

OBSTRUCTION DATA SHEET

**ODS 6643
SANDERSON FIELD
SHELTON, WASHINGTON**

DIGITIZED FROM

**OC 6643
SURVEYED 8 AUGUST 1992
1ST 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.

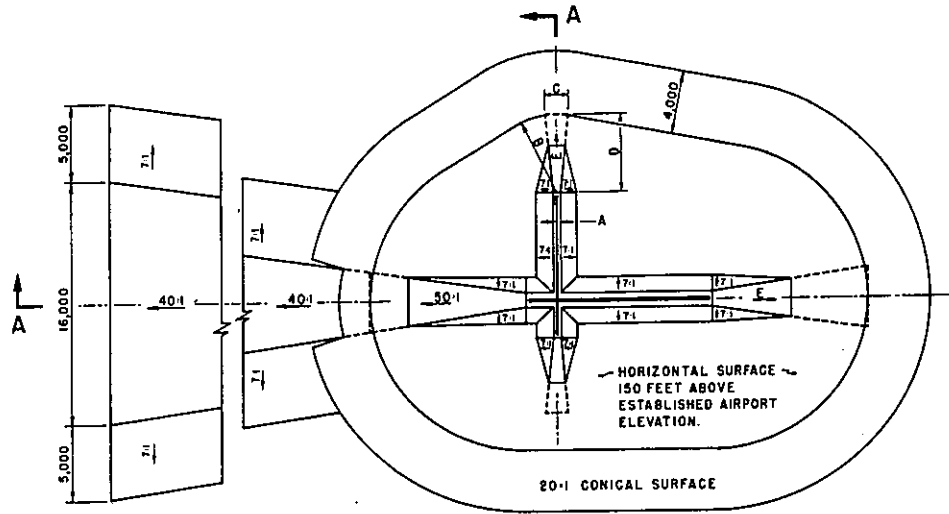
ODS information is arranged as follows:

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:

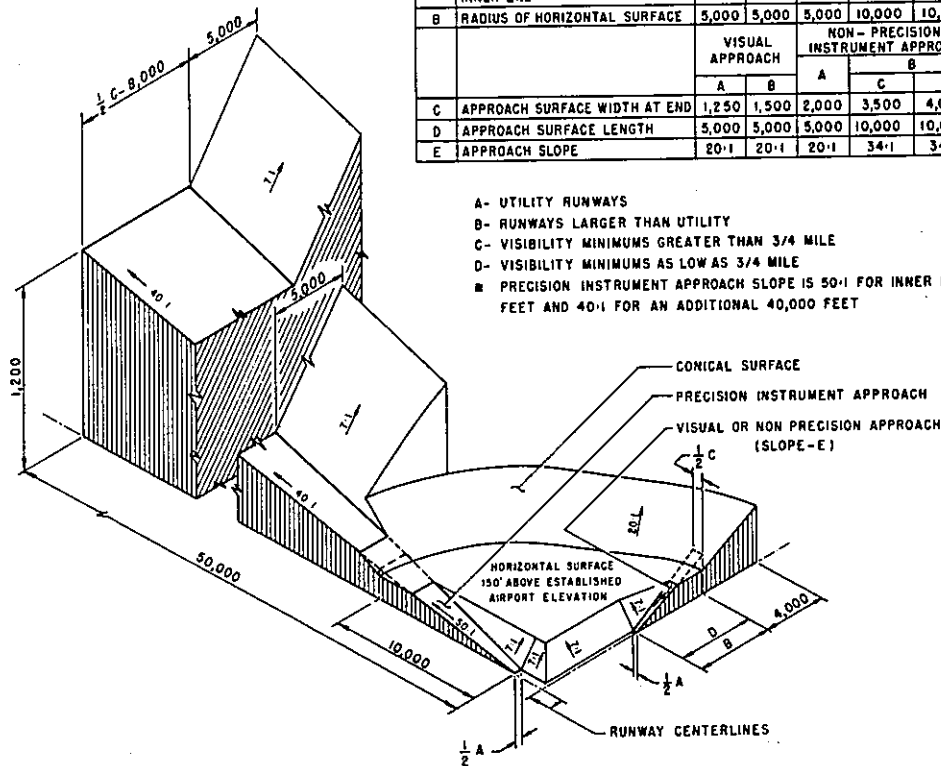
A(V) Utility runway - visual approach only
A(NP) Utility runway - nonprecision instrument approach
B(V) Nonutility runway - visual approach only
C Nonutility runway - nonprecision instrument
approach with visibility minimums greater than
3/4 mile
D Nonutility runway- nonprecision instrument approach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

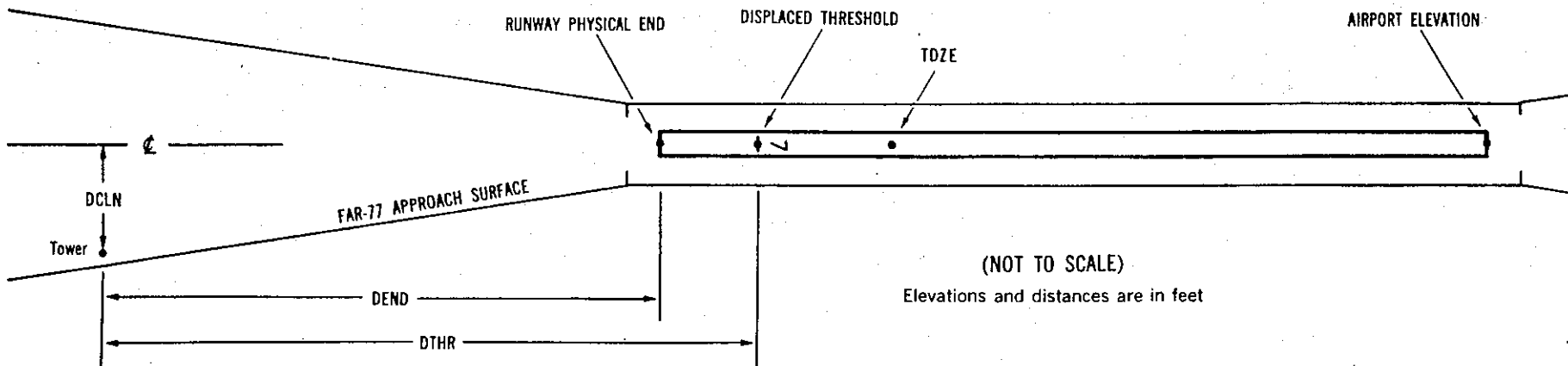
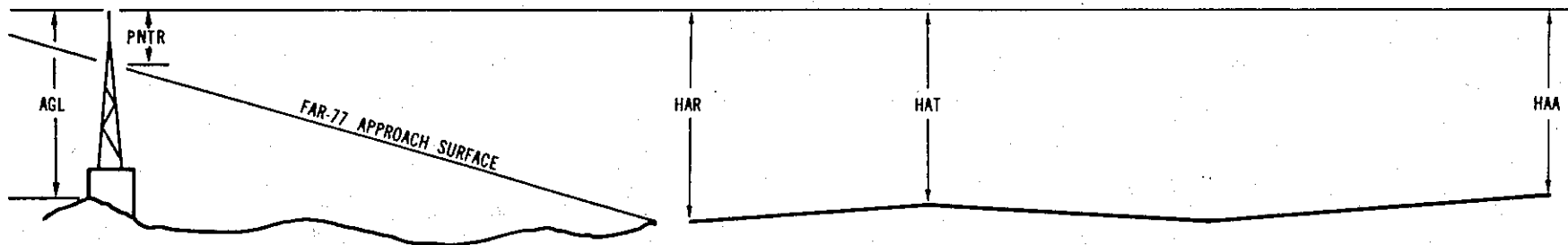
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X 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
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).

OC6643

AIRPORT ELEVATION 269

5 SUPLC 255/ 266 471351.524 -1230924.735 675355.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	471358.57	-1230851.10	1A	275		20	9	6	-2419		212R	11
GROUND	471355.79	-1230900.51	1A	262		7	-4	-7	-1712		228R	1
TREE	471350.90	-1230938.24	1A	290		35	24	21	888		292L	15
TREE	471343.45	-1230939.75	1A	315		60	49	46	1268		368R	29
TREE	471347.92	-1230944.10	1A	324		69	58	55	1375		165L	35
TREE	471344.33	-1230945.08	1A	310		55	44	41	1575		147R	15
TREE	471340.87	-1231009.17	1A	410		155	144	141	3247		154L	66
TREE	471344.52	-1231014.25	1A	426		171	160	157	3433		629L	76
TREE	471315.38	-1231118.62	2C	456		201	190	187	8661		434R	-48

23 C 269/ 269 471410.084 -1230817.609 2475444.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	471355.79	-1230900.51	1A	262		-7	-7	-7	-3288		228L	1
BUSH	471358.57	-1230851.10	1A	275		6	6	6	-2581		212L	11
GROUND	471409.76	-1230814.10	1A	270		1	1	1	212		122L	0
GROUND	471414.14	-1230812.59	1A	281		12	12	12	476		250R	4
GROUND	471409.76	-1230807.90	1A	283		14	14	14	608		283L	2
ROAD (N)	471417.99	-1230804.11	1A	302		33	33	33	1164		392R	4
TREE	471412.71	-1230749.68	1A	338		69	69	69	1886		478L	19
TREE	471417.71	-1230747.37	1A	348		79	79	79	2224		68L	19
TREE	471416.40	-1230745.84	1A	349		80	80	80	2272		231L	19
TREE	471420.12	-1230745.49	1A	366		97	97	97	2436		109R	31
TREE	471427.40	-1230738.98	1A	366		97	97	97	3130		623R	11
TREE	471422.09	-1230705.95	1A	394		125	125	125	5040		731L	-18
TRMSN TWR	471446.63	-1230620.62	1A	382		113	113	113	8873		398R	-142

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AIRPORT ELEVATION 269

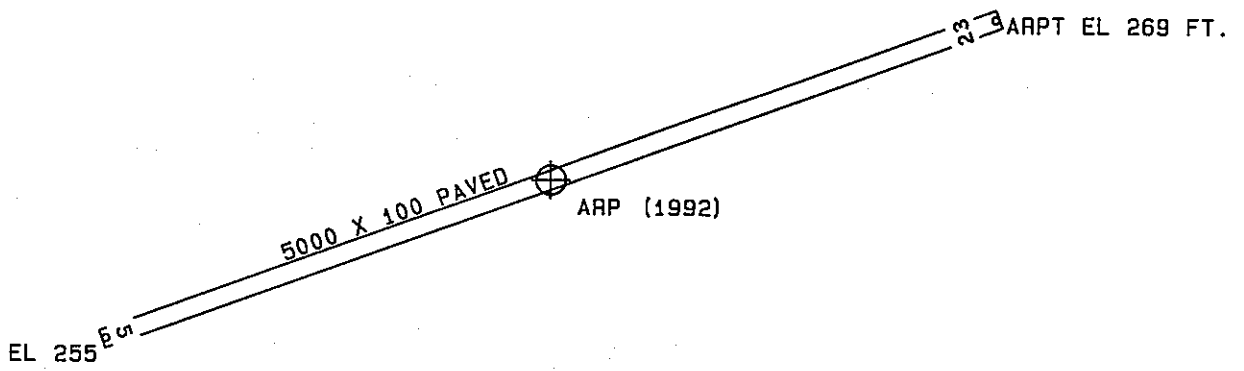
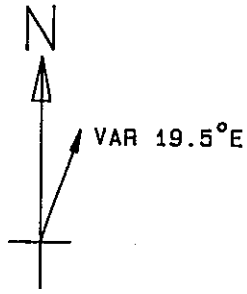
ARP 471400.806 -1230851.174

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	471358.96	-1230847.17	1A	280		11	10440	334
SIGN	471400.34	-1230842.52	1A	272		3	7500	599
LTD WINDSOCK	471407.47	-1230855.84	1A	295		26	31458	748
TREE	471354.82	-1230858.80	1A	325		56	20126	803
TREE	471356.67	-1230837.69	1A	347		78	9443	1020
BUSH	471402.37	-1230835.68	1A	275		6	6205	1081
SIGN	471404.37	-1230825.88	1A	275		6	5848	1783
TREE	471420.39	-1230909.82	1A	438		169	30732	2365
TREE	471346.63	-1230919.96	1A	312		43	21438	2451
TREE	471348.78	-1230923.95	1A	264		-5	22211	2569
TREE	471359.19	-1230929.26	1A	356		87	24657	2634
BUSH	471407.61	-1230814.05	1A	278		9	5525	2653
TREE	471344.92	-1230922.02	1A	329		60	21324	2668
TREE	471343.74	-1230926.06	1A	346		77	21449	2964
AIRPORT BEACON	471423.51	-1230823.74	1A	333		64	1956	2979
TREE	471417.70	-1230813.50	1A	337		68	3708	3113
TREE	471416.95	-1230809.00	1A	301		32	4109	3339
TREE	471343.31	-1230932.59	1A	330		61	21842	3364
TREE	471419.75	-1230808.55	1A	356		87	3721	3513
TREE	471406.66	-1230800.83	1A	366		97	6047	3524
TREE	471400.48	-1230943.26	1A	417		148	24958	3595
TREE	471352.13	-1230944.08	1A	364		95	23658	3756
TREE	471327.22	-1230917.74	1A	440		171	18849	3865
LIGHT STANDARD	471411.05	-1230757.06	1A	296		27	5457	3876
TREE	471409.62	-1230756.09	1A	352		83	5716	3905
TREE	471324.37	-1230832.54	1A	481		212	14117	3909
TREE	471357.48	-1230959.22	1A	446		177	24624	4708
TREE	471314.38	-1230854.37	1A	501		232	16311	4710
TREE	471323.52	-1230938.55	1A	466		197	20123	4996
OL TRMSN TWR	471328.48	-1230754.76	1B	451		182	11033	5088
TREE	471451.79	-1230827.86	1A	472		203	35747	5410

AIRPORT ELEVATION 269

ARP 471400.806 -1230851.174

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	471323.26	-1230949.20	1A	468		199	20658	5524
TRMSN TWR	471314.11	-1230804.60	1B	407		138	12618	5720
TREE	471402.27	-1231016.99	1A	506		237	25156	5924
TREE	471503.31	-1230903.18	1A	433		164	33303	6387
TREE	471505.83	-1230859.60	1A	430		161	33527	6614
OL ON TANK	471506.14	-1230915.13	1A	462		193	32628	6823
TREE	471345.12	-1231027.45	1A	477		208	23703	6832
TREE	471346.00	-1231029.46	1A	486		217	23802	6947
TREE	471500.04	-1230754.10	1B	448		179	1345	7179
TREE	471510.30	-1230911.64	1A	436		167	32909	7182
TRMSN TWR	471354.24	-1230705.71	1B	350		81	7542	7309
TRMSN TWR	471249.46	-1230807.38	1B	349		80	13747	7835
TREE	471518.28	-1230849.46	1A	425		156	34121	7851
TREE	471308.49	-1231019.92	1A	518		249	20938	8101
TREE	471528.42	-1230917.10	1A	453		184	32906	9056
TRMSN TWR	471416.90	-1230621.90	1B	390		121	6129	10430
TREE	471208.20	-1230934.43	2C	556		287	17510	11794
ANT ON OL TANK	471415.65	-1231154.99	1A	479		210	25716	12775
TREE	471310.77	-1231158.96	2C	485		216	22909	13918



TOUCHDOWN ZONE RUNWAY ELEVATION	
5	266
23	269

SANDERSON FIELD
SHELTON, WASHINGTON
(NOT TO SCALE)