

APPLIED HORTICULTURAL CONSULTING, INC.



Clackamas County Oregon

**TREE SURVEY AND
TREE STUDY
FOR THE
SUNNYBROOK BOULEVARD
WEST EXTENSION**

OTAK, INC., PROJECT #13745C



APPLIED HORTICULTURAL
CONSULTING, INC.

- ◆ **TREE SURVEY AND TREE STUDY**
Sunnybrook Boulevard West Extension
Between SE 82nd Avenue & Harmony Road
Clackamas County, Oregon
- ◆ **PREPARED FOR**
Otak, Inc.
Mr. Darrin Stairs
17355 SW Boones Ferry Road
Lake Oswego, Oregon 97035
- ◆ **PREPARED BY**
Don Richards, President
Applied Horticultural Consulting, Inc.
P.O. Box 2355
Lake Oswego, Oregon 97035
- ◆ **REPORT DATE**
July 30, 2010

Copyright© Applied Horticultural Consulting, Inc. 2010

DRAFT



Table of Contents

Table of Contents

1.0 Scope and Limitation of Work

- 1.1 General
- 1.2 Timetable

2.0 Qualifications, Assumptions and Limiting Conditions

- 2.1 Qualifications
- 2.2 Assumptions
- 2.3 Limiting Conditions

3.0 Standards

- 3.1 General
- 3.2 Reference Standards and Guidelines
- 3.3 Specifications and Observations

4.0 Tree Protection, Preservation and Mitigation Plans

- 4.1 Development of a Tree Protection and Preservation Plan
- 4.2 Development of a Tree Removal Mitigation Plan

5.0 The Benefits of Renewal

- 5.1 Renewal of Natural Resources

Certification of Arborist's Tree Survey and Tree Study

Photographic Exhibits

Appendix

Site Plan Aerial (to be updated by Otak, Inc.)

D R A F T

Tree Survey
and
Tree Report

Tree Survey and Tree Study

For

**The Sunnybrook Boulevard West Extension Project,
Otak Project #13745C
Clackamas County, Oregon**

By

**Applied Horticultural Consulting, Inc.
P.O. Box 2355
Lake Oswego, Oregon 97035
Don Richards, President
ISA Certified Arborist Number PN-5536A**

Date

July 30, 2010

Copyright© Applied Horticultural Consulting, Inc. 2010

D R A F T

1.0 Scope and Limitation of Work

1.1 General

- 1.1.1 A request was made for an arborist's tree survey and tree study by Mr. Darrin Stairs, design engineer for this project identified as the Sunnybrook Boulevard West Extension, Otak project #13745C, in his capacity as project manager for Otak, Inc. (Contractor) who has been retained by Clackamas County Oregon (Client). Don Richards, certified arborist for Applied Horticultural Consulting, Inc. (Arborist) has agreed to prepare an arborist's report initially containing a tree survey and tree study. The initial scope of work shall include all applicable observations for the site as outlined in the Clackamas County Development Agency Draft Proposed Tree Ordinance dated February 3, 2010 Chapter 1002.01 through 1002.13 inclusive.
- 1.1.2 Mr. Richards has been retained as a subcontractor on this project by Otak, Inc. All original tree related documents shall be submitted to Otak, as the Contractor, in preparation of this tree survey and tree study and subsequent reports associated with this project and may be used by the Contractor in preparation of their scope of work at their sole discretion.
- 1.1.3 A pre-construction tree inventory was conducted and an initial tree survey and tree study is presented herein as of July 30, 2010, by the arborist. The tree survey and tree study, Photographic Exhibits, Appendix and attached Site Plan Aerial (*to be updated by Otak, Inc.*), collectively referred to as the (Report) include the location of each tree 8 inch DBH¹ or larger relative to the proposed site development, a listing of the genus and species of each tree, the current size of each 8 inch or larger tree measured in DBH, the relative health and condition of each tree, photographic representation of the 8 inch or larger types of trees located on the site within the delineated study area and within 25 feet on either side, an identification of which trees are to be removed based on the current plan design, identification of all significant trees (trees measuring 30 inch DBH or larger)² on the site and all other pertinent, special tree information associated with this project.

DRAFT

¹ DBH is diameter measured at breast height approximately 4.5 feet above mean ground level.

² The definition of a significant tree is any tree with a total diameter measured at breast height equaling or greater than 30 inches, *Trees and Development, A Technical Guide To Preservation Of Trees During Land Development*, 1998.

1.1 General (continued)

- 1.1.4 This tree survey and tree study addresses the trees associated with the current design scenario only and does not address any alternative design proposals.

1.2 Timetable

- 1.2.1 A timetable for completion of our initial part of the project (15% completion) was confirmed as the week of August 16, 2010.

2.0 Qualifications, Assumptions and Limiting Conditions

2.1 Qualifications

- 2.1.1 Mr. Richards is a consulting arborist under certification with ASCA, American Society of Consulting Arborists and the ISA, International Society of Arboriculture with certification number PN5536-A, a licensed nursery appraiser under certification with the National Nursery and Christmas Tree Appraisers Association and a Certified Professional Horticulturist under certification with the American Society for Horticultural Science with certification number 25543. He is licensed by the State of Oregon as a contractor with CCCB number 148325 and is licensed by METRO with number 6409. Mr. Richards is a member in good standing with all of these organizations and is therefore qualified to perform this scope of work.

2.2 Assumptions

- 2.2.1 Any legal descriptions provided to the arborist are assumed to be correct. Any titles and/or ownerships to any property or services are assumed to be true and accurate. No responsibility is assumed for matters legal in character.
- 2.2.2 It is assumed that the property is not in violation of any applicable codes, ordinances, statutes, quarantines or other governmental regulations.
- 2.2.3 Care has been taken to obtain all information from reliable and up to date sources. All data has been verified insofar as possible; however, as the arborist, Mr. Richards can neither guarantee nor be responsible for the accuracy of information provided by others. Information provided by the Contractor or the Client in association with this scope of work is assumed to be correct and accurate to the best of their knowledge.

2.3 Limiting Conditions

- 2.3.1 The limited use of the arborist's tree survey and tree study is to offer detailed observations regarding the existing trees and their current condition in relation to the proposed development and current construction design.
- 2.3.2 As the arborist, Mr. Richards has not been asked to render any opinions legal in character.
- 2.3.3 Mr. Richards is not an attorney. This report is not intended as, and does not represent legal advice and should not be relied upon to take the place of such advice. Although every effort has been made to assure the accuracy of the information included in this tree survey and tree study as of the date which it was issued, laws, court, and arbitration decisions and governmental regulations in the United States and Oregon are all subject to frequent change. Current information is to be included in all the standards and duties of evaluation, investigations, interpretations, methodology and contradictions in determining the failure for claims and litigation.
- 2.3.4 As the arborist, Mr. Richards has not been asked to give testimony in a court of law by reason of this tree survey and tree study.
- DRAFT**
- 2.3.5 Loss or alteration of any part of this tree survey and tree study or its attachments may invalidate the entire document.
- 2.3.6 Possession of this tree survey and tree study or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed without prior written or verbal consent from the arborist.
- 2.3.7 Neither all nor part of the contents of this tree survey and tree study, nor a copy thereof, shall be conveyed by anyone, including the Contractor or the Client, to the public through advertising, public relations, news, sales or other media, without the prior, expressed, written or verbal consent of the arborist; particularly as to conclusions, identity of the arborist, or any reference to a professional society or institute or to any initialed designation conferred upon the arborist as stated in the qualifications listed.
- 2.3.8 This tree survey and tree study and any information expressed herein represents the professional opinion of the arborist, and is in no way contingent upon the reporting of a specified opinion, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported at a future date.

3.0 Standards

3.1 General

- 3.1.1 Documentation for this tree survey and tree study and the attachments consists of:
- 1) A measurement of trees on the site 8 inch DBH or larger;
 - 2) An identification of trees by common and botanical names;
 - 3) A visual inspection of all trees for structural stability and general health prior to construction;
 - 4) An identification of all significant trees located on the site; and
 - 5) A review of applicable tree protection specifications, all sections and subsections from the Clackamas County Development Agency Draft Proposed Tree Ordinance dated February 3, 2010 Chapter 1002.01 through 1002.13 inclusive.

3.2 Reference Standards and Guidelines

- 3.2.1 Measurements for this tree survey and tree study are based on the *American Standard for Nursery Stock*, revision ANSI Z60.1-2004 and the *National Arborist Association Standards for Tree Measurements, ninth edition*.

- 3.2.2 Common and botanical names referred to in this tree survey and tree study are based on vernacular currently used to describe similar goods or products in the national nursery industry and correspond to plant names and listings found in *Hortus III, Sixth Edition*, 2009.

- 3.2.3 Tree health observations cited in this tree survey and tree study are based on current structural stability criteria adopted for use by the American Society of Consulting Arborists and the International Society of Arboriculture as found in *Trees and Development, A Technical Guide To Preservation Of Trees During Land Development*, 1998. Further consideration is given to criteria adopted for use by the Oregon State University Department of Forestry as found in *Tree Protection on Construction and Development Sites, 2009*.

- 3.2.4 The reporting format used to present the findings in this tree survey and tree study follows the current guidelines found in *Guide To Report Writing For Consulting Arborists*, 1995.

3.3 Specifications and Observations

- 3.3.1 Tree Survey/Tree Inventory: The quantity of existing trees 8 inch DBH or greater identified on the site within the delineated study area and 25 feet on either side is 190 trees. All trees are identified on the attached Appendix A and on the attached Site Plan Aerial (to be updated by Otak, Inc.) and representative photographs of each type of tree are identified on attached Photographic Exhibits 1 through 12.
- 3.3.2 Tree Categories: Tree categories on the site within the delineated study area and 25 feet on either side include all 8 inch DBH and larger trees affected by the current design to be removed, which fall within the delineated study area inside the path of construction, those trees that are outside the delineated study area within 25 feet on either side, but are so close to the path of construction as to require removal or some degree of limb pruning, those trees clearly outside the delineated study area and the path of construction, those trees within the delineated study area inside the path of construction, which are to be protected and retained by means of specific tree protection activities and significant trees measured at 30 inch DBH or larger within the delineated study area and 25 feet on either side.

DRAFT

Trees affected by the current design specifications include (102) trees 8 inch DBH or larger within the delineated study area and the actual path of construction. Eleven of these 102 trees are either dead or mostly dead from natural causes or have significant existing damage (refer to Photographic Exhibits 12 through 14). Another 65 trees 8 inch DBH or larger are so close to the delineated study area and the path of construction that they may require removal or some degree of severe branch pruning during construction. Another 23 trees 8 inch DBH or larger are located on the site, but are outside the delineated study area and the path of construction and would not be affected by the current design or may be retained with the use of specific tree preservation activities. Twenty-one significant trees measured at 30 inch DBH or larger are located within the delineated study area or within 25 feet on either side. Fifteen of these 21 significant trees are scheduled for removal. Six of these 21 significant trees are scheduled for retention using specific tree preservation criteria as part of the current design. Many trees smaller than 8 inch DBH are located on the site, but are not part of this tree survey and tree study.

4.0 Tree Protection, Preservation and Mitigation Plans

4.1 Development of a Tree Protection and Preservation Plan

4.1.1. The arborist shall prepare a comprehensive tree protection and preservation plan to be followed before, during and after construction begins to ensure the adequate protection and viability of the trees chosen for retention. This tree protection and preservation plan shall be developed in conjunction with the final design criteria.

4.2 Development of a Tree Removal Mitigation Plan

4.2.1 Otak, Inc. as the project engineers shall provide a tree mitigation plan as part of the overall landscape plan associated with the project at completion. This mitigation plan shall follow the specifications and guidelines found in the Clackamas County Development Agency Draft Proposed Tree Ordinance dated February 3, 2010 Chapter 1002.11.

4.2.2 The current design standard retains most of the trees and existing habitat south of the existing Sunnybrook Boulevard. Compared to the Harmony Road Environmental Assessment conducted in 2006, the current design standard retains many more trees by keeping the major environmental impacts north of the existing Sunnybrook Boulevard requiring less mitigation.

5.0 The Benefits of Renewal

5.1 Renewal of Natural Resources

5.1.1. Although tree removal may be viewed as a last response, it is a normal part of development. Even if diligent design criteria established to minimize such activities has been followed, tree removal may still become necessary. If mitigation and adequate long-term planning are employed, the outcome can be beneficial to the built environment by replenishment of the natural resources that would otherwise live their normal, reduced life span in the urban forest, then become hazardous or simply die and decay. Before this area was settled by humans, the replenishment and renewal cycle was accomplished by forest fires.

5.1.2 Reuse and renewal of the trees removed from a development site can be accomplished in several ways. They may become wildlife habitat if felled and left in the area, they may be chipped and used as mulch and they may be collected by woodworking clubs in the area and used to make furniture and other beautiful handcrafted items.

CERTIFICATION OF ARBORIST'S TREE SURVEY AND TREE STUDY

We certify that, to the best of our knowledge and belief:

- ◆ The statements of facts contained in this tree survey and tree study are true and correct.
- ◆ The reported information and opinions are limited only by the reported assumptions and limiting conditions, and are impartial and unbiased professional information and opinions.
- ◆ We have no bias with respect to the parties involved with this assignment.
- ◆ Our engagement in this assignment is not contingent upon delivering or reporting predetermined results.
- ◆ The compensation for completing this assignment is not contingent upon the development or reporting of a predetermined direction that favors the cause of the Contractor or the Client, the attainment of a stipulated result or the occurrence of a subsequent event directly related to the intended use of this tree survey and tree study.

D R A F T

- ◆ The information and opinions were developed, and this tree survey and tree study has been prepared, in conformity with the principles of the International Society of Arboriculture's *Trees and Development – A Technical Guide to Preservation of Trees During Land Development*, the Oregon State University Department of Forestry publication *Tree Protection on Construction and Development Sites, 2009* and our current understanding of all applicable portions of the Clackamas County Development Agency Draft Proposed Tree Ordinance dated February 3, 2010 Chapter 1002.01 through 1002.13 inclusive.
- ◆ The use of this tree survey and tree study is subject to the requirements of the International Society of Arboriculture and the American Society of Consulting Arborists and subject to review by their respective, duly authorized representatives.

◆ Don Richards, President, AHC, Inc.
Arborist's Name and Title

◆ _____
Arborist's Signature & ISA Cert. No.

◆ July 12, 13, 14, 15 and 16, 2010
Date of Site Observations

◆ July 30, 2010
Date of (DRAFT) Report

Exhibits

Photographic Exhibits

Sunnybrook Blvd. West Extension Site - Tree Types 8 Inch DBH¹ & Larger



Acer macrophyllum – Bigleaf Maple – Under Existing Power Lines



Acer platanoides – Norway Maple

¹ DBH is diameter measured at breast height approximately 4.5 ft. above mean ground level.

Photographic Exhibits



Acer rubrum 'Armstrong' – Armstrong Red Maple



Betula pendula – European White Birch – Mostly Dead

Photographic Exhibits



Celtis occidentalis – Western Hackberry – Under Existing Power Lines



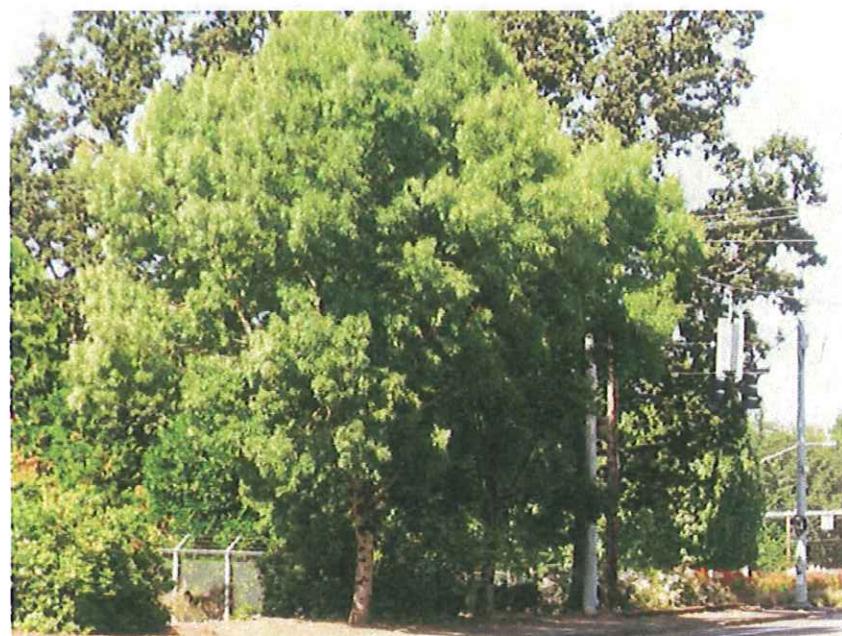
Crataegus monogyna – Single-Seeded Hawthorn

Exhibit 3

Photographic Exhibits

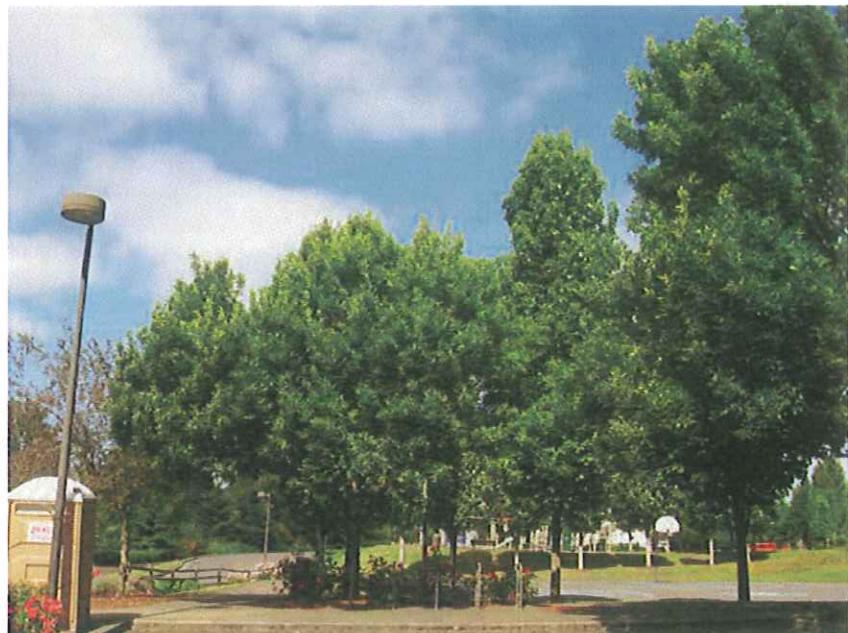


Fraxinus latifolia – Oregon Ash



Fraxinus oxyacarpa 'Raywood' – Raywood Ash

Photographic Exhibits



Fraxinus pennsylvanica – Green Ash



Juglans nigra – Black Walnut – Under Existing Power Lines

Photographic Exhibits



Liquidambar styraciflua – Sweetgum – Under Existing Power Lines



Pinus nigra – Austrian Pine – Under Existing Power Lines

Photographic Exhibits



Platanus acerifolia – London Planetree – Under Existing Power Lines



Populus trichocarpa – Black Cottonwood

Exhibit 7

Photographic Exhibits



Prunus serotina – Wild Cherry – Under Existing Power Lines



Pseudotsuga menziesii – Douglas Fir

Photographic Exhibits



Pyrus calleryana – Flowering Pear



Quercus garryana – Oregon White Oak

Exhibit 9

Photographic Exhibits



Quercus palustris – Pin Oak



Quercus rubra – Red Oak

Exhibit 10

Photographic Exhibits



Robinia pseudoacacia – Black Locust – Under Existing Power Lines



Salix caprea – Pussy Willow

Exhibit 11

Photographic Exhibits



Thuja plicata – western red cedar

Assorted Dead or Damaged Trees and Symptoms

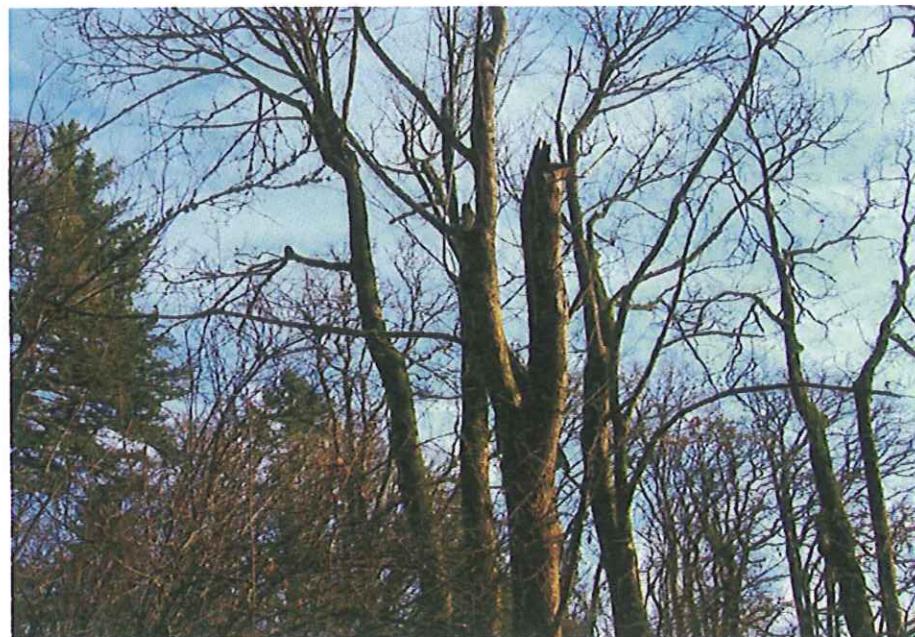


Armstrong Red Maple – Existing Girdling Surface Roots

Photographic Exhibits



Oregon White Oak – Existing Oak Galls (March 2010)



Bigleaf Maple – Damaged and Dead Top (March 2010)

Photographic Exhibits



Oregon White Oak – Tops Covered with English Ivy (March 2010)



Douglas Fir – Limited Branches Due to Competition (March 2010)

Appendix A

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H		
					R = RETAIN	D = DM	X = REMOVE
2280	Oregon White Oak	20"	70' x 30' 75' x 60'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		X
2300	Oregon White Oak	50" M		<u>This is a significant tree.</u>	H		R
2617	Pussy Willow	13" M	30' x 30'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2616	Pussy Willow	18" M	30' x 30'	M = Multi-Stem. 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2607	Oregon Ash	17" M	40' x 30'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2557	Douglas Fir	9"	20' x 12'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2558	Norway Maple	9"	25' x 12'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		R
2559	Green Ash	9"	25' x 12'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		R
2286	Bigleaf Maple	9"	35' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2285	Bigleaf Maple	9"	35' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H		R
2263	Douglas Fir	11"	45' x 18'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		R
2256	Douglas Fir	12"	45' x 18'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		R
2253	Douglas Fir	12"	45' x 18'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		R
2250	Western Red Cedar	9"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
2369	Western Red Cedar	8" M	25' x 18'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10061	Western Red Cedar	16" M	35' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10060	Western Red Cedar	22" M	35' x 20'	M = Multi-Stem. 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10059	Western Red Cedar	20"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10058	Western Red Cedar	16"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	DM		X
10057	Western Red Cedar	14"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10056	Western Red Cedar	10"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10053	Norway Maple	10"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10052	Norway Maple	14"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10051	Norway Maple	17"	25' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10049	Norway Maple	10"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10050	Norway Maple	14"	35' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10048	Norway Maple	10"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10047	Western Red Cedar	9"	20' x 8'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10045	Western Red Cedar	9"	20' x 8'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10043	Norway Maple	12"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10042	Raywood Ash	12"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10041	Raywood Ash	14"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X
10040	Raywood Ash	12"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H		X

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H	
					R = RETAIN	X = REMOVE
10039	European White Birch	9"	15' x 8'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. Mostly dead.	D	X
10038	Western Red Cedar	28"	40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10037	Western Red Cedar	20" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10036	Western Red Cedar	19" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10035	Western Red Cedar	27" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10034	Western Red Cedar	21" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10033	Western Red Cedar	21" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10032	Western Red Cedar	20" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10031	Western Red Cedar	31" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This is a significant tree.	H	X
10030	Raywood Ash	10"	25' x 12'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. Mostly dead.	H	X
N	Raywood Ash	10"	25' x 12'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. Mostly dead. This tree was missed on the survey map.	D	X
O	Western Red Cedar	36" M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This tree was missed on the survey map. This is a significant tree.	H	X
P	Western Red Cedar	21"	40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
Q	Western Red Cedar	19" M	40' x 20'	This tree was missed on the survey map. M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H	X
10023	Oregon White Oak	15"	35' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned.	DM	X
10022	Black Locust	38"	45' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned. This is a significant tree.	DM	X
10021	Oregon White Oak	48"	65' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned. This is a significant tree.	DM	X
10010	Black Walnut	14" M	30' x 30'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines.	DM	X
10011	Wild Cherry	8" M	20' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in severely damaged condition.	DM	X
10012	Black Walnut	12"	20' x 12'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines.	H	X
X	Sweet Gum	11"	35' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under power lines.	H	X
Y	Wild Cherry	8" M	18' x 15'	This tree was missed on the survey map. M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	DM	X
				This tree was missed on the survey map.		

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H	
					R = RETAIN	X = REMOVE
10013	Austrian Pine	17"	30' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in fair condition.	H	X
10014	Sweet Gum	8"	30' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in fair condition.	H	X
10015	Oregon Ash	15"	30' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in fair condition.	H	X
2400	Oregon White Oak	51"	80' x 60'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It will be retained using special tree preservation activities in the proposed round-about.		
10001	Green Ash	12"	40' x 30'	<i>This is a significant tree and designated as a County Heritage Tree.</i> This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	H	X
10006	Armstrong Red Maple	9"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	H	X
10005	Armstrong Red Maple	9"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	H	X
10003	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
10002	Green Ash	12"	25' x 18'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
R	Armstrong Red Maple	9"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition. This tree was missed on the survey map.	H	X
S	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
T	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
U	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
2723	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
2724	Armstrong Red Maple	9"	40' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X
2725	Armstrong Red Maple	9"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	H	X
2726	Armstrong Red Maple	9"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	H	X
V	Western Red Cedar	9" M	30' x 20'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition. This tree was missed on the survey map.	H	X
W	Western Red Cedar	9" M	30' x 20'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition. This tree was missed on the survey map.	H	X
10029	Oregon White Oak	15"	25' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in fair condition.	H	X
10028	London Planetree	25"	25' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines. It is in fair condition.	H	X
10027	Western Hackberry	30"	40' x 40'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R
10026	Black Locust	22" M	25' x 30'	<i>This is a significant tree.</i> M = Multi-Stem. 6 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R
10025	Bigleaf Maple	36"	25' x 40'	<i>This is a significant tree.</i> This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H		R = RETAIN X = REMOVE
					H	X	
10024	Bigleaf Maple	28"	25' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
1509	Douglas Fir	29"	70' x 30'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
1510	Douglas Fir	40"	90' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. <i>This is a significant tree.</i>	H	R	
A	Black Cottonwood	12" M	40' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
B	Black Cottonwood	10" M	50' x 30'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
C	Black Cottonwood	16" M	40' x 20'	This tree was missed on the survey map.	H	R	
1622	Black Cottonwood	32" M	75' x 50'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
1076	Flowering Pear	12"	30' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
1075	Flowering Pear	10"	25' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
1632	Pin Oak	17"	50' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
1628	Douglas Fir	37"	90' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. <i>This is a significant tree.</i>	H	X	
1806	Oregon White Oak	44" M	80' x 60'	M = Multi-Stem. 2 Trunks at 6'. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	R	
				activities including cable-bracing. <i>This is a significant tree.</i>	H	R	
1873	Norway Maple	9"	30' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. Big trunk sci	DM	X	
1950	Green Ash	9"	40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
1951	Red Oak	14"	40' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
1952	Red Oak	14"	45' x 35'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
1865	Western Red Cedar	11" M	30' x 15'	M = Multi-Stem. 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
1866	Western Red Cedar	10" M	25' x 15'	M = Multi-Stem. 6 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
1864	Western Red Cedar	12"	30' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
1949	Douglas Fir	11"	30' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2033	Green Ash	8"	20' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	R	
2025	Oregon White Oak	24"	50' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
2024	Oregon White Oak	26"	50' x 40'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
2023	Oregon White Oak	27"	60' x 50'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2021	Oregon White Oak	26"	60' x 50'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2020	Douglas Fir	8"	20' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2019	Douglas Fir	11"	20' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
2014	Oregon White Oak	16"	40' x 18'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
2009	Oregon White Oak	19"	40' x 18'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
2008	Single-Seeded Haworthia	8"	18' x 10'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2006	Oregon White Oak	20"	60' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	
2005	Oregon White Oak	20"	60' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H	X	

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H		
					R = RETAIN	D = DM	X = REMOVE
2120	Oregon White Oak	20" M	60' x 30'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
2121	Oregon White Oak	10"	40' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
2122	Oregon White Oak	14"	40' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
2123	Oregon White Oak	20" M	80' x 50'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
2124	Oregon White Oak	11"	40' x 25'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
2281	Oregon White Oak	38" M	80' x 50'	M = Multi-Stem. 2 Trunks at 6'. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This is a significant tree.	H		X
2286	Oregon White Oak	13" M	40' x 25'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
2284	Oregon White Oak	12"	40' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		R
2283	Oregon White Oak	20"	40' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		R
2282	Oregon White Oak	20"	40' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		R
2251	Oregon White Oak	26" M	40' x 25'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
2132	Oregon White Oak	38" M	60' x 40'	M = Multi-Stem. 2 Trunks at 6'. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This is a significant tree.	H		X
2153	Oregon White Oak	16"	60' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
2152	Oregon White Oak	28" M	40' x 50'	M = Multi-Stem. 2 Trunks at 6'. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
2154	Oregon White Oak	14"	40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	H		X
D	Oregon White Oak	41" M	75' x 60'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map. This is a significant tree.	H		X
E	Oregon White Oak	22"	60' x 50'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
F	Oregon White Oak	23"	60' x 50'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
G	Oregon White Oak	19"	60' x 40'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
H	Oregon White Oak	23"	60' x 50'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
I	Oregon White Oak	17"	50' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
J	Oregon White Oak	26"	60' x 50'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
1071	Oregon White Oak	14"	40' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
1072	Oregon White Oak	23"	50' x 30'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
K	Oregon White Oak	24"	55' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H		X
10070	Oregon White Oak	21" M	60' x 40'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X
10069	Oregon White Oak	8"	25' x 8'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo, but close enough to be in the path of construction.	H		X

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H		R = RETAIN X = REMOVE
					H	X	
10067	Oregon White Oak	19"	50' x 30'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
10068	Oregon White Oak	13" M	50' x 25'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
10065	Oregon White Oak	15"	35' x 8'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
10066	Oregon White Oak	12" M	45' x 20'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
L	Oregon White Oak	24" M	30' x 18'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. This tree was missed on the survey map.	H	X	
3611	Bigleaf Maple	8" M	60' x 15'	M = Multi-Stem. 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
1241	Bigleaf Maple	27"	70' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
1261	Bigleaf Maple	20"	70' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
1264	Wild Cherry	26" M	30' x 20'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	X	
1251	Bigleaf Maple	20" M	50' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1249	Oregon White Oak	21"	40' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1250	Bigleaf Maple	22" M	25' x 15'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1253	Bigleaf Maple	14" M	30' x 15'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1246	Bigleaf Maple	12" M	40' x 20'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1169	Bigleaf Maple	12"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1170	Douglas Fir	9"	70' x 12'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1168	Bigleaf Maple	10" M	30' x 10'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1176	Bigleaf Maple	10"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
3588	Bigleaf Maple	20" M	30' x 30'	M = Multi-Stem. 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1252	Bigleaf Maple	22"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1253	Bigleaf Maple	24"	30' x 15'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1254	Bigleaf Maple	24" M	30' x 15'	M = Multi-Stem. 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1181	Bigleaf Maple	8"	20' x 10'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1182	Bigleaf Maple	10"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1255	Bigleaf Maple	18"	25' x 10'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1257	Oregon White Oak	27"	50' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1188	Douglas Fir	13"	80' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1186	Oregon White Oak	30"	80' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1187	Oregon White Oak	30"	80' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1258	Oregon White Oak	25"	30' x 15'	This is a significant tree. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1259	Oregon White Oak	20"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	

TREE SURVEY NUMBER (KEYED TO AERIAL)	TREE TYPE	TREE SIZE (" DBH)	HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H
					R = RETAIN X = REMOVE
1260	Oregon White Oak	19"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
10137	Black Locust	12" M	40' x 40'	M = Multi-Stem. 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
1205	Douglas Fir	26"	70' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
1208	Bigleaf Maple	18"	40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
M	Douglas Fir	10"	40' x 10'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
				This tree was missed on the survey map.	X
1312	Bigleaf Maple	18" M	30' x 15'	M = Multi-Stem. 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H
1311	Bigleaf Maple	20"	30' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H
1310	Bigleaf Maple	12"	25' x 10'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H
1214	Bigleaf Maple	15" M	40' x 20'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H
1443	Oregon White Oak	14"	50' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
1441	Oregon White Oak	38"	75' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
1442	Oregon White Oak	30"	75' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. This is a significant tree.	H
1444	Oregon White Oak	22" M	60' x 30'	M = Multi-Stem. 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
1444	Bigleaf Maple	13"	30' x 15'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
1445	Bigleaf Maple	14"	30' x 15'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	X
1453	Oregon White Oak	28"	70' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
1454	Oregon White Oak	15"	60' x 10'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
1455	Oregon White Oak	22"	70' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H
1455	Oregon White Oak	32"	80' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. This is a significant tree.	H
1523	Oregon White Oak	38"	90' x 40'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. This is a significant tree.	X
1524	Oregon White Oak	18"	50' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. H R	X
				Subtotal Total Trees Surveyed = 190	
				Data Total Significant Trees (30" DBH or Greater) Surveyed = 21	
				Total Significant Trees (30" DBH or Greater) Surveyed Affected (Inside the Delineated Study Area or So Close as to be Negatively Impacted) = 15	
				Total Significant Trees (30" DBH or Greater) Scheduled for Retention and Protection Using Specific Tree Protection Activities = 6	
				Total Trees Surveyed Actually Inside the Delineated Study Area and Path of Construction = 102	
				Total Trees Surveyed Outside the Delineated Study Area and Unaffected or Scheduled for Retention and Protection Using Specific Tree Protection Activities = 23	
				Total Trees Surveyed Outside the Delineated Study Area, But Still Negatively Impacted Because They are so Close to the Path of Construction = 65	
				Total Trees Surveyed Mostly Dead (>75%) = 3	
				Total Trees Surveyed Observed with Existing Significant Damage (Not Including Trees Damaged by Existing Utility Line Clearance) = 8	

Appendix B

Clackamas County Oregon Development Agency Ordinance

1002.04 TREES AND WOODED AREAS

- A. Existing wooded areas, significant clumps or groves of trees and vegetation, consisting of conifers, oaks and large deciduous trees, shall be incorporated in the development plan wherever feasible. Site planning and design techniques which address this standard include, but are not limited to, the following:
1. Siting of roadways and utility easements to avoid substantial disturbance of significant clumps or groves of trees; (3/24/05)
 2. Preservation of existing trees within rights-of-way and easements when such trees are suitably located, healthy, and when approved grading allows; (3/24/05)
 3. Use of flexible road standards as provided in Subsection 1007.03(A), including one-way roads or split-level roads, to preserve significant trees and avoid unnecessary disturbance of terrain; (3/24/05)
 4. Retention of specimen trees or clumps of trees in parking area islands or future landscape areas of the site as provided for in Section 1009.
 5. Use of wooded areas of the site for recreation, or other low-intensity uses, or structures, not requiring extensive clearing of large trees, grading, or filling activity which substantially alters the stability or character of the wooded area; (3/24/05)
 6. Retention of trees which are necessary to ensure the stability of clumps or groves of trees considering the type of trees, soil and terrain conditions, exposure to prevailing winds, and other site-specific considerations; (3/24/05)
 7. Use of trees and wooded areas to buffer, screen, or provide transitions between different or conflicting uses on and off the site; (3/24/05)
 8. Use of flexible-lot-size and planned unit development designs to minimize disturbance of wooded areas; (3/24/05)
 9. Siting of uses and structures to utilize the natural microclimates created by wooded areas and trees to reduce extremes in temperature, provide wind protection, filter pollutants, and replenish oxygen and moisture to the air; and (3/24/05)
 10. Use of other development techniques described in Subsection 1011.03(C). (3/24/05)

Clackamas County Oregon Development Agency Ordinance

1002.04 TREES AND WOODED AREAS (Continued)

- B. Trees and wooded areas to be retained shall be protected during site preparation and construction according to County design and specifications by:**
- 1. Avoiding disturbance of the roots by grading activity; (3/24/05)**
 - 2. Providing for water and air filtration to the roots of trees which will be covered with impermeable surfaces; (3/24/05)**
 - 3. Pruning or topping of trees which will be in parking areas or near buildings, as necessary, to maintain proper balance between top growth and roots, reduce windfall potential, and provide adequate vision clearances for safe vehicular circulation; and (3/24/05)**
 - 4. Requiring, if necessary, the advisory expertise of a qualified consulting arborist or horticulturist both during and after site preparation, and a special maintenance/management program to provide protection of specified wooded areas or specimen trees, as recommended by the arborist or horticulturist.**

Revised Tree Summary Tables

Tree Summary Table

(based on 15% conceptual design, revised 1/19/2011, subject to change)

Total No. Of Trees (>8") To Be Removed 98

(actually located within the revised alignment)

Trees To Be Removed By Size (dbh)

8" dbh to 29"	91
30" or greater	7

Trees Removed By Species

Oregon White Oak	26
Western Red Cedar	24
Bigleaf Maple	16
Norway Maple	8
Douglas Fir	6
Armstrong Red Maple	6
Red Oak	2
Green Ash	2
Raywood Ash	4
European White Birch	1
Black Locust	1
Single-Seeded Hawthorn	1
London Planetree	1

Trees To Be Removed By Health Condition

Healthy	91
Damaged	4
Dead	3

Trees To Be Removed By Location

Fuller Road, Harmony Road, and Roundabout	39
Sunnybrook West Corridor	58
Trail Relocation	1

Tree Summary Table

(based on 15% conceptual design, revised 1/19/2011, subject to change)

Total No. Of Trees (>8") Very Close That May Be Affected 21
(very close to the revised alignment with probable root or large branch impacts)

Trees Very Close That May Be Affected By Size (dbh)

8" dbh to 29"	18
30" or greater	3

Trees Very Close That May Be Affected By Species

Oregon White Oak	10
Western Red Cedar	3
Bigleaf Maple	4
Douglas Fir	2
Armstrong Red Maple	2
Raywood Ash	1
Black Locust	2
Black Walnut	2
Western Hackberry	1
Flowering Pear	2

Trees Very Close That May Be Affected By Health Condition

Healthy	21
Damaged	0
Dead	0

Tree Summary Table

(based on 15% conceptual design, revised 1/19/2011, subject to change)

Total No. Of Trees (>8") To Be Retained With Protection 73
(outside the revised alignment, probably not affected, but within 20')

Trees Outside The Revised Alignment With No Expected Impact,
But Within 20' By Species

Oregon White Oak	28
Bigleaf Maple	8
Douglas Fir	6
Armstrong Red Maple	4
Black Cottonwood	3
Pin Oak	1
Norway Maple	1
Green Ash	3
Orregon Ash	11
Sweet Gum	2
Pussy Willow	2
Wild Cherry	3
Austrian Pine	1

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE ("DBH")	MULTI STEM	HEIGHT AND SPREAD	SIGNIF. TREE (>30")	LOCATION	NOTES AND OTHER OBSERVATIONS	HEALTHY = H DAMAGED = DM DEAD = D (75%+) VC = VERY CLOSE R = RETAIN X = REMOVE	
								H X	
1168	Bigleaf Maple	10	M	30' x 10'	S		M = Multi-Stem, 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.		
1169	Bigleaf Maple	12		30' x 15'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1170	Douglas Fir	9		70' x 12'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1176	Bigleaf Maple	10		30' x 15'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1181	Bigleaf Maple (not on B&W or 2010 Aerial)	8		20' x 10'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	R
1182	Bigleaf Maple	10		30' x 15'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1186	Oregon White Oak	30		80' x 30'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo. This is a significant tree.	H	X
1187	Oregon White Oak	30		80' x 30'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo. This is a significant tree.	H	X
1188	Douglas Fir	13		80' x 30'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1205	Douglas Fir	26		70' x 30'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1208	Bigleaf Maple	18		40' x 20'	S		This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X
1214	Bigleaf Maple	15	M	REMOVE FROM LIST	40' x 20'	S	M = Multi-Stem, 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	R
1241	Bigleaf Maple	27		REMOVE FROM LIST	70' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	R
1246	Bigleaf Maple	12	M	40' x 20'	S	M = Multi-Stem, 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1249	Oregon White Oak	21		40' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1250	Bigleaf Maple	22	M	25' x 15'	S	M = Multi-Stem, 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1251	Bigleaf Maple	20	M	50' x 20'	S	M = Multi-Stem, 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1252	Bigleaf Maple	22		30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1253	Bigleaf Maple	14	M	30' x 15'	S	M = Multi-Stem, 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	
1254	Bigleaf Maple	24	M	30' x 15'	S	M = Multi-Stem, 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo.	H	X	

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE (" DBH)		SIGNIFICANT TREE (>30")		LOCATION H=Harmony; S=Sunnybrook; T=Trail	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H		
		Multi Stem	HEIGHT and SPREAD							
1255	Bigleaf Maple	18	25' x 10'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
1256	Bigleaf Maple	24	30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
1257	Oregon White Oak	27	50' x 20'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
1258	Oregon White Oak	25	30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
1259	Oregon White Oak	20	30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
1260	Oregon White Oak	19	30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	H	X		
		REMOVE FROM LIST		70' x 20'						
1261	Bigleaf Maple	20	70' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. M = Multi-Stem, 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R			
1264	Wild Cherry	26	M	30' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	R		
1310	Bigleaf Maple	12	25' x 10'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	VC			
1311	Bigleaf Maple	20	30' x 15'	S	M = Multi-Stem, 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	VC			
1312	Bigleaf Maple	18	M	30' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	VC		
1414	Bigleaf Maple	13		30' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	VC		
1415	Bigleaf Maple	14		30' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. This is a significant tree.	H	R		
1441	Oregon White Oak	38		Y	75' x 30'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. This is a significant tree.	H	VC	
1442	Oregon White Oak	30		Y	75' x 20'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
1443	Oregon White Oak	14			50' x 20'	S	M = Multi-Stem, 3 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1444	Oregon White Oak	22	M		60' x 30'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1445	Oregon White Oak	12			60' x 20'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
1453	Oregon White Oak	28			70' x 30'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
1454	Oregon White Oak	15			60' x 10'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
1455	Oregon White Oak	22			70' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE ("DBH)	Multi Stem	HEIGHT and SPREAD	Sig'nif. Tree (>30")	LOCATION	S=Sunnybrook; H=Harmonie; T=Trail	NOTES AND OTHER OBSERVATIONS		X = REMOVE VC = VERY CLOSE R = RETAIN
								DAMAGED = DM DEAD = D (75%+) HEALTHY = H	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. This is a significant tree.	
1465	Oregon White Oak	32	Y	80' x 30'	S					H R
1510	Douglas Fir	40	Y	90' x 20'	S					H R
1523	Oregon White Oak	38	Y	90' x 40'	S					VC
1524	Oregon White Oak	18		50' x 20'	S					R
1622	Black Cottonwood	32	Y	75' x 50'	S					H R
1628	Douglas Fir	37	Y	90' x 40'	S					R
1632	Pin Oak	17		50' x 30'	S					H R
1806	Oregon White Oak	44	M	80' x 60'	S					H R
1854	Western Red Cedar	12		30' x 15'	S					X
1865	Western Red Cedar	11	M	30' x 15'	S					X
1866	Western Red Cedar	10	M	25' x 15'	S					H VC
1873	Norway Maple	9		30' x 20'	S					DM X
1949	Douglas Fir	11		30' x 20'	S					X
1950	Green Ash	9		40' x 20'	S					X
1951	Red Oak	14		40' x 30'	S					X
1952	Red Oak	14		45' x 35'	S					X
2005	Oregon White Oak	20		60' x 30'	S					X
2006	Oregon White Oak	20		60' x 30'	S					X
2008	Single-Seeded Hawthorn	8		18' x 10'	S					X

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE (" DBH)		HEIGHT and SPREAD	LOCATION H=Harmony; S=Sunnybrook; T=Trail	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H
		Multi Stem	Signif. Tree (>30")				
2009	Oregon White Oak	19		40' x 18'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H VC
2014	Oregon White Oak	16		40' x 18'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H VC
2019	Douglas Fir	11		20' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H VC
2020	Douglas Fir	8		20' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2021	Oregon White Oak	26		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2023	Oregon White Oak	27		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2024	Oregon White Oak	26		50' x 40'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2025	Oregon White Oak	24		50' x 40'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2033	Green Ash	8		20' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2120	Oregon White Oak	20	M	60' x 30'	S	M = Multi-Stem, 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2121	Oregon White Oak	10		40' x 20'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2122	Oregon White Oak	14		40' x 20'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2123	Oregon White Oak	20	M	80' x 50'	S	M = Multi-Stem, 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2124	Oregon White Oak	11		40' x 25'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2151	Oregon White Oak	26	M	40' x 25'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. Mislabelled in Don's tree table as "2251".	H X
2152	Oregon White Oak	28	M	40' x 50'	S	M = Multi-Stem, 2 Trunks at 6'. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H VC
2153	Oregon White Oak	16		60' x 40'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H VC
2154	Oregon White Oak	14		40' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H VC
2250	Western Red Cedar	9		25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2253	Douglas Fir	12		45' x 18'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2256	Douglas Fir	12		45' x 18'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2263	Douglas Fir	11		45' x 18'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R

TREE SURVEY NUMBER	TREE TYPE	TREESIZE ("DBH")	MULTI STEM	SIGNIF. TREE (>30")	LOCATION		HEIGHT and SPREAD	NOTES AND OTHER OBSERVATIONS	HEALTHY = H DAMAGED = DM DEAD = D (75%+) VC = VERY CLOSE R = RETAIN X = REMOVE
					S= Sunnybrook; H= Harmony;	T= Trail			
2265	Bigleaf Maple	9			35' x 25'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but is so close as to probably lose branches during construction.		H R
2266	Bigleaf Maple	9			35' x 25'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but is so close as to probably lose branches during construction.		H R
2272	Oregon White Oak	60"	ADD TO LIST	Y		S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. This is a significant tree.		H VC
2282	Oregon White Oak	20	REMOVE FROM LIST	40' x 25'		S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2283	Oregon White Oak	20	REMOVE FROM LIST	40' x 25'		S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2284	Oregon White Oak	12	REMOVE FROM LIST	40' x 25'		S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2286	Oregon White Oak	13	M		REMOVE FROM LIST	40' x 25'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2287	Oregon White Oak	38	M		Y	60' x 40'	T	M = Multi-Stem. 2 Trunks at 6'. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. This is a significant tree.	H X
2290	Oregon White Oak	20				70' x 30'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H X
2300	Oregon White Oak	50	REMOVE FROM LIST	Y	75' x 60'	S	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo but is so close as to probably lose branches during construction.	H R	
2369	Western Red Cedar	8	M		25' x 18'	S	This is a significant tree.	H X	
2400	Oregon White Oak	51		Y	80' x 60'	S	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R	
2569	Green Ash	9			REMOVE FROM LIST	25' x 12'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H R
2597	Douglas Fir	9				20' x 12'	S	This tree is outside the delineated study area for Sunnybrook Blvd., as shown on the attached aerial photo, but is so close as to probably lose branches during construction.	H VC

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE (" DBH)			Signif. Tree (>30")	HEIGHT and SPREAD	LOCATION H=Harmony; S=Sunnybrook; T=Trail	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H
		Multi Stem							
2598	Norway Maple	9			REMOVE FROM LIST 25' x 12'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2607	Oregon Ash	17	M		REMOVE FROM LIST 40' x 30'	S	M = Multi-Stem, 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2616	Pussy Willow	18	M		REMOVE FROM LIST 30' x 30'	S	M = Multi-Stem, 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2617	Pussy Willow	13	M		REMOVE FROM LIST 30' x 30'	S	M = Multi-Stem, 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
2723	Armstrong Red Maple	9			40' x 15'	H	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
2724	Armstrong Red Maple	9			40' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
2725	Armstrong Red Maple	9			40' x 15'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
2726 (DUP #)	Armstrong Red Maple	9			40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
MISSING #	Armstrong Red Maple	9"			40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
3588	Bigleaf Maple	20	M		30' x 30'	S	M = Multi-Stem, 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H VC
<hr/>									
3611	Bigleaf Maple (not on B&W or 2010 aerial)	8	M		REMOVE FROM LIST 60' x 15'	S	M = Multi-Stem, 4 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
10001	Green Ash	12			40' x 30'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H R
10002	Green Ash	12			25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
10003	Armstrong Red Maple	9			40' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.		H X
10005	Armstrong Red Maple	9			40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.		H R
10006	Armstrong Red Maple	9			40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.		H VC

TREE SURVEY NUMBER	TREE TYPE	TREESIZE ("DBH)	HEIGHT and SPREAD	SIGNIF. TREE (>30")	LOCATION	NOTES AND OTHER OBSERVATIONS	X = REMOVE	
							R=RETAIN	V=VERY CLOSE
10010	Black Walnut	14	M	30' x 30'	S	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines.	DM	R
10011	Wild Cherry	8	M	20' x 15'	S	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in severely damaged condition.	DM	R
10012	Sweet Gum	11		35' x 25'	S	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under power lines.	DM	R
10013	Austrian Pine	17		REMOVE FROM LIST	30' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in fair condition.	H	R
10014	Sweet Gum	8		REMOVE FROM LIST	30' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in fair condition.	H	R
10015	Oregon Ash	15		REMOVE FROM LIST	30' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in fair condition.	H	R
10021	Oregon White Oak	48			Y	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned. This is a significant tree.	DM	X
10022	Black Locust	38			Y	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned. This is a significant tree.	DM	R
10023	Oregon White Oak	15			35' x 30'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines and has been severely pruned. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo.	DM	X
10024	Bigleaf Maple	28			25' x 40'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This is a significant tree.	H	X
10025	Bigleaf Maple	36			25' x 40'	M = Multi-Stem. 6 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. This is a significant tree.	H	X
10026	Black Locust	22	M	ADD TO LIST	25' x 30'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is in fair condition.	H	R
10027	Western Hackberry	30			Y	This tree is outside the delineated study area for Sunnybrook Blvd.	H	R
10028	London Planetree	25			25' x 25'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in fair condition.	H	X
10029	Oregon White Oak	15			25' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. It is under existing power lines. It is in fair condition.	H	R
10030	Raywood Ash	10			25' x 12'	This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the attached aerial photo. Mostly dead.	D	X
10031	Western Red Cedar	31	M		Y	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd, as shown on the aerial photo. This is a significant tree.	H	X

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE (" DBH)		HEIGHT and SPREAD		LOCATION H=Harmony; S=Sunnybrook; T=Trail	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H
		Multi Stem	Signif. Tree (>30")	HEIGHT	SPREAD			
10032	Western Red Cedar	20	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10033	Western Red Cedar	21	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10034	Western Red Cedar	21	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10035	Western Red Cedar	27	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10036	Western Red Cedar	19	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10037	Western Red Cedar	20	M	40' x 20'	H	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H	X
10038	Western Red Cedar	28		40' x 20'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10039	European White Birch	9		15' x 8'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. Mostly dead.	D	X
10040	Raywood Ash	12		25' x 18'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10041	Raywood Ash	14		25' x 18'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10042	Raywood Ash	12		25' x 18'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R
10043	Norway Maple	12		30' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10044	Western Red Cedar	8		20' x 8'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10045	Raywood Ash	12		25' x 18'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10046	Norway Maple	8		25' x 20'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10047	Western Red Cedar	9		20' x 8'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10048	Norway Maple	10		30' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10049	Norway Maple	10		25' x 20'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10050	Norway Maple	14		30' x 20'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10051	Norway Maple	17		30' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10052	Norway Maple	14		30' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10053	Norway Maple	10		30' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10056	Western Red Cedar	10		25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X
10057	Western Red Cedar	14		25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X

TREE NUMBER	TREE TYPE	TREE SIZE ("DBH")	HEIGHT and SPREAD	LOCATION	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAIRY = DM HEALTHY = H RETAIN = R CLOSE = VC VEERY CLOSE = X REMOVE = X
10058	Western Red Cedar	16	25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. Severe lean.	DM
10059	Western Red Cedar	20	25' x 18'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
10060	Western Red Cedar	22	M	35' x 20'	M = Multi-Stem. 4 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	H
10061	Western Red Cedar	16	M	35' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo.	X
10065	Oregon White Oak	15	35' x 8'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	VC
10066	Oregon White Oak	12	M	45' x 20'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	R
10067	Oregon White Oak	19		50' x 30'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	R
10068	Oregon White Oak	13	M	50' x 25'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
10069	Oregon White Oak	8	25' x 8'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
10070	Oregon White Oak	21	M	60' x 40'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	VC
10071	Oregon White Oak	14		40' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	VC
10072	Oregon White Oak	23		50' x 30'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	R
10075	Flowering Pear	10		25' x 20'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	R
10076	Flowering Pear	12		30' x 25'	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	R
10137	Black Locust	12	M	40' x 40'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
10140	Western Red Cedar	9	M	30' x 20'	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	VC
10141	Western Red Cedar	9	M	30' x 20'	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. It is in fair condition.	VC
10142	Raywood Ash	10		25' x 12'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. Mostly dead.	D
10143	Western Red Cedar	36	M	Y 40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the aerial photo. This is a significant tree.	X
10144	Western Red Cedar	21		40' x 20'	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X
10145	Western Red Cedar	19	M	40' x 20'	M = Multi-Stem. 2 Trunks. This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	X

TREE SURVEY NUMBER	TREE TYPE	TREE SIZE (" DBH)		Signif. Tree (>30")	HEIGHT and SPREAD	LOCATION H=Harmony; S=Sunnybrook; T=Trail	NOTES AND OTHER OBSERVATIONS	DEAD = D (75%+) DAMAGED = DM HEALTHY = H	R = RETAIN VC = VERY CLOSE X = REMOVE
		Multi Stem							
10146	Armstrong Red Maple	9		40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10147	Armstrong Red Maple	9		40' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction.	H	VC	
10148	Armstrong Red Maple	9		40' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
10149	Armstrong Red Maple	9		40' x 15'	H	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
10152	Wild Cherry	8	M	18' x 15'	S	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	DM	R	
10155	Oregon White Oak	24	M	30' x 18'	S	M = Multi-Stem. 2 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10156	Oregon White Oak	24		55' x 25'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10157	Oregon White Oak	26		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10158	Oregon White Oak	23		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10159	Oregon White Oak	17		50' x 15'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10160	Oregon White Oak	19		60' x 40'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10162	Oregon White Oak	23		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10163	Oregon White Oak	22		60' x 50'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10164	Oregon White Oak	41	M	75' x 60'	S	M = Multi-Stem. 3 Trunks. This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo. This is a significant tree.	H	R	
10168	Black Cottonwood	16	M	REMOVE FROM LIST 40' x 20'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10169	Black Cottonwood	10	M	50' x 30'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	R	
10171	Douglas Fir	10		40' x 10'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
10172	Douglas Fir	11		40' x 10'	S	This tree is inside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo.	H	X	
?????	Black Walnut (not on B&W or 2010 aerial)	12		20' x 12'	S	This tree is outside the delineated study area for Sunnybrook Blvd. as shown on the attached aerial photo, but close enough to be in the path of construction. It is under existing power lines.	H	R	