

OBSTRUCTION DATA SHEET

ODS 940
GROSSE ILE MUNICIPAL AIRPORT AIRPORT
DETROIT / GROSSE ILE, MICHIGAN

DIGITIZED FROM

OC 940
SURVEYED 8 OCTOBER 1992
4TH 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.

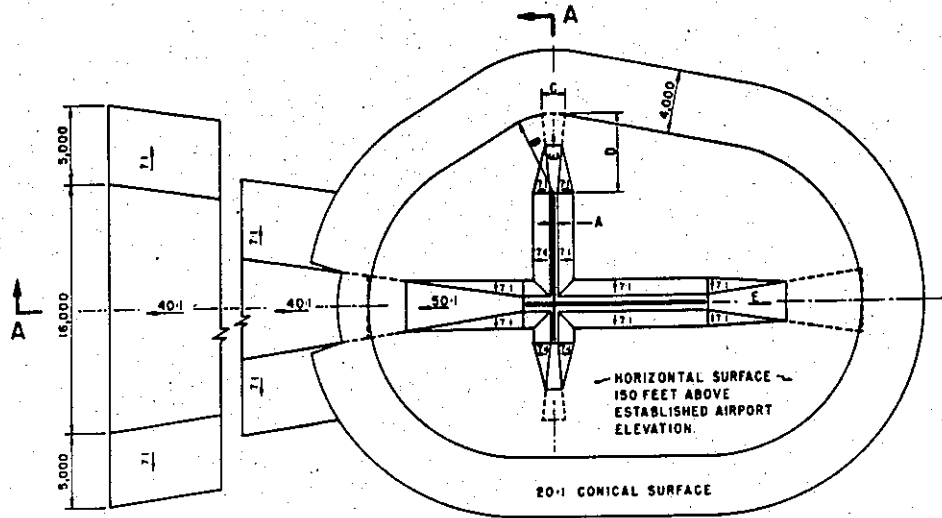
ODS information is arranged as follows:

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.

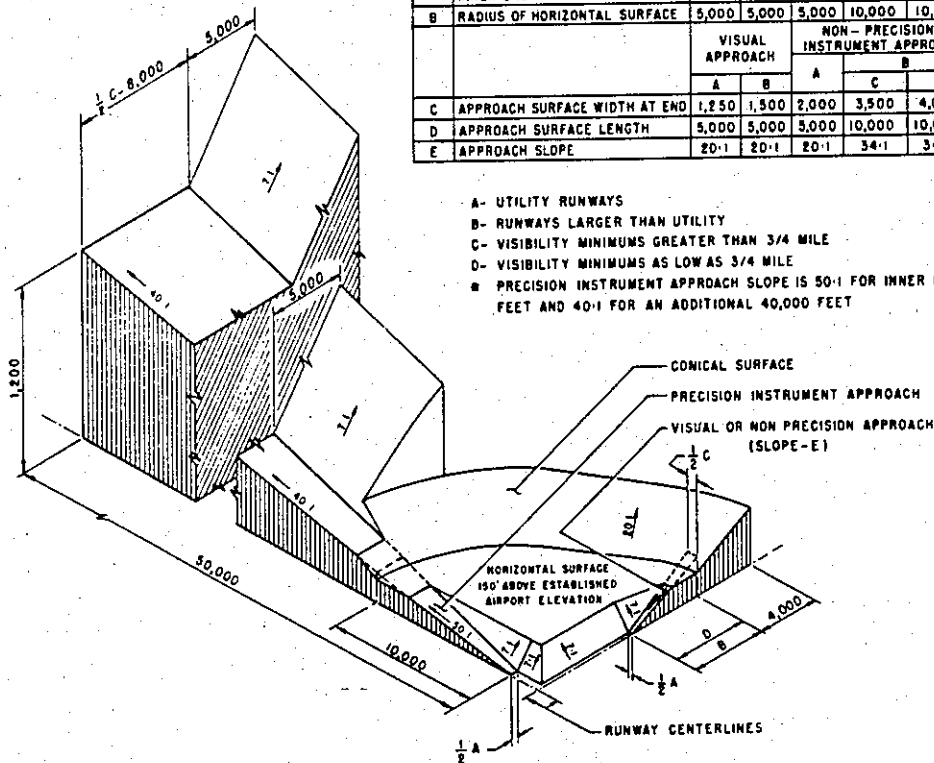
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

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
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	3,000	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

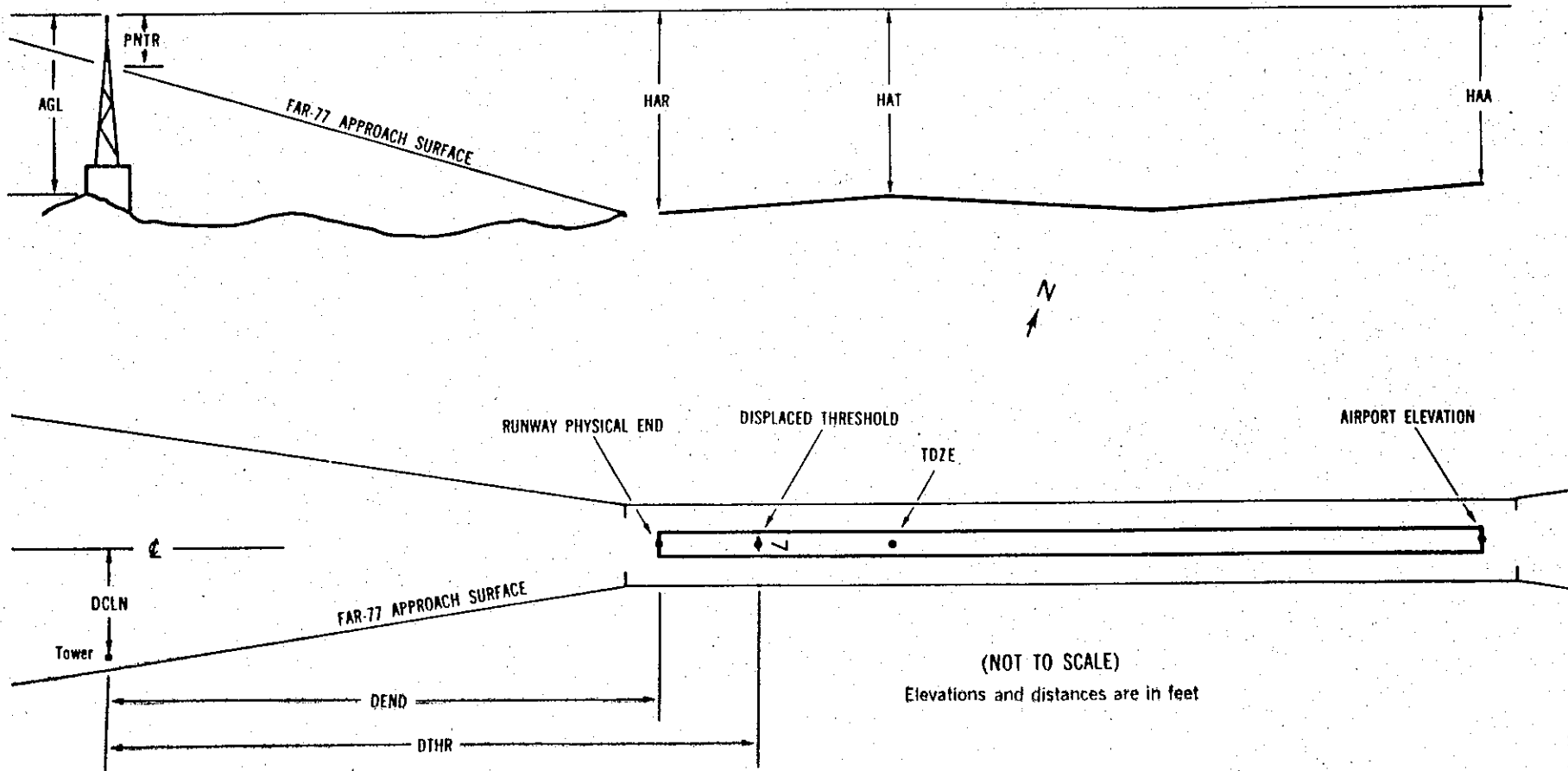
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXXX.XXX ⁴	XXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXXXX.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
XXXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXX
XXXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXX



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 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 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 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

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AIRPORT ELEVATION 591

17 AV 581/ 581 420611.437 -831000.148 1664726.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	420630.26	-831006.27	1A	660		79	79	69	1960		14R	-9

35 AV 579/ 580 420535.353 -830948.776 3464733.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	420532.44	-830948.02	1A	590		11	10	-1	300		12L	6

4 C 577/ 420534.949 -830945.443 302004. 579/ 590 420539.792 -830941.638

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	420617.52	-830909.01	1A	599		22	9	8	-5107	-4539	194R	9
WSK	420615.82	-830915.48	1A	607		30	17	16	-4712	-4144	140L	16
GROUND	420540.98	-830944.41	1A	582		5	-8	-9	-566	2	241L	3
WSK	420537.15	-830945.62	1A	590		13	0	-1	-186	382	124L	12
BUSH	420532.44	-830948.02	1A	590		13	0	-1	317	885	39L	10
TREE	420529.69	-830952.34	1A	632		55	42	41	722	1290	180L	40
TREE	420527.54	-830952.20	1A	623		46	33	32	904	1472	61L	26
TREE	420524.50	-830956.96	1A	686		109	96	95	1351	1919	215L	75
TREE	420523.20	-830955.43	1A	662		85	72	71	1407	1975	49L	50

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AIRPORT ELEVATION 591

22 SUPLC 590/ 420617.390 -830912.092 2102027. 591/ 591 420610.243 -830917.710

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	420537.15	-830945.62	1A	590		0	-1	-1	-4792	-3954	124R	12
GROUND	420540.98	-830944.41	1A	582		-8	-9	-9	-4412	-3574	241R	3
WSK	420615.82	-830915.48	1A	607		17	16	16	-266	573	140R	16
BUSH	420617.52	-830909.01	1A	599		9	8	8	129	967	194L	9
TREE	420623.46	-830903.01	1A	615		25	24	24	876	1714	281L	5
TREE	420626.13	-830907.71	1A	620		30	29	29	930	1769	162R	9
TREE	420627.65	-830909.35	1A	653		63	62	62	1001	1839	346R	40
TREE	420627.84	-830908.43	1A	651		61	60	60	1053	1891	296R	36
TREE	420627.41	-830903.80	1A	653		63	62	62	1191	2030	27L	34
TREE	420629.59	-830908.36	1A	662		72	71	71	1208	2046	381R	42
TREE	420625.91	-830859.75	1A	663		73	72	72	1214	2053	368L	43
TREE	420629.48	-830905.04	1A	655		65	64	64	1325	2163	159R	32
TREE	420633.94	-830903.00	1A	666		76	75	75	1792	2630	255R	29
TREE	420633.61	-830854.88	1A	679		89	88	88	2072	2911	291L	34

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AIRPORT ELEVATION 591

ARP 420554.977 -830939.811

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
BUSH	420550.77	-830948.85	1A	608		17	24357	804
GROUND	420555.55	-830953.41	1A	582		-9	27915	1027
TREE	420546.68	-830931.11	1A	618		27	14759	1066
TREE	420548.38	-830927.77	1A	652		61	13219	1126
TREE	420557.88	-830923.29	1A	608		17	8242	1280
TREE	420549.19	-830956.83	1A	652		61	25126	1411
TREE	420556.08	-831000.07	1A	641		50	28010	1531
TREE	420559.40	-830917.13	1A	669		78	8119	1768
TREE	420541.04	-830954.05	1A	611		20	22316	1773
TREE	420602.65	-830918.35	1A	615		24	7020	1795
TREE	420600.64	-831003.99	1A	661		70	29327	1911
TREE	420553.75	-831005.36	1A	682		91	27219	1930
TREE	420541.64	-830958.33	1A	647		56	23157	1942
TREE	420534.99	-830941.27	1A	595		4	18906	2026
TREE	420533.96	-830935.66	1A	649		58	17737	2150
TREE	420535.87	-830953.74	1A	607		16	21430	2201
TREE	420533.33	-830952.62	1A	593		2	20947	2394
TREE	420606.03	-830911.08	1A	653		62	6840	2438
TREE	420608.45	-831007.36	1A	668		77	30917	2485
TREE	420609.27	-830911.73	1A	622		31	6138	2565
TREE	420612.49	-831006.80	1A	653		62	31704	2699
OL APBN	420622.78	-830949.20	1A	659		68	35152	2902
TREE	420528.73	-830956.66	1A	659		68	21133	2945
TREE	420616.87	-831005.55	1A	653		62	32448	2945
TREE	420619.32	-830917.98	1A	640		49	3943	2963
TREE	420619.45	-830916.46	1A	615		24	4123	3039
TREE	420618.66	-831005.08	1A	631		40	32731	3062
TREE	420617.16	-831007.85	1A	660		69	32243	3084
TREE	420614.27	-830905.96	1A	659		68	5833	3213
TREE	420621.88	-830914.32	1A	632		41	4112	3333
TREE	420623.46	-830915.39	1A	671		80	3833	3421

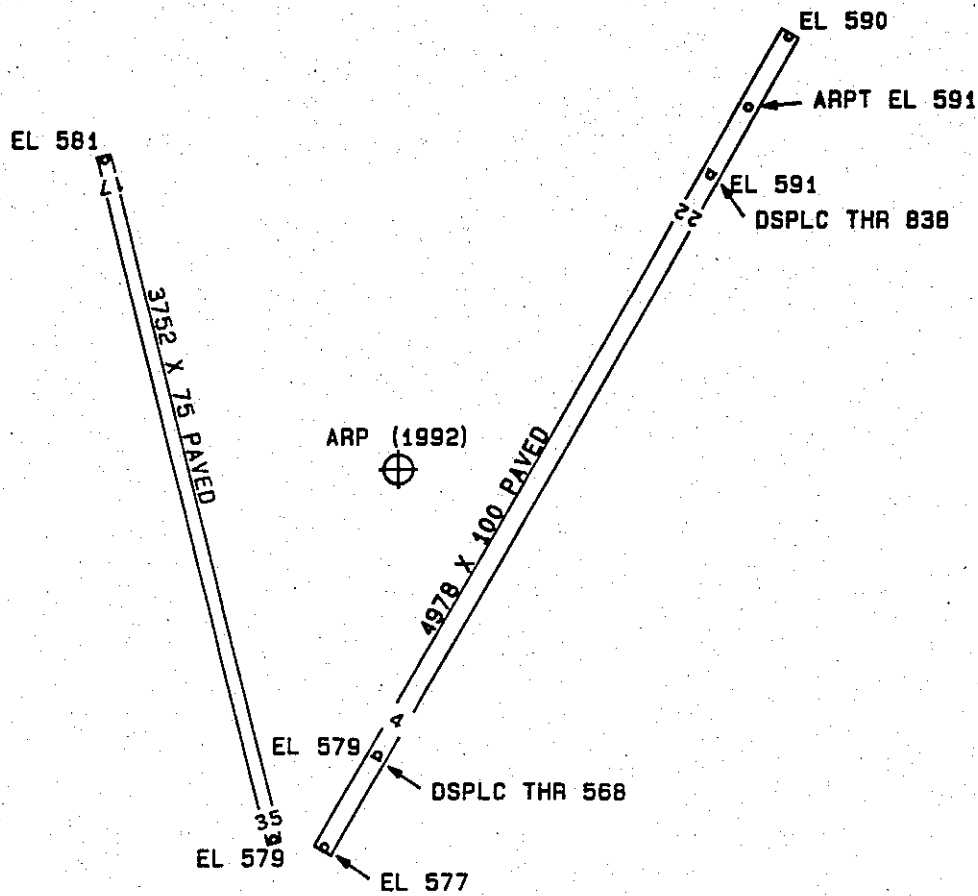
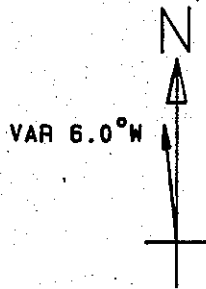
OC0940

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AIRPORT ELEVATION 591

ARP 420554.977 -830939.811

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG	BEARING	DISTANCE
TREE	420617.16	-830904.97	1A	645		54		5528	3455
TREE	420624.31	-831007.56	1A	636		45		33050	3632
CHY	420623.77	-831008.90	1A	619		28		32902	3647
TREE	420625.25	-830912.31	1A	644		53		4005	3700
POLE	420620.63	-830904.13	1A	613		22		5200	3738
TREE	420628.90	-831001.57	1A	635		44		34028	3806
TREE	420627.72	-830910.94	1A	659		68		3917	3965
TREE	420624.70	-830858.92	1A	661		70		5141	4308
ROD ON OL STACK	420718.64	-831050.55	1A	1145	565	554		33348	10007
OL ON TWR	420636.29	-831145.56	2A	869	291	278		29949	10361



TOUCHDOWN ZONE RUNWAY ELEVATION	
17	581
35	580
4	590
22	591

GROSSE ILE MUNICIPAL AIRPORT
 DETROIT/GROSSE ILE, MICHIGAN
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)