

# OBSTRUCTION DATA SHEET

ODS 935  
SUSSEX COUNTY AIRPORT  
GEORGETOWN, DELAWARE

DIGITIZED FROM

OC 935  
SURVEYED SEPTEMBER 1989  
4TH EDITION



PREPARED AND DISTRIBUTED BY  
THE NATIONAL OCEAN SERVICE  
U.S. DEPARTMENT OF COMMERCE  
FOR THE FEDERAL AVIATION ADMINISTRATION

## 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:

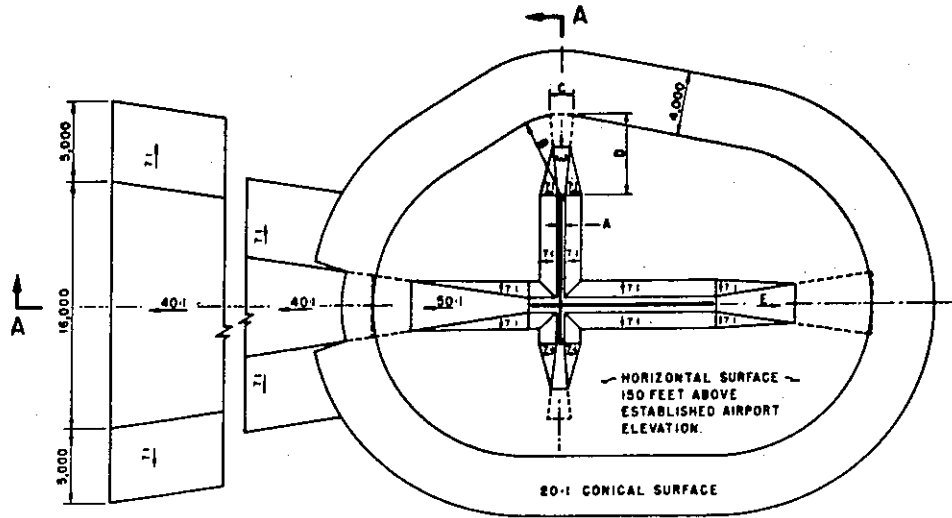
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

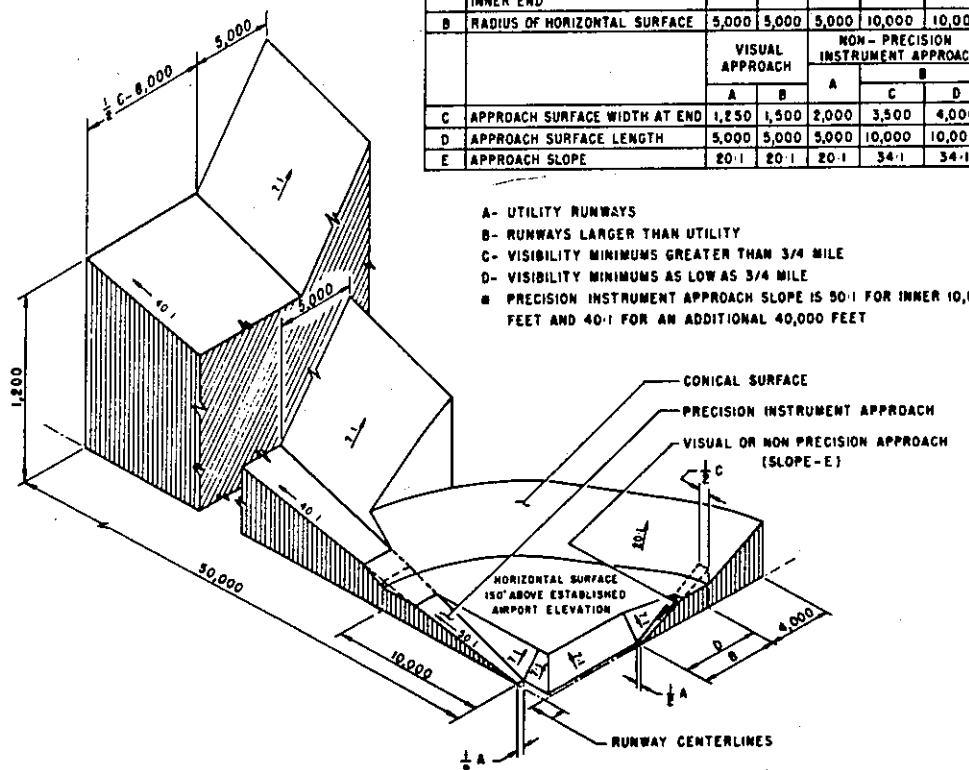
A(V) ..... Utility runway - visual approach only  
 A(NP) .... Utility runway - nonprecision instrument approach  
 B(V) ..... Nonutility runway - visual approach only  
 C ..... Nonutility runway - nonprecision instrument approach with  
           visibility minimums greater than 3/4 mile  
 D ..... 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	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 30:1 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

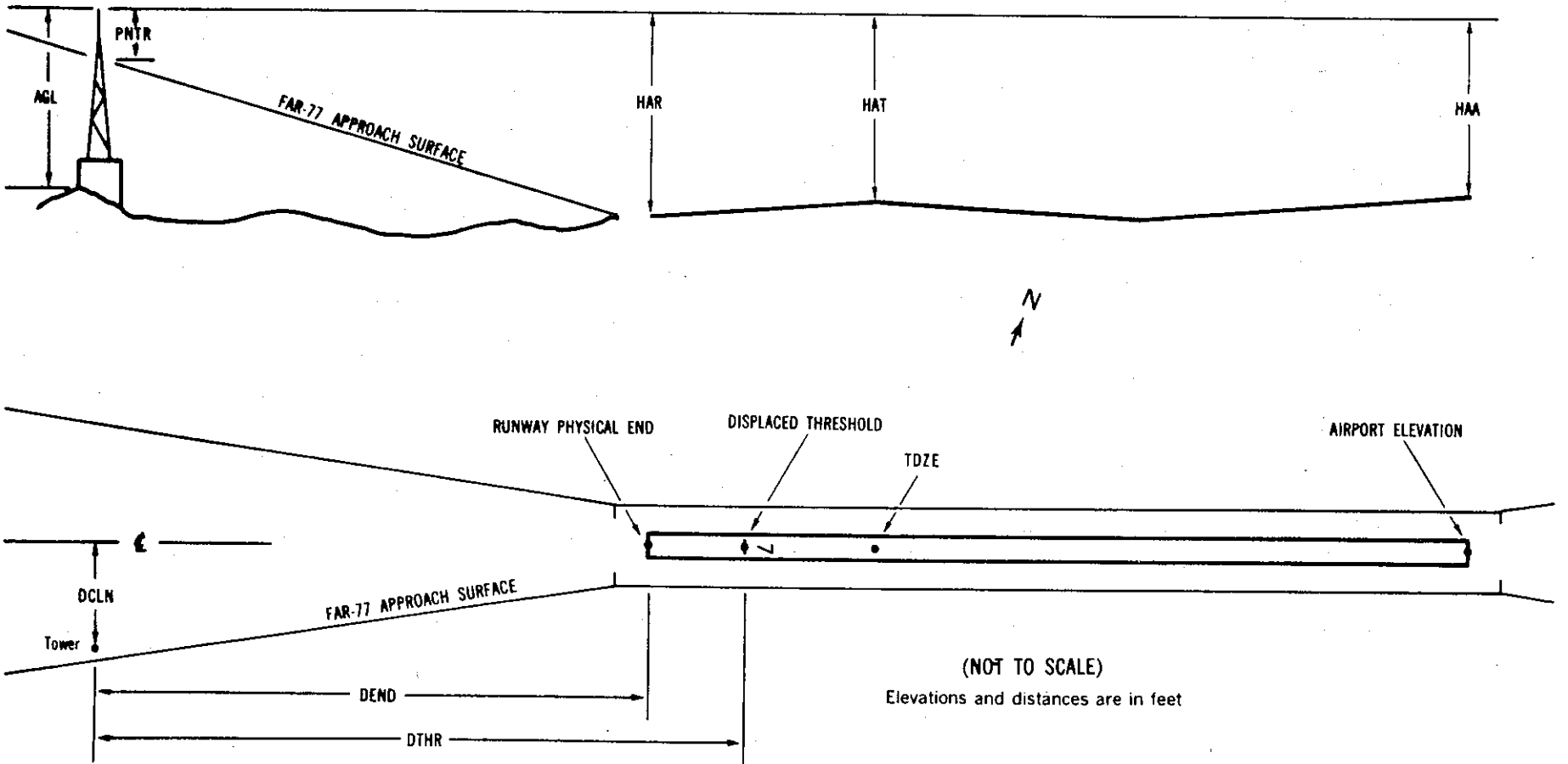
OC XXXX

AIRPORT ELEVATION XXXX

x<sup>1</sup> x<sup>2</sup> XXXX/XXXX<sup>3</sup> XXXXXX.XXX<sup>4</sup> XXXXXXXX.XXX<sup>4</sup> XXXXXXXX<sup>5</sup> XXXX/XXXX<sup>6</sup> XXXXXX.XXX<sup>7</sup> XXXXXXXX.XXX<sup>7</sup>

OBJECT	LAT	LONG	A <sup>8</sup>	ELEV <sup>9</sup>	AGL <sup>10</sup>	HAR <sup>11</sup>	HAT <sup>11</sup>	HAA <sup>11</sup>	DEND <sup>12</sup>	DTHR <sup>12</sup>	DCLN <sup>12</sup>	PNTR <sup>13</sup>
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

\*\*\*\*\*



## 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  $\pm 10$  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 51

4 PIR 49/51 384102.197N 0752154.804W 2125442

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	384147.86	0752124.00	1A	107		58	56	56	-5205		460L	58
TREE	384142.88	0752114.26	1A	113		64	62	62	-5202		462R	64
BUSH	384146.27	0752122.21	1A	63		14	12	12	-5147		253L	14
TREE	384146.20	0752125.56	1A	113		64	62	62	-4997		472L	64
TREE	384140.68	0752116.00	1A	106		57	55	55	-4940		467R	57
WINDSOCK	384123.08	0752144.78	1A	73		24	22	22	-2205		481L	22
POST	384105.87	0752154.24	1A	52		3	1	1	-337		164L	3
TREE	384100.43	0752151.04	1A	126		77	75	75	-12		348R	77
POLE	384052.97	0752156.16	1A	76		27	25	25	842		417R	14
TREE	384051.24	0752157.29	1A	117		68	66	66	1038		437R	51
TREE	384056.53	0752208.89	1A	123		74	72	72	1088		626L	56
TREE	384051.14	0752202.57	1A	114		65	63	63	1274		91R	44
TREE	384049.41	0752200.42	1A	130		81	79	79	1328		329R	58
TREE	384053.38	0752208.69	1A	132		83	81	81	1347		440L	60
TREE	384047.82	0752207.26	1A	114		65	63	63	1758		39L	34
TREE	384047.48	0752214.68	1A	110		61	59	59	2106		514L	23
TREE	384039.41	0752211.67	1A	122		73	71	71	2662		129R	24
TREE	384040.54	0752223.71	1A	138		89	87	87	3085		734L	31
TREE	384037.12	0752218.60	1A	136		87	85	85	3156		206L	28
TREE	384032.70	0752219.77	1A	143		94	92	92	3581		40L	26
ANTENNA ON OL TOWER	384001.25	0752238.89	1A	215		166	164	164	7076		414R	28
ANTENNA ON OL TOWER	383950.73	0752239.25	1A	206		157	155	155	7985		969R	1

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AIRPORT ELEVATION 51

22 C 49/51 384143.683N 0752120.542W 0325504

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	384100.43	0752151.04	1A	126		77	75	75	-4988		348L	77
POST	384105.87	0752154.24	1A	52		3	1	1	-4663		164R	3
WINDSOCK	384123.08	0752144.78	1A	73		24	22	22	-2794		481R	22
TREE	384140.68	0752116.00	1A	106		57	55	55	-59		467L	57
TREE	384146.20	0752125.56	1A	113		64	62	62	-3		472R	64
BUSH	384146.27	0752122.21	1A	63		14	12	12	147		253R	14
TREE	384142.88	0752114.26	1A	113		64	62	62	202		462L	64
TREE	384147.86	0752124.00	1A	107		58	56	56	206		460R	58
BUSH	384147.19	0752120.93	1A	67		18	16	16	282		219R	16
TREE	384150.17	0752122.56	1A	109		60	58	58	464		492R	52
TREE	384152.21	0752119.19	1A	108		59	57	57	783		379R	42
TREE	384148.98	0752110.08	1A	125		76	74	74	901		405L	55
TREE	384148.45	0752108.41	1A	129		80	78	78	927		545L	59
TREE	384155.38	0752110.87	1A	109		60	58	58	1410		1L	24
TREE	384200.66	0752100.08	1A	109		60	58	58	2323		429L	-2
TREE	384216.82	0752101.50	1A	131		82	80	80	3635		554R	-19

13 A(V) 50/ 384122.196N 0752136.410W 3025523

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ANT & APBCN ON OL BLDG	384128.83	0752146.46	1A	101		51		50	1033		130L	9
TREE	384129.83	0752152.56	1A	112		62		61	1494		48R	-3

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AIRPORT ELEVATION 51

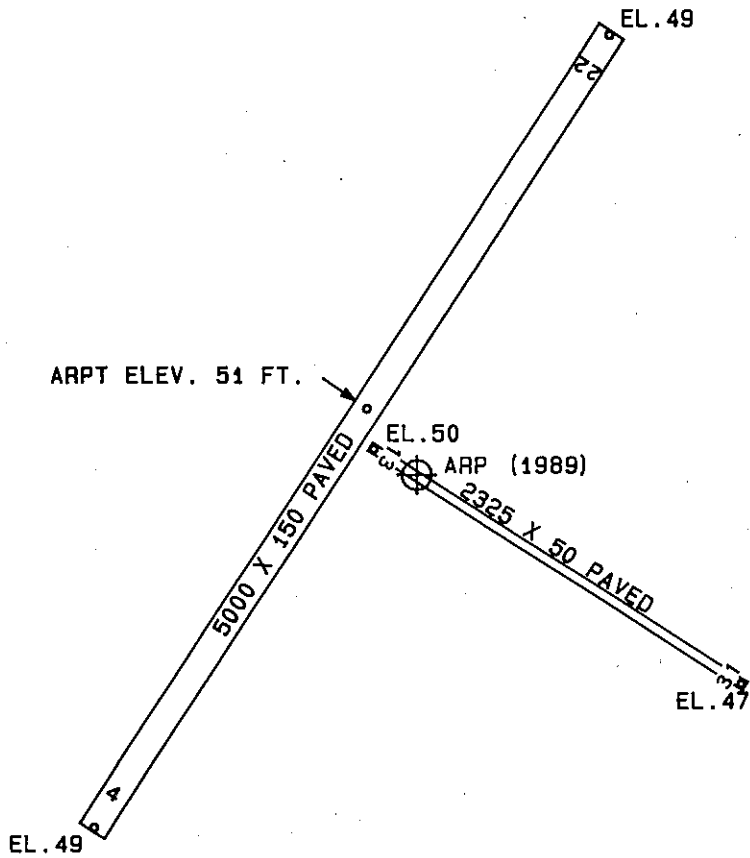
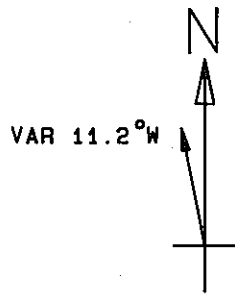
31 A(V) 47/ 384109.707N 0752111.802W 1225538

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	384101.79	0752056.26	1A	61		14		10	1470		2L	-49
TREE	384055.97	0752048.34	1A	121		74		70	2317		155L	-32

ARP 384120.722N 0752133.368W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
LIGHTED WIND TEE	384123.64	0752145.85	1A	59		8	297	49	1033
TREE	384113.98	0752158.19	1A	129		78	262	5	2083
TREE	384059.83	0752148.89	1A	144		93	221	26	2446
ANTENNA ON OL TOWER	384142.82	0752147.17	1A	216		165	345	7	2489
ANTENNA ON OL TOWER	384143.95	0752145.04	1A	206		155	349	42	2525
TREE	384106.00	0752204.85	1A	138		87	250	23	2907
TREE	384103.10	0752205.27	1A	125		74	246	2	3095
POLE	384053.32	0752153.09	1A	76		25	220	38	3183
ANTENNA ON OL MICROWAV TR	384132.41	0752317.56	1A	248	200	197	289	21	8345
OL ON TOWER	384052.11	0752338.28	1B	203		152	264	55	10319
ANTENNA ON OL WATER TANK	383936.34	0752217.47	1B	197		146	209	32	11124
ANTENNA ON OL MICROWAV TR	384143.97	0752351.82	2A	290	241	239	293	18	11227
OL RADIO TOWER	384218.15	0752409.72	2A	205		154	306	20	13690
OL RADIO MAST	384228.56	0752421.62	2A	405	355	354	308	26	15001





TOUCHDOWN ZONE RUNWAY ELEVATION	
4	51
22	51

SUSSEX COUNTY AIRPORT  
 GEORGETOWN, DELAWARE  
 (NOT TO SCALE)