



ATTACHMENT B:

B1: VTA PLANTING GUIDELINES

PLANT PALETTE RECOMMENDATIONS FOR SANTA CLARA VALLEY TRANSPORTATION AUTHORITY PROJECTS

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INTRODUCTION

To assist in the design and development of Transit Oriented Development projects at Valley Transportation Authority (VTA), Landscape Architects at RELM collaborated with VTA to develop this landscape planting guide in line with the recommendations outlined in the VTA's Green Building and Sustainable Landscape Policy. This document is intended to serve as a 'quick-start' guide for selecting plants that work well with the majority of landscape typologies utilized in TOD projects in the San Jose Area. Included in this recommendation, is a list of drought-tolerant tree and understory species that can be incorporated into TOD planting designs to create ecologically functional landscapes that will shape the new urban centers TOD projects engender.

This document includes a pre-approved list of plant species to select from that meet the intent of the VTA Green Building and Sustainable Landscape Policy Standards. This list is not comprehensive and additional species may be brought to VTA for approval.

This document acts as a plant-focused supplement to the lengthier VTA Sustainable Landscape Policy, the VTA Landscaping and Stormwater Design Criteria Manual, and (where applicable for City/County stormwater facilities) the Santa Clara Valley Urban Runoff Pollution Prevention (SCVURPP) Design Criteria Guidelines. The full documents are referenced frequently during the design process for all TOD projects. The primary goals of these documents as they relate to landscape planting are reiterated here for quick reference.

1. Conserve Water Resources
 - Use low water-use, drought-tolerant, climate-adapted plants
 - Plant low maintenance, drought tolerant or native plant species
2. Reduce or Prevent Pollution
 - Plant low maintenance plants that require minimal fertilizers, pesticides and herbicides.
 - Refer to the Santa Clara Valley Urban Runoff Pollution Prevention Program's Planting Guidance for Landscape-Based Stormwater Measures, C.3 Storm water Handbook, Appendix D, for plants appropriate for various biofiltration methods.
3. Improve Wildlife Habitat and Biodiversity
 - Select plants native to California that provide habitat and food for birds, insects, and other wildlife;
 - Under no circumstances shall any plants listed as invasive by the California Invasive Plant Council's Invasive Plant Inventory be used for landscaping.

SPECIES SELECTION SUMMARY

TREES

Growing healthy, enduring trees in urban environments is inherently difficult, and current climatic fluctuations are exacerbating the challenges. Fortunately, there are many organizations researching and publishing on the topic with a selection listed below.

- CANOPY (<https://canopy.org/>)
- San Francisco Estuary Institute (<https://www.sfei.org>)
- Urban Forest Ecosystems Institute: Cal Poly (<https://selectree.calpoly.edu/>)
- Our City Forest (www.ourcityforest.org)
- Stanford University - Tree List of Campus Trees (<http://trees.stanford.edu/>)
- City of San Jose Community Forest Management Plan. (<https://sanjosecfmp.com>)

A review of recent work coming out of these municipal, non-profit and academic organizations demonstrates consensus on the importance of species diversity in maintaining a healthy urban forest. In general, the ideal distribution of any single tree species is recommended to be no more than 10% of the total tree quantity within a designated area. According to the recently published City of San Jose Tree Policy Manual, San Jose's current street tree make up includes four species that currently exceed the 10% capacity rule, namely Chinese Pistache (*Pistacia chinensis*), Crape Myrtle (*Lagerstroemia* spp.), London Plane (*Platanus acerifolia*) and Western Sycamores (*Platanus racemosa*). These species are no longer approved for new plantings within San Jose city limits. These four species are included on the VTA species list due to the occasional need to match existing street tree species, but are not recommended for new plantings.

Another critical criteria for tree selection is the estimated water use of a given species. In general, trees selected for the VTA approved list are in the low water use WUCOLS category for the San Jose area. However, select moderate water use trees which are deemed climate appropriate when used in the correct location (i.e. bioswale or riparian) are included given the variety of microclimates encompassed by VTA TOD project sites. These plants may be included in TOD sites provided that the total calculated water use demonstrates the project site will still be in compliance with the Maximum Applied Water Allowance (MAWA) per Cal Green.

UNDERSTORY

Understory species listed here are all climate appropriate for the South San Francisco Bay Area. The vast majority are low-water use, with some moderate water use species included for select appropriate micro-climates (shaded north-facing facades, riparian waterways, etc.) with minimal use.

The use of native plants is encouraged as native plants support native wildlife, however, select adapted and well-suited plants from other Mediterranean areas are included on this list. Native plants are an important component and provide habitat value to a variety of native insects, however urban sites occasionally benefit from natives intermixed with hearty, non-native plants that may originate from similar climates such as Australia or the desert southwest and may be very appropriate to the Bay Area as the summers get hotter. In general, TOD plant palettes should strive to be a minimum of 70% native species.

A diverse list of plants is offered most of which are on the Santa Clara Valley Water District list for lawn-replacement plants and meet MWELo Cal Green Requirements. Many plants overlap with those listed in Appendix D of SCVURPPP's C.3 Stormwater Handbook. Given that VTA land traverses multiple municipalities, plants on this list should be cross-checked with current local municipal tree and landscape guidelines as well as local soil conditions, micro-climates and adjacencies.

Species are characterized by plant type, as listed below which, in nature work together to create habitats that are structurally rich. Where possible, multiple plant types should be used together to create layered plantings to maximize habitat value. Upon project completion, natural plant maintenance training is recommended for contracted maintenance companies to achieve lasting aesthetic and ecological functionality.

The majority of species listed are readily available in the nursery industry, especially some of the many native plant nurseries in the Bay Area. The list is also available in Excel and intended to be sortable based on needs of a given TOD project. The list is not exhaustive and additional plants may be proposed and approved by VTA.

SITE SPECIFIC CONDITIONS: SOILS, HYDROLOGY

The Santa Clara Valley has soil and hydrologic conditions that vary greatly depending on location. Low lying areas near the Bay are predominately clay soils that are inherently difficult to drain. In these areas, planting soil for TOD landscapes should be amended and supplemental drainage added. Other areas, such as those along drainage ways, are underlain with fast draining alluvium soils suitable to a variety of native species. Much of San Jose is subject to intermittent flooding and select TOD sites will be located atop a very high ground-water table, similar to the Berryessa Bart Station location. Other areas within the South Bay are underlain with sandy loam soil that supported farms and orchards for much of the last century. Plants should be tailored to soil type and drainage patterns of specific to each TOD location.

IRRIGATION TYPE / WATER SOURCE

A factor that must be considered when planting in the urban South Bay is the use of recycled water for irrigation. Although water quality will vary depending on water provider, in general, recycled water is higher in salts and other dissolved particulates that can negatively impact plant establishment and long term health. It is recommended that landscape designers review a water quality report from the water provider to obtain salinity levels of recycled water available for irrigation prior to plant selection.

Irrigation quantity, frequency and method of application can be tailored to render the best possible soil conditions using the available water. In general, plants are more susceptible to salt damage from direct contact (spray) than when applied to soil and roots (drip). Salt tolerance, when known, is listed in the plant lists and salt-tolerant species should be favored for sites irrigated with recycled water. References for further study are included in the Reference section.

TOD LANDSCAPE TYPOLOGIES

Although the specific planning and development goals for each TOD project will vary, as will the site conditions, there is a common set of landscape elements that will typically combine in various forms to create the TOD landscape. Working together, RELM and VTA defined nine landscape typologies common to the public spaces of TOD projects. Private courtyards and roof terraces were purposely excluded from this document as they do not comprise the public space of TODs. Descriptions of each typology are found on the following pages. Approved plants are tagged with the typologies for which they are appropriate. Most plants can be applied to more than one typology.

- Major Streets (4+ lanes of traffic)
- Minor Streets (2+ lanes of traffic)
- Paseo (pedestrian)
- Plaza
- Passive green space
- Surface parking lots
- Biofiltration and Bioswales
- Riparian
- Landscape Buffers and Slopes

MAJOR STREETScape (4+ lanes vehicular traffic)

Many TOD sites will include major vehicular streets, those with four or more lanes of traffic. These streets should be designed to encompass elements that yield 'Complete Streets' prioritizing pedestrian, bicycle and public transportation modes. Street trees on larger streets serve to separate pedestrian and vehicular zones, provide shade and encourage walk-ability. Trees should be coordinated with other streetscape features such as street lights, trash and recycling receptacles, signage, bicycle parking and outdoor seating, among others. Existing street trees and/or municipal street tree plans should be consulted for each TOD site and, where possible, followed within the TOD landscape plans.

Street trees on major streets need to be of large enough stature when mature to allow for transit flow beneath them (bus, light rail), typically 15'-20' high. Adequate soil rooting volume is critical for long term health and viability of street trees. Minimum tree-pit openings should be 5' wide x 12'-18' long. Continuous parkways between the pedestrian sidewalk and vehicular street are preferred, with breaks as needed for pedestrian crossings. Recommended spacing between trees is 25'-30' on center. Understory plantings should be included where possible and planted with relatively uniform species distribution.

Characteristics of Major Streetscape Trees:

- Central Leader
- High Branching, 8' min. clear over sidewalk at install, growing to 15'-20' clear
- Strong wooded and good structure with minimal ongoing pruning required
- Contained root system, minimal pavement uplift
- Disease and pest resistant
- Minimal fruit litter

Characteristics of Major Streetscape Understory Plantings:

- Height between 18" - 24" tall to maintain visibility between street and sidewalk.
- Evergreen dominated plant mix with scattered perennials if desired for color
- Low maintenance



High branched, limbed up trees



Trees and understory combined



Kennedy Plaza, DG with street trees

MINOR STREETScape (1-2 lanes vehicular traffic)

The smaller streets within TOD sites allow for more equal distribution of pedestrian / active transport zone (bikes, scooters, e-bikes) and vehicular traffic zones. Streetscape planting should reflect this shift to the pedestrian scale by offering more variation and seasonal interest. Species selection can be more focused on the local site-design strategy rather than larger city-wide plans. Tree spacing can be reduced to every 20'-25' allowing for species of smaller mature stature to be planted in smaller planting areas. Traffic calming measures such as planted parkways and curb bulb-outs offer more room to insert diverse trees and plants. Understory planting should remain focused on visibility, maintenance and durability, but can begin to expand in species diversity with added hardy perennials.

Development sites require emergency vehicle access routes (EVAs) integrated within the new built fabric. These should be treated as minor streets in terms of planting and would serve primarily as pedestrian and active transit only routes. Trees and planting along these routes should be designed to provide sufficient room for maneuvering of large emergency vehicles and their required outriggers while also creating a comfortable pedestrian environment.

Characteristics of Minor Streetscape Trees:

- Central Leader or whorled branching structure trained to be upright
- High Branching, 8' min. clear over sidewalk, growing to 10-15' clear
- Strong wooded and good structure with minimal ongoing pruning required
- Contained root system, minimal pavement uplift
- Disease and pest resistant

Characteristics of Minor Streetscape Understory Plantings:

- Height between 18" - 24" tall to maintain visibility between street and sidewalk.
- Low maintenance



Smaller stature trees



Mixed understory planting



Continuous Parkway

PASEO

Paseos, or small streets without consistent vehicle traffic will interweave through new TOD sites, creating routes for pedestrian and active (bike, scooter, e-bike) transportation. These linear public open spaces should be planted in such a way to encourage walkability and outdoor social interactions with shade, seasonal interest and spaces for social interaction. The narrow configuration of these spaces creates shady, protected planting areas which can be planted with a diversity of native small trees and understory plants. Adequate rooting volume is required and construction details that allow for planting soil to be extended beneath pedestrian pavement should be explored.

Characteristics of Paseo Trees:

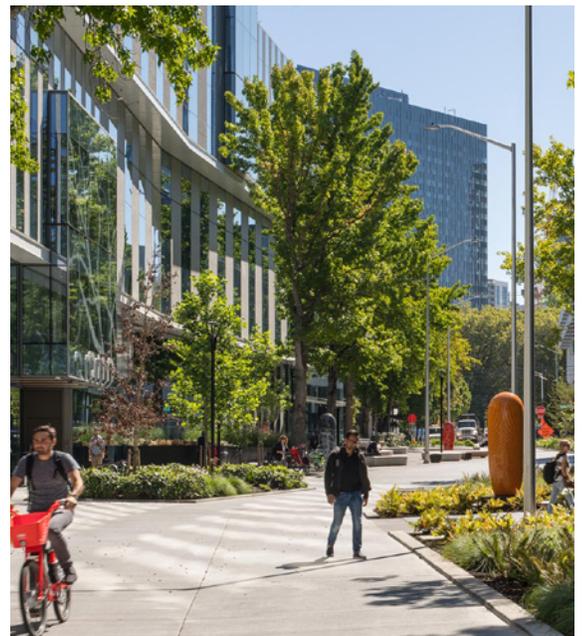
- Deciduous - seasonal color, allow winter light down to ground surface
- Narrow, Upright or Smaller Stature
- Strong structure (minimal risk of branch failure)
- Minimal pavement uplift

Characteristics of Paseo Understory Plantings:

- Height can vary depending on local adjacencies, taller narrow shrubs may work in some areas, more sculptural small trees can be planted where space allows.
- Combination of evergreen and flowering
- Low maintenance



Narrow, upright trees to allow emergency vehicle access



Mixed scale of trees and plantings

PLAZAS

TOD projects are inherently spaces where people come to gather in the public realm. Plazas at station entries, intersections and associated with retail development are a critical component of these new urban centers. Trees and plants play a significant role in these plazas, providing shade and serving as the 'ceiling' for these outdoor 'living rooms.' Plazas are dynamic spaces, at times hosting large civic and cultural events, food trucks and farmers markets and at other times being quiet spaces operating as 'outdoor living rooms' for the local residents and transit users. Tree planting must be able to support these diverse programmatic uses and soil should be designed in such a way that allows trees to thrive in a hardscape condition. Where possible, understory planting should be included, but should be durable and able to withstand foot traffic.

Characteristics of Plaza Trees:

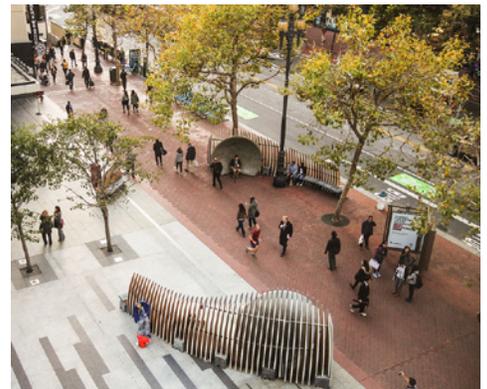
- Shade trees
- Single specimen trees if large plant bed is available
- Groves of central leader trees.... High Branching
- Small Groupings of smaller trees, multi-stem to create definition at edges
- Seasonal color / Deciduous

Characteristics of Plaza Understory Planting:

- Tolerant of foot traffic



Paved or Artificial Turf area with Trees



Tree Grates



Trees in large openings

PASSIVE GREEN SPACE

TOD sites will have a variety of passive green spaces which serve as interstitial space between and around buildings, plazas and parking areas. Trees in these areas can be wider and more low-branched than trees occupying spaces with pedestrians and traffic. These are areas that can support greater diversity within plant beds and support a variety of native species.

Select areas may be occupiable and planted with typical low-water use turf lawn or a natural lawn such as a no-mow fescue or sedge meadow. Non-occupiable plant beds shall be planted with a mix of flowering and evergreen species.

- Characteristics of Passive Green space Trees:
- Shade Trees
 - Smaller, understory trees, flowering accents
 - Upright trees for narrow spaces, tall hedge-like species

- Characteristics of Passive Green space Understory Plantings:
- Fescue or No-Mow lawn or native sedges meadow
 - Diverse blend of perennials, range of heights
 - Seasonal interest



Lawn, bioswale and plant bed cohesively planted



Multi-species planting



Diverse species, bloom times and structure

BIORETENTION AND BIOSWALES

Bioretention, bioswales and green infrastructure are a critical landscape component of all TOD projects in terms of managing stormwater pollution. To that end, VTA developed a detailed Stormwater and Landscaping Design Criteria Manual (DCM) that outlines various stormwater management strategies and the associated permit process, and is applicable not only to TOD projects but to all VTA sites. While the DCM includes a list of acceptable plants by VTA stormwater management type, this TOD focused document includes a selection of species applicable to all types of stormwater management and serves as a good starting point for TOD plant selection. Further detail can be found in the DCM.

Not all bioretention basins and bioswales can support trees, but where applicable trees should be included to provide additional habitat value. Note that both the trees and understory species in bioretention basins and bioswales should tolerate both wet and dry conditions. Also, in facilities where an underdrain is required, the roots of trees and large shrubs may grow into the slots of the underdrain pipe which can lead to increased maintenance and/or result in reduced performance of the basin which shortens the life of the bioretention facility. Thus, planting design in and these areas with an underdrain should be given careful consideration. Finally, in facilities with a liner, special care must be taken in the planting palette and design of the facility to accommodate plant health, and typically trees cannot be accommodated when a liner must be used.

Characteristics of Bioretention and Bioswale Trees:

- Tolerant of both inundated and dry conditions
- Minimal leaf litter which can prevent proper filtration capacity if not maintained

Characteristics of Bioretention and Bioswale Understory Plantings:

- Tolerant of both inundated and dry conditions
- Not too tall as to block irrigation heads



Berryessa Station Bioretention Basin



Sample Streetscape Bioswale



Milpitas Station Bioswale

SURFACE PARKING LOTS

Parking lots will be a component of many TOD projects and should be designed to have as much integrated planting as possible. Per current Cal Green Code, at least fifty percent of the parking area is required to be shaded within fifteen years after the establishment of the lot which can be provided by a combination of PV panel structures and trees. Thus, trees should be relatively fast growing but also long-lived and spreading. It is critical that parking lot trees are provided with the rooting volume of un-compacted soil to allow trees to thrive. Often, trees in small tree pits are seen in poor condition as early as 2-5 years after planting. Structural soil (CU Mix) is one option that can extend rooting area beneath the asphalt pavement surface with relatively minimal cost increase.

Bioretention basins and bioswales are often closely tied with the parking lots and available planting area will often have to serve two purposes - providing shade, habitat and stormwater management.

Characteristics of Parking Lot Trees:

- Upright
- Fast Growing or Mix of Fast and Moderate Growing
- Strong structure (minimal risk of branch failure)
- Many species will overlap with Bioretention and Bioswale Tree List

Characteristics of Parking Lot Understory Plantings:

- Evergreen and Flowering



Evergreen groundcover with trees



Bioswale with trees and minimal planting



Bioswale and Planting with Trees

RIPARIAN / NATURAL EDGES

In areas where a TOD Site is located adjacent to a designated Creek or Waterway, extreme care must be taken to follow planting guidelines prescribed by the Santa Clara Valley Water District in order to protect habitat, stream stability, water quality and flood protection.

In areas within a 50' min. buffer from Top of Bank, Santa Clara Valley Water District requires the use of locally native plants. These plants are to be propagated from seeds, cutting or divisions collected from lame local creek or watershed and grown according to criteria listed in Santa Clara County Water District – to prevent spread of Sudden Oak Death. Care should be taken to minimize impact to existing native vegetation along creeks.

In areas adjacent to Creeks and drainages but not directly within the buffer zone, local native species should be planted to maximize habitat value.

- Characteristics of Riparian Trees:
- Native
 - Habitat Value
 - Non-Invasive (including invasive natives)

- Characteristics of Riparian Understory Plantings:
- Native
 - Habitat Value
 - Non-Invasive (including invasive natives)



Naturally planted riparian habitat area



Grasses with leaf litter, natural design, no irrigation



Deer Grass in public park adjacent to creek



Alnus rhombifolia, only near creek

GRADE SEPARATION / SLOPES / LANDSCAPE BUFFERS

Perimeters of the development areas and any easements or landscape adjacent to public lands should have a native palette so they serve as habitat corridors and require minimal to no supplemental irrigation post establishment. Species diversity in both tree and groundcover layers is recommended to promote year-round flowers and fruits. One of the most common species on the slopes of the Santa Clara Valley is the California Buckeye, and this tree should be used when possible in these conditions.

For slopes greater than 3:1, biodegradable (not plastic-woven) erosion control netting is recommended and trees should be installed at a smaller box size (24" or 36" box). Installing smaller trees does require slightly more maintenance during the first 1-2 years post installation in order to have an arborist prune the trees as they mature to encourage healthy structure that will require less maintenance over time. Grasses and spreading groundcovers are recommended understory species with intermittent native shrubs to enhance woodland structure and habitat value.

Characteristics of Slope / Buffer Trees:

- Native, natural forms or multi-stem
- Habitat Value

Characteristics of Understory Slope / Buffer plantings:

- Fast-growing
- Spreads by Rhizomes or Deep roots of perennial grasses
- Low maintenance



Sedge or Grass slope



Mixed shrub planting for buffer area



Naturally planted slope, groundcovers and scattered native shrubs



Mixed shrub and perennial edge planter

TREE SPECIES PLANT LIST

The following plant list includes trees species recommended for use at TOD projects.

Basic species information is provided. Species have an X in the box for each Landscape Typology for which they are appropriate.

* Water Use Information provided by WUCOLS for San Jose, from https://ucanr.edu/sites/WUCOLS/Plant_Search/

VL = very low water use L=low water use, M=moderate water use (use sparingly, highlighted in blue), H=high water use (not recommended)

** Salt Tolerance Information as available from varied sources.

H = highly tolerant, M = moderately tolerant, will typically show minimal symptoms, L= not tolerant/ sensitive, will exhibit symptoms

*** Species not recommended for planting in City of San Jose. Do not use on TOD sites unless needed to match existing street trees.

California Native Species highlighted in yellow

| Latin Name | Common Name | Comments/ Notes | Decid / Evgrn / Flwr / Confr / Shrub-like | Mature Size H' X W' | WATER USE WUCOL San Jose* | Salt Tolerance for RCW (H,M,L)** | CA Native (Y/N) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|--|-----------------------------------|--|---|---------------------|---------------------------|----------------------------------|-----------------|------------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Acer buergerianum</i> | Trident Maple | Non, native but may be better at handling summer drought of bioswales | Decid | 25'-30' x 25'-30' | M | M | N | | | X | X | | | | | | X |
| <i>Acer macrophyllum</i> | Big Leaf Maple | Shade, consistent moisture, protected | Decid | 30-75' x 30-50' | M | M | Y | | | | | | X | | X | | X |
| <i>Acer negundo californicum</i> | California Box Elder | Fall color, may be slightly more drought tolerant than Acre macrophyllum | Decid | 20'-30' x 20'-30' | M | L | Y | | | | | | | | X | | X |
| <i>Aesculus californica</i> | Califronia Buckeye | Wildlife value, Summer Deciduous | Decid / Flwer | 20-30' x 15-30' | L | L /M | Y | | | | | | X | | X | X | |
| <i>Afrocarpus gracilior</i> | African Fern Pine | Find Good Proven Example | Evgrn / Conifer | 50-65' x 20-30' | L | M | N | | X | | | | | X | | | |
| <i>Agonis flexuosa</i> | Peppermint Tree | | Evgrn | 25-35' x 15'-30' | M | M | N | | | X | | | | X | | X | |
| <i>Alnus rhombifolia</i> | White Alder | Water - But Riparian, Bioswale | Decid / Flwer | 50-90' x 40-70' | M | M | Y | | | | | | | | | | X |
| <i>Arbutus unedo</i> | Strawberry Madrone | Single Stem, Fruiting, Not over Pvmt | Evgrn / Flwer | 20-30' x 15-40' | L | M | N | | | | | | | | | X | |
| <i>Arbutus x 'Marina'</i> | Marnia Madrone | Standard for Streets/Pkg Lots, Mutli for Planting | Evgrn / Flwer | 40-50' x 25-40' | L | M | N | | | | X | | X | | | | |
| <i>Brachychiton populneus</i> | Kurrajong | Pale Cream Flowers | Decid / Flwer | 50-60' x 30-40' | L | M | N | | | | | | X | | | | |
| <i>Calocedrus decurrens</i> | Incense Cedar | Large planting area required | Conifer | 50'-80" x 30-40' | L | L | Y | | | | | | X | | | X | |
| <i>Carpinus betulus</i> | Fastigiate European Hornbeam | Hedge, Perimeter | Decid / Flwer | 35-40' x 20-30' | M | M | N | | | | | | | | | X | |
| <i>Cedrus atlantica glauca 'fastigata'</i> | Columnar Blue Atlas Cedar | Good Narrow Tree - Screen, Hedge | Conifer | 40-60' x 25-40' | L | M | N | | | | X | | | | | X | |
| <i>Cedrus deodara</i> | Deodar Cedar | Large planting area required | Conifer | 40-60' x 20-30' | L | M | N | | | | | | X | | | X | |
| <i>Celtis laevigata var. reticulata</i> | Netleaf Hackberry (Western Hackb) | Dry fruit litter | Decid | 25'-30' x 25'-30' | L | L/M | Y | | | | | | | | | | X |

TREE SPECIES PLANT LIST

| Latin Name | Common Name | Comments/ Notes | Decid / Evgrn / Flwr / Confr / Shrub-like | Mature Size H' X W' | WATER USE WUCOL San Jose* | Salt Tolerance for RCW (H,M,L)** | CA Native (Y/N) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|---|-------------------------|---|---|-----------------------|---------------------------|----------------------------------|-----------------|------------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Celtis sinensis</i> | Chinese Hackberry | Dry fruit litter suseptible to Asian woolly aphid | Decid | 25-35' x 25-30' | L | L | V | | | | | | | | | | X |
| <i>Cercis canadensis var. texensis</i> | Oklahoma Redbud | Smaller, Bushier Tree | Decid / Flwer | 25-35' x 25-35' | L/M | L | N | | | | | | | | | X | |
| <i>Cercis occidentalis</i> | Western Redbud | Local native, flowering, needs good drainage | Decid / Flwer | 12-20' x 20-15' | L | M | Y | | | | X | | X | | X | X | |
| <i>Chilopsis linearis 'Bubba'</i> | Desert Willow | Small flowering accent tree, native to southern Cali | Decid / Flwer | 12-20' x 10-15' | L | H | Y | | | | X | | X | X | | X | |
| <i>Chionanthus retusus</i> | Chinese Fringetree | Small flowering accent tree | Decid / Flwer | 10-20' X 6-12' | M | M | N | | | | X | | | | | | |
| <i>Chitalpa tashkentensis 'Pink Dawn'</i> | Pink Dawn Chitalpa | Cross between Catalpa nad Chilopsis, Smaller flowering tree | Decid / Flwer | 25-35' x 25-35' | L | M | N | | | X | X | X | | X | | | |
| <i>Corylus cornuta var. californica</i> | Western Hazelnut | Shade only, protected areas | Decid / Flwer | 15-18' x 12-18" | M | M | Y | | | | X | | | | X | X | |
| <i>Corymbia ficifolia</i> | Red Flowering Gum | Good Wildlife Plant, Salt Tolerant | Evgrn / Flwer | 18-45' x 15-60' | L | H | N | | X | | | | | | | | |
| <i>Fraxinus latifolia</i> | Oregon Ash | Generally not recommended, Weak wooded, Emerald Ash Borer but could | Decid | 65-80' x 50' | M | M | Y | | | | | | | X | | | X |
| <i>Fraxinus velutina</i> | Arizona Ash | Weak wooded, Emerald Ash Borer, older trees require significant | Decid | 30-50' x 30-40' | M | M | Y | | | | | | | X | | | X |
| <i>Geijera parviflora</i> | Australian Willow | More commonly planted in southern CA, select good structure in nursery | Evergreen | 25-35' x 20' | L | H | N | | X | X | | | | X | | | |
| <i>Ginkgo biloba "Autumn Gold"</i> | Maidenhair Tree | Can turn back to female, Use sparingly in narrow conditions for yellow fall color | Decid | 25-50' x 25-35' | M | L | N | | | X | X | | | | | | |
| <i>Gledistia triacanthos var. inermis 'Shademaster'</i> | Thornless Honey Locust | Fast growing, minimal seed pods, ensure good structure at nursery | Decid / Flwer | 45' x 35' | L | L | N | | | X | X | X | | | | | |
| <i>Hesperocyparis arizonica</i> | Arizona Cyress | Screen tree, can be used at edges of bioswales | Conifer | 30-40' x 15-20' | L | H | N | | | | | | X | | | X | |
| <i>Hesperocyparis forbesii</i> | Tecate Cypress | | Conifer | 10-25' x 20' | L | H | Y | | | | | | X | | | X | X |
| <i>Juglans californica</i> | California Black Walnut | Drops large fruit, Not over pedestrian areas | Decid | 15' - 30' x 15' - 30' | L | L | Y | | | | | | | | X | X | X |
| <i>Koelreuteria bipinnata</i> | Chinese Flame Tree | Good shade trees | Decid / Flwer | 20-35' x 25-40' | M | M | N | | X | X | | X | | X | | | |
| <i>Lagerstroemia spp. (Not Recommended) ***</i> | Crepe Myrtle *** | Only to match existing street trees, over planted in San Jose | Decid / Flwer | 25' x 25' | L | L | N | | | | | | | | | | |
| <i>Laurus nobilis</i> | Grecian Laurel | Sensitive to clay soils and poor drainage, plant only in bioswales | Evgrn | 15-20' x 20-25' | L | M | N | | | | | | | | | | X |
| <i>Lophostemum confertus</i> | Brisbane Box | | Evgrn / Flwer | 30-50 x 10-30' | L | M | N | | X | X | | | | X | | | |
| <i>Lyonothamnus floribundus</i> | Catalina Ironwood | Needs drainage, good in tight groves | Evgrn / Flwer | 25-50' x 12-24' | L | M | Y | | | | X | | X | | | X | |

TREE SPECIES PLANT LIST

| Latin Name | Common Name | Comments/ Notes | Decid / Evgrn / Flwr / Confr / Shrub-like | Mature Size H' X W' | WATER USE WUCOL San Jose* | Salt Tolerance for RCW (H,M,L)** | CA Native (Y/N) | TYPOLGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|--|-----------------------------|--|---|------------------------|---------------------------------------|---|-----------------------|-----------|----------------------|----------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Maleleuca ericifolia</i> | Swamp Paperbark | Salt tolerant | Evgrn / Flwer | 20-40' X 15-25' | L | H | N | | | | | | X | | | | |
| <i>Melaleuca stypheliodes</i> | Prickly Paperbark | Salt tolerant, often multi-trunked | Evgrn / Flwer | 30-40' x 10-20' | L | M | N | | | | X | | X | X | | | |
| <i>Metrosideros excelsa</i> | New Zealand Christmas Tree | | Evgrn / Flwer | 30-35' x 30-35' | L | M | N | | | X | X | | | X | | | |
| <i>Olea europea 'Swan Hill'</i> | Fruitless Olives | also Wilsonii, multitrunk - can be limbed up to height of 8' clear if needed | Evgrn | 25-30' x 25-30' | L | M | N | | | | X | X | X | X | | | |
| <i>Parkinsonia x 'Desert Museum'</i> | Palo Verde | Native to desert southwest | Decid / Flwer | 15-25' x 15-20' | L | H | Y | | | | X | X | X | | | | |
| <i>Pinus eldarica</i> | Mondell Pine | Tolerates Clay Soi | Conifer | 30-80' x 15-25' | L | M | N | | X | | | | | X | | X | |
| <i>Pinus torreyana</i> | Torrey Pine | Very large cones, not over pedestrian/parking areas | Conifer | 40-60' x 20-30' | L | M | Y | | | | | | | | X | X | |
| <i>Pistacia chinensis (Not Recommended) ***</i> | Chinese Pistache *** | Only to match existing street trees, overplanted in San Jose | Decid / Flwer | 25-35' x 25-35' | L | M | N | | | | | | | | | | |
| <i>Plantanus racemosa</i> | Western Sycamore | Use in bioswales, Ensure that nursery stock is straight species, not hybridized. | Decid | 30-80' x 20-50' | M | M | Y | | | | | | | | | | X |
| <i>Platanus x acerifolia (Not Recommended) ***</i> | London Plane Tree *** | Only to match existing street trees, overplanted in San Jose | Decid | 70-85' x 50-70' | L | M | N | | | | | | | | | | |
| <i>Populus fremontii</i> | Fremont Cottonwood | gold fall color, surface roots, weak branches | Decid | 40-80' x 30-50' | M | M | Y | | | | | | | | X | | X |
| <i>Propospis glandulosa 'Maverick'</i> | Thornless Honey Mesquite | Spreading, need sufficient planter width, Native to desert southwest | Decid / Flwer | 25-35' x 20-35' | N/A | H | Y | | | | | | X | X | | | |
| <i>Prunus ilicifolia ssp. lyonii</i> | Catalina Cherry | Wildlife value, fruiting, good screen | Decid / Flwer | 25-35' x 20-30' | L | M | Y | | | | | | | | X | X | |
| <i>Prunus serrulata 'Kwanzan'</i> | Japanese Flowering Cherry | Needs good drainage, no clay soils | Decid / Flwer | 30' x 20-30' | M | M | N | | | | | X | | | | | |
| <i>Pyrus calleryana (Not Recommended) ***</i> | Callary Pear *** | Only to match existing street trees, Invasive in waterways | Decid / Flwer | 15-30' x 10-25' | M | M | N | | | | | | | | | | |
| <i>Quercus agrifolia</i> | Coast Live Oak | Needs large planting area, drops acorns | Evgrn | 20-70' x 20-70' | L | M | Y | | | | | | X | X | X | X | |
| <i>Quercus douglasii</i> | Blue Oak | Habitat species, difficult to source/establish | Decid | 20-70' x 20-70' | L | L | Y | | | | | | | | | | |
| <i>Quercus engelmannii</i> | Engelmann Oak | Needs large planting area | Evgrn | 50-65' x 80-120' | L | M | Y | | X | | | X | | X | | | |
| <i>Quercus frainetto 'Schmidt'</i> | Hungarian Oak | Grafted, good symmetry potential | Decid | 100' x 70' | L | L | N | | | | | X | | X | | | |
| <i>Quercus fusiformis</i> | Escarpment (Texas) Live Oak | Similar to Q. Virginiana, more drought tol. | Semi-Deciduous | 20-40' x 20-40' | L | M | N | | | X | | X | X | X | | | |
| <i>Quercus hypoleucooides</i> | Silverleaf Oak | Difficult to source, but great tree | Evgrn | 30-60' x 20-30' | L | M | Y | | | | X | | X | | | X | |

TREE SPECIES PLANT LIST

| Latin Name | Common Name | Comments/ Notes | Decid / Evgrn / Flwr / Confr / Shrub-like | Mature Size H' X W' | WATER USE WUCOL San Jose* | Salt Tolerance for RCW (H,M,L)** | CA Native (Y/N) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|---|----------------------|--|---|------------------------|---------------------------------------|---|-----------------------|------------|----------------------|----------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Quercus ilex (Not recommended) ***</i> | Holly Oak *** | Only to match existing street trees | Evgrn | 30-60' x 30-60' | L | M | N | | | | | | | | | | |
| <i>Quercus kelloggii</i> | California Black Oak | Local Native, slow growing, difficult to source | Decid | 30-70' x 30-50' | L | M | Y | | | | | | X | | | X | |
| <i>Quercus lobata</i> | Valley Oak | | Decid | 50-70' x 50' | L | L/M | Y | | X | | | X | | X | X | | X |
| <i>Quercus rugosa</i> | Netleaf Oak | | Evgrn | 30-50' x 20-30' | L | M | N | | X | X | | | | X | | X | |
| <i>Quercus suber</i> | Cork Oak | Needs large planting area | Evgrn | 50'-70' x 50' - 70' | L | M | N | | X | X | | X | | X | | | |
| <i>Quercus tomentella</i> | Island Oak | | Evgrn | 20-50' x 25-40' | L | L | Y | | | X | X | | X | | | X | |
| <i>Quercus virginiana</i> | Southern Live Oak | Needs large planting area | Evgrn | 40-80' x 60-100' | M | M | N | | | | | X | X | X | | | X |
| <i>Quercus wislizenii</i> | Interior Live Oak | Difficult to source | Evgrn | 30-70' x 40-80' | L | L | Y | | | | | | | | | X | |
| <i>Salix laevigata</i> | Red Willow | Habitat value, riparian, can limit visitbility | Evgrn-Shrub-like | 25-50' x 15-35' | M | M | Y | | | | | | | | X | | |
| <i>Salix lasiolepis</i> | Arroyo Willow | Habitat value, riparian, can limit visitbility | Evgrn-Shrub-like | 10-35' | M | M | Y | | | | | | | | X | | |
| <i>Sambucus nigra ssp. caerulea</i> | Blue Elderberry | Habitat value, riparian, can limit visitbility | Decid / Flwr | 20 x 20' | L | M | Y | | | | | | | | X | X | X |
| <i>Sequoia Sempervirens (Not recommended) ***</i> | Coastal Redwood *** | High Water Use, use only to match | Conifer | 70-100' x 15-30 | H | L | Y | | | | | | | | | | |
| <i>Taxodium distichum</i> | Bald Cypress | Use at bottom of bioswales that allow tree | Conifer / Decid | 60-80 x 20-30; | M | L | N | | | | | | | | | | X |
| <i>Tilia tomentosa 'Sterling'</i> | Steriling Linden | | Decid | 40-50' x 20-30' | L | M | N | | X | X | X | | | | | | |
| <i>Tristaniopsis laurina 'Elegant'</i> | Elegant Water Gum | | Evgrn | 20-35' x 15-25' | M | M | N | | X | X | X | | | X | | | |
| <i>Ulmus parvifolia</i> | Chinese Elm | Emer II', Fronteir, Sepmervirens, good fast growing shade tree | Semi-Deciduous | 35-45' x 35-50' | M | M | N | | | | | | X | | | | |

TREE SPECIES PHOTOS: MAJOR STREETS



AFRICAN FERN PINE
Afrocarpus gracilior
Water Usage : Low



MONDELL PINE
Pinus eldarica
Water Usage : Low



RED FLOWERING GUM
Corymbia ficifolia
Water Usage : Low



ARIZONA ASH
Fraxinus velutina
Water Usage : Low



CHINESE FLAME TREE
Koelreuteria bipinnata
Water Usage : Medium



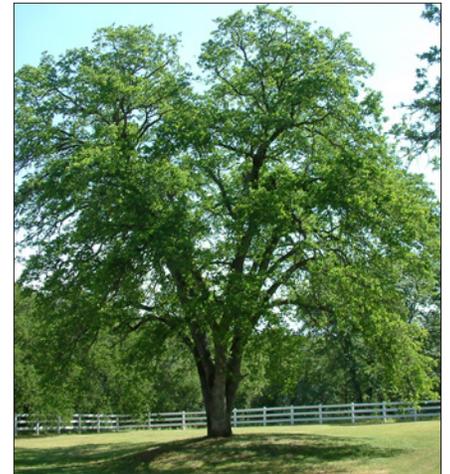
SILVER LINDEN
Tilia tomentosa
Water Usage : Low



CORK OAK
Quercus suber
Water Usage : Low



ENGELMANN OAK
Quercus engelmannii
Water Usage : Low



VALLEY OAK
Quercus lobata
Water Usage : Low

TREE SPECIES PHOTOS: MINOR STREETS



PEPPERMINT TREE
Agonis flexuosa
Water Usage : Low



NETLEAF OAK
Quercus rugosa
Water Usage : Low



ISLAND OAK
Quercus tomentella
Water Usage : Low



PINK DAWN CHITALPA
Chitalpa tashkentensis 'Pink Dawn'
Water Usage : Low



AUSTRALIAN WILLOW
Geifera parviflora
Water Usage : Low



AUTUMN GOLD GINKGO
Ginkgo biloba 'Autumn Gold'
Water Usage : Low/Medium



HONEY LOCUST
Gleditsia
Water Usage :



SILVERLEAF OAK
Quercus hypoleucoides
Water Usage : Low



IRON TREE
Metrosideros excelsa
Water Usage : Low

TREE SPECIES PHOTOS: PASEO



STRAWBERRY TREE
Arbutus unedo single stem
Water Usage : Low



FASTIGATE BLUE ATLAS CEDAR
Cedrus atlantica galuca fastigata
Water Usage : Low



WESTERN REDBUD
Cercis occidentalis
Water Usage : Low



PALO VERDE
Parkinsonia x 'Desert Museum'
Water Usage : Low



PINK DAWN CHITALPA
Chitalpa tashkentensis 'Pink Dawn'
Water Usage : Low



SWAN HILL OLIVE
Olea europaea 'Swan Hill'
Water Usage : Low



Santa Cruz Island Ironwood
Lyonothamnus floribunda
Water Usage : Low



SILVERLEAF OAK
Quercus hypoleucoides
Water Usage : Low



ELEGANT WATER GUM
Tristaniopsis laurina 'Elegant'
Water Usage : Low

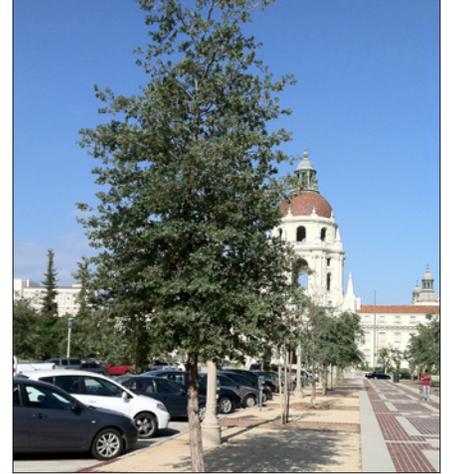
TREE SPECIES PHOTOS: PLAZA



PALO VERDE
Parkinsonia x 'Desert Museum'
Water Usage : Low



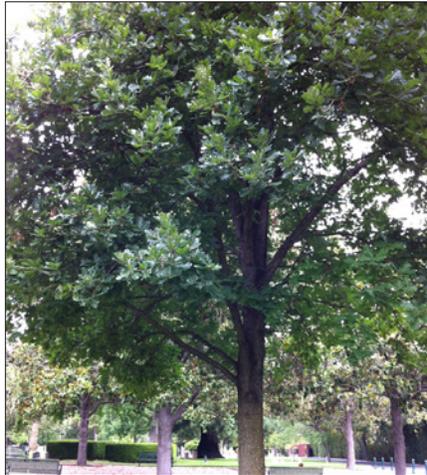
SWAN HILL OLIVE
Olea europea 'Swan Hill'
Water Usage : Low



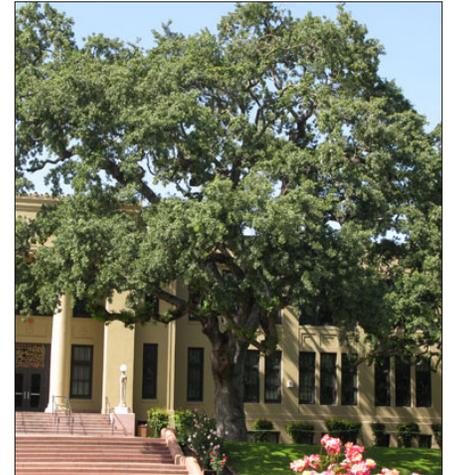
ENGELMANN OAK
Quercus engelmannii
Water Usage : Low



CORK OAK
Quercus suber
Water Usage : Low



HUNGARIAN OAK
Quercus frainetto 'Schmidt'
Water Usage : Low



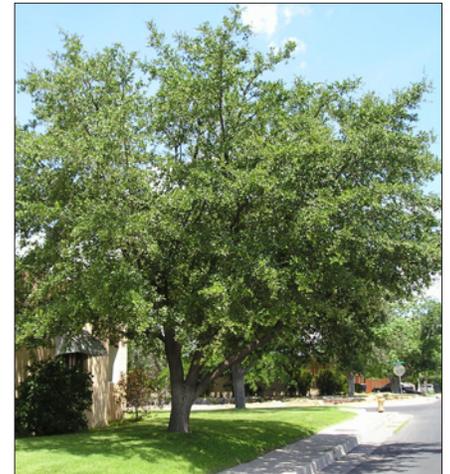
VALLEY OAK
Quercus lobata
Water Usage : Low



HONEY LOCUST
Gleditsia triacanthos
Water Usage : Low



DRAKE CHINESE ELM
Ulmus parvifolia 'Drake'
Water Usage : Medium



HERITAGE LIVE OAK
Quercus fusiformis
Water Usage : Low

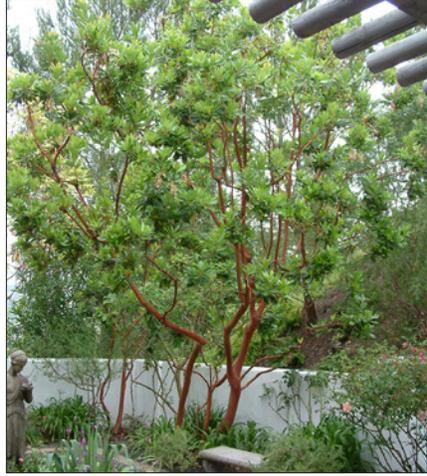
TREE SPECIES PHOTOS: PASSIVE GREEN SPACE



CALIFORNIA BUCKEYE

Aesculus californica

Water Usage : Low



MARINA STRAWBERRY TREE

Arbutus x 'Marina'

Water Usage : Low



DEODAR CEDAR

Cedrus deodara

Water Usage : Low



PALO VERDE

Parkinsonia x 'Desert Museum'

Water Usage : Low



ARIZONA CYPRESS

Hesperocyparis forbesii

Water Usage : Low



HEATH MELALEUCA

Melaleuca ericifolia

Water Usage : Low



WESTERN REDBUD

Cercis occidentalis

Water Usage : Low



COAST LIVE OAK

Quercus agrifolia

Water Usage : Low



CALIFORNIA BLACK OAK

Quercus kelloggii

Water Usage : Low

TREE SPECIES PHOTOS: PARKING LOTS



AFRICAN FERN PINE

Afrocarpus gracilior

Water Usage : Low



PEPPERMINT TREE

Agonis flexuosa

Water Usage : Low



PINK DAWN CHITALPA

Chitalpa tashkentensis 'Pink Dawn'

Water Usage : Low



AUSTRALIAN WILLOW

Geifera parviflora

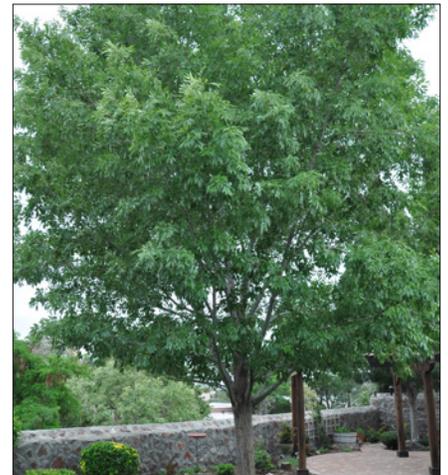
Water Usage : Low



CHINESE FLAME TREE

Koelreuteria bipinnata

Water Usage : Low



ARIZONA ASH

Fraxinus velutina

Water Usage : Low



PALO VERDE

Parkinsonia x 'Desert Museum'

Water Usage : Low



CORK OAK

Quercus suber

Water Usage : Low



ENGELMANN OAK

Quercus engelmannii

Water Usage : Low

TREE SPECIES PHOTOS: BIORETENTION AND BIOSWALES



BIGLEAF MAPLE
Acer macrophyllum
Water Usage : Medium



WHITE ALDER
Alnus rhombifolia
Water Usage : Medium



ELEGANT WATER GUM
Tristaniopsis laurina 'Elegant'
Water Usage : Low



ROBERTS CALIFORNIA SYCAMORE
Plantanus racemosa Roberts
Water Usage : Medium



BAY LAUREL
Laurus nobilis
Water Usage : Medium



VALLEY OAK
Quercus lobata
Water Usage : Low



WESTERN HACKBERRY
Celtis occidentalis
Water Usage : Medium



MARINA STRAWBERRY TREE
Arbutus x Marina
Water Usage : Low



CATALINA CHERRY
Prunus ilicifolia ssp. lyonii
Water Usage : Low

TREE SPECIES PHOTOS: RIPARIAN



BIGLEAF MAPLE
Acer macrophyllum
Water Usage : Medium



WESTERN REDBUD
Cercis occidentalis
Water Usage : Low



CALIFORNIA BUCKEYE
Aesculus californica
Water Usage : Low



CALIFORNIA SYCAMORE
Plantanus racemosa
Water Usage : Medium



CATALINA CHERRY
Prunus ilicifolia ssp. lyonii
Water Usage : Low



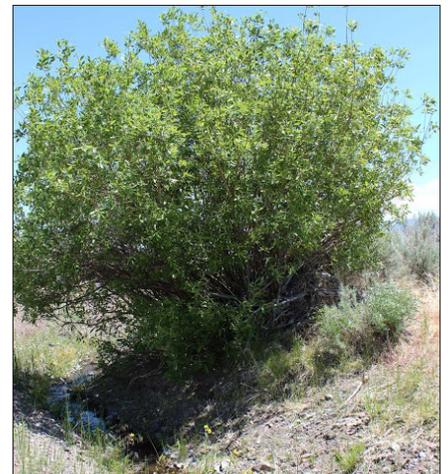
VALLEY OAK
Quercus lobata
Water Usage : Low



BLUE ELDERBERRY
Sambucus nigra ssp. Caerulea
Water Usage : Low



COAST LIVE OAK
Quercus agrifolia
Water Usage : Low



ARROYO WILLOW
Salix lasiolepis
Water Usage : Medium/High

TREE SPECIES PHOTOS: LANDSCAPE BUFFERS / SLOPES



CALIFORNIA BUCKEYE
Aesculus californica
Water Usage : Low



WESTERN REDBUD
Cercis occidentalis
Water Usage : Low



TECATE CYPRESS
Hesperocyparis forbesii
Water Usage : Low



SANTA CRUZ IRONWOOD
Lyonothamnus floribundus
Water Usage : Low



TORREY PINE
Pinus torreyana
Water Usage : Low



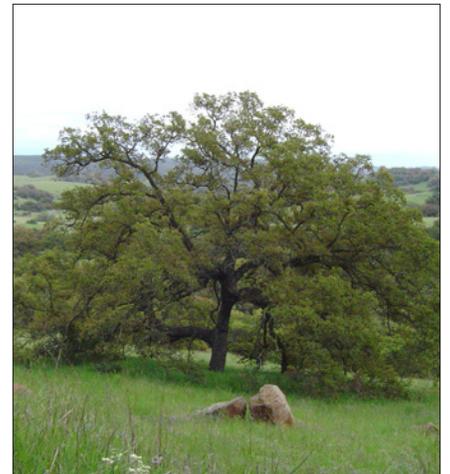
CATALINA CHERRY
Prunus ilicifolia ssp. lyonii
Water Usage : Low



COAST LIVE OAK
Quercus agrifolia
Water Usage : Low



CALIFORNIA BLACK OAK
Quercus kelloggii
Water Usage : Low



ENGELMANN OAK
Quercus engelmannii
Water Usage : Low

UNDERSTORY SPECIES PLANT LIST

The following plant list includes understory species recommended for use at TOD projects.

Basic species information is provided. Species have an X in the box for each Landscape Typology for which they are appropriate. California Native Species highlighted in yellow

* Water Use Information provided by WUCOLS for San Jose, from https://ucanr.edu/sites/WUCOLS/Plant_Search/

VL = very low water use L=low water use, M=moderate water use (use sparingly, highlighted in blue), H=high water use (not recommended)

** Salt Tolerance Information as available from varied sources.

H = highly tolerant, M = moderately tolerant, will typically show minimal symptoms, L= not tolerant/ sensitive, will exhibit symptoms

| Latin Name | Common Name | Plant Type | Notes | Mature Size H' X W' | Sun / Shade | Evrgrn / Decid | WATER USE WUCOLS (San Jose)* | Salt Tolerance for RCW (H,M,L)** | Cali Native (Y/N) | Region of Origin (if not native to Cali) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|--|--------------------------|------------------------|--|------------------------|-------------------|-------------------|--|---|-------------------------|---|------------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Abutilon palmeri</i> | Indian Mallow | Perennial Sub-Shrub | Accent Shrub | 3'-5' x3'-5' | Sun | E | L | M | Y | | | | | | | X | | | X | |
| <i>Acacia redolens</i> | Prostrate Acacia | Groundcover - Woody | Non-Native, but tolerates slopes and no irrigation, Desert Carpet is cultivar | 2' x 10-12' | Sun | E | VL | H | N | Australia | | | | | | | | | | |
| <i>Achillea millefolium</i> | White Yarrow | Perennial - herbaceous | Mix with grasses, cultivars Coronation Gold, Paprika, Sonoma Coast, MoonDust, | 3' x 3' | Sun to Part-Shade | D | L | M | Y | | | X | X | X | | X | X | X | | X |
| <i>Acmispon glaber</i> | Deer Weed | Perennial Sub-Shrub | Pioneer species, nitrogen fixer | 2-3' x 2-3' | Sun | E | VL | M | Y | | | | | | | | X | X | X | X |
| <i>Aeonium spp.</i> | Aeonium | Succulent | Specialty Planters | up to 5' x 5' | | E | L | M | N | South Africa | | | | X | X | | | | | |
| <i>Agastache rupestris</i> | Licorice Mint | Perennial - herbaceous | | 3' x 1.5' | Sun to Part-Shade | D | L | M | N | Southwest US | | | | | | | | | | |
| <i>Agave attenuata</i> | Agave | Succulent | | 5' x 8' | Sun | E | L | M | N | Mexico | | | | X | X | X | | | | |
| <i>Agave Blue Glow</i> | Blue Glow Century Plant | Succulent | | 2' x 3' | Sun | E | L | L | N | Mexico | | | | | X | X | | | | |
| <i>Agave spp.</i> | Agave | Succulent | Many Agave species and cultivars are listed on SCVWD approved plant list and can be used as | varies | Sun | E | L | M | N | Mexico | | | | | | | | | | |
| <i>Aloe spp.</i> | Aloe | Succulent | Many cultivars listed on SCVWD approved plant list and can be used as appropriate i.e. Aloe Vera, Aloe | avg. 3' x 3' | Sun to Part-Shade | E | L | M | N | South Africa | | | X | | X | | | | | |
| <i>Anigozanthus spp.</i> | Kangaroo Paw | Perennial | many cultivars are listed on SCVWD approved plant list Height and color vary. | 3' x 4' | Sun | E | L | M | N | Australia | | | X | X | X | X | | | | |
| <i>Aquilegia formosa</i> | Columbine | Perennial | Shade only, protected planters | 3' x 1.5' | Shade | D | L | M | Y | | | | X | | X | | | | | |
| <i>Arbutus unedo multi-stem</i> | Strawberry Madrone | Shrub - tall | Fruit | 15' x 15' | Sun-Part Shade | E | L | M | N | Mediterranean | | | | | | X | | | X | |
| <i>Arctostaphylos 'Emerald Carpet'</i> | Emerald Carpet Manzanita | Groundcover - Woody | Carmel Sur' or A. uva ursi | 1.3' x 6' | Sun to Part-Shade | E | L | M | Y | | | X | | | X | X | | X | | |
| <i>Arctostaphylos 'Pacific Mist'</i> | Pacific Mist Manzanita | Groundcover - Woody | | 2' x 8' | Sun to Part-Shade | E | L | L | Y | | | X | X | | X | X | | X | | |
| <i>Arctostaphylos bakeri 'Louis Edmunds'</i> | Bakers Manzanita | Shrub - med | | 6' x 6' | Sun | E | L | L | Y | | | | | | | | | | X | |
| <i>Arctostaphylos densiflora</i> | Vine Hill manzanita | Shrub - med | Howard McMinn' or 'Sentinel' | 3' x 6' | Sun-Part Shade | E | L | M | Y | | | | | X | X | X | | X | | |
| <i>Arctostaphylos glauca</i> | Big Berry Manzanita | Shrub - tall | | 20' x 20' | Sun | E | L | M | Y | | | | | | | | | | | |

UNDERSTORY SPECIES PLANT LIST

| Latin Name | Common Name | Plant Type | Notes | Mature Size H' X W' | Sun / Shade | Evrgrn / Decid | WATER USE WUCOLS (San Jose)* | Salt Tolerance for RCW (H,M,L)** | Cali Native (Y/N) | Region of Origin (if not native to Cali) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|--|------------------------|------------------------|---|------------------------|-------------------|-------------------|--|---|-------------------------|---|------------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Arctostaphylos hookeri</i> | Hooker Manzanita | Shrub - low | | 6' x 6' | Sun to Part-Shade | E | L | M | Y | | | | | | | | | | X | |
| <i>Arctostaphylos John Dourley</i> | John Dourley Manzanita | John Dourley Manzanita | Shrub - Low, spreading, reddish leaves and bark. | 2' x 6' | Sun | E | L | M | Y | | | | | | | | | | | |
| <i>Arctostaphylos manzanita</i> | Manzanita | Shrub - tall | Helena' / 'Austin Griffiths' well draining soil | 20' x 10' | Sun | E | L | M | Y | | | | | | | X | | | | |
| <i>Arctostaphylos pumila Wavelength'</i> | SandMat Manzanita | Shrub - med | Mounding shrub, | 3' x 15' | Sun to Part-Shade | E | L | L | Y | | | | | | | | | | | |
| <i>Arctostaphylos refugioensis</i> | Refugio Manzanita | Shrub - med | | 13' x 7' | Sun | E | L | M | Y | | | | | | | | | | | |
| <i>Arctostaphylos stanfordiana</i> | Standford Manzanita | Shrub - med | Mounding shrub | 7' x 6' | Sun | E | L | M | Y | | | | | | | | | | X | |
| <i>Aristida purpurea</i> | Purple Three-awn | Grass | Can spread by seed, Warm Season | 3' x 2' | Sun | D | L | M | Y | | | | | | | | | | | |
| <i>Aristolochia californica</i> | Dutchman's Pipe | Vine | Pipevine SwallowTail Host, Excellent climber up Gabions | 20' x 20' | Shade | D | N/A | L/M | Y | | | | | | | | X | | X | |
| <i>Armeria maritima</i> | Sea Pink | Perennial | | 1' x 1' | Part Shade to Sun | E | M | L | N | Mediterranean | | X | X | X | | X | | | | |
| <i>Artemisia californica</i> | Sagebrush Prostrate | Groundcover - Woody | brown if not irrigated (eg. Berryessa) | 3-4' x 3-4' | Sun | E | L | L | Y | | | | | | X | | | | | X |
| <i>Artemisia douglasiana</i> | Mugwort | Perennial | Will take over plantbed | 3' x 3' | Sun to Part-Shade | D | L | M | Y | | | | | | | | | | | X |
| <i>Asclepias californica</i> | California Milkweed | Perennial | Habitat - Monarch | 3' x 3' | Sun | D | L | H | Y | | | | | | | | | | | X |
| <i>Asclepias fascicularis</i> | Narrow leaf milkweed | Perennial | Habitat - Monarch | 3' x 1' | Sun | D | L | M | Y | | | | | | | | | | X | X |
| <i>Asclepias speciosa</i> | Showy Milkweed | Perennial | Habitat - Monarch | 3' x 3' | Sun | D | L | M | Y | | | | | | | | | | | X |
| <i>Baccharis glutinosa</i> | Marsh Baccharis | Perennial | Salt Marsh Baccharis, only to be planted as part of Bioswale Mix | 6' x 6' | Sun | E | M | M | Y | | | | | | | | | | | X |
| <i>Baccharis pilularis 'Twin Peaks'</i> | Dwarf Coyote Bush | Groundcover - Woody | | 3'x12' | Sun to Part-Shade | E | L | L | Y | | | x | | | | | x | | x | x |
| <i>Baileya multiradiata</i> | Desert marigold | Perennial | Fall blooming yellow flowers | 1.6' x 1' | Sun | D | L | M | Y | | | | | | | | | | | |
| <i>Berberis aquifolium var. repens</i> | Creeping Oregon Grape | Groundcover -Woody | Shade | 2.5' x 5' | Shade to Part-Sun | D | L | M | Y | | | | | X | | X | | | X | |
| <i>Berberis pinnata ssp. Insularis</i> | California Barberry | Shrub - med | Many cultivars have spiny leaves. Blonde Ambition' or straight species. Warm Season, Winter Dormant | 10' x10' | Shade to Part-Sun | D | M | L | Y | | | | | X | | X | | | X | |
| <i>Bouteloua gracilis</i> | Blue Gramma Grass | Grass | Mix with Native Grasses and In Bioswales | 1.5' x 2' | Sun | D | L | H | Y | | | X | X | X | X | X | X | | | |
| <i>Brodiaea californica</i> | California Brodiaea | Bulb | | 1.5' - 2' x .5' | Sun | D | L | L | Y | | | | | | | | | | X | |
| <i>Bromus carinatus</i> | California Brome | Grass | | 1-5' x 1-2' | S | D | L | L | Y | | | | | | | | | | | X |
| <i>Bulbine frutescens</i> | Bulbine | Succulent | | 1.5' x 3' | Sun to Part-Shade | E | L | M | N | South Africa | | X | X | | X | | | | | |

UNDERSTORY SPECIES PLANT LIST

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|--|----------------------------------|--------------------|---|------------------------|-------------------|-------------------|--|---|-------------------------|---|-----------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Calamagrostis nutkaensis</i> | Reed Grass | Grass | Larger bunch grass, bottoms of bioswale basins | 3' x 3' | Sun to Part-Shade | E | M | M | Y | | | | | | | | X | | | X |
| <i>Calochortus luteus</i> | Golden Mariposa | Bulb | Specialty Planter under Oaks | 1' x .5' | Shade to Part-Sun | D | L | H | Y | | | | | | | X | | | X | |
| <i>Calycanthus occidentalis</i> | Western Spice Bush | Shrub - med | Good for Bioswale Height | 8' x 20' | Shade to Part-Sun | D | M | M | Y | | | | | X | | X | | X | | X |
| <i>Calylophus drummondiana, berlandieri, Hartwegii</i> | Texas Primrose, Sierra Sundrop | Perennial | low groundcover massing | 2' x 2' | Sun | D | L | M | N | Southwest US | | X | X | X | X | X | | | | |
| <i>Carex barbarae</i> | Santa Barbara Sedge | Grass | | 3' x 3' | Sun to Part-Shade | E | N/A | M | Y | | | | | | | | | | | X |
| <i>Carex nudata</i> | Torrent Sedge | Grass | | 2.5' x 2' | Sun to Part-Shade | E | N/A | H | Y | | | | | | | | | | | X |
| <i>Carex pansa</i> | Dune Sedge | Grass | | 1' x 3' | Sun to Shade | E | M | M | Y | | | X | X | X | | X | X | X | | X |
| <i>Carex praegracilis</i> | Meadow Sedge | Grass | | 2' x 3' | Sun to Shade | E | M | M | Y | | | X | X | X | X | X | X | | | X |
| <i>Carex spissa</i> | San Diego Sedge | Grass | Can get very large | 4' x 4' | Sun to Part-Shade | E | M | M | Y | | | | | | | | | | | |
| <i>Carex tumulicola (C. divulsa)</i> | Dwarf Sedge | Grass | Clumping sedge, workes well for bioswale slopes Best in part shade. will have some yellow leaves year-round, but still healthy | 1' x 1-2' | Shade to Part-Sun | E | L | M | Y | | | | | X | | X | X | X | | X |
| <i>Carpenteria californica</i> | Bush Anemone | Shrub - tall | | 8' x 5' | Shade to Part-Sun | E | M | M | Y | | | | | X | | X | | | | |
| <i>Ceanothus 'Ray Hartman'</i> | Ray Harmtan California Lilac | Shrub - tall | | 30' x 10' | Sun | E | L | | Y | | | | | | | X | | | X | |
| <i>Ceanothus maritimus 'Valley Violet'</i> | Valley Violet Maritime Ceanothus | Shrub - low | | 3' x 5' | Sun to Part-Shade | E | L | M | Y | | | X | X | | X | X | X | | X | |
| <i>Ceanothus thyrsiflorus var. griseus</i> | Carmel Ceanothus | Shrub - med | mounding shrub | 15' x 15' | Sun | E | L | M | Y | | | | | | | | X | | X | |
| <i>Ceanothus thysiflorus 'Variety TBD'</i> | California Lilac | Shrub - tall | Oregon Mist, Concha or other variety | 15' x 15' | Sun | E | L | M | Y | | | | | | | X | | | X | |
| <i>Cercocarpus betuloides</i> | Mountain Mahogany | Shrub - tall | Needs well draining soil | 20' x 12' | Sun | E | VL | M | Y | | | | | | | X | | | X | |
| <i>Chaenomeles speciosa</i> | Flowering Quince | Shrub -tall | Fruiting, Orange flowers in Jan/Feb | 10' x 12' | | D | L | L | N | Mediterranean | | | | | | X | X | | X | |
| <i>Chondropetalum elephantium</i> | Large Cape Rush | Grass | | 5' x 10' | Sun | E | L | L | N | South Africa | | | | X | | X | X | | | |
| <i>Chondropetalum tectorum</i> | Small Cape Rush | Grass | | 3' x 3' | Sun | E | L | M | N | South Africa | | | | X | | X | X | | | |
| <i>Cistus ladanifer</i> | Rockrose | Shrub - med - tall | | 6' x 5' | Sun | E | L | M | N | Mediterranean | | | | X | | X | | | | |
| <i>Cistus salvifolius prostratus</i> | Sageleaf Rockrose | Groundcover | | 2' x 6' | Sun to Part-Shade | E | L | M | N | Mediterranean | | X | X | | X | X | | | | |
| <i>Clarkia unguiculata</i> | Elegant Clarkia | Wildflower | Annual, C. rubicunda also appropriate | 3' x 3' | Sun | D | N/A | M | Y | | | | | | | | | | X | |
| <i>Clematis ligustifolia</i> | Clematis | Vine | Also C. armandii, | up to 30' x 6' | Sun to Part Shade | D | M | L | Y | | | | | | | | | | X | |

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|--|---------------------------|------------------------|--|------------------------|-------------------|-------------------|--|---|-------------------------|---|-----------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Collinsia heterophylla</i> | Chinese Houses | Wildflower | Annual | 1.6' x 4' | Shade | D | N/A | M | Y | | | | | | | | | | X | |
| <i>Coreopsis grandiflora</i> | Coreopsis | Perennial | | 2' x 2' | Sun | D | M | L | Y | | | | | | | X | | | | |
| <i>Corylus cornuta ssp. Californica</i> | Hazelnut | Shrub -tall | Small Tree | 7'-7' | Shade | D | M | M | Y | | | | X | X | | X | | X | | |
| <i>Daphne x transatlantica</i> | Dapne | Shrub - med | Evergreen shrub with white flowers, droupt tolerant | 3' x 3' | Sun to Part-Shade | E | L | M | N | Asia | | | | | | | | | | |
| <i>Dasyliiron wheeleri</i> | Desert spook | Succulent | | 5' x 5' | Sun | E | L | M | N | Soutwest US | | | | | X | X | | | | |
| <i>Dendromecon hardfordii</i> | Bush Poppy | Shrub - med | | 15' x 15' | Sun to Part-Shade | E | L | L | Y | | | | | | | X | | X | X | |
| <i>Deschampsia cespitosa</i> | Tufted Hair Grass | Grass | | 3' x 3' | Sun | D | L | L | Y | | | | | | | | X | X | | X |
| <i>Dichelostemma capitatum</i> | Bluedicks | Bulb | Mix with Native Grasses and In Bioswales | 1.5' - 2' x .5' | Sun | D | VL | M | Y | | | | | | | | | | | X |
| <i>Dietes iridoides</i> | Fortnight Lily | Perennial | | 2' x 3' | Sun to Part-Shade | E | L | M | N | South Africa | | X | X | X | | | X | | | |
| <i>Diplacus aurantiacus</i> | Bush Monkey Flower | Perennial Sub-Shrub | | 4' x 3' | Sun to Part-Shade | E | L | M | Y | | | | | | | | | | X | |
| <i>Dryopteris arguta</i> | Coastal Woodfern | Fern | Under Oaks | 2' x 2' | Partial | E | M | L | Y | | | | | | | | | | | |
| <i>Echeveria spp.</i> | Hens and Chicks | Succulent | Specialty Planters | 0.7' x 0.7' | Sun | E | L | M | N | South Africa | | | | X | X | | | | | |
| <i>Elymus glaucus</i> | Blue Wildrye | Grass | | 5' x 1' | Sun to Part-Shade | D | N/A | M /H | Y | | | | | | | | | | X | |
| <i>Elymus triticoides</i> | Creeping Wildrye | Grass | shorter leaves and typically does not flower. | 4' x 1' | Sun | D | L | M /H | Y | | | | | | | | X | | X | X |
| <i>Encelia Californica</i> | California Bush Sunflower | Perennial Sub-Shrub | | 4x 5' | Sun to Part-Shade | D | L | M | Y | | | | | | | X | | X | | |
| <i>Epilobium canum</i> | California Fuchsia | Perennial | Also Epilobium californica | 3' x 3' | Sun to Part-Shade | D | L | M | Y | | | | | | X | X | | | X | |
| <i>Ericameria ericoides</i> | | Perennial Sub-Shrub | | 3' x 4' | Sun | D | L | M /H | Y | | | | | | | | | | X | |
| <i>Erigeron glaucus 'Wayne Roderick'</i> | Wayne Roderick Daisy | Perennial - herbaceous | | 0.5' x 0.7' | Sun to Part-Shade | E | L | M | Y | | | | | | | | | | | X |
| <i>Erigeron karvinskianus</i> | Santa Barbara Daisy | Perennial - herbaceous | | 1-2' x 3-5' | Shade to Part-Sun | E | L | M | Y | | X | X | X | | X | X | | | | X |
| <i>Eriogonum fasciculatum</i> | California Buckwheat | Perennial Sub-Shrub | | 6' x 3' | Mon | E | VL | M | Y | | | | | | | | | | X | |
| <i>Eriogonum giganteum</i> | Saint Catherine's Lace | Perennial Sub-Shrub | | 5' x 10' | Tue | E | L | M | Y | | | | | | | | | | X | |
| <i>Eriogonum grande var. rubescens</i> | Red-Flowered Buckwheat | Perennial Sub-Shrub | | 1.5' x 3' | Wed | E | L | M | Y | | X | | | | | | | | | |
| <i>Eriogonum latifolium</i> | Coast Buckwheat | Perennial Sub-Shrub | | 3' x 3' | Thu | E | L | M | Y | | | | | | | | | | X | |
| <i>Eriogonum nudum</i> | Naked Buckwheat | Perennial Sub-Shrub | | 1' x 0.6' | Fri | E | L | M | Y | | X | | | | X | X | X | | | |

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| <i>Eriogonum umbellatum</i> | Sulfur Buckwheat | Perennial Sub-Shrub | | 2' x 1' | Sat | E | L | M | Y | | | X | | | | X | X | X | X | |
| <i>Escholzia californica</i> | California Poppy | Wildflower | Annual | 1' x 1' | Sun | D | VL | M | Y | | | | | | | | X | | X | X |
| <i>Euthamia occidentalis</i> | Western Goldentop | Perennial - herbaceous | Salt tolerant | 2-5' x 2-6' | Sun | D | N/A | H | Y | | | | | | | | | X | X | X |
| <i>Fallugia paradoxa</i> | Apache Plume | Perennial Sub-Shrub | | 4' x 4' | Sun | D | L | H | Y | | | | | | | X | | | X | |
| <i>Feijoa sellowiana</i> | Pinapple Guava | Shrub - tall | | 15' x 15' | Sun | E | N/A | M | N | Mediterranean | | | | | X | X | | | | |
| <i>Festuca californica</i> | California Fescue | Grass | Salt tolerant | 3' x 2' | Sun to Shade | D | L | M | Y | | | | | | | | | | X | |
| <i>Festuca idahoensis</i> 'Tomales Bay' (Elijah Blue) | Fescue Bunchgrass | Grass | | 1.5' x 1.5' | Part Shade to Sun | D | VL | M | Y | | X | X | X | X | X | | | | | |
| <i>Festuca rubra</i> | Red Fescue | Grass | | 0.5' x 2' | Part Shade to Sun | D | L | L | Y | | | | | | | | | | X | X |
| <i>Ficus pumila</i> | Creeping Fig | Vine | sparingly as screen plant where needed. | 15' x 6' | Sun | E | M | M | N | Asia | | | | | | | | | | |
| <i>Fragaria chiloensis</i> | Beach Strawberry | Groundcover - Herbaceous | | 1' x 3' | Sun to Shade | E | M | M | Y | | | | | | | | | | X | |
| <i>Fragaria vesca</i> | Mountain Strawberry | Groundcover - Herbaceous | | 0.8' x 1.5' | Shade to Part-Sun | E | M | M | Y | | | | | | | | | | X | |
| <i>Fremontodendron californica</i> | Flannel Bush | Shrub - tall | | 20' x 20' | Sun | D | VL | M/H | Y | | | | | | | X | | X | X | |
| <i>Gaillardia grandiflora</i> | Blanket Flower | Perennial - herbaceous | | 2' x 1.2' | Sun | E | L | M/H | N | Texas | X | | | | | | | | | |
| <i>Garrya elliptica</i> | Evie Silk Tassel Bush | Shrub - tall | 'Evie', Garrya fremontii is another native species | 10' x 10' | Sun | E | L | M | Y | | | | | | | | | | X | |
| <i>Gaura lindheimeri</i> | Gaura | Perennial - herbaceous | | 2' x 2' | Sun | D | M | M | N | Mediterranean | | X | | | X | X | | | | |
| <i>Geranium sanguineum</i> | Cranesbill | Groundcover | | 1' x 2' | Shade | D | M | L | N | Mediterranean | | | X | | X | | | | | |
| <i>Gilia capita</i> | Gumplant | Wildflower | Annual | 2' x 2' | Sun | D | L | M | Y | | | | | | | | | | X | |
| <i>Grevelia 'Moonlight' or other variety</i> | | Shrub - med | | 12' x 8' | Sun to Part-Shade | E | L | M/H | N | Australia | | X | | | X | X | | | | |
| <i>Grindelia stricta platyphylla</i> | Coastal Gum Plant | Perennial - herbaceous | Salt tolerant | 2' x 4' | Sun | D | L | H | Y | | | | | | | | | | X | X |
| <i>Helianthemum nummularium</i> 'Henfield Brilliant' | Sunrose | Grouncover | | 0.7' x 2' | Part Shade to Sun | E | L | H | N | Mediterranean | | X | X | | | | | | | |
| <i>Helianthus californicus</i> | California Sunflower | Wildflower | Salt tolerant | 5' x 10' | Sun | D | L | M | Y | | | | | | X | | | | X | |
| <i>Helictotrichon sempervirens</i> | Blue Oat Grass | Grass | | 2' x 3' | Sun | D | L | M | Y | | | | | | | | | | X | X |
| <i>Hesperaloe pavifolia</i> | Red Yucca | grass | | 4' x 6' | Sun | E | L | M/H | Y | | | | | | X | X | X | | | |
| <i>Hesperoyucca whipplei</i> | Chaparral Yucca | Succulent | | 9' x 9' | Sun | E | L | M/H | N | South Africa | | | | | X | X | | | X | |

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| <i>Heteromeles arbutifolia</i> | Toyon | Shrub - tall | | 10' x 8' | Sun to Part-Shade | E | L | M | Y | | | | | | | X | | X | X | |
| <i>Heuchera maxima</i> | Island Alumroot | Perennial | | 3' x 2' | Shade to Part-Sun | E | M | L | Y | | | | X | X | X | | | | X | |
| <i>Heuchera micrantha</i> | Crevice Alumroot | Perennial - herbaceous | | 1-3' x 1' | Shade | E | M | L | Y | | | | | | | | | | | |
| <i>Holodiscus discolor</i> | Creambush | Shrub - med | | 9' x 6' | Shade | E | L | M | Y | | | | | | | X | | | X | |
| <i>Hordeum brachyantherum</i> | Meadow Barley | Grass | | 2' x 1' | Sun to Part-Shade | D | N/A | M | Y | | | | | | | | | | | X |
| <i>Iris 'Canyon Snow'</i> | Canyon Snow Pacific Iris | Perennial | | 1.5' x 3' | Shade to Part-Sun | E | L | L | Y | | X | X | X | | | X | | | | |
| <i>Iris douglasiana</i> | Douglas Iris | Perennial | | 2' x 4' | Shade to Part-Sun | E | L | L | Y | | | | | | | | | | | X |
| <i>Ixia spp.</i> | African Corn Lily | Bulb | | 1' x 1' | Sun to Part Shade | D | N/A | M | N | South Africa | X | X | X | X | | | | | | |
| <i>Jasmine nudiflorum</i> | Winter Jasmine | Vine | | 12' x 4' | Sun to Part Shade | D | L | L | N | Asia | | | X | X | X | | | | | |
| <i>Jasmine officiale f. grandiflorum</i> | Common Jasmine | Vine | | 4' x 7' | Sun to Part Shade | D | L | L | N | Asia | | | X | | X | | | | | |
| <i>Juncus effusus</i> | Green Rush | Grass | | 4' x 1.5' | Sun | E | M | M | Y | | | | | | | | | | | X |
| <i>Juncus patens</i> | Common Rush | Grass | | 3' x 2' | Sun | E | L | M | Y | | | | | | | | | | | X |
| <i>Keckiella cordifolia</i> | Red Hot Pokers | Shrub - low | Under Oaks | 6' x 6' | Shade | D | L | M | Y | | | | | | | X | | | X | |
| <i>Kniphofia uvaria hybrids</i> | Red Hot Poker | Succulent | Prefers some fog | 3' x 3' | Sun to Part Shade | E | L | M/H | N | South Africa | | | X | X | X | | | | | |
| <i>Lavandula spp. 'Goodwin Creek Grey'</i> | Lavender | Perennial Sub-Shrub | | 3' x 4' | Sun to Part-Shade | E | L | M | N | Mediterranean | | X | | X | X | | | | | |
| <i>Lavandula stoechas 'Otto Quast'</i> | Spanish Lavender | Perennial Sub-Shrub | | 3' x 3' | Sun to Part-Shade | E | L | M | N | Mediterranean | | X | | X | X | | | | | |
| <i>Lavatera maritima</i> | Bush Mallow | Perennial Sub-Shrub | | 8' x 12' | Sun to Part-Shade | D | L | M/H | Y | | | | | | | | | | | X |
| <i>Lepechinia calycina</i> | Pitcher Sage | Perennial Sub-Shrub | | 8' x 6' | Shade | D | L | L | Y | | | | X | X | X | | | | | |
| <i>Lessingia felaginifolia</i> | California Dune Aster | Groundcover/Annual | | 0.3' x 8' | Sun to Part-Shade | E | L | M | Y | | | | | | X | | | | X | |
| <i>Leucojum aestivum</i> | Summer Snowflake | Bulb | Can add to streetscapes to enhance diversity | 1.5' - 2' x .5' | Sun | D | M | L | N | Mediterranean | | X | X | | X | | | | | |
| <i>Leymus condensatus 'Canyon Prince'</i> | Canyon Prince Wild Rye | Groundcover | | 4' x 4' | Sun to Part-Shade | E | L | M/H | Y | | | | | | | | X | | X | X |
| <i>Limonium perezii</i> | Statice | Perennial | | 3' x 3' | Sun to Part-Shade | E | L | M/H | N | Mediterranean | X | X | X | | | | | | | |
| <i>Lonicera hispidula</i> | California Honeysuckle | Vine | | 18' x 10' | Sun to Part Shade | D | L | M | Y | | | | X | | X | | | X | X | |
| <i>Lupinus albifrons</i> | Silver Bush Lupine | Perennial Sub-Shrub | | 2' x 5' | Sun | D | VL | M | Y | | | | | | X | | | | X | |

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| Latin Name | Common Name | Plant Type | Notes | Mature Size H' X W' | Sun / Shade | Evrgrn / Decid | WATER USE WUCOLS (San Jose)* | Salt Tolerance for RCW (H,M,L)** | Cali Native (Y/N) | Region of Origin (if not native to Cali) | TYPOLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|---|-------------------------|--------------------------|--|------------------------|-------------------|-------------------|--|---|-------------------------|---|------------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Malacothamnus fasciculatus</i> | Bush Mallow | Perennial Sub-Shrub | | 15' x 10' | Sun | E | VL | M | Y | | | | | | X | X | | | X | |
| <i>Melaleuca armillaris</i> | Bracelet Honey-Myrtle | Shrub - tall | | 15-30' x 15-30' | Sun | E | VL | M/H | N | Australia | | | | | | X | | | | |
| <i>Melaleuca decussata</i> | Totem Poles | Shrub - tall | | 8-2'-x 8-20' | Sun | E | VL | M/H | N | Australia | | | | | | X | | | | |
| <i>Melica imperfecta</i> | Coast Range Onion Grass | Grass | | 1-3' x 2-3' | Sun | D | VL | M | Y | | | | | | | | | X | X | X |
| <i>Monardella villosa</i> | Coyote Mint | Perennial | | 1.5' x 3' | Sun to Shade | D | VL | M | Y | | | | | | | | | X | | |
| <i>Muhlenbergia capillaris</i> | Pink Muhly Grass | Grass | | 4' x 3' | Sun | E | L | M | N | Eastern US | | | | | | | | | | X |
| <i>Muhlenbergia dubia</i> | Pine Muhly Grass | Grass | | 3' x 4' | Sun | E | L | M | N | Southwest US | | X | X | | | X | X | | X | X |
| <i>Muhlenbergia rigens</i> | Deergrass | Grass | | 4-5' x 4-6' | Sun | E | L | M | Y | | | | | | X | X | X | | | X |
| <i>Myoporum parvifolium</i> | Myoporum | Groundcover/Shurb | | 1' x 10' | Sun | E | L | M | N | Australia | | | | | | | | | | |
| <i>Myrtus communis compacta</i> | Dwarf Myrtle | Shrub - med | hedge | 2-4' x 2-4' | Sun | E | L | M | N | Australia | | | | X | X | | X | | | |
| <i>Nolina microcarpa</i> | Bear Grass | Grass | Also N. nelsonii | 5' x 7' | Sun | E | VL | M/H | Y | | | | | | | | | | | |
| <i>Olea europea 'Little Ollie'</i> | Dwarf Olive | Shrub - Med | | 6' x 6' | Sun to Part-Shade | E | VL | M | N | Mediterranean | | | | X | X | X | X | | | |
| <i>Origanum dictamnus and other species</i> | Oreganos | Perennial/Annual | | 1' x 3' | Part Shade to Sun | E | M | L | N | Mediterranean | | | X | | | | | | | |
| <i>Oxalis oregana</i> | Redwood Sorrel | Groundcover | | 1.3' x 6' | Shade | D | M | L | Y | | | | | | | X | | | | |
| <i>Parthenocissus tricuspidata</i> | Virginia Creeper | Vine | Can use P. vitaveae or P. henryaba as well | up to 50' x 10' | Sun to Part Shade | D | L | M | N | North America | | | | X | | | | | | |
| <i>Penstemon centranthifolius</i> | Scarlet Bugler | Perennial | | 3' x 2' | Sun | D | N/A | M | Y | | | | | | | | | | | X |
| <i>Penstemon heterophyllus 'Blue Springs'</i> | Foothill Penstemon | Perennial | | 2' x 1.5' | Sun | D | N/A | M | Y | | | | X | | X | X | X | | X | |
| <i>Phacelia californica</i> | Scorpion Flower | Wildflower | Slopes and Under Oaks, Good Habitat | 1' x 1.5' | Sun to Part Shade | D | L | M | Y | | | | | | | | | | X | |
| <i>Phlomis lanata</i> | Jerusalem Sage | Perennial Sub-Shrub | | 2' x 6' | Sun | E | L | M | N | Mediterranean | | | X | X | X | X | | | | |
| <i>Phormium tenax</i> | New Zealand Flax | Perennial | ? | 2' x 3' | Sun | E | L | M/H | N | New Zealand | | | | X | | X | X | | | |
| <i>Phylla nodiflora</i> | Lippia | Groundcover - herbaceous | | 0.4' x 2' | Sun to Part-Shade | E | N/A | M | N | Mediterranean | | | | | | | X | | | |
| <i>Physocarpus capitatus</i> | Ninebark | Shrub - tall | | 13' x 7' | Shade to Part-Sun | D | L | L | Y | | | | | | | | | | X | |
| <i>Podocarpus henkelii</i> | Long Leafed Yellowwood | Shrub - tall | | 30' x 25' | Sun to Part-Shade | E | M | L | N | Asia | | | | X | X | X | | | | |
| <i>Polypodium californicum</i> | Polypody Fern | Fern | Under Oaks, P. scouleri is also good species | 1' x 1' | Shade to Part-Sun | E | VL | L | Y | | | | | X | | | | | X | |

UNDERSTORY SPECIES PLANT LIST

| Latin Name | Common Name | Plant Type | Notes | Mature Size H' X W' | Sun / Shade | Evrgrn / Decid | WATER USE WUCOLS (San Jose)* | Salt Tolerance for RCW (H,M,L)** | Cali Native (Y/N) | Region of Origin (if not native to Cali) | TYPLOGIES | MAJOR STREETSCAPE | MINOR STREETSCAPE | PASEOS | PLAZAS | PASSIVE GREEN SPACE | PARKING LOT | RIPARIAN | SLOPE - BUFFER | BIORETENTION |
|--|------------------------|--------------------------------------|---|------------------------|-------------------|-------------------|--|---|-------------------------|---|-----------|-------------------|-------------------|--------|--------|---------------------|-------------|----------|----------------|--------------|
| <i>Polystichum munitum</i> | Western Sword Fern | Fern | Under Oaks | 2' x 2' | Shade | E | M | L | Y | | | | | X | X | X | | | | |
| <i>Prunus ilicifolia</i> | Holly Leaf Cherry | Shrub-tall | | 30' x 25' | Sun to Part-Shade | E | L | L | Y | | | | | | | | | | | |
| <i>Quercus berberidifolia</i> | Scrub Oak | Shrub - tall | Available at native plant nurseries, plant small | 15' x 12' | Sun to Part-Shade | E | VL | M | Y | | | | | | | | | X | X | |
| <i>Quercus durata</i> | Leather Oak | Shrub - tall | Available at native plant nurseries, plant small | 9' x 6' | Sun to Part-Shade | E | VL | M | Y | | | | | | | | | X | X | |
| <i>Ranunculus californicus</i> | California Buttercup | Herbaceous | Small, Can be added to Carex's in Bioswales | 3' x 3' | Sun to Part-Shade | D | VL | M | Y | | | | | | | | | | | X |
| <i>Rhamnus californica</i> | Coffeeberry | Shrub - med - tall | Eve Case', Mound San Bruno, Leather leaf, | 3-6' x 3-65' | Sun to Part-Shade | E | L | M | Y | | | | | X | | X | X | X | X | |
| <i>Rhus integrifolia (ovata)</i> | Lemonadeberry | Shrub - tall | | 25' x 25' | Sun | E | L | M | Y | | | | | | | | X | | X | |
| <i>Ribes aureum</i> | Golden Currant | Shrub - tall | | 3.5' x 3.5' | Shade | D | N/A | L | Y | | | | | | | X | | X | X | |
| <i>Ribes malvaceum</i> | Chaparral Currant | Shrub - tall | | 6' x 6' | Shade | D | VL | L | Y | | | | | | | X | | X | X | |
| <i>Ribes sanguineum glutinosum</i> | Pink -Flowered Currant | Shrub - tall upright | moderate maintenance | 12' x 12' | Sun to Part-Shade | D | L | L | Y | | | | | X | | X | | X | X | |
| <i>Ribes viburnifolium</i> | Evergreen Currant | Shrub - low | | 4' x 6' | Shade to Part-Sun | E | L | M | Y | | | | X | X | | X | | | | X |
| <i>Rosa californica</i> | California Wild Rose | Shrub | Spreads ! | 3' x 9' | Sun to Part-Shade | E | L | M | Y | | | | | | | | | X | X | |
| <i>Rosemarinus officinalis 'Huntington's Carpet'</i> | Creeping Rosemary | Groundcover - Woody | Mediterranean, Drought Tolerant, Low Maintenance | 1.5' x 1.5' | Sun to Part-Shade | E | L | M | N | Mediterranean | | X | X | | | X | X | | X | |
| <i>Rosmarinus officinalis 'Tuscan Blue'</i> | Rosemary | Shrub - med | Count | 4' x 2' | Sun to Part-Shade | E | L | M | N | Mediterranean | | | X | | | X | X | | X | |
| <i>Rubus parviflorus</i> | Thimbleberry | Vine - Shrub | Can be invasive | 8' x 6' | Sun to Part Shade | D | L | M | Y | | | | | | | | | | | X |
| <i>Salvia apiana</i> | White Sage | Perennial Sub-Shrub | | 4.5' x 4.5' | Sun | D | VL | M | Y | | | | | | | X | | | | X |
| <i>Salvia clevelandii</i> | Cleveland Sage | Perennial Sub-Shrub | | 4.5' x 4.5' | Sun to Part-Shade | E | L | M | Y | | | | | | | X | X | | | |
| <i>Salvia greggii</i> | Autumn Sage | Perennial Sub-Shrub | | 3' x 3' | Sun to Part-Shade | E | L | M/H | N | Mexico | | | X | X | X | | | | | |
| <i>Salvia leucophylla 'Bee's Bliss'</i> | Bee's Bliss Sage | Groundcover Shrub | | 2' x 8' | Sun | E | L | M | Y | | | X | | | | | X | | X | |
| <i>Salvia spathacea</i> | Hummingbird Sage | Groundcover Perennial | | 2' x 5' | Shade to Part-Sun | E | L | M | Y | | | | X | X | | X | | | | X |
| <i>Santolina chamaecyparissus</i> | Dwarf Lavender Cotton | Perennial - herbaceous | | 2' x 4' | Sun | E | L | H | N | Mediterranean | | X | | | | | | | | |
| <i>Satureja douglasii</i> | Yerba Buena | Perennial | | 0.5' x 0.5' | Shade to Part-Sun | E | L | M | Y | | | | | | | | | | | X |
| <i>Scrophularia californica</i> | Bee Plant | Perennial Sub-Shrub | | 4' x 12' | Partial | D | L | L | Y | | | | | | | | | | | X |
| <i>Sedum spp.</i> | Stonecrop | Groundcover Succulent - spreading | | up to 3' x 3' | Sun to Part-Shade | E | L | M | N | Mediterranean | | | | | | | | | | |

UNDERSTORY SPECIES PHOTOS: MAJOR STREETS

SHRUBS



VALLEY VIOLET MARITIME
CEANOTHUS
Ceanothus maritimus 'Valley Violet'



EMERALD CARPET
MANZANITA
Arctostaphylos 'Emerald Carpet'



PACIFIC MIST MANZANITA
Arctostaphylos 'Pacific Mist'



DWARF COYOTE BUSH
Baccharis pilularis 'Twin Peaks'



SAGELEAF ROCKROSE
Cistus salvifolius prostratus

GRASSES



MOOR GRASS
Sesleria autumnalis



DUNE SEDGE
Carex pansa



MEADOW SEDGE
Carex praegracilis



PINE MUHLY GRASS
Muhlenbergia dubia



Elijah Blue Fescue
Festuca glauca 'Elijah Blue'

FLOWERING PERENNIALS



WHITE YARROW
Achillea millefolium



FORTNIGHT LILY
Dietes iridoides



NAKED BUCKWHEAT
Eriogonum nudum



RED-FLOWERED
BUCKWHEAT
Eriogonum grande var. *rubescens*



Wall Germander
Teucrium chamaedrys

FLOWERING PERENNIALS



BLANKET FLOWER
Gaillardia grandiflora



STALKED BULBINE
Bulbine frutescens



DWARF LAVENDER COTTON
Santolina chamaecyparissus



CREeping SAGE
Salvia leucophylla 'Bee's Bliss'



BLUE-EYED GRASS
Syrinchium bellum

UNDERSTORY SPECIES PHOTOS: MINOR STREETS

LOW SHRUBS/GROUNDCOVERS



EVERGREEN CURRANT
Ribes Viburnifolium



PACIFIC MIST MANZANITA
Arctostaphylos
'Pacific Mist'



VALLEY VIOLET MARITIME
CEANOTHUS
Ceanothus maritimus 'Valley
Violet'



TRAILING ROSEMARY
Rosmarinus officinalis



COYOTE BUSH
Baccharis pilularis 'Pigeon
Point'

GRASSES



MOOR GRASS
Sesleria autumnalis



DUNE SEDGE
Carex pansa



MEADOW SEDGE
Carex praegracilis



PINE MUHLY GRASS
Muhlenbergia dubia



Elijah Blue Fescue
Festuca glauca 'Elijah Blue'

FLOWERING PERENNIALS



WHITE YARROW
Achillea millefolium



FOOTHILL PENSTEMON
Penstemon heterophyllus
'Blue Springs'



SANTA BARBARA DAISY
Erigeron karvinskianus



SEA PINK
Armeria maritima



HUMMINGBIRD SAGE
Salvia spathacea

HERBACEOUS GROUNDCOVERS



BUGLEHERB
Ajuga reptans



CREeping SAGE
Salvia sonomensis



WILD STRAWBERRY
Fragaria vesca

UNDERSTORY SPECIES PHOTOS: PASEO

SHRUBS



PINK -FLOWERED CURRANT
Ribes sanguineum glutinosum



EVERGREEN CURRANT
Ribes Viburnifolium



DWARF OLIVE
Olea europea 'Little Ollie'



LONG LEAFED YELLOWWOOD
Podocarpus henkelii



BUSH ANEMONE
Carpenteria californica

GRASSES, FERNS & VINES



MEADOW SEDGE
Carex praegracilis



DWARF SEDGE
Carex tumulicola (C. divulsa)



WHITE YARROW
Achillea millefolium



POLYPODY FERN
Polypodium californicum



JASMINE
Jasmine officinale f. grandiflorum

FLOWERING PERENNIALS



Hummingbird Sage
Salvia spathacea



CREeping OREGON GRAPE
Berberis aquifolium var. repens



JAPANESE ANEMONE
Anemone japonica



Canyon Snow Pacific Iris
Iris douglasiana x 'Canyon Snow'



ROCKROSE
Cistus ladanifer

FLOWERING PERENNIALS



ISLAND ALUMROOT
Heuchera maxima



COLUMBINE
Aquilegia formosa



SEA PINK
Armeria maritima



ROCK PURSLANE
Calandrinia Spp.



CRANESBILL
Geranium sanguineum

UNDERSTORY SPECIES PHOTOS: PLAZA

SHRUBS



VALLEY VIOLET
MARITIME CEANOTHUS
Ceanothus maritimus
'Valley Violet'



DWARF OLIVE
Olea europea 'Little
Ollie'



LONG LEAFED YELLOWWOOD
Podocarpus
henkelii

GRASSES



MEADOW SEDGE
Carex praegracilis



MOOR GRASS
Sesleria autumnalis



AEONIUM
Aeonium spp.



HENS AND CHICKS
Echeveria spp.

FLOWERING PERENNIALS



ALBUCA HUMILIS
Albica humilis



KANGAROO PAW
Anigozanthus spp.



BULBINE
Bulbine frutescens



ROCK PURSLANE
Calandrinia Spp.

FLOWERING PERENNIALS



FOOTHILL PENSTEMON
Penstemon hetero-
phyllus 'Blue Springs'



COAST ROSEMARY
Westringia fruticosa



WOOLLY BLUE CURLS
Trichostema lanatum



DE LA MINA LILAC
Verbena lilacina 'De La Mina'

UNDERSTORY SPECIES PHOTOS: PASSIVE GREEN SPACE

SHRUBS



RAY HARTMAN CALIFORNIA LILAC
Ceanothus 'Ray Hartman'



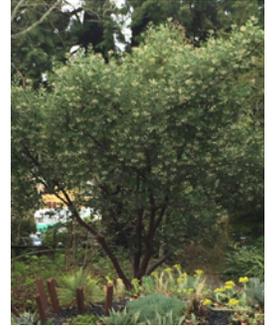
CALIFORNIA LILAC
Ceanothus thrysiflorus



TOYON
Heteromeles arbutifolia



WESTERN SPICE BUSH
Calycanthus occidentalis



ST HELENA MANZANITA
Arctostaphylos manzanita 'St Helena'

GRASSES



DWARF SEDGE
Carex tumulicola (C. divulsa)



DUNE SEDGE
Carex pansa



FEATHER REED GRASS
Calamagrostis x acutifolia 'Karl Foerster'



PINE MUHLY GRASS
Muhlenbergia dubia



DEERGRASS
Muhlenbergia rigens

FLOWERING PERENNIALS



CREeping OREGON GRAPE
Berberis aquifolium var. repens



CALIFORNIA BARBERRY
Berberis pinnata ssp. Insularis



FINGE CUPS
Tellima grandiflora



WALL GERMANDER
Tiarella cordifolia



SEA PINK
Armeria maritima

FLOWERING PERENNIALS



COREOPSIS
Coreopsis grandiflora



CALIFORNIA BUSH SUNFLOWER
Encelia Californica



APACHE PLUME
Fallugia paradoxa



WINNIFRED GILMAN CLEVELAND SAGE
Salvia clevelandii 'Winnifred Gilman'



HUMMINGBIRD SAGE
Salvia spathacea

UNDERSTORY SPECIES PHOTOS: PARKING LOTS

TALL SHRUBS



VALLEY VIOLET MARITIME
CEANOTHUS
Ceanothus maritimus
'Valley Violet'



EVE CASE COFFEEBERRY
Rhamnus californica
'Eve Case'



DWARF OLIVE
Olea europea 'Little
Ollie'



VINE HILL MANZANITA
Arctostaphylos
densiflora 'Howard
McMinn'

GROUNDCOVER SHRUBS



EMERALD CARPET
MANZANITA
Arctostaphylos
'Emerald Carpet'



PACIFIC MIST MANZANITA
Arctostaphylos 'Pacific Mist'



WARRIOR LYTLE
CALIFORNIA BACKWHEAT
Eriogonum fasciculatum
'Warriner Lytle'



POINT REYES CEANOTHUS
Ceanothus gloriosus

GRASSES



PINE MUHLY
Muhlenbergia dubia



DEERGRASS
Muhlenbergia rigens



MOOR GRASS
Sesleria autumnalis



TUFTED HAIR GRASS
Deschampsia cespitosa



DUNE SEDGE
Carex pansa

FLOWERING PERENNIALS



LIPPIA
Phylla nodiflora



SANTA BARBARA DAISY
Erigeron karvinski-
anus



WINNIFRED GILMAN
CLEVELAND SAGE
Salvia clevelandii
'Winnifred Gilman'



WOOLLY BLUE CURLS
Trichostema lanatum



WHITE YARROW
Achillea millefolium

UNDERSTORY SPECIES PHOTOS: BIORETENTION AND BIOSWALES

SHRUBS



DWARF COYOTE BUSH
Baccharis pilularis
'Twin Peaks'



WESTERN SPICE BUSH
Calycanthus occidentalis

GRASSES



BERKELEY SEDGE
Carex tumulicola



DEER GRASS
Muhlenbergia rigens



REED GRASS
Calamagrostis nutkaensis



DUNE SEDGE
Carex pansa



GREEN RUSH
Juncus effusus

FLOWERING PERENNIALS



WESTERN GOLDENTOP
Euthamia occidentalis



WHITE YARROW
Achillea millefolium



GUM WEED
Grindelia camporum



CALIFORNIA MILKWEED
Calochortus luteus



SHOWY MILKWEED
Asclepias speciosa

FLOWERING PERENNIALS



TALL FLATSEDGE
Cyperus ergagrostis



DOUGLAS IRIS
Iris douglasiana



SCARLET MONKEYFLOWER
Mimulus cardinalis



BLUEDICKS
*Dichelostemma capi-
tatum*



WAYNE RODERICK DAISY
Erigeron glaucus 'Wayne
Roderick'

UNDERSTORY SPECIES PHOTOS: RIPARIAN

SHRUBS



TOYON
Heteromeles arbutifolia



CALIFORNIA WILD ROSE
Rosa californica



CALIFORNIA COFFEEBERRY
Rhamnus californica



PINK-FLOWERED CURRANT
Ribes sanguineum glutinosum

GRASSES



TUFTED HAIR GRASS
Deschampsia cespitosa



DUNE SEDGE
Carex pansa



DWARF SEDGE
Carex tumulicola (C. divulsa)



DEERGRASS
Muhlenbergia rigens

FLOWERING PERENNIALS



COYOTE MINT
Monardella villosa



WHITE YARROW
Achillea millefolium



DEER WEED
Acmispon glaber



CALIFORNIA GOLDENROD
Solidago californica

FLOWERING PERENNIALS



CALIFORNIA BUSH
SUNFLOWER
Encelia Californica



NAKED BUCKWHEAT
Eriogonum nudum



SULFUR BUCKWHEAT
Eriogonum umbellatum



WESTERN GOLDENTOP
Euthamia occidentalis

UNDERSTORY SPECIES PHOTOS: LANDSCAPE BUFFER / SLOPES

SHRUBS



HOOKER MANZANITA
Arctostaphylos hookeri



PACIFIC MIST MANZANITA
Arctostaphylos 'Pacific Mist'



BAKERS MANZANITA
Arctostaphylos bakeri 'Louis Edmunds'



RAY HARTMAN CALIFORNIA LILAC
Ceanothus 'Ray Hartman'



CALIFORNIA LILAC
Ceanothus thyrsiflorus

GRASSES



PURPLE NEEDLE GRASS
Stipa pulchra



ALKALI SACATON
Sporobolus airoides



CANYON PRINCE WILDRYE
Leymus condensatus 'Canyon Prince'



PINE MUHLY GRASS
Muhlenbergia dubia



CREEPING WILDRYE
Elymus triticoides

FLOWERING PERENNIALS



CALIFORNIA BARBERRY
Berberis pinnata ssp. Insularis



WESTERN GOLDENTOP
Euthamia occidentalis



CREEPING OREGON GRAPE
Mahonia repens



STICKY MONKEY FLOWER
Mimulus auranticus



INDIAN MALLOW
Abutilon palmeri

FLOWERING PERENNIALS



TRAILING ROSEMARY
Rosmarinus officinalis



FOOTHILL PENSTEMON
Penstemon heterophyllus 'Blue Springs'



CREEPING SAGE
Salvia leucophylla 'Bee's Bliss'



HUMMINGBIRD SAGE
Salvia spathacea



Valley Violet *Ceanothus Ceanothus maritimus 'Valley Violet'*



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