

SUF

SOUND URBAN FORESTRY

Appraisals, Planning, Urban Landscape Design and Management

Intercity Transit Master Plan

526 Pattison Street SE

Olympia, WA 98501

Level II Soil and Vegetation Plan

Prepared for: Stantec Architecture Inc., Eric Wood

Intercity Transit

Prepared by: Kevin M. McFarland, SUF
Consulting Forester/Certified Arborist

Date: 3/12/19

Introduction

The following Level II SVP has been prepared as part of the Intercity Transit Master Plan project, within the City of Olympia, Washington. This modified SV report has been prepared as specified by the Olympia Tree Protection and Replacement Ordinance (OMC 16.60) pursuant to the City of Olympia Development Guidelines and Public Works Standards. As outlined in the pre-submission conference worksheet provided by the City's Arborist dated 9/06/18, I have been asked to include an update to the tree inventory presented in Sue Nicol's August 30, 20165 report that consists of species, size, condition and tree unit value and any necessary tree protection measures.

I. Project Description

Aerial of Project Property



II. Inventory of Trees within Site

The numbering presented in the following table follows that used in the Sue Nicol report. Any trees found to be in poor condition or offsite are not worth any tree units.

Table 1. Inventory of Trees Proposed for Removal within Area 1

Tree Number	Species	Diameter	Condition	Comments	Tree Units
1	Deodar Cedar	18"	Good		4
2	Flowering Cherry			Gone	0
3	Japanese Maple			Gone	0
4	Douglas Fir	3"	Good		1
5	Douglas Fir	23"	Good		6
6	Douglas Fir	19"	Good		4
7	Douglas Fir	22"	Good		6
8	Douglas Fir	18"	Good		4
9	Douglas Fir	24"	Good		7
10	Birch	8"	Good		1.5
11	Flowering Cherry	12"	Poor		0
12	Douglas Fir	25"	Good		7
13	Douglas Fir	18"	Good		4
14	Strawberry Tree	6"	Good		1.5
15	Red Oak	24"	Good		7
16	Red Oak	11"	Good		1.5
17	Red Oak	16"	Good		3
18	Strawberry Tree	3"	Good		1
19	Douglas Fir	24"	Good		7
20	Douglas Fir	24"	Good		7
21	Douglas Fir	18"	Good		4
22	Douglas Fir	14"	Fair		2
23	Douglas Fir	15"	Good		2
24	London Plane	23"	Good		6
25	London Plane	26"	Good		8
26	Scarlet Oak	25"	Good		7
27	London Plane	15"	Good		2
28	London Plane	7"	Fair		1.5
29	Douglas Fir	18"	Good		4
30	Douglas Fir	16"	Good		3

Tree Number	Species	Diameter	Condition	Comments	Tree Units
31	Douglas Fir	18"	Good		4
32	London Plane	18"	Good		4
33	London Plane	25"	Good		7
34	Ponderosa Pine			Gone	0
35	Ponderosa Pine			Gone	0
36	London Plane	26"	Good		8
37	London Plane	29"	Good		9
38	London Plane	8"	Good		1.5
39	London Plane			Gone	0
40	Douglas Fir	17"	Good		3
41	Douglas Fir	18"	Good		4
42	Douglas Fir	19"	Good		4
43	Ponderosa Pine	12"	Fair	Offsite	0
44	Cottonwood	22"	Fair	Offsite	0
45	Douglas Fir	16"	Good	Offsite	0
46	Douglas Fir	14"	Good	Offsite	0
47	Douglas Fir	18"	Good	Offsite	0
48	Cottonwood	5"	Good	Offsite	0
49	Douglas Fir	15"	Good	Offsite	0
50	Maple	6"	Poor	Offsite	0
51	Red Oak	18"	Fair		4
52	Cottonwood	11"	Good	Offsite	0
53	Douglas Fir	10"	Good	Offsite	0
54	Douglas Fir	14"	Good	Offsite	0
55	Birch	9	Good	Offsite	0
56	Sweet Gum	13"	Good		1.5
57	Sweet Gum	9"	Good		1.5
58	Sweet Gum	4"	Good		1
59	Deodar Cedar	16"	Good		3
60	Deodar Cedar	13"	Good		1.5
61	Deodar Cedar	14"	Good		2
62	Deodar Cedar	18"	Good		4
63	Sweet Gum	6"	Fair		1.5
64	Sweet Gum	8"	Good		1.5

Tree Number	Species	Diameter	Condition	Comments	Tree Units
65	Sweet Gum	6"	Good		1.6
66	Deodar Cedar	23"	Good		6
67	Deodar Cedar	15"	Good		2
68	Deodar Cedar	18"	Good		4
69	Deodar Cedar	15"	Good		2
70	Deodar Cedar	19"	Good		4
71	London Plane	22"	Good		6
72	Sweet Gum	12"	Good		1.5
73	Sweet Gum	10"	Good		1.5
74	Sweet Gum	7"	Good		1.5
75	Sweet Gum	9"	Good		1.5
76	Deodar Cedar	24"	Good		7
77	London Plane	12"	Good		1.5
78	London Plane	12"	Good		1.5
79	London Plane	20"	Good		5
80	Scarlet Oak	22"	Good		6
81	Deodar Cedar	19"	Good		4
82	Scarlet Oak	20"	Good		5
83	Deodar Cedar	15"	Good		2
84	Deodar Cedar	19"	Good		4
85	Deodar Cedar	18"	Good		4
86	Sweet Gum	9"	Good		1.5
87	Sweet Gum	8"	Good		1.5
88	Sweet Gum	9"	Good		1.5
89	Sweet Gum	10"	Good		1.5
90	Sweet Gum	10"	Good		1.5
91	Sweet Gum	9"	Good		1.5
92	Sweet Gum	14"	Good		2
93	Flowering Cherry	1"	Poor		0
94	Sweet Gum	11"	Good		1.5
95	Deodar Cedar	10"	Good		1.5

Tree Number	Species	Diameter	Condition	Comments	Tree Units
96	Deodar Cedar	12"	Good		1.5
97	Deodar Cedar	18"	Good		4
98	Deodar Cedar	14"	Good		2
99	Purple Plum	12"	Fair	Offsite	0
100	Purple Plum	12"	Fair	Offsite	0
101	Purple Plum	15"	Fair	Offsite	0
102	London Plane	16"	Good		3
103	London Plane	14"	Good		2
104	London Plane	14"	Good		2
105	London Plane	12"	Good		1.5
106	London Plane	14"	Good		2
107	London Plane	14"	Good		2
108	Douglas Fir	22"	Good	Offsite	0
109	Big Leaf Maple	14"	Good	Offsite	0
110	Douglas Fir	14"	Good	Offsite	0
111	London Plane	18"	Good		4
112	Deodar Cedar	16"	Good		3
113	Deodar Cedar	16"	Good		3
114	Deodar Cedar	14"	Good		2
115	Douglas Fir	17"	Fair		3
116	Douglas Fir	17"	Poor		0
117	Douglas Fir			Gone	0
118	Red Oak			Gone	0
119	Douglas Fir	18"	Fair		4
120	Scarlet Oak			Gone	0
121	Scarlet Oak			Gone	0
122	Douglas Fir			Gone	0
123	Douglas Fir			Gone	0
124	Douglas Fir			Gone	0
125	Scarlet Oak			Gone	0
126	Red Oak	11"	Good		1.5
127	Red Oak	10"	Good		1.5
128	Douglas Fir	24"	Good		7

Tree Number	Species	Diameter	Condition	Comments	Tree Units
129	Douglas Fir	18"	Good		4
130	Douglas Fir	20"	Good		5
131	Douglas Fir	20"	Good		5
132	Red Oak	18"	Good		4
133	Western Red Cedar	12"	Fair		1.5
134	Cottonwood			Gone	0
135	Cottonwood			Gone	0
136	Cottonwood			Gone	0
137	Cottonwood			Gone	0
138	Cottonwood			Gone	0
139	Cottonwood			Gone	0
140	Big Leaf Maple	8"	Good		1.5
141	Cottonwood	21"	Good	Offsite	0
142	Big Leaf Maple	3"	Good		1
143	Cottonwood	6"	Fair	Offsite	0
144	Cottonwood	4"	Fair	Offsite	0
145	Cottonwood	7"	Fair	Offsite	0
146	Cottonwood	9"	Fair	Offsite	0
					Total = 330.6

III. Tree Density Calculations

The Olympia Tree Protection and Replacement Ordinance requires a minimum tree density of 30 tree units per acre. If this requirement is not met through tree preservation, then replacement trees will be planted to meet the minimum tree density. The following summary indicates the tree density required and the density proposed for preservation.

Minimum Tree Density Required

Required Units (units/acre x -acres)

Units

Units Currently Proposed for Removal

Units

Retained Tree Units

Units

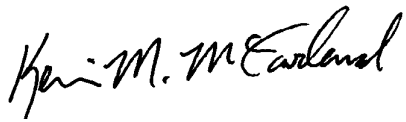
This project will remain above the required minimum.

IV. Tree and SVPA Protection

In addition to following the guidelines within Chapter 7 of the City's Urban Forestry Manual, the following measures are recommended:

- Prior to any work, I will meet the contractor on site to review the placement of the fencing and the expected sequence.
- Prior to any grading or clearing, I will review the installed fencing and notify the City that it is acceptable.
- I will be notified once the project is complete to assess the retained trees for any damage and notify the City with my findings.

Professionally submitted,

A handwritten signature in black ink that reads "Kevin M. McFarland". The signature is written in a cursive, flowing style.

Kevin M. McFarland, Principal
Consulting Forester
ISA Certified Arborist PN-0373 & ISA Tree Risk Assessment Qualified

Recommended Tree Protection Fencing