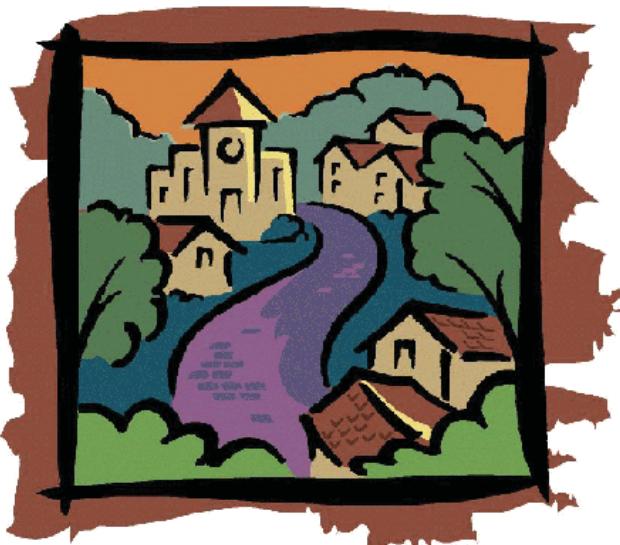


VILLEBOIS

SPECIFIC AREA PLAN – SOUTH

Vol. IV: COMMUNITY ELEMENTS BOOK



villebois



Add amended date and city case file #
upon adoption

August 4, 2003

Walker Macy
Landscape Architects & Planners
Fletcher Farr Ayotte
Architects
Iverson Associates
Architecture
Alpha Engineering, Inc.
Civil Engineers and Planners
William L. Owen & Associates
Tree and Landscape Consulting



This Community Elements Book is a key component in the development of Villebois. This plan identifies plants, street trees, tree protection, lighting, curb extensions, play structures and site furnishings to be used throughout the community. These are important contributing elements that will establish a coherent identity for the community while meeting Villebois' goals for connectivity, diversity and sustainability.

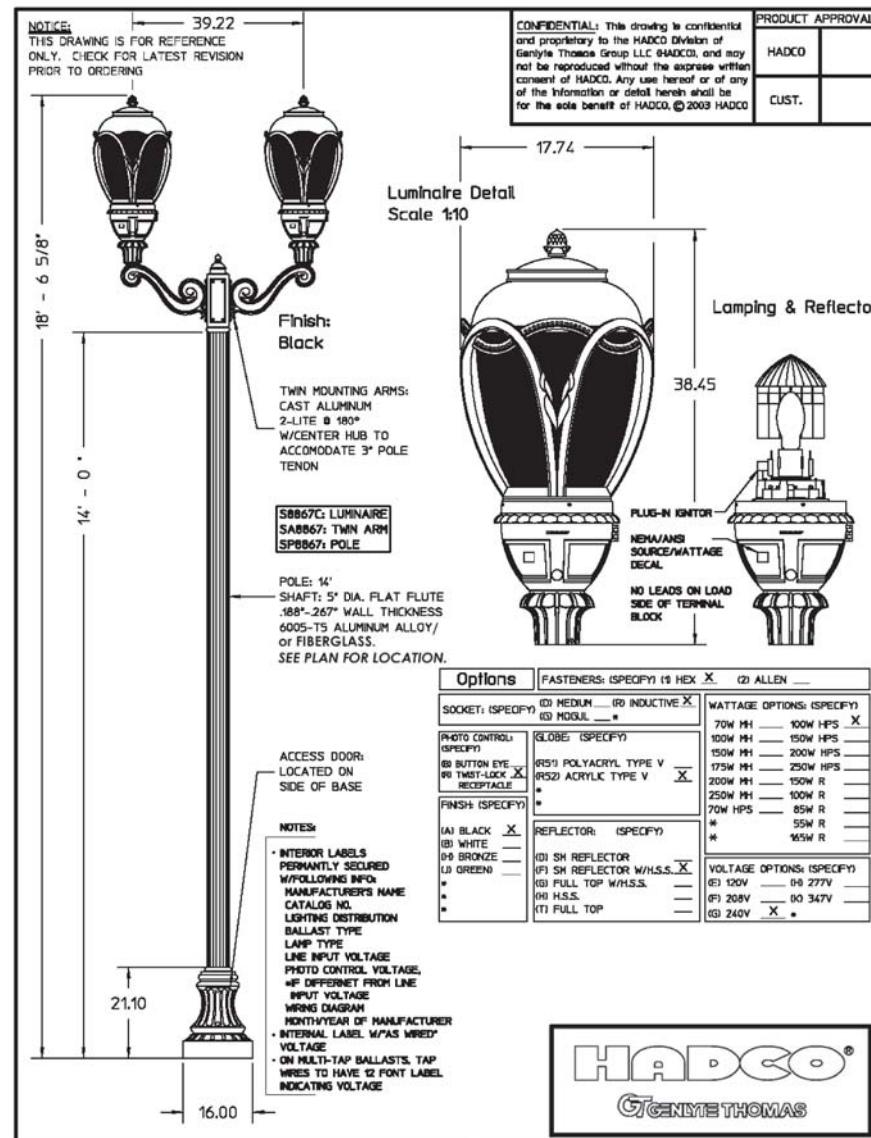
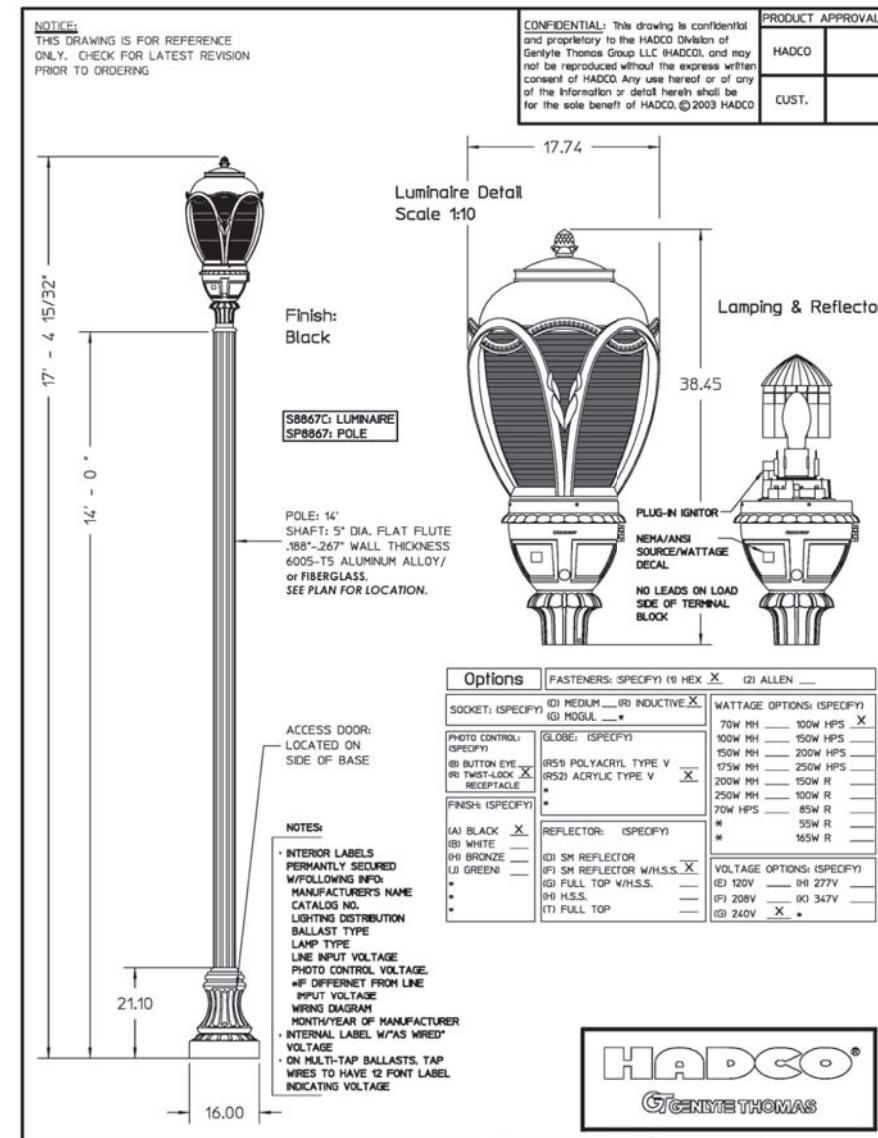
Contents

Add page for additional
lighting detail and
update page numbers

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Villebois



Substitutions to the above light fixtures must be an approved equal as determined by the Master Planner and pre-approved by PGE.



Examples of selected light fixtures from recently-built projects.



LIGHTING MASTER PLAN CONCEPT

The Lighting Concept for Villebois is an important element of the community's plan. Lighting is often overlooked in the myriad details of construction and design, but when considered carefully, good lighting can contribute to a coherent identity for a community while meeting traditional goals of safety and wayfinding.

Connectivity: The Lighting Concept is intended to provide clear connections throughout Villebois. These connections will occur on primary streets, intersections, and the greenway. The light fixtures, including Luminare, Pole, and Base will be the same throughout the community to provide a sense of unity and connectivity.

Diversity: Light levels will vary based on the location. Variations in number of heads, spacing and light levels will establish a hierarchy for the streets and neighborhoods.

The drawings and photos provided illustrate the specific light fixtures that have been selected for Villebois streets, trails and parks. The plan illustrated on the following page describes the concept for the placement and spacing of the selected fixtures, and the light level, or "Candle Power" that is recommended for different streets at Villebois. The general concept is for light levels to remain low around the community's edges, especially adjacent to protected greenspaces, and increase in intensity closer to the Village Center.

Sustainability: In order to respect the community's sense of place and proximity to nature, the lighting at Villebois is also restricted to those fixtures that minimize light pollution, and allow night-sky viewing.

LIGHT FIXTURE

Luminare: Hadco S8867C

Pole: 14 Foot Decorative Cast Aluminum - Anchor Base
Hadco:P-2065-14-A or Hapco: 77920

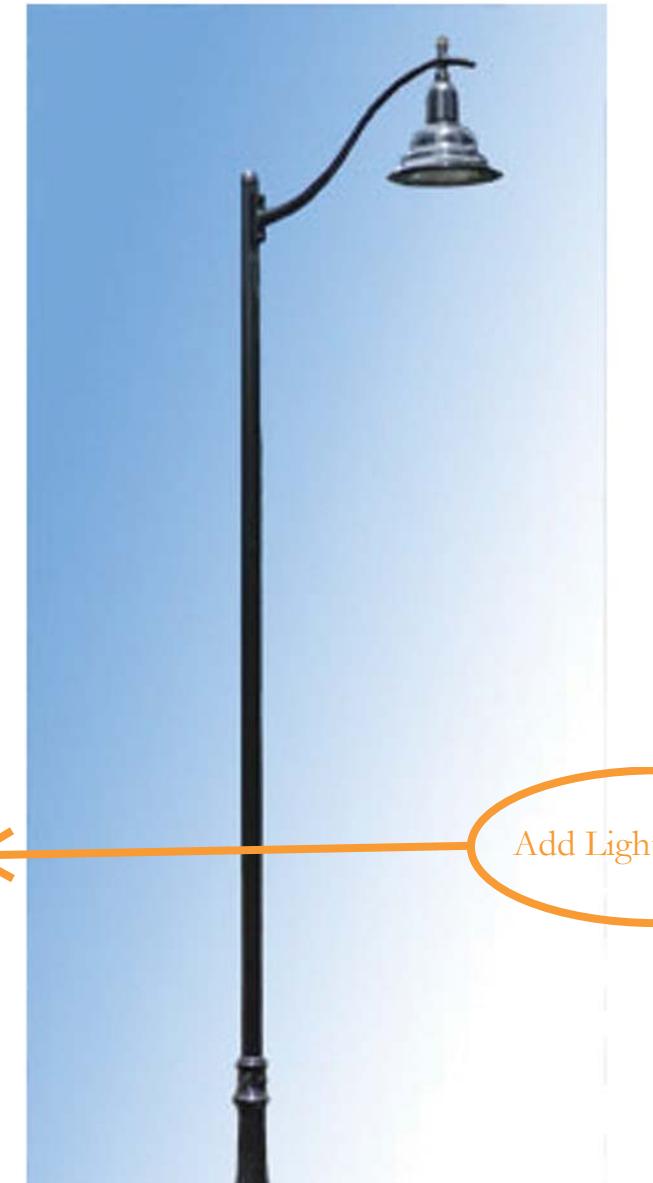
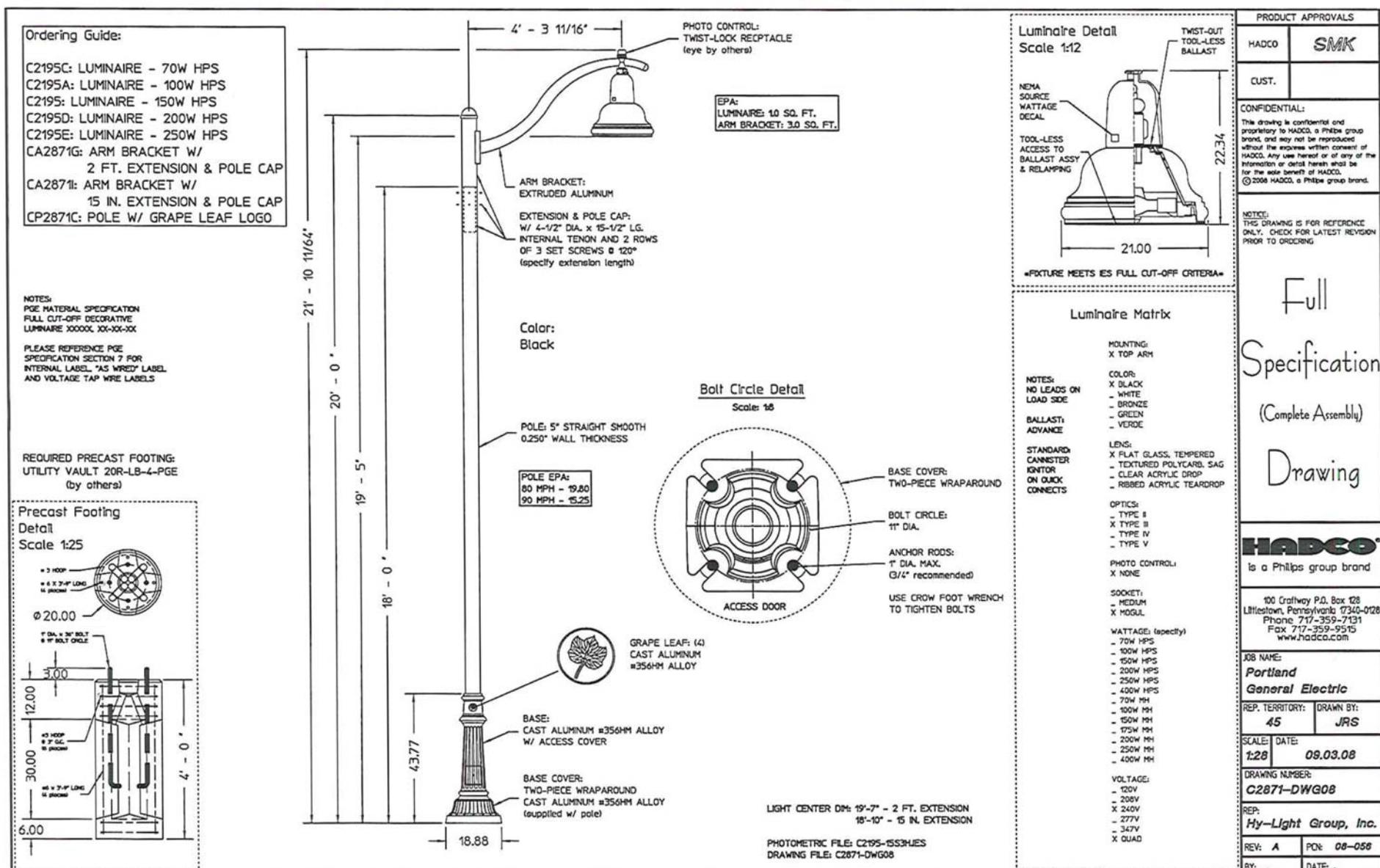
16 Foot Decorative Cast Aluminum
Hadco:P-2165-16-A or Hapco: 77920X16

Footing: AB Chance: C11242NG4TK w/ round mounting plate
Concrete footing PGE specifications - In Swales

Finish: Black



Villebois

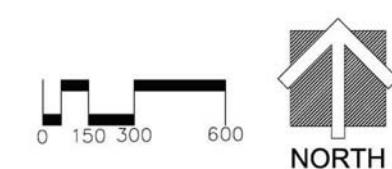
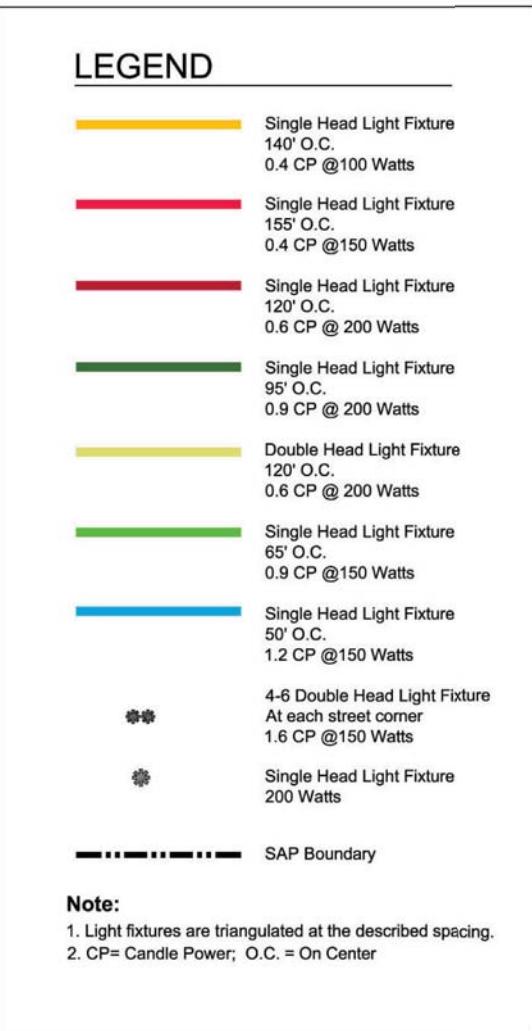


Add Lighting Detail



Villebois

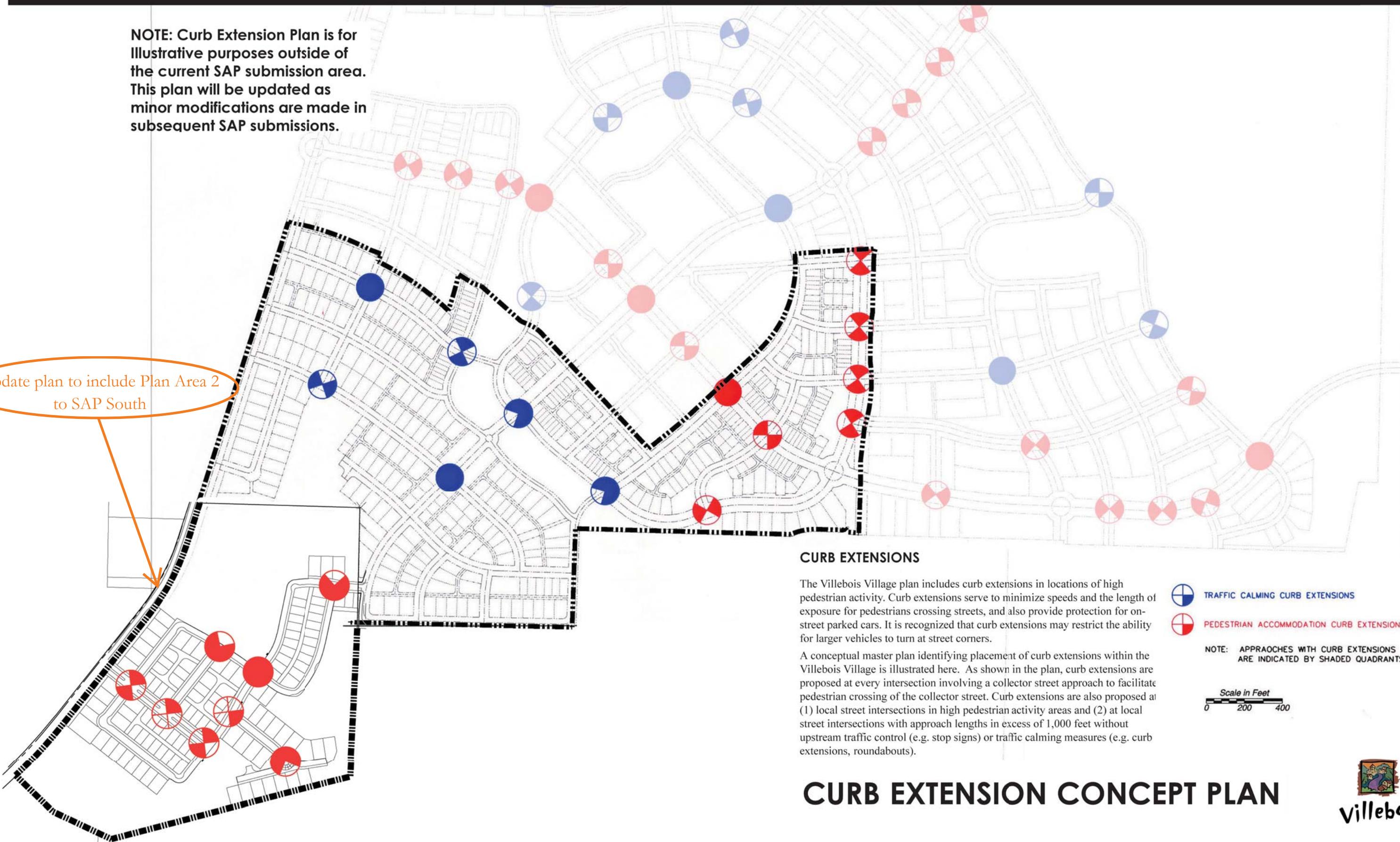
NOTE: Lighting Concept Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.



Villebois

NOTE: Curb Extension Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.

Update plan to include Plan Area 2 to SAP South

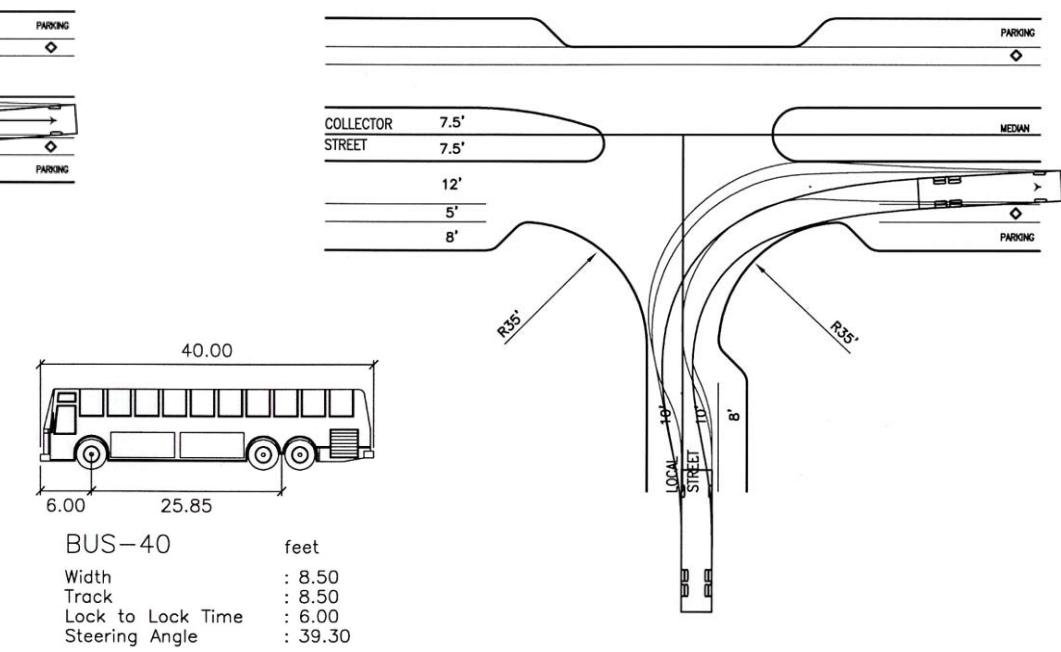
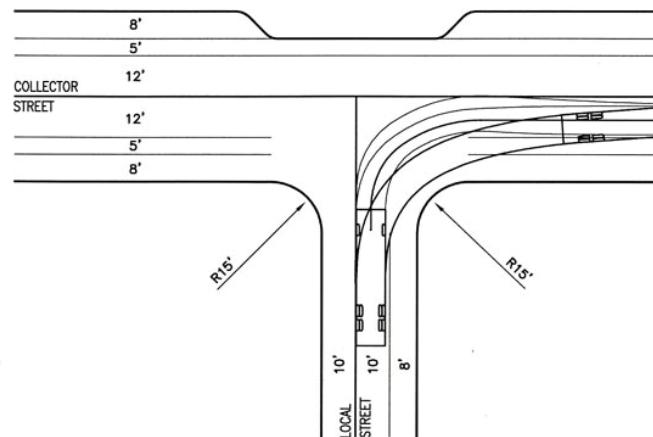


CURB EXTENSIONS

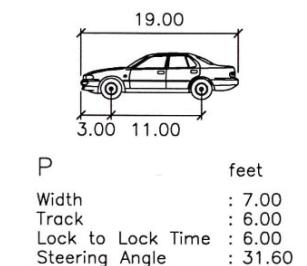
The Villebois Village plan includes curb extensions in locations of high pedestrian activity. Curb extensions serve to minimize speeds and the length of exposure for pedestrians crossing streets, and also provide protection for on-street parked cars. It is recognized that curb extensions may restrict the ability for larger vehicles to turn at street corners.

The following basic principles shall be used for the placement and design of curb extensions:

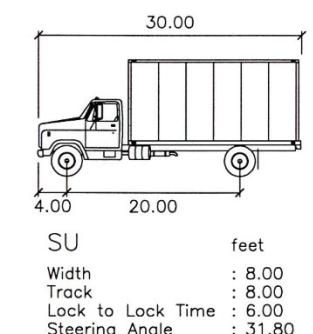
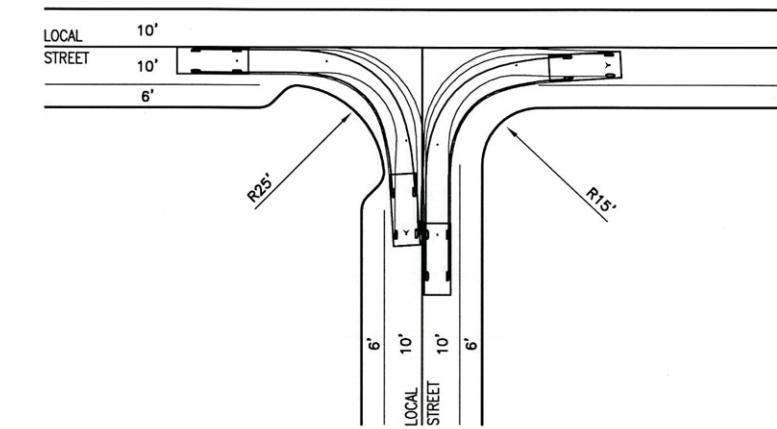
- A minimum of 20-foot face-of-curb- to face-of-curb street width shall be provided at all residential street intersections, even where curb extensions are located. In the Village Center (inside the Village Loop), the minimum curb-to-curb street width should be 22 feet, in order to accommodate delivery and garbage truck movements.
- Fire trucks, buses, and single-unit trucks (i.e., garbage trucks) shall be able to negotiate from collector/arterial streets without crossing the collector/arterial street centerline. Fire trucks shall be able to negotiate through residential streets, although it is acceptable for them to cross the street centerline on residential streets.
- Passenger car turning movements shall be able to stay within the street centerline on all streets.
- Bike lanes shall not be forced into vehicle travel lanes.
- Applicable curb return radii for combinations of collector street/local street intersections with various cross-sections are illustrated on this page.



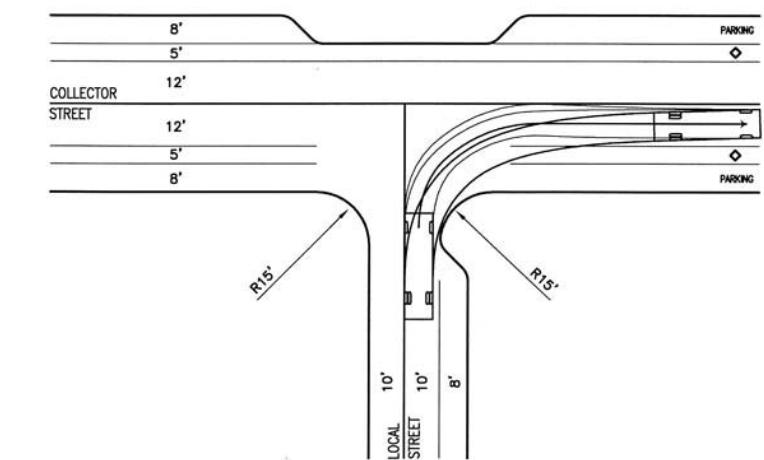
BUS/FIRE TRUCK TURNING RADII DETAILS



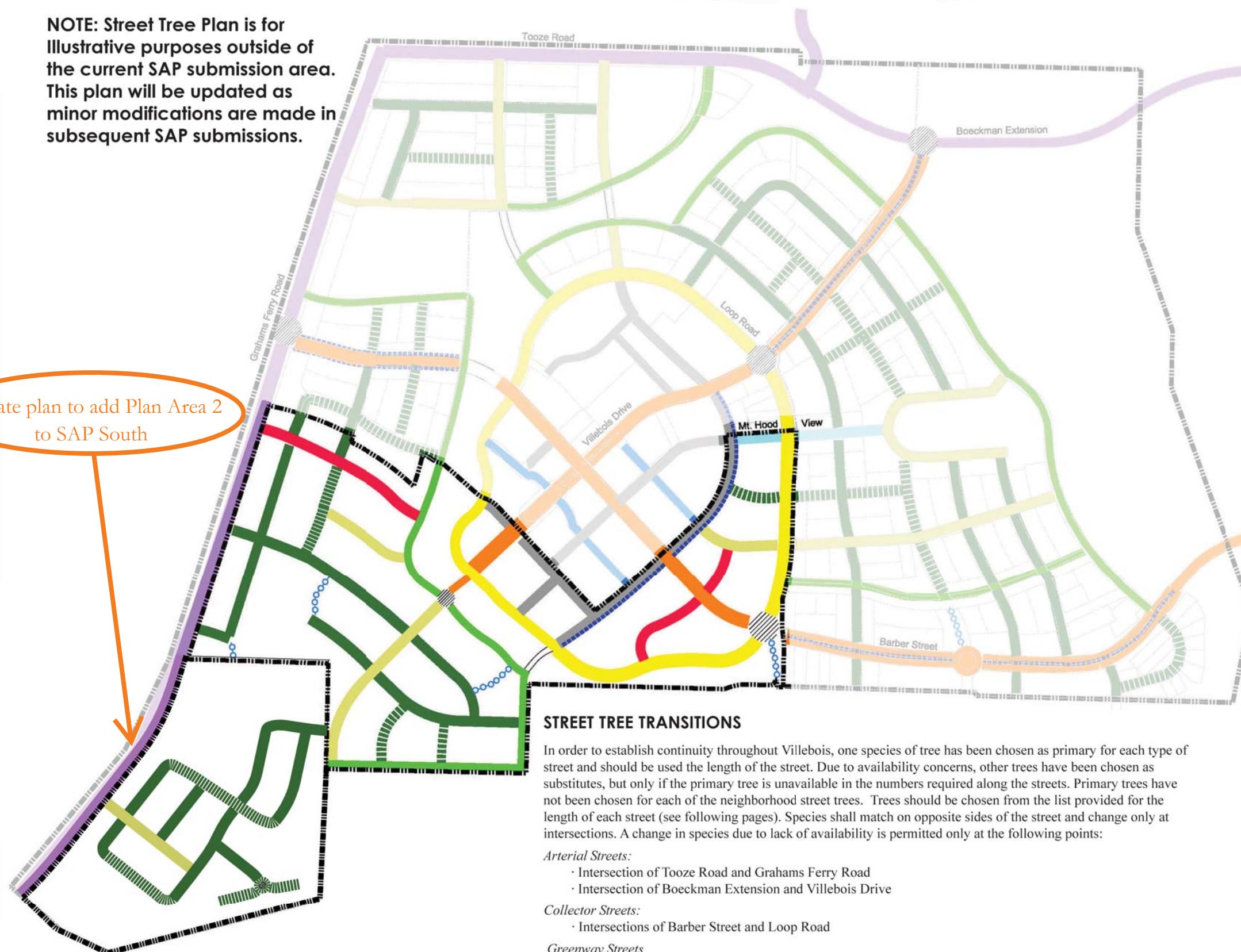
CAR TURNING RADII DETAIL



TRUCK TURNING RADII DETAILS



NOTE: Street Tree Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.



LEGEND

- A. Grahams Ferry, Tooze, Boeckman
40' O.C. Spacing, 2½" Caliper
- B. Barber Street, Villebois Drive
25' O.C. Inside Loop Road, 2 ½" Caliper
35' O.C. Outside Loop Road, 2½" Caliper
- C. Loop Road
25' O.C. Spacing, 2" Caliper
- D. Greenway Streets
30' O.C. Spacing, 2" Caliper
- E. Streets with Existing Street Trees
Spacing Varies, 2" Caliper
- F. Village Center Streets
25' O.C. Spacing, 2" Caliper
- G. Private Woonerf Streets
Spacing Varies, 2" Caliper
- H. Mt. Hood View
25' O.C. Spacing, 2" Caliper
- I. Significant Residential Streets
30' O.C. Spacing, 2" Caliper
- J. Primary Residential Streets
30' O.C. Spacing, 2" Caliper
- K. Secondary Residential Streets
30' O.C. Spacing, 2" Caliper
- L. Accent Trees at Roundabouts
Spacing Varies, 2" Caliper
Dependent on Vision Clearance
- M. Swales
Spacing and Caliper Varies according to Street Type
- N. Pedestrian Linkage
30' O.C. Spacing, 2" Caliper
- O. Greenway Crossing - No Street Trees
Except Villebois Drive

SAP South Boundary



Villebois

STREET TREE CONCEPT

The Street Tree Concept for Villebois addresses the Master Plan's core principles of connectivity, diversity and sustainability. Street tree patterns are key to a community's visual quality and livability. The following is a summary of how the selection of street trees relate to Villebois' core principles:

Connectivity: A carefully-selected palette of street trees can serve as an intrinsic form of wayfinding. The choice of trees at Villebois has been tailored to match the significance and role of the street. A hierarchy of street trees has been established in response to the hierarchy of streets. For example, broader arterials or collectors feature larger, taller trees with broad foliage in summer. Neighborhood street trees contribute to a more intimate scale, and perhaps might grow over the street to form a tunnel effect as the canopies meet from either side of the street. Streets along greenways feature trees that match the character of greenway plantings. On certain streets, views of Mt. Hood are emphasized through the use of trees that are tall and columnar.

Another important element in the selection of street trees is the recognition of the need to provide a continuity of vegetation types, as a wayfinding element. For example, in 20 years, someone could be driving on the Villebois Village Center Loop Road, which features colorful Tulip Trees and arriving at a roundabout, they will be able to discern that to continue along the Loop Road, they can simply follow the line of Tulip Trees that curves ahead beyond the roundabout. Similarly, pedestrians at Villebois could recognize a neighborhood by noticing the distinct Honey Locust tree that may only be planted along such streets.

Diversity: The wide variety of trees planted along streets will serve to enhance the diversity of housing choices and open spaces. In the future, residents of different Villebois neighborhoods will be able to distinguish their particular "place" by the type of street tree growing there. Implicit in this goal of diversity is the recognition that there should be no areas in Villebois that feature monotonous stretches of a single type of tree. Diversity of bird and small mammal habitat is another important benefit from the planting of a variety of tree species, which also contributes to the level of sustainability of Villebois.

Sustainability: Villebois will demonstrate a certain measurable level of environmental protection through the provision of numerous street trees, which can cool microclimates by shading asphalt and filtering breezes. Street trees have also been proven to clean certain amounts of auto emissions and they serve to 'capture' rainwater and release it slowly. Street trees, when combined with carefully designed open spaces and protected ecosystems nearby, can also provide important migratory and resident bird habitat.

Street Tree Transitions: Establishing continuity is also an important aspect of street tree selection. Continuity helps to link neighborhoods and streets and establish a sense of order and importance for certain streets. In order to establish continuity throughout Villebois, one species of tree has been chosen as primary for each type of street and should be used the length of the street, as indicated in the Street Tree Diagram. Due to availability concerns, other trees have been chosen as substitutes, but only if the primary tree is unavailable in the numbers required along the streets. A change in species may be used due to lack of availability but only at the following points:

Arterial Streets:

- Intersection of Tooze Road and Grahams Ferry Road
- Intersection of Boeckman Extension and Villebois Drive

Collector Streets:

- Intersections of Barber Street and Loop Road

Greenway Streets

- Intersection of Coffee Lake Drive and Villebois Drive
- Roundabout intersection in SAP South

Primary trees have not been chosen for each of the neighborhood street trees. Trees should be chosen from the list provided for the length of each street. Species shall match on opposite sides of the street and change only at intersections.

STREET TREE LIST & PHOTOGRAPHS

** Asterix denotes that this tree is the preferred species, to be planted in continuous stretches of approx. 600' length. All other species listed may be considered as substitutes subject to approval by the master planner.*

NOTE: Color bars refer to lines used in preceding street tree diagram.



Quercus rubra - Red Oak

ARTERIAL / COLLECTOR STREET TREES: Grahams Ferry Road, Tooze Road, Boeckman Extension

- **Quercus rubra* - Red Oak
- Quercus coccinea* - Scarlet Oak
- Tilia tomentosa* - Silver Linden
- Tilia x euchlora* - Crimean Linden
- Fagus sylvatica* - European Beech
- Quercus macrocarpa* - Bur Oak



Ulmus hybrida - Accolade Elm

COLLECTOR STREET TREES:

Barber Road, Villebois Drive

**Ulmus japonica x wilsoniana 'Morton'* -
Accolade Elm

Ulmus 'Frontier' - Frontier Elm

Zelkova serrata 'Green Vase' - Green Vase
Zelkova

Zelkova serrata 'Village Green' - Village Green
Zelkova



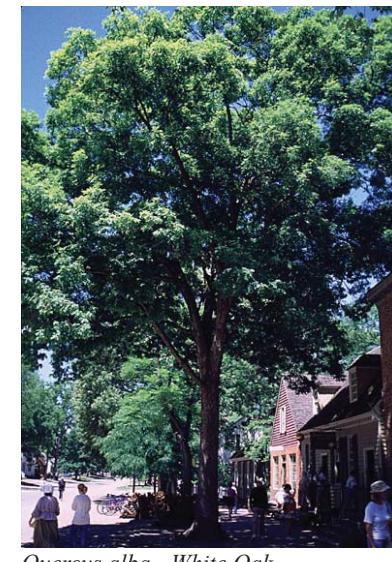
Liriodendron tulipifera - Tulip Tree

LOOP ROAD STREET TREES

**Liriodendron tulipifera* - Tulip Tree

Platanus acerifolia 'Bloodgood' - Bloodgood
London Planetree

Ginkgo biloba 'Autumn Gold' - Autumn Gold
Ginkgo



Quercus alba - White Oak

GREENWAY STREETS TREES: D Street

**Quercus alba* - White Oak

Quercus rubra - Red Oak

Aesculus x carnea 'Briotti' - Red Horsechestnut

Quercus robur - English Oak

Cladrastis kentukea - Yellowwood



Villebois



Liriodendron tulipifera 'Fastigiatum' - Columnar Tulip Tree

MT. HOOD VIEW STREET TREES:

T Street

- **Liriodendron tulipifera 'Fastigiatum'* - Columnar Tulip Tree
- Ginkgo biloba 'Princeton Sentry'* - Princeton Sentry Ginkgo
- Pyrus calleryana 'Glens Form'* - Chanticleer Pear
- Fagus sylvatica 'Dawyck Purple'* - Dawyck Purple Beech



Acer x fremanii 'Armstrong' - Armstrong Red Maple

PRIVATE WOONERF STREET TREES

- Pyrus calleryana 'Glensform'* - Chanticleer Pear
- Pyrus calleryana 'Redspire'* - Redspire Pear
- Zelkova serrata 'Musashino'* - Musashino Zelkova
- Acer x fremanii 'Armstrong'* - Armstrong Red Maple
- Gleditsia triacanthos 'Shademaster'* - Shademaster Honeylocust
- Gleditsia triacanthos 'Skyline'* - Skyline Honeylocust
- Gleditsia triacanthos 'Impcole'* - Imperial Honeylocust
- Koelreuteria paniculata* - Goldenrain Tree



Quercus robur - English Oak



SECONDARY RESIDENTIAL STREET TREES: K, J, M, N & S Streets

- Landscape Strips 5' - 8' Wide*
- Acer pseudoplatanus* - Sycamore Maple
- Koelreuteria paniculata* - Goldenrain Tree
- Acer rubrum 'Red Sunset'* - Red Sunset Maple
- Cornus florida* - Flowering Dogwood
- Crataegus viridis 'Winter King'* - Winter King Hawthorne
- Landscape Strips 8'+ Wide*
- Quercus robur* - English Oak
- Catalpa speciosa* - Northern Catalpa
- Quercus acutissima* - Sawtooth Oak
- Quercus macrocarpa* - Bur Oak



Platanus acerifolia - London Planetree

SIGNIFICANT RESIDENTIAL STREET TREES: H, L & R Streets

Landscape Strips 5' - 8' Wide

- Acer x fremanii 'Autumn Blaze'* - Autumn Blaze Maple

- Zelkova serrata 'Green Vase'* - Green Vase Zelkova

- Zelkova serrata 'Village Green'* - Village Green Zelkova

Landscape Strips 8'+ Wide

- Aesculus x carnea 'Briotti'* - Red Horsechestnut

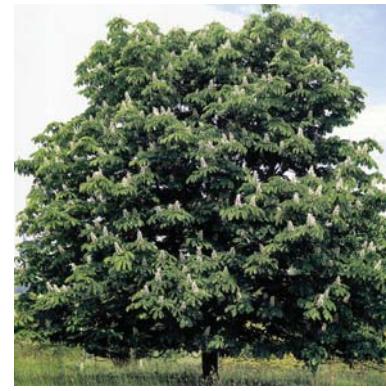
- Platanus acerifolia 'Bloodgood'* - Bloodgood London Planetree

- Cercidophyllum japonicum* - Katsura Tree

- Quercus palustris* - Pin Oak

- Quercus macrocarpa* - Bur Oak

- Ginkgo biloba* - Ginkgo



Aesculus x carnea - Red Horsechestnut

PRIMARY RESIDENTIAL STREET TREES: C & B Streets

Landscape Strips 5' - 8' Wide

- Tilia x euchlora* - Crimean Linden

- Fagus sylvatica* - European Beech

- Fagus sylvatica 'Riversii'* - Rivers Beech

- Acer x fremanii 'Autumn Blaze'* - Autumn Blaze Maple

- Fraxinus oxycarpa 'Raywood'* - Raywood Ash

- Fraxinus americana 'Autumn Applause'* - Autumn Applause Ash

Landscape Strips 8'+ Wide

- Aesculus x carnea 'Briotti'* - Red Horsechestnut

- Quercus coccinea* - Scarlet Oak

- Celtis occidentalis* - Hackberry

- Quercus phellos* - Willow Oak



Gleditsia triacanthos - Honeylocust

VILLAGE CENTER STREET TREES: O, F & P Streets

- Gleditsia triacanthos 'Shademaster'* - Shademaster Honeylocust

- Gleditsia triacanthos 'Skyline'* - Skyline Honeylocust

- Pyrus calleryana 'Glensform'* - Chanticleer Pear

- Pyrus calleryana 'Redspire'* - Redspire Pear

- Platanus acerifolia 'Bloodgood'* - Bloodgood London Planetree

- Sophora japonica* - Chinese Scholar Tree

- Acer x fremanii 'Armstrong'* - Armstrong Red Maple





Cercis canadensis - Eastern Redbud



ACCENT TREES FOR ROUNDABOUTS AND INFILL ON STREETS WITH EXISTING TREES: I & Q Streets

Cercis canadensis - Eastern Redbud
Cornus florida - Flowering Dogwood
Pyrus calleryana 'Aristocrat' - Aristocrat Pear
Stewartia pseudocamellia - Japanese Stewartia

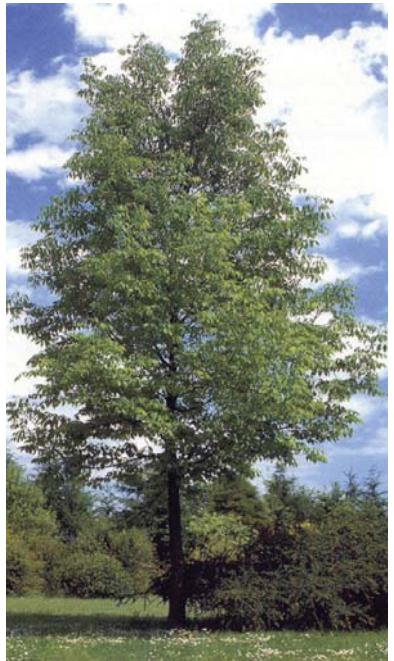


Cercidiphyllum japonicum - Katsura Tree



TREES FOR MINOR PEDESTRIAN PATHWAYS

Quercus alba - White Oak
Quercus rubra - Red Oak
Aesculus x carnea 'Briotti' - Red Horsechestnut
Quercus robur - English Oak
Cercidiphyllum japonicum - Katsura Tree



Fraxinus latifolia - Oregon Ash



STREET TREES FOR SWALES

Alnus rubra - Red Alder
Fraxinus latifolia - Oregon Ash
Quercus bicolor - Swamp White Oak
Salix babylonica - Babylon Weeping Willow
Ulmus japonica x wilsoniana 'Morton' - Accolade Elm (Side Slope Only)
Ulmus 'Frontier' - Frontier Elm (Side Slope Only)
Zelkova serrata 'Green Vase' - Green Vase Zelkova (Side Slope Only)
Zelkova serrata 'Village Green' - Village Green Zelkova (Side Slope Only)
Acer macrophyllum - Big Leaf Maple (12' Minimum Planting Areas)



Villebois

SITE FURNISHINGS CONCEPT

Site furnishings at Villebois have been selected for their simplicity and elegance of design and to provide continuity between private dwellings and public space. Site furnishings are the background elements of a community which serve to reinforce the aesthetic theme of a place like Villebois. One rarely thinks about the bench in a park, or the simple bicycle rack, but these are the elements that build identity and provide continuity.

Connectivity: An extensive network of pedestrian sidewalks and the Villebois Greenway enhances the connectivity throughout Villebois. Site furnishings are support elements for these pedestrian connections creating strong links between neighborhoods, parks, and the Village Center.

Diversity: While it is important to use similar elements to develop aesthetic unity, it is equally important to include a variety of amenities to build diversity throughout Villebois. For example, a teak bench has been chosen for neighborhood parks to create a more park-like character, whereas the hardwood bench with metal armrests will be placed in the Village Center and the Greenway's edge to create a more urban feeling. Also, wood bollards will be installed at Greenway crossings and will contrast with iron bollards at the Village Center Plaza, helping to give these areas different characteristics.

Sustainability: Much of the site furnishings for Villebois were chosen because of the type of wood and harvesting methods the manufacturers guarantee. For example, the 'Ipe' wood in the "Plainwell Series" bench is certified by the Forestry Stewardship Council (FSC). Wood products that carry the FSC logo are guaranteed to be from well-managed forests with environmental management as a top priority.

The following pages and the next four pages show specific models of site furnishings which have been selected for Villebois. Substitutions must be approved by the Master Planner and should match these models as closely as possible. Wherever possible, site furnishings should consider suppliers that use materials and production processes that are sustainable and environmentally benign. Part of this consideration includes choosing local suppliers that use materials from Oregon. Durability and ease of maintenance of the furnishings are equally important.



URBAN / GREENWAY BENCH

Manufacturer: Landscape Forms

Model: The Plainwell Series

Material: Sustainably harvested 'Ipe' wood, certified by the Forestry Stewardship Council

Finish: No finish required for wood. Staining not recommended.

Metal is painted Black, powdercoated.

Size: 72" or 96" Length



NEIGHBORHOOD PARKS BENCH

Manufacturer: Gardenside, Ltd.

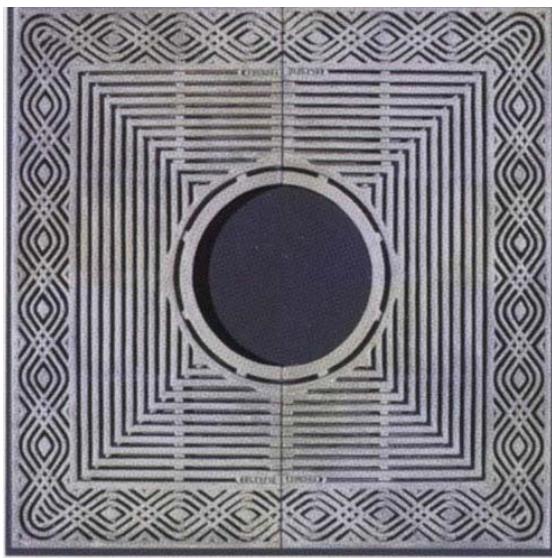
Model: #2602 Provence Bench

Material: Sustained-Yield Teak

Finish: No finish

Size: 71" Length, 35^{1/2}" Height, 20" Depth

Substitution requests must be approved by the Master Planner.



TREE GRATE

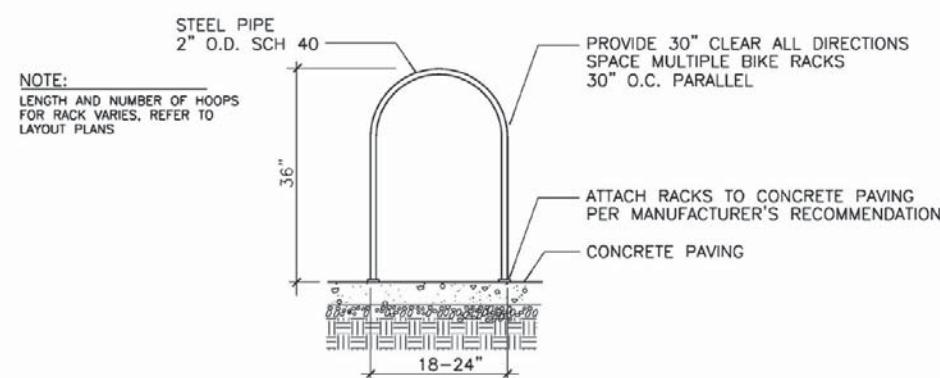
Manufacturer: Olympic Foundry

Model: CNK Series 48

Material: Cast Iron

Finish: None

Size: 4' Square; 2 sections. 16" Tree hole diameter



BICYCLE RACK

Manufacturer: Function First Bike Security

Model: The Bike Rib

Material: Steel Pipe

Finish: Powdercoat Paint, Black only

Size: 1.25" Schedule 40 Steel Pipe; 18" W/32" H

Can be grouped as 2, 3 or 4 ribs, up to 90" long.



TRASH/RECYCLING RECEPTACLE

Manufacturer: Landscape Forms

Model: Plainwell Litter Receptacle

Material: Steel, or sustainably harvested 'Ipe' wood, certified by Forestry Stewardship Council

Finish: No finish required for wood. Staining not recommended. Metal is painted Black and powdercoated.

Sizes: 30" Diameter 38" Height; 35 gallon capacity.

DRINKING FOUNTAIN

Manufacturer: Murdock

Model: MC-76-2

Material: Iron Pedestal / Brass Bowls

Finish: Oil Based Paint, Black

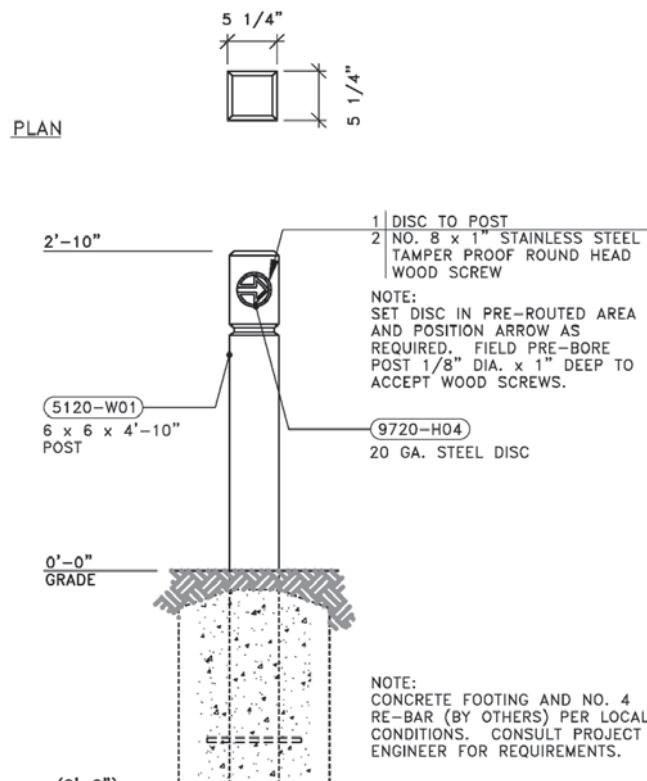


Orenco Station

Substitution requests must be approved by the Master Planner.



Villebois



PARKS AND PATH WAYFINDING BOLLARD

Manufacturer: Timberform

Model: Timber Bollard with directional arrow, 2553-3

Material: Seasoned Douglas Fir

Finish: Clear preservative

Sizes: 6" x 6" Square timber, 2'-10" height.

URBAN BOLLARD

Manufacturer: Visco

Model: VI-BO-14; VI-BO-14/30

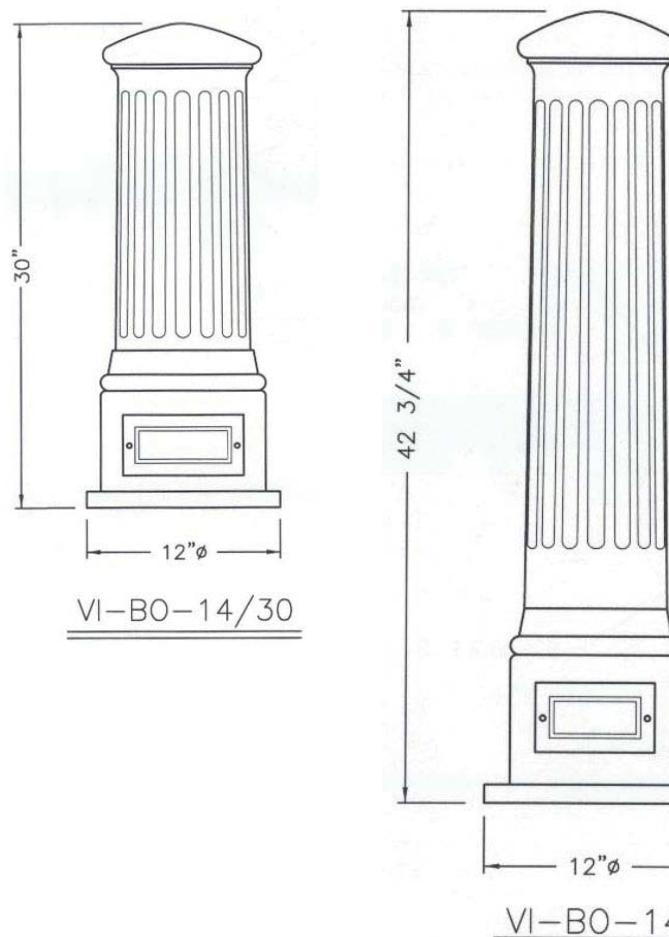
Material: Steel or cast-iron

Finish: Powder Coated, Painted Black

Sizes: 30" or 42 ^{3/4}" Tall;
Base 12" Diameter



Bollards at
Orenco Station



PICNIC TABLE

Manufacturer: Timberform

Model: Arbor Picnic Table with Seats, Model 2242-6

Material: Seasoned Douglas Fir

Finish: Clear Preservative

Sizes: Length: 5'-10" or 7'-10"; Width: 5'-7"; Height 2'-6"

Substitution requests must be approved by the Master Planner.



Villebois



PLAY STRUCTURES

Playgrounds and play structures are an integral part of community parks. A playground should be a social place for children as well as for parents. The above photos show a typical play structure that meets the general design intent for Villebois. Actual Villebois playground sizes and locations will be determined in the individual Specific Area Plans.

The design of the play areas should have a balance of activities and diversity to challenge children of all ages. There should be multiple structures and linkages to encourage movement and promote exploration. There should also be interactive equipment such as swings which are enjoyed by adults as well as children. Above all, it is important for the play areas to be safe as well as accessible to children with disabilities.

There is no specific manufacturer recommended, but the play structures chosen should meet the following technical requirements:

- Must comply to ASTM F- 1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use.
- Must be IPEMA-certified: IPEMA is a non-profit organization that tests play equipment confirming manufacturers conformance to ASTM F - 1487.

- Hardware must be stainless steel with lifetime warranty.
- Structure materials must be monochromatic with earthtone colors matching other site furnishings, preferably dark green. Primary colors are not acceptable.
- Safety surface material is required for all areas within the fall zone of the play structures. Acceptable surface material is IPEMA certified Engineered Wood Fiber to a minimum depth ten inches (10").
- Platforms - minimum 8" and maximum 72" in height for youth play areas
- Platforms - minimum 8" and maximum 48" in height for tot play areas
- Transitional platforms or ramps meeting ADA requirements in areas for children with disabilities
- Various ground-level activities



GOAL

To preserve existing trees where they will be an amenity for the community and integral to a diverse, sustainable and well-connected Village.

POLICIES

1. Existing trees six inches DBH or more shall be preserved when healthy and compatible with the project design. Native species of trees and trees with historical importance shall be given special consideration for retention.
2. Open space areas shall be organized to incorporate existing trees where feasible.
3. Existing treed streets shall be incorporated into the design and the trees preserved to the extent feasible.
4. The alignment of public streets and private lanes shall consider preservation of existing trees. Alternate street sections shall be pursued as needed to preserve trees that are integral to the design of the Village, and shall require City Engineer approval.
5. Lot lines shall be organized to locate trees along lot lines and non-typical shaped lots shall be used where feasible to preserve trees that would provide an amenity to the community and not compromise the design of an urban village.

IMPLEMENTATION MEASURES

1. A Tree Preservation Plan, which meets the requirements of the City of Wilsonville Ordinance 464 Tree Preservation and Protection, shall be prepared with each Specific Area Plan that classifies to aid in determining whether the tree is desirable to preserve and is capable of survival. Tree classification shall be conducted by a duly licensed and certified arborist and shall include the following:
 - Health, structure and vigor of tree;
 - Age and/or DBH;
 - Species rating per ISA standards for the Pacific NW Region;
 - Strong or weak wooded;
 - Compatibility with development and ability to withstand impacts;
 - Free-standing well formed tree or within intact groupings;
 - Mature form and size, level of visual interest, and aesthetic contribution;
 - Historical importance.

The Arborist report shall take into account the following categories:

"IMPORTANT" CLASSIFICATION IS COMPRISED OF:

Trees that rated high in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;
- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;
- Mature form and size, level of visual interest, and aesthetic contribution;
- or are classified as "good" but have historical importance.

"GOOD" CLASSIFICATION IS COMPRISED OF:

Trees that rated high in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;

Trees that rated adequate in the following categories:

- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;
- Mature form and size, level of visual interest, and aesthetic contribution;

"MODERATE" CLASSIFICATION IS COMPRISED OF:

Trees that rated adequate in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;
- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;

Mature form and size, level of visual interest, and aesthetic contribution;

"POOR" CLASSIFICATION IS COMPRISED OF:

- Trees in poor health and/or when substantially damaged;
- Trees found to be potentially hazardous based on species history or present condition.

2. For trees that are to be preserved, the existing grade and drainage pattern within the drip line shall be maintained to the extent feasible and the impact to the tree root system shall be minimized to the extent feasible,

3. A Tree Protection Plan shall be prepared by a duly licensed and certified arborist with each Preliminary Development Plan addressing protection of trees prior to construction, during construction, and post-construction. Pre-construction measures to protect trees shall include, but are not limited to fencing, activities prohibited within drip line, and removal of adjacent trees. Tree protection measures during construction shall include, but are not limited to, fencing and identification of conditions that would require presence of arborist on site. Tree protection measures after construction may include but are not limited to, tree conservation easements on private property, open space/park dedication, etc. Tree work described in the Tree Protection Plan shall be done to National Standards Institute (ANSI 300) specifications under supervision of a duly licensed and certified arborist. Monitoring inspections shall occur as specified in the Tree Protection Plan.



VILLEBOIS PLANT LIST

The following list of trees, shrubs and other plants is provided as the basis for selection of plants for Villebois parks and open spaces, public urban spaces, residential pocket parks and housing sites. Substitutions to this plant list must be approved by the Villebois master planner.

NON-NATIVE PLANTS

TREES

Abies concolor var. — White Fir varieties
Abies lasiocarpa — Rocky Mountain Fir
Acer buergerianum — Trident Maple
Acer campestre — Hedge Maple
Acer davidii — David Maple
Acer x freemanii 'Marmo' — Marmo Maple
Acer ginnala — Amur Maple
Acer grandidentatum 'Schmidt' — Rocky Mtn Glow Maple
Acer griseum — Paperback Maple
Acer henryi — Henry Maple
Acer japonicum (straight species) — Fullmoon Maple
Acer nigrum 'Greencolumn' — Greencolumn Maple
Acer palmatum var. — Japanese Maple
Acer pseudoplatanus — Sycamore Maple
Acer rubrum — Red Maple varieties
Acer saccharum var. — Sugar Maple varieties
Acer x freemanii — Autumn Maple varieties
Acer x truncatum x platanoides 'Warrenred' — Pacific Sunset Maple or Norwegian Sunset Maple
Betula nigra — River Birch
Calocedrus decurrens — Incense Cedar
Carpinus betulus 'Fastigiata' — Pyramidal European Hornbeam
Cedrus deodara — Deodar Cedar
Cercidiphyllum japonicum — Katsura Tree
Cercis chinensis — Chinese Redbud
Chamaecyparis lawsoniana — Chamaecyparis varieties
Cladrastis lutea — Yellow Wood
Clerodendrum trichotomum — Harlequin Glorybower
Cornus kousa chinensis — Chinese Kousa Dogwood
Crataegus phaenopyrum 'Washington Lustre' — Washington Hawthorn

Crataegus x lavallei — Lavalle Hawthorn
Cryptomeria japonica var. — Japanese Cryptomeria varieties
Cupressocyparis leylandii — Leland Cypress
Cupressocyparis leylandii 'Naylor's Blue' — Naylor's Blue Leland Cypress
Davidia involucrata — Dove Tree
Disanthus cercidifolius — Disanthus
Fagus sylvatica — Copper Beech varieties
Fraxinus pennsylvanica — Ash varieties
Ginkgo biloba var. — Ginkgo varieties
Gleditsia triacanthos — Honey Locust varieties
Gymnocladus dioica — Kentucky Coffee Tree
Halesia carolina — Silver Bell
Juniperus scopulorum 'Skyrocket' — Skyrocket Juniper
Koelreuteria paniculata — Goldenrain Tree
Laburnum anagyroides — Goldenchain Tree
Lagerstroemia indica 'Natchez' — Natchez Crepe Myrtle
Larix decidua — European Larch
Liriodendron tulipifera — Tulip Tree
Magnolia stellata 'Royal Star' — Royal Star Magnolia
Magnolia x soulangiana — Saucer Magnolia
Magnolia virginiana — Sweetbay Magnolia
Malus 'Golden Raindrops' — Golden Raindrops Crabapple
Malus 'Snowdrift' — Snowdrift Crabapple
Metasequoia glyptostroboides — Dawn Redwood
Nyssa sylvatica — Sour Gum
Ostrya virginiana — American Hophornbeam
Oxydendron arboreum — Sourwood
Parrotia persica — Persian Parrotia
Pinus monticola — Western White Pine
Pinus strobus fastigiata — Columnar Eastern White Pine
Platanus x acerifolia 'Bloodgood' — London Plane Tree
Prunus x blireiana — Blireiana Plum
Prunus serrulata 'Shirofugen' — Shirofugen Cherry
Pyrus calleryana 'Capital' — Capital Callery Pear
Pyrus calleryana 'Chanticleer' or 'Glen's Form' — Chanticleer or Glen's Form Callery Pear
Pyrus calleryana 'Redspire' — Redspire Callery Pear
Quercus phellos — Willow Oak
Quercus robur — English Oak

Quercus rubra — Red Oak
Sassafras albidum — Sassafras
Sequoiadendron giganteum — Giant Sequoia
Sequoia sempervirens — Coast Redwood
Sophora japonica — Japanese Pagoda Tree
Sorbus aucuparia — European Mountain Ash
Stewartia koreana — Korean Stewartia
Stewartia monadelpha — Tall Stewartia
Stewartia pseudocamelia — Japanese Stewartia
Styrax japonica — Japanese Snowbell
Styrax obassia — Bigleaf Japanese Snowbell
Tilia americana 'Redmond' — Redmond American Linden
Tilia cordata var. — Little Leaf Linden varieties
Ulmus japonica x wilsoniana 'Morton' — Accolade Elm
Ulmus parvifolia 'Emerald Vase' — Emerald Vase Lacebark Elm
Zelkova serrata 'Halka' or 'Green Vase' — Halka or Green Vase Zelkova

SHRUBS

Abelia grandiflora 'Edward Goucher' — Edward Goucher Glossy Abelia
Abelia grandiflora 'Prostrata' — Prostrate White Abelia
Arbutus unedo 'Compacta' — Dwarf Strawberry Bush
Arctostaphylos 'John Dourley' — John Dourley Manzanita
Azalea species — Azalea
Berberis thunbergii — Japanese Barberry
Berberis thunbergii 'Crimson Pygmy' — Crimson Pygmy Japanese Barberry
Berberis thunbergii 'Kobold' — Kobold Barberry
Berberis verruculosa — Warty Barberry
Berberis x mentorensis — Mentor Barberry
Buddleia davidii 'Empire Blue' — Buddleia
Callicarpa bodinieri — Beautybush
Caryopteris clandonensis 'Arthur Simmon' — Arthur Simmon Blue Mist
Chaenomeles speciosa — Chinese Flowering Quince
Choisya ternata — Mexican Ternate Orange
Cistus purpureus — Purple Rock Rose

Cornus sericea 'Alleman's Compact' — Alleman's Compact Redtwig Dogwood
Cornus sericea 'Isanti' — Isanti Redtwig Dogwood
Cornus stolonifera 'Kelseyii' — Kelsey Dogwood
Corylopsis spicata — Spike Winter Hazel
Cotoneaster horizontalis — Rock Cotoneaster
Cotoneaster lacteus — Parney Cotoneaster
Daphne burkwoodii — Burkwood Daphne
Daphne burkwoodii 'Carol Mackie' — Carol Mackie Burkwood Daphne
Daphne odora — Winter Daphne
Deutzia gracilis 'Nikko' — Nikko Slender Deutzia
Deutzia x rosea — Deutzia Hybrid
Elaeagnus pungens 'Fruitlandii' — Silverberry
Enkianthus perulatus — Enkianthus
Escallonia 'Compacta' — Compact Escallonia
Escallonia 'Newport Dwarf' — Newport Dwarf Escallonia
Euonymus alata 'Compacta' — Dwarf Burning Bush
Euonymus japonica 'Silver Princess' — Silver Princess Euonymus
Euonymus japonicus 'Silver Queen' — Silver Queen Euonymus
Euonymus microphylla — Box Leaf Euonymus
Exochorda macrantha 'The Bride' — Pearl Bush
Fatsia japonica — Japanese Aralia
Fothergilla gardenii 'Jane Platt' — Dwarf Fothergilla
Fothergilla monticola — Fothergilla
Hamamelis mollis 'Coombe Wood' — Witch Hazel
Hamamelis mollis 'Pallida' — Palida Witch Hazel
Hydrangea arborescens 'Annabelle' — Annabelle Hydrangea
Hydrangea macrophylla 'Nikko Blue' — Nikko Blue Hydrangea
Hydrangea macrophylla 'Lemon Wave' — Lemon Wave Hydrangea
Hydrangea quercifolia — Oak Leaf Hydrangea
Hydrangea serrata 'Blue Billow' — Blue Billow Lacecap Hydrangea
Hydrangea serrata 'Bluebird' — Blue & Pink Lacecap Hydrangea



Hypericum androsaemum 'Albury's Purple' — Albury's Purple St. John's Wort
Hypericum androsaemum 'Hidcote' — Hidcote Shrub Hypericum
Hypericum 'Rowallane' — Rowallane Shrub Hypericum
Ilex crenata 'Compacta' — Compact Japanese Holly
Ilex crenata 'Convexa' — Convex Leaf Japanese Holly
Ilex crenata 'Green Island' — Green Island Japanese Holly
Ilex crenata 'Helleri' — Helleri Japanese Holly
Ilex crenata 'Hetzii' — Hetzii Japanese Holly
Itea virginica 'Henry's Garnet' — Henry's Garnet Sweetspire
Itea virginica 'Little Henry's' — Little Henry's Sweetspire
Jasminum nudiflorum — Winter Jasmine
Juniperus chinensis — Chinese Juniper
Kalmia latifolia — Mountain Laurel
Kalmia latifolia 'Elf' — Elf Mountain Laurel
Leucothoe fontanesiana — Drooping Leucothoe
Ligustrum 'Lodense' — Lodense Privet
Ligustrum 'Suwanee River' — Suwanee River Privet
Lonicera nitida — Box Honeysuckle
Lonicera nitida 'Red Tip' — Red Tip Box Honeysuckle
Lonicera pileata — Privet Honeysuckle
Loropetalum chinensis 'Burgandy' — Chinese Loropetalum
Nandina domestica 'Harbor Dwarf' — Harbor Dwarf Heavenly Bamboo
Osmanthus delavayi — Delavay Osmanthus
Pernettya mucronata — Gaultheria mucronata
Philadelphus coronarius — Sweet Mock Orange
Philadelphus x virginalis 'Dwarf Minnesota Snowflake' — Dwarf Minnesota Snowflake Mock Orange
Pieris 'Forest Flame' — Forest Flame Pieris
Pieris fromosa var forestii 'Wakehurst' — Wakehurst Pieris
Pieris japonica 'Blush' — Blush Pieris
Pieris japonica 'Spring Snow' — Spring Snow Pieris
Polystichum setiferum — Alaska Fern
Potentilla fruticosa 'Klondike' — Klondike Bush Cinquefoil
Potentilla fruticosa 'Day Dawn' — Daydawn Bush Cinquefoil

Prunus laurocerasus 'Otto Luyken' — Otto Luyken Laurel
Rhododendron species — Rhododendron
Rosa bonica — Bonica Rose
Rosa 'de L'Hay' — de L'Hay Rose
Rosa 'Red Meidiland' — Red Meidiland Rose
Rosa rugosa var. — Rugosa Rose varieties
Rosa 'Scarlet Meidiland' — Scarlet Meidiland Rose
Rosa 'Snow on Heather' — Snow on Heather Rose
Rosa 'White Meidiland' — White Meidiland Rose
Rosmarinus officinalis 'Tuscan Blue' — Tuscan Blue Rosemary
Salix purpurea 'Nana' — Dwarf Purple Osier Willow
Salix repens argentea — Silver Creeping Willow
Sambucus racemosa 'Plumosa Aurea' — Golden Elderberry
Sarcococca hookerana 'Humilis' — Sweet Box - Himalayan Sarcococca
Sarcococca ruscifolia — Fragrant Sarcococca
Spiraea bumalda 'Anthony Waterer' — Anthony Waterer Spirea
Spiraea japonica 'Shirobana' — Shirobana Spirea
Spiraea nipponica 'Snowmound' — Snowmound Japanese Spiraea
Spiraea prunifolia 'Plena' — Bridal Wreath Spiraea
Spiraea thunbergii — Thunberg Spirea
Spiraea thunbergii 'Compacta' — Compact Japanese Spirea
Spiraea x bumalda 'Goldflame' — Goldflame Spiraea
Spiraea x vanhouttei — Vanhoutte Spirea
Syringa microphylla 'Superba' — Little Leaf Lilac
Taxus baccata 'Repandens' — English Yew
Taxus x media 'Hicksii' — Hicks Yew
Viburnum carlesii 'Compactum' — Compact Korean Spice Viburnum
Viburnum carlesii 'Nana' — Nana Korean Spice Viburnum
Viburnum davidii — David Viburnum
Viburnum opulus 'Compactum' — Compact European Cranberry Bush
Viburnum opulus 'Nanum' — Dwarf European Cranberry Bush
Viburnum plicatum tomentosum 'Mariesii' — Mariesii Doublefile Viburnum

Viburnum plicatum var. tomentosum — Doublefile Viburnum
Viburnum tinus 'Spring Bouquet' — Spring Bouquet Laurustinus
Viburnum trilobum — Cranberry Bush
Viburnum x bodnantense — Bodnant Viburnum
Viburnum x burkwoodii — Burkwood Viburnum
Viburnum x rhytidophyllum 'Alleghany' — Alleghany Viburnum
Weigela florida var. — Variegated Weigela varieties

GROUNDCOVERS, VINES, PERENNIALS, GRASSES, BULBS

Ajuga reptans 'Catlin's Giant' — Catlin's Giant Carpet Bugle
Alchemilla mollis — Lady's Mantle
Aubrieta deltoidea 'Rockey's Purple' — Rockey's Purple False Rock-Cress
Bergenia 'Silberlicht' — Heart Leaf Bergenia
Calamagrostis x acutiflora 'Overdam' — Variegated Feather Reed Grass
Calamagrostis x acutiflora 'Karl Foerster' — Foerster's Feather Reed Grass
Calluna vulgaris — Scottish Heather
Carex buchananii — Leather Leaf Sedge
Carex deweyana — Dewey Sedge
Carex 'Frosted Curis' — Frosted Curis Sedge
Carex morrowii 'Variegata' — Variegated Japanese Sedge
Carex morrowii 'Ice Dance' — Ice Dance Sedge
Carex morrowii 'Evergold' — Evergold Sedge
Carex obnupta — Slough Sedge
Carex pendula — Weeping Sedge
Clematis florida 'Alba Piena' — Alba Piena Clematis
Clematis viticella 'Etoile Violette' — Etoile Violette Clematis
Cotoneaster dammeri 'Canadian Creeper' — Canadian Creeper Cotoneaster
Crocus — Crocus
Daboecia cantabrica — Irish Heath
Deschampsia caespitosa — Tufted Hair Grass

Erica species — Heath
Euonymus x fortunei var. — Wintercreeper varieties
*Euphorbia characias ssp. *Wulfenii** — Wall Spurge
Euphorbia robbiae — Robb's Spurge
Fragaria chiloensis — Coast Strawberry
Gaultheria procumbens — Wintergreen
Geranium x cantabrigiense 'Biokovo' — True Geranium
Geranium x cantabrigiense 'Cambridge Blue' — Cambridge Blue Geranium
Geranium dalmaticum — Dalmatian Cranesbill
Geranium 'Johnson's Blue' — Johnson's Blue Geranium
Geranium macrorrhizum — Cranesbill Geranium
Hakonechloa macra 'Areola' — Japanese Forest Grass
Helianthemum 'Annabel' — Annabel Sun Rose
Helictotrichon sempervirens — Blue Oat Grass
Helleborus orientalis — Lenten Rose
Hemerocallis 'Crazy Lace' — Crazy Lace Daylily
Hemerocallis 'Catherine Woodbury' — Woodbury Daylily
Hemerocallis 'Stella d'Oro' — Stella d'Oro Daylily
Hypericum calycinum — Hypericum
Iberis sempervirens 'Snowflake' — Snowflake Candytuft
Iris — Iris
Juncus effusus — Soft Rush
Juniperus conferta 'Blue Pacific' — Blue Pacific Juniper
Juniperus conferta 'Silver Mist' — Silver Mist Juniper
Lavandula angustifolia var. — English Lavender varieties
Liriope var. — Liriope varieties
Lithodora diffusa 'Grace Ward' — Grace Ward Lithodora
Menthe corsica — Corsican Mint
Miscanthus sinensis 'Variegatus' — Variegated Japanese Silver Grass
Miscanthus sinensis 'Yaku Jima' — Yaku Jima Japanese Silver Grass
Narcissus — Daffodil
Pachysandra terminalis — Pachysandra
Panicum virgatum 'Haense Herms' — Red Switch Grass
Panicum virgatum 'Rotestrahibusch' — Glowing Red Switch Grass



Parthenocissus quinquefolia — Virginia Creeper
Parthenocissus tricuspidata — Boston Ivy
Pennisetum alopecuroides — Fountain Grass
Pennisetum alopecuroides 'Hameln' — Dwarf Fountain Grass
Pennisetum alopecuroides 'Moudry' — Black Seeded Fountain Grass
Polystichum setiferum — Alaska Fern
Rubus calycinoides — Bramble
Santolina chamaecyparissus — Lavender Cotton
Salvia officinalis 'Alba Flora' — Alba Flora Sage
Salvia officinalis 'Icterina' — Golden Variegated Sage
Stachys byzantina 'Silver Carpet' — Silver Carpet Lambs Ear
Teucrium chamaedrys — Wall Germander
Thymus citriodorus 'Aurea' — Gold Variegated Lemon Thyme
Tulipa — Tulip
Vaccinium vitis-idaea — Lingonberry
Vinca minor — Periwinkle

NATIVE PLANTS

TREES

Abies grandis — Grand Fir
Acer circinatum — Vine Maple
Acer macrophyllum — Bigleaf Maple
Alnus rubra — Red Alder
Amelanchier alnifolia — Western Serviceberry
Cornus nuttallii — Pacific Dogwood
Corylus cornuta — Western Hazelnut
Crataegus douglasii — Douglas Hawthorne
Fraxinus latifolia — Oregon Ash
Pinus ponderosa — Ponderosa Pine
Pseudotsuga menziesii — Douglas Fir
Quercus garryana — Oregon Oak
Sambucus racemosa — Red Elderberry
Sequoia giganteum — Giant Sequoia
Thuja plicata — Western Red Cedar
Tsuga heterophylla — Western Hemlock

SHRUBS

Berberis nervosa — Cascade Oregon Grape
Cornus stolonifera — Red Osier Dogwood
Gaultheria shallon — Salal
Holodiscus discolor — Ocean Spray
Lonicera involucrata — Black Twinberry
Mahonia aquifolium — Oregon Grape
Mahonia aquifolium 'Compacta' — Compact Oregon Grape
Mahonia repens — Creeping Mahonia
Oemleria cerasiformis — Indian Plum
Philadelphus lewisii — Mock Orange
Physocarpus capitatus — Pacific Ninebark
Rhododendron macrophyllum — Pacific Rhododendron
Ribes sanguineum — Red Flowering Currant
Rosa nutkana — Nootka Rose
Spirea douglasii — Douglas Spirea
Symphoricarpos albus — Common Strawberry
Taxus brevifolia — Pacific Yew
Vaccinium ovatum — Evergreen Huckleberry

GROUNDCOVER, FERNS, HERBS

Anenome oregonia — Oregon Windflower
Aquilegia formosa — Red Columbine
Arctostaphylos uva-ursi 'Vancouver Jade' — Vancouver Jade Kinnickinnick
Arctostaphylos uva-usi 'Emerald Carpet' — Kinnickinnick
Blechnum spicant — Deer Fern
Calypso bulbosa — Fairyslipper
Camassia quamash — Camas
Claytonia lanceolata — Western Spring Beauty
Corydalis scouleri — Western Corydalis
Cornus canadensis — Bunchberry
Delphinium bicolor — Montana Larkspur
Dicentra formosa — Wild Bleeding Heart
Dodecatheon pulchellum — Shooting Star
Eriophyllum lanatum — Oregon Sunshine
Erythronium oregonum — Fawn Lily
Fragaria virginia var. platypetala — Broad Petal Strawberry

Fritillaria lanceolata — Checker Lily
Helianthus annuus — Common Sunflower
Iris tenax — Oregon Iris
Linnaea borealis — Twin Flower
Lupinus sulphureus — Sulphur Lupine
Mimulus species — Monkey Flower
Oxalis oregana — Redwood Sorrel
Polystichum munitum — Western Swordfern
Pteridium aquilinum — Bracken Fern
Rhus spectabilis — Salmonberry
Rubus parviflorus — Thimbleberry
Smilacina racemosa — False Solomon Seal
Tellima grandiflora — Fringecup
Thalictrum occidentale — Western Meadowrue
Tiarella trifoliata — Foam Flower
Trillium ovatum — Western Trillium
Vancouveria hexandra — Inside Out Flower
Viola glabella — Stream Violet

BIOSWALE PLANTINGS

GROUND LAYER
Alisma plantago-aquatica — Water Plantain
Beckmannia syzigachne — American Sloughgrass
Bromus carinatus — California Bromegrass
Camassia quamash — Common Camas
Carex obnupta — Slough Sedge
Deschampsia caespitosa — Tufted Hairgrass
Eleocharis ovata — Ovate Spike Rush
Eleocharis palustris — Common Spike Rush
Elymus glaucus — Blue Wildrye
Festuca rubra v. rubra — Native Red Fescue
Iris tenax — Oregon Iris
Juncus effusus — Soft Rush
Juncus ensifolius — Dagger Leaf Rush
Lysichiton americanum — Skunk Cabbage
Regreen — Wheat Cover Crop
Sagittaria latifolia — Wapato Duck Potato

Scirpus acutus — Hardstem Bulrush
Scirpus microcarpus — Small Fruited Bullrush

UNDERSTORY

Spiraea douglasii — Douglas Spirea

SHRUB / PLANT COMMUNITY

GROUND LAYER

Deschampia caespitosa — Tufted Hairgrass
Festuca rubra v. rubra — Native Red Fescue

UNDERSTORY

Cornus stolonifera — Redtwig Dogwood
Rosa nutkana — Nootka Rose
Salix lasiandra — Pacific Willow
Salix piperi — Piper Willow
Salix scouleriana — Scouler's Willow
Salix sitchensis — Sitka Willow
Spiraea douglasii — Douglas Spirea

PROHIBITED PLANT SPECIES

Cirsium arvense — Canadian Thistle
Convolvulus spp. — Morning Glory
Cytisus scoparius — Scotch Broom
Dipsacus sylvestris — Common Teasel
Festuca arundinaceae — Tall Fescue
Hedera helix — English Ivy
Holcus canatus — Velvet Grass
Lolium spp. — Rye Grasses
Lotus corniculatus — Bird's Foot Trefoil
Lythrum salicaria — Purple Loose Strife
Melilotus spp. — Sweet Clover
Myriophyllum spicatum — Eurasian Milfoil
Phalaris arundinaceae — Reed Canary Grass
Rubus discolor — Himalayan Blackberry
Solanum spp. — Nightshade
Trifolium spp. — Clovers

