

OBSTRUCTION DATA SHEET

**ODS 711
KOKOMO MUNICIPAL AIRPORT
KOKOMO, INDIANA**

DIGITIZED FROM

**OC 711
SURVEYED OCTOBER 1990
7TH 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:

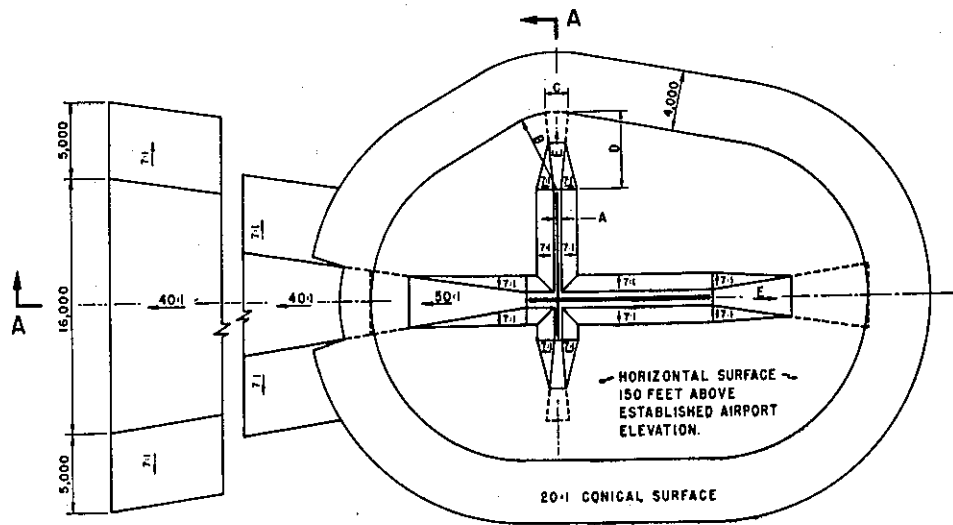
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

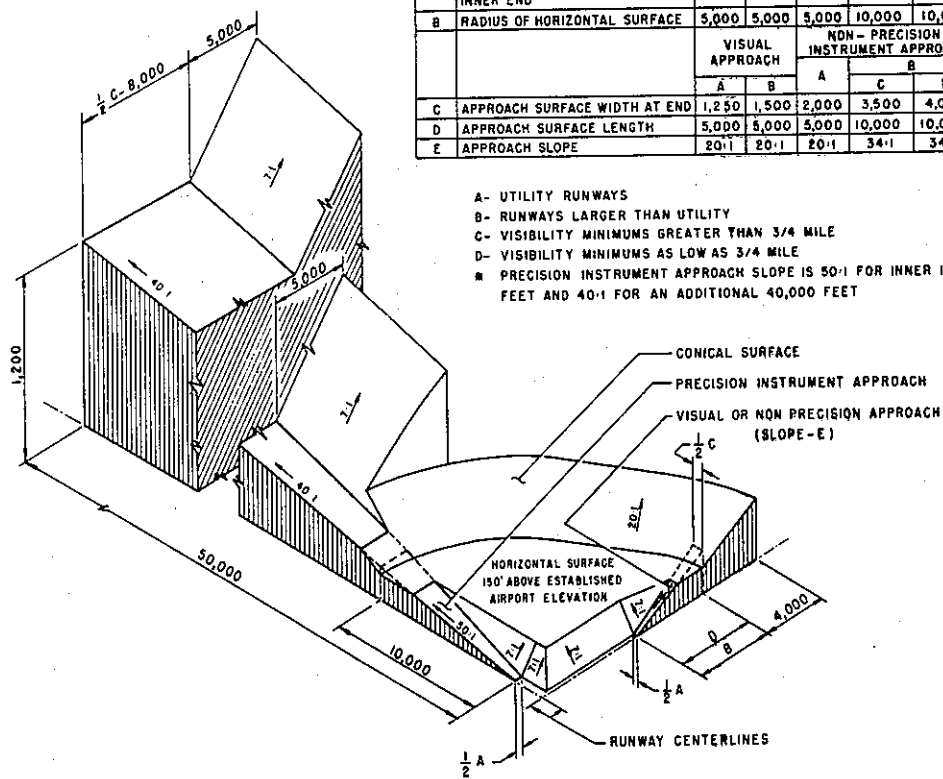
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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
		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

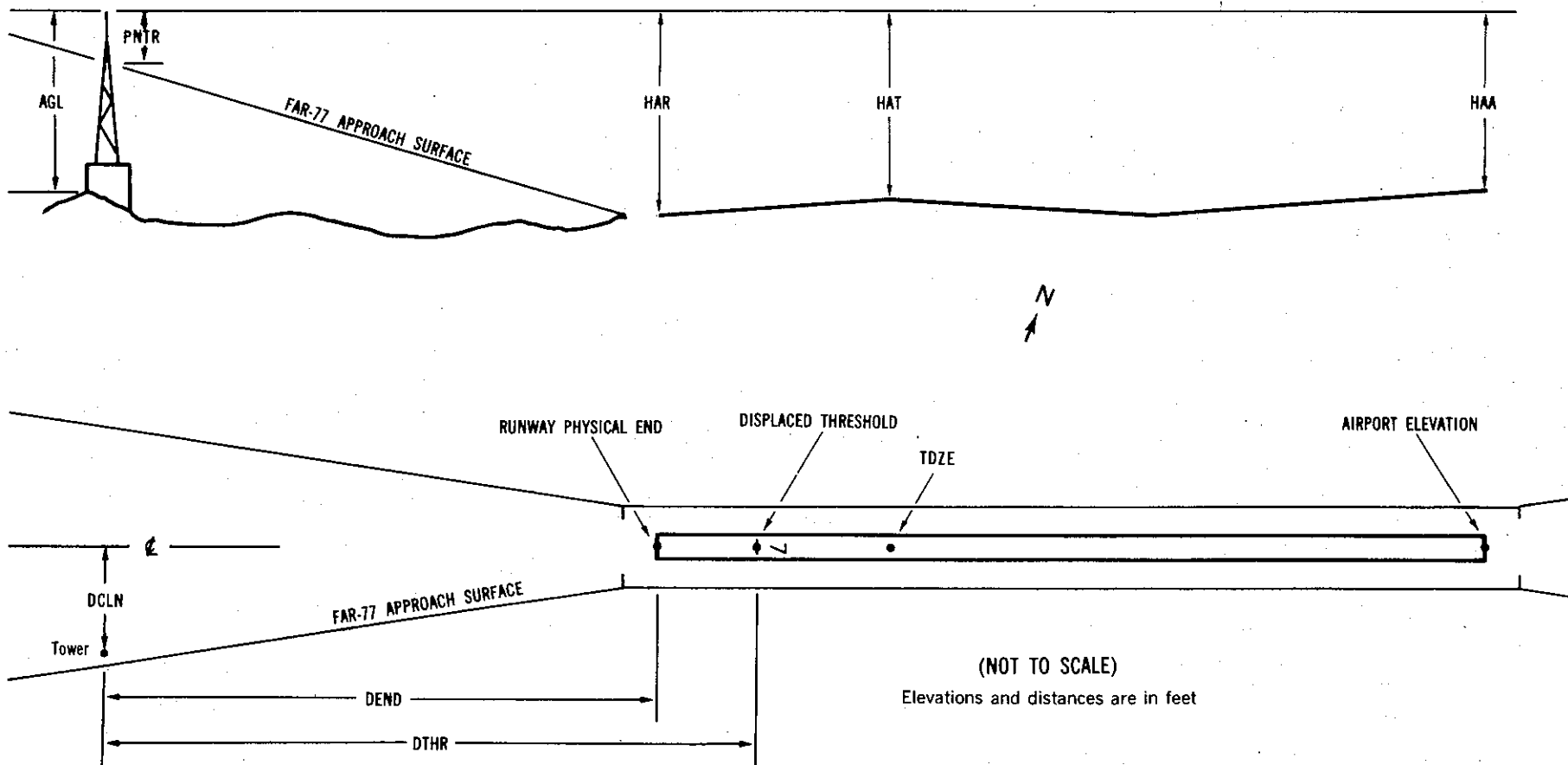
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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



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).

OC0711

AIRPORT ELEVATION 830

5 C 830/830 403121.281N 08604 2.274W 2245551

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL GLIDE SLOPE	403149.56	0860318.00	1A	869		39	39	39	-4441		399R	45
VORTAC	403139.87	0860328.86	1A	863		33	33	33	-3155		498R	36
ANT ON OL VORTAC MON POLE	403140.15	0860329.46	1A	869		39	39	39	-3142		445R	42
TREE	403128.36	0860346.97	1A	845		15	15	15	-1342		331R	19
TREE	403124.73	0860353.11	1A	836		6	6	6	-747		254R	8
SIGN	403121.96	0860403.58	1A	831		1	1	1	22		120L	1
ROAD (N)	403114.26	0860401.59	1A	841		11	11	11	465		539R	3
ROAD (N)	403121.59	0860411.45	1A	844		14	14	14	479		523L	6
OL LOCALIZER	403116.38	0860408.68	1A	837		7	7	7	701		0L	-8
TREE	403113.23	0860412.93	1A	869		39	39	39	1158		8L	11
TREE	403111.97	0860411.72	1A	876		46	46	46	1182		149R	17
TREE	403056.93	0860436.00	1A	888		58	58	58	3584		104L	-42

OC0711

AIRPORT ELEVATION 830

23 PIR 819/827 403157.660N 0860314.707W 0445622

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	403121.96	0860403.58	1A	831		12	4	1	-5223		120R	1
TREE	403124.73	0860353.11	1A	836		17	9	6	-4454		254L	8
TREE	403128.36	0860346.97	1A	845		26	18	15	-3859		331L	19
ANT ON OL VORTAC MON POLE	403140.15	0860329.46	1A	869		50	42	39	-2059		445L	42
VORTAC	403139.87	0860328.86	1A	863		44	36	33	-2046		498L	36
OL GLIDE SLOPE	403149.56	0860318.00	1A	869		50	42	39	-760		399L	46
TREE	403205.38	0860313.12	1A	835		16	8	5	640		465R	7
ROAD (N)	403206.52	0860313.54	1A	832		13	5	2	698		569R	3
TREE	403159.41	0860304.14	1A	838		19	11	8	701		453L	9
TREE	403202.71	0860304.42	1A	833		14	6	3	923		201L	-1
TREE	403205.55	0860307.23	1A	834		15	7	4	973		155R	-1
TREE	403209.37	0860310.82	1A	877		58	50	47	1051		625R	41
OL SILO	403208.49	0860308.92	1A	881		62	54	51	1091		458R	44
ROAD (N)	403206.60	0860302.80	1A	839		20	12	9	1290		12L	-2
SILO	403207.97	0860254.59	1A	868		49	41	38	1836		363L	16
TREE	403207.67	0860250.49	1A	885		66	58	55	2037		608L	29
TREE	403233.18	0860246.74	1A	916		97	89	86	4070		1011R	20
TREE	403237.52	0860229.12	1A	917		98	90	87	5341		358R	-5
TREE	403229.38	0860215.96	1A	946		127	119	116	5476		943L	21

14 A(V) 826/826 403157.576N 0860342.820W 3150756

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	403158.23	0860341.22	1A	827		1	1	-3	-41		134L	1
TREE	403206.66	0860352.63	1A	842		16	16	12	1186		111L	-33
ROD ON SILO	403218.59	0860408.55	1A	878		52	52	48	2909		92L	-83
TREE	403229.49	0860433.19	1A	938		112	112	108	5033		478R	-130

OC0711

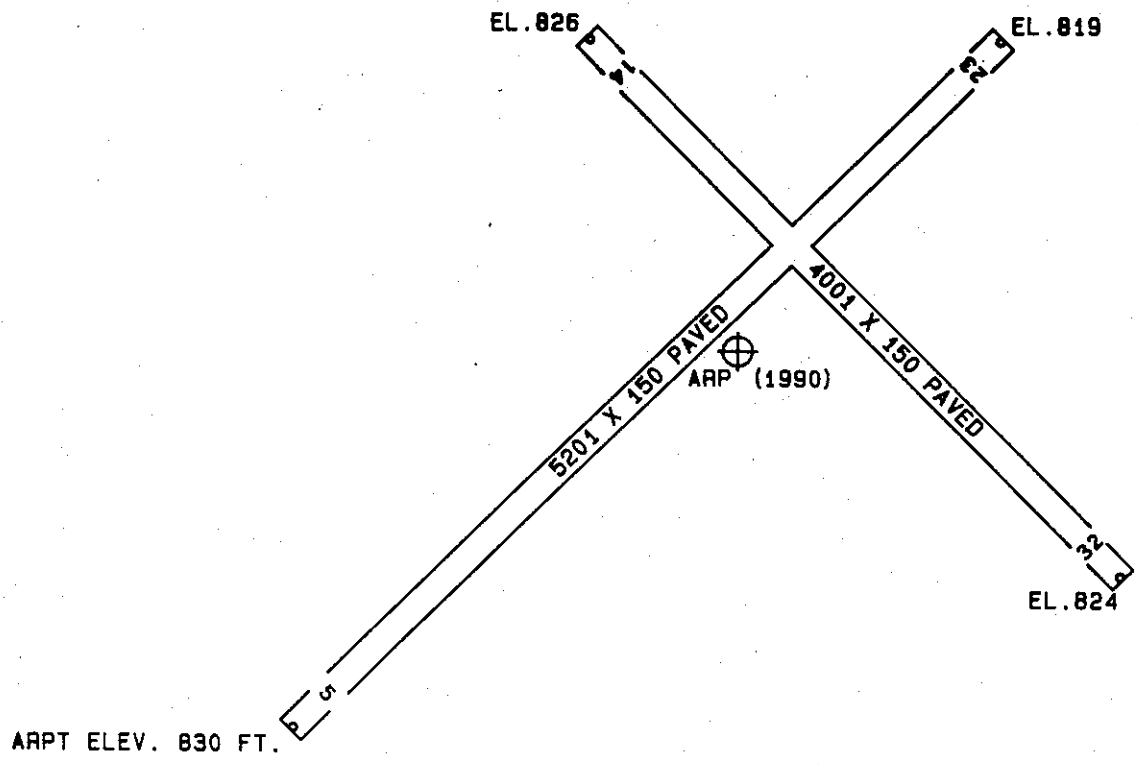
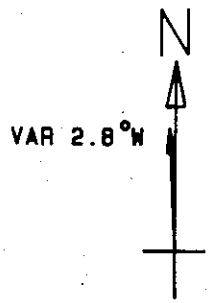
AIRPORT ELEVATION 830

32 A(V) 824/826 403129.556N 08603 6.274W 1350820

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	403158.23	0860341.22	1A	827		3	1	-3	-3960		134R	1
TREE	403115.78	0860244.34	1A	890		66	64	60	2184		217R	-33

ARP 403141.252N 0860332.429W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
TREE	403139.77	0860348.94	1A	889		59	266	5	1284
TREE	403138.28	0860354.08	1A	901		71	262	36	1699
TREE	403128.13	0860315.61	1A	884		54	138	27	1857
TREE	403128.28	0860310.73	1A	879		49	130	53	2129
HANGAR	403202.08	0860339.72	1A	843		13	347	51	2182
TREE	403134.69	0860303.85	1A	868		38	109	33	2305
ROD ON OL AIRPORT BEACON	403203.77	0860324.37	1A	874		44	18	4	2362
TREE	403131.47	0860303.61	1A	849		19	116	46	2435
BUSH	403130.40	0860303.77	1A	831		1	119	12	2471
TREE	403201.36	0860354.06	1A	847		17	323	26	2633
TREE	403156.99	0860304.64	1A	870		40	56	12	2672
TREE	403205.33	0860318.10	1A	860		30	27	13	2676
POLE	403206.22	0860344.58	1A	852		22	342	26	2696
TREE	403202.28	0860354.06	1A	866		36	324	41	2705
TREE	403127.52	0860409.39	1A	902		72	246	51	3175
TREE	403112.63	0860350.91	1A	933		103	209	2	3229
SILO	403204.56	0860402.95	1A	887		57	317	50	3335
OL POLE	403122.59	0860410.97	1A	905		75	240	25	3525
TREE	403122.52	0860411.76	1A	905		75	240	50	3580
TREE	403207.89	0860403.32	1A	880		50	321	18	3600
SILO	403118.10	0860242.32	1A	880		50	123	59	4524
ANTENNA	403056.20	0860409.66	1A	947		117	215	2	5390



TOUCHDOWN ZONE RUNWAY ELEVATION	
5	830
23	827
14	826
32	826

KOKOMO MUNICIPAL AIRPORT
KOKOMO, INDIANA
(NOT TO SCALE)