-1225421.30	1A	280		76	74	74	2343		518R	13
TREE	465723.69	-1225426.15	1A	273		69	67	67	2574		221R	0
TREE	465706.64	-1225432.74	1A	327		123	121	121	4358		111R	1

OC0645

AIRPORT ELEVATION 206

17 PIR 190/ 465841.483 -1225406.684 1911816. 192/ 204 465837.350 -1225407.891

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	465755.36	-1225413.92	1A	213		23	9	7	-4680	-4253	424L	8
BUSH	465810.80	-1225411.54	1A	209		19	5	3	-3114	-2687	279L	8
OL VORTAC	465817.88	-1225406.61	1A	233		43	29	27	-2344	-1917	474L	38
OL ON GS	465828.36	-1225416.39	1A	225		35	21	19	-1436	-1009	399R	32
OL ON LTD WINDSOCK	465831.34	-1225402.47	1A	221		31	17	15	-950	-523	488L	29
FENCE	465842.90	-1225359.31	1A	197		7	-7	-9	241	668	473L	6
ROAD (N)	465843.26	-1225358.88	1A	204		14	0	-2	283	710	495L	12
ROAD (N)	465845.51	-1225357.53	1A	206		16	2	0	524	951	543L	9
ROAD (N)	465848.24	-1225404.77	1A	204		14	0	-2	698	1125	4R	4
GROUND	465849.25	-1225357.19	1A	206		16	2	0	901	1328	491L	2
TREE	465851.55	-1225359.74	1A	227		37	23	21	1095	1522	272L	19
TREE	465851.35	-1225354.47	1A	246		56	42	40	1147	1574	634L	37
POLF	465854.55	-1225409.52	1A	226		36	22	20	1260	1687	452R	15
TREE	465855.06	-1225411.76	1A	243		53	39	37	1280	1707	615R	31
TREE	465853.50	-1225358.67	1A	246		56	42	40	1302	1729	306L	34
TREE	465859.56	-1225409.04	1A	241		51	37	35	1764	2191	519R	19
TREE	465859.63	-1225405.05	1A	250		60	46	44	1825	2252	249R	27
TREE	465902.52	-1225411.39	1A	271		81	67	65	2026	2453	738R	44
TREE	465900.42	-1225351.34	1A	241		51	37	35	2090	2517	667L	13
TREE	465901.12	-1225349.83	1A	254		64	50	48	2180	2607	756L	24
TREE	465905.09	-1225411.19	1A	286		96	82	80	2284	2711	775R	54
TREE	465902.90	-1225348.45	1A	267		77	63	61	2376	2803	814L	33
TREE	465907.10	-1225356.13	1A	246		56	42	40	2688	3115	209L	6
TREE	465906.70	-1225349.43	1A	274		84	70	68	2740	3167	672L	33
TREE	465912.97	-1225410.58	1A	289		99	85	83	3075	3502	890R	41
TREE	465913.82	-1225407.57	1A	298		108	94	92	3201	3628	703R	48
TREE	465917.43	-1225405.82	1A	307		117	103	101	3583	4010	655R	49
TREE	465923.88	-1225401.35	1A	290		100	86	84	4284	4711	479R	18
TREE	465934.59	-1225359.24	1A	304		114	100	98	5377	5804	549R	10

OC0645

AIRPORT ELEVATION 206

8 SUPLC 194/ 201 465818.744 -1225440.555 1034050.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	465804.46	-1225328.97	1A	206		12	5	0	-5166		231R	2
BUSH	465807.22	-1225345.64	1A	212		18	11	6	-3977		233R	8
BUSH	465810.74	-1225407.51	1A	210		16	9	4	-2418		246R	10
BUSH	465815.14	-1225433.89	1A	201		7	0	-5	-536		246R	6
GROUND	465821.07	-1225442.47	1A	195		1	-6	-11	185		198L	1
BUILDING	465823.76	-1225510.11	1A	226		32	25	20	2112		10L	-24
TREE	465831.67	-1225520.17	1A	309		115	108	103	2979		623L	33
TREE	465820.09	-1225530.17	1A	312		118	111	106	3375		681R	25

26 SUPLC 204/ 205 465807.064 -1225330.495 2834141.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	465821.07	-1225442.47	1A	195		-9	-10	-11	-5185		198R	1
BUSH	465815.14	-1225433.89	1A	201		-3	-4	-5	-4465		246L	6
BUSH	465810.74	-1225407.51	1A	210		6	5	4	-2582		246L	10
BUSH	465807.22	-1225345.64	1A	212		8	7	6	-1024		233L	8
GROUND	465804.46	-1225328.97	1A	206		2	1	0	165		231L	2
POLE	465808.35	-1225316.98	1A	236		32	31	30	880		349R	12
TREE	465808.20	-1225315.70	1A	261		57	56	55	970		355R	34
POLE	465804.42	-1225313.16	1A	228		24	23	22	1232		24R	-6
TREE	465759.09	-1225309.07	1A	267		63	62	61	1635		433L	21
TREE	465804.28	-1225300.71	1A	261		57	56	55	2074		215R	2
TREE	465805.04	-1225257.54	1A	275		71	70	69	2269		342R	10
TREE	465754.03	-1225251.64	1A	320		116	115	114	2931		645L	36
TREE	465805.13	-1225244.16	1A	311		107	106	105	3168		570R	20
TREE	465757.86	-1225243.29	1A	301		97	96	95	3401		130L	3

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AIRPORT ELEVATION 206

ARP 465814.129 -1225410.111

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
BUILDING	465807.93	-1225351.58	1A	212		6	9638	1430
OL ON AMOM	465823.49	-1225353.03	1A	218		12	3153	1517
TREE	465820.81	-1225432.33	1A	220		14	27419	1683
ANT ON OL ATCT	465825.69	-1225430.38	1A	284		78	29024	1830
TREE	465823.25	-1225433.81	1A	237		31	27958	1885
WSK ON BLDG	465812.17	-1225437.42	1A	224		18	24437	1904
BUSH	465816.23	-1225442.09	1A	201		-5	25604	2228
TREE	465805.54	-1225442.54	1A	335		129	22927	2411
FLDLT ON HGR	465840.43	-1225357.86	1A	226		20	35816	2797
TREE	465840.65	-1225356.30	1A	272		66	12	2853
TREE	465842.55	-1225355.41	1A	297		91	5	3055
TREE	465843.69	-1225352.10	1A	304		98	313	3245
TREE	465752.59	-1225445.56	1B	358		152	20900	3287
BUILDING	465825.32	-1225455.60	1A	224		18	27022	3352
TREE	465829.66	-1225456.39	1A	309		103	27643	3574
TREE	465808.89	-1225314.09	1A	267		61	7822	3921
OL APBN ON WATER TANK	465841.44	-1225456.15	1B	359		153	29131	4224
TREE	465734.86	-1225438.18	1A	319		113	18640	4429
TREE	465730.46	-1225416.30	1A	282		76	16608	4445
TREE	465858.03	-1225415.15	1A	274		68	33606	4461
TREE	465757.83	-1225307.92	1A	291		85	9132	4618
TREE	465858.20	-1225349.54	1A	281		75	35818	4687
TREE	465726.04	-1225413.34	1A	325		119	16314	4877
TREE	465723.14	-1225414.70	1A	335		129	16407	5175
TREE	465722.05	-1225417.89	1A	316		110	16626	5304
TREE	465904.15	-1225347.32	1A	275		69	35754	5308
TREE	465817.05	-1225530.59	1B	330		124	25338	5588
TREE	465808.16	-1225242.72	1B	322		116	7617	6091
TREE	465810.07	-1225242.08	1B	343		137	7426	6118
TREE	465708.33	-1225412.30	1B	360		154	16154	6668
TREE	465656.79	-1225301.55	1B	413		207	12920	9166

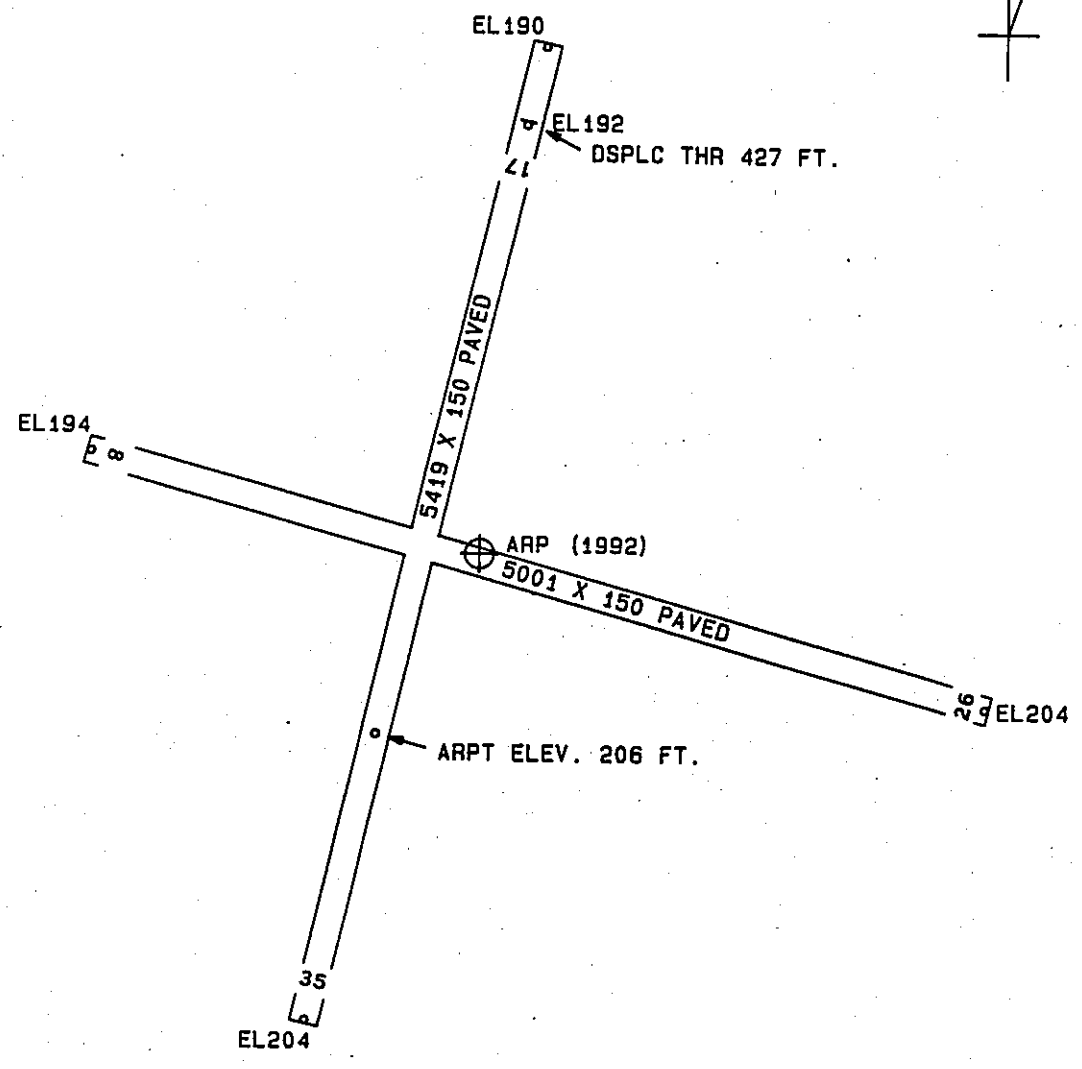
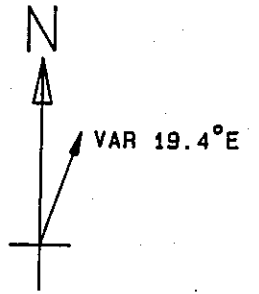
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AIRPORT ELEVATION 206

ARP 465814.129 -1225410.111

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	465705.14	-1225220.26	1B	420		214	11307	10339
TREE	465623.44	-1225251.37	2C	499		293	13437	12473
TREE	465618.56	-1225255.02	2C	480		274	13636	12814
TREE	465605.41	-1225359.38	2C	505		299	15719	13062
TREE	465616.58	-1225528.87	2C	390		184	18515	13102
TREE	465636.30	-1225204.77	2C	544		338	11919	13184
TREE	465603.98	-1225412.32	2C	490		284	16115	13186
TREE	465617.56	-1225237.85	2C	524		318	13208	13432
TREE	465630.64	-1225206.49	2C	531		325	12118	13544
ANT ON OL TWR	470043.74	-1225442.72	1B	502		296	33207	15325
OL ON STANDPIPE	470054.94	-1225504.05	1B	556		350	32740	16715
ANT ON STROBE LTD POLE	470056.21	-1225503.50	2A	614	200	408	32754	16833



TOUCHDOWN ZONE RUNWAY ELEVATION	
35	206
17	204
8	201
26	205

OLYMPIA AIRPORT
 OLYMPIA, WASHINGTON
 (NOT TO SCALE)