

# OBSTRUCTION DATA SHEET

ODS 5416  
LAKE TAHOE AIRPORT  
SOUTH LAKE TAHOE, CALIFORNIA

DIGITIZED FROM

OC 5416  
SURVEYED JULY 1993  
8TH 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.

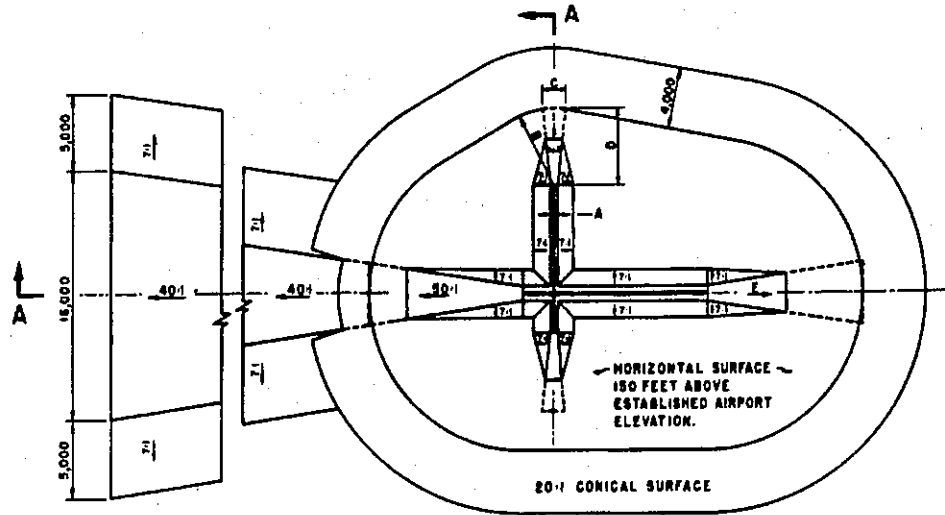
ODS information is arranged as follows:

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:

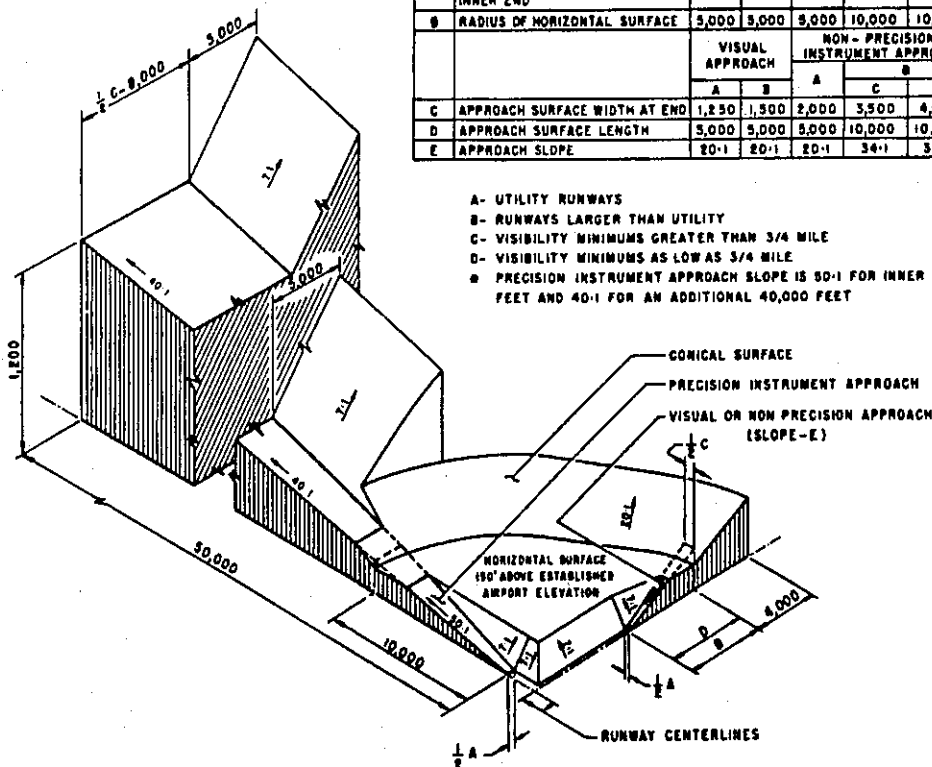
- A(V) ..... Utility runway - visual approach only
- A(NP) .... Utility runway - nonprecision instrument approach
- B(V) ..... Nonutility runway - visual approach only
- C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D ..... Nonutility runway- 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	800	800	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	8,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	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

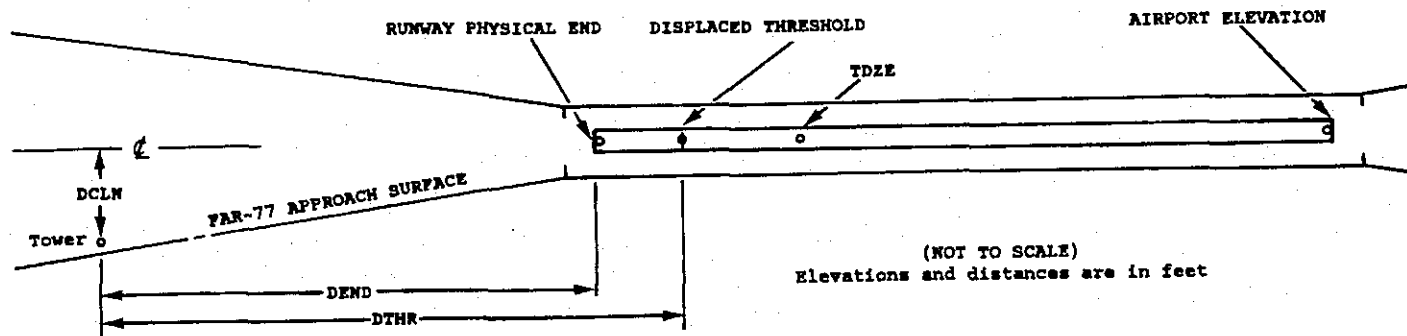
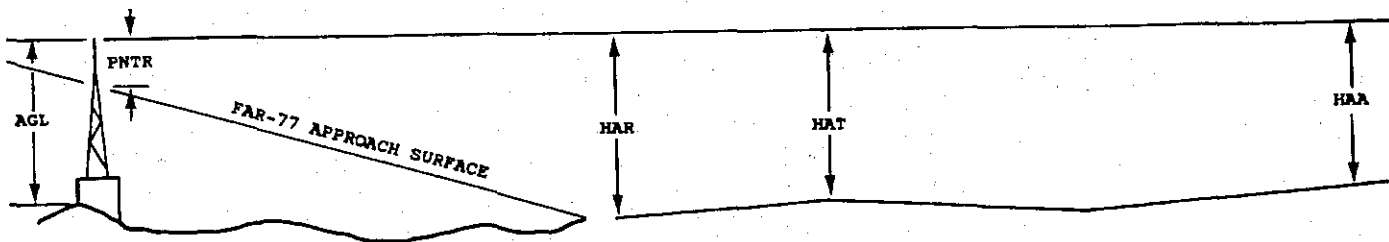
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

1	2	3	4	4	5	6	7	7	8	9	10	11	11	11	12	12	12	13
X	X	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	XXXXXX	XXXX/XXXX	XXXXXX.XXX	XXXXXX.XXX	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX	XXXX
XXXXXXXXXXXX			XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXXX	XXX	XXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX	XXXX

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(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 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 6264

36 SUPLC 6264/ 385256.829 -1195955.285 125520. 6259/6259 385316.451 -1195949.525

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	385420.21	-1195927.77	1A	6267		3	8	3	-8708	-6671	234R	16
WSK	385315.88	-1195946.54	1A	6271		7	12	7	-2033	5	243R	11
SIGN	385257.28	-1195958.38	1A	6271		7	12	7	11	2048	249L	7
OL ON FENCE	385255.42	-1195955.89	1A	6271		7	12	7	150	2187	15L	7
TREE	385254.40	-1195953.76	1A	6285		21	26	21	213	2250	173R	20
TREE	385251.26	-1195958.40	1A	6301		37	42	37	605	2642	114L	25
TREE	385245.20	-1195954.37	1A	6364		100	105	100	1130	3168	333R	73
TREE	385243.07	-1200004.67	1A	6348		84	89	84	1523	3560	412L	45
TREE	385235.11	-1200003.98	1A	6368		104	109	104	2295	4333	179L	42
TREE	385231.64	-1195959.24	1A	6415		151	156	151	2554	4591	265R	82
TREE	385203.82	-1200000.43	1A	6604		340	345	340	5317	7355	802R	189
TREE	385200.90	-1200004.70	1A	6609		345	350	345	5681	7718	539R	184
TREE	385153.81	-1200011.44	1A	6641		377	382	377	6500	8537	180R	192
TREE	385123.37	-1200009.57	1A	6621		357	362	357	9468	11505	1013R	84

18 c 6251/6254 385419.118 -1195931.122 1925535.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON FENCE	385255.42	-1195955.89	1A	6271		20	17	7	-8691		15R	7
SIGN	385257.28	-1195958.38	1A	6271		20	17	7	-8552		249R	7
WSK	385315.88	-1195946.54	1A	6271		20	17	7	-6508		243L	11
WSK	385420.21	-1195927.77	1A	6267		16	13	3	167		234L	16
FENCE	385421.61	-1195928.84	1A	6255		4	1	-9	287		120L	2
BUSH	385423.31	-1195928.41	1A	6263		12	9	-1	461		114L	5
BUSH	385425.82	-1195932.72	1A	6261		10	7	-3	632		275R	-2
BUSH	385427.19	-1195930.54	1A	6267		16	13	3	806		138R	-1
TREE	385433.67	-1195925.58	1A	6302		51	48	38	1532		97L	12
OL ON DME	385436.12	-1195919.65	1A	6323		72	69	59	1879		499L	23
OL ON LDA	385436.62	-1195922.09	1A	6304		53	50	40	1885		299L	4
TREE	385443.01	-1195926.03	1A	6317		66	63	53	2446		148R	0
TREE	385444.52	-1195923.47	1A	6327		76	73	63	2640		15L	5
TREE	385444.78	-1195915.98	1A	6346		95	92	82	2798		586L	19
TREE	385513.75	-1195907.39	1A	6405		154	151	141	5807		592L	-10

OC5416

AIRPORT ELEVATION 6264

ARP 385337.974 -1195943.205

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
FENCE	385337.63	-1195939.72	1A	6259		-5	8130	278
OL ON LTD WSK	385340.70	-1195937.77	1A	6284		20	4141	511
TREE	385344.58	-1195937.04	1A	6307		43	2031	827
ROD ON OL ATCT	385342.87	-1195953.41	1A	6377		113	28557	947
CLOM	385348.72	-1195936.00	1A	6261		-3	1203	1227
TREE	385344.34	-1195958.37	1A	6440		176	28238	1361
TREE	385347.59	-1195929.13	1A	6440		176	3313	1478
TREE	385326.10	-1195957.87	1A	6413		149	20823	1669
TREE	385354.55	-1195949.38	1A	6393		129	32809	1747
TREE	385353.36	-1195932.75	1A	6293		29	1222	1763
TREE	385357.90	-1195946.33	1A	6372		108	33725	2031
TREE	385314.35	-1195944.27	1A	6339		75	16625	2392
TREE	385341.27	-1195912.41	1A	6542		278	6636	2457
BUSH	385312.94	-1195947.19	1A	6268		4	17129	2552
TREE	385403.67	-1195944.76	1A	6372		108	34141	2602
TREE	385401.78	-1195956.51	1A	6486		222	32048	2628
TREE	385313.37	-1195957.31	1A	6343		79	18832	2727
TREE	385403.59	-1195931.13	1A	6278		14	437	2762
TREE	385331.27	-1195906.89	1A	6577		313	8740	2950
TREE	385307.27	-1195946.55	1A	6343		79	16915	3117
TREE	385327.83	-1200020.47	1B	6777		513	23512	3119
TREE	385310.01	-1195926.44	1A	6469		205	13917	3125
TREE	385406.18	-1195926.06	1A	6371		107	948	3159
TREE	385309.35	-1195959.33	1A	6362		98	18810	3164
TREE	385412.12	-1195947.71	1A	6452		188	33830	3473
TREE	385412.68	-1195942.00	1A	6393		129	34557	3512
TREE	385305.51	-1200000.29	1A	6354		90	18645	3551
TREE	385401.54	-1200018.48	1C	6568		304	29455	3669
TREE	385414.97	-1195944.09	1A	6426		162	34319	3743
TREE	385345.90	-1200030.78	1A	7016		752	26626	3846
TREE	385416.28	-1195939.09	1A	6311		47	34911	3889
TREE	385259.50	-1195948.26	1A	6348		84	17015	3913
TREE	385300.60	-1200000.42	1A	6350		86	18412	4019
FENCE	385416.02	-1195928.29	1A	6255		-9	125	4025
TREE	385416.67	-1195921.92	1A	6387		123	739	4260
SIGN	385419.62	-1195934.23	1A	6255		-9	35357	4272
TREE	385255.71	-1195950.57	1A	6317		53	17209	4315
TREE	385303.34	-1195910.84	1A	6578		314	12815	4339
TREE	385256.52	-1200001.42	1A	6346		82	18321	4434
FENCE	385421.60	-1195933.97	1A	6255		-9	35347	4473
TREE	385252.30	-1195951.87	1A	6320		56	17249	4671



AIRPORT ELEVATION 6264

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG	BEARING	DISTANCE
ARP	385337.974	-1195943.205							
TREE	385413.17	-1195903.66	1B	6518		254		2541	4738
TREE	385425.26	-1195941.83	1A	6403		139		34541	4785
TREE	385252.53	-1200002.81	1A	6344		80		18302	4852
TREE	385251.18	-1195923.72	1A	6580		316		14622	4978
TREE	385424.06	-1195919.01	1A	6381		117		641	5040
TREE	385246.95	-1195951.99	1A	6372		108		17203	5208
TREE	385430.27	-1195935.01	1A	6313		49		35122	5330
TREE	385246.04	-1200004.23	1A	6343		79		18157	5510
TREE	385359.36	-1195836.31	1C	6534		270		5208	5714
TREE	385258.04	-1200037.49	1A	6979		715		21108	5894
TREE	385432.54	-1195916.79	1A	6379		115		507	5901
TREE	385436.05	-1195936.13	1A	6333		69		34950	5902
TREE	385431.78	-1195913.14	1A	6403		139		759	5940
HAZARD BEACON	385255.01	-1200036.72	1A	6993		729		20838	6066
TREE	385438.84	-1195932.98	1A	6315		51		35152	6210
TREE	385439.44	-1195943.82	1A	6410		146		34356	6219
APBN	385436.93	-1195916.39	1A	6362		98		357	6330
TREE	385437.12	-1195908.85	1A	6449		185		848	6571
TREE	385442.76	-1195931.62	1A	6314		50		35221	6618
TREE	385231.10	-1195932.93	1A	6610		346		15733	6814
TREE	385444.79	-1195912.72	1A	6390		126		401	7176
TREE	385423.07	-1195829.00	1C	6420		156		3630	7431
TREE	385437.46	-1200050.38	1C	6481		217		30258	8026
TREE	385417.47	-1200123.37	1B	7101		837		28111	8869
TREE	385206.97	-1195951.89	1A	6612		348		16840	9232
HAZARD BEACON	385256.38	-1195755.20	1A	7016		752		10037	9520
TREE	385235.62	-1195806.99	1C	6700		436		11403	9882
TREE	385254.42	-1195749.69	1B	7096		832		10032	9998
TREE	385400.26	-1195734.31	1C	6624		360		6154	10436
HAZARD BEACON	385419.39	-1200145.34	1A	7220		956		27752	10525
TREE	385504.82	-1200104.72	1C	6442		178		30809	10895
TREE	385152.67	-1195835.73	1C	6660		396		13747	11915
OL ON TWR	385459.28	-1195752.53	1A	6612	308	348		3109	12008
OL ON TWR	385459.93	-1195747.59	1A	6618	309	354		3210	12340
TREE	385440.91	-1195722.89	1C	6570		306		4431	12789
TREE	385436.82	-1200208.98	2C	7337		1073		28144	12970
TREE	385137.24	-1195824.47	1C	7124		860		13723	13709
TREE	385333.62	-1200237.78	2C	7134		870		25235	13809
TREE	385256.21	-1195653.94	1C	8014		1750		9154	14034
TREE	385218.62	-1200209.07	1C	6573		309		21934	14052
TREE	385323.22	-1195646.01	1C	7120		856		8027	14088

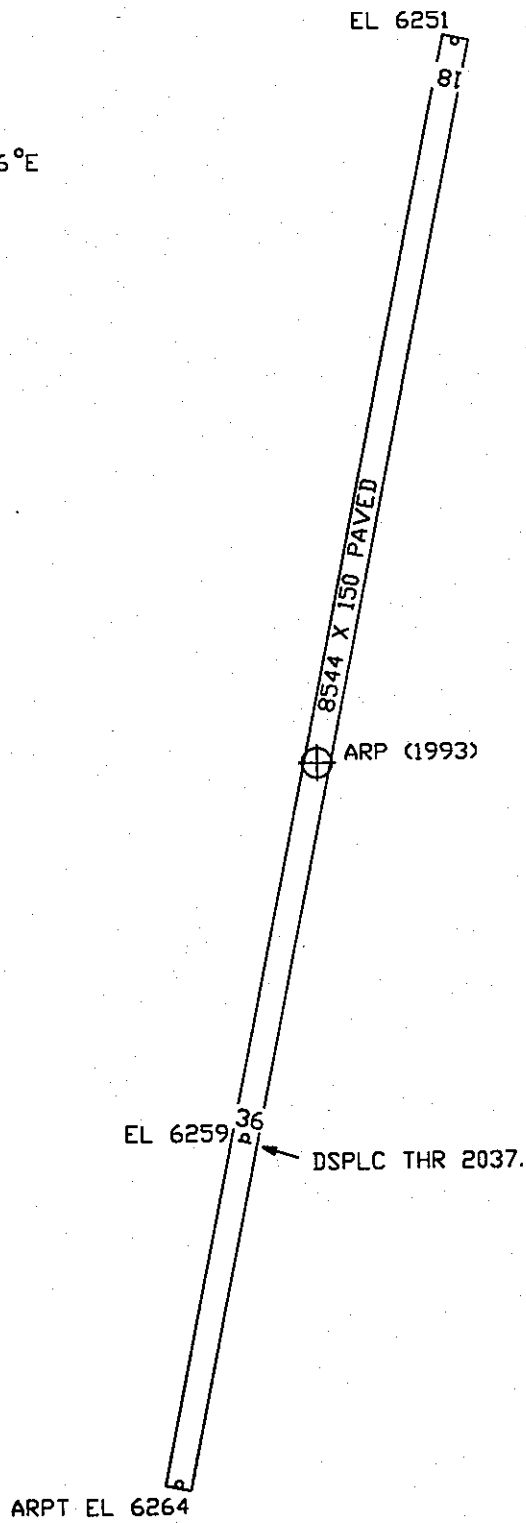
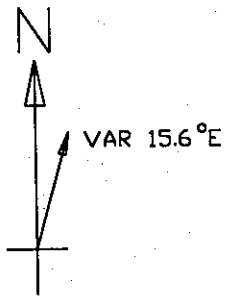
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AIRPORT ELEVATION 6264

ARP 385337.974 -1195943.205

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	385112.87	-1200013.96	1C	6570		306	17348	14879
TREE	385212.71	-1195709.13	1C	7463		1199	10941	14928
TREE	385313.21	-1200250.33	1C	7041		777	24448	15005
TREE	385108.23	-1195937.22	1C	6762		498	16236	15156
TREE	385423.59	-1195638.46	1C	6884		620	5650	15316
TREE	385147.61	-1200200.11	1C	6572		308	20831	15552
TREE	385202.98	-1200227.04	2C	6652		388	21750	16130
TREE	385507.80	-1195644.00	1C	7101		837	4142	16829
TREE	385059.41	-1195824.11	1C	7785		1521	14305	17217
TREE	385142.37	-1200226.21	1C	6630		366	21211	17405
TREE	385037.12	-1200012.07	1C	7391		1127	17130	18438
TREE	385040.01	-1200034.43	1C	7072		808	17705	18454



TOUCHDOWN ZONE RUNWAY ELEVATION	
36	6259
18	6254

LAKE TAHOE AIRPORT  
 SOUTH LAKE TAHOE, CALIFORNIA  
 (NOT TO SCALE)  
 (ELEVATIONS AND DISTANCES IN FEET)