CHAPTER E.

Airport Plans

INTRODUCTION. The plan for the future development of Olympia Regional Airport has evolved from an analysis of many considerations. Among these are: aviation demand forecasts; facility requirements; aircraft operational characteristics; environmental considerations; and, the general direction of future airport development, as expressed by the Port of Olympia. The various landside and airside development options that were presented in the previous chapter provided a variety of options for future facility expansion. Following a careful assessment of the potential impacts of each development option, the Airport Sponsor selected components of a recommended Conceptual Development Plan, which was presented at the conclusion of the previous chapter.

Because previous chapters have established and quantified the future development needs of the Airport, the various elements of the selected plan are categorically reviewed here in an outline and graphic format. A brief written description of the individual elements, represented in the set of Airport Plans for Olympia Regional Airport, is accompanied by a graphic description presented in the form of the Airport Layout Plan, Airspace Plans, Approach Profiles and Inner Approach Surface Drawing, Terminal Area Development Plans, Land Use Plan, and the Property Map.

It is recognized that future demand for facilities cannot be totally predicted at the Airport, particularly during the latter stages of the 20-year planning period. Therefore, particular emphasis is placed on the initial portion of the planning period, the first five years. Here, the projections are more definable and the magnitude of program accomplishment is more pronounced. Furthermore, carefully guided development within the initial years of the planning period is essential to the future expansion of this facility and the continued enhancement of aviation development.



Airport Layout Plan

The Airport Layout Plan (ALP), which illustrates both airside and landside facilities, is a graphic depiction of the existing and ultimate airport facilities that will be required for the Airport to properly accommodate the forecast future demand. Additionally, the ALP provides detailed information on both airport and runway design criteria, which is necessary to define relationships with applicable standards. The following illustration, entitled AIRPORT LAYOUT PLAN, and the following paragraphs describe the major components of the future Airport Development Plan.

Runway System

The development recommendations for the runway system are presented in the following narrative.

Runway 17/35.

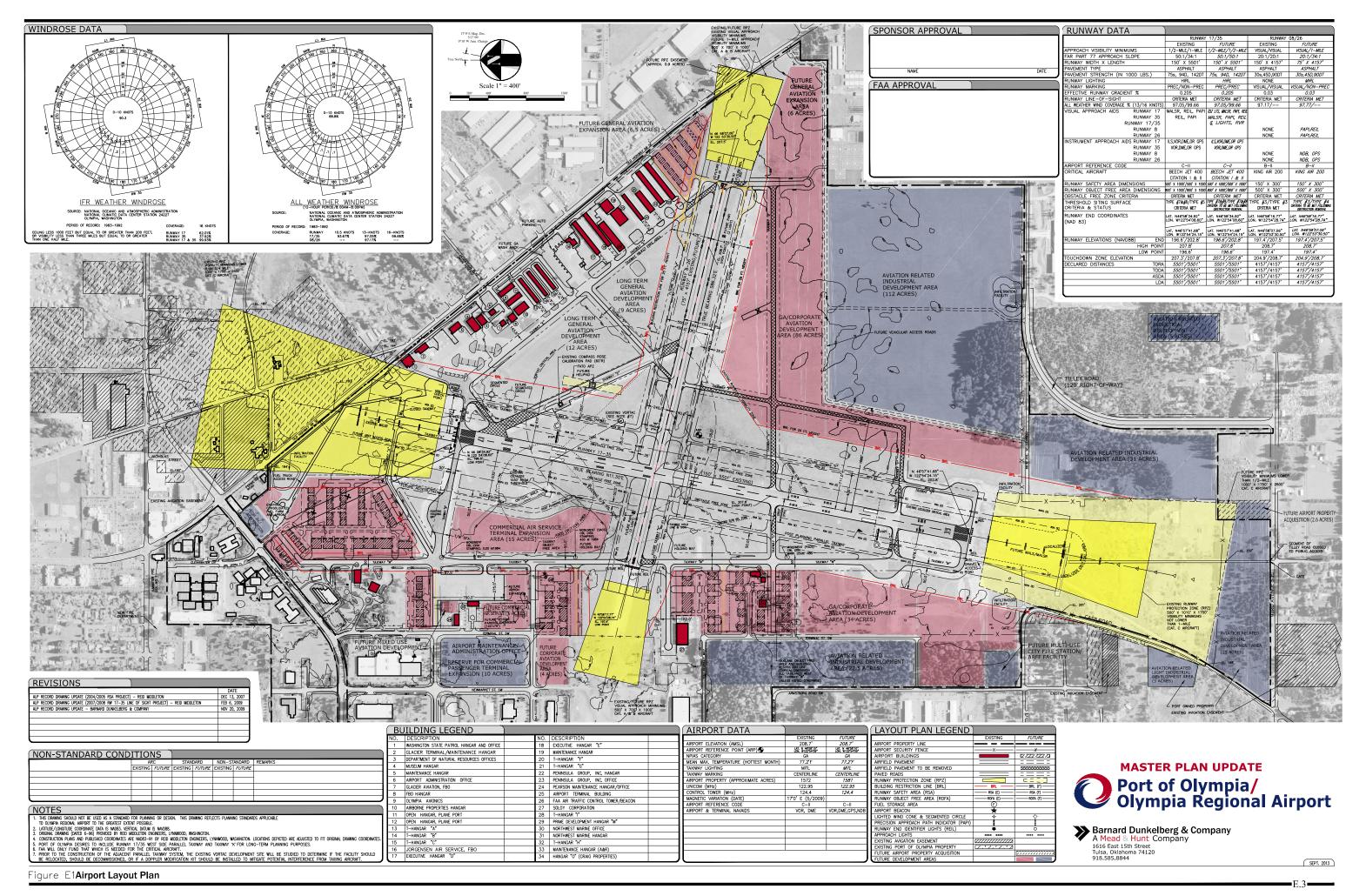
Airport Reference Code (ARC) Dimensional Criteria. As described in previous chapters, this runway is currently designed to Airport Reference Code (ARC) C-II design criteria. The ALP will continue to illustrate and the Airport will maintain standards in accordance with this ARC criteria.

Dimensions. The existing dimensions of this runway will be maintained at 150 feet in width and 5,501 feet in length. No changes to the width or length of this runway are proposed.

Pavement Strength. The runway's existing published gross weight bearing capacity (i.e., 75,000 pounds single wheel, 94,000 pounds dual wheel, and 142,000 pounds dual-tandem wheel main landing gear configuration) will be maintained.

Instrument Approach Procedures (IAPs). As presented in the previous chapters, it is recommended that the Runway 17 Instrument Approach Procedure (IAP) be upgraded to 1,800 feet Runway Visual Range (RVR) approach visibility minimums. The Airport will continue to plan and protect for a GPS (LPV) IAP providing ½-statute mile visibility minimums to Runway 35.





Runway Protection Zone (RPZ). When the Runway 35 GPS (LPV) IAP is designed and published, the size of the Runway Protection Zone (RPZ) associated with this runway end will increase to 1,000 feet x 1,750 feet x 2,500 feet. The existing Runway 17 RPZ will be maintained at 1,000 feet x 1,750 feet x 2,500 feet.

Runway Lights (HIRL), Precision Approach Path Indicator (PAPI) lights, and the Runway 17 Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights (MALSR) be maintained. Touchdown Zone (TDZ) lights and Runway Centerline Lights (RCL) are required when the Runway 17 IAP upgrade to 1,800 feet RVR approach minimums is implemented. A single RVR TDZ sensor will also be required. When the Runway 35 GPS (LPV) IAP is designed and published, MALSR will be required to support the approach minimums.

Runway 08/26.

ARC Dimensional Criteria. Runway 08/26 will be maintained to ARC B-II dimensional criteria.

Dimensions. The existing runway width of 150 feet exceeds the ARC B-II dimensional criteria of 75 feet. Therefore, in accordance with ARC B-II dimensional criteria, the Runway 08/26 width will be decreased to 75 feet.

Pavement Strength. The existing Runway 08/26 published gross weight bearing capacity (i.e., 30,000 pounds single wheel, 45,000 pounds dual wheel, and 90,000 pounds dual-tandem wheel main landing gear configuration) will be maintained.

Instrument Approach Procedures (IAPs). As recommended in the previous chapters, an IAP with visibility minimums of 1-statute mile should be designed and published for Runway 26.

Runway Protection Zone (RPZ). The existing RPZs for this runway are adequate in size for the recommended ARC and IAPs. No changes are recommended.

Lighting and Navigation Aids. Because the IAP with approach visibility minimums of 1-statute mile is proposed for Runway 26, it is recommended that Medium Intensity



Runway Lights (MIRL) be installed to support night minimums. Additionally, PAPI are recommended for installation to Runway 26.

Taxiway System

The development recommendations for the airport's taxiway system are presented in the following narrative.

Runway 17/35 Taxiway System.

Dimensions. The Airport Layout Drawing will continue to reflect the provision of an ultimate dual parallel taxiway system to both the east and west of the runway. Taxiway "W" will continue to be maintained to ARC C-III dimensional standards to preserve future opportunities for serving larger commercial service passenger aircraft and to accommodate occasional large business jets.

Configuration. As presented in the previous chapters, Taxiways "G" and "L" are programmed for realignment to intersect the runway at 90° angles. The provision of an east side parallel taxiway will alleviate the non-standard taxiway intersections of Taxiways "C" and "D".

Pavement Strength. The existing gross weight bearing capacity of Taxiways "F", "C", and "W" will be evaluated and confirmed in conjunction with the specified design/engineering of the various taxiway development projects.

Taxiway Lighting. The provision of Medium Intensity Taxiway Lights (MITL) on Taxiway "E", "F", and "L" is recommended. All future taxiways constructed at the Airport should include MITL and signage, as appropriate.

Runway 08/26 Taxiway System.

Dimensions. The Airport Layout Drawing will continue to reflect the provision of an ultimate dual parallel taxiway system to both the north and south ends of Runway 08/26, implemented to ARC B-II dimensional standards.

Configuration. As presented in the previous chapters, Taxiways "C", "E", "F", "G" and "W" are programmed for realignment to intersect the runway at 90° angles.



Pavement Strength. The proposed taxiway improvements should be designed, engineered, and constructed commensurate with the design pavement strength determined at the next pavement reconstruction interval based on the future design aircraft.

Taxiway Lighting. All future taxiways constructed at the Airport should include MITL and signage, as appropriate.

Property/Easement Acquisition

The Airport presently owns the majority of the property associated with the existing RPZs at each runway end. However, it is proposed that the Port of Olympia acquire one parcel of property (approximately 2.6 acres) located at the southeast corner of the future Runway 35 RPZ. Additionally, the acquisition of easements within the Runways 35 and 26 approach areas will be required to remove obstructions before implementing the IAP upgrades proposed for the runways.

Airspace Drawing

In order to protect the airport's airspace and approaches from hazards that could affect the safe and efficient operation of aircraft, federal criteria contained in the Federal Aviation Regulations (FAR) Part 77. Objects Affecting Navigable Airspace, have been established to provide guidance in controlling the height of objects near airports. The Airspace Drawing for Olympia Regional Airport is based upon Part 77 criteria and specifies a set of imaginary surfaces that, when penetrated, designates an object as being an obstruction. However, some obstructions can be determined to be non-hazardous by an aeronautical study by virtue of their location and/or marked and lighted as specified in the aeronautical study determination. Airfield navigational aids, as well as lighting and visual aids, by nature of their function and location, may constitute obstructions, but these objects do not violate Part 77 criteria, since they are essential to the operation of the Airport.

The AIRPORT AIRSPACE DRAWINGS, illustrated in the following figures, provide plan and profile views depicting the FAR Part 77 criteria as they specifically relate to Olympia Regional Airport. The criteria are based on the ultimate planned runway lengths, the ultimate planned IAP to each runway end, and the ultimate planned airport elevation. Therefore, Runway 17/35 criteria are based on the larger-than-utility aircraft category (i.e., runways designated for aircraft weighing in



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1	TREE	393'	34'	HORIZONTAL	TO REMAIN	19	ANTENNA ON OL TOWER	505'	1*	CONICAL	TO REMAIN	۱Г
2	TREE	493'	134"	HORIZONTAL	TO REMAIN	20	OL ON GLIDESLOPE	228'	31"	PRIMARY	TO REMAIN	۱Г
3	TREE	508'	149"	HORIZONTAL	TO REMAIN	21	ANTENNA ON OL AIR TRAFFIC CONTROL TOWER	287	3'	INNER TRANSITIONAL	TO REMAIN	П
4	TREE	483	107'	CONICAL	TO REMAIN	22	OL AIRPORT BEACON ON WATER TANK	362'	3'	HORIZONTAL	TO REMAIN	П
5	TREE	502"	138'	CONICAL	TO REMAIN	23	NOT USED					П
6	TREE	527'	109"	CONICAL	TO REMAIN	24	NOT USED					П
7	TREE	534'	79'	CONICAL	TO REMAIN	25	NOT USED					ıΓ
8	TREE	547'	103'	CONICAL	TO REMAIN	26	NOT USED					ıΓ
9	TREE	423'	64'	HORIZONTAL	TO REMAIN	27	NOT USED					ıΓ
10	TREE	416'	57'	HORIZONTAL	TO REMAIN	28	TREE	312'	NONE	R/W 08 APPRAOCH	TO REMAIN	П
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12	NOT USED					30	TREE	270'	21"	R/W 26 APPRAOCH	VERIFY AND REMOVE	ıΓ
13	NOT USED					31	TREE	264'	2'	R/W 26 APPRAOCH	VERIFY AND REMOVE	ıΓ
14	NOT USED					32	TREE	278'	10'	R/W 26 APPRAOCH	VERIFY AND REMOVE	П
15	GROUND	209'	2'	PRIMARY	VERIFY AND REMOVE	33	TREE	323'	36'	R/W 26 APPRAOCH	VERIFY AND REMOVE	ιГ
16	TREE	264	12'	INNER TRANSITIONAL	VERIFY AND REMOVE	34	TREE	314'	20"	R/W 26 APPRAOCH	VERIFY AND REMOVE	ıΕ
17	OL ON VORTAC	236'	37'	PRIMARY	TO REMAIN	35	TREE	304	3'	R/W 26 APPRAOCH	VERIFY AND REMOVE	ιГ

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	No.	ITEM	ELEV.	AMOUNT OF PENETRATION	AFFECTED SURFACE	DISPOSITION
	37	NOT USED				
	38	TREES	251.9	5'±	R/W 35 APPROACH	VERIFY AND REMOVE
	39	TREES	256.4	7'±	R/W 35 APPROACH	VERIFY AND REMOVE
	356	WINDCONE	212'	10.5'	PRIMARY	TO REMAIN
		CONTINUATION OF TABLE ON SHEET 6	OF 11			

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						TERRAIN OR TREE OBSTRUCTION		
						NOTES: 1. IMAGINARY SURFACES TAKEN FROM NAVIGABLE AIRSPACE." 2. TOPOGRAPHICAL MAPS SHOWN ARI		
						"FAST OLYMPIA." "RUCODA." "LACE		

ALP RECORD DRAWING UPDATE - BARNARD DUNKELBERG & COMPANY

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A Mead & Hunt Company
1616 East 15th Street
Tulsa, Oklahoma 74120
918.585.8844

Figure E2 Airport Airspace North Approach Plan

18 OL ON LIGHTED WINDSOCK

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No.	ITEM	ELEV.	AMOUNT OF PENETRATION	AFFECTED SURFACE	DISPOSITION
1	TREE	393'	34'	HORIZONTAL	TO REMAIN
2	TREE	493'	134'	HORIZONTAL	TO REMAIN
3	TREE	508'	149'	HORIZONTAL	TO REMAIN
4	TREE	483'	107'	CONICAL	TO REMAIN
5	TREE	502'	138'	CONICAL	TO REMAIN
6	TREE	527'	109'	CONICAL	TO REMAIN
7	TREE	534'	79'	CONICAL	TO REMAIN
8	TREE	547'	103'	CONICAL	TO REMAIN
9	TREE	423'	64'	HORIZONTAL	TO REMAIN
10	TREE	416'	57'	HORIZONTAL	TO REMAIN
11	NOT USED				
12	NOT USED				
13	NOT USED				
14	NOT USED				
15	GROUND	209'	2'	PRIMARY	VERIFY AND REMOVE
16	TREE	264'	12'	INNER TRANSITIONAL	VERIFY AND REMOVE
17	OL ON VORTAC	236'	37'	PRIMARY	TO REMAIN
18	OL ON LICHTED WINDSOCK	224'	17'	PRIMARY	TO REMAIN

PA	RT 77 OBSTRUCTIO	NS `			
No.	ITEM	ELEV.	AMOUNT OF PENETRATION	AFFECTED SURFACE	DISPOSITION
19	ANTENNA ON OL TOWER	505"	1"	CONICAL	TO REMAIN
20	OL ON GLIDESLOPE	228'	31'	PRIMARY	TO REMAIN
21	ANTENNA ON OL AIR TRAFFIC CONTROL TOWER	287'	3'	INNER TRANSITIONAL	TO REMAIN
22	OL AIRPORT BEACON ON WATER TANK	362'	3'	HORIZONTAL	TO REMAIN
23	NOT USED				
24	NOT USED				
25	NOT USED				
26	NOT USED				
27	NOT USED				
28	TREE	312	NONE	R/W 08 APPRAOCH	TO REMAIN
29	NOT USED				
30	TREE	270'	21'	R/W 26 APPRAOCH	VERIFY AND REMOVE
31	TREE	264'	2'	R/W 26 APPRAOCH	VERIFY AND REMOVE
32	TREE	278"	10'	R/W 26 APPRAOCH	VERIFY AND REMOVE
33	TREE	323'	36'	R/W 26 APPRAOCH	VERIFY AND REMOVE
34	TREE	314'	20*	R/W 26 APPRAOCH	VERIFY AND REMOVE
35	TREE	304'	3'	R/W 26 APPRAOCH	VERIFY AND REMOVE
36	HANGAR	229'	24'	INNER TRANSITIONAL	TO BE LIGHTED

	WW.	PLAN VIEW	SOUT			
	PA	RT 77 OBSTRUCTIO	NS)			
	No.	ITEM	ELEV.	AMOUNT OF PENETRATION	AFFECTED SURFACE	DISPOSITION
	37	NOT USED				
1	38	TREES	251.9'	5'±	R/W 35 APPROACH	VERIFY AND REMOVE
1	39	TREES	256.4'	7'±	R/W 35 APPROACH	VERIFY AND REMOVE
1	356	WINDCONE	212'	10.5'	PRIMARY	TO REMAIN
		CONTINUATION OF TABLE ON SHEET 6	0F 11			
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-		PART 77 TRANSITIONAL SURFACE		
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 3. OBSTRUCTION SURVEY BY REID MODILETON, EVERETT, WA 03/09/2009 4. REFER TO INNER APPROACH DRAWINGS FOR CLOSE IN OBSTRUCTIONS.

 5. ELEVATIONS ARE NAVD88.

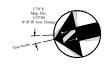
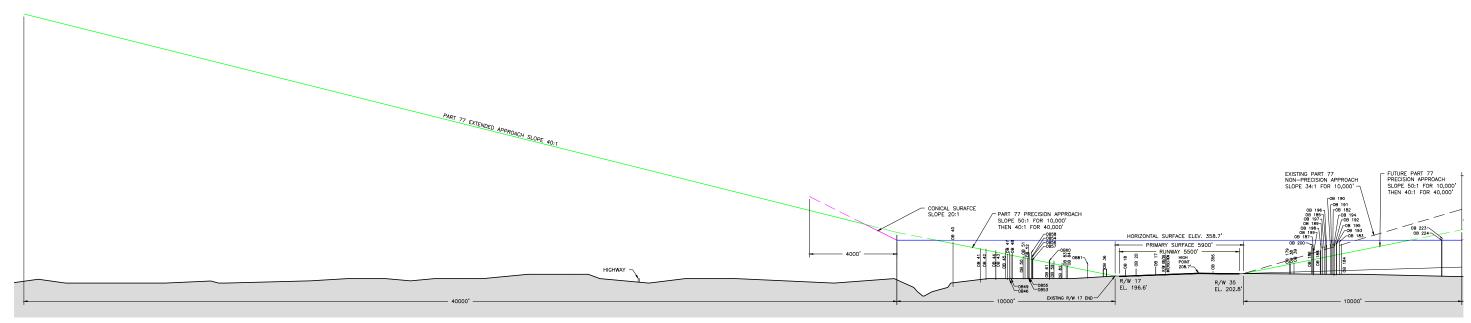
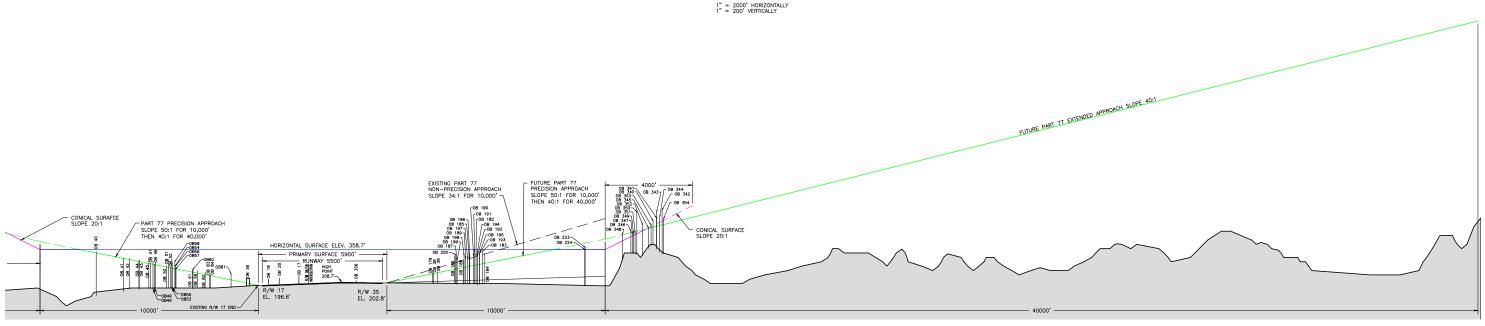




Figure E3 Airport Airspace South Approach Plan



RUNWAY 17 EXTENDED APPROACH PROFILE

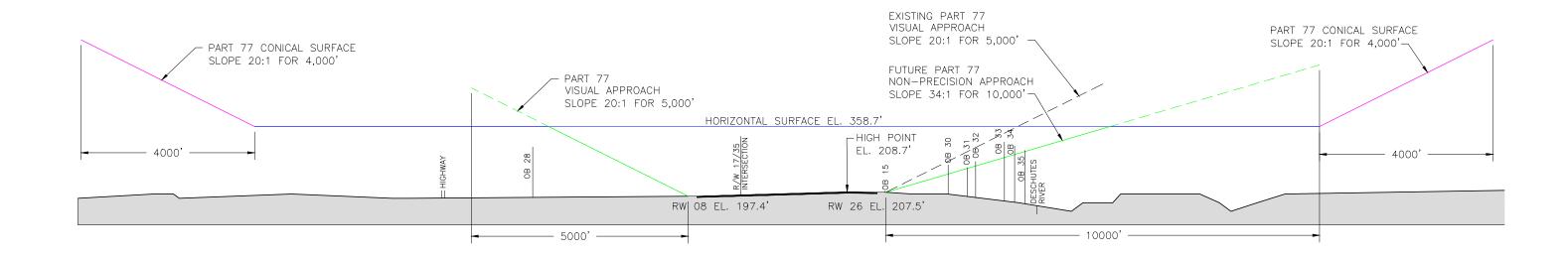


RUNWAY 35 EXTENDED APPROACH PROFILE 1" = 2000' HORIZONTALLY 1" = 2000' VERTICALLY

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						20	OL ON GLIDESLOPE	228'	31'	PRIMARY	TO REMAIN	38 39 356	TREES TREES WINDCONE CONTINUATION OF TABLE ON SHEET 6	251.9' 256.4' 212'	5'± 7'± 10.5'	R/W 35 APPROACH R/W 35 APPROACH PRIMARY	VERIFY AND REMOVE VERIFY AND REMOVE TO REMAIN	LAYOUT PLAN LEGEND ARPORT PROPERTY LINE
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Figure E4 Airport Airspace Runway 17/35 Profile



RUNWAY 08/26 APPROACH PROFILE

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15	GROUND	209'	2*	PRIMARY	VERIFY AND REM

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No.	ITEM	ELEV.	AMOUNT OF PENETRATION	AFFECTED SURFACE	DISPOSITION
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28	TREE	312"	NONE	R/W 08 APPRAOCH	TO REMAIN
30	TREE	270'	21'	R/W 26 APPRAOCH	VERIFY AND REMOV
31	TREE	264'	2'	R/W 26 APPRAOCH	VERIFY AND REMOV
32	TREE	278'	10'	R/W 26 APPRAOCH	VERIFY AND REMOV
33	TREE	323'	36'	R/W 26 APPRAOCH	VERIFY AND REMOV
34	TREE	314'	20'	R/W 26 APPRAOCH	VERIFY AND REMOV
35	TREE	304'	3'	R/W 26 APPRAOCH	VERIFY AND REMOV

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PART 77 HORIZONTAL SURFACE		
PART 77 CONICAL SURFACE		
PART 77 TRANSITIONAL SURFACE		
NOTES: 1. IMAGNARY SURFACES TAKEN FROM NAVIGABLE ARSPACE? 2. TOROGRAPHICAL MAPS SHOWN ARE FAST OLYMPA, "BUCOAN," LACE TROCHESTER," SUMMIT LAKE," THE MASHINGTON STATE. 3. OSSTRUCTION SURVEY BY REID MI 4. REFER TO INNER APPROACH DRAW 5. ELEVATIONS ARE NAVIOSB.	E USGS QUADRANGLE MAY," "LITTLEROCK," "MAYT JMWATER," AND "VIOLET IDDLETON, EVERETT, WA	APS OWN," PRAIRIE" 03/09/2009.



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40 TREE 41 TREE	350.6' RW17 APP 320.6' RW17 APP	6.4'	AIRSPACE DETERMINATION REQUIRED	172		345.3' 342.9'	INNER TRANS.	46.9'	AIRSPACE DETERMINATION REQUIRED	304	TRE	E 439.	9,	CONICAL	63.8' 82.3'	AIRSPACE DETERMINATION REQUIRED
42 TREE 43 TREE	319.1' RW17 APP 311.2' RW17 APP	5.2' 6.4'		174	TREE	344.1' 329.7'	INNER TRANS.	33.2'		306	TRE	E 451.	6'	CONICAL	87.3 97.8'	*
44 TREE 45 TREE	306.5' RW17 APP 320.4' RW17 APP	1.4'		176		309.4' 319.5'	INNER TRANS.	52.1'		308	TRE	E 477.	2	CONICAL	117.5' 145.1'	
46 TREE 47 TREE	306.0' RW17 APP 296.0' RW17 APP	13.8'		178	TREE	290.9' 265.3'	INNER TRANS. RW35 APP			310	TRE	E 488.	9'	CONICAL	129.2' 118.2'	
48 TREE 49 TREE	300.2' RW17 APP 292.6' RW17 APP	10.5'		180	TREE	369.6' 367.4'	INNER TRANS.	9.9'	n	312	TRE	E 425.	1'	CONICAL	64.2' 86.1'	
50 TREE 51 TREE	284.5' RW17 APP 313.4' RW17 APP	4.6'		182	TREE	331.6' 351.5'	RW35 APP RW35 APP	3.0' 19.6'	n n	314	TRE	E 469.	8'	CONICAL	108.4' 103.0'	•
52 TREE 53 TREE	278.8' RW17 APP 316.7' RW17 APP	2.8'		184	TREE	341.0' 316.3'	RW35 APP RW35 APP	6.3'	n n	316	TRE	E 485.	1'	CONICAL	124.1' 112.2'	•
54 TREE 55 TREE	283.2' RW17 APP 300.7' RW17 APP	1.5'	,	186	TREE	336.9' 311.8'	RW35 APP RW35 APP	41.8'	9	318	TRE	E 465.	5′	CONICAL	96.2'	-
56 TREE 57 TREE	282.1' RW17 APP 271.1' RW17 APP	10.3'	,	188		312.0' 319.8'	RW35 APP RW35 APP	6.0'	9	320	TRE	E 428.	7'	CONICAL	50.0' 64.3'	
58 TREE 59 TREE	303.9' RW17 APP 263.3' RW17 APP	31.8'	,	190	TREE	330.5' 350.0'	RW35 APP RW35 APP	10.7'		322	TRE	E 432.	1'	CONICAL	48.0' 50.4'	
60 TREE 61 TREE	268.0' RW17 APP 266.5' RW17 APP	12.6'	,	192		329.4' 340.8'	RW35 APP RW35 APP	4.8'		324	TRE	E 424.	6'	CONICAL	40.0' 92.6'	
62 TREE 63 TREE	295.9' INNER TRANS.	19.1'		194	TREE	343.1' 345.3'	RW35 APP RW35 APP	18.6'		326	TRE	E 454.	8'	CONICAL	79.3' 63.9'	
64 TREE 65 TREE	313.9' INNER TRANS. 284.8' INNER TRANS.	17.7'		196		327.6' 320.0'	RW35 APP RW35 APP	13.2'		328	TRE	E 450.	0'	CONICAL	70.5' 72.6'	
66 TREE 67 TREE	299.4' INNER TRANS. 293.6' INNER TRANS.	1.2'	,	198	TREE	338.8' 311.1'	RW35 APP RW35 APP	32.0' 13.7'		330	TRE	E 429.	4'	CONICAL	66.4' 69.4'	*
68 TREE 69 TREE	279.8' INNER TRANS. 287.5' INNER TRANS.	3.2'		200		330.6' 377.3'	RW35 APP INNER TRANS.	36.4		332	TRE	E 385.	6'	CONICAL	14.6'	-
70 TREE 71 TREE	265.4' INNER TRANS. 268.5' INNER TRANS.	16.1'		202	TREE	387.6' 360.6'	INNER TRANS.		и	334	TRE	E 415.	8'	CONICAL	7.0'	
72 TREE 73 TREE	291.7' INNER TRANS. 261.9' INNER TRANS.	21.4'		204	TREE	366.7' 367.9'	HORIZONTAL	7.1'		336	TRE	E 419.	1'	CONICAL	16.5' 5.5'	
74 TREE 75 TREE	265.3' INNER TRANS. 296.6' INNER TRANS.	18.4'	J	206	TREE	369.3' 395.8'	HORIZONTAL HORIZONTAL	9.7'	n n	338	TRE TRE	E 493.	8'	TRANSITIONAL TRANSITIONAL	7.0'	# #
76 TREE 77 TREE	304.4' INNER TRANS. 298.0' INNER TRANS.	23.2'	, , , , , , , , , , , , , , , , , , ,	208	TREE	392.2' 367.8'	HORIZONTAL HORIZONTAL	32.6' 8.1'	<u>u</u>	340	TRE TRE	E 491.	3'	RW35 APP RW35 APP	15.4' 24.1'	
78 TREE 79 TREE	274.8' INNER TRANS. 294.2' INNER TRANS.	2.5'	, , , , , , , , , , , , , , , , , , ,	210	TREE	371.6' 373.0'	HORIZONTAL HORIZONTAL	11.9'	n n	342	TRE TRE	E 540.	9'	RW35 APP RW35 APP	49.0'	
80 TREE 81 TREE		40.3' 28.7'	"	212	TREE	398.3' 381.3'	HORIZONTAL HORIZONTAL	38.6' 21.7'	2	344	TRE	E 508.	4'	RW35 APP RW35 APP	23.0'	-
82 TREE 83 TREE	255.0' RW17 APP 243.3' RW17 APP	10.7'	n n	214	TREE	360.4' 379.5'	HORIZONTAL HORIZONTAL	0.7'	2	346	TRE	E 442.	1'	CONICAL CONICAL	20.7'	-
84 TREE 85 TREE	243.9' RW17 APP	4.5' 28.0'	,	216	TREE	365.6' 383.0'	HORIZONTAL HORIZONTAL	5.9'	,	348	TRE TRE	E 428.	1'	CONCIAL	0.5' 7.7'	-
86 TREE 87 TREE		0.8' 4.0'	, n	218	TREE	363.8' 367.9'	HORIZONTAL HORIZONTAL	4.1' 8.3'	9	350	TRE TRE	E 532.	2'	CONCIAL	99.3' 7.7'	"
88 TREE 89 TREE	366.4' HORIZONTAL 366.4' HORIZONTAL	7.7'		220	TREE	376.5' 373.2'	HORIZONTAL HORIZONTAL	16.8' 13.6'		352	TRE	E 471.	1'	RW35 APP RW35 APP	25.1' 6.6'	
90 TREE 91 TREE	368.8' HORIZONTAL 364.9' HORIZONTAL	10.1'		222	TREE	375.3' 369.0'	HORIZONTAL HORIZONTAL	15.7'	8	354	TRE POL	E 501.	3'	RW35 APP HORIZONTAL	7.6'	
92 TREE 93 TREE	422.3' HORIZONTAL 366.4' HORIZONTAL	62.7' 7.7'		224	TREE	360.4' 384.4'	HORIZONTAL HORIZONTAL	0.7'				ONE 212		PRIMARY	10.5'	TO REMAIN
94 TREE 95 TREE	369.4' HORIZONTAL 367.0' HORIZONTAL	9.8' 7.3'	"	226	TREE	382.6' 400.4'	HORIZONTAL HORIZONTAL	23.0'	H			_				
96 TREE 97 TREE	372.3' HORIZONTAL 381.2' HORIZONTAL	12.6' 21.6'		228	TREE	380.6' 360.2	HORIZONTAL HORIZONTAL	21.0'		\vdash						
98 TREE 99 TREE	386.8' HORIZONTAL 390.4' HORIZONTAL	27.1' 30.8'		230	TREE	397.4' 390.2'	HORIZONTAL HORIZONTAL	37.8' 30.6'		F						
100 TREE 101 TREE	361.7' HORIZONTAL 368.6' HORIZONTAL	2.1'	,	232	TREE	412.6' 364.1'	HORIZONTAL HORIZONTAL	52.9' 4.5'								
102 TREE 103 TREE	366.1' HORIZONTAL 365.6' HORIZONTAL	6.4' 5.9'	3		TREE	382.2' 391.8'	HORIZONTAL HORIZONTAL	22.6' 32.2'	n n							
104 TREE 105 TREE	363.1' HORIZONTAL 360.2' HORIZONTAL	3.4' 0.5'	,	236	TREE	406.6' 393.0'	HORIZONTAL HORIZONTAL	46.9' 33.4'	,							
106 TREE 107 TREE	363.1' HORIZONTAL 360.1' HORIZONTAL	3.5' 0.4'	"		TREE	373.1' 399.8'	HORIZONTAL HORIZONTAL	11.5' 40.1'	n n							
108 TREE 109 TREE	378.1' HORIZONTAL 378.5' HORIZONTAL	18.4' 18.9'	,	240	TREE	370.5' 369.0'	HORIZONTAL HORIZONTAL	10.8'	,							
110 TREE 111 TREE	382.2' HORIZONTAL 365.7' HORIZONTAL	22.5' 6.0'	"	242	TREE	364.9' 375.2'	HORIZONTAL HORIZONTAL	5.3' 5.9'	"							
112 TREE 113 TREE	362.9' HORIZONTAL 364.7' HORIZONTAL	3.2' 5.0'	,	244	TREE	378.1' 395.7'	HORIZONTAL HORIZONTAL	18.5' 36.1'	"	F						
114 TREE 115 TREE	377.3' HORIZONTAL 385.4' HORIZONTAL	17.7' 25.8'	"		TREE	375.5' 389.5'	HORIZONTAL HORIZONTAL	15.9' 29.8'	"	F						
116 TREE 117 TREE	362.2' HORIZONTAL 376.3' HORIZONTAL	2.6' 16.6'	"	248	TREE	372.8' 422.4'	HORIZONTAL HORIZONTAL	13.2' 62.7'	"							
118 TREE 119 TREE	378.0' HORIZONTAL 373.4' HORIZONTAL	18.3' 13.8'			TREE	427.4' 374.5'	HORIZONTAL HORIZONTAL	67.7' 14.8'	H							
120 TREE	409.2' HORIZONTAL	49.5' 27.8'	"	252	TREE	389.7' 397.0'	CONICAL HORIZONTAL	24.2' 37.3'	0							
122 TREE 123 TREE		30.7' 18.8'		255	TREE	415.3' 413.7'	HORIZONTAL HORIZONTAL	55.7' 54.1'	н							
124 TREE 125 TREE		26.6' 7.1'	п		TREE	412.6' 381.7'	HORIZONTAL HORIZONTAL	52.9' 22.0'	H H							
126 TREE 127 TREE	385.7' HORIZONTAL 385.3' HORIZONTAL	26.1' 25.6'	0	258 259	TREE	426.2' 387.9'	HORIZONTAL HORIZONTAL	66.5 28.3	n n	E						
128 TREE 129 TREE	392.4' HORIZONTAL 366.5' HORIZONTAL	32.8' 6.9'	n n	260 261	TREE	410.7' 388.4'	HORIZONTAL HORIZONTAL	51.0' 28.7'	9	E						
130 TREE 131 TREE	359.8' HORIZONTAL 376.5' HORIZONTAL	0.2' 16.8'	9	262 263	TREE	431.4' 422.1'	HORIZONTAL HORIZONTAL	71.7' 62.5'	n	E						
132 TREE 133 TREE	365.2' HORIZONTAL 360.3' HORIZONTAL	5.6' 0.7'	,	264 265	TREE	425.0' 421.1'	HORIZONTAL HORIZONTAL	65.3' 61.5'	n n							
134 TREE 135 TREE	387.0' HORIZONTAL 390.6' HORIZONTAL	27.3' 30.9'	9	266 267	TREE	434.8' 452.2'	HORIZONTAL HORIZONTAL	75.2' 92.5'	B							
136 TREE 137 TREE	382.8' HORIZONTAL 398.3' HORIZONTAL	23.1' 38.6'	,	268 269	TREE	413.0' 426.9'	HORIZONTAL HORIZONTAL	53.4' 67.2'	9	E						
138 TREE 139 TREE	364.7' HORIZONTAL 360.4' HORIZONTAL	5.1' 0.7'	,	271	TREE	392.6' 373.9'	HORIZONTAL HORIZONTAL	32.9' 14.2'	"	E						
140 TREE 141 TREE	361.8' HORIZONTAL 364.9' HORIZONTAL	2.2' 5.3'	,	272 273	TREE	374.4' 424.6'	HORIZONTAL HORIZONTAL	14.8' 64.9'		E						
142 TREE 143 TREE	391.2' INNER TRANS.	10.7' 48.2'		275	TREE	448.1' 442.2'	HORIZONTAL HORIZONTAL	88.5' 82.6'	"	E						
144 TREE 145 TREE	369.7' HORIZONTAL 361.4' HORIZONTAL	10.0'	,	276 277	TREE	415.1' 442.2'	HORIZONTAL HORIZONTAL	55.5' 82.5'		E						
146 TREE 147 TREE	242.3' INNER TRANS.	3.1 7.5		279	TREE	426.2' 419.3'	HORIZONTAL HORIZONTAL	66.6' 52.2'	"	E						
148 TREE 149 TREE	342.3' INNER TRANS. 352.4' INNER TRANS.	26.9' 30.1'	"	280 281	TREE	437.3' 415.6'	HORIZONTAL HORIZONTAL	77.7' 54.6'	B B	E						
150 TREE 151 TREE	336.7' INNER TRANS.	9.3'	, , , , , , , , , , , , , , , , , , ,	283	TREE	460.4' 449.0'	HORIZONTAL HORIZONTAL	100.7' 89.4'	n	E						
	355.3' INNER TRANS. 341.8' INNER TRANS.	38.8' 12.9'	- -	285	TREE	439.6' 449.2'	CONICAL	80.0' 89.6'	- -	E						
154 TREE 155 TREE	372.6' INNER TRANS.		, , , , , , , , , , , , , , , , , , ,	287	TREE	424.4' 475.1'	HORIZONTAL HORIZONTAL	64.7' 115.4'	# P	E						
156 TREE 157 TREE	316.0' INNER TRANS. 317.8' INNER TRANS.	4.5' 0.4'	"	288 289	TREE	464.0' 462.4'	HORIZONTAL HORIZONTAL	104.3' 102.8'	n	E						
158 TREE 159 TREE	360.2' INNER TRANS.	0.7' 6.4'	9	290 291	TREE	429.1' 429.6'	HORIZONTAL HORIZONTAL	68.2' 70.0'	B	E						
160 TREE 161 TREE	298.3' INNER TRANS. 329.8' INNER TRANS.	4.2' 5.4'	,	293	TREE	419.1' 414.5'	HORIZONTAL HORIZONTAL	59.5' 54.9'	n							
162 TREE 163 TREE	303.8' INNER TRANS. 295.5' INNER TRANS.	4.0' 32.1'	,	295	TREE	429.9' 423.6'	HORIZONTAL HORIZONTAL	70.2' 64.0'	"	E						
165 TREE	348.6' INNER TRANS.	71.1'		297	TREE	503.9' 473.6'	HORIZONTAL HORIZONTAL	143.9' 113.9'	"	Е						
166 TREE 167 TREE	318.4' INNER TRANS.			299	TREE	479.6' 490.1'	CONICAL	119.9' 130.4'	"	E						
168 TREE 169 TREE	305.7' INNER TRANS. 281.4' INNER TRANS.	40.0'	,	301	TREE	496.1' 485.8'	HORIZONTAL CONICAL	136.4'	B							
170 TREE 171 TREE	329.9' INNER TRANS. 342.5' INNER TRANS.		"	302 303	TREE	476.0° 472.5°	CONICAL	116.3'	н	\vdash						
oxdot		1	1	. l	1	1	1	I	ı	- L						

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27 237 257 261 × 279 • 299 308 317 325 · 335 · 335 · 339
2432/32/1/290296313314328 333 334 334
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249 252 343 343
347

RUNWAY 35 APPROACH DETAIL

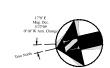


- ERRAIN OR TREE OBSTRUCTION
- NOTES: 1. IMAGINARY SURFACES, TAKEN FROM FAR PART 77 "OBJECTS AFFECTING NAVIGABLE ARISPACE."

 2. TOPOGRAPHICIAL MAPS SHOWN ARE USOS QUADRANGLE MAPS "EAST OLTMPIA," "BUCCOD," "LACEY," "LITILEROCK," "MAYTOWN," "ROCHESTER," "SUMMIT LAKE," "TUMWATER," AND "VOLET PRAIRIE" IN WASHINGTON STATE Y REID MIDDLETON, EVERETT, WA 03/09/2009.

 4. REFER TO INNER APPROACH DRAWINGS FOR CLOSE IN OBSTRUCTIONS.

 5. ELEVATIONS ARE NAVORB.





excess of 12,500 pounds gross weight) and having precision IAPs with visibility minimums less than ¾-statute mile. Runway 08/26 criteria are based on the larger-than-utility aircraft category, and having a non-precision IAP with visibility minimums greater than ¾-statute mile to Runway 26 and a visual approach to Runway 08.

FAR Part 77 Surfaces

As specified by FAR Part 77 Regulations, there are five defined imaginary surfaces, which include, the primary, the transitional, the horizontal, the conical, and the approach. Each imaginary surface is briefly defined in the following narrative.

Primary Surface. The primary surface is longitudinally centered on each runway and extends 200 feet beyond each runway end. The elevation of any point on the primary surface is the same as the nearest point on the runway centerline. Based upon the existing/future approach visibility minimums for each runway, the primary surface width for Runway 17/35 is 1,000 feet and 500 feet for Runway 08/26.

Transition Surface. Transitional surfaces extend upward and outward at right angles to the runway centerline, and the extended runway centerline, at the edges of the primary surface. A slope of 7 to 1 (i.e. one foot in elevation for every seven feet of horizontal distance) is applied to the transitional surfaces.

Horizontal Surface. The horizontal surface is a horizontal plane established at an elevation of 150 feet above the ultimate airport elevation. The perimeter of the horizontal surface is established by swinging arcs from the center of each end of the primary surface and connecting the arcs with tangent lines. The radii of the arcs at Olympia Regional Airport are 10,000 feet.

Conical Surface. The conical surface begins at the periphery of the horizontal surface and extends outward and upward at a slope of 20 to 1 (i.e., one foot in elevation for every 20 feet of horizontal distance). This surface extends for a horizontal distance of 4,000 feet.

Approach Surfaces. Approach surfaces are longitudinally centered on the extended runway centerlines. They extend outward and upward from each end of the primary surface. The inner edges are the same width as the primary surfaces (e.g., 1,000 feet for Runway 17/35). The horizontal distance of the approach surfaces is determined by the visibility minimums associated with each runway end. This translates into a distance of 50,000 feet for Runways 17 and 35, 10,000 feet for Runway 26, and 5,000 feet for Runway 08. Approach surfaces expand uniformly



along their entire length until reaching an outer edge width, which, again, is determined by the visibility minimums associated with each runway end. The outer edge width of Runways 17 and 35 is 16,000 feet, for Runway 26 it is 3,500 feet, and for Runway 08, it is 1,500 feet. The Runway 17 and 35 approach surfaces slope upward at a ratio of 50 to 1 for a horizontal distance of 10,000 feet, and an additional horizontal distance of 40,000 feet at a ratio of 40 to 1. For Runway 26, the approach surface slope is 34 to 1, which compares to 20 to 1 for Runway 08.

FAR Part 77 Obstructions

According to the application of the FAR Part 77 criteria, 356 obstructions are identified and distributed within the specified surfaces, of which, six are already equipped with obstruction lighting. It should be noted that these identified obstructions will be evaluated by the FAA through the airspace review process (i.e., an aeronautical study) to reach a hazard/no hazard determination and proposed disposition for each obstruction.

Inner Portion of the Approach Surface Drawings

To provide a more detailed view of the inner portion of the FAR Part 77 imaginary approach surfaces, the following drawings are provide that illustrate in greater detail the close-in portion of the approach surfaces associated with each runway end. Thus, the *INNER PORTION OF THE APPROACH SURFACE DRAWINGS* that follow provide large scale plan and profile delineation of the approach surfaces out to a distance where the surface is 100 feet above the runway end elevation. They are intended to facilitate identification of roads, utility lines, railroads, structures, trees, and other possible obstructions that may lie within the confines of, or near, the approach surfaces close to the runway ends.

As with the Airport Airspace Drawing, the Inner Portion of the Approach Surface Drawings are based upon the ultimate planned runway lengths, the ultimate planned approaches to each runway end, and the ultimate runway end elevations. Again, the Runways 17 and 35 criteria are based on larger-than-utility aircraft category with precision IAP having visibility minimums lower than ¾-statute mile. The Runway 08 criteria are based on larger-than utility aircraft category with visual approaches only. The Runway 26 criteria are based on larger-than-utility aircraft category with non-precision IAP having visibility minimums greater than ¾-statute mile.

These drawings also illustrate the approach clearance requirements specified by threshold siting criteria contained in Appendix Two of FAA Advisory Circular (AC) 150/5300-13. According to this information, "The standard shape, dimensions, and slope of the surface used for locating a





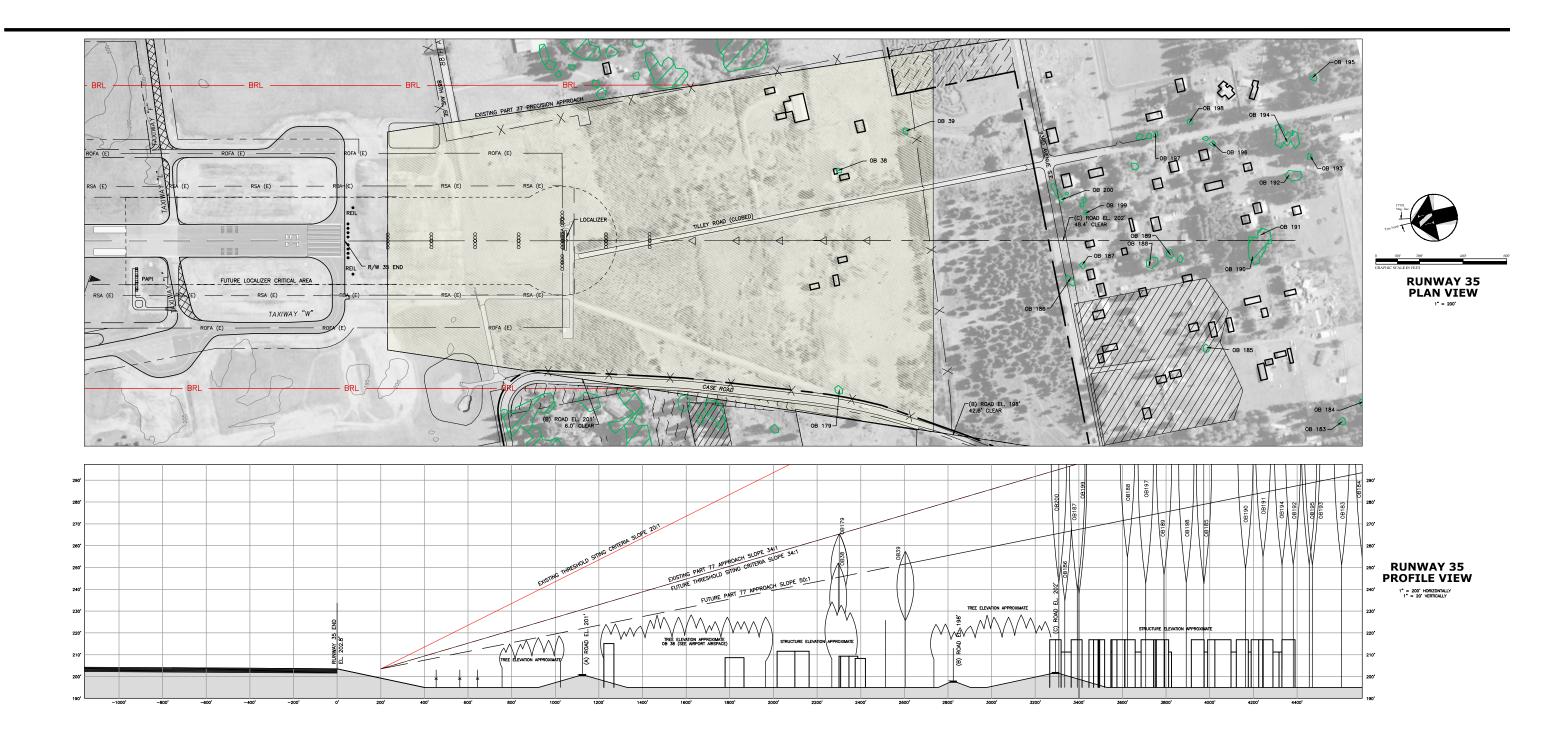
RUNWAY 17 PROFILE VIEW 1" = 200' HORIZONTALLY 1" = 20' VERTICALLY

ALP RECORD DRAWING UPDATE (2007/2008 RW 17-35 LINE OF SIGHT PROJECT) - REID MIDDLETON FEB 6, 20	<u> </u>	DATE
	ALP RECORD DRAWING UPDATE (2004/2005 RSA PROJECT) - REID MIDDLETON	DEC 13, 20
ALP RECORD DRAWING UPDATE - BHRWARD DUNKELBERG & COMPANY NOV 20, 2	ALP RECORD DRAWING UPDATE (2007/2008 RW 17-35 LINE OF SIGHT PROJECT) - REID MIDDLETON	FEB 6, 200
	ALP RECORD DRAWING UPDATE - BARNARD DUNKELBERG & COMPANY	NOV 20, 20

	ITEM	ELEV.	SURFACE	PENETRATION	DISPUSITION
46	TREE	306.0	RW17 APP	13.8	AIRSPACE DETERMINATION REQUIRED
47	TREE	296.0	RW17 APP	1.9	AIRSPACE DETERMINATION REQUIRED
48	TREE	300.2	RW17 APP	10.5	AIRSPACE DETERMINATION REQUIRED
49	TREE	292.6	RW17 APP	1.6'	AIRSPACE DETERMINATION REQUIRED
50	TREE	284.5'	RW17 APP	4.6'	AIRSPACE DETERMINATION REQUIRED
51	TREE	313.4	RW17 APP	35.3	AIRSPACE DETERMINATION REQUIRED
52	TREE	278.8	RW17 APP	2.8'	AIRSPACE DETERMINATION REQUIRED
53	TREE	316.7	RW17 APP	41.9	AIRSPACE DETERMINATION REQUIRED
54	TREE	283.2	RW17 APP	1.5'	AIRSPACE DETERMINATION REQUIRED
55	TREE	300.7	RW17 APP	26.3	AIRSPACE DETERMINATION REQUIRED
56	TREE	282.1	RW17 APP	10.3	AIRSPACE DETERMINATION REQUIRED
57	TREE	271.1'	RW17 APP	0.1'	AIRSPACE DETERMINATION REQUIRED
58	TREE	303.9	RW17 APP	31.8'	AIRSPACE DETERMINATION REQUIRED
59	TREE	263.3	RW17 APP	11.7	AIRSPACE DETERMINATION REQUIRED
60	TREE	268.0	RW17 APP	12.6	AIRSPACE DETERMINATION REQUIRED
82	TREE	255.0'	RW17 APP	10.7'	AIRSPACE DETERMINATION REQUIRED
83	TREE	243.3	RW17 APP	2.9"	AIRSPACE DETERMINATION REQUIRED
84	TREE	243.9	RW17 APP	4.5'	AIRSPACE DETERMINATION REQUIRED
_		_			

LAYOUT PLAN LEGEND	}		
	EXISTING	FUTURE	
AIRPORT PROPERTY LINE			
AIRPORT SECURITY FENCE	x	<i>x</i>	
AIRPORT BUILDINGS		[2 <i>772/72</i> /2]	
AIRFIELD PAVEMENT		====	
AIRFIELD PAVEMENT TO BE REMOVED		***************************************	
PAVED ROADS		====	
RUNWAY PROTECTION ZONE (RPZ)			
BUILDING RESTRICTION LINE (BRL)			i
RUNWAY SAFETY AREA (RSA)	RSA (E)	RSA (F)	4
RUNWAY OBJECT FREE AREA (ROFA)			-
FUEL STORAGE AREA	Ð	(E)	
AIRPORT BEACON	*	★	
LIGHTED WIND CONE & SEGMENTED CIRCLE	(T	₫	
PRECISION APPROACH PATH INDICATOR (PAPI)			,
RUNWAY END IDENTIFIER LIGHTS (REIL)		0	
APPROACH LIGHTS		0000 0000	
EXISTING AVIGATION EASEMENT	V/////////////////////////////////////		
EXISTING PORT OF OLYMPIA PROPERTY	7.7.7.7		
FUTURE AIRPORT PROPERTY ACQUISITION		777777777777777777777777777777777777777	





		DATE
ALP RECORD DRAWING UP	DATE (2004/2005 RSA PROJECT) - REID MIDDLETON	DEC 13, 2007
	DATE (2007/2008 RW 17-35 LINE OF SIGHT PROJECT) - REID MIDDLETON	FEB 6, 2009
ALP RECORD DRAWING UP	DATE — BARNARD DUNKELBERG & COMPANY	NOV 20, 2009

NOTES

THIS DRAWING SHOULD NOT BE USED AS A STANDARD FOR PLANNING OR DESIGN. THIS DRAWING REFLECTS PLANNING STANDARDS APPLICABLE
TO CHAMBIA REGIONAL AIRPORT TO THE OPERATEST EXTENT POSSIBLE THIS DRAWING SHOULD NOT BE LISED AS A STANDARD FOR PLANNING OR DESIGN.

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WERE REMOVED ACCORDING TO PROFESSIONAL SPECK LAWS SERVICES, INC. DOCUMENT PREPARED 02/03/95.

LATITUDE/CHORITUDE CODERINATE AIR SHOCKE MAYS SHEETS 2 THRU 5.

LATITUDE/CHORITUDE CODERINATE AIR SHOCKE MAYS SHEETS 2 THRU 5.

LATITUDE/CHORITUDE CODERINATE AIR SHOCKE MAYS SHEETS 2 THRU 5.

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LATITUDE/CHORITUDE CODERINATE SHEETS THRU 5.

RESPONSIBLE CONTROLLED SHEETS CHARLES SHEETS THRU 5.

LATITUDE/CHORITUDE CODERINATE SHEETS THRU 5.

LATITUDE/CHOR

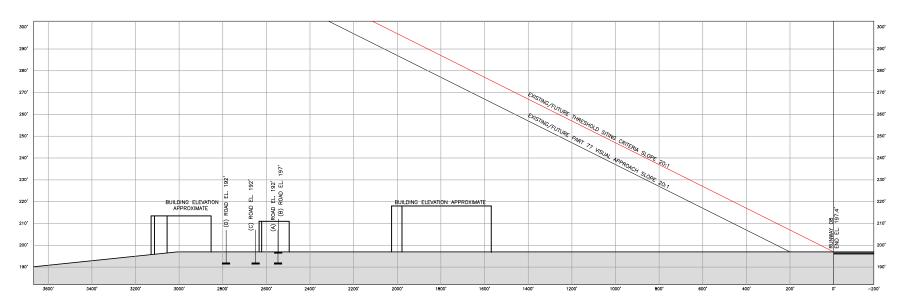
NO.	ITEM	ELEV.	SURFACE	PENETRATION	DISPOSITION			
38	TREE	251.9	RW35 APP	5.0"	VERIFY AND REMOVE			
39	TREE	256.4	RW35 APP	7.0	VERIFY AND REMOVE			
	TREE	265.3'	RW35 APP	0.8'	VERIFY AND REMOVE			
185	TREE	316.3	RW35 APP	2.4"	AIRSPACE DETERMINATION REQUIRED			
	TREE	336.9	RW35 APP	41.8	AIRSPACE DETERMINATION REQUIRED			
187	TREE	311.8	RW35 APP	14.8'	AIRSPACE DETERMINATION REQUIRED			
	TREE	312.0	RW35 APP	6.0"	AIRSPACE DETERMINATION REQUIRED			
189	TREE	319.8	RW35 APP	11.0'	AIRSPACE DETERMINATION REQUIRED			
	TREE	330.5	RW35 APP	10.7	AIRSPACE DETERMINATION REQUIRED			
191	TREE	350.0	RW35 APP	29.0'	AIRSPACE DETERMINATION REQUIRED			
	TREE	329.4	RW35 APP	4.8	AIRSPACE DETERMINATION REQUIRED			
193	TREE	340.8	RW35 APP	13.1	AIRSPACE DETERMINATION REQUIRED			
	TREE	343.1	RW35 APP	18.6*	AIRSPACE DETERMINATION REQUIRED			
	TREE	345.3	RW35 APP	17.2'	AIRSPACE DETERMINATION REQUIRED			
	TREE	327.6	RW35 APP	13.2	AIRSPACE DETERMINATION REQUIRED			
	TREE	320.0	RW35 APP	8.5'	AIRSPACE DETERMINATION REQUIRED			
	TREE	338.8	RW35 APP	32.0	AIRSPACE DETERMINATION REQUIRED			
	TREE	311.1	RW35 APP	13.7'	AIRSPACE DETERMINATION REQUIRED			
200	TREE	330.6	RW35 APP	36.4	AIRSPACE DETERMINATION REQUIRED			
SEE NOTES FOR SOURCE INFORMATION.								

	LAYOUT PLAN LEGEND			
		EXISTING	FUTURE	
	AIRPORT PROPERTY LINE			
-1	AIRPORT SECURITY FENCE	——х——	X	
_	AIRPORT BUILDINGS		[2 <i>12221221</i> 2]	
	AIRFIELD PAVEMENT		====	
-1	AIRFIELD PAVEMENT TO BE REMOVED		***************************************	
_	PAVED ROADS		====	
	RUNWAY PROTECTION ZONE (RPZ)			
-1	BUILDING RESTRICTION LINE (BRL)	BRL		
\neg	RUNWAY SAFETY AREA (RSA)	RSA (E)	RSA (F)	4
	RUNWAY OBJECT FREE AREA (ROFA)			3
-1	FUEL STORAGE AREA	Ð	(F)	
	AIRPORT BEACON	*	★	
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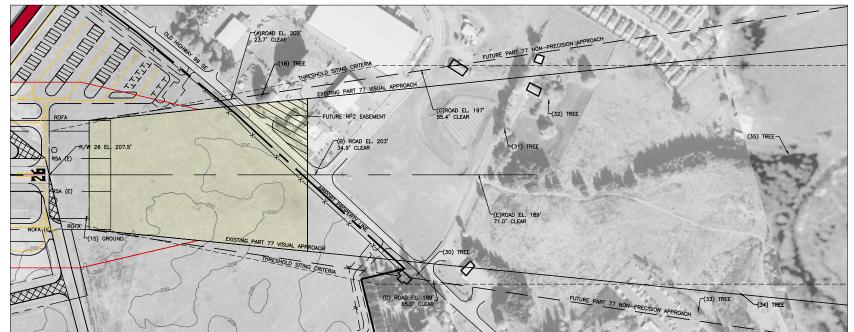
RUNWAY 08 PROFILE VIEW 1" = 200' HORIZONTALLY 1" = 20' VERTICALLY

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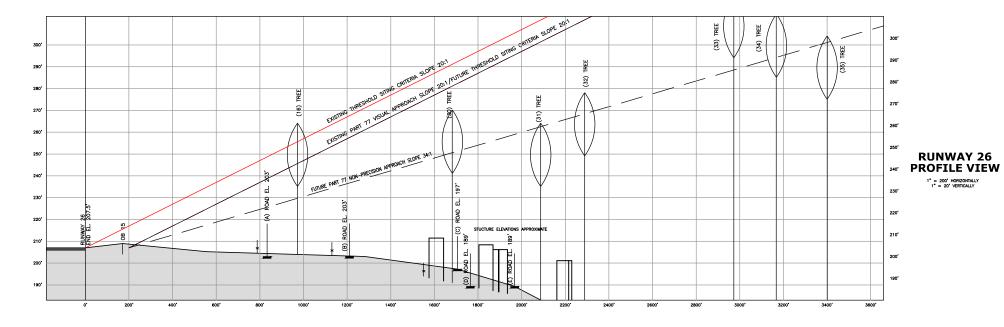
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32	TREE	278'	10"	RW 26 APPROACH	VERIFY AND REMOVE	RUNWAY PROTECTION ZONE (RPZ)	
33	TREE	323'	36'	RW 26 APPROACH	VERIFY AND REMOVE	BUILDING RESTRICTION LINE (BRL)	_
34	TREE	314'	20'	RW 26 APPROACH	VERIFY AND REMOVE	RUNWAY SAFETY AREA (RSA)	=
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SEE N	IOTES FOR SOURCE INFO	RMATION.			J	AIRPORT BEACON	П
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NO.	ITEM	ELEV.	PENETRATION	SURFACE	DISPOSITION	APPROACH LIGHTS	П



threshold are dependent upon the type of aircraft operations currently conducted or forecasted, the landing visibility minimums desired, and the types of instrumentation available or planned for that runway end." For Olympia Regional Airport, the following threshold siting surfaces were identified for evaluation:

Runways 17 and 35. Runway Type "9" [Approach end of runways expected to accommodate approaches with vertical guidance (Glideslope Qualification Surface (GQS)].

Runway 08. Runway Type "3" (Approach end of runways expected to accommodate large aircraft and visual approaches, or instrument approaches having visibility minimums of greater than or equal to one-statute mile, day only).

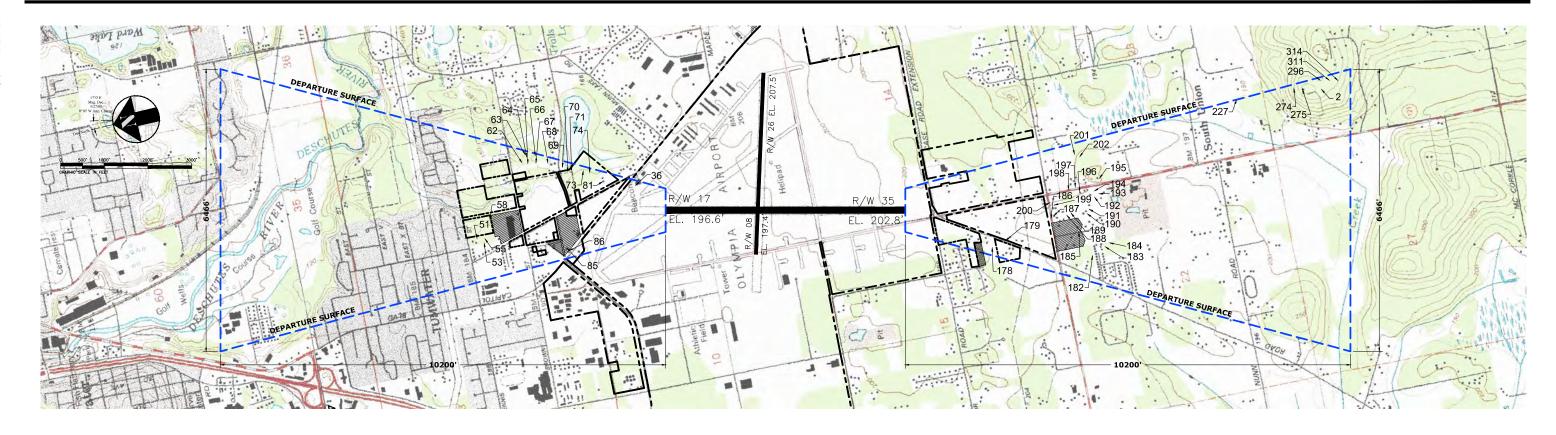
Runway 26. Runway Type "4" (Approach end of runways expected to support instrument night operations, serving approach category A and B aircraft only.

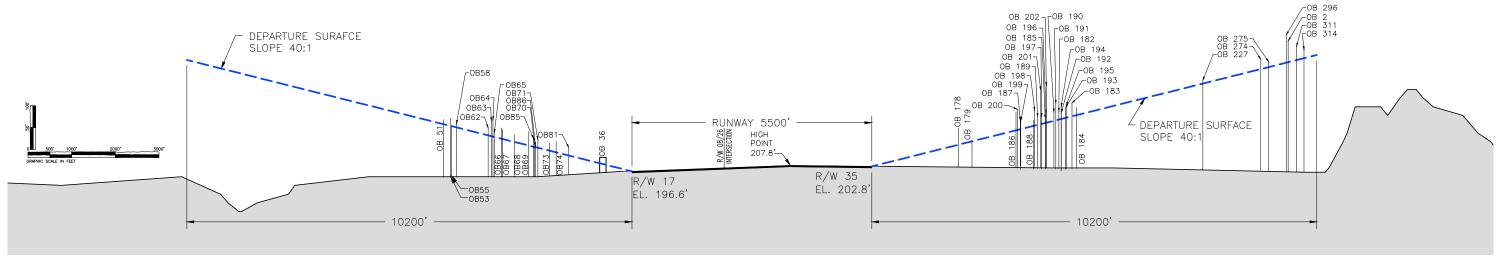
Runway Departure Surface Drawing

The following figure, entitled *RUNWAY 17/35 DEPARTURE SURFACE DRAWING*, is a large-scale plan and profile illustration depicting the dimension and slope of the Departure End of Runway (DER) surfaces associated with Runway 17/35. According to FAA AC 150/5300-13, Appendix Two, runways providing instrument departure capability to general aviation aircraft, no object should penetrate a surface beginning at the elevation of the DER or end of the clearway, whichever is greater, that slopes at a 40 to 1 gradient. Penetrations by existing obstacles of 35 feet or less do not require TODA reduction or other mitigations; however, they may affect new or existing departure procedures.

The Runway Departure Surface Drawing reflects the ultimate planned runway length, along with the ultimate planned departure surface extending from the runway end. The application of these criteria results in the identification of 51 obstructions (one hangar and the remainder trees) that will be evaluated by the FAA through the airspace review process (i.e., an aeronautical study). Regarding the disposition of these obstructions, it is likely that the trees will be recommended for removal or trimming. It is recommended that the hangar be marked and lighted in accordance with AC 70/7460-1K, *Obstruction Marking and Lighting*.







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		FLFV	SURFACE	PENETRATION	DISPOSITION		DESC	ELEV	SURFACE	PENETRATION	DISPOSITION
2			DEPARTURE	49'	NONE	187	TREE	311.8	DEPARTURE	21'	NONE
36	HANGAR		DEPARTURE	17'	TO BE LIGHTED	188	TREE	312.0	DEPARTURE	14'	"
51			DEPARTURE	11'	NONE	189	TREE	319.8	DEPARTURE	19'	,
53			DEPARTURE	18'	*	190	TREE	330.5	DEPARTURE	20'	,
55	TREE		DEPARTURE	2'		191	TREE	350.0	DEPARTURE	39'	,
58	TREE		DEPARTURE	9'	VERIFY AND REMOVE	192	TREE	329.4	DEPARTURE	15'	"
62			DEPARTURE	17'	NONE	193	TREE	340.8	DEPARTURE	24	"
63			DEPARTURE	35'	*	194	TREE	343.1	DEPARTURE	29'	,
64			DEPARTURE	38'		195	TREE	345.3	DEPARTURE	28'	"
65			DEPARTURE	10'		196	TREE	327.6	DEPARTURE	22'	*
66			DEPARTURE	25'	-	197	TREE	320.0	DEPARTURE	17'	"
67		293.6	DEPARTURE	23'	-	198	TREE	338.8'	DEPARTURE	35'	
68	TREE	279.8'	DEPARTURE	16'		199	TREE	311.1	DEPARTURE	20'	"
69			DEPARTURE	32'		200	TREE	330.6	DEPARTURE	48'	"
70	TREE	265.4'	DEPARTURE	12'		201	TREE	377.3	DEPARTURE	78'	"
71	TREE		DEPARTURE	18'		202	TREE	387.6	DEPARTURE	85'	"
73	TREE	261.9'	DEPARTURE	19'	*	227	TREE	400.4	DEPARTURE	8'	"
74	TREE	265.3	DEPARTURE	25'	VERIFY AND REMOVE	274	TREE	448.1	DEPARTURE	23'	"
81	TREE	249.3	DEPARTURE	19'		275	TREE	442.2	DEPARTURE	12'	"
85	TREE	272.3'	DEPARTURE	19'	NONE	296	TREE	503.9'	DEPARTURE	64'	"
86	TREE	254.3'	DEPARTURE	3'	•	311	TREE	477.8'	DEPARTURE	32'	"
178	TREE	290.9'	DEPARTURE	39'		314	TREE	469.8"	DEPARTURE	20'	"
179	TREE	265.3'	DEPARTURE	2'	VERIFY AND REMOVE						
182	TREE	331.6'	DEPARTURE	19'	NONE						
183	TREE	351.5'	DEPARTURE	31'	"						
184	TREE	341.0'	DEPARTURE	18'	"						
185	TREE	316.3'	DEPARTURE	11'	*						
186	TREE	336.9'	DEPARTURE	42'	"						

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3. OBSTRUCTION SURVEY BY REID MIDDLETON, EVERETT, WA 03/09/2009 4. REFERE TO INNER APPROACH DRAWINGS FOR CLOSE IN OBSTRUCTIONS.

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Figure E11 Runway 17/35 Departure Surace Drawing

Terminal Area Plans

Based upon input received from the Airport Sponsor and the projected aircraft storage improvements identified in previous chapters, the following hangar, apron, and access taxiway development improvements have been identified on the following illustrations, entitled NORTHEAST DEVELOPMENT AREA PLAN, NORTHWEST DEVELOPMENT AREA PLAN, TERMINAL AREA PLAN, SOUTHWEST DEVELOPMENT AREA PLAN, and SOUTHEAST DEVELOPMENT AREA PLAN.

Northeast Development Area Plan

General Aviation Development. Up to four additional T-hangars, of various sizes, can be developed in this area, as can additional apron space providing ten small aircraft tie-downs.

Vehicle Access. Vehicle access will continue to be provided by Old Highway 99 S.E., with future access points constructed where needed.

Northwest Development Area Plan

General Aviation Development. Multiple sizes of corporate hangars are programmed for post-planning period development in this area, from smaller Aircraft Design Group (ADG)-II hangars to larger ADG-III hangars.

Vehicle Access. Vehicle access can be provided by a new airport entrance road intersection with Tumwater Boulevard.

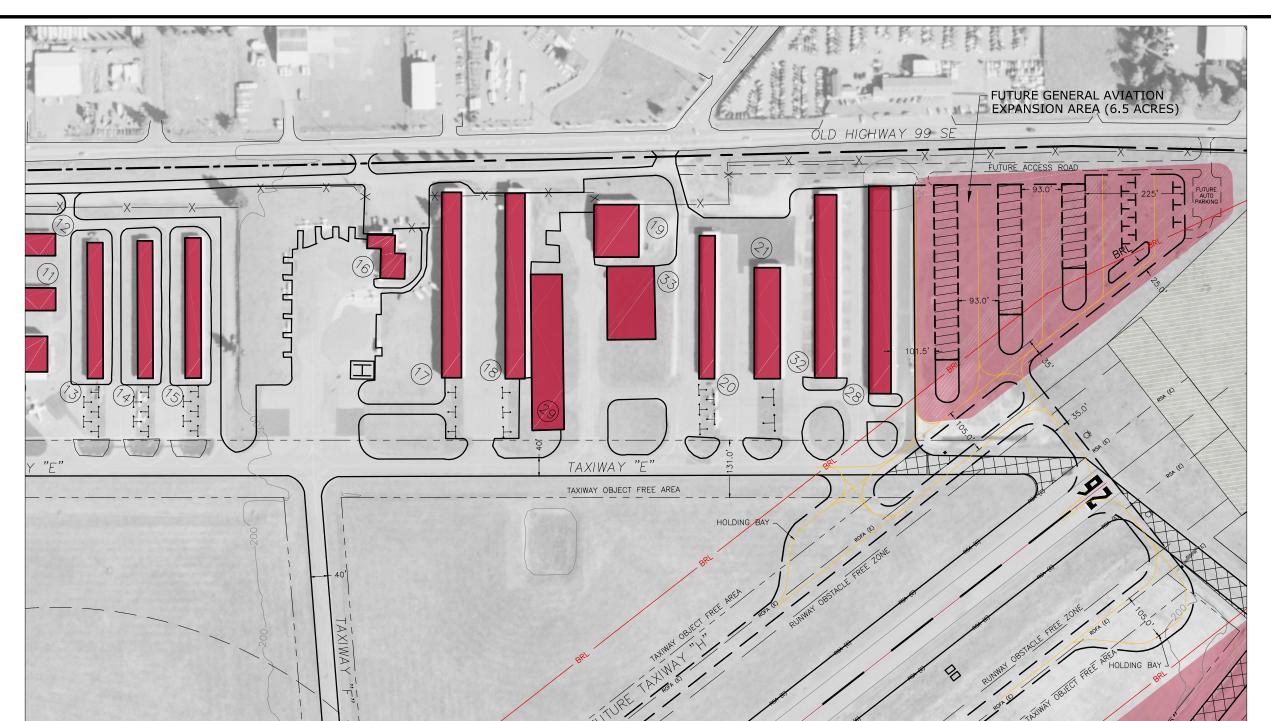
Aviation-Related/Compatible Development. Approximately 1.4 acres directly adjacent to Tumwater Boulevard are reserved for aviation-related/compatible development.

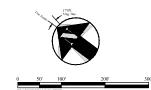
Aviation Support. Expansion of the fuel storage facility, as demand dictates, is programmed for the area.

Terminal Area Plan

Commercial Service Terminal Development. Approximately 5.0 acres of commercial service terminal and terminal apron expansion space is reserved to the south of the existing terminal building and apron. Additionally, approximately 21 acres of passenger terminal support facility development space is preserved west of Terminal Street S.W.





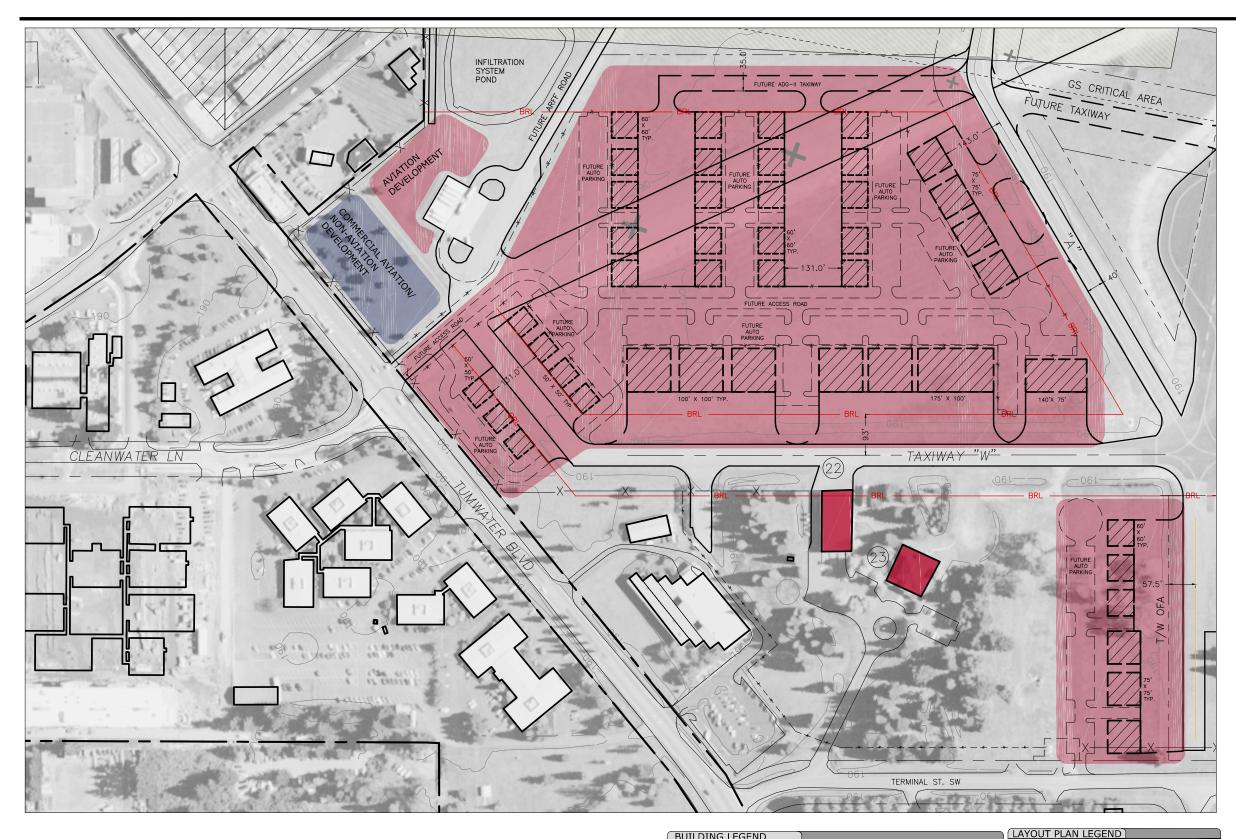


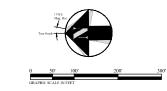
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		20	T-HANGAR *F"	
		21	T-HANGAR *G"	
10	AIRBORNE PROPERTIES HANGAR			
11	OPEN HANGAR, PLANE PORT	28	T-HANGAR "["	
12	OPEN HANGAR, PLANE PORT	29	PRIME DEVELOPMENT HANGAR "M"	
13	T-HANGAR 'A'			
14	T-HANGAR 'B'			
15	T-HANGAR "C"	32	T-HANGAR "H"	
16	GOWER FLIGHT SERVICE, FBO	33	MAINTENANCE HANGAR (A&R)	
17	EXECUTIVE HANGAR "D"			

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RUNWAY OBJECT FREE AREA (ROFA)		ROFA (F)
FUEL STORAGE AREA	(F)	(F)
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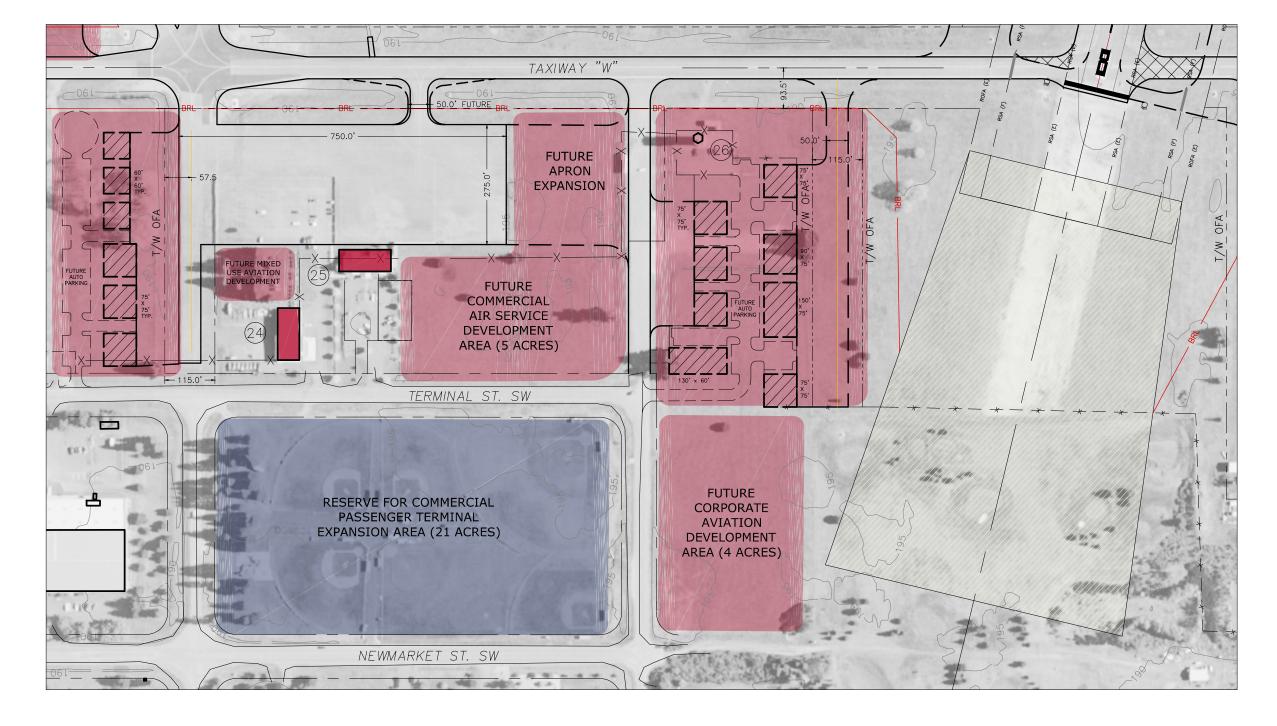
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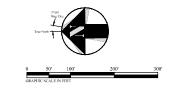
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Port of Olympia/ Olympia Regional Airport

Barnard Dunkelberg & Company
A Mead & Hunt Company
1616 East 15th Street
Tulsa, Oklahoma 74120
918.585.8844

Figure E13 Northwest Development Area Plan





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RUNWAY OBJECT FREE AREA (ROFA)		ROFA (F)
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General Aviation Development. ADG-II and -III corporate hangars are programmed for development within the areas north and south of the existing commercial service terminal building.

Vehicle Access. Terminal Street S.W. will continue to function as the primary vehicle access road serving the west development area. Additional connectors and parking areas will be provided as demand dictates.

Southwest Development Area Plan

General Aviation Development. Large hangar and corporate hangar development within ADG-II and III standards are proposed for this area.

Vehicle Access. Pat Kennedy Way S.W. and Terminal Street S.W. will continue to be the primary vehicular access routes for this area. Additional connectors and parking areas will be provided as demand dictates.

Southeast Development Area Plan

General Aviation Development. Post-planning period general aviation development is programmed for the areas south of Runway 08/26 and east of Runway 17/35. Approximately 86 acres are available for this type of development.

Aviation-Related/Compatible Development. Approximately 112 acres of property within the southeast development area are reserved for aviation-related/compatible light industrial uses.

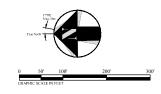
Vehicle Access. Additional vehicular connections to Old Highway 99 S.E. and 88th Avenue S.E. are illustrated, as are interior roadways providing access to the proposed development lots.

Land Use Drawing

Figure E16, entitled *LAND USE PLAN*, depicts existing and recommended use of all land within the ultimate airport property boundary. The purpose of the Land Use Drawing is to provide the Port of Olympia a plan for leasing revenue-producing areas on the Airport. All existing and future development within the Olympia Regional Airport boundary will be compatible with the primary purpose and function of the Airport, and will generate lease revenue to support the operation of the Airport. Some areas are not likely to be provided with



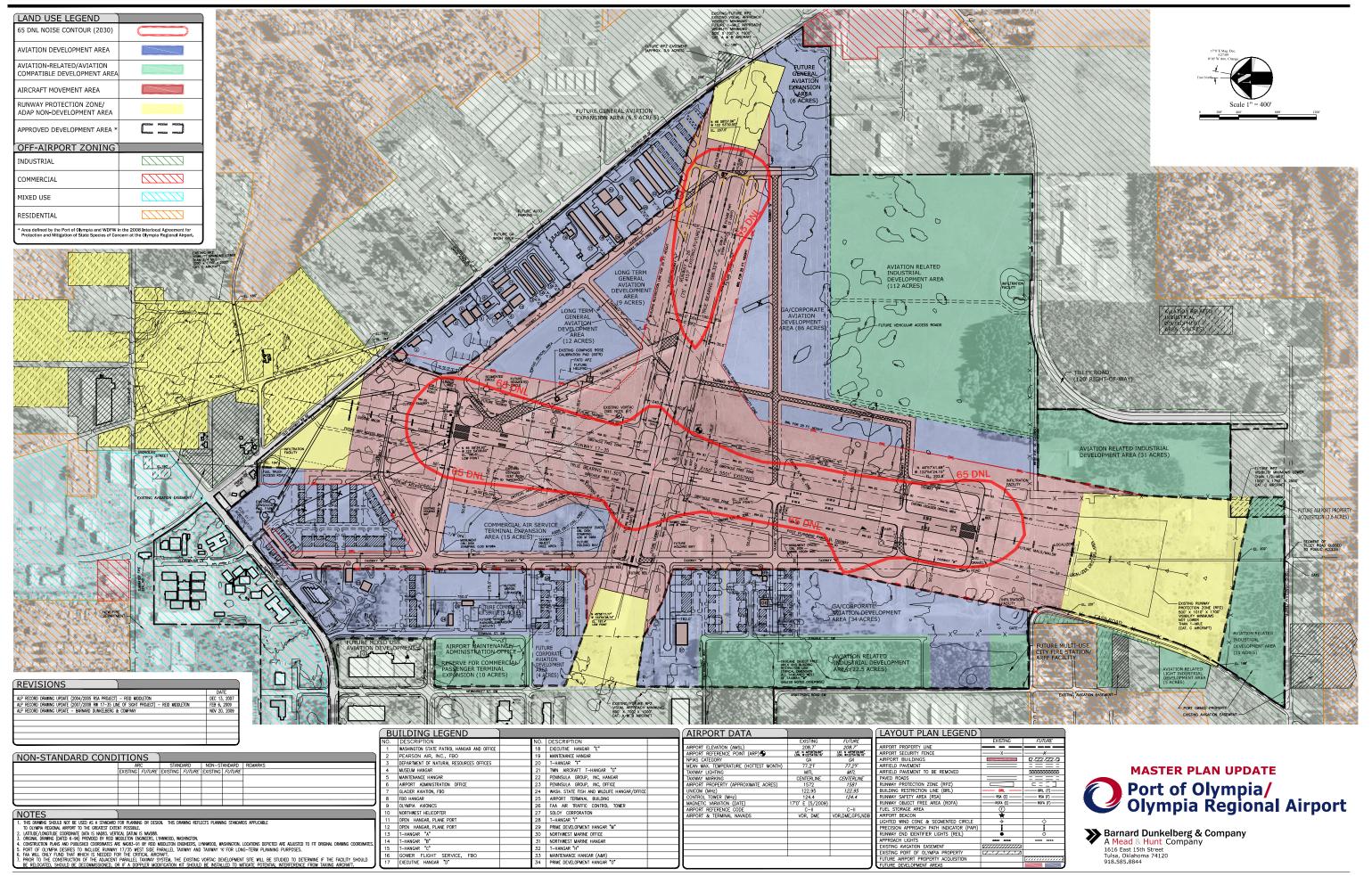




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airfield access through taxiway development, although, they can be utilized for non-aeronautical support activities not requiring direct airfield access. The revenue-generating potential of these areas will vary based upon local traffic patterns and vehicular access. Specific proposals for future non-aeronautical uses will be subject to additional review and approval by the FAA.

The Land Use Drawing also provides guidance to local authorities for establishing appropriate land use zoning near the Airport. As specified by the FAA Grant Assurance #21, entitled *Compatible Land Use*, the Airport Sponsor, "Will take appropriate action, to the extent reasonable, including the adoption of zoning laws, to restrict the use of land adjacent to or in the immediate vicinity of the airport to activities and purposes compatible with normal airport operations, including landing and takeoff of aircraft."

Airport Property Map

The AIRPORT PROPERTY MAP, which is presented in Figure E17, indicates how various tracts of airport property were acquired (e.g., federal funds, surplus property, local funds, etc.) and the dates of acquisition. The purpose of the drawing is to provide documentation of the current and future aeronautical use of land acquired with federal funds. According to existing property records, there is a total of 1,572 acres of fee simple property that is owned by the Port of Olympia. It should be noted that the Port is planning to acquire, in fee simple, approximately 2.6 acres of additional property within and adjacent to the future Runway 35 RPZ, and one additional acre, in easement, within the Runway 26 RPZ

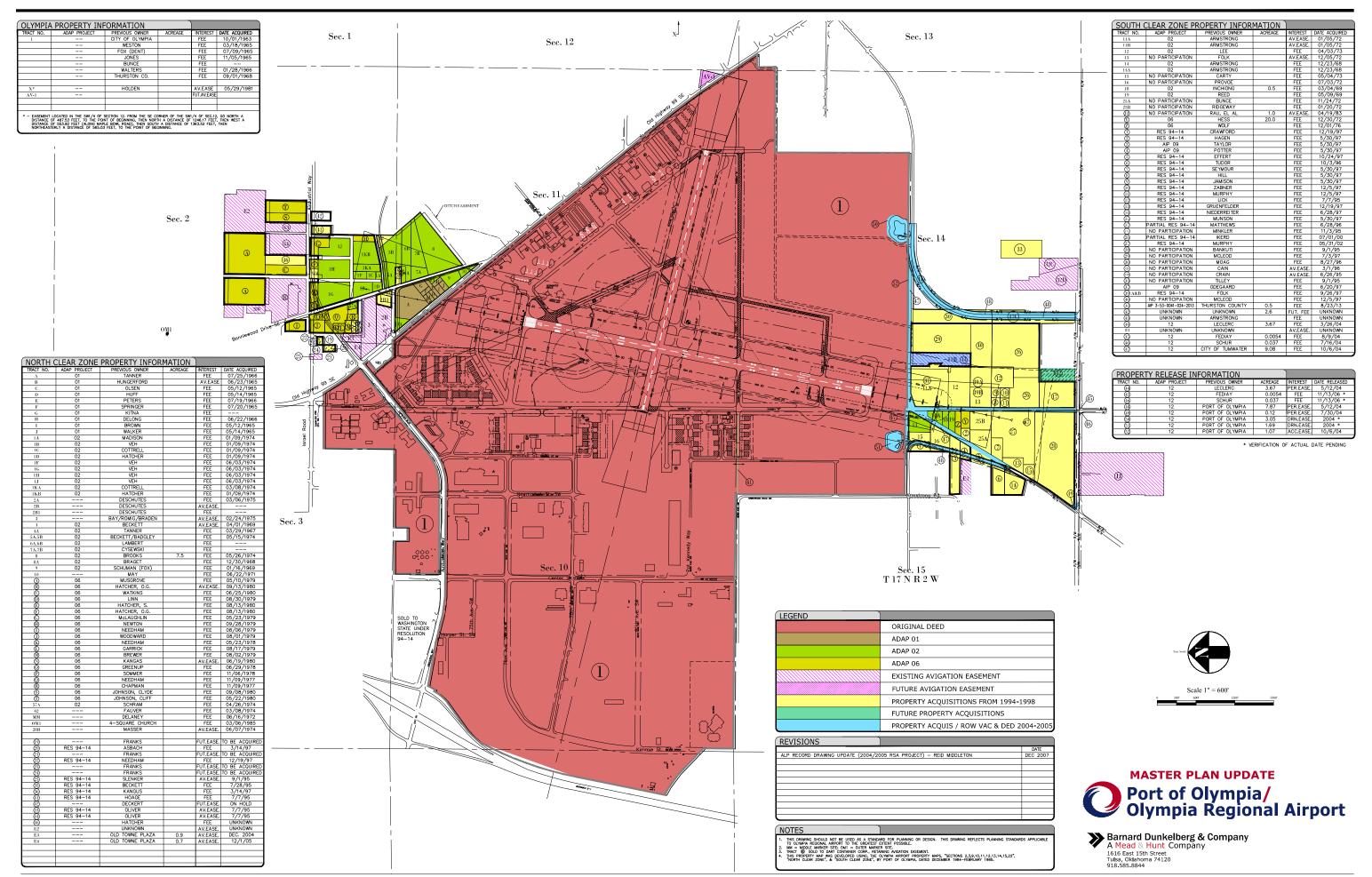


Figure E17 Airport Property Map - Exhibit 'A'