

OBSTRUCTION DATA SHEET

ODS 5760
SPACE CENTER EXECUTIVE AIRPORT
TITUSVILLE, FLORIDA

DIGITIZED FROM

OC 5760
SURVEYED FEBRUARY 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:

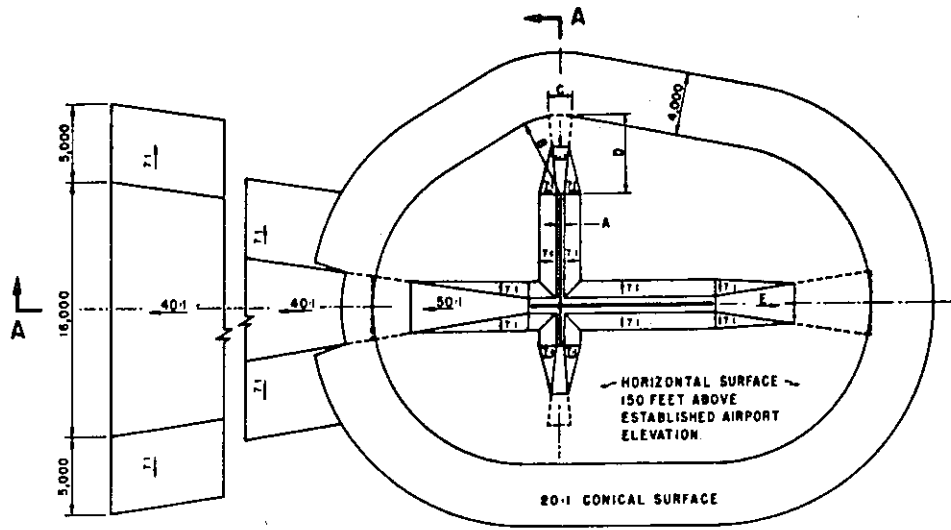
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

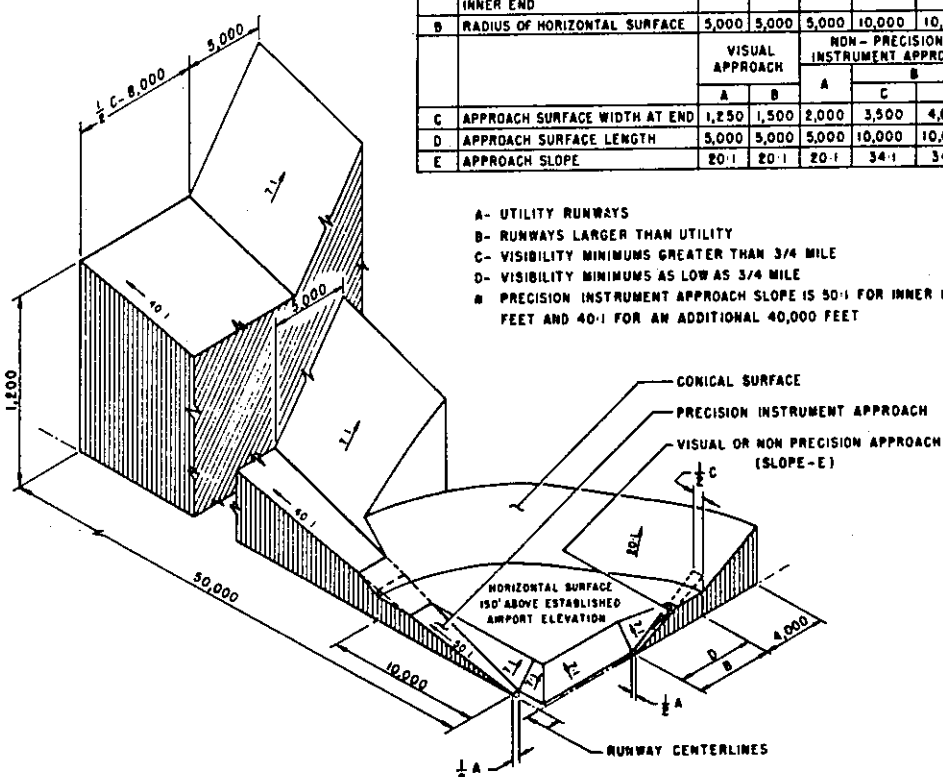
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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

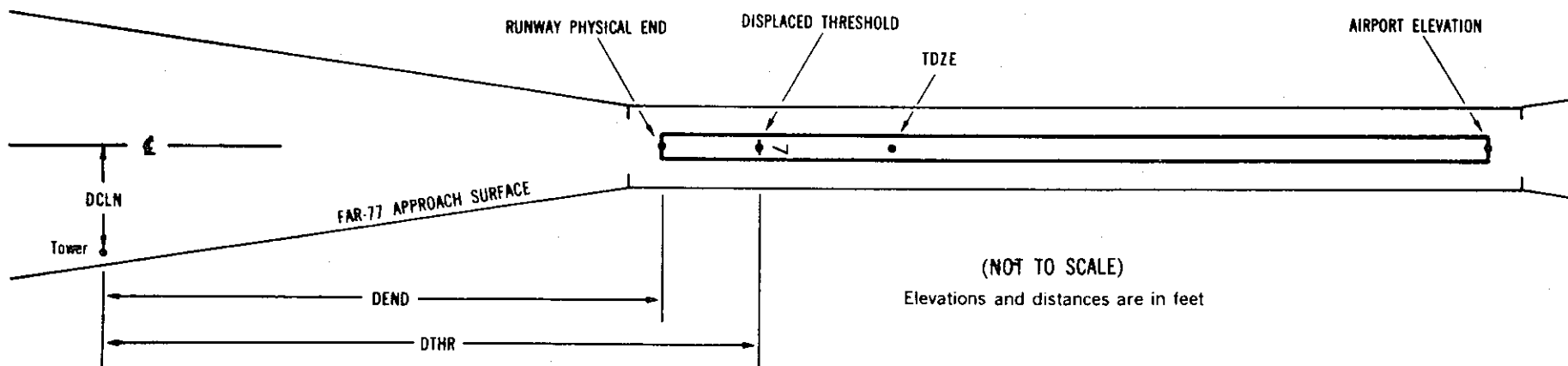
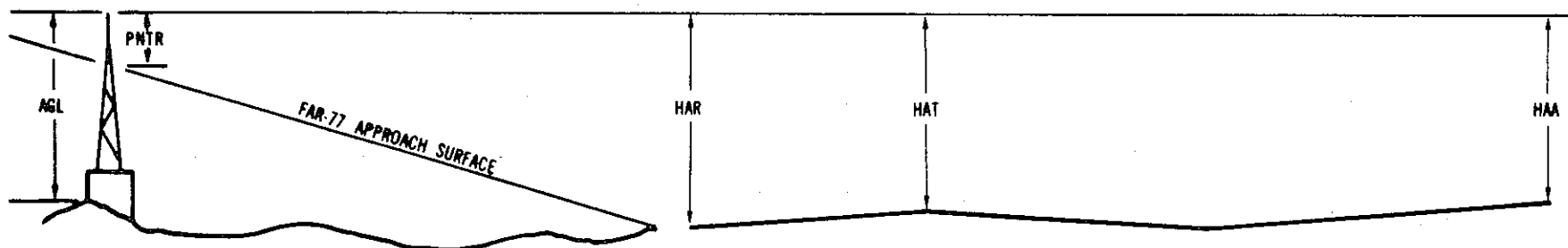
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x¹ x² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

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 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 35

9 SUPLC 33/33 283053.199N 0804839.242W 2690722

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	283054.36	0804844.65	1A	51		18	18	16	481		125L	10
TREE	283050.85	0804844.78	1A	51		18	18	16	498		230R	9

27 SUPLC 32/33 283053.953N 0804743.196W 0890749

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	283051.38	0804735.87	1A	62		30	29	27	649		270L	17
TREE	283055.75	0804735.41	1A	62		30	29	27	697		171R	15
TREE	283055.59	0804727.83	1A	83		51	50	48	1373		144R	16
TREE	283052.28	0804727.06	1A	92		60	59	57	1437		191L	24
TREE	283050.07	0804724.85	1A	99		67	66	64	1631		417L	25
TREE	283058.26	0804724.32	1A	103		71	70	68	1691		409R	27

18 C 31/33 283114.575N 0804749.436W 3590726

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GLIDE SLOPE	283026.00	0804752.24	1A	75		44	42	40	-4902		325R	41
WINDSOCK	283032.92	0804745.41	1A	47		16	14	12	-4212		295L	13
OL WIND TEE	283038.31	0804746.54	1A	42		11	9	7	-3666		202L	8
TREE	283117.18	0804743.58	1A	89		58	56	54	255		527L	56
TREE	283117.47	0804753.65	1A	45		14	12	10	298		372R	11
ANTENNA ON BUILDING	283124.42	0804752.00	1A	49		18	16	14	998		213R	-5

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AIRPORT ELEVATION 35

36 PIR 35/35 283015.168N 0804748.408W 1790726

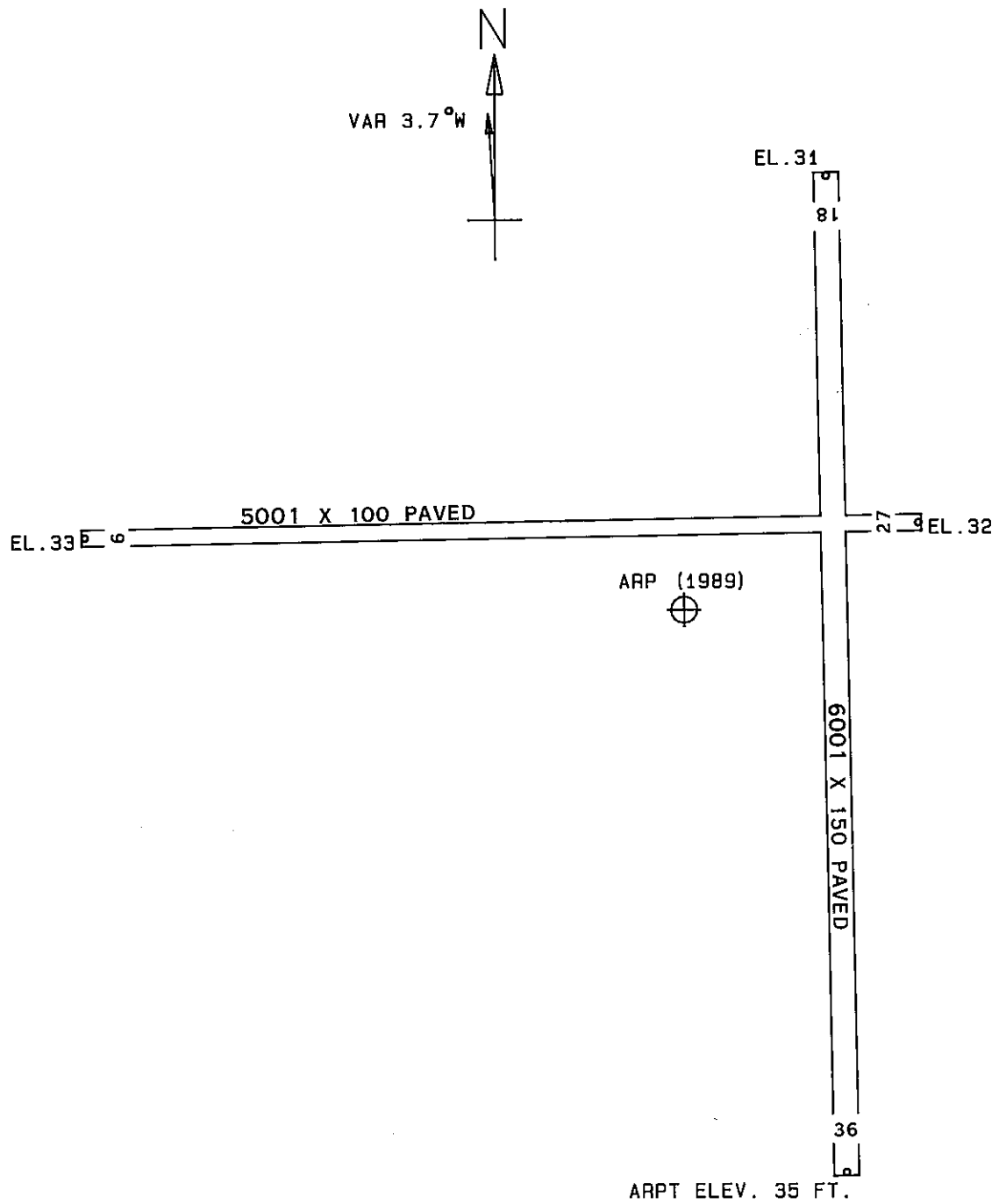
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL WIND TEE	283038.31	0804746.54	1A	42		7	7	7	-2334		202R	8
WINDSOCK	283032.92	0804745.41	1A	47		12	12	12	-1789		295R	13
ROD ON OL GLIDE SLOPE	283026.00	0804752.24	1A	75		40	40	40	-1099		325L	41
TREE	283004.76	0804750.12	1A	53		18	18	18	1049		169L	1
TREE	283004.75	0804746.61	1A	52		17	17	17	1054		144R	0
TREE	283003.26	0804741.23	1A	70		35	35	35	1212		622R	15
TREE	282959.36	0804740.24	1A	82		47	47	47	1608		704R	19
TREE	282956.97	0804741.05	1A	78		43	43	43	1848		629R	10
OL ON TRANSMISSION TOWER	282928.23	0804747.48	1A	122		87	87	87	4741		11R	-4

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AIRPORT ELEVATION 35

ARP 283048.828N 0804759.057W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	283051.02	0804741.63	1A	46		11	85 36	1571
TREE	283057.69	0804814.17	1A	95		60	307 16	1618
TREE	283105.52	0804756.94	1A	85		50	10 5	1697
ANTENNA ON OL CONTROL TWR	283041.07	0804741.19	1A	80		45	119 52	1776
TREE	283110.06	0804755.59	1A	69		34	11 55	2167
TREE	283104.24	0804740.90	1A	80		45	49 50	2246
TREE	283058.67	0804734.63	1A	68		33	69 11	2395
ROD ON OL AIRPORT BEACON	283032.85	0804736.94	1A	97		62	132 59	2549
TREE	283115.29	0804755.37	1A	72		37	10 43	2693
TREE	283111.16	0804741.95	1A	86		51	37 47	2723
TREE	283057.93	0804835.17	1A	75		40	289 37	3350
TREE	283119.22	0804743.31	1A	84		49	28 17	3376
TREE	283122.68	0804758.37	1A	85		50	4 44	3420
TREE	283125.69	0804758.25	1A	84		49	4 48	3724
TREE	283056.95	0804841.97	1A	57		22	285 48	3915
TREE	283124.71	0804742.41	1A	90		55	25 59	3916
TREE	283128.27	0804757.21	1A	79		44	6 4	3987
TREE	283011.23	0804738.30	1A	97		62	157 42	4225
POLE	283048.31	0804851.68	1A	63		28	273 4	4695
POLE	283057.61	0804851.77	1A	62		27	284 23	4785
TREE	283136.24	0804759.31	1A	95		60	3 26	4788
TREE	283135.32	0804740.84	1A	88		53	22 47	4969
TREE	283058.68	0804854.93	1A	85		50	285 0	5083
OL ON TRANSMISSION TOWER	282928.11	0804802.46	1A	135		100	185 50	8158
OL ON STACK	282935.43	0804649.05	1A	327	311	292	143 35	9693



TOUCHDOWN ZONE RUNWAY ELEVATION	
9	33
27	33
18	33
36	35

SPACE CENTER EXECUTIVE AIRPORT
 TITUSVILLE, FLORIDA
 (NOT TO SCALE)