OBSTRUCTION DATA SHEET

ODS 5052
OAKLAND - PONTIAC AIRPORT
PONTIAC, MICHIGAN

DIGITIZED FROM

OC 5052
SURVEYED 29 SEPTEMBER 1992
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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).

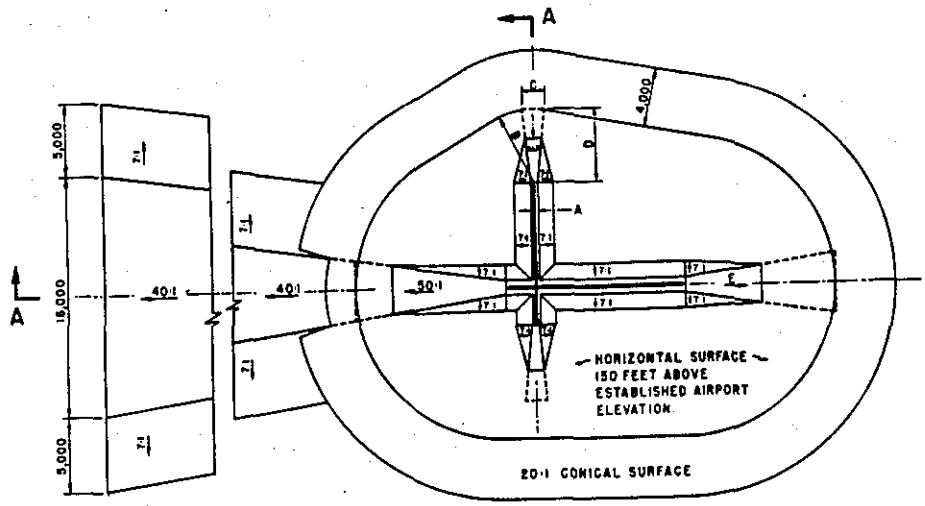
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

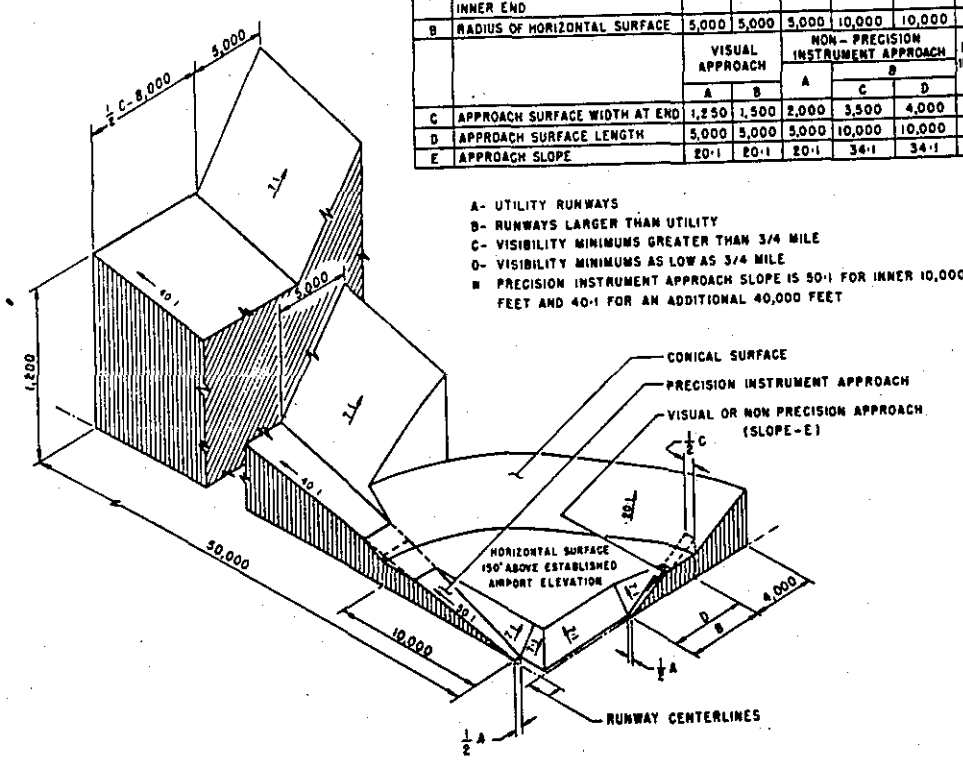
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision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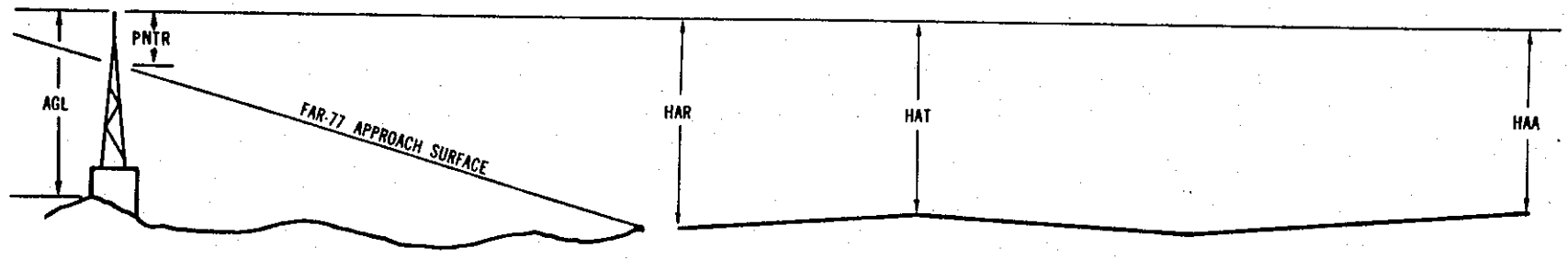
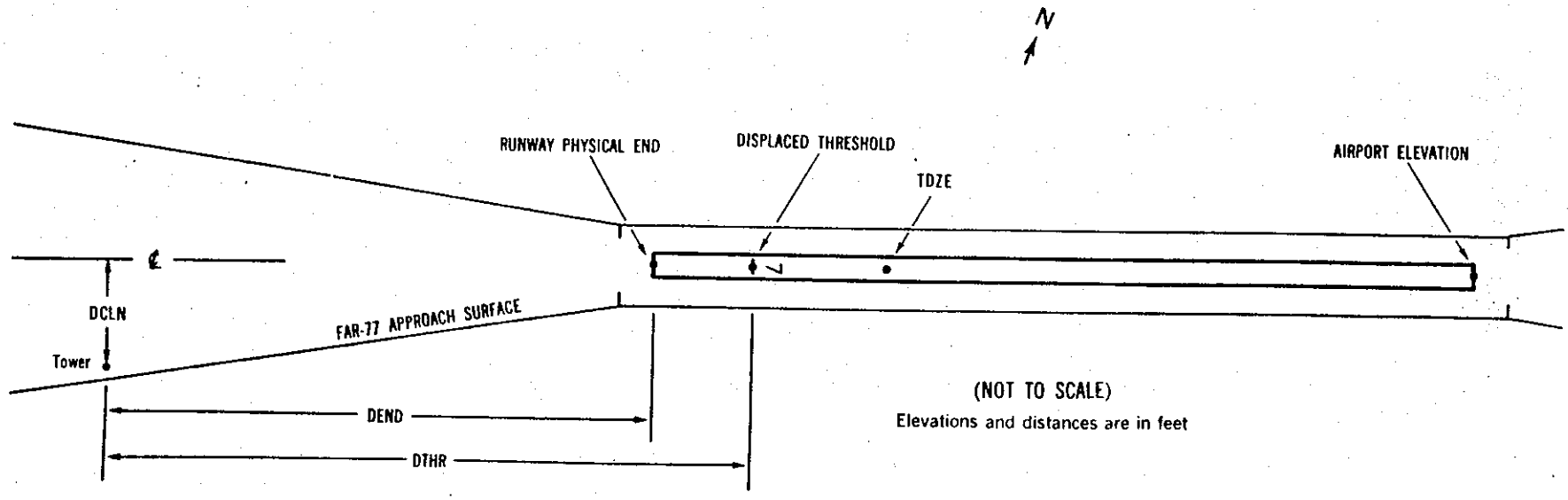




(NOT TO SCALE)

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 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 <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 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).

OC5052

AIRPORT ELEVATION 980

18 AV 973/ 424001.389 -832430.226 1780925.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
HANGAR	424008.17	-832429.68	1A	987		14		7	685		63L	-10
TREE	424016.83	-832430.12	1A	1032		59		52	1562		58L	-9

36 AV 969/ 423943.068 -832429.427 3580925.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LT POLE	423934.80	-832431.34	1A	1001		32		21	832		170L	1
LT POLE	423934.88	-832427.43	1A	998		29		18	833		123R	-3
POLE	423933.27	-832430.28	1A	1003		34		23	989		96L	-5
ANT ON OL HOPPER	423930.74	-832431.15	1A	1027		58		47	1244		168L	6
TREE	423929.09	-832430.16	1A	1029		60		49	1413		100L	-1

4 AV 970/ 423941.005 -832450.855 410536.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD(N)	423939.10	-832455.49	1A	980		10		0	373		134L	2
ROAD(N)	423937.92	-832454.41	1A	981		11		1	410		5R	1
LT POLE	423934.12	-832456.43	1A	994		24		14	799		144R	-5
ANT ON BLDG	423932.68	-832458.47	1A	1002		32		22	1009		125R	-8
TREE	423926.68	-832504.13	1A	1042		72		62	1745		206R	-5

OC5052

AIRPORT ELEVATION 980

22 AV 972/ 423959.253 -832429.289 2210551.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	424004.38	-832421.75	1A	1004		32		24	761		84L	4
TREE	424007.10	-832421.97	1A	1010		38		30	958		110R	0
TREE	424009.39	-832421.05	1A	1018		46		38	1178		211R	-3
TREE	424011.99	-832415.41	1A	1031		59		51	1653		66R	-14

9L AV 975/ 975 423958.298 -832539.443 874012.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON TMOM	423956.65	-832545.36	1A	994		19	19	14	448		149R	7
TREE	423959.86	-832608.89	1A	992		17	17	12	2191		247L	-83
TREE	424000.46	-832615.45	1A	1029		54	54	49	2679		328L	-70
TREE	423953.80	-832618.52	1A	1005		30	30	25	2936		336R	-107
TREE	423958.24	-832623.89	1A	1011		36	36	31	3318		129L	-120
TREE	423957.76	-832626.67	1A	1015		40	40	35	3528		89L	-126

27R AV 969/ 975 423959.602 -832455.972 2674041.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	424000.65	-832418.32	1A	1010		41	35	30	2815		7L	-90
TREE	424002.67	-832415.92	1A	1011		42	36	31	3002		189R	-98
TREE	424000.45	-832414.18	1A	1021		52	46	41	3123		40L	-94

OC5052

AIRPORT ELEVATION 980

9R PIR 980/ 980 423952.753 -832559.294 873910.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SCREEN ON TMOM	423956.12	-832541.94	1A	993		13	13	13	-1309		287L	17
OL ON GS	423956.14	-832545.30	1A	1007		27	27	27	-1059		300L	30
ROD ON TMOM	423956.65	-832545.36	1A	994		14	14	14	-1056		351L	17
ROAD(N)	423946.75	-832608.70	1A	990		10	10	10	727		578R	0
CHY ON BLDG	423946.79	-832610.21	1A	994		14	14	14	839		569R	2
TREE	423953.80	-832618.52	1A	1005		25	25	25	1431		165L	1
TREE	423958.24	-832623.89	1A	1011		31	31	31	1813		630L	-1
TREE	423957.76	-832626.67	1A	1015		35	35	35	2023		590L	-1
TREE	423943.46	-832633.00	1A	1036		56	56	56	2554		837R	9
TREE	423945.46	-832636.66	1A	1035		55	55	55	2820		623R	3

27L C 971/ 974 423955.252 -832436.391 2674006.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON TMOM	423956.65	-832545.36	1A	994		23	20	14	-5142		351R	17
OL ON GS	423956.14	-832545.30	1A	1007		36	33	27	-5140		300R	30
SCREEN ON TMOM	423956.12	-832541.94	1A	993		22	19	13	-4889		287R	17
TREE	423952.84	-832418.43	1A	1005		34	31	25	1331		299L	1
TREE	424000.65	-832418.32	1A	1010		39	36	30	1371		491R	4
TREE	423951.82	-832417.21	1A	1011		40	37	31	1418		405L	4
TREE	423949.54	-832416.46	1A	1016		45	42	36	1464		638L	8
LOC	423955.88	-832415.55	1A	980		9	6	0	1559		1R	-31
TREE	424000.45	-832414.18	1A	1021		50	47	41	1679		458R	6
TREE	423953.61	-832409.80	1A	1022		51	48	42	1978		247L	-2
TREE	423951.16	-832407.84	1A	1024		53	50	44	2114		501L	-4

OC5052

AIRPORT ELEVATION 980

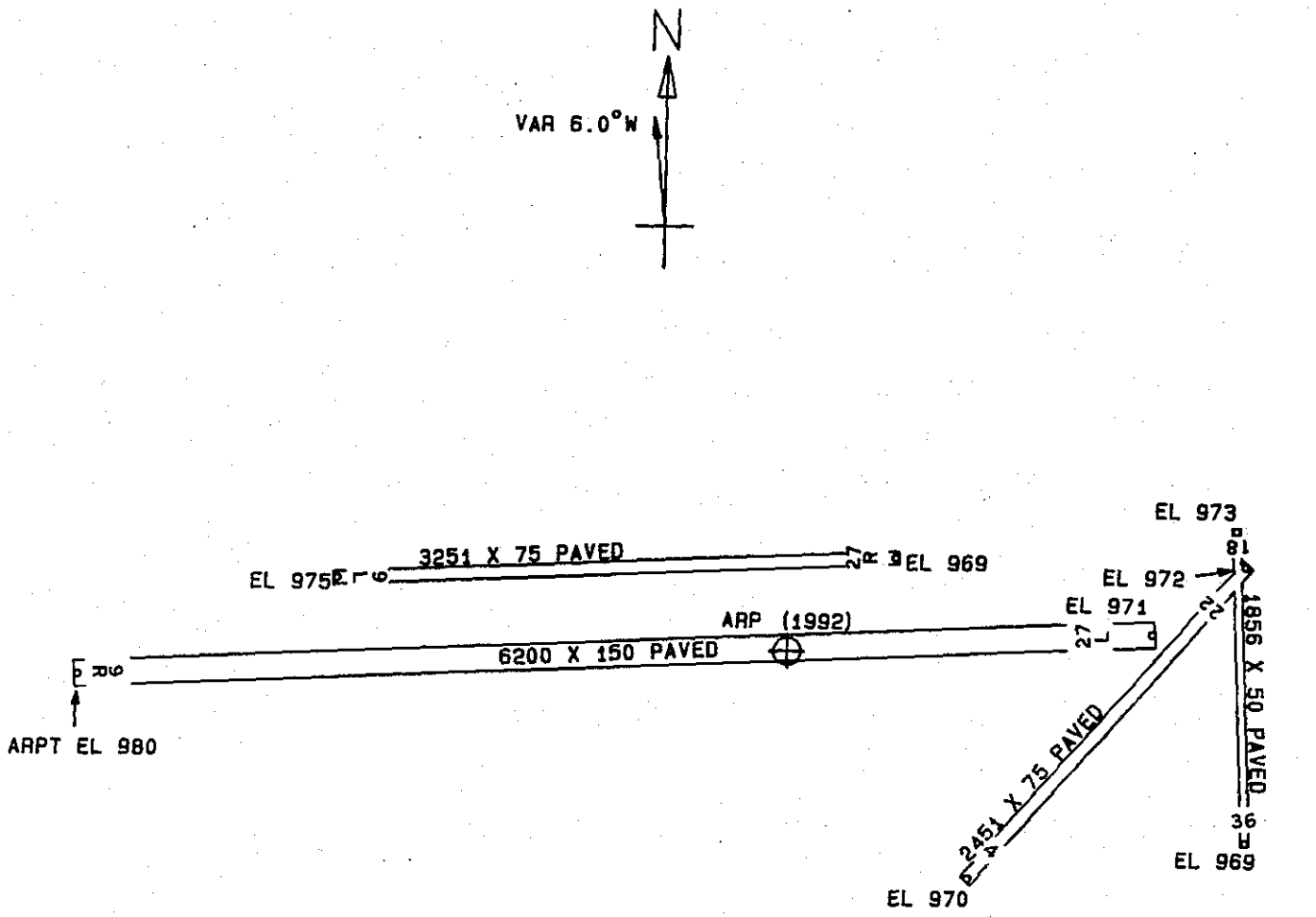
ARP 423954.244 -832504.603

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
AMOM AND APBN ON OL ATCT	423946.58	-832501.58	1A	1037		57	16945	808
OL ON LTD WSK	423947.21	-832456.34	1A	997		17	14505	942
SIGN	423948.21	-832519.14	1A	990		10	24637	1246
TREE	424002.88	-832516.98	1A	1052		72	31923	1272
SIGN	423948.11	-832528.14	1A	996		16	25633	1865
ANT ON HANGAR	423939.45	-832445.45	1A	1005		25	14218	2071
LT POLE	423935.11	-832452.73	1A	991		11	16123	2130
POLE	423932.24	-832456.83	1A	1001		21	17123	2302
ANT ON HANGAR	423944.64	-832535.57	1A	1040		60	25313	2509
OL ON HANGAR	424005.28	-832433.20	1A	992		12	7032	2599
CHY ON OL HANGAR	423938.31	-832432.66	1A	1005		25	13003	2880
TREE	424003.57	-832542.63	1A	1043		63	29423	2994
LT ON HANGAR	424007.51	-832427.83	1A	989		9	6956	3058
ANT ON HANGAR	423947.66	-832423.31	1A	1008		28	10810	3156
TREE	424017.45	-832435.58	1A	1042		62	4841	3197
HANGAR	423941.03	-832424.52	1A	1006		26	12004	3280
ANT ON HANGAR	423944.47	-832547.36	1A	1038		58	25847	3344
OL ON HANGAR	423937.19	-832425.54	1A	991		11	12635	3390
TREE	424021.60	-832435.52	1A	1066		86	4406	3520
TREE	424009.17	-832411.89	1A	1030		50	7459	4218
POLE	423945.23	-832609.17	1A	1006		26	26518	4909
TREE	424001.73	-832610.34	1A	1032		52	28446	4969
ANT	423944.47	-832610.27	1A	1021		41	26436	5004
TREE	423945.44	-832611.98	1A	1014		34	26557	5112
POLE	423945.83	-832613.48	1A	1003		23	26636	5216
TREE	423943.47	-832619.80	1A	1051		71	26501	5723
TREE	423943.80	-832624.29	1A	1028		48	26556	6046
TREE	423941.91	-832627.77	1A	1064		84	26438	6337
TREE	423942.41	-832628.75	1A	1054		74	26513	6400
TREE	424044.64	-832410.45	1B	1108		128	4424	6510
TREE	423939.64	-832652.77	1A	1065		85	26538	8215

AIRPORT ELEVATION 980

ARP 423954.244 -832504.603

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	424101.37	-832619.35	1B	1159		179	32635	8795
TREE	424059.46	-832624.90	1B	1166		186	32344	8920
GROUND	424102.58	-832634.77	1A	1178		198	32146	9655
TANK	424127.91	-832535.00	1B	1153		173	35232	9749
TANK	424125.73	-832355.91	1B	1133		153	3459	10587
TREE	424124.84	-832643.39	1B	1177		197	32711	11771
TREE	424054.88	-832723.68	1B	1168		188	30635	12066
TREE	424112.30	-832721.04	2C	1157		177	31348	12895
TREE	424046.46	-832743.17	1B	1154		174	30003	12970
TREE	424101.87	-832744.04	2C	1209		229	30554	13737
TREE	424057.69	-832756.38	2C	1223		243	30236	14349
TREE	423803.49	-832707.67	2C	1167		187	22522	14501
TREE	424054.97	-832804.75	2C	1221		241	30034	14794



TOUCHDOWN ZONE RUNWAY	ELEVATION
9L	975
27R	975
9R	980
27L	974

OAKLAND-PONTIAC AIRPORT

PONTIAC, MICHIGAN

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)