

OBSTRUCTION DATA SHEET

ODS 173
CENTRAL NEBRASKA REGIONAL AIRPORT
GRAND ISLAND, NEBRASKA

DIGITIZED FROM

OC 173
SURVEYED SEPTEMBER 1993
9TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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.

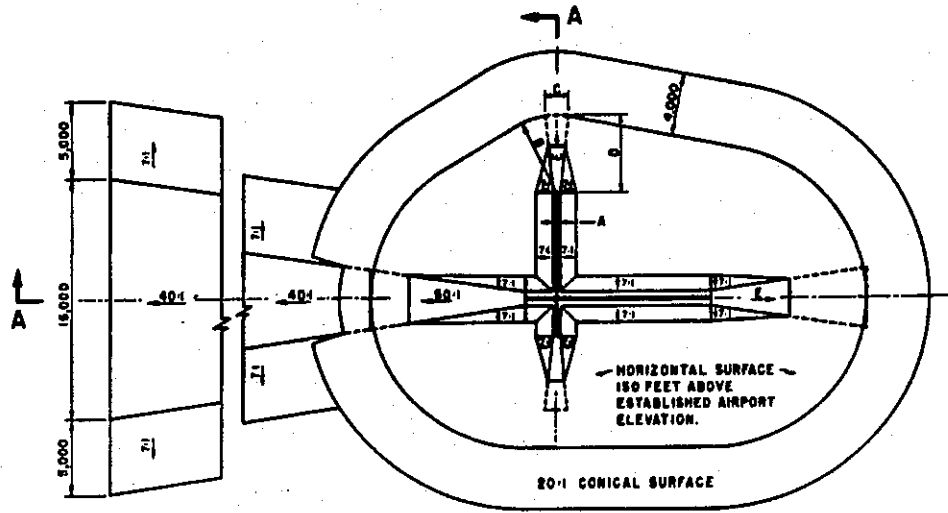
ODS information is arranged as follows:

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.

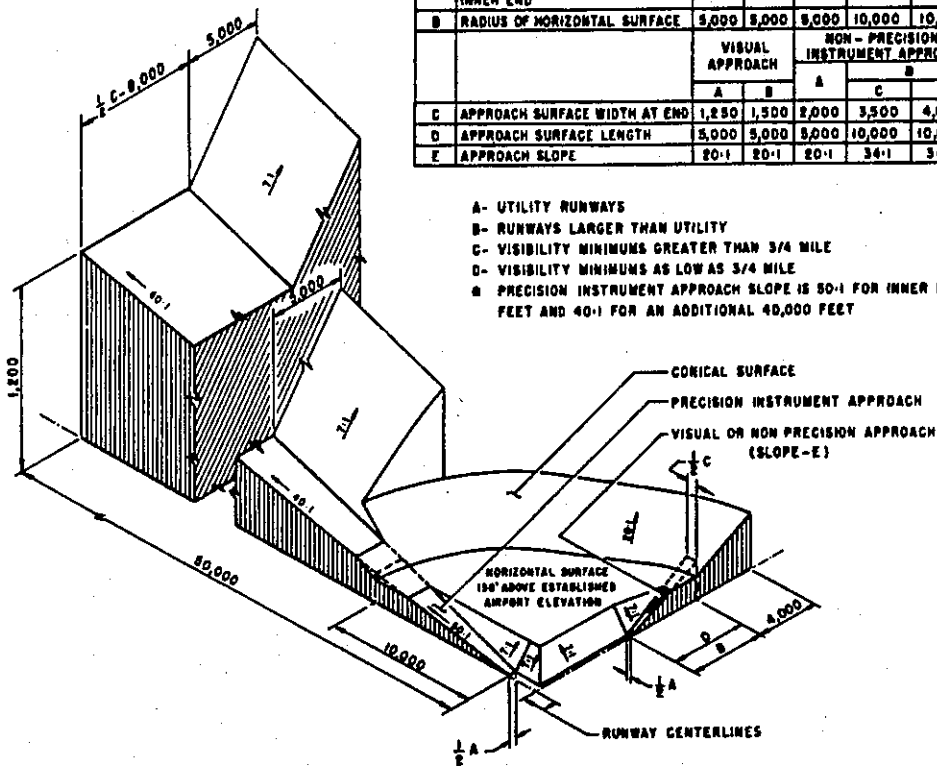
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

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	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	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	3,000	8,000	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
- 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**

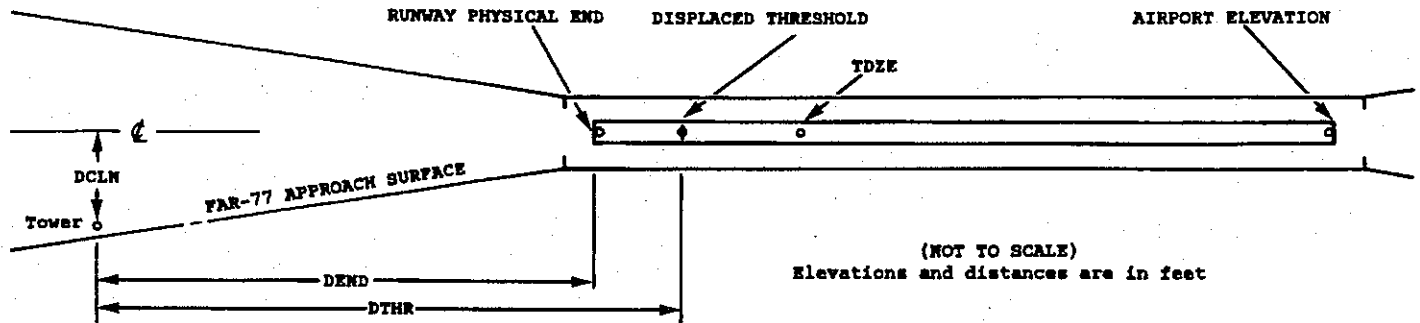
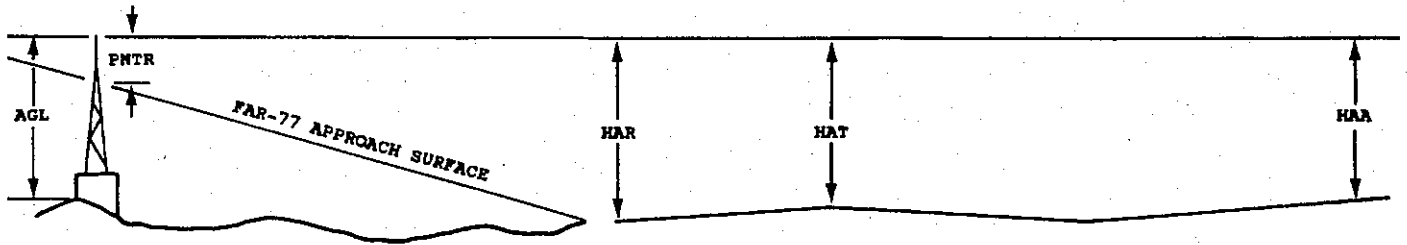
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

¹X ²X ³XXXX/XXXX ⁴XXXXXX.XXX ⁴XXXXXX.XXX ⁵XXXXXX ⁶XXXX/XXXX ⁷XXXXXX.XXX ⁷XXXXXX.XXX

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	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXX.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 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 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 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).

OC0173

AIRPORT ELEVATION 1846

13 D 1840/1840 405848.506 -981850.545 1351742.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	405807.55	-981801.31	1A	1847		7	7	1	-5602		231R	8
TREE	405832.83	-981823.64	1A	1850		10	10	4	-2579		351L	12
WSK	405842.78	-981839.38	1A	1848		8	8	2	-1014		201L	9
OL ON LOC	405854.84	-981853.08	1A	1848		8	8	2	592		313L	-3
ANT ON BLDG	405855.60	-981855.77	1A	1848		8	8	2	792		220L	-9
POLE	405902.54	-981914.40	1A	1880		40	40	34	2296		301R	-21

31 C 1840/1840 405802.101 -981749.958 3151822.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	405842.78	-981839.38	1A	1848		8	8	2	-5591		201R	9
TREE	405832.83	-981823.64	1A	1850		10	10	4	-4027		351R	12
WSK	405807.55	-981801.31	1A	1847		7	7	1	-1004		231L	8
TREE	405749.40	-981732.52	1A	1863		23	23	17	1854		46R	-26
TREE	405751.40	-981722.61	1A	1881		41	41	35	2245		729R	-19

35 PIR 1846/1846 405728.658 -981853.667 1755.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
PIPE	405837.77	-981847.82	1A	1847		1	1	1	-6995		412R	4
WSK	405827.88	-981850.39	1A	1848		2	2	2	-5993		220R	7
ANT ON OL GS	405740.50	-981847.08	1A	1883		37	37	37	-1201		499R	38
WSK	405738.58	-981856.61	1A	1852		6	6	6	-1002		231L	7
OL ON LT TWR	405616.90	-981840.29	1A	1945		99	99	99	7255		1064R	-42

000173

AIRPORT ELEVATION 1846

17 D 1843/1843 405837.826 -981853.192 1801755.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	405738.58	-981856.61	1A	1852		9	9	6	-5996		231R	7
ANT ON OL GS	405740.50	-981847.08	1A	1883		40	40	37	-5797		499L	38
WSK	405827.88	-981850.39	1A	1848		5	5	2	-1005		220L	7
PIPE	405837.77	-981847.82	1A	1847		4	4	1	-3		412L	4
OL ON LOC	405854.84	-981853.08	1A	1848		5	5	2	1721		OR	-39
ANT ON BLDG	405855.60	-981855.77	1A	1848		5	5	2	1797		207R	-42
VOR	405902.47	-981853.15	1A	1869		26	26	23	2493		10R	-41

4 SUPLC 1846/ 405716.990 -981852.434 451812. 1846/1846 405717.996 -981851.092

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	405754.81	-981758.21	1A	1849		3	3	3	-5648	-5503	205R	8
WSK	405726.76	-981843.45	1A	1853		7	7	7	-1185	-1041	218L	8
ROAD (N)	405700.64	-981914.24	1A	1862		16	16	16	2353	2497	1L	-47

22 SUPLC 1839/1843 405806.934 -981745.833 2251855.

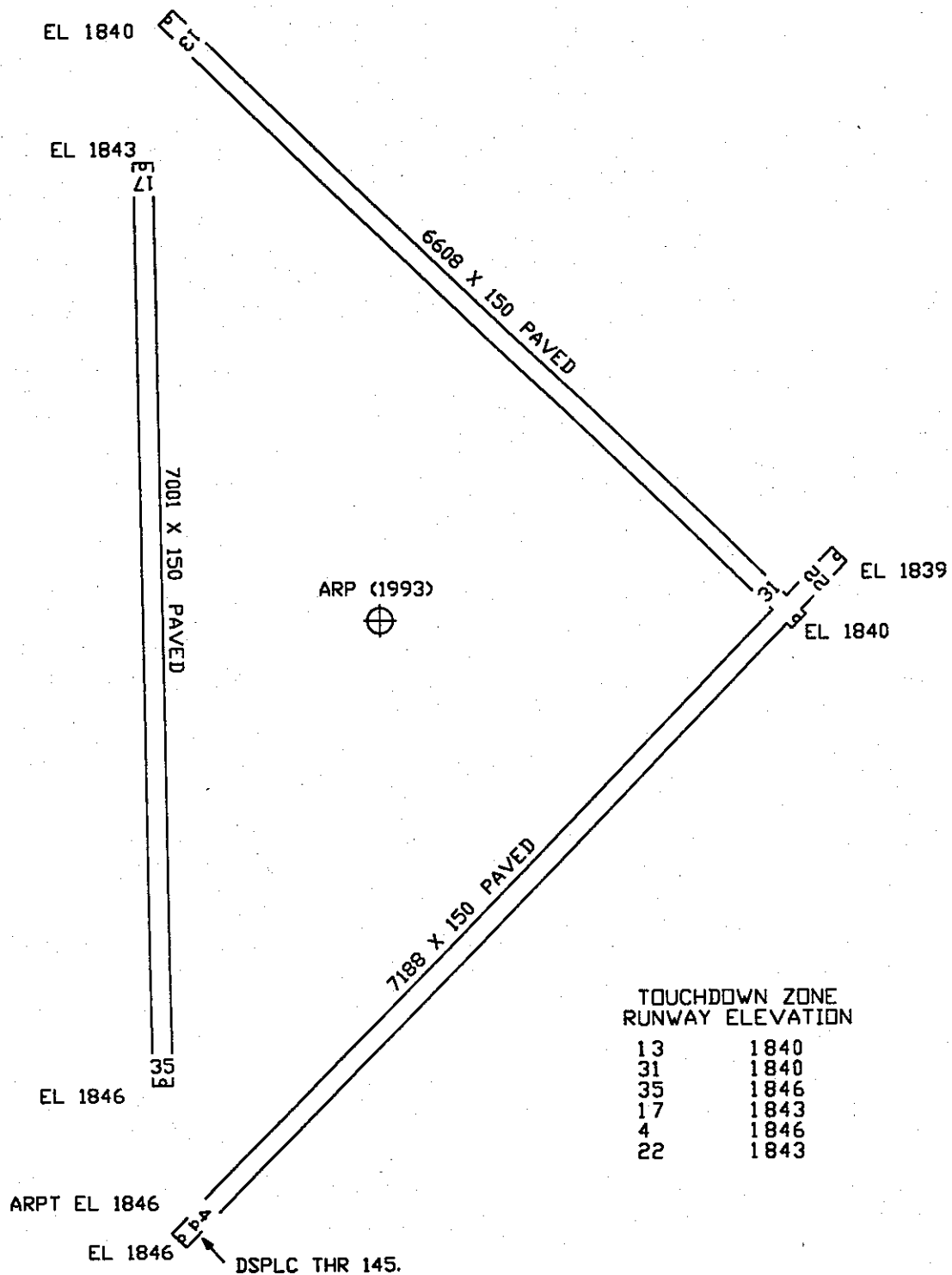
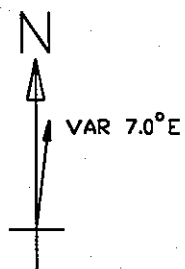
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	405726.76	-981843.45	1A	1853		14	10	7	-6000		218R	8
WSK	405754.81	-981758.21	1A	1849		10	6	3	-1537		205L	8
POLE	405826.03	-981716.06	1A	1867		28	24	21	2982		231L	-54

OC0173

AIRPORT ELEVATION 1846

ARP 405802.897 -981831.034

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON WSK	405802.95	-981840.84	1A	1865		19	26322	752
AMOM	405759.73	-981845.12	1A	1863		17	24630	1127
ROD ON APBN	405802.60	-981906.21	1A	1901		55	26222	2698
TREE	405823.20	-981807.57	1A	1865		19	3412	2731
ANT ON OL ATCT	405815.29	-981905.72	1A	1908		62	28814	2940
ROD ON OL DOME	405810.42	-981909.15	1A	1931		85	27736	3021
TREE	405832.73	-981817.60	1A	1884		38	1150	3189
HANGAR	405828.04	-981903.21	1A	1876		30	30852	3544
TREE	405801.69	-981737.77	1A	1853		7	8442	4087
ANT	405824.66	-981653.77	1A	1927		81	6632	7777
OL ELEVATOR	405623.36	-981817.76	1A	1998		152	16713	10122
ANT ON OL TWR	405538.96	-982035.58	1A	2066		220	20616	17418



TOUCHDOWN ZONE RUNWAY ELEVATION	
13	1840
31	1840
35	1846
17	1843
4	1846
22	1843

CENTRAL NEBRASKA REGIONAL AIRPORT
 GRAND ISLAND, NEBRASKA
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)