

OBSTRUCTION DATA SHEET

**ODS 642
ABERDEEN REGIONAL AIRPORT
ABERDEEN, SOUTH DAKOTA**

DIGITIZED FROM

**OC 642
SURVEYED SEPTEMBER 1991
11TH EDITION**



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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:

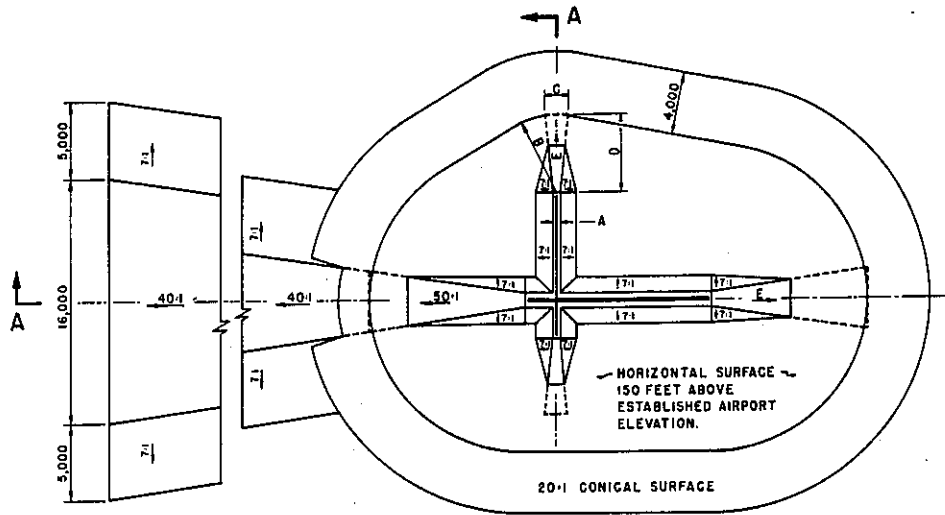
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the 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)

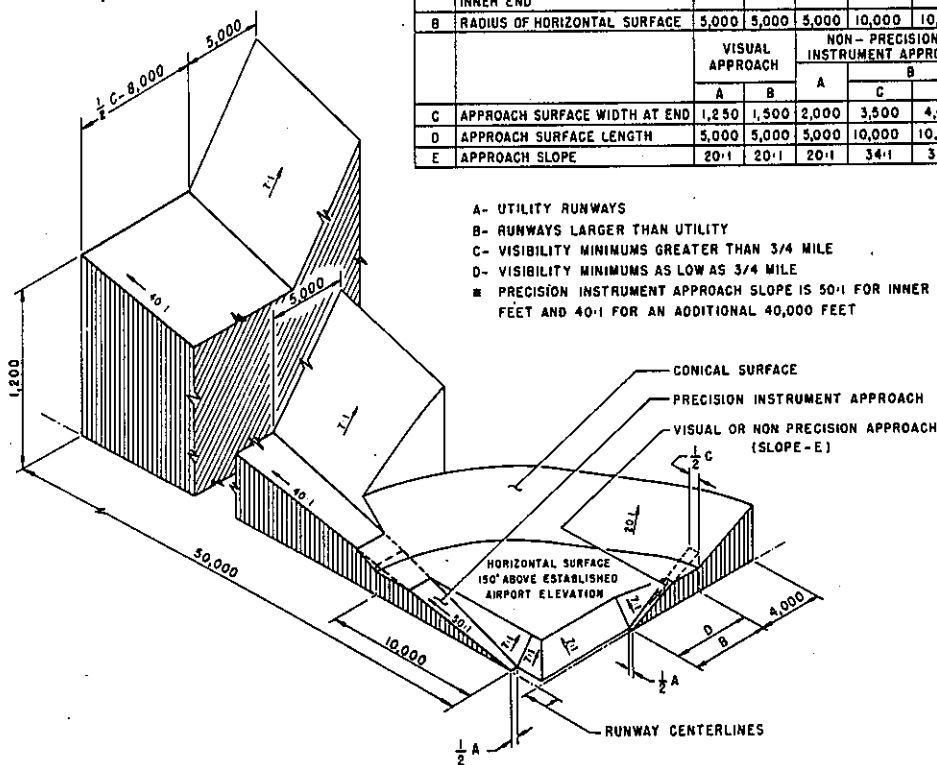
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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		
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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	B		
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

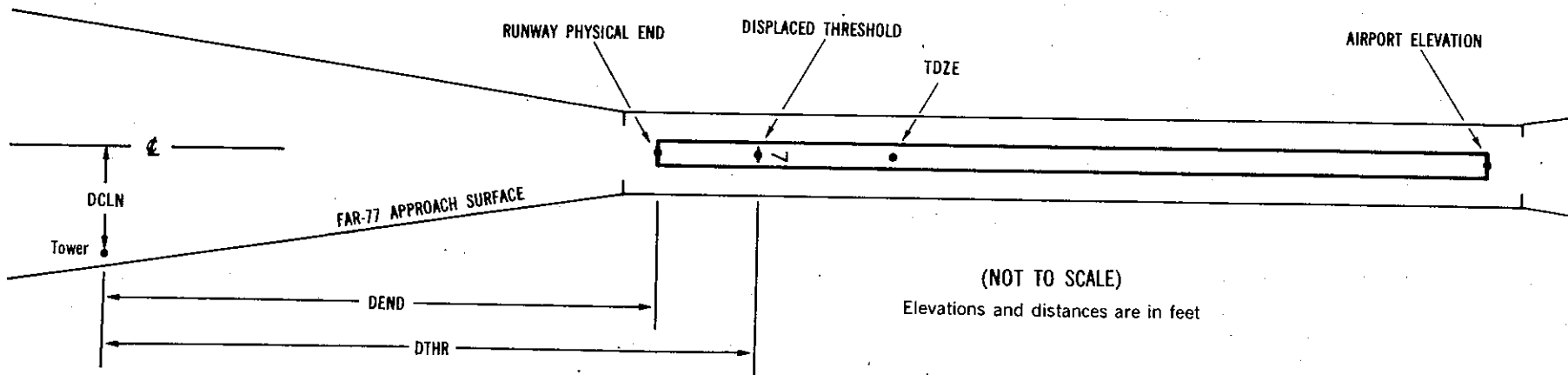
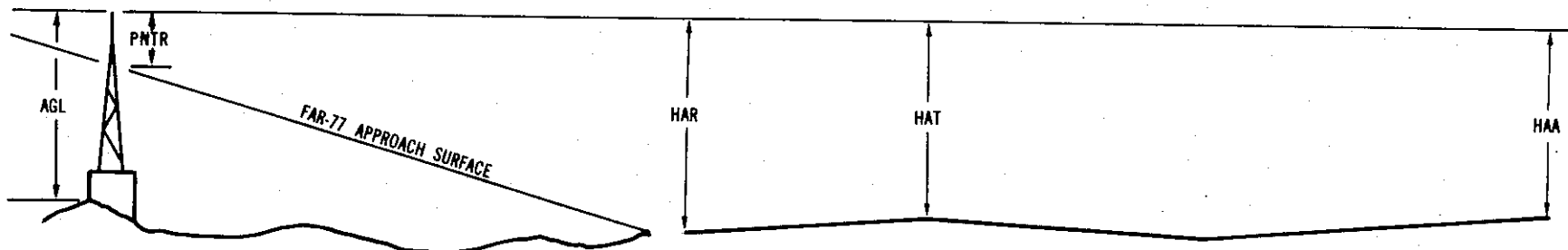
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X¹ X² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

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 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).

OC0642

AIRPORT ELEVATION 1301

13 C 1300/1301 452718.940N 0982539.584W 3150348

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	452636.63	0982447.53	1A	1329		29	28	28	-5655		399R	30
GROUND	452640.14	0982450.39	1A	1300		0	-1	-1	-5259		292R	2
GROUND	452719.47	0982540.45	1A	1301		1	0	0	82		6R	1
OL ON DME	452729.65	0982551.15	1A	1320		20	19	19	1350		182L	-14
TREE	452724.47	0982559.37	1A	1343		43	42	42	1393		602R	8
TREE	452727.06	0982600.79	1A	1360		60	59	59	1650		489R	17
TREE	452731.66	0982604.09	1A	1358		58	57	57	2146		326R	1

31 PIR 1300/1300 452630.688N 0982431.202W 1350436

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	452719.47	0982540.45	1A	1301		1	1	0	-6985		6L	1
GROUND	452640.14	0982450.39	1A	1300		0	0	-1	-1644		292L	2
OL ON GLIDE SLOPE	452636.63	0982447.53	1A	1329		29	29	28	-1248		399L	30
GROUND	452623.77	0982421.09	1A	1300		0	0	-1	1005		16R	-16

17 SUPLC 1300/1301 452725.781N 0982537.122W 3595638

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	452647.97	0982540.60	1A	1298		-2	-3	-3	-3829		251R	-1
GROUND	452719.47	0982540.45	1A	1301		1	0	0	-639		238R	1
FLOODLIGHT	452734.28	0982541.94	1A	1319		19	18	18	861		342R	-1
FLOODLIGHT	452736.72	0982541.90	1A	1329		29	28	28	1108		339R	2
ANTENNA	452740.29	0982540.11	1A	1344		44	43	43	1470		212R	7

OC0642

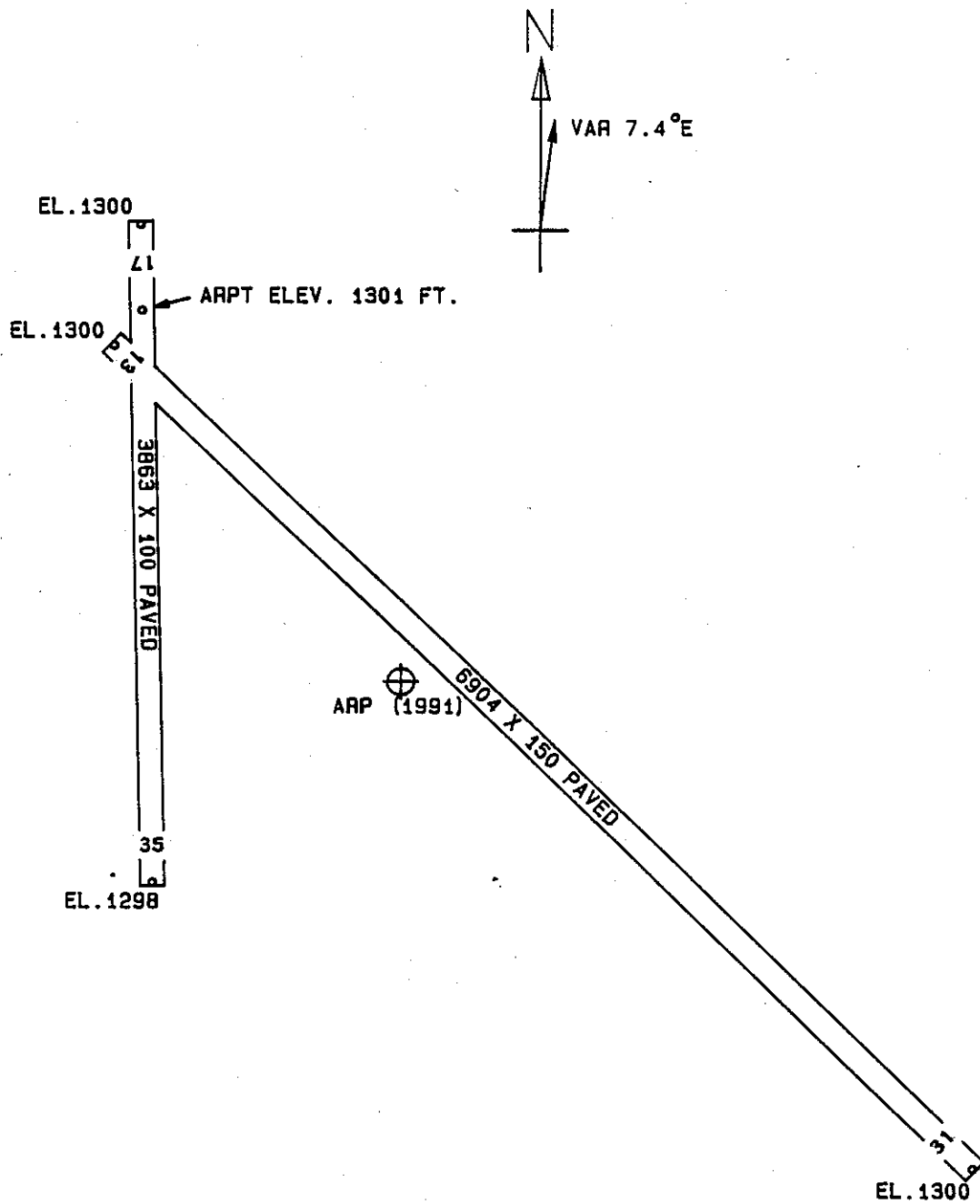
AIRPORT ELEVATION 1301

35 SUPLC 1298/1301 452647.642N 0982537.069W 1795638

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	452719.47	0982540.45	1A	1301		3	0	0	-3224		238L	1
FENCE POST	452647.97	0982540.60	1A	1298		0	-3	-3	-34		251L	-1
TREE	452640.98	0982540.22	1A	1308		10	7	7	675		225L	-4
ROAD (N)	452640.55	0982536.98	1A	1307		9	6	6	719		6R	-6

ARP 452659.084N 0982516.765W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
OL ON WINDSOCK	452659.24	0982524.49	1A	1326		25	264	15	551
TREE	452659.73	0982541.40	1A	1319		18	264	45	1758
TREE	452643.02	0982527.73	1A	1347		46	198	15	1805
SIGN ON HANGAR	452719.34	0982518.87	1A	1345		44	348	25	2057
TREE	452647.12	0982542.37	1A	1334		33	229	1	2191
ROD ON OL ANEMOMETER	452708.80	0982546.20	1A	1319		18	287	44	2318
ROD ON OL AIRPORT BEACON	452725.24	0982522.64	1A	1356		55	343	37	2682
TREE	452651.33	0982438.78	1A	1360		59	98	46	2820
TREE	452634.59	0982453.18	1A	1343		42	138	28	2997
STACK	452738.71	0982543.33	1A	1334		33	327	20	4438
OL ON ELEVATOR	452757.68	0982257.24	2C	1499		198	51	46	11582



TOUCHDOWN ZONE RUNWAY ELEVATION	
13	1301
31	1300
17	1301
35	1301

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 (NOT TO SCALE)