# PORTOLA CENTER AREA PLAN

# CHAPTER EIGHT

## LANDSCAPE DESIGN GUIDELINES

- 8.1 LANDSCAPE DESIGN PHILOSOPHY
- 8.2 LANDSCAPE THEME AND FRAMEWORK
- 8.3 LANDSCAPE CONCEPT PLAN AND PLANT PALETTES
- 8.4 COMMUNITY OPEN SPACE PLAN

### 8.1 LANDSCAPE DESIGN PHILOSOPHY

The purpose of the Portola Center Landscape Design Guidelines and Concept Plan is to enhance and unify the Portola Center Community through a cohesive landscape plan.

The Portola Center Landscape Concept Plan establishes the major landscape theme for the Portola Center Community at a conceptual level, addressing the Saddleback Ranch Road and Glenn Ranch Road corridors and intersection, streets within the Planning Areas, Project entries, open space areas slopes, neighborhood parks, and the individual neighborhoods. The proposed landscape buffers between the Project's neighborhoods and surrounding uses, the creation of landscaped medians within the existing un-landscaped Glenn Ranch Road and Saddleback Ranch Road Right-of-ways, the enhanced landscape and circulation designs for the primary and secondary Project entry-points, and the landscape slopes, green spaces, distributed parks, and the landscaped parkways internal and throughout the Project collectively reinforce the Project's community design theme.

The Landscape Concept Plan serves as the landscape design framework for the Community from which more detailed precise landscape plans will follow. The purpose of the Landscape Concept Plan is to: 1) establish thematic color schemes to develop the Project identity; 2) establish a hierarchy of landscaping, from the Primary Community Entries down through the internal residential streets; 3) thematically tie the individual major elements of the Project's land use framework together; 4) visually emphasize the key project amenities like parks, park and trail amenities, pedestrian pathways, project entries, primary corridors, and other activity areas; and 5) blend the Project's exterior landscape areas with the Project's residential neighborhoods and the residential neighborhoods with the surrounding natural open space using transitional landscapes. Accordingly, the Portola Center Landscape Concept should incorporate the following design objectives:

- Implement a design approach that blends plant and tree species to establish a sense of permanence in the community with flowering annuals and perennials with seasonal characteristics.
- Utilize trees as a dominant thematic element used to create a logical sense of order, continuity, and contrast throughout the community.
- Utilize, where feasible and consistent with water-efficient landscape requirements, low-water use plant materials appropriate for the site's climactic conditions and water efficient grasses to reduce the high water use turf in areas that are not used for active recreation.
- Utilize trees that provide filtered shade while maintaining a semitransparent view of the architectural features.
- Create a series of horizontal landscape planes through the use of canopy trees, shrub forms, and accent colors to reflect the architectural forms.
- Utilize landscape form and composition to direct and guide residents and visitors to residential neighborhoods and activity areas, to create focal points, and to emphasize view corridors for travelers as they move through the community.
- Incorporate hardscape features, such as decorative walls, signs, and monuments into landscape areas.
- Utilize Vertical elements, such as narrow trees and decorative fencing and lighting, to contrast long architectural planes.
- Create a community that is in visual harmony with the surrounding natural environment, provides shade and natural cooling benefits, and includes the use of shrubs and ground covers to create landscape layers
- Utilize color variations from plant foliage, bark and flowers that create a friendly, warm and visually exciting landscape environment.
- Utilize landscaping to soften the visual effect of retaining walls, community walls, and other features of the built environment that are visually sensitive such as trash enclosures and parking areas.

## 8.2 LANDSCAPE THEME AND FRAMEWORK

The Landscape theme for Portola Center is a unique blend of California native & naturalized plant materials on the perimeter & main thoroughfares, with a Mediterranean influence within the project's interior. The goal for the perimeter slopes is to provide a subtle transition between the adjacent hillsides and the projects interior slopes by utilizing native Coast Live Oaks, Catalina Cherry, Mexican Elderberry, Toyon, Lemonade Berry, Rock Rose and many other species. Additional vibrant and water efficient material accentuate entries and other key areas along the main thoroughfares and the perimeter trail system. The framework for the Portola Center Landscape Plan is structured around four major areas of landscape design which are further subdivided into 10 individualized landscape focus areas, each with overlapping but distinct landscape palettes (Exhibit 8-1). The four major design areas of the landscape plan framework are the following:

- 1. Glenn Ranch Road/Saddleback Ranch Road Intersection & Community Entries
- 2. Glenn Ranch Road and Saddleback Ranch Road View Corridors
- 3. Internal Project Areas (Internal Streets, Neighborhoods, Interior Slopes and Parks)
- 4. Perimeter Areas & Fuel Modification Zones

The landscape design approach is intended to create transitions between the four major areas identified above. Exhibit 8-1 above shows the four major design elements of the Project's Landscape Plan. Following is a more detailed description of each of the four elements. The various Landscape Plant Palettes for these areas can be found in Section 8.3.

### 8.2.1 COMMUNITY ENTRIES

Two arterials bisect the Project site into three different planning areas, Glenn Ranch Road and Saddleback Ranch Road. These two streets form an intersection that severs as the entry point into the existing Portola Hills Community and as the Primary Project Entry into the Portola South Planning Area. As the focal point of the Project and the entryway into the two communities, the intersection should serve as the pinnacle of the Project's landscape hierarchy with the most order, complexity, variety, and ornateness of any of the Project's individualized landscape areas. It should serve as the culmination of the Project's landscape and architectural themes from which the rest of the Project's design elements and transportation and land uses logically flow.

#### 8.2.2 GLENN RANCH ROAD & SADDLEBACK RANCH ROAD VIEW CORRIDORS

Glenn Ranch Road and Saddleback Ranch serve as major corridors for both Portola Hills and Portola Center. These corridors will include median, parkway, and slope landscape areas. The landscape design for these corridors should radiate out from their intersection and the Project's pinnacle with an overlapping but less complex transitional landscape palette. The Project's three secondary entries—entry into the Northwest, Northeast, and the east entry into the South Planning Areas—should ramp up to a more complex and defining landscape palette that blends with the palette of the arterial corridors as well as incorporates neighborhood entry monumentation and a higher level of plant palette complexity, ornateness, and order.

#### 8.2.3 INTERNALSTREETS, PROJECT NEIGBHORHOODS, INTERIOR SLOPES, & AMENITIES

The internal streets and parkways, neighborhoods, interior slopes, and amenities like parks, pedestrian pathways, activity centers, and trails should maintain a consistent landscape theme throughout with the streets, parkways, and pedestrian pathways exhibiting more trees and orderly arrangements of the landscape palettes and the parks and community open space areas serving as landscape focal points with plant palettes that serve both beautification and functional purposes, such as complementing recreation and passive enjoyment in the parks (e.g., grass fields and shade areas) and accenting and visual separation of neighborhoods in the community open space and interior slope areas. These areas of the Project will utilize overlapping plant and trees species found in the community entries and public corridor areas, however these areas will generally be less complex and ornate than the more public areas of the Project. In many cases, the functionality of the landscape will serve as a primary driver of its complexity and character.



## 8.2.4 PERIMETER AREAS & FUEL MODIFICATION ZONES

The Project's perimeter areas primarily support the fuel modification zones. These zones are surrounded by natural open space that is characterized by its native habitat, including sage brush, chaparral, dry grasslands, and cactus scrub, and its steep and hilly terrain. The habitat in these natural areas is a mixture of olive, sage, brown, and yellow hues that are reminiscent of the relatively dry, Mediterranean climate that dominates Southern California. Accordingly, the landscape palette for the fuel modification zones needs to accomplish three major objectives: (1) the plant materials need to possess a low fuel load content (i.e., low probability of flammability) and comply with the Orange County Fire Authority's Prohibited Plant List for FMZ Areas; (2) the plant materials need to visually blend with the natural habitat surrounding the Project site; and (3) the plant materials need to be non-invasive species that are easy to maintain and do not contribute to open space preserve "edge effects" such as weeds or pests.

## 8.3 LANDSCAPE CONCEPT PLAN AND PLANT PALETTES

The Portola Center Landscape Concept Plans are shown in Exhibits 8-2 and 8-3. The Plans are comprised of 10 different planned landscape areas and an 11<sup>th</sup> natural open space area which are shown on the Landscape Concept Plans and include the following:

- 1. Glenn Ranch Road and Saddleback Ranch Road
- 2. Primary Community Entry
- 3. Secondary Community Entry
- 4. Interior Residential Streets & Alleys
- 5. Residential Neighborhoods and Mixed Use Center
- 6. Interior Parks
- 7. Perimeter Parks (Adjacent to Perimeter Open Space)
- 8. Interior Slopes & Planted Walls
- 9. Transitional Slopes and Planted Walls
- 10. Naturalized Perimeter Slopes
- 11. Natural Open Space Areas

Detailed Plant Palettes are provided in Table 8-1 for 11 different landscape areas. The 11<sup>th</sup> Area, "Natural Open Space Areas", includes areas onsite that will be left in their natural condition but will be subject to fuel modification. The design theme is established in the architectural elevations and design elements of the buildings and embodied in the Plant Palettes for the Project's landscape areas. The plant palettes provide a list of plant material to select from when designing the landscape for these areas. However, substitutions may be required due to plant material availability, soils test results, or other considerations.

Plant materials in the Naturalized Perimeter Slopes have been selected for their ability to merge into the existing natural environment without being invasive, and for their tolerance to drought and low water use irrigation. In addition, planting in the Fuel Modification Zones (FMZs) along the perimeter of the Project will comply with the Orange County Fire Authority (OCFA) planting and irrigation requirements and restrictions for FMZs (Guideline C-05 for Fuel Modification).



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## Table 8-1: Portola Center Landscape Plan Palettes

## Area 1: Glenn Ranch Road & Saddleback Road

## Glenn Ranch Road Parkway & Median Tree:

Quercus ilex, Holly Oak

## Saddleback Road Parkway & Median Tree:

Lophostemon confertus, Brisbane Box





## Parkway & Median Shrubs & Ornamental Grasses such as:

Aloe Vera\*, Medicinal Aloe Carex pansa, California Meadow Sedge (See Note #4) Festuca mairei, Mare's Bunch Grass Hesperaloe parviflora 'Brakelights'\*, Mountain States Red Yucca Limonium perezii\*\*\*, Sea Lavender (See Note #4) Salvia mellifera 'Tera Seca', Tera Seca Sage

## **Slope Trees**

Cercis occidentalis\*, Western Redbud Lophostemon confertus, Brisbane Box Plantanus racemosa\*, California Sycamore (See Note #1) Prunus ilicifolia lyonii\*, Catalina Cherry Quercus agrifolia\*, Coast Live Oak Rhus lancea\*\*, African Sumac Sambacus mexicana\*, Mexican Elderberry





Slope Large Shrubs, (Used in limited quantities) Echium fastuosum, Pride of Madeira Fremontodentron californica 'California Glory'\*, California Flannelbush Heteromeles arbutifolia\*\*, Toyon Rhus integrifolia\*, Lemonade Berry Rhus ovata\*\*, Sugarbush Ribes viburnifolium\*, Evergreen Currant

## Slope Sprawling Shrubs, Vines, Low Shrubs, Groundcovers, Succulents & Cacti

Acacia redolens Desert Carpet'\*\*, Desert Carpet Agave attenuata\*, Century Plant Archtostapylos hiikeri 'Monterey Carpet' Manzanita\* Baccharis pilularis 'Twin Peaks 2'\*\*\*, Dwarf Coyote Bush Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Ceanothus horizontalis 'Yankee Point' Creeper\* Cistus hybridus\*, White Rock Rose Cistus 'Sunset', Rock Rose Clematis pauciflora, Ropevine Coprosma x kirkii\*, Creeping Mirror Plant Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Keckiella cordifolia\*, Heart-Leaved Penstemon Kniphofia uvaria\*, Red Hot Poker Limonium perezii\*\*\*, Sea Lavender (See Note #4) Mimulus aurantiacus\*, Sticky Monkey Flower Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Opuntia littoralis\*, Coastal Prickly Pear Cactus Salvia snomensis\*, Creeping Sage Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii\*, Nightshade Yucca schidigera\*, Mojave Yucca Yucca whipplei\*, Foothill Yucca



# Area 1: Glenn Ranch Road & Saddleback Road (Continued...)

## **Slope Restoration Hydroseed Mix:**

Camissonia cheiranthifolia\*, Beach Primrose Encelia californica\*, Coast Sunflower Eriophyllum confertiflorum\*, Golden Yarrow Eschscholzia maritima\*, California Poppy Heliathemum scoparium\*, Rush Rose Lasthenia californica\*, California Goldfields Lotus hamatus, San Diego Bird's Foot Trefoil Lupinus nanus, Dwarf Lupine Plantago erecta\*, California Plantain Trifolium gracilentum, Pinpoint Clover



### **Planted Retaining Wall Sprawling Shrubs & Vines**

Acacia redolens Desert Carpet'\*\*, Desert Carpet Antigonon leptopus, San Miguel Coral Vine Baccharis pilularis 'Twin Peaks 2'\*\*\*, Dwarf Coyote Bush Calystegia macrostegia, Island Morning Glory Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Clematis lasiantha, Pipestream Clematis Clematis pauciflora, Ropevine Coprosma x kirkii\*, Creeping Mirror Plant Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Keckiella cordifolia\*, Heart-Leaved Penstemon Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii\*, Nightshade Vitis girdiana\*\*\*, Desert Wild Grape





## Planted Retaining Wall Hydroseed Mix:

Camissonia cheiranthifolia\*, Beach Primrose Eriophyllum confertiflorum\*, Golden Yarrow Lasthenia californica\*, California Goldfields Lotus purshianus, Spanish Clover Lotus salsuginosus, Coastal Bird's Foot Trefoil Lotus scoparius\*, Deerweed Mimulus aurantiacus\*, Sticky Monkey Flower Plantago erecta\*, California Plantain Sisyrinchium bellum\*, Blue-Eyed Grass Trifolium willdenovii, Tomcat Clover

## Areas 2 & 3: Project Entries

## Primary Community Entry - Featured Specimen Tree:

(Glenn Ranch Road at Saddleback Ranch Road) Quercus agrifolia 'Multi-Trunk', Coast Live Oak

## Secondary Neighborhood Entry Trees:

Cupressus sempervirens Strica, Italian Cypress (See Note #6) Olea europea 'Wilsoni', Fruitless Olive Tree Phoenix dactylifera 'Medjool', Medjool Date Palm (See Note #3)



# Areas 2 & 3: Project Entries (Continued...)

### Shrubs, Ornamental Grasses & Groundcovers such as, but not limited to:

Aloe Vera, Medicinal Aloe Anigozanthos hybrids, Kangaroo Paw Bougainvillea species, Prostrate Bougainvillea Callistemon citrinus 'Compact', Dwarf Lemon Bottlebrush Dianella species, Flax Lily Echium fastuosum, Pride of Madeira (See Note #4) Festuca mairei, Mare's Bunch Grass Hesperaloe parviflora 'Brakelights', Mountain States Red Yucca Lantana montevidensis, Lantana Phormium species, Flax Rosmarinus officinalis, Rosemary



## **Areas 4: Interior Residential Streets & Alleys**

Where residential streets are adjacent to native or naturalized open-space areas: Quercus ilex, Holly Oak

## Residential streets within the internal streets trees such as, but not limited to:

Laurus nobils 'Saratoga', Sweet Bay Agonis flexuosa, Peppermint Tree Arbutus 'Marina', Marina Arbutus Cupaniopsis anacardioides, Carrotwood Geijera parviflora, Australian Willow Lagerstromia inidica, Crape Myrtle Lophostemon confertus, Brisbane Box Melaleuca linarifolia, Flax Leaf Paper Bark Metrosideros excelsa, New Zealand Christmas Tree Pittosporum undulatum , Victorian Box Podocarpus gracilior , Fern Pine Rhus lancea, African Sumac ' Sapium sebiferum, Chinese Tallow Tree (See Note #4 Ulmus parvifolia 'True Green', Evergreen Elm



## Parkway & Alley Shrubs, Ornamental Grasses & Groundcovers such as, but not limited to:



Agapanthus 'Rancho White', White Flowering Lily-of-the-Nile Agapanthus africanus, Lily-of-the-Nile Anigozanthos hybrids, Kangaroo Paw Callistemon citrinus Compacta, Dwarf Lemon Bottlebrush Carex pansa, California Meadow Sedge (See Note #4) Carissa macrocarpa Green Carpet, Prostrate Natal Plum Dianella species, Flax Lily Festuca glauca, Blue Fescue Ligustrum japonicum 'Texanum', Japanese Privet Limonium perezii, Sea Lavender (See Note #4) Myoporum parvifolium Putah Creek, No Common Name (See Note #5) Phormium tenax 'Jack Spratt', Dwarf Flax Rhaphiolepis indica, India Hawthorn Rosmarinus officinalis 'Huntington Carpet', Rosemary Senecio mandraliscae, Kleinia

## Area 5: On-Site Interior Development (Single-Family Residential, Multi-family & Mixed-Use Lots)

## Trees such as, but not limited to:

Arbutus 'Marina', Marina Arbutus Brachychiton populneus, Bottle Tree Chorisia speciosa, Floss Silk Tree Cupressus sempervirens 'Stricta', Italian Cypress (See note #6) Ficus robiginosa, Rustyleaf Fig Geijera parviflora, Australian Willow Jacaranda mimisifolia, Jacaranda Koelreuteria bippinata, Chinese Flame Tree Lagerstromia inidica, Crape Myrtle Laurus nobils 'Saratoga', Sweet Bay Lophostemon confertus, Brisbane Box





Metrosideros exelsus, New Zealand Christmas Tree Olea europea Wilsoni, Fruitless Olive Tree Phoenix dactylifera 'Medjool', Medjool Date Palm (See Note #3) Phoenix reclinata , Senegal Date Palm (See Note #3) Pittosporum undulatum, Victorian Box Podocarpus gracilior , Fern Pine Rhus lancea, African Sumac Sapium sebiferum, Chinese Tallow Tree (See Note #4)

## Shrubs, Ornamental Grasses & Groundcovers such as, but not limited to:

Agapanthus 'Rancho White', White Lily-of-the-Nile Agapanthus africanus, Lily-of-the-Nile Aloe species, Aloe Bougainvillea species, Bougainvillea Buxus microphylla 'Green Beauty', Dwarf Boxwood Callistemon citrinus Compacta, Dwarf Lemon Bottlebrush Carex pansa, California Meadow Sedge (See Note #4) Carissa macrocarpa 'Green Carpet', Prostrate Natal Plum Ceanothus species, Carmel Creeper Chamaerops humillis, Mediterranean Fan Palm Cistus 'Sunset', Rock Rose Cycas revoluta, Sago Palm Dianella species, Flax Lily Dietes bicolor, Fortnight Lily Echium fastuosum, Pride of Madeira (See Note #4) Festuca glauca, Blue Fescue Lantana montevidensis, Lantana Lavendula species, Lavender Ligustrum japonicum 'Texanum', Texas Privet Limonium perezii, Sea Lavender - See Note #4) Myoporum parvifolium Putah Creek (See Note #5) Myrtus species, Myrtle Nandina domestica, Heavenly Bamboo Phoneix roebelenii, Pigmy Date Palm Phormium species, Flax Phormium tenax 'Jack Spratt', Dwarf Flax

## **Active Recreational Grass:**

Marathon 2e, Dwarf Tall Fescue (See Note #2)

Pittosporum tobira 'Wheelers Dwarf', Dwarf Tobira Pittosporum tobira, Common Tobira Rosa species, Rose Rosmarinus officinalis, Rosemary Salvia mellifera 'Tera Seca', Tera Seca Sage Strelitzia nicolia, Giant Bird of Paradise Strelitzia reginae, Bird of Paradise Trachelospermum jasminoides, Star Jasmine Trachycarpus fortunei, Windmill Palm Xyosma congestum, Shiny Xylosma Zamia furfuracea, Cardboard Palm



## **Area 6: Interior Parks** (Where not adjacent to perimeter open-space areas)



### Trees such as, but not limited to:

Ficus robiginosa, Rustyleaf Fig Jacaranda mimisifolia, Jacaranda Lophostemon confertus, Brisbane Box Metrosideros exelsus, New Zealand Christmas Tree Olea europea 'Wilsoni', Fruitless Olive Tree Phoenix dactylifera 'Medjool', Medjool Date Palm (See Note #3) Plantanus racemosa, California Sycamore Quercus agrifolia, Coast Live Oak Rhus lancea, African Sumac

## Shrubs, Ornamental Grasses & Groundcovers such as, but not limited to:

Agapanthus africanus, Lily-of-the-Nile Agapanthus 'Rancho White', White Lily-of-the-Nile Aloe species, Aloe Bougainvillea species, Bougainvillea Callistemon citrinus 'Compacta', Dwarf Lemon Bottlebrush Carex pansa, California Meadow Sedge (See Note #4) Carissa macrocarpa 'Green Carpet', Prostrate Natal Plum Ceanothus species, Carmel Creeper Chamaerops humillis, Mediterranean Fan Palm Cistus 'Sunset', Rock Rose Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Dianella caerula 'Little Becca', Little Becca Flax Lily Dianella caerula 'Tasred', Tasred Flax Lily Dietes bicolor, Fortnight Lily





Echium fastuosum, Pride of Madeira (See Note #4) Lantana montevidensis, Lantana Ligustrum japonicum 'Texanum', Texas Privet Limonium perezii, Sea Lavender (See Note #4) Myoporum parvifolium 'Putah Creek', No Common Name (See Note #5) Nandina domestica, Heavenly Bamboo Phoneix roebelenii, Pigmy Date Palm Phormium species, Flax Phormium tenax 'Jack Spratt', Dwarf Flax Pittosporum tobira 'Wheelers Dwarf', Dwarf Tobira Pittosporum tobira, Common Tobira Rosmarinus officinalis, Rosemary Salvia mellifera 'Tera Seca', Tera Seca Sage Strelitzia nicolia, Giant Bird of Paradise

Active Recreational Grass: Marathon 2e, Dwarf Tall Fescue (See Note #2)



## Area 7: Perimeter Parks (Where adjacent to perimeter open-space area)

## Trees such as, but not limited to:

Arbutus unedo\*, Strawberry Tree Ceratonia siliqua\*, Carob Tree Lophostemon confertus, Brisbane Box Metrosideros exelsus\*\*, New Zealand Christmas Tree Plantanus racemosa\*, California Sycamore (See Note #1) Quercus agrifolia\*, Coast Live Oak Rhus lancea\*\*, African Sumac



## Shrubs, Ornamental Grasses & Groundcovers such as, but not limited to:



Acacia redolens Desert Carpet'\*\*\*, Desert Carpet Agapanthus africanus, Lily-of-the-Nile Agave attenuata\*, Century Plant Aloe Vera\*, Medicinal Aloe Baccharis pilularis 'Twin Peaks 2\*\*\*, Dwarf Coyote Bush Carex pansa, California Meadow Sedge (See Note #4) Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Ceanothus horizontalis 'Yankee Point'\*, Yankee Point Creeper Cistus 'Sunset', Rock Rose Cistus hybridus\*, White Rock Rose Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Dianella species, Flax Lily Dietes bicolor, Fortnight Lily

Festuca mairei, Mare's Bunch Grass Hesperaloe parviflora 'Brakelights'\*, Mountain States Red Yucca Kniphofia uvaria\*, Red Hot Poker Limonium perezii\*\*\*, Sea Lavender (See Note #4) Mimulus aurantiacus\*, Sticky Monkey Flower Myoporum parvifolium 'Putah Creek'\*, (See Note #5) Phormium tenax 'Jack Spratt', Dwarf Flax Rosmarinus officinalis\*\*\*, Rosemary Salvia snomensis\*, Creeping Sage Yucca schidigera\*, Mojave Yucca Yucca whipplei\*, Foothill Yucca





## Slope Restoration Hydroseed Mix:

Camissonia cheiranthifolia\*, Beach Primrose Eschscholzia maritima\*, California Poppy Lasthenia californica\*, California Goldfields Lotus hamatus, San Diego Bird's Foot Trefoil Lupinus nanus, Dwarf Lupine Plantago erecta\*, California Plantain Trifolium gracilentum, Pinpoint Clover

## **Area 8: Interior Slopes & Planted Walls**

(Those slopes not adjacent to Glenn Ranch Road, Saddleback Ranch Road or the project perimeter)

### Trees such as, but not limited to:

Acacia baileyana, Bialey Acacia Arbutus unedo\*, Strawberry Tree Cercis occidentalis\*, Western Redbud Jacaranda mimisifolia, Jacaranda Lophostemon confertus, Brisbane Box Prosopis chilensis, Chilean Mesquite Prunus ilicifolia Iyonii\*, Catalina Cherry Quercus agrifolia\*, Coast Live Oak Rhus Iancea\*\*, African Sumac Umbellularia californica\*, California Bay Laurel



Slope Large Shrubs, (Used in limited quantities) Echium fastuosum, Pride of Madeira Heteromeles arbutifolia\*\*, Toyon Phormium species, (Flax) Rhus integrifolia\*, Lemonade Berry Rhus ovata\*\*, Sugarbush Sambucus species\*, Elderberry



## Slope Sprawling Shrubs, Vines, Low Shrubs, Groundcovers, Succulents & Cacti



Acacia redolens Desert Carpet'\*\*, Desert Carpet Agave attenuata\*, Century Plant Baccharis pilularis 'Twin Peaks 2'\*, Dwarf Coyote Bush Bougainvillea species\*\*, Prostrate Bougainvillea Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Ceanothus horizontalis 'Yankee Point'\*, Yankee Point Creeper Cistus 'Sunset', Rock Rose Coprosma x kirkii\*, Creeping Mirror Plant Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Lantana montevidensis\*, Lantana Limonium perezii\*\*\*, Sea Lavender (See Note #4) Mimulus aurantiacus\*, Sticky Monkey Flower Myoporum parvifolium 'Putah Creek'\*, No Common Name (See Note #5) Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Rosmarinus officinalis "Huntington Carpet'\*\*\*, Prostrate Rosemary Senecio mandraliscae, Kleinia Tecomaria capensis\*, Cape Honeysuckle

#### Slope Restoration Hydroseed Mix:

Camissonia cheiranthifolia\*, Beach Primrose Encelia californica\*, Coast Sunflower Eriophyllum confertiflorum\*, Golden Yarrow Eschscholzia maritima\*, California Poppy Heliathemum scoparium\*, Rush Rose Lasthenia californica\*, California Goldfields Lotus hamatus, San Diego Bird's Foot Trefoil Lupinus nanus, Dwarf Lupine Plantago erecta\*, California Plantain Trifolium gracilentum, Pinpoint Clover



# Area 8: Interior Slopes & Planted Walls (Continued...)

## **Planted Retaining Wall Sprawling Shrubs & Vines**

Acacia redolens Desert Carpet'\*, Desert Carpet Antigonon leptopus, San Miguel Coral Vine Baccharis pilularis 'Twin Peaks 2'\*, Dwarf Coyote Bush Bougainvillea species\*, Prostrate Bougainvillea Calystegia macrostegia, Island Morning Glory Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Ficus pumila, Creeping Fig Lantana montevidensis\*, Lantana Lonicera japonica 'Halliana'\*\*\*, Hall's Honeysuckle Myoporum parvifolium 'Putah Creek'\*, No Common Name (See Note #5) Vitis girdiana\*, Desert Wild Grape





## **Planted Retaining Wall Hydroseed Mix:**

Camissonia cheiranthifolia, Beach Primrose Eriophyllum confertiflorum, Golden Yarrow Lasthenia californica, California Goldfields Lotus purshianus, Spanish Clover Lotus salsuginosus, Coastal Bird's Foot Trefoil Lotus scoparius, Deerweed Mimulus aurantiacus, Sticky Monkey Flower Plantago erecta, California Plantain

## **Area 9: Transition Slopes & Planted Walls** Within the Fuel Modification Zones

## **Slope Trees**

Cercis occidentalis\*, Western Redbud Plantanus racemosa\*, California Sycamore (See Note #1) Prunus ilicifolia Iyonii\*, Catalina Cherry Quercus agrifolia\*, Coast Live Oak Rhus lancea\*\*, African Sumac Sambacus mexicana\*, Mexican Elderberry





Slope Large Shrubs, (Used in limited quantities) Echium fastuosum, Pride of Madeira Fremontodentron californica 'California Glory'\*, California Flannelbush Heteromeles arbutifolia\*\*, Toyon Rhus integrifolia\*, Lemonade Berry Rhus ovata\*\*, Sugarbush Ribes viburnifolium\*, Evergreen Currant Sambucus species\*, Elderberry

## Shrubs, Vines, & Groundcovers such as, but not limited to:

Agave attenuata\*, Century Plant Archtostapylos hiikeri 'Monterey Carpet'\*, Monterey Carpet Manzanita Baccharis pilularis 'Twin Peaks 2'\*\*\*, Dwarf Coyote Bush Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Ceanothus horizontalis 'Yankee Point'\*, Yankee Point Creeper Clematis pauciflora, Ropevine Coprosma x kirkii\*, Creeping Mirror Plant Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster



## Portola Center Area Plan

# Area 9: Transition Slopes & Planted Walls (Continued...)

### Shrubs, Vines, & Groundcovers such as, but not limited to:



Keckiella cordifolia\*, Heart-Leaved Penstemon Kniphofia uvaria\*, Red Hot Poker Mimulus aurantiacus\*, Sticky Monkey Flower Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Opuntia littoralis\*, Coastal Prickly Pear Cactus Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii\*, Nightshade Vitis californica\*, California Wild Grape Yucca schidigera\*, Mojave Yucca Yucca whipplei\*, Foothill Yucca





#### Slope Restoration Hydroseed Mix:

Camissonia cheiranthifolia\*, Beach Primrose Encelia californica\*, Coast Sunflower Eriophyllum confertiflorum\*, Golden Yarrow Eschscholzia maritima\*, California Poppy Heliathemum scoparium\*, Rush Rose Lasthenia californica\*, California Goldfields Lotus hamatus, San Diego Bird's Foot Trefoil Lupinus nanus, Dwarf Lupine Plantago erecta\*, California Plantain Trifolium gracilentum, Pinpoint Clover

### **Planted Retaining Wall Sprawling Shrubs & Vines**

Baccharis pilularis 'Twin Peaks 2'\*\*\*, Dwarf Coyote Bush Calystegia macrostegia, Island Morning Glory Ceanothus gloriosus 'Point Reyes'\*, Point Reyes Creeper Clematis lasiantha, Pipestream Clematis Clematis pauciflora, Ropevine Coprosma x kirkii\*, Creeping Mirror Plant Cotoneaster dammeri 'Lowfast', Bearberry Cotoneaster Keckiella cordifolia\*, Heart-Leaved Penstemon Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii\*, Nightshade Vitis girdiana\*\*\*, Desert Wild Grape





### Planted Retaining Wall Hydroseed Mix:

Achillea millefolium, Common Yarrow Camissonia cheiranthifolia, Beach Primrose Clarkia bottae, Punchbowl Godetia Eriophyllum confertiflorum, Golden Yarrow Eschscholzia californica, Golden Poppy Lasthenia californica, California Goldfields Lotus scoparius, Deerweed Melica imperfecta, Smallflower Melic Mimulus aurantiacus, Sticky Monkey Flower



## **Area 10: Naturalized Perimeter Slopes**



### Trees such as, but not limited to:

Cercis occidentalis\*, Western Redbud Prunus ilicifolia Iyonii\*, Catalina Cherry Quercus agrifolia\*, Coast Live Oak

**Slope Large Shrubs,** (Used in limited quantities) Sambacus mexicana\*, Mexican Elderberry Fremontodentron californica 'California Glory'\*, California Flannelbush Ribes viburnifolium\*, Evergreen Currant Sambucus species\*, Elderberry

### Shrubs, Vines & Groundcovers such as, but not limited to:

Agave attenuata\*, Century Plant Baccharis pilularis 'Twin Peaks 2'\*, Dwarf Coyote Bush Clematis pauciflora, (Ropevine) Coprosma x kirkii\*, Creeping Mirror Plant Keckiella cordifolia\*, Heart-Leaved Penstemon Kniphofia uvaria\*, Red Hot Poker Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Opuntia littoralis\*, Coastal Prickly Pear Cactus Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii\*, Nightshade Vitis californica\*, California Wild Grape Yucca schidigera\*, Mojave Yucca Yucca whipplei\*, Foothill Yucca



#### **Slope Restoration Hydroseed Mix:**



Achillea millefolium, Common Yarrow Clarkia bottae, Punchbowl Godetia Encelia californica, Coast Sunflower Eriophyllum confertiflorum, Golden Yarrow Eschscholzia californica, Golden Poppy Lasthenia californica, California Goldfields Lotus scoparius, Deerweed Melica imperfecta, Smallflower Melic Mimulus aurantiacus, Sticky Monkey Flower Nassella pulchura, Purple Needle Grass Sisyrinchium bellum, Blue-Eyed Grass Vulpia microstachys, Small Fescue

#### Planted Retaining Wall Sprawling Shrubs & Vines

Baccharis pilularis 'Twin Peaks 2'\*, Dwarf Coyote Bush Calystegia macrostegia, Island Morning Glory Clematis lasiantha, Pipestream Clematis Clematis pauciflora, Ropevine Coprosma x kirkii\*, Creeping Mirror Plant Keckiella cordifolia\*, Heart-Leaved Penstemon Oenothera speciosa 'Rosea'\*, Pink Evening Primrose Sarcostemma cynanchoides, Climbing Milkweed Solanum xantii, Nightshade Vitis girdiana\*, Desert Wild Grape



# Area 10: Naturalized Perimeter Slopes (Continued...)

### **Planted Retaining Wall Hydroseed Mix:**

Achillea millefolium, Common Yarrow Atriplex semibaccata, Creeping Saltbush Camissonia cheiranthifolia, Beach Primrose Clarkia bottae, Punchbowl Godetia Encelia californica, Coast Sunflower Eriophyllum confertiflorum, Golden Yarrow Eschscholzia californica, Golden Poppy Lasthenia californica, California Goldfields Lotus scoparius, Deerweed Melica imperfecta, Smallflower Melic Mimulus aurantiacus, Sticky Monkey Flower



## Area 10A: Alternate Southern Cactus Scrub Vegetation

Plant Material within the Fuel Modification Zones: (Per Cactus Scrub Revegation & Management Plan)

## Shrubs, Vines, Grasses & Groundcovers within the Fuel Modification Zones such as, but not limited to:

Baccharis pilularis\*, Dwarf Coyote Bush Cneoridium dumosum\*, Bushrue Encelia californica\*, Coast Sunflower Heteromeles arbutifolia, Toyon Isocoma menziesii\*, Coastal Goldbush Isomeris arborea\*, Bladderpod Keckiella cordifolia\*, Keckiella Mimulus aurantiacus\*, Sticky Monkey Flower Nassella lepida\*, Foothill Needlegrass Opuntia littoralis, Coast Prickley Pear Cactus Opuntia prolifera, Coastal Cholla Rhus integrifolia, Lemonade Berry Sambucus Mexicana, Mexican Elderberry Solanum xantii, Nightshade Yucca whipplei\*, Foothill Yucca



## Cascading Vines for Planted Walls such as, but not limited to:

Keckiella cordifolia\*, Keckiella Solanum xantii, Nightshade

## Hydroseed Mix within the Fuel Modification Zones:

Artemisia californica, California Sagebrush Eriogonum fasciculatum, Flat Top Buckwheat Eriophyllum confertiflorum\*, Golden Yarrow Eschscholzia californica\*, California Poppy Gnaphalium californicum\*, California Everlasting Lotus scoparius Deerweed Lupinus truncates, Collar Lupine Mimulus aurantiacus\*, Sticky Monkey Flower Nassella lepida\*, Foothill Needlegrass Nassella pulchra\*, Foothill Needlegrass Plagiobothrys nothofulvus, Popcorn Flower Plantago insularis\*, Wooly Plantain Sisyrinchium bellum\*, Blue Eyed Grass Salvia apiana, White Sage Salvia mellifera, Black Sage



# Areas 11: Natural Open Space

(Portions subject to fuel modification)

## Notes:

\* Indicates plants identified on the Orange County Fire Authority's list of "Acceptable Plant Species for Homes Subject to Wildfires" (Where applicable to fuel modification zones)

\*\* Indicates plants identified on the Orange County Fire Authority's list of "Acceptable Plant Species for Homes Subject to Wildfires" that may be used on a limited basis (maximum 30% of area, where applicable to fuel modification zones)

\*\*\* Indicates plants identified on the Orange County Fire Authority's list of "Acceptable Plant Species for Homes Subject to Wildfires" that may only be used in fuel modification zones, not adjacent to reserve lands.

- 1. Platanus racemosa may be used on slopes (in limited quantities) towards the toe of slopes, in compliance with OCFA requirements.
- 2. Marathon 2e Fescue Lawn may only be used in active recreational areas and in minimal amounts within residential applications.
- 3. Phoenix dactylifera 'Medjool' & Phoenix reclinata Palms are not permitted with 250' of any fuel modification zone, creek or wetland area.
- 4. Indicates plant material that is not permitted within 250' of a creek or any wetland area.
- 5. Myoporum parvifolium 'Putah Creek' is not permitted within 250' of a creek, any wetland area, re-vegetation area or natural open-space.
- 6. Cupressus sempervirens Strica (Italian Cypress) is permitted only within the project's interior in limited quantities. These trees must be a minimum of 100 feet away from any part of the open-space preserve.

### 8.4 COMMUNITY OPEN SPACE PLAN

The Portola Center Community Open Space Plan includes a Fuel Modification Plan and a Landscape Maintenance Plan that cover the perimeter areas, interior slopes, and community landscaped areas of the Project. The Plan focuses on vegetation management and landscape maintenance to achieve the multiple objectives, including: high quality landscape design, screening and other landscape functionality, and high levels of fire safety and landscape quality. The Portola Center Public Facilities Financing & Phasing Plan provides additional details on the landscape maintenance approach and responsibilities for the Project.

The Portola Center Project site is surrounded by native habitats and open space lands. To the west of the Project site is the Whiting Ranch Wilderness Park, to the South is the Southern California Edison Transmission Corridor Property which is predominantly in a state of natural open space and native habitats, and to the east is the Aliso Creek Open Space Preserve also covered in native habitats. Topography surrounding the site generally falls off to the west, south, and east with the Project site sitting above much of the native habitat that presents a wildland fire risk to the Project. To mitigate this risk, the Project includes permanently irrigated retaining walls and slopes along its southwestern and southeastern boundaries that face the wildland areas. The permanently irrigated slopes and walls in conjunction with the Project's Landscape Maintenance Plan will ensure that the intended vegetation cover for the walls and perimeter areas is maintained and not allowed to dry out or convert to another more potentially flammable type of vegetation.

These Project areas will be managed as "Fuel Modification Zones" per the requirements for FMZ vegetation management of the Orange County Fire Authority. To meet OCFA's requirements, the Project's Fuel Modification Zones are comprised of a ten to twenty-foot-wide permanently irrigated Zone A, generally located inside and within the rear yard area of the private residential lots, and an expanded permanently irrigated "Zone B" that varies in width from 100 feet along the Project's southwestern boundary to 150 feet along the Projects' southeastern boundary, or 25 to 75 feet wider than the standard Zone B width.

The Landscape Concept Plan for the Project identifies a landscape palette for the Project's FMZ areas that will be limited an OCFA-approved plant palette and subject to strict annual to semi-annual vegetation thinning and removal requirements. The Project's interior slopes between residential areas will also be subject to OCFA's interior slope vegetation management requirements. While less stringent than the FMZ areas, these areas will also require regular maintenance and vegetation thinning and removal. In addition to meeting OCFA's vegetation management requirements for interior slopes, these areas will also be subject to landscape maintenance related to maintaining the Project's high quality community design objectives.

To facilitate effective fire personnel access to the open space areas surrounding the Project, the Project includes multiple trail segments along its Perimeter and paseos between the neighborhoods to the trails and these open space areas giving the fire personnel direct and varied access around the Project site's perimeter to offsite wildland areas that may be threatened or enflamed during a wildlfire event. The paseos have been located specifically for the purpose of providing fire personnel access to these offsite open space areas. More than 90% of the perimeter of the Project site includes trails that can be used for this purpose.

Exhibit 6-14 below shows the Project's Fuel Modification Zones, trails, and paseos that have been integrated into the Project's Open Space and Fuel Modification Plan. In conjunction with the Project's Open Space and Fuel Modification Plan, the Project's Landscape Plan, the Project's perimeter retaining walls, the Portola Center Trail System, and multiple fire personnel and pedestrian access "paseos" out to the open space areas provide a comprehensive approach to ensuring the Project's defensibility against wildland fires.



Exhibit 8-4 Portola Center Open Space & Fuel Modification Plan

**Portola Center Area Plan** 

September 2013

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