OBSTRUCTION DATA SHEET

ODS 805
WATSONVILLE MUNICIPAL AIRPORT
WATSONVILLE, CALIFORNIA

DIGITIZED FROM

OC 805
SURVEYED FEBRUARY 1988
5TH 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).

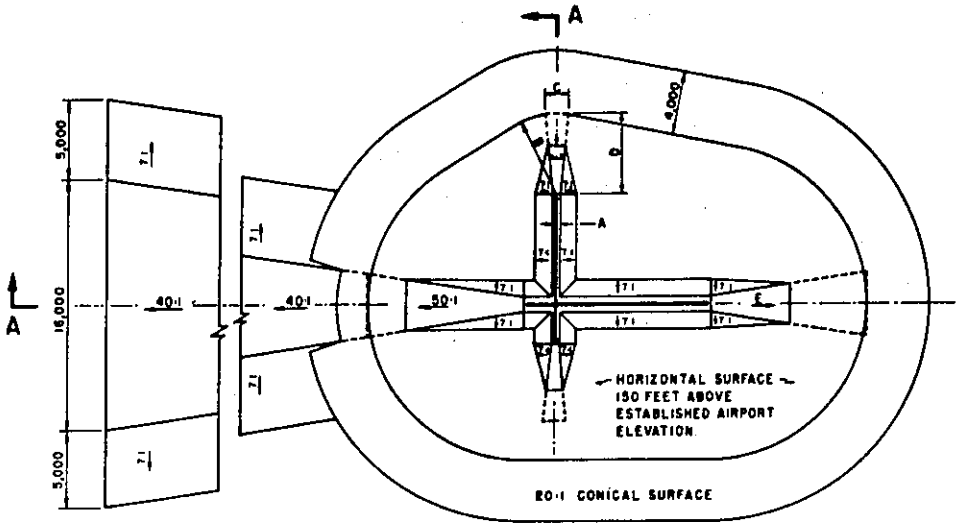
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

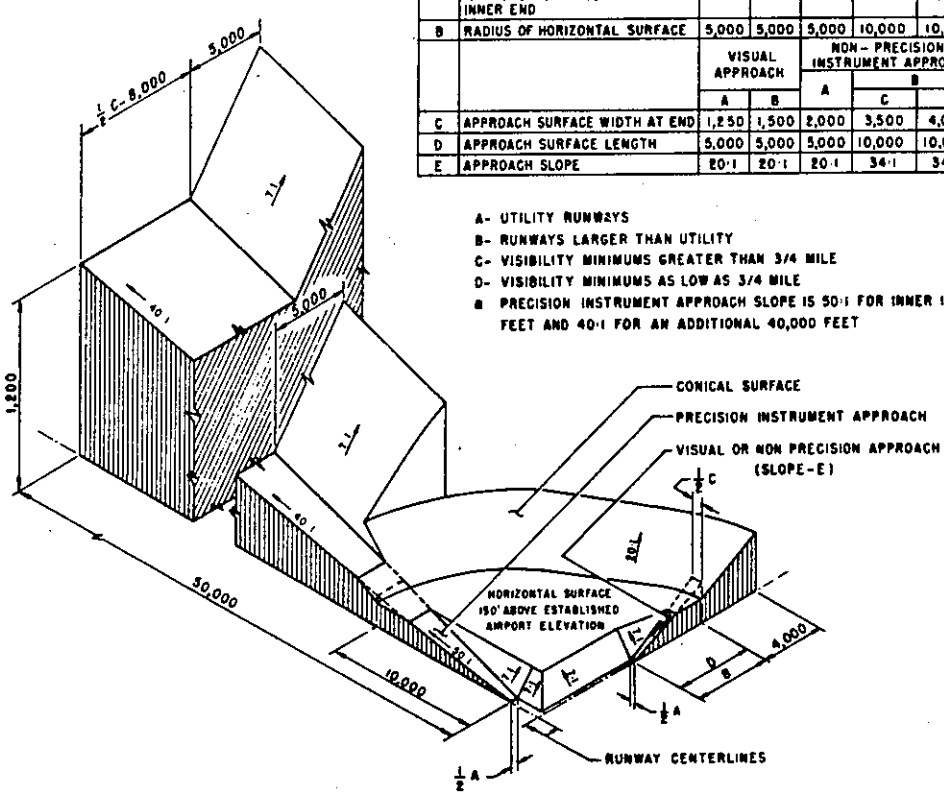
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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		
					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	a
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	a

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
a 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

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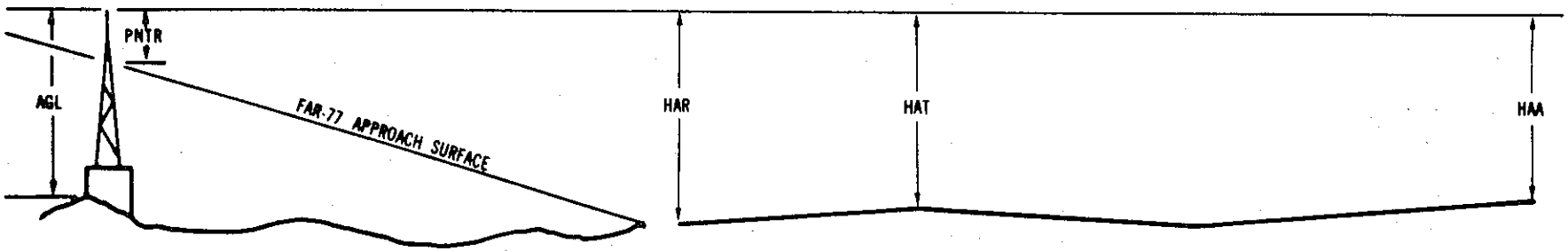
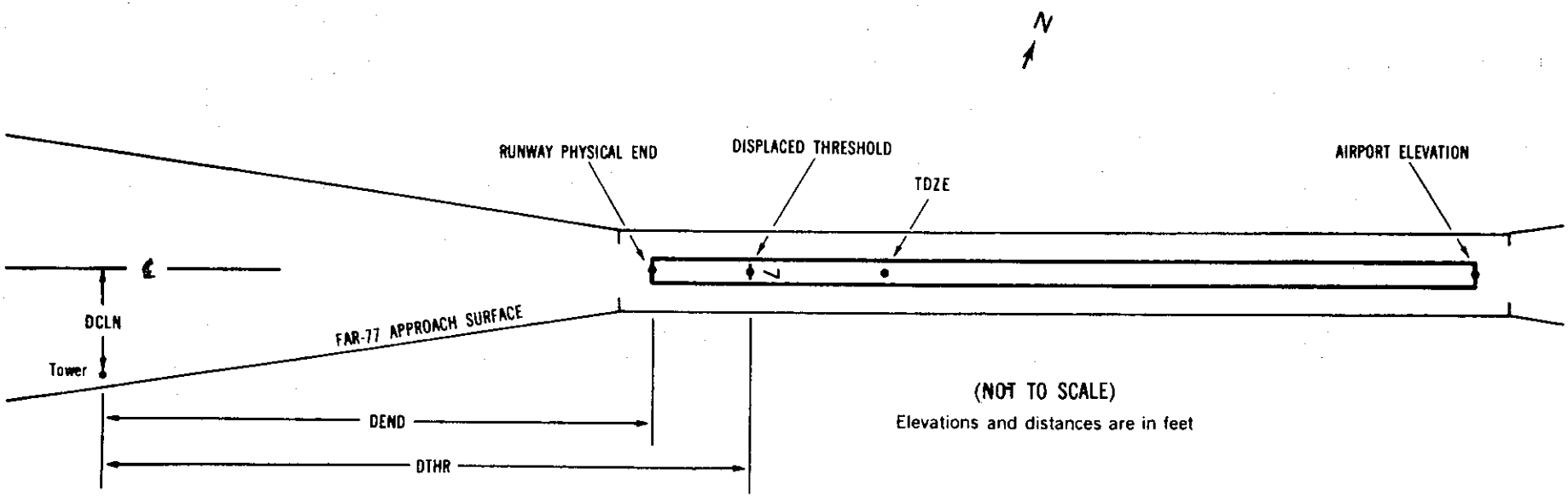




(NOT TO SCALE)

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 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).

OC0805

AIRPORT ELEVATION 160

1 C 137/149 365544.676N 1214741.001W 2121858

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FARM EQUIPMENT	365549.21	1214741.27	1A	148		11	-1	-12	-376		264L	9
FENCE POST	365545.82	1214743.58	1A	139		2	-10	-21	15		239L	2
TREE	365533.77	1214750.33	1A	167		30	18	7	1337		50L	-3
TREE	365526.75	1214802.40	1A	205		68	56	45	2461		499L	1
TREE	365435.40	1214845.14	1A	301		164	152	141	8706		657L	-86
TREE	365436.70	1214852.83	1A	335		198	186	175	8929		1255L	-59

19 SUPLC 154/ 365622.287N 1214711.364W 0321916 152/152 365617.354N 1214715.251W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	365545.82	1214743.58	1A	139		-15	-13	-21	-4516	-3925	239R	2
FARM EQUIPMENT	365549.21	1214741.27	1A	148		-6	-4	-12	-4125	-3534	264R	9
OL ON LOCALIZER	365625.67	1214708.70	1A	162		8	10	2	405	995	0L	2
OL ON POLE	365627.37	1214711.60	1A	217		63	65	57	424	1014	291R	56
POLE	365628.41	1214707.77	1A	189		35	37	29	680	1270	84R	21
ANTENNA	365629.38	1214708.96	1A	205		51	53	45	711	1301	219R	36
POLE	365628.83	1214705.95	1A	196		42	44	36	794	1385	17L	25
TREE	365631.27	1214708.46	1A	207		53	55	47	894	1484	286R	33
OL ON POLE	365630.28	1214700.15	1A	222		68	70	62	1170	1760	337L	39
TREE	365635.24	1214705.87	1A	227		73	75	67	1345	1936	324R	39
TREE	365643.07	1214700.45	1A	249		95	97	89	2250	2840	375R	35
TREE	365727.38	1214638.06	1B	329		175	177	169	7009	7599	1236R	-25

OC0805

AIRPORT ELEVATION 160

8 SUPLC 160/160 365618.128N 1214734.834W 2794909

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	365609.20	1214644.85	1A	140		-20	-20	-20	-4153		197R	7
FENCE POST	365613.70	1214644.68	1A	142		-18	-18	-18	-4089		254L	9
TREE	365621.47	1214741.27	1A	182		22	22	22	572		244L	11
POLE	365622.30	1214745.42	1A	187		27	27	27	919		269L	6
ANTENNA	365621.98	1214746.40	1A	207		47	47	47	991		224L	24
TREE	365618.60	1214747.65	1A	205		45	45	45	1033		130R	20
POLE	365621.75	1214747.89	1A	203		43	43	43	1107		180L	16
TREE	365622.93	1214748.48	1A	207		47	47	47	1175		290L	18
TREE	365616.45	1214750.03	1A	205		45	45	45	1187		378R	16
TREE	365624.32	1214750.58	1A	224		64	64	64	1367		399L	30
TREE	365622.01	1214808.92	1A	280		120	120	120	2794		85R	44
TREE	365620.55	1214905.01	1B	530		370	370	370	7256		1006R	162
TREE	365629.26	1214929.35	1B	546		386	386	386	9353		474R	117
TREE	365635.67	1214937.09	2C	579		419	419	419	10082		58L	128

26 SUPLC 133/154 365611.382N 1214646.295W 0994938

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	365613.70	1214644.68	1A	142		9	-12	-18	89		254R	9
BUSH	365609.20	1214644.85	1A	140		7	-14	-20	153		197L	7
FENCE	365609.71	1214643.54	1A	135		2	-19	-25	249		128L	1
ROAD (N)	365610.65	1214641.36	1A	137		4	-17	-23	407		4L	-2
POLE	365611.59	1214637.56	1A	159		26	5	-1	695		142R	11
POLE	365609.50	1214635.03	1A	165		32	11	5	933		31L	10
TREE	365611.05	1214633.83	1A	171		38	17	11	1003		139R	14
TREE	365612.07	1214631.25	1A	176		43	22	16	1192		278R	14
TREE	365613.36	1214627.18	1A	187		54	33	27	1495		462R	16
TREE	365611.90	1214623.52	1A	207		74	53	47	1813		367R	27

OC0805

AIRPORT ELEVATION 160

ARP 365608.786N 1214718.835W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON WINDSOCK	365611.83	1214723.85	1A	180		20	291 36	510
ROD ON OL AIRPORT BEACON	365602.24	1214716.80	1A	199		39	150 28	682
LIGHT STANDARD	365605.71	1214709.69	1A	180		20	97 15	805
POLE	365622.51	1214719.28	1A	196		36	343 0	1388
POLE	365624.24	1214714.81	1A	200		40	356 18	1596
TREE	365625.69	1214715.24	1A	239		79	354 11	1735
TREE	365622.18	1214705.30	1A	173		13	23 33	1744
TREE	365621.91	1214704.43	1A	186		26	25 53	1770
POLE	365622.57	1214733.82	1A	210		50	303 24	1850
POLE	365550.35	1214729.54	1A	175		15	189 30	2057
TREE	365613.49	1214743.64	1A	302		142	267 47	2069
TREE	365555.48	1214738.92	1A	165		5	214 59	2114
TREE	365624.23	1214700.36	1A	215		55	28 20	2166
TREE	365615.35	1214744.37	1A	197		37	272 16	2177
TREE	365622.62	1214740.76	1A	203		43	292 40	2264
TREE	365607.57	1214650.71	1A	245		85	77 35	2287
TREE	365616.65	1214652.05	1A	185		25	54 25	2316
OL ON TANK	365615.14	1214649.49	1A	167		7	59 25	2467
TREE	365628.63	1214700.37	1A	227		67	21 15	2505
TREE	365626.09	1214742.97	1A	297		137	296 16	2627
TREE	365630.57	1214658.13	1A	233		73	21 50	2771
TREE	365636.05	1214709.63	1A	236		76	359 39	2856
TREE	365542.87	1214734.06	1A	193		33	189 45	2898
POLE	365615.34	1214642.84	1A	174		14	61 43	2997
TREE	365615.02	1214759.31	1A	267		107	265 21	3346
POLE	365539.26	1214738.29	1A	171		11	192 22	3378
TREE	365613.81	1214637.14	1A	165		5	65 57	3423
TREE	365600.65	1214636.89	1A	228		68	88 4	3503
TREE	365545.89	1214753.57	1A	269		109	215 7	3649
TREE	365603.61	1214630.53	1A	183		23	82 6	3957
TREE	365533.80	1214741.56	1A	208		48	192 2	3991
TREE	365540.92	1214756.30	1A	266		106	211 42	4147
POLE	365529.65	1214743.94	1A	172		12	191 45	4452

AIRPORT ELEVATION 160

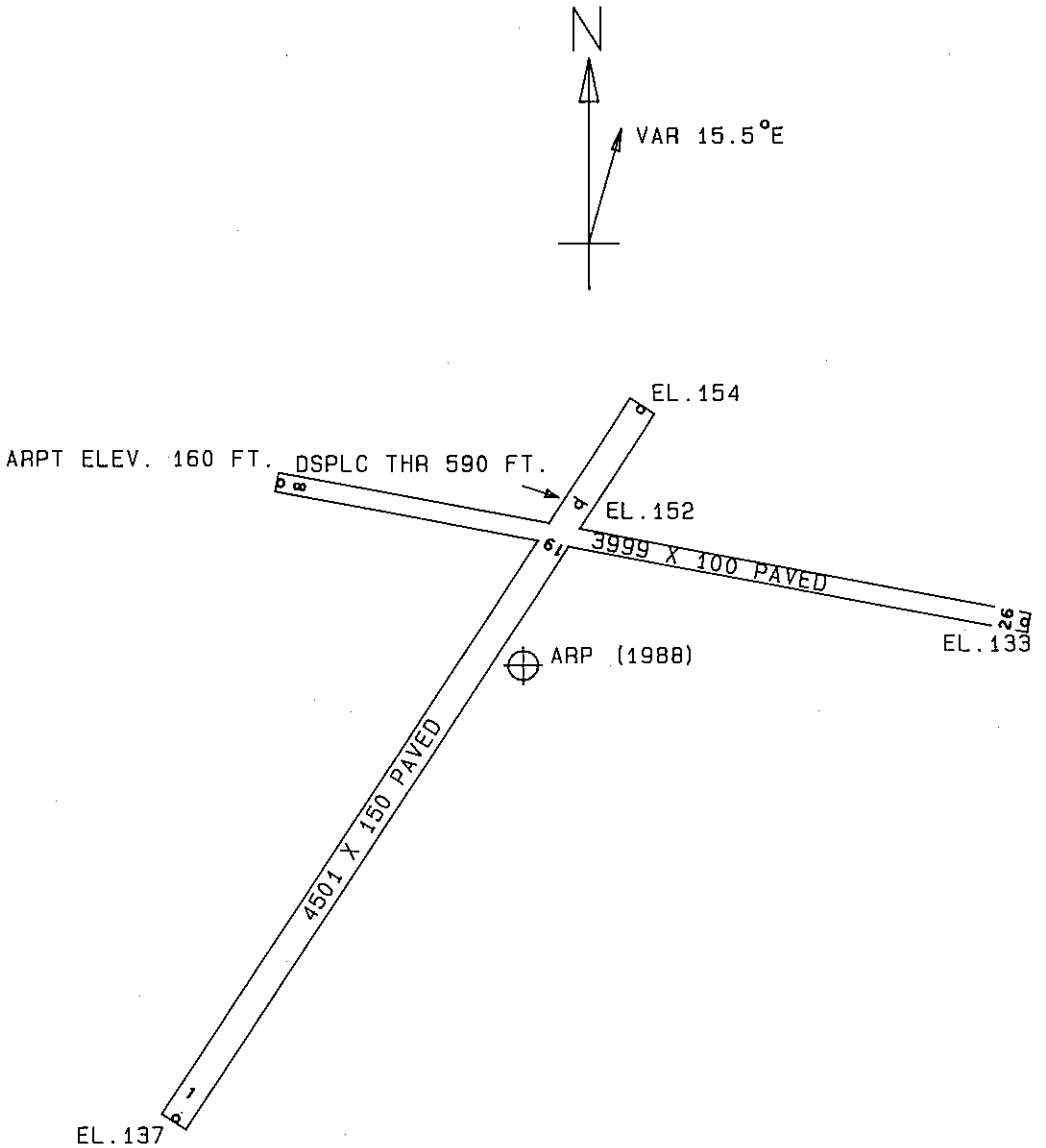
ARP 365608.786N 1214718.835W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	365529.19	1214802.79	1A	230		70	206 13	5364
TREE	365601.98	1214838.42	1B	419		259	248 26	6498
TREE	365642.40	1214830.28	1B	319		159	284 53	6723
TREE	365654.77	1214818.82	1B	366		206	298 11	6734
TREE	365607.42	1214844.86	1B	450		290	253 22	6986
TREE	365651.69	1214826.64	1B	343		183	292 45	7010
OL ON RADIO TOWER	365550.27	1214551.76	1B	289		129	89 20	7314
TREE	365552.79	1214900.82	1B	437		277	243 27	8437
TREE	365558.83	1214903.07	1B	478		318	247 43	8523
TREE	365707.78	1214834.54	1B	372		212	298 40	8566
TREE	365559.32	1214914.11	1B	478		318	248 40	9408
TREE	365535.79	1214907.23	1B	339		179	233 45	9413
TREE	365743.84	1214715.00	1B	403		243	346 21	9619
TREE	365527.85	1214907.63	1B	374		214	229 24	9756
TREE	365535.79	1214911.81	1B	389		229	234 31	9761
TREE	365525.22	1214906.99	1B	399		239	227 52	9825
TREE	365725.70	1214838.95	1B	387		227	304 37	10140
TREE	365713.81	1214856.44	1B	464		304	294 12	10297
TREE	365700.32	1214908.57	2C	420		260	284 50	10321
TREE	365752.18	1214714.16	1B	385		225	346 35	10463
TREE	365752.04	1214738.26	1B	378		218	335 55	10561
TREE	365753.40	1214717.62	1B	378		218	345 2	10581
TREE	365612.98	1214929.28	1B	571		411	256 48	10599
TREE	365553.59	1214936.01	1B	440		280	246 39	11243
TREE	365716.81	1214918.32	2C	463		303	289 51	11892
TREE	365715.37	1214920.04	2C	506		346	288 54	11923
TREE	365512.62	1214931.13	1B	344		184	226 39	12152
TREE	365731.33	1214909.05	2C	538		378	297 32	12237
TREE	365613.23	1214949.64	2C	539		379	256 37	12252
TREE	365813.34	1214743.91	2C	424		264	335 20	12760
TREE	365443.30	1214916.00	1B	350		190	212 15	12856
TREE	365607.44	1214958.11	2C	545		385	253 55	12932
TREE	365643.53	1214954.06	2C	585		425	270 6	13083

AIRPORT ELEVATION 160

ARP 365608.786N 1214718.835W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	365755.09	1214858.03	2C	493		333	307 41	13432
TREE	365820.53	1214744.47	2C	439		279	335 38	13486
POST	365439.83	1214923.10	2C	338		178	212 48	13519
POLE	365444.91	1214930.50	2C	346		186	216 5	13648
TREE	365504.52	1214948.63	2C	369		209	226 24	13791
TREE	365530.43	1215002.03	2C	395		235	238 12	13807
TREE	365751.81	1214917.89	2C	573		413	301 40	14211
TREE	365647.19	1215012.81	2C	642		482	269 54	14648



TOUCHDOWN ZONE RUNWAY	ELEVATION
1	149
19	152
8	160
26	154

WATSONVILLE MUNICIPAL AIRPORT

WATSONVILLE, CALIFORNIA

(NOT TO SCALE)