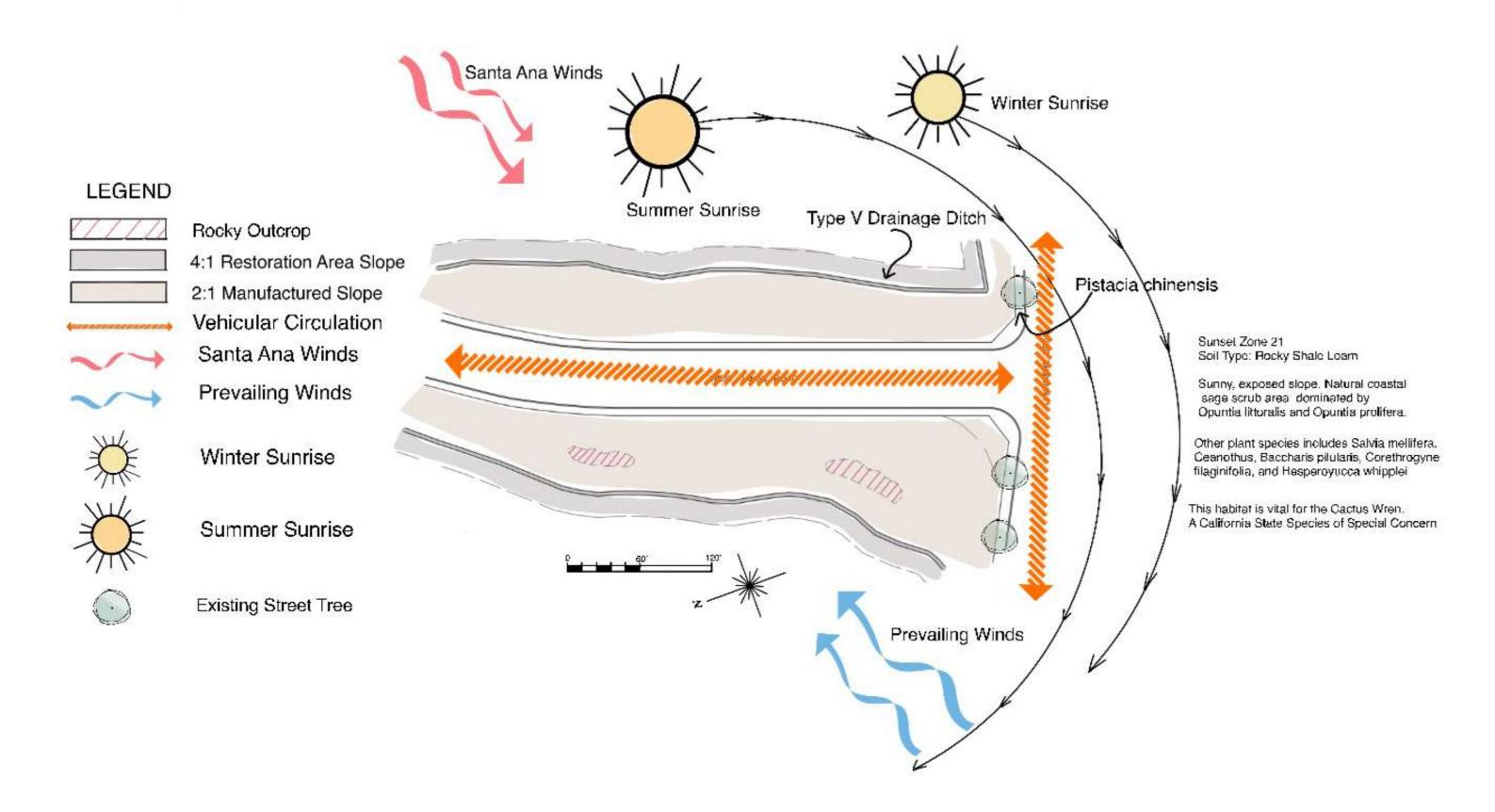
THOUSAND OAKS COASTAL SAGE SCRUB SLOPE DESIGN

TRACY WOLK
LANDSCAPE DESIGN 5
SPRING 2023
PAMELA BRIEF, INSTRUCTOR

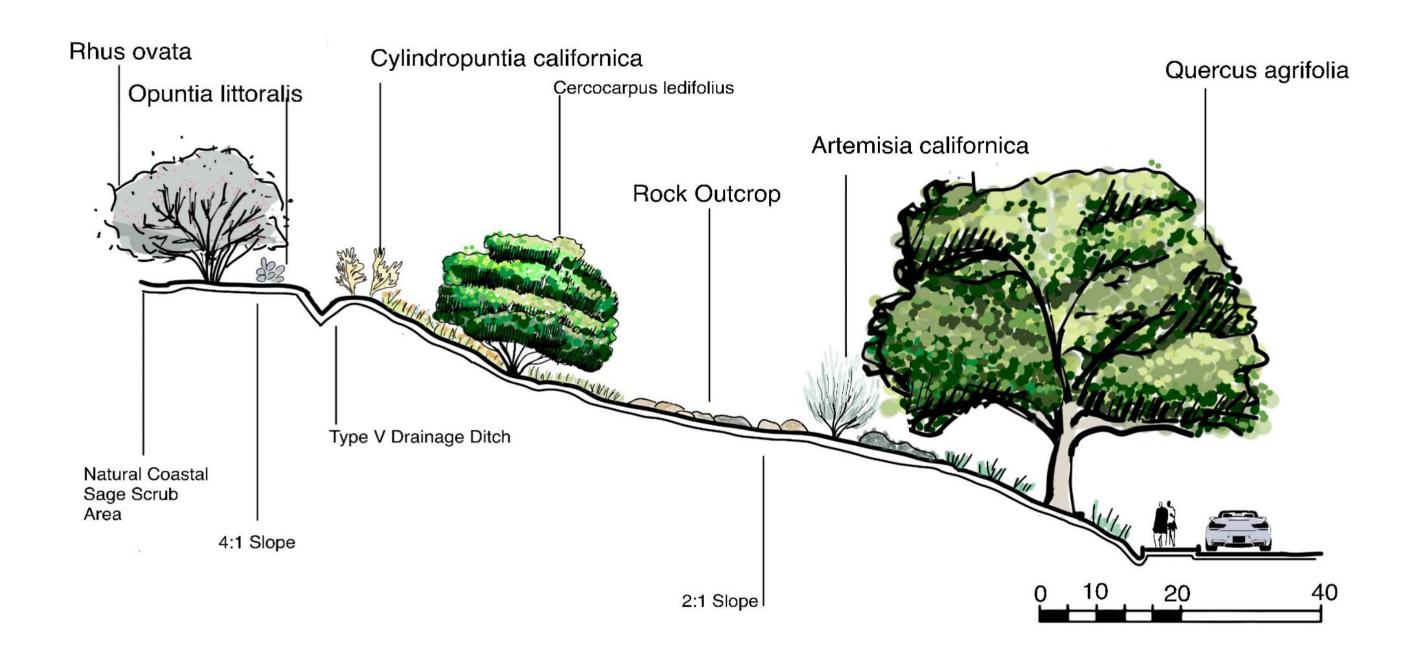
SITE ANALYSIS

EXISTING CONDITIONS



SITE ANALYSIS

SECTION



INSPIRATION COASTAL SAGE SCRUB









INSPIRATION COASTAL SAGE SCRUB











CONCEPT

Located in a quiet single-family residential neighborhood in Thousand Oaks this site is comprised of two slopes flanking West Janns Road. The slope gradient on both sides is 2:1 until it reaches a concrete "V" drainage ditch, after which the slope is 4:1 until it joins an existing natural coastal Sage scrub area.

Understanding the differences between east and west facing slopes was important for selecting appropriate plant species for ecological restoration and management projects. At our slope location we have one slope that is east facing with the other west facing. The orientation of the slope, whether it faces east or west, can significantly influence the plant ecology and the environmental conditions experienced by the vegetation. Different plant species have specific adaptations to cope with varying light levels, temperature ranges, and moisture availability. Sunlight exposure on east-facing slopes is direct light in the morning with cooler temperatures in the afternoon. West-facing slopes receive direct sunlight in the afternoon, making them warmer during the latter part of the day. With this in mind I chose a palette of 100 percent California Native plants that can thrive in both full sun and or part shade.

Native plant ecologies play a crucial role in slope stabilization and restoration due to their inherent adaptability and compatibility with the local environment. Native plants contribute to the process in these ways:

- 1. Erosion control: With extensive root systems that help bind the soil together native plants prevent erosion caused by runoff and wind.
- 2. Soil stabilization: The roots of native plants enhance soil stability by promoting better water infiltration and reducing water runoff.
- 3. Nutrient cycling: Native plant communities have evolved in California over a long period, establishing intricate nutrient cycling processes. Their leaf litter and organic matter contribute to soil fertility and enhance the nutrient holding capacity of the soil.
- 4. Soil reinforcement: The dense network of roots created by California native plants reinforces the structural integrity of slopes. The roots physically reinforce the soil, improving its sheer strength and stability. California native plants have deep taproots or fibrous root systems that are particularly effective in slope stabilization.
- 5. Water management: Native plant communities of Southern California have adapted to our local climate and hydrological conditions. They help regulate water flow on slopes by reducing storm water runoff and increasing water infiltration.
- 6. Biodiversity promotion: Restoring native plant ecologies on slopes encourages the return of diverse plant species, which, in turn, supports a wide range of wildlife.

By choosing plant materials endemic to the local area will give establishing a chance in the otherwise hostile environment of the rocky slope.



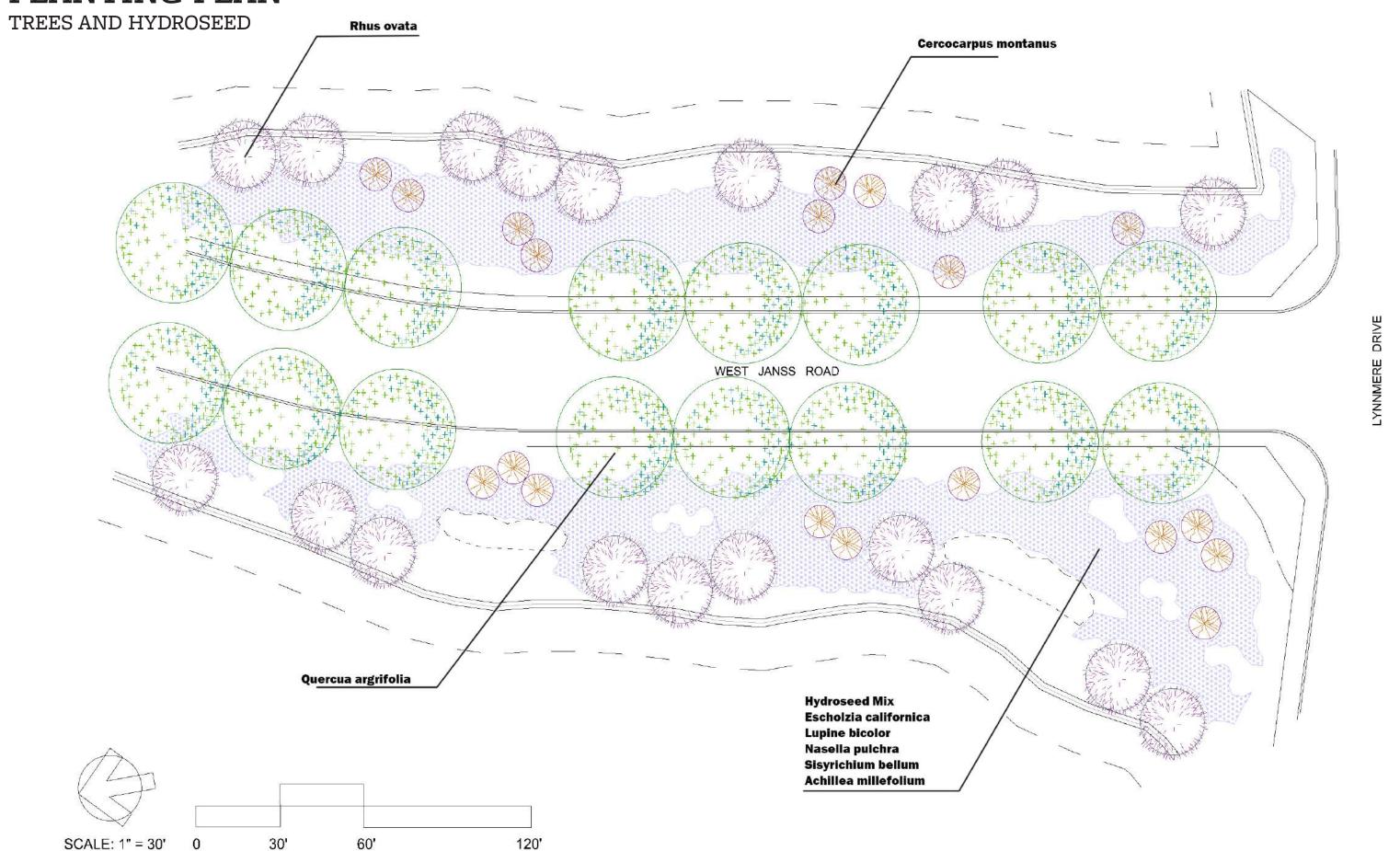




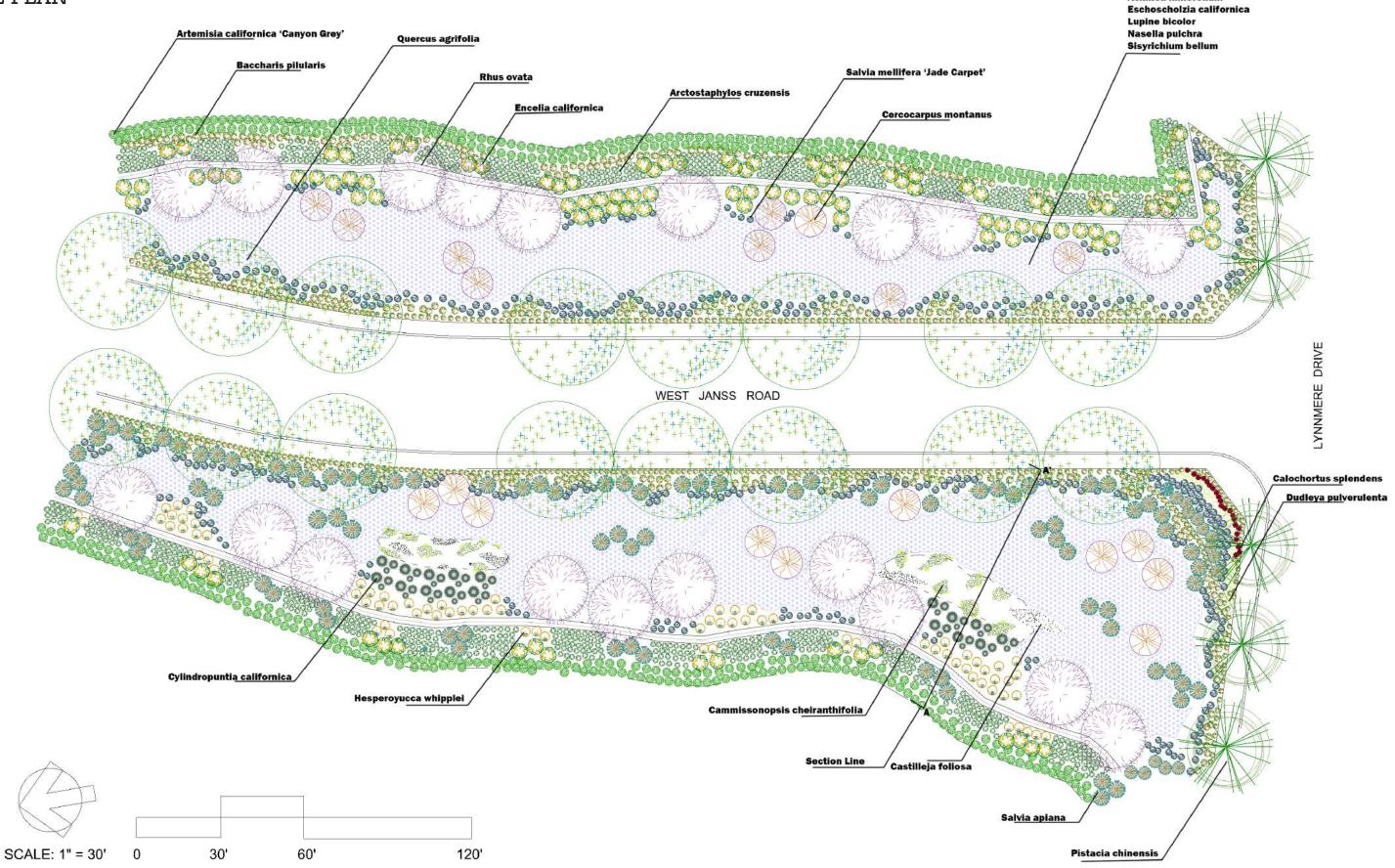








FULL PLAN



Hydroseed Mix Melina imperfecta

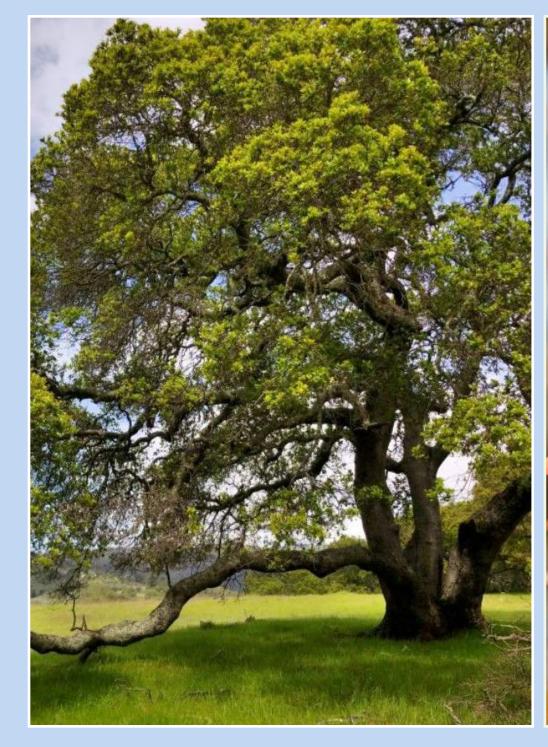
Achillea millefolium

PLANT SCHEDULE

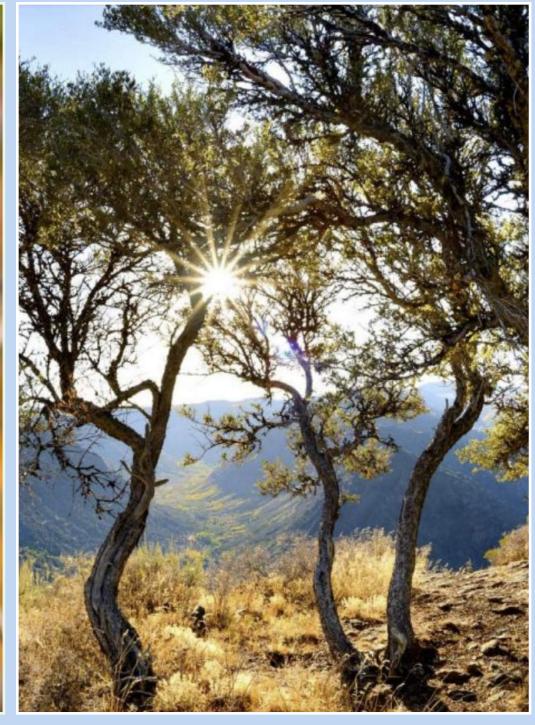
Plant list

	ID	Species	Common name
	1	Arctostaphylos cruzensis	De La Cruz Manzanita
	2	Artemisia californica var 'Canyon Grey'	California Grey Sagebrush
	3	Baccharis pilularis	Coyote Brush
	4	Calochortus splendens	Splendid Mariposa Lily
	5	Cammissoniopsis cheiranthifolia	Beach Evening Primrose
	6	Castilleja foliosa	Woolly Indian Paintbrush
	7	Cercocarpus montanus	Alderleaf mountain mahogany
್ಲಂ	8	Cylindropuntia californica	California Cholla
	9	Dudleya pulverulenta	Chalk Dudleya
	10	Encelia californica	Bush Sunflower
	11	Hesperoyucca whipplei 'RBG'	Chapparal Yucca
	12	Pistacia chinensis	Chinese Pistache
	13	Quercus agrifolia	Coast Live Oak, Encina
0	14	Rhus ovata	Sugar Bush
*	15	Salvia apiana	White Sage
	16	Salvia mellifera 'Jade Carpet'	Jade Carpet Black Sage

TREES





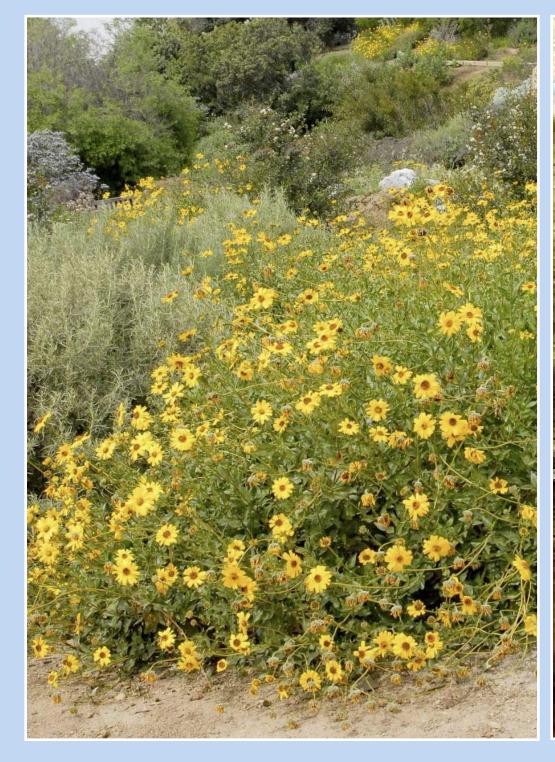


Quercus agrifolia Coast Live Oak

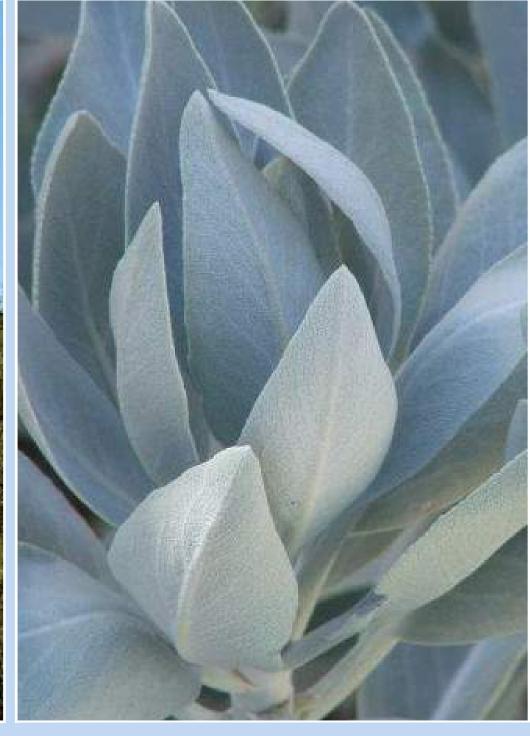
Pistacia chinensis Chinese Pistache (existing)

Cercocarpus montanus Mountain Mahogany

SHRUBS







Encelia californica Bush Sunflower

Cylindropuntia californica California Cholla

Salvia apiana White Sage

PLANT PALETTE SHRUBS



Salvia mellifer 'Jade Carpet' Jade Carpet Black Sage



Hesperoyucca whippleii
Our Lord's CandleYucca



Baccharis pilularis 'Pigeon Point' Dwarf Coyote Brush



Artemisia californica var Canyon Gray California Gray Sagebrush

SHRUBS



Arctostaphylos cruzensis



Rhus Ovata Sugar Bush



Calochortus splendens Splendid Mariposa Lily



Cammissoniopsis cheiranthifolia Beach Evening Primrose



Castilleja foliosa Woolly Indian Paintbrush

HYDROSEED MIX



Nasella pulchra Purple Needle Grass



Mellica imperfecta Coast Range Melic



Achillea millefolium White Yarrow



Lupine biocolor Miniature Lupine



Eschoscholzia californica California Poppy



Sisyrichium vellum Blue Eyed Grass

PLANT DETAILS

Scientific Name	Comon Name	Height	Spread	Hydrozone	Wucols	Soil	Bloom Season	Color	Notes
Arctostaphylos cruzensis	De La Cruz Manzanita	1'-2'	5'-10'	Sun/Part Shade	Low,SWR1	Adaptable	Spring	Pink	Supports Ceanothus Moth
Baccharis pilularis	Dwarf Coyote Brush	1'-3'	6'-12'	Sun/Part Shade	Low,SWR1	Adaptable	Fall	White	Supports White-Lined Sphinx Moth
Cammissoniopsis cheiranthifolia	Beach Evening Primrose	1"-4"	.5'-3'	Full Sun	Low,SWR1	Sandy	Winter-Summer	Yellow	Supports Clarks Day Moth
4									
Dudley's pulverulenta	Chalk Dudleya	.33-1'	1'	Sun/Part Shade	Very Low,SWR1	Sandy	Spring-Summer	Orange	Supports Sonoran Blue Butterfly
5									
Castilleja foliolosa	Woolly Indian Paintbrush	2'	2'	Full Sun	Very Low,SWR1	Rocky Slopes	Winter-Spring	Red	Supports Chlosyne leanira
6									
Cylindropuntia californica	California Cholla	9.8'		Full Sun	Very Low,SWR1	Sandy	SPring-Summer	Yellow	Supports Cactus Wren













PLANT DETAILS

	Scientific Name	Common Name	Height	Spread	Hydrozone	WUCOLS	Soil	Bloom Season	Bloom Color	Notes
	Artemisia californica var 'Canyon Gray'	California Gray Sagebrush	1'-2'	4'-6'	Full Sun/Part Shade	Low,SWR1	Adaptable			Supports California Gnatcatcher
	Hesperoyucca whipplei	Our Lord's Candle	2'-12'	2'-3'	Full Sun	Very Low,SWR1	Rocky	Spring	Cream	SupportsYucca Moth
3	Salvia apiana	White Sage	3'-5'	3'-8'	Full Sun	Very Low,SWR1	Adaptable	Winter-Spring	White	Supports Carpenter Bees
	Salvia mellifera Jade Carpet'	Jade Carpet Black Sage	1'-2'	4'-6'	Full Sun/Part Shade	Low,SWR1	Sandy	Spring	Lavender	Supports White Lined Sphinx Moth
ļ										
	Encelia californica	Bush Sunflower	1.6'-5'	3'-7'	Full Sun/Part Shade	Very Low,SWR1	Adaptable	Winter-Spring	Yellow	Supports Fatal Metalmark Butterfly
6										
	Calochortus splendens	Splendid Mariposa Lily	2'	6"	Full Sun/Part Shade	Very Low, SWR1	Sandy	Spring	Pink	Supports Native Fairy Bees













HYDROSEED MIX DETAILS

	PLANT	HEIGHT	FLOWER TYPE	GROWTH TYPE	FLOWER SIZE	GROWTH SEASON	NATIVE TO CA.	COMMENTS	PERCENT OF MIX
	Achillea millefolium White Yarrow	1'-3'	Perennial	Shrub	Small	Spring	Yes	Underground runners provide erosion control.	20%
	Eschoscholzia californica California Poppy	-1'	Annual	Flower	Large	Spring/Summer	Yes	Fire retardent properties. Freely reseeds	15%
3	Lupinus bicolor Miniature Lupine	-1'	Annual	Flower		Spring	Yes	Fire retardent properties.	15%
	Melica imperfecta Coast Range Melic	1'-3'	Annual	Grass		Cool	Yes	Prefers dry hillsides. Ornamental bunch grass.	20%
Į.	5								
	Nasella pulchra Purple Needle Grass	1'-3'	Perennial	Grass		Cool	Yes	Drought tolerant tufted bunch grass	15%
e									
	Sisyrichium bellum Blue Eyed Grass	1'-3'	Perennial	Flower	Small	Spring	Yes	Fire retardent properties. Great ground cover	15%













TREE DETAILS

	Scientific Name	Common Name	Height	Crown	Hydrozone	WUCOLS	Soil	Bloom Season	Bloom Color	Notes
1										
	Cercocarpus montanus	Mountain Mahogany	8'-20'-	10'-12'	Full Sun	Very Low,SWR1	Adaptable	Winter-Spring	Cream	Supports Satyrium tetra butterfly
2										
	Rhus ovata	Sugar Bush	6.6'-32'	30'	Full Sun/Part Shade	Very Low,SWR1	Adaptable	Winter-Spring	White/Pink	Native Bees
3										
	Quercus agrifolia	Coast Live Oak	25-82'	35'	FullSun/Part Shade	Low,SWR1	Adaptable			Host Plant for California Sister Butterfly







THANK YOU

TRACY WOLK LD 5 SPRING 2023 PAMELA BRIEF, INSTRUCTOR