OBSTRUCTION DATA SHEET

ODS 579
TSTI - WACO AIRPORT
WACO, TEXAS

DIGITIZED FROM

OC 579
SURVEYED DECEMBER 1991
5TH EDITION

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

ATTENTION

See SPECIAL NOTICES in "Dates of Latest Editions, Airport Obstruction Charts - Obstruction Data Sheets," for possible corrections. National Oceanic and Atmospheric Administration (NOAA) publications are available through NOAA Distribution Branch (N/CG33), National Ocean Service, Riverdale, MD 20737. Telephone: 301-436-6990

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).

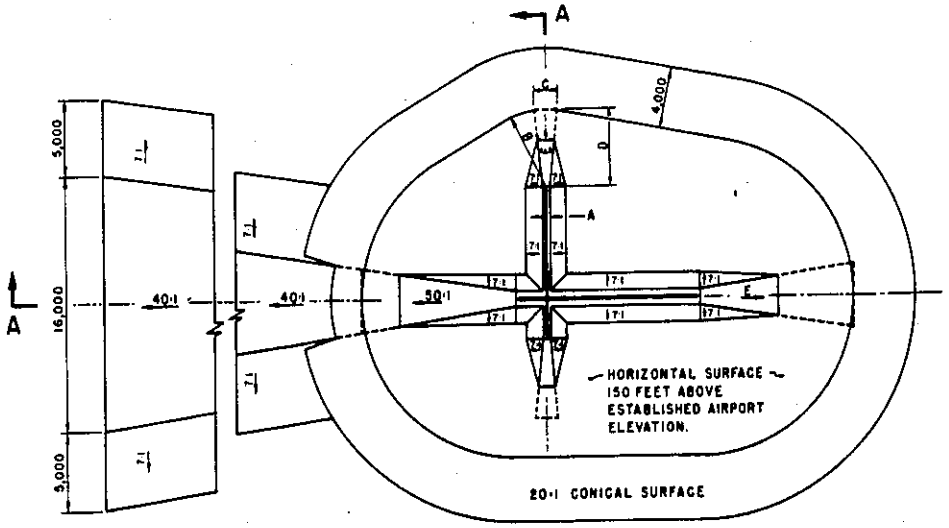
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

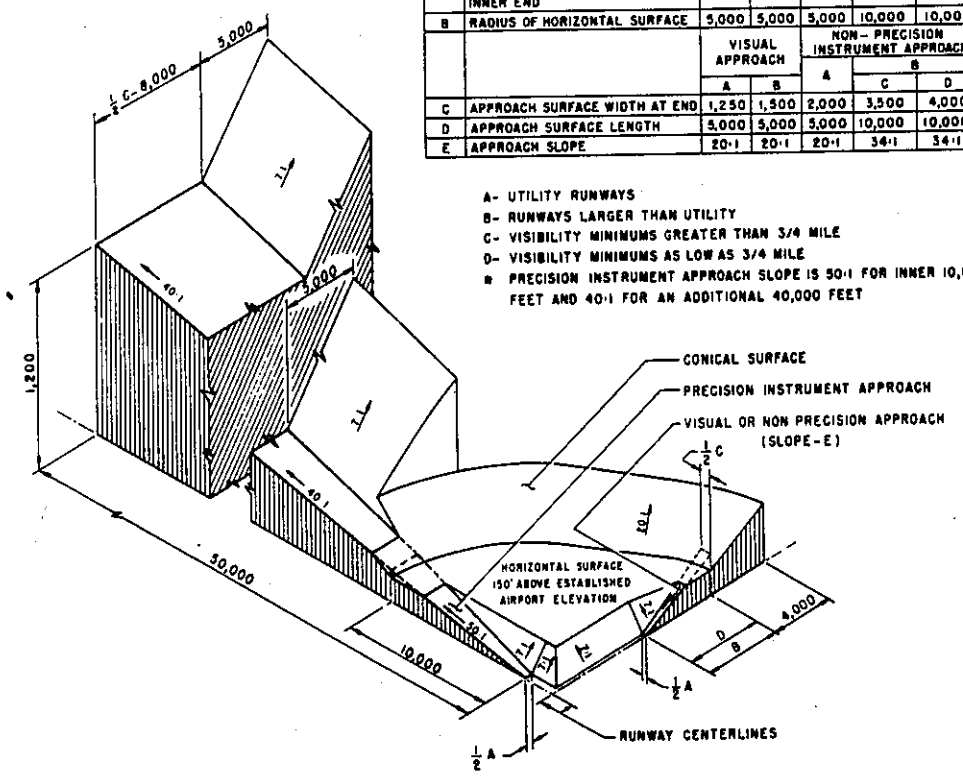
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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		
					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
		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 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

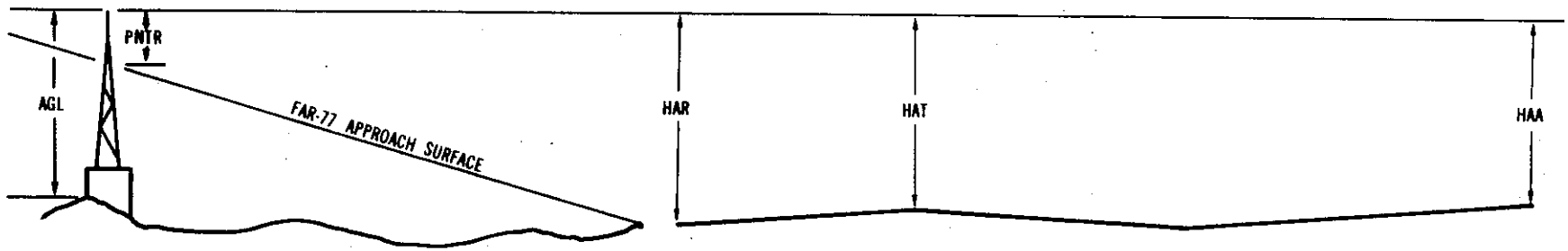
OC XXXX

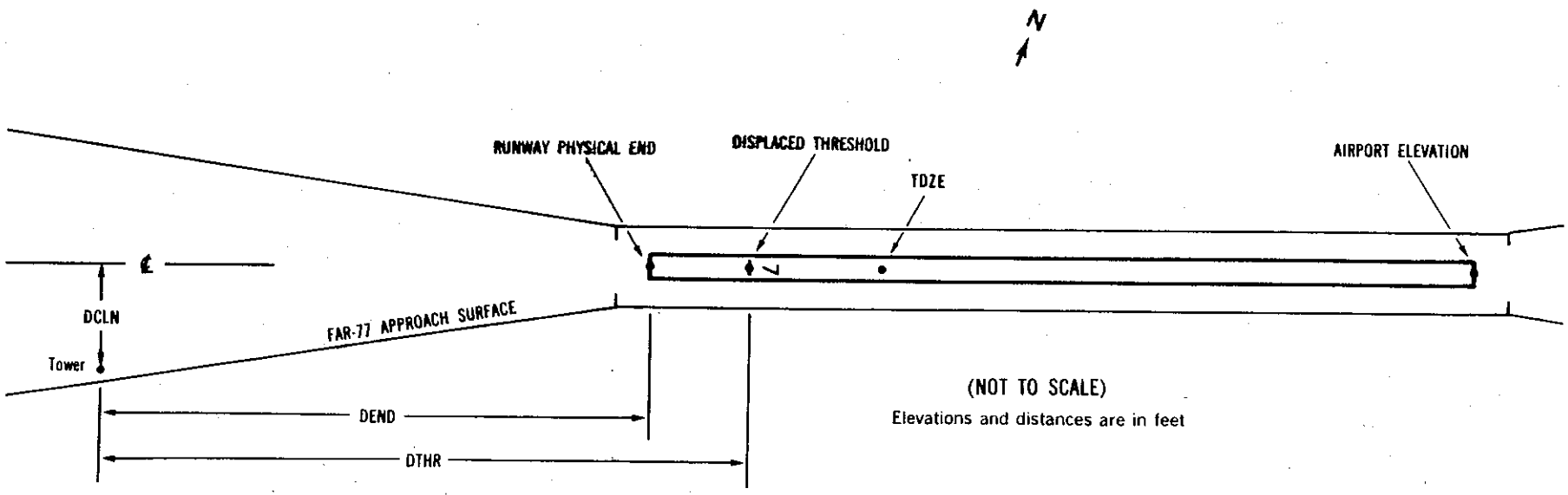
AIRPORT ELEVATION XXXX

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]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.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).

OC0579

AIRPORT ELEVATION 469

17L PIR 469/469 313905.169N 0970424.712W 3573240

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	313737.96	0970425.77	1A	458		-11	-11	-11	-8800		469R	2
GROUND	313740.88	0970426.17	1A	461		-8	-8	-8	-8504		491R	5
POST	313751.21	0970425.05	1A	464		-5	-5	-5	-7465		349R	4
GROUND	313806.07	0970427.49	1A	466		-3	-3	-3	-5956		496R	5
GROUND	313809.90	0970427.68	1A	465		-4	-4	-4	-5568		496R	4
OL ON LIGHTED WINDSOCK	313820.06	0970419.51	1A	486		17	17	17	-4573		254L	24
GROUND	313845.93	0970418.07	1A	474		5	5	5	-1967		490L	8
GROUND	313849.56	0970418.38	1A	473		4	4	4	-1599		479L	6
POST	313853.27	0970428.39	1A	476		7	7	7	-1188		369R	9
ROD ON OL GLIDE SLOPE	313855.35	0970418.43	1A	502		33	33	33	-1015		500L	35
GROUND	313901.55	0970429.03	1A	473		4	4	4	-349		388R	5
GROUND	313910.00	0970429.79	1A	474		5	5	5	506		418R	-1
POLE	313921.36	0970418.76	1A	496		27	27	27	1612		584L	-1
POLE	313923.93	0970420.61	1A	501		32	32	32	1879		435L	-2
TREE	313926.89	0970427.27	1A	508		39	39	39	2203		127R	-1
TREE	313933.62	0970431.73	1A	515		46	46	46	2899		483R	-8
TREE	313939.45	0970425.21	1A	521		52	52	52	3463		105L	-13

OC0579

AIRPORT ELEVATION 469

35R C 456/461 313740.136N 0970420.451W 1773242

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	313901.55	0970429.03	1A	473		17	12	4	-8251		388L	5
ROD ON OL GLIDE SLOPE	313855.35	0970418.43	1A	502		46	41	33	-7586		500R	35
POST	313853.27	0970428.39	1A	476		20	15	7	-7412		369L	9
GROUND	313849.56	0970418.38	1A	473		17	12	4	-7001		479R	6
GROUND	313845.93	0970418.07	1A	474		18	13	5	-6633		490R	8
OL ON LTD WSK	313820.06	0970419.51	1A	486		30	25	17	-4027		254R	24
GROUND	313809.90	0970427.68	1A	465		9	4	-4	-3032		496L	4
GROUND	313806.07	0970427.49	1A	466		10	5	-3	-2644		496L	5
POST	313751.21	0970425.05	1A	464		8	3	-5	-1135		349L	4
GROUND	313740.88	0970426.17	1A	461		5	0	-8	-97		491L	5
GROUND	313737.96	0970425.77	1A	458		2	-3	-11	200		469L	2
POLE	313728.76	0970413.08	1A	481		25	20	12	1175		587R	-4
OL ON LOCALIZER	313728.27	0970419.86	1A	458		2	-3	-11	1200		0L	-27
ANTENNA ON BUILDING	313727.74	0970417.39	1A	474		18	13	5	1263		211R	-13
TREE	313722.00	0970422.40	1A	496		40	35	27	1823		247L	-8
TREE	313715.75	0970427.07	1A	501		45	40	32	2437		678L	-21
TREE	313715.98	0970418.87	1A	506		50	45	37	2444		32R	-16

17R A(V) 466/469 313836.950N 0970431.988W 3573212

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	313858.14	0970436.38	1A	498		32	29	29	2156		288R	-66
GROUND	313901.55	0970429.03	1A	473		7	4	4	2473		362L	-107
GROUND	313910.00	0970429.79	1A	474		8	5	5	3328		333L	-148
TREE	313926.89	0970427.27	1A	508		42	39	39	5025		624L	-199

OC0579

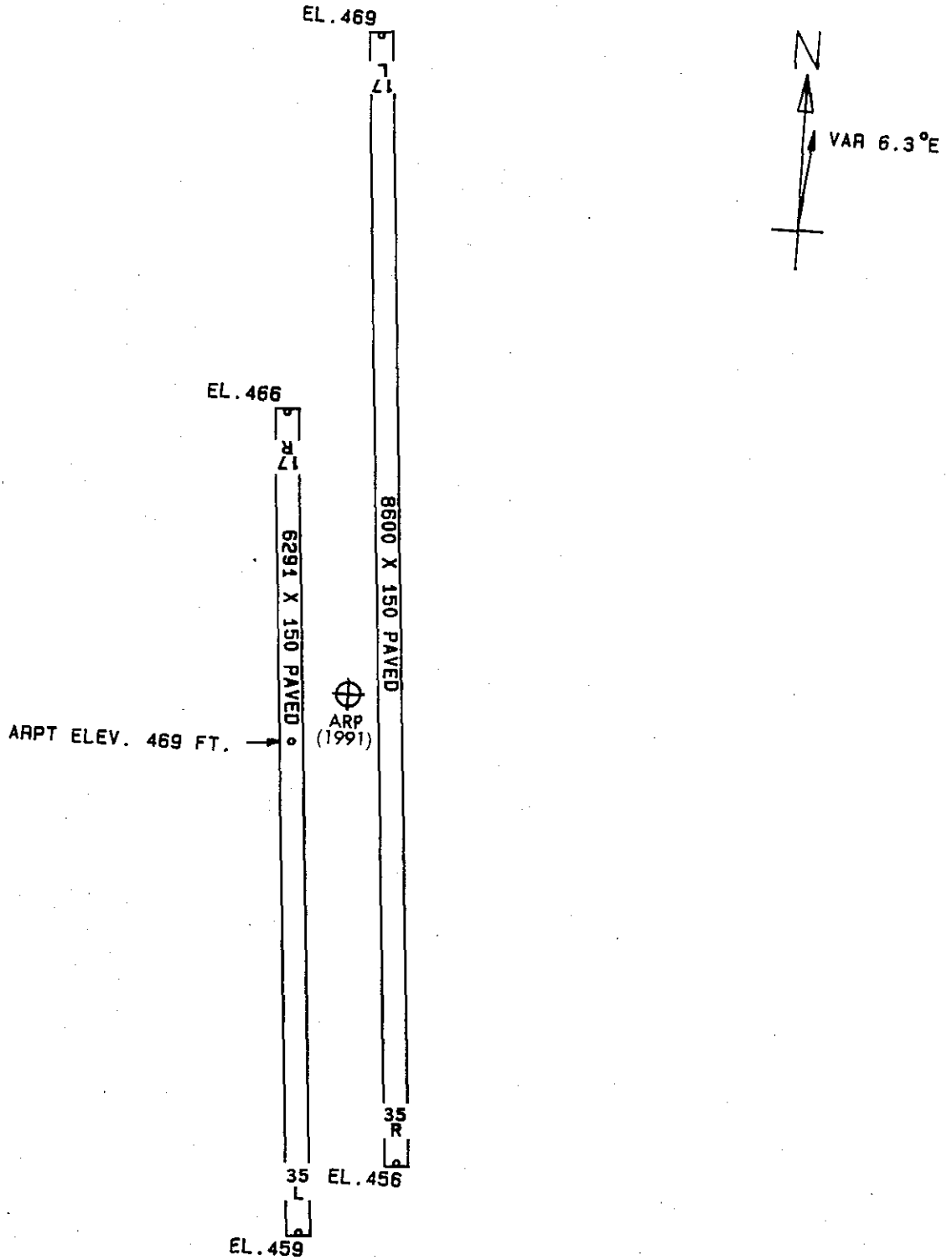
AIRPORT ELEVATION 469

35L A(V) 459/469 313734.753N 0970428.861W 1773214

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	313724.42	0970428.33	1A	466		7	-3	-3	1045		1R	-35
TREE	313722.01	0970431.00	1A	496		37	27	27	1279		240L	-17
TREE	313715.75	0970427.07	1A	501		42	32	32	1925		72R	-44

ARP 313815.555N 0970425.894W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL FENCE	313810.14	0970434.27	1A	478		9	226 37	907
ROD ON OL AIRPORT BEACON	313814.06	0970412.89	1A	497		28	91 22	1135
ANTENNA ON OL ATCT	313820.68	0970443.11	1A	555		86	282 53	1576
VENT ON BUILDING	313831.14	0970416.69	1A	474		5	20 31	1764
TREE	313833.05	0970416.43	1A	479		10	18 32	1948
ROD ON OL WATER TANK	313814.61	0970458.01	1B	633		164	261 45	2778
FLOODLIGHT ON OL HANGAR	313747.98	0970438.81	1A	536		67	195 33	3002
OL FENCE	313746.34	0970433.08	1A	473		4	185 36	3017
HANGAR	313744.56	0970408.40	1A	529		60	147 55	3478
POLE	313849.90	0970415.55	1A	496		27	8 9	3584
TREE	313724.27	0970432.24	1A	515		46	179 45	5211
POLE	313916.15	0970415.40	1A	498		29	2 8	6190
OL ON WATER TANK	313813.35	0970612.47	1B	632		163	262 19	9217
OL ON WATER TANK	313628.34	0970454.80	1B	602		133	186 42	11118
TRANSMISSION TOWER	313917.04	0970618.34	1B	617		148	296 18	11536
ANTENNA OL WATER TANK	313944.95	0970615.27	2C	676		207	307 24	13076
TRANSMISSION TOWER	314005.20	0970616.74	2C	635		166	312 51	14648



TOUCHDOWN ZONE RUNWAY	ELEVATION
17L	469
35R	461
17R	469
35L	469

TSTI - WACO AIRPORT

WACO, TEXAS

(NOT TO SCALE)