OBSTRUCTION DATA SHEET

ODS 641
PANGBORN MEMORIAL AIRPORT
WENATCHEE, WASHINGTON

DIGITIZED FROM

OC 641
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HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD

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ATTENTION

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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).

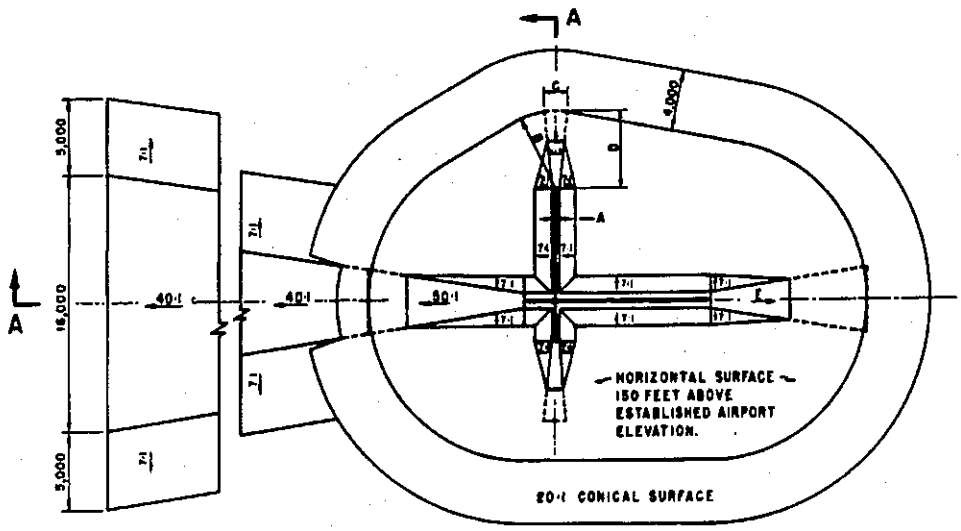
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

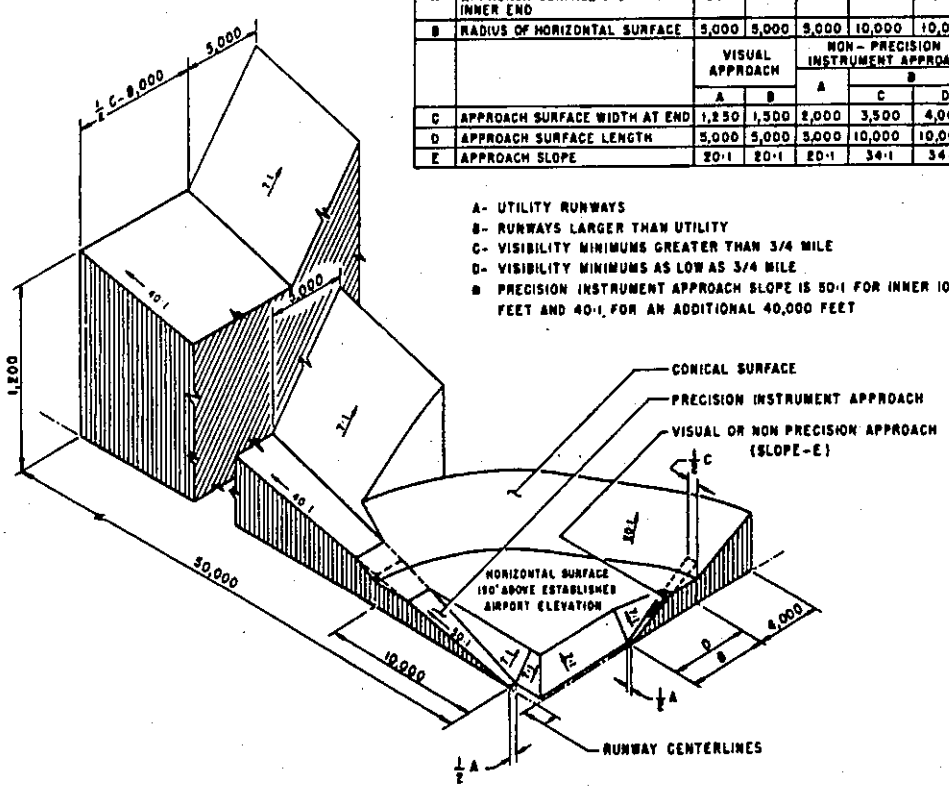
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision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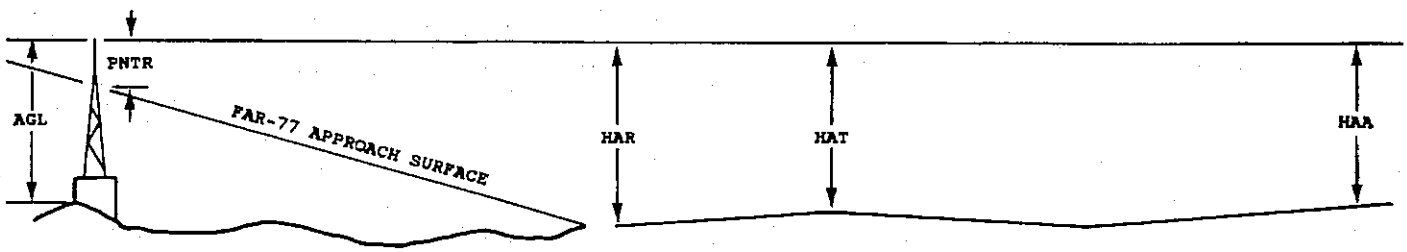
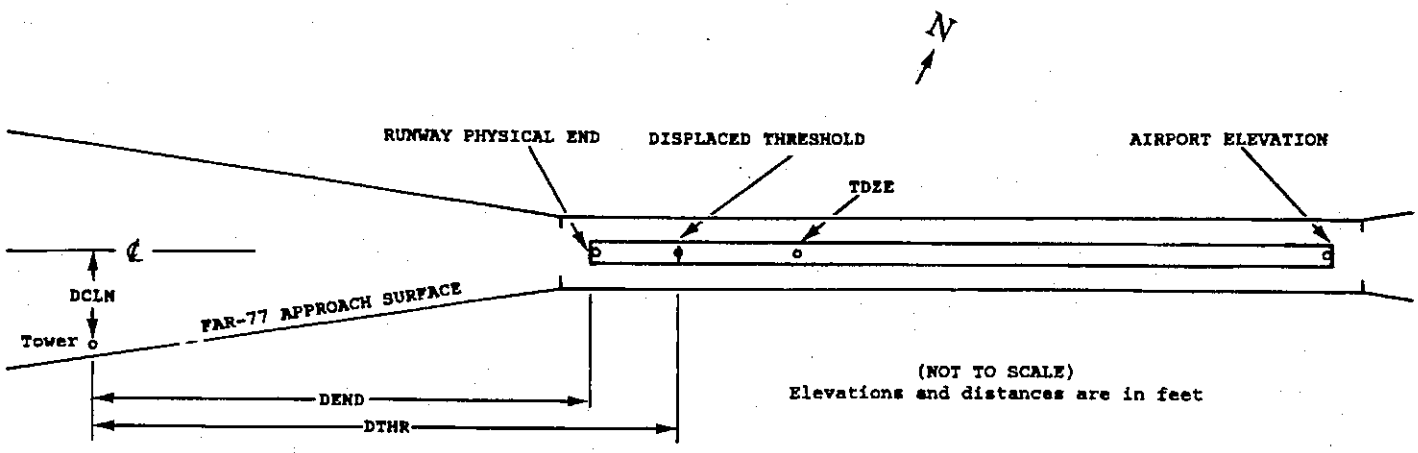




(NOT TO SCALE)
Elevations and distances are in feet

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 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(Ft.)	Vertical(Ft.)
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 <u>appearing on the OC</u> 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 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0641

AIRPORT ELEVATION 1245

12 SUPLC 1215/1221 472415.803 -1201254.965 1350112.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	472412.64	-1201246.89	1A	1228		13	7	-17	-620		166L	12
ELEC EQUIP	472420.80	-1201256.67	1A	1222		7	1	-23	441		275L	0
ROAD(N)	472421.33	-1201257.39	1A	1232		17	11	-13	514		278L	8
POLE	472420.90	-1201308.13	1A	1249		34	28	4	1006		275R	11
TREE	472420.53	-1201309.55	1A	1273		58	52	28	1048		371R	33
BUSH	472527.38	-1201435.69	1A	1481		266	260	236	10027		228L	-23

30 SUPLC 1227/1227 472337.409 -1201158.469 3150153.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	472412.64	-1201246.89	1A	1228		1	1	-17	-4880		166R	12
TREE	472335.54	-1201149.64	1A	1264		37	37	19	563		296R	26
TREE	472329.67	-1201142.47	1A	1256		29	29	11	1333		225R	-4

7 AV 1203/1227 472354.945 -1201253.045 900145.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	472355.22	-1201307.57	1A	1235		32	8	-10	999		27L	-8

25 AV 1245/1245 472354.918 -1201149.642 2700231.

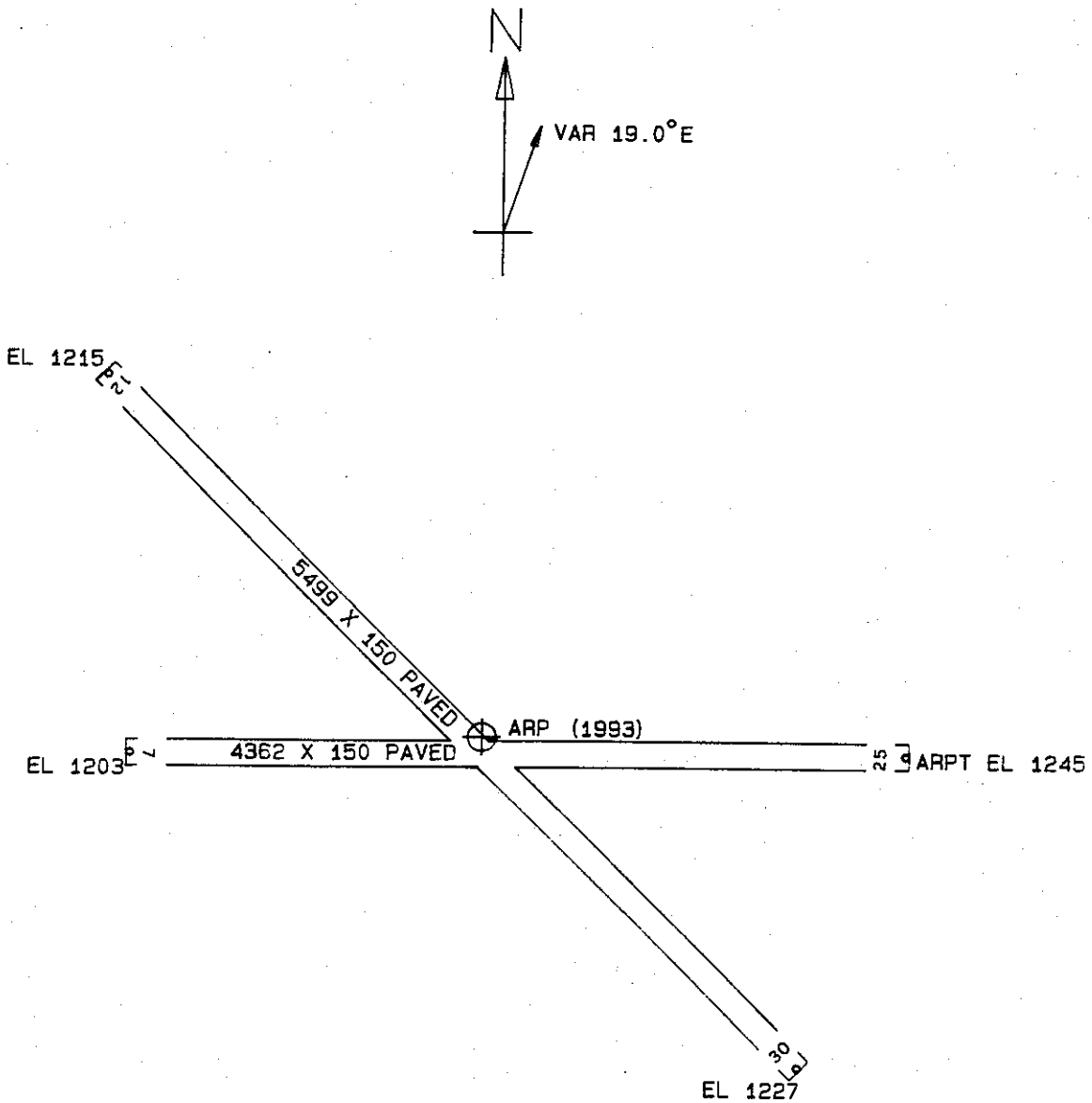
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD(N)	472354.81	-1201142.47	1A	1263		18	18	18	493		11L	3
BLDG	472352.86	-1201132.84	1A	1276		31	31	31	1156		208L	-17

OC0641

AIRPORT ELEVATION 1245

ARP 472355.866 -1201224.338

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
WTEE	472401.70	-1201226.00	1A	1233		-12	33004	602
GROUND	472349.34	-1201222.78	1A	1230		-15	15147	670
OL ON VOR/DME	472358.90	-1201238.97	1A	1248		3	26759	1053
OL ON AMOM	472350.94	-1201210.64	1A	1246		1	9855	1066
ANT ON OL TWR	472351.25	-1201204.69	1A	1265		20	9005	1430
ROD ON OL APBN	472411.68	-1201224.65	1A	1288		43	34014	1602
GROUND	472335.53	-1201201.08	1A	1228		-17	12309	2609
TREE	472341.80	-1201149.40	1A	1301		56	10139	2795
TREE	472338.65	-1201149.49	1A	1272		27	10701	2965
TREE	472415.87	-1201307.29	1A	1264		19	28527	3583
TREE	472333.60	-1201142.47	1A	1280		35	10903	3659
TREE	472418.56	-1201306.69	1A	1262		17	28916	3711
TRMSN POLE	472448.34	-1201138.87	1A	1526		281	1127	6169
TRMSN POLE	472443.48	-1201127.71	1A	1522		277	1954	6200
TRMSN POLE	472451.38	-1201145.79	1A	1501		256	614	6219
TRMSN POLE	472453.66	-1201151.05	1A	1472		227	220	6288
TRMSN POLE	472439.01	-1201117.42	1A	1401		156	2728	6348
GROUND	472453.68	-1201143.06	1A	1551		306	651	6510
POLE	472501.83	-1201306.84	1A	1441		196	31722	7295
TRMSN POLE	472514.71	-1201208.76	1A	1577		332	34838	8060
TRMSN POLE	472515.55	-1201220.15	1A	1571		326	34302	8079
TRMSN POLE	472516.48	-1201232.57	1A	1520		275	33702	8188
GROUND	472505.59	-1201107.26	1A	1658		413	1752	8833
GROUND	472442.93	-1201034.50	1A	1669		424	3843	8935
TRMSN POLE	472529.98	-1201318.73	1A	1501		256	31935	10243
GROUND	472538.41	-1201219.31	1A	1827		582	34254	10396
GROUND	472537.87	-1201305.92	1A	1638		393	32532	10724
TRMSN TWR	472443.63	-1201004.56	1A	1707		462	4416	10765
TRMSN POLE	472532.96	-1201328.86	1A	1550		305	31643	10793
TRMSN TWR	472446.22	-1201002.06	1A	1735		490	4327	11037



TOUCHDOWN ZONE RUNWAY	ELEVATION
12	1221
30	1227
7	1227
25	1245

PANGBORN MEMORIAL AIRPORT

WENATCHEE, WASHINGTON

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)