

OBSTRUCTION DATA SHEET

ODS 5275
ESSEX COUNTY AIRPORT
CALDWELL, NEW JERSEY

DIGITIZED FROM

OC 5275
SURVEYED MAY 1993
4TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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.

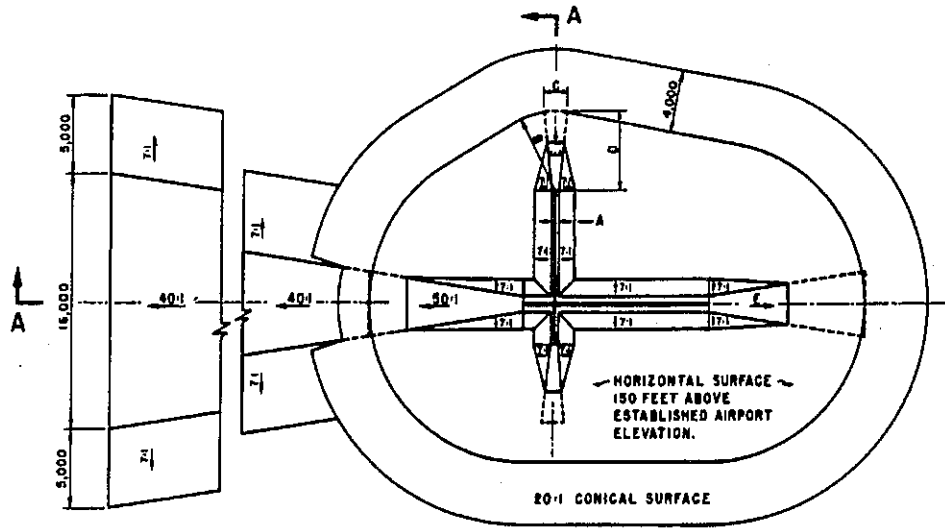
ODS information is arranged as follows:

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:

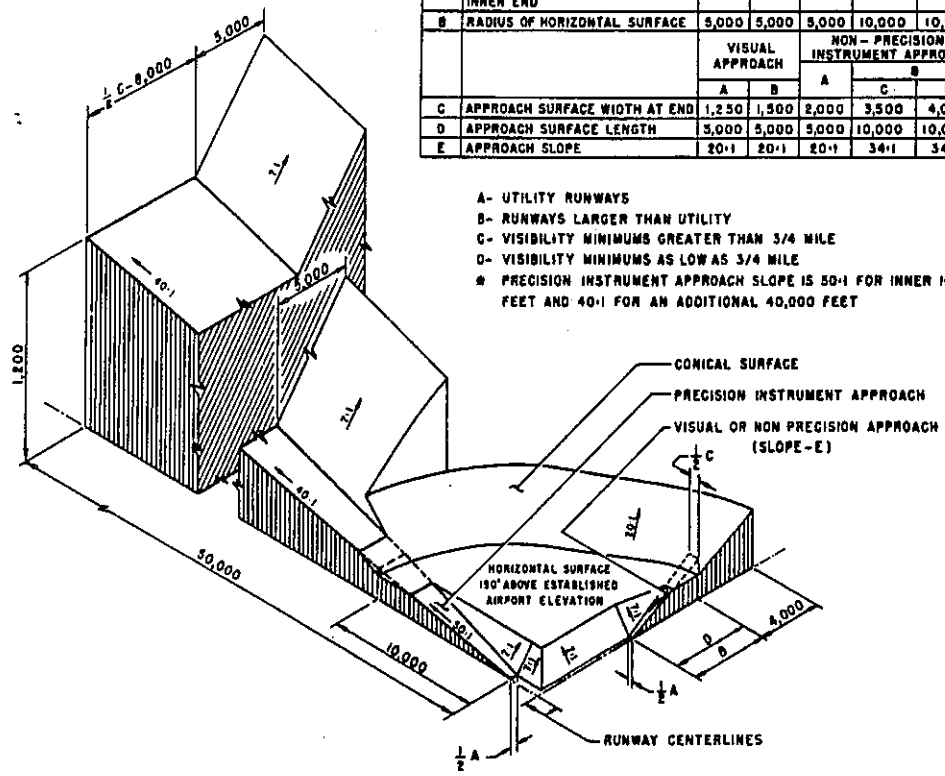
- A(V) Utility runway - visual approach only
- A(NP) Utility runway - nonprecision instrument approach
- B(V) Nonutility runway - visual approach only
- C Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D Nonutility runway- nonprecision instrument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

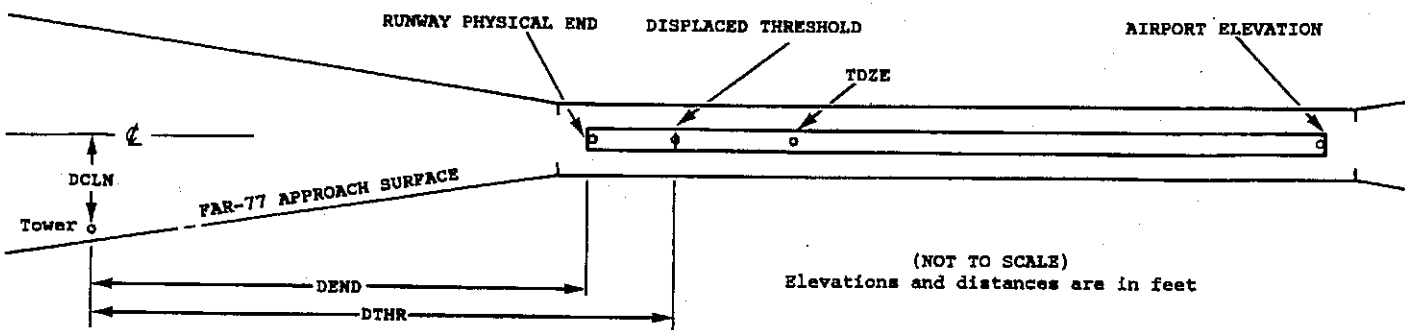
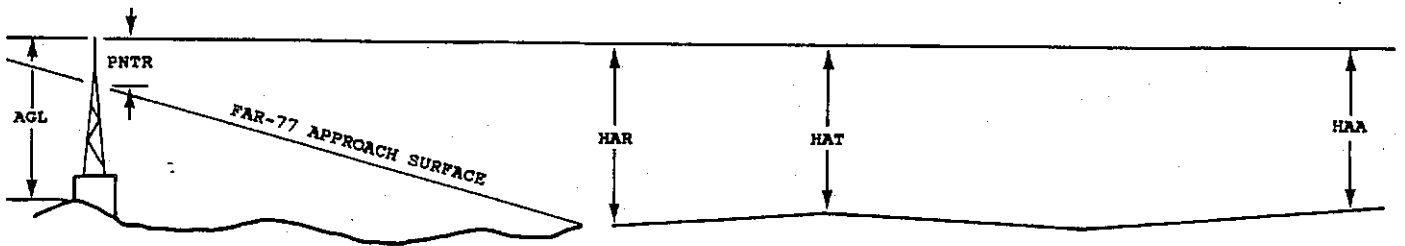
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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

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



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

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AIRPORT ELEVATION 173

4 AV 173/ 405203.921 -741710.831 293524. 173/ 173 405207.108 -741708.447

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	405244.03	-741639.38	1A	182		9	9	9	-4723	-4352	97R	9
BUSH	405245.10	-741642.39	1A	182		9	9	9	-4703	-4332	158L	9
TREE	405243.50	-741644.95	1A	216		43	43	43	-4465	-4094	249L	43
TREE	405223.39	-741659.96	1A	223		50	50	50	-2125	-1754	247L	50
TREE	405218.77	-741703.45	1A	217		44	44	44	-1587	-1216	249L	44
TREE	405210.30	-741709.76	1A	229		56	56	56	-602	-231	247L	56
TREE	405203.21	-741714.49	1A	214		41	41	41	202	573	208L	41
BUSH	405202.02	-741711.97	1A	183		10	10	10	211	581	19R	10
TREE	405200.50	-741709.73	1A	227		54	54	54	259	630	244R	51
OL BLDG	405202.20	-741714.75	1A	198		25	25	25	300	671	175L	20
OL ON LOC	405200.79	-741713.18	1A	183		10	10	10	365	736	0R	2
OL ON POLE	405158.75	-741714.55	1A	214		41	41	41	596	967	10R	21
VENT ON BLDG	405157.42	-741713.45	1A	219		46	46	46	671	1042	150R	23
TREE	405154.12	-741715.18	1A	242		69	69	69	1028	1399	199R	28
TREE	405155.18	-741720.05	1A	237		64	64	64	1119	1490	179L	18
TREE	405151.63	-741718.86	1A	262		89	89	89	1386	1757	77R	30
TREE	405150.72	-741722.41	1A	281		108	108	108	1601	1972	114L	38
TREE	405147.53	-741718.39	1A	290		117	117	117	1729	2100	314R	41
TREE	405147.33	-741722.33	1A	307		134	134	134	1896	2267	61R	49
TREE	405141.77	-741721.82	1A	332		159	159	159	2366	2737	373R	51

22 ANP 173/ 405243.039 -741641.565 2093543. 173/ 173 405241.878 -741642.434

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	405210.30	-741709.76	1A	229		56	56	56	-3950	-3815	247R	56
TREE	405218.77	-741703.45	1A	217		44	44	44	-2965	-2830	249R	44
TREE	405223.39	-741659.96	1A	223		50	50	50	-2427	-2292	247R	50
TREE	405243.50	-741644.95	1A	216		43	43	43	-88	47	249R	43
BUSH	405245.10	-741642.39	1A	182		9	9	9	150	285	158R	9
BUSH	405244.03	-741639.38	1A	182		9	9	9	170	306	97L	9
OL ON BLDG	405250.27	-741639.03	1A	200		27	27	27	732	867	192R	1
TREE	405252.37	-741638.68	1A	211		38	38	38	931	1066	274R	2
TREE	405250.61	-741632.61	1A	218		45	45	45	1006	1141	220L	5
TREE	405255.86	-741628.25	1A	236		63	63	63	1633	1768	248L	-8
TREE	405259.64	-741631.69	1A	239		66	66	66	1835	1970	170R	-15

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AIRPORT ELEVATION 173

9 AV 170/ 405237.566 -741712.870 830827. 170/ 173 405237.762 -741710.728

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	405236.49	-741715.36	1A	217		47	44	44	203	369	86R	47
TREE	405237.36	-741716.78	1A	218		48	45	45	301	467	15L	43
BLDG	405235.90	-741717.81	1A	194		24	21	21	397	563	122R	15
LT ON BLDG	405237.56	-741719.44	1A	196		26	23	23	501	667	59L	11
POLE	405235.37	-741719.93	1A	202		32	29	29	565	731	156R	14
TREE	405236.99	-741721.75	1A	217		47	44	44	685	850	23L	23
TREE	405237.48	-741726.94	1A	238		68	65	65	1074	1240	121L	25
TREE	405235.92	-741729.29	1A	226		56	53	53	1272	1438	15R	3

27 AV 173/ 405241.954 -741624.783 2630858. 172/ 173 405240.979 -741635.471

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	405241.00	-741620.56	1A	191		18	18	18	311	1137	135L	13
TREE	405241.60	-741618.31	1A	242		69	69	69	489	1316	94L	55
TREE	405243.32	-741615.51	1A	256		83	83	83	724	1551	52R	57
TREE	405241.12	-741614.56	1A	250		77	77	77	770	1597	177L	49
TREE	405244.45	-741613.71	1A	262		89	89	89	874	1701	149R	55
TREE	405243.87	-741612.05	1A	252		79	79	79	994	1821	76R	39
STACK ON BLDG	405242.27	-741609.97	1A	221		48	48	48	1134	1961	104L	1
TREE	405243.31	-741603.76	1A	272		99	99	99	1620	2447	57L	28
TREE	405242.52	-741554.74	1A	323		150	150	150	2298	3125	218L	45
TREE	405244.70	-741553.97	1A	304		131	131	131	2383	3210	6L	22
TREE	405246.05	-741537.45	1A	353		180	180	180	3659	4486	22L	7
TREE	405247.52	-741533.38	1A	356		183	183	183	3987	4814	88R	-6

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AIRPORT ELEVATION 173

ARP 405230.802 -741652.884

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	405229.43	-741657.97	1A	203		30	26328	414
OL ON HANGAR	405228.27	-741647.20	1A	197		24	13325	506
OL ON AMOM	405236.12	-741651.34	1A	210		37	2522	551
OL ON LTD WSK	405236.37	-741654.90	1A	198		25	35736	584
HANGAR (UNDER CONST)	405224.27	-741648.43	1A	206		33	16540	744
OL ON APBN	405232.51	-741703.49	1*	232		59	29456	833
ANT ON OL ATCT	405233.79	-741640.33	1A	261		88	8535	1011
TREE	405234.31	-741707.16	1A	245		72	30058	1153
TREE	405242.37	-741653.79	1A	250		77	936	1173
TREE	405242.75	-741650.45	1A	245		72	2146	1224
ANT ON HANGAR	405218.14	-741654.55	1A	216		43	19841	1287
TREE	405242.02	-741701.75	1A	251		78	34202	1324
TREE	405240.95	-741705.23	1A	209		36	33017	1398
OL WDI ON BLDG	405237.31	-741632.89	1A	214		41	7946	1671
TREE	405235.28	-741714.00	1A	237		64	29837	1684
TREE	405247.03	-741646.07	1A	271		98	3039	1724
TREE	405246.92	-741643.30	1A	258		85	3717	1790
VENT ON BLDG	405213.30	-741658.82	1A	204		31	20726	1829
TREE	405244.04	-741634.36	1A	253		80	5943	1954
TREE	405245.07	-741635.36	1A	236		63	5559	1974
TREE	405244.99	-741634.37	1A	255		82	5743	2021
TREE	405213.67	-741707.32	1A	225		52	22536	2058
TREE	405244.22	-741629.33	1A	239		66	6605	2262
TREE	405239.51	-741720.65	1A	225		52	30526	2308
TREE	405208.16	-741703.48	1A	202		29	21233	2432
TREE	405239.29	-741622.90	1A	220		47	8232	2458
GROUND	405240.55	-741623.51	1A	178		5	7923	2462
TREE	405238.53	-741725.07	1A	255		82	30033	2593
TREE	405206.35	-741704.77	1A	214		41	21315	2637
TREE	405223.63	-741618.53	1A	351		178	11822	2737
TREE	405244.62	-741620.89	1A	220		47	7321	2827
TREE	405206.81	-741713.76	1A	241		68	22626	2910
TREE	405245.36	-741617.37	1A	238		65	7437	3100
TREE	405202.36	-741707.86	1A	218		45	21447	3100
TREE	405201.15	-741709.02	1A	228		55	21526	3246
TREE	405159.77	-741707.90	1A	232		59	21310	3346
TREE	405212.59	-741612.94	1A	405		232	13359	3580
TREE	405241.07	-741604.69	1A	264		91	8718	3845
TREE	405158.97	-741721.82	1A	235		62	22736	3914
OL ANT	405211.92	-741743.22	1A	323		150	25642	4313
TREE	405152.63	-741724.89	1A	287		114	22528	4579

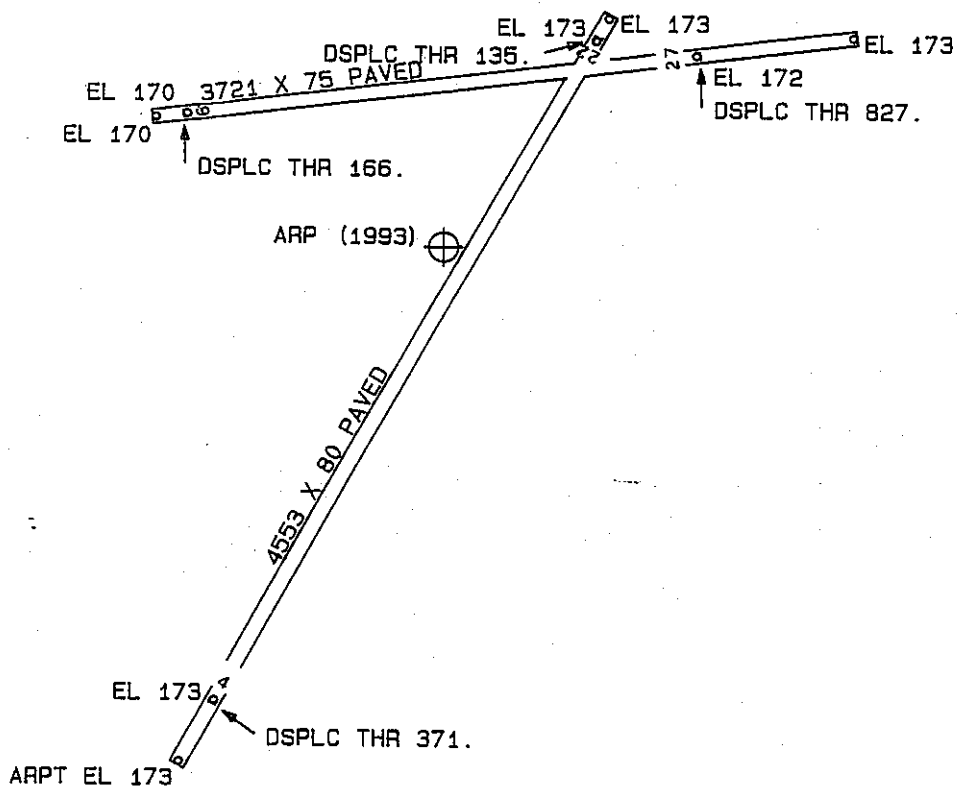
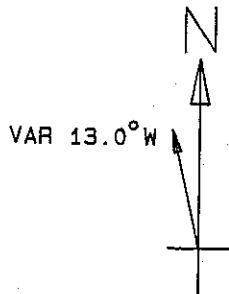
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AIRPORT ELEVATION 173

ARP 405230.802 -741652.884

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	405146.69	-741717.00	1A	295		122	21532	4833
TREE	405144.52	-741714.83	1A	324		151	21248	4977
TREE	405141.68	-741717.63	1A	343		170	21355	5322
ROD ON BLDG	405138.84	-741719.66	1A	342		169	21421	5647
TREE	405153.87	-741555.84	1C	528		355	14327	5759
TREE	405136.69	-741618.30	1A	473		300	16707	6087
TRMSN TWR	405128.36	-741621.40	1A	452		279	17203	6766
TREE	405226.67	-741524.79	1A	574		401	10631	6779
TREE	405239.70	-741517.22	1A	511		338	9600	7403
TRMSN TWR	405135.15	-741545.19	1A	604		431	15016	7665
TRMSN TWR	405116.75	-741719.44	1A	369		196	20813	7766
TREE	405214.42	-741503.11	1C	640		467	11406	8594
TREE	405238.42	-741500.77	1C	513		340	9752	8646
TREE	405124.11	-741522.25	1C	647		474	14705	9697
TREE	405054.48	-741605.52	1C	583		410	17231	10405
TREE	405154.62	-741444.26	1C	662		489	12319	10538



TOUCHDOWN ZONE RUNWAY ELEVATION	
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22	173
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ESSEX COUNTY AIRPORT
 CALDWELL, NEW JERSEY
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)