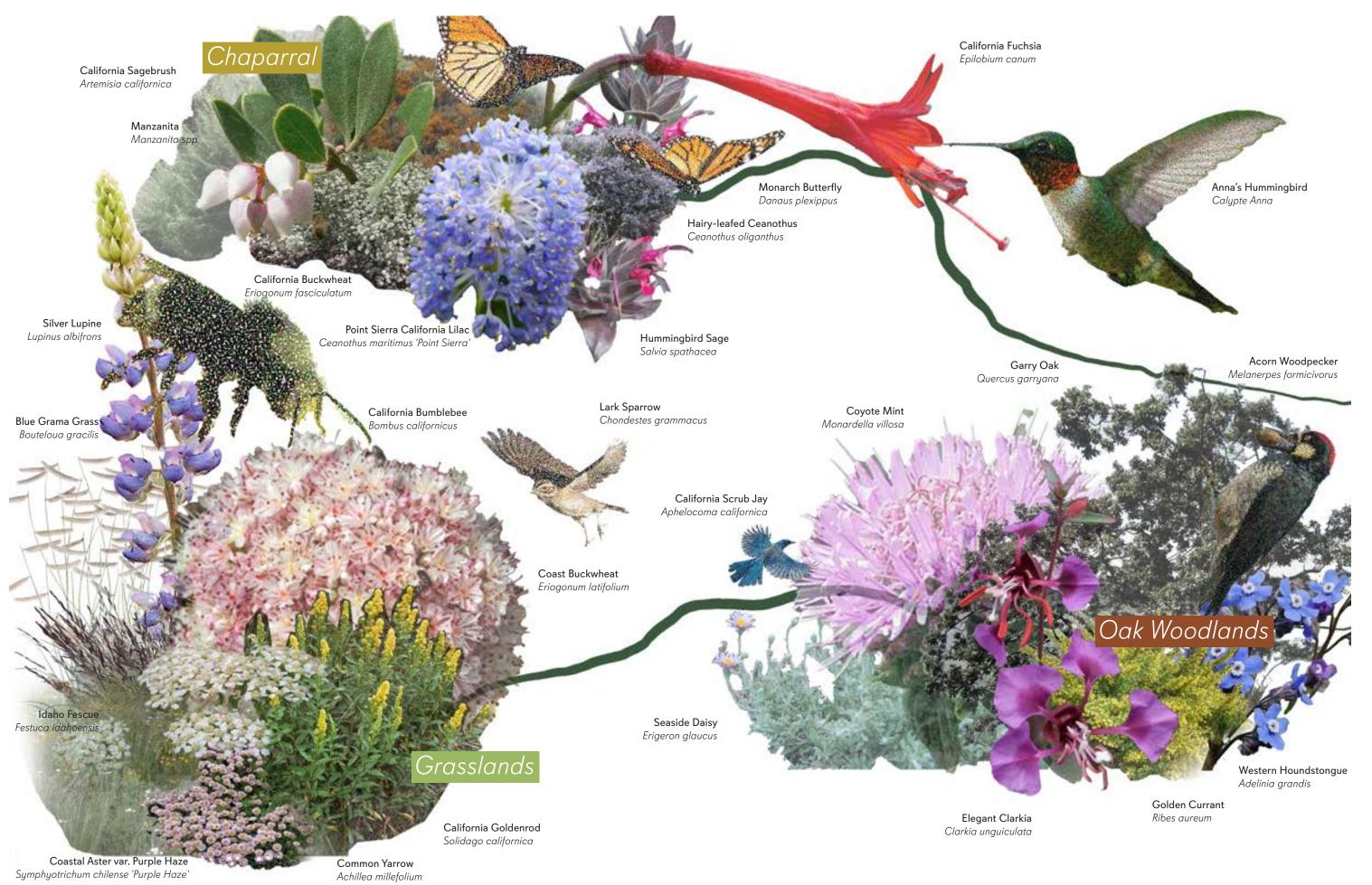


MIGRATING MOSAICS

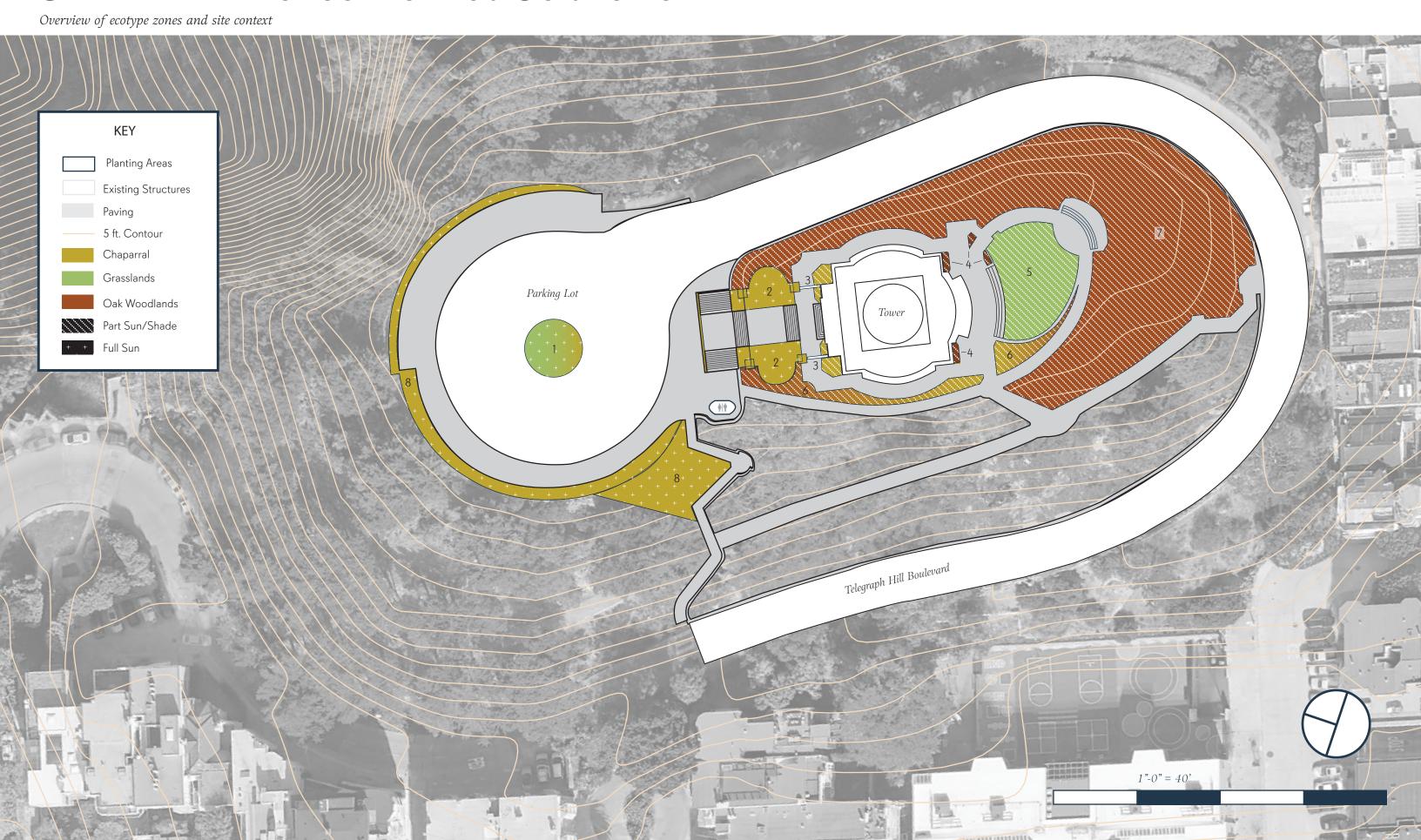
At an historic site like Coit Tower, which can attract up to one hundred and fifty thousand visitors per year, our design team wants to use this opportunity to draw attention to the historic ecosystems of California. These communities of plants and animals are iconic and beloved. However, in a changing and increasingly unstable climate, we want to provoke visitors to imagine how changing ecologies can still be vibrant, biodiverse, and beautiful places.

In order to do this, our design focuses on three ecotypes: oak woodland, California grasslands, and chaparral. These ecosystems exist across the landscape like a mosaic, supporting different types of flora and fauna. California native species like coast live oak, goldenrod, and manzanita are keystone organisms for these communities, and they serve a similar role in our designed ecosystems for Pioneer Park.

By engaging with biodiversity, drought resilience, and new plant communities, we hope Pioneer Park can be a place where everyone can learn. In order to understand how landscapes are changing more clearly, our design embraces an experimental approach. The environmental mosaic of California is shifting to the north, which has many different effects. We have included species from as far south as Baja. If historically native species are no longer suited for this climate, these garden beds will be experiments in how to create climate adapted ecologies for the future. In other words, our planting design looks to the past to show the ecologies that made California what it is today, and looks to the future to understand how we can make it healthier for the next generation.



SITE PLAN Pioneer Park at Coit Tower

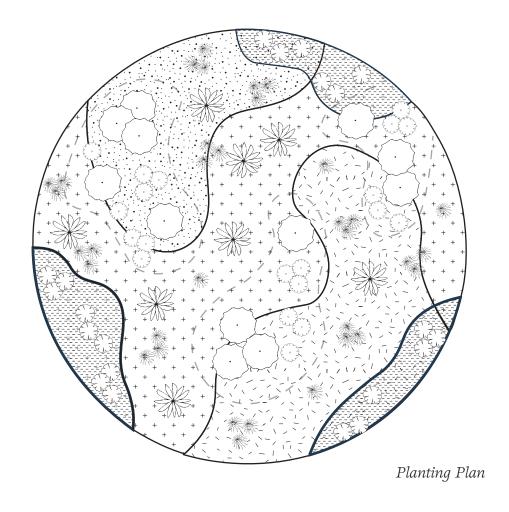


SITE 1 Parking Lot Circle

Inspiration for this site came from California's native grasslands, of which only 1% are still intact. Textured grasses of various heights were mixed with flowering perennials from both grassland and chaparral ecotypes.



Rendering



Short

Eriogonum cinereum Erigeron glaucus Bouteloua gracilis

Medium

Festuca idahoensis Corethrogyne filaginifolia

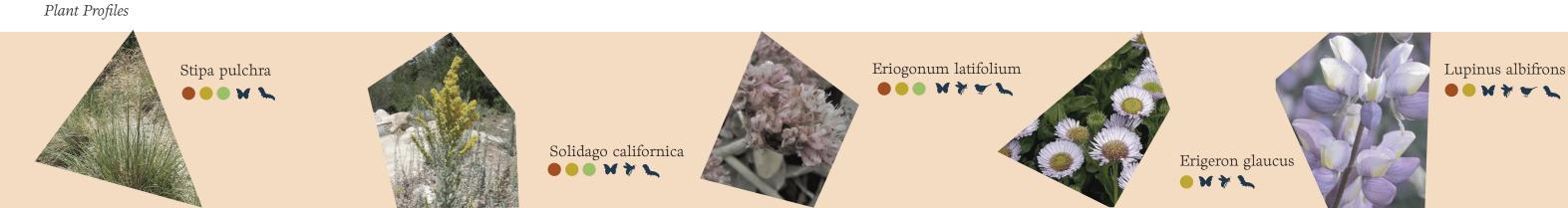
Tall

Solidago californica Stipa pulchra



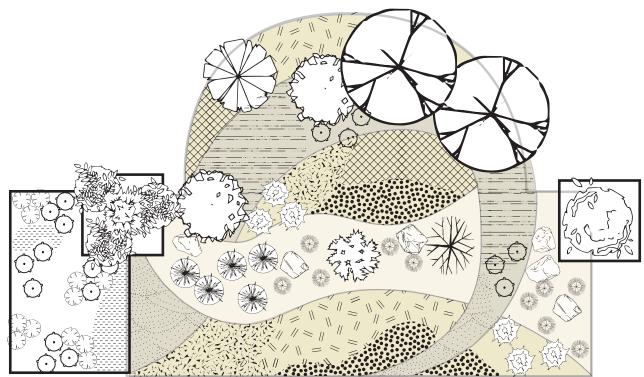
Scatter Plants

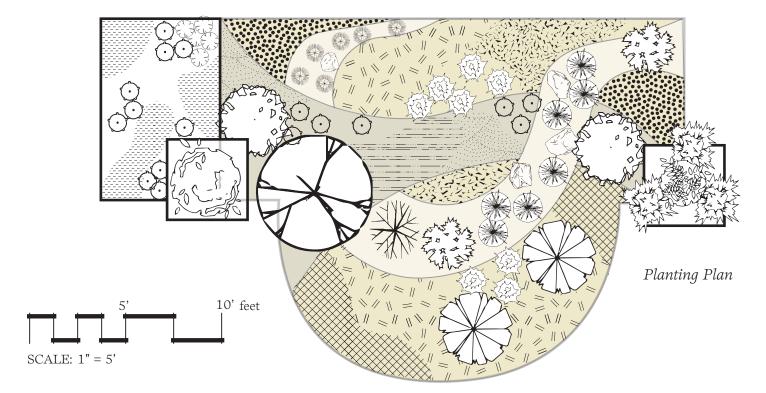
Lupinus albifrons Achillea millefolium



SITE 2 Front Entry Beds

The front entry creates a mixed mosaic of the coastal scrub (chaparral) three subtypes found through California from the Northern border down to lower San Diego, they include Northern coastal scrub, coastal sage scrub, and maritime succulent scrub. Substrate changes throughout the planting to reflect these plant communities and informs the shape of the planting beds.





North Coast Chaparral / Scrub



Arctostaphylos densiflora 'Harmony'



Ceanothus maritimus 'Point Sierra'



Corethrogyne filaginifolia 'Silver Carpet'



Monardella villosa ssp. villosa



Eriogonum latifolium



Keckiella cordifolia



Arctostaphylos uva-ursi 'Point Reyes'



Ceanothus griseus var. horizontalis



Allium unifolium



Erigeron glaucus

Substrate



Fine rocky (gravely) soil with organic matter



Dry, sandy soil with slightly more organic matter



Well draining rocky, sandy soil with larger rocks

Central Coast Chaparral / Scrub



Artemisia californica



Penstemon centranthifolius



Eriogonum grande var. rubescens



Eriogonum fasciculatum



Salvia spathacea



Salvia mellifera

South Coast / Baja Maritime Succulent Chaparral / Scrub



Bergerocactus emoryi



Sphaeralcea ambigua



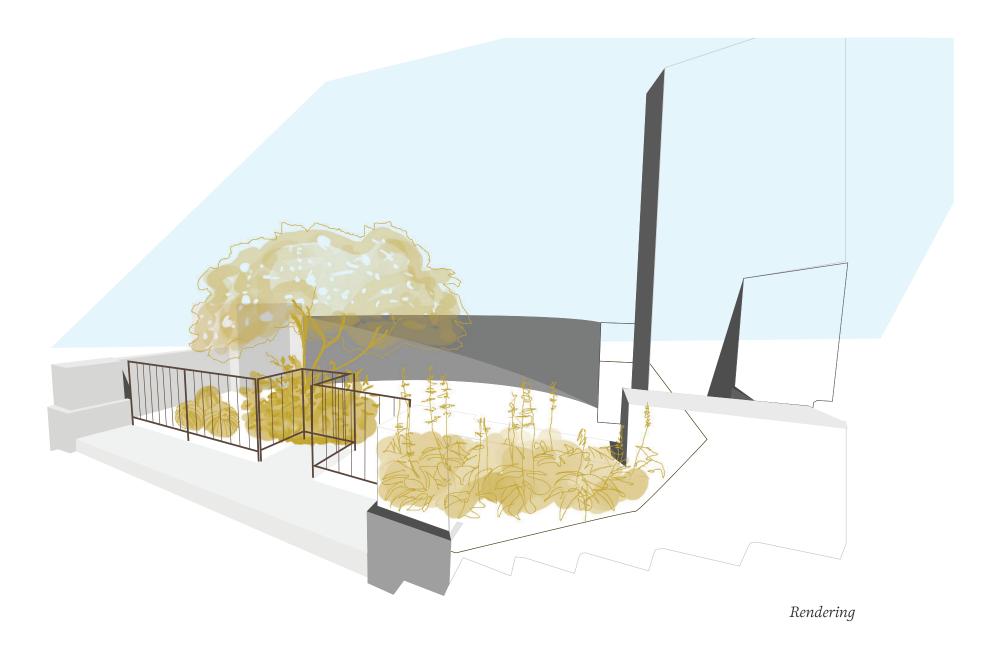
Ferocactus viridescens





Dudleya lanceolata

SITE 2 Front Entry Beds

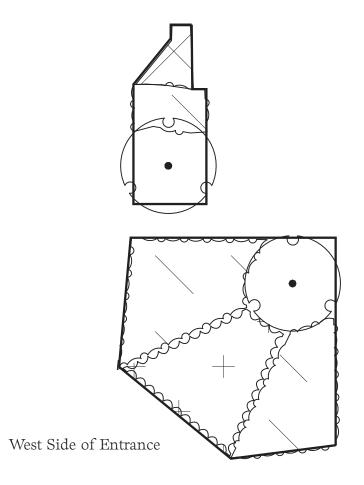


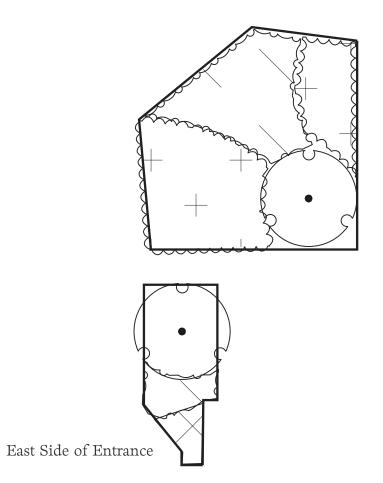
Plant Profiles

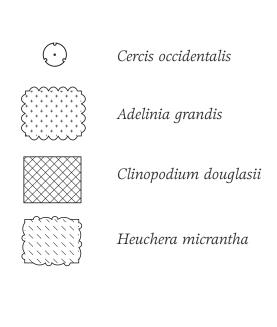


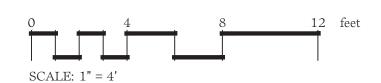
SITE 3 Entrance Door Beds

Butterfly attractive plants frame the entrance to the tower, providing a novel experience with visitors as they encounter butterflies while walking through the site.









Plant Profiles



Adelinia grandis



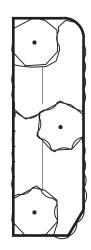


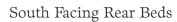


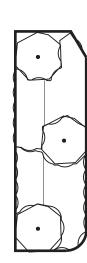
Cercis occidentalis

8

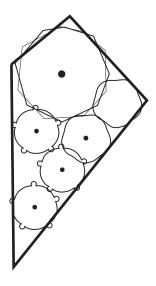
SITE 4 Rear Tower Beds

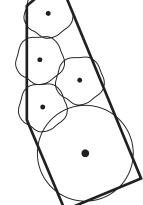






Rear Beds Along Stairs and Pathway





Allium unifolium

Clarkia unguiculata

Baccharis pilularis var. consanguinea Pozo Surf

Monardella villosa

Ribese malvaceum





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Plant Profiles

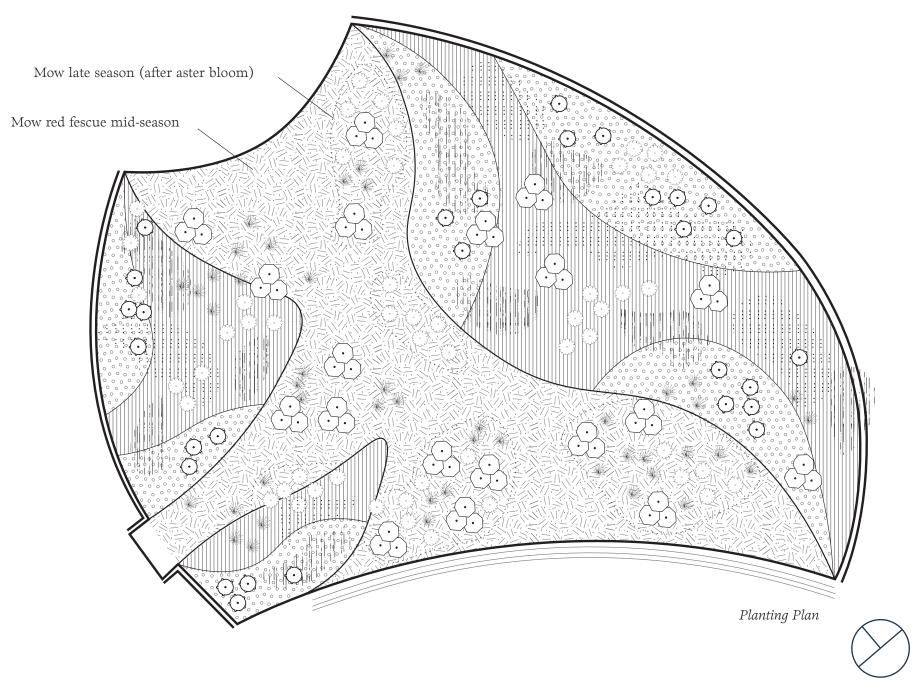


SITE 5 Lawn

In this site, lawn is reclaimed as a small woodland glade that mixes woodland and grassland plants to create a semi-wild space that evolves over the season through selective mowing.



- *sow fast growing annuals to fill space while perennials are establishing (Eschscholzia californica, Phalacia spp., Clarkia spp., Lupinus succulentus)
- *Mow Festuca rubra during the mid-season to allow wandering pathways and impromtu gathering spaces. Leave flower islands off Aster chilensis until after they bloom
- *Plant grass and perennial matrixes on 10-12" inch centers



Plant Profiles





Festuca rubra 'Molate'





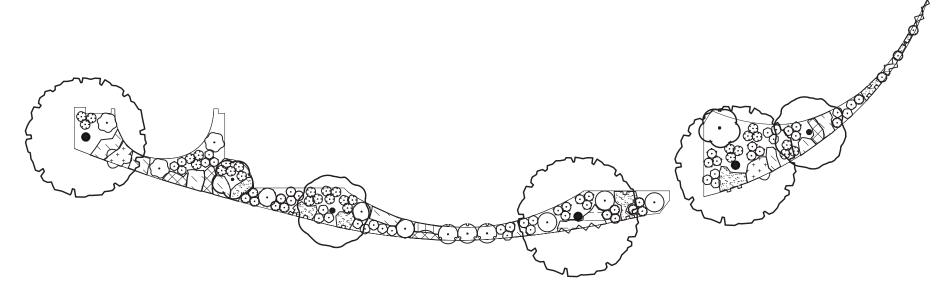


Aster chilensis 'Purple haze'

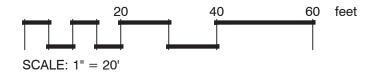
10

SITE 6 ADA Ramp Beds

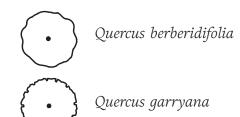
Plants from the chaparral and woodland ecotypes throughout the beds to create a colorful and textured experience



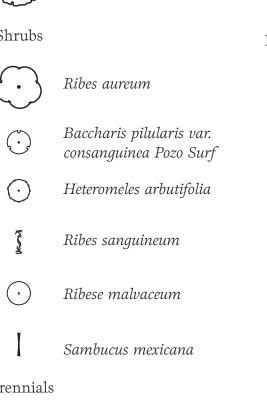
Planting Plan



Trees



Shrubs



Perennials

Erigeron glaucus Iris innominata 'Ed Wood'

Monardella villosa

Perennial Areas

Adelinia grandis

Clinopodium douglasii

Corethrogyne filaginifolia 'Silver Carpet'

Eriogonum latifolium

Heuchera micrantha

Sisyrinchium bellum

Perennials

Allium unifolium

Clarkia unguiculata

Epilobium canum

Plant Profiles





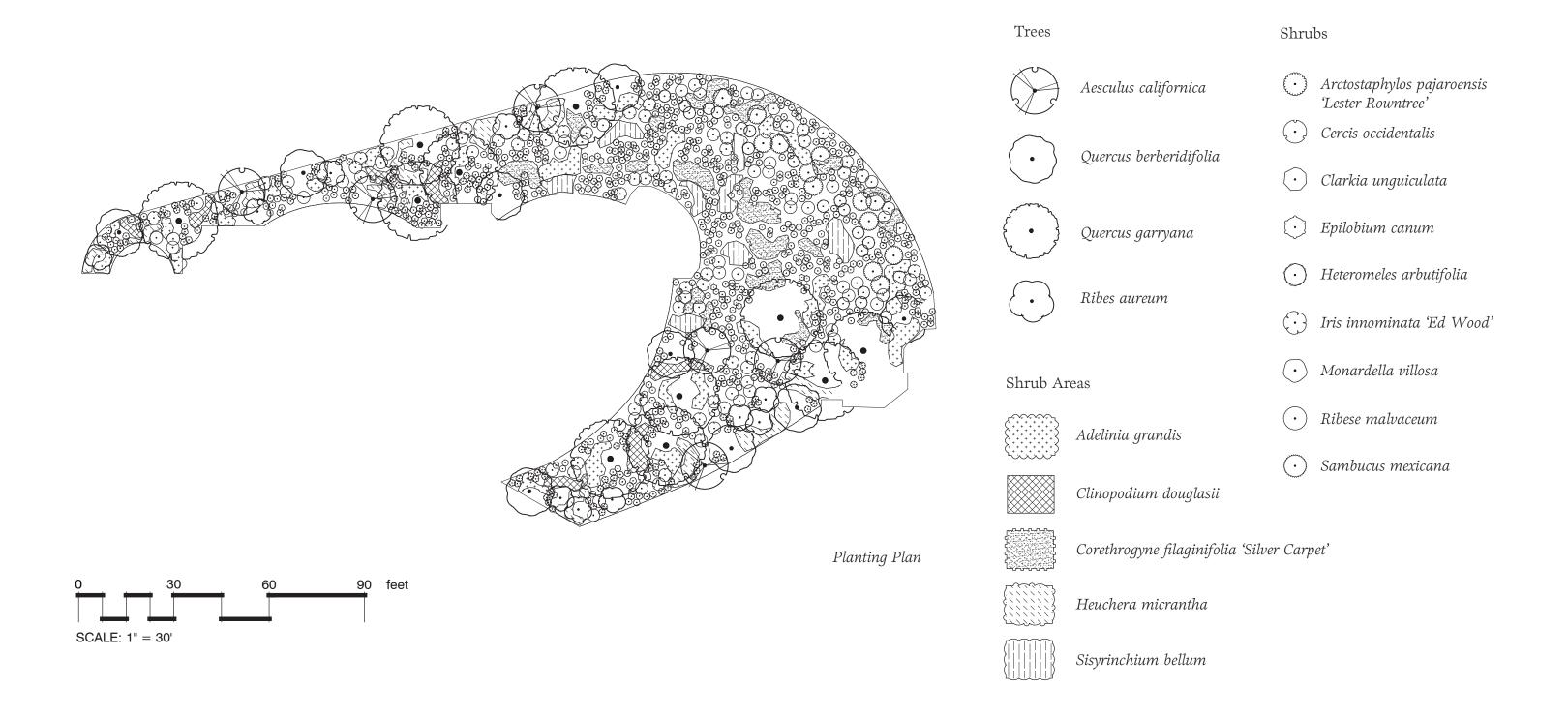
Symphyotrichum chilense



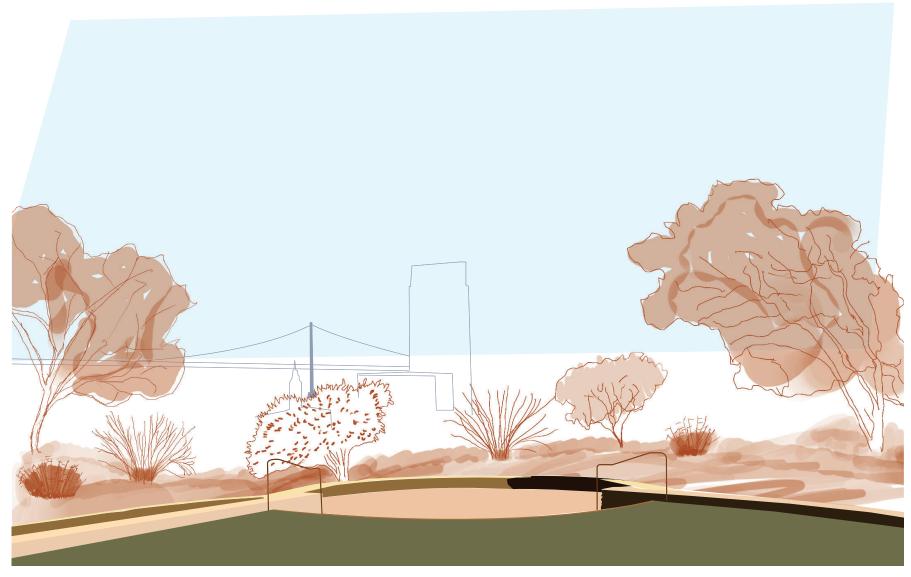
Sisyrinchium bellum • • • × ×

SITE 7 South Area Bed

The existing trees around the site are complemented with native woodland understory and oaks to create a functional habitat for wildlife.



SITE 7 South Area Bed



Rendering









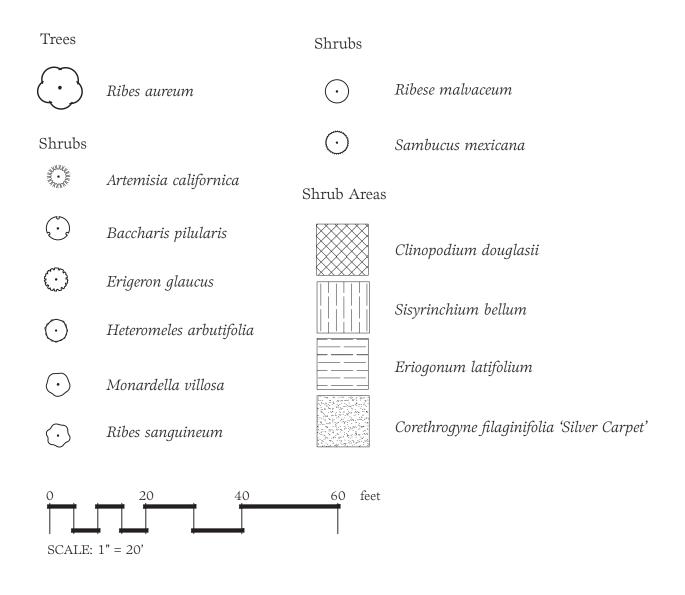


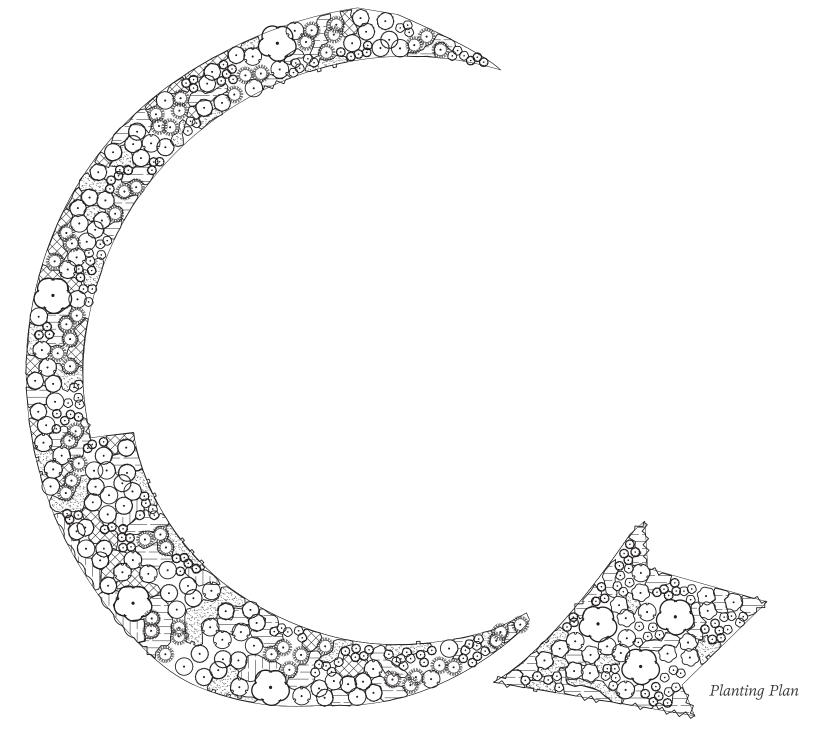


Ribes aureum

SITE 8 Parking Lot Outer Bed

Among the boundaries of the site native chaparral plants blend into the surrounding landscape while providing structure and color along with wildlife benefits to local fauna.





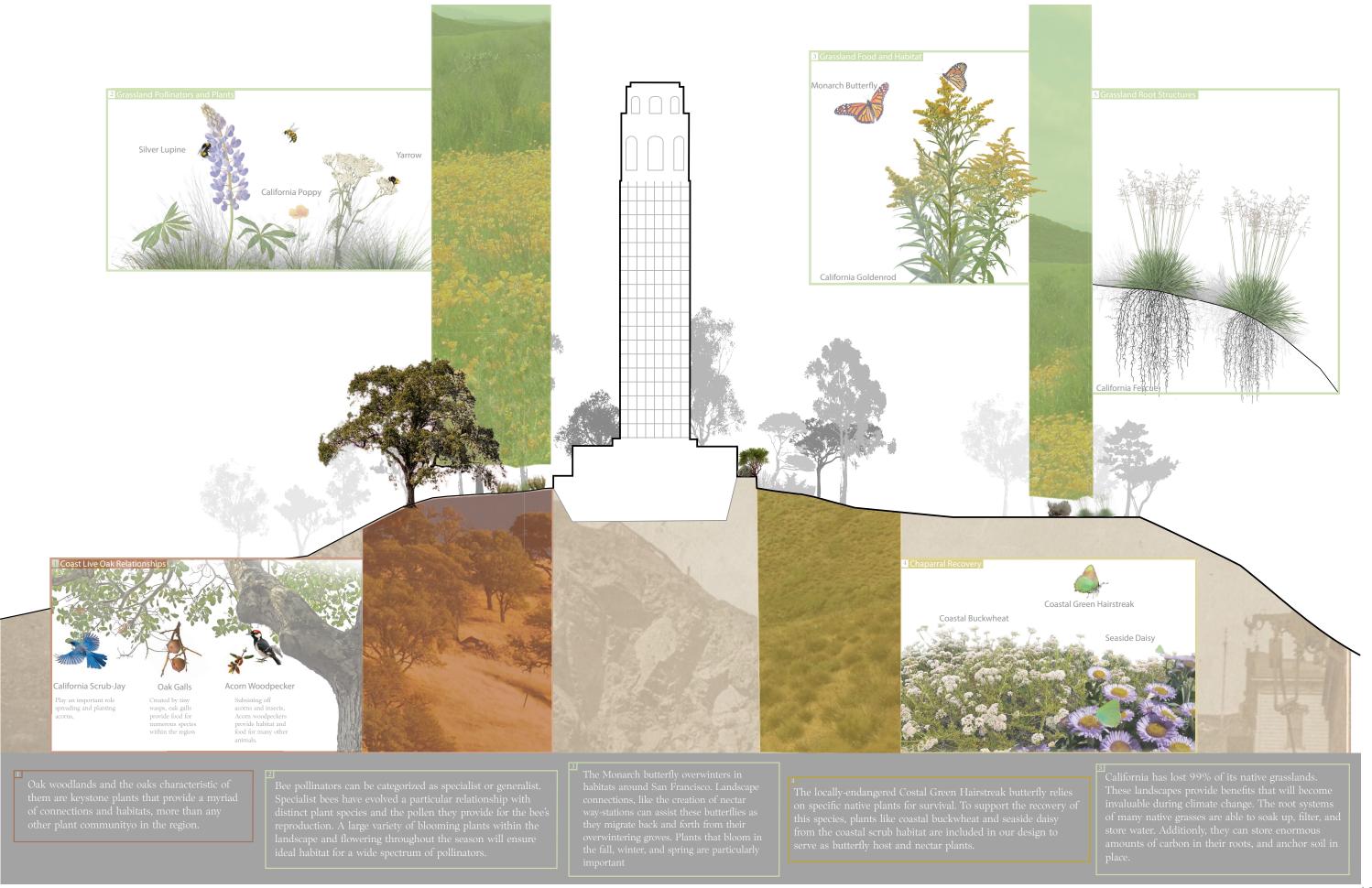
Plant Profiles





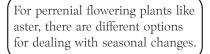


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As the current and future stewards of this site, Friends of Pioneer Park will not only be able to enjoy the new ecologies of these plantings, but also take on some new responsibilites.

Observation, documentation, and care will ensure this space grows and contiues to flourish. Here are a few specific things we have in mind....



Not deadheading dried flowers them will allow plants to self seed and fill out the beds more. If deadheading is desirable for aesthetic reasons, cutting lower on the plant can allow insects to nest inside of stems









COAST LIVE OAK





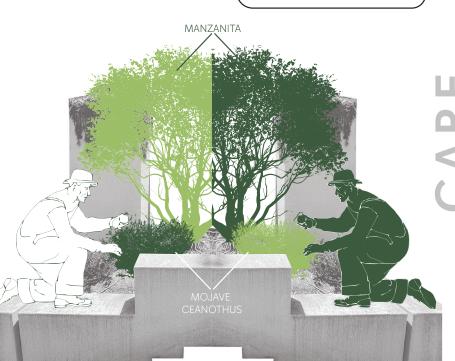


Butterflies are attracted to specific plants for nectar and for overwintering. For example, the goldenrod in our grassland plantings is a great source of nectar for monarch butterflies. Look out for butterflies and other insects to know that these plantings are creating vibrant habitat for pollinators.

In a changing climate, new plants may be better suited to the Bay Area. By incorporating plants from similar ecosystems further south in California, we can understand how our local flora and fauna are changing.

If a plant establishes well, attracts pollinating insects, and doesn't become too dominant, we'll know that this plant could be an adaptive species to bolster native ecologies.

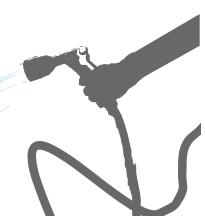
If a plant requires intensive maintenance to grow to maturity, or isn't being used for habitat or food, maybe this isn't the right environment. Failures like this are where the most valuable learning happens



We believe it is best to not remove debris from plants and trees out of the site.
Letting leaves, acorns, and other materials stay in the beds will not only help to build soil over time, but also creates soft landing zones for insects like catapillars.

Our planting designs have highlighted drought tolerant species, but water during the first three months is critical. Keeping the roots properly moist during this time will ensure the plant

will ensure the p establishes well, and grows to maturity.



CREDITS AND SOURCES

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All students of the MLA program at University of Washington in Seattle



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