

OBSTRUCTION DATA SHEET

**ODS 5178
ST. LOUIS REGIONAL AIRPORT
ALTON / ST. LOUIS, ILLINOIS**

DIGITIZED FROM

**OC 5178
SURVEYED OCTOBER 1991
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:

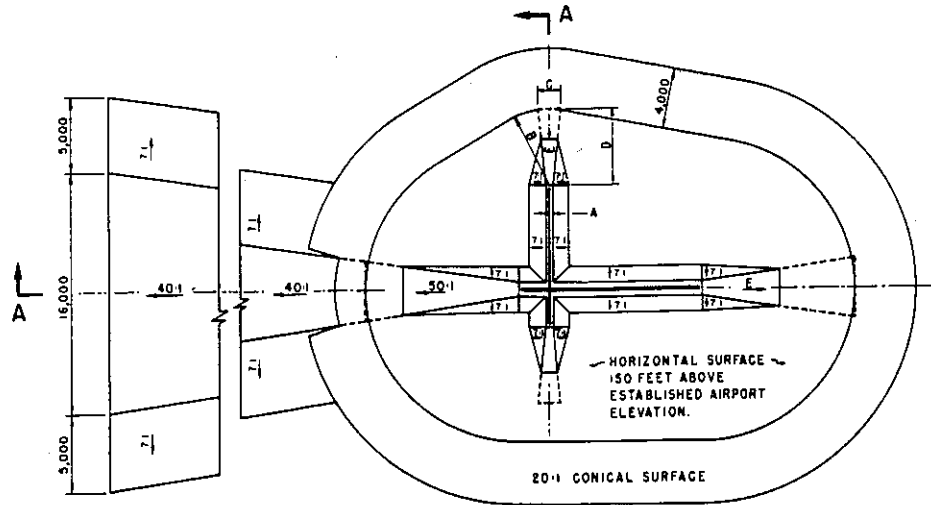
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

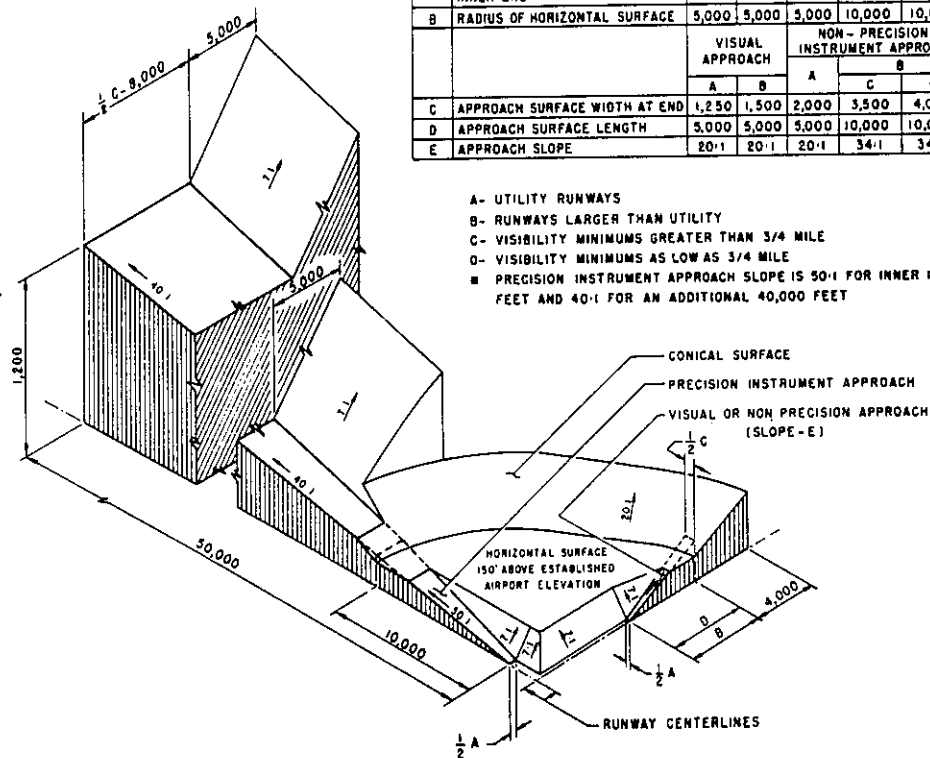
A(V)	Utility runway - visual approach only
A(NP)	Utility runway - nonprecision instrument approach
B(V)	Nonutility runway - visual approach only
C	Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D	Nonutility runway - nonprecision instrument approach 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	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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
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

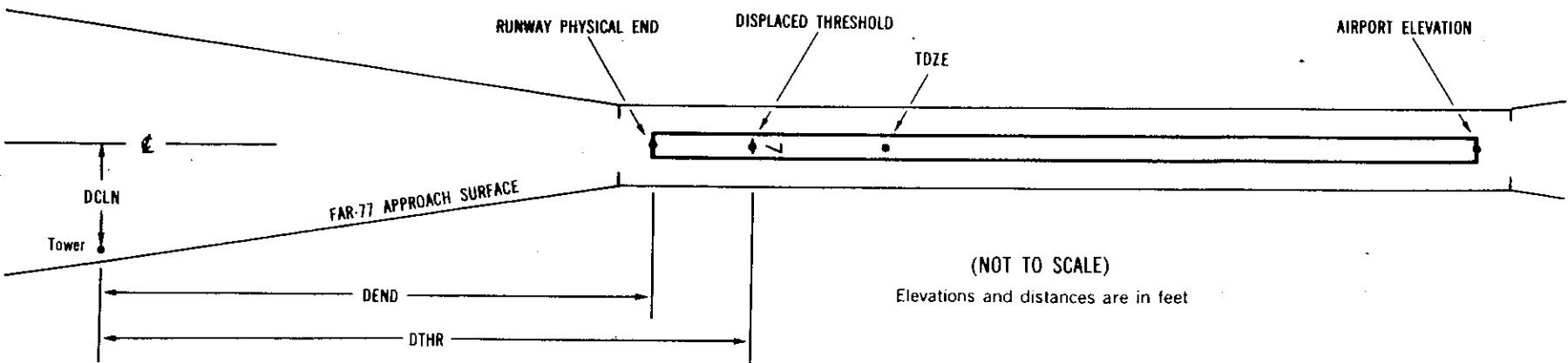
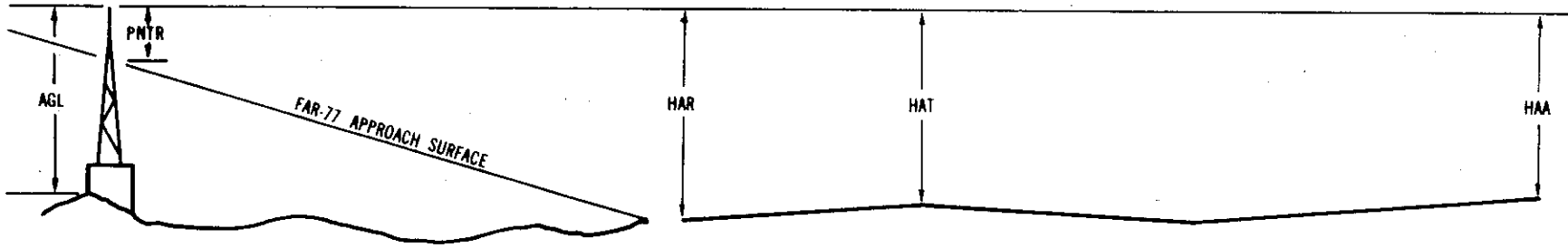
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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
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).

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AIRPORT ELEVATION 544

11 C 538/540 385342.711N 0900317.507W 2932051

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	385317.95	0900152.96	1A	560		22	20	16	-7131		350L	29
WINDSOCK	385324.91	0900216.27	1A	534		-4	-6	-10	-5159		266L	4
LIGHTED WINDSOCK	385337.46	0900317.86	1A	556		18	16	12	-185		499R	18
OL FLOODLIGHT ON HANGAR	385340.52	0900327.85	1A	559		21	19	15	663		527R	7
OL DME	385343.69	0900327.10	1A	554		16	14	10	735		210R	1
OL LOCALIZER	385345.65	0900326.21	1A	546		8	6	2	750		1L	-8
TREE	385343.40	0900335.29	1A	579		41	39	35	1318		494R	8
TREE	385343.98	0900337.22	1A	585		47	45	41	1482		500R	9
TREE	385350.70	0900334.69	1A	578		40	38	34	1568		204L	-1
TREE	385352.61	0900358.19	1A	615		77	75	71	3350		355R	-16

29 PIR 527/531 385310.968N 0900143.449W 1132150

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LIGHTED WINDSOCK	385337.46	0900317.86	1A	556		29	25	12	-7916		499L	18
WINDSOCK	385324.91	0900216.27	1A	534		7	3	-10	-2942		266R	4
OL ON GLIDE SLOPE	385317.95	0900152.96	1A	560		33	29	16	-970		350R	29
BUILDING	385310.77	0900129.51	1A	531		4	0	-13	1020		419R	-12
POLE	385303.59	0900131.86	1A	535		8	4	-9	1138		322L	-11
TREE	385304.64	0900113.55	1A	568		41	37	24	2424		350R	-3
TREE	385305.36	0900106.52	1A	577		50	46	33	2906		638R	-4
TREE	385257.64	0900101.68	1A	583		56	52	39	3567		72R	-11

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AIRPORT ELEVATION 544

17 C 533/542 385354.335N 09003 8.712W 3532047

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	385404.50	0900310.03	1A	560		27	18	16	1033		16L	2
TREE	385406.21	0900310.94	1A	560		27	18	16	1213		36R	-3
TREE	385406.79	0900306.75	1A	572		39	30	28	1234		300L	9

35 SUPLC 543/544 385250.521N 0900259.189W 1732053

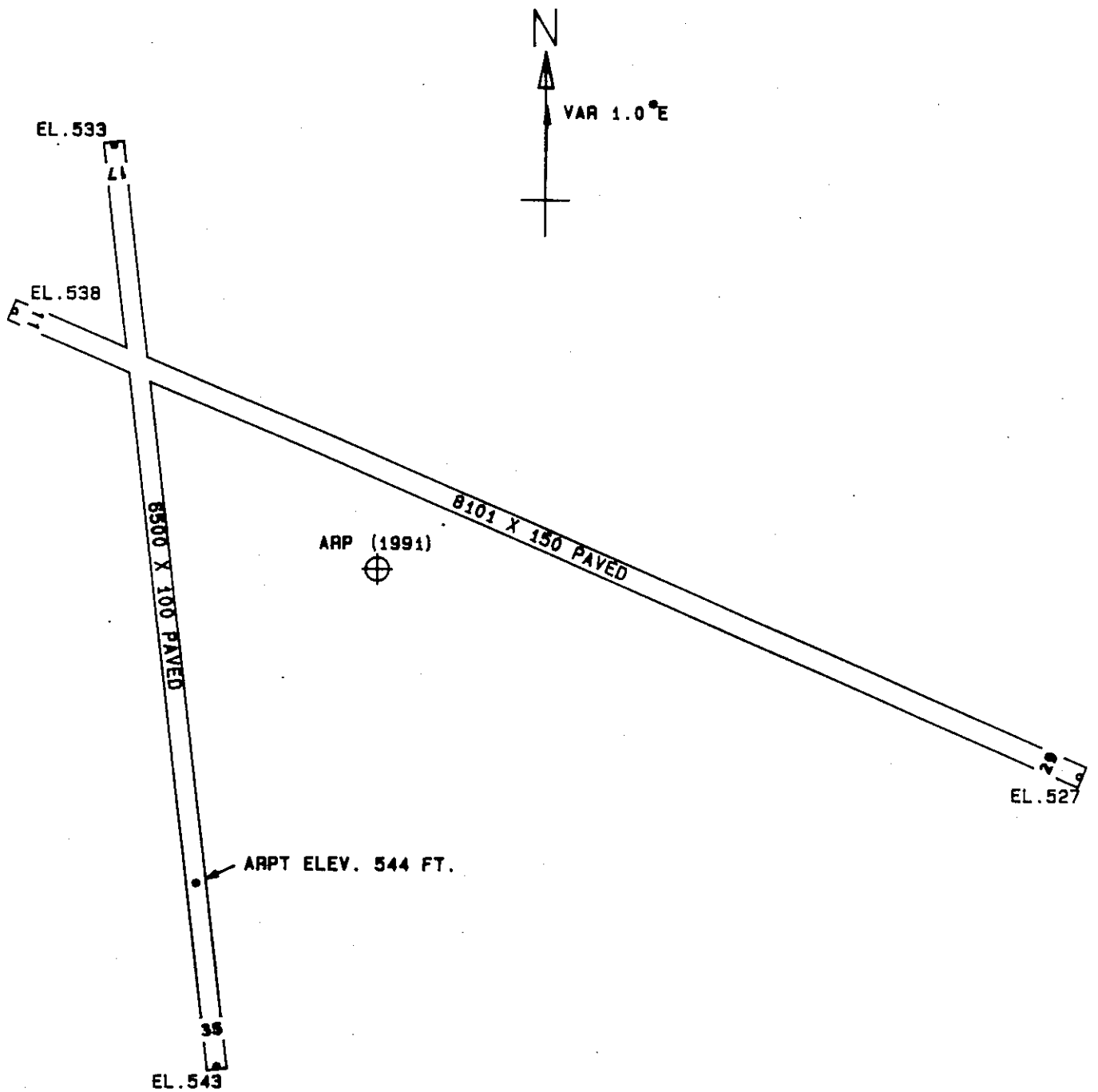
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	385237.55	0900252.10	1A	581		38	37	37	1368		404R	4
TREE	385234.11	0900301.66	1A	586		43	42	42	1626		387L	1
TREE	385233.04	0900251.27	1A	598		55	54	54	1829		417R	7
TREE	385227.83	0900259.19	1A	606		63	62	62	2280		266L	2
TREE	385227.39	0900257.22	1A	607		64	63	63	2343		117L	1
TREE	385226.76	0900300.68	1A	612		69	68	68	2375		396L	5
TREE	385226.59	0900252.04	1A	606		63	62	62	2470		281R	-4
TREE	385212.38	0900257.00	1A	625		82	81	81	3853		275L	-25

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AIRPORT ELEVATION 544

ARP 385324.877N 0900245.377W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON ANEMOMETER	385328.55	0900256.82	1A	560		16	291 18	978
ROD ON OL ATCT	385327.59	0900316.33	1A	621		77	275 24	2463
OL BUILDING	385305.93	0900311.99	1A	606		62	226 40	2847
ANTENNA ON AIRPORT BEACON	385331.76	0900320.88	1A	615		71	282 56	2892
FENCE	385248.58	0900253.17	1A	544		0	188 32	3724
TREE	385338.47	0900330.72	1A	603		59	290 0	3840
FENCE	385247.23	0900302.52	1A	544		0	198 36	4043
TREE	385322.70	0900153.54	1A	575		31	92 5	4105
LIGHT STANDARD	385401.80	0900316.39	1A	560		16	325 43	4469
TREE	385403.31	0900317.38	1A	596		52	325 57	4639
TREE	385238.65	0900250.02	1A	603		59	183 29	4691
TREE	385404.34	0900317.57	1A	591		47	326 29	4735
TREE	385405.82	0900316.51	1A	586		42	328 17	4818
GROUND	385306.11	0900148.69	1A	537		-7	111 57	4868
TREE	385236.19	0900249.27	1A	606		62	182 34	4935
TREE	385317.38	0900140.10	1A	575		31	97 21	5217
TREE	385304.02	0900143.36	1A	555		11	112 17	5338
TREE	385232.78	0900303.47	1A	621		77	194 11	5462
POLE	385312.84	0900127.72	1A	554		10	100 12	6260
TREE	385314.18	0900118.17	1A	597		53	97 55	6980
TREE	385311.32	0900117.84	1A	575		31	100 12	7057
OL ON WATER TANK	385436.88	0900245.62	1B	666		122	358 51	7285
TREE	385309.99	0900112.76	1A	576		32	100 37	7477



TOUCHDOWN ZONE	RUNWAY ELEVATION
11	540
29	531
17	542
35	544

ST. LOUIS REGIONAL AIRPORT
 ALTON / ST. LOUIS, ILLINOIS
 (NOT TO SCALE)