INDIA JENKINS

California State Polytechnic University, Pomona College of Environmental Design School of Landscape Architecture

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03	EAST COUNTY ADVANCES WATER PURIFICATION	30 - 39

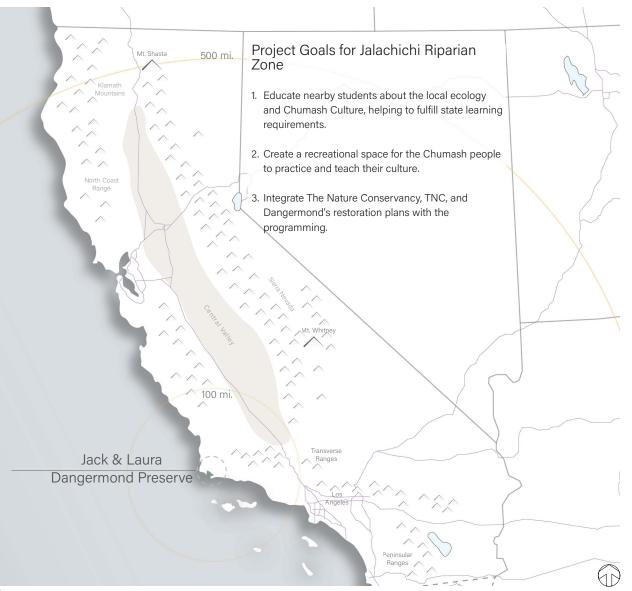
By merging urban and wild landscapes in culturally relevant and economically resilient designs, I hope to offer memorable experiences that cultivate a sense of stewardship.

Jack & Laura Dangermond Preserve

POINT CONCEPTION 2021

To invite the public onto the Jack and Laura Dangermond Preserve, The Nature Conservancy (TNC) sought an intervention that protected the rare habitat and met the needs of local constituents.

SITE CONTEXT & PROJECT GOALS SCHOOL LOCATIONS



To determine who would be most likely to visit "The Preserve," school proximity, size, and grade level were analyzed for curriculum requirements the programing should meet.

Enrollment

K-6K-12

9-12

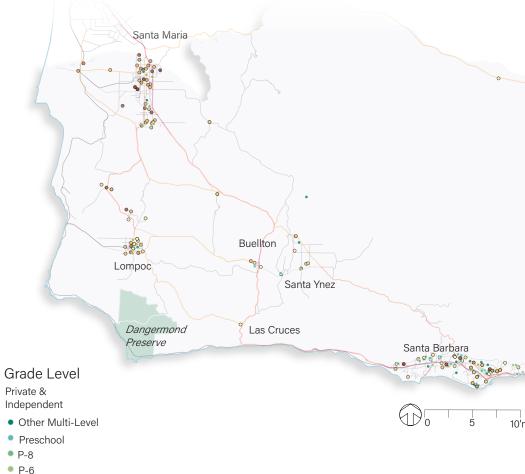
High School

Public

3081

0

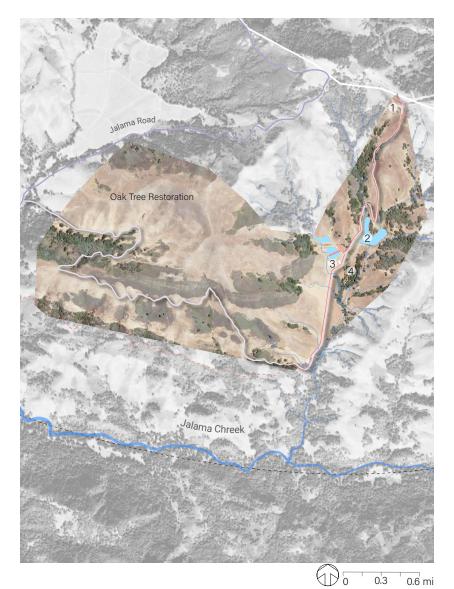
11



JALACHICHI RIPARIAN RESTORATION **GROUND CONDITIONS**

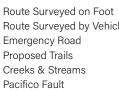
Situated within the perennial headwaters of Jalama creek and the site of an TNC Oak Tree Restoration project are three stock ponds.

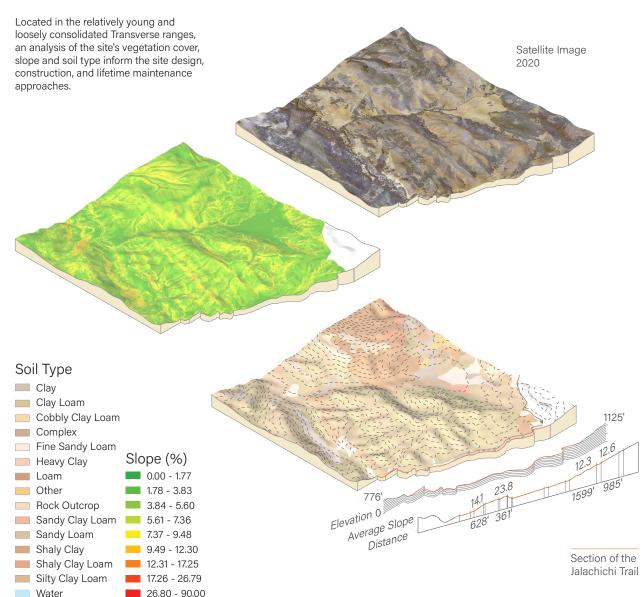
This site has the potential to reestablish habitat for threatened species. With the generation of traditional ecologies, Chumash would be welcome to take paid teaching positions and given access to private ceremony places within the site.



- 1. Parking
- 2. Cultural Exploration
- 3. Detention Basin 3
- 4. Food Foraging





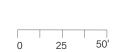


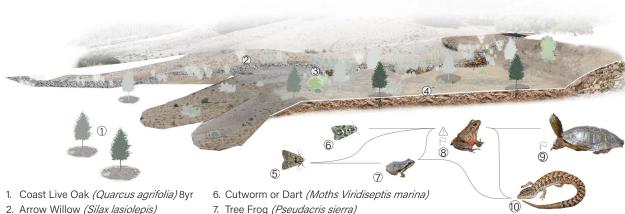
RETENTION BASIN THREE REMEDIATION 2021 & 2023

RETENTION BASIN THREE REMEDIATION 2030 & 2060

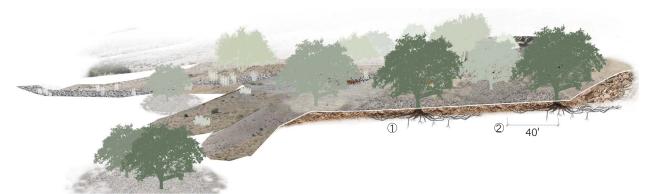


- 1. Poured Concrete Spillway
- 2. Rip Rap Berm
- 3. Deer Weed (Acmispom glaber)
- 4. Coyote Brush (Baccharis pilularis)
- 5. Sage Brush (Artemisia californica gaviot)
- 6. Alluvial Deposits
- 7. Holocene: unsorted sand, silt, clay, gravel, rock debris
- 8. Grassland
- 9. Chaparral
- 10.Oak Woodland
- Slope ≥ 2:1
- 1. Shallow meander slows seasonal flushes and accommodates forbs
- 2. Stream lined with repurposed rip rap prevents erosion
- 3. Unvegetated slopes will experience some erosion
- 4. Removal of rip rap berm
- 5. Establishment of coyote brush and riparian plant communities
- 6. Oak tree seedlings hidden within the coyote brush





- 2. Arrow Willow (Silax lasiolepis)
- 3. Horse Tail (Equisetum sp.)
- 4. Chia (Salvia columbariae)
- 5. Noctuid Moth (Feralia deceptiva)
- 8. Red Legged Tree Frog (Rana draytonii)
- 9. Southwestern Pond Turtle (Actinemys pallida)
- 10. Woodland Alligator Lizard (Elgaria multicarinata ssp. webbii)
- Sensitive species



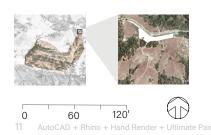
- 1. Mycorrhiza fungi around roots break down the leaf litter, regenerate soil and efficiently transfers nutrients back to the oak trees from which they came.
- 2. Roots, although shallow, will succumb to inundation from standing water. Careful monitoring of sedimentation can protect the oak woodland from seasonal flooding.

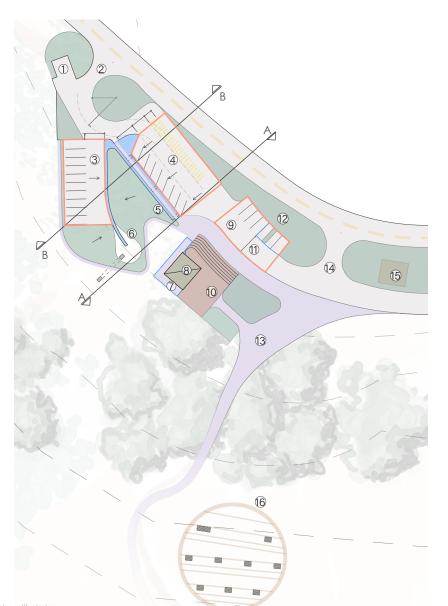
9 Canon DSLR T6 + Photoshop + Illustrator

VISITOR PARKING PLAN SECTIONS A & B

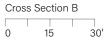
Extreme slopes and weak soils predicate a low impact site plan that curves along the topography. The site location, at the Jalama Creek headwaters, poses a threat to the watershed below.

- Waste Collection
- 2. Entrance
- 3. Parking 2
- 4. Parking 1
- 5. Bioswales6. Infiltration Basin
- 7. Accessible Ramp
- 8. Washroom
- 9. Parking 3
- 10. Staging Area A
- 11. Accessible Parking
- 12. Noise Barrier Berm
- 12. Noise Dairiei Dell
- 13. Staging Area B
- 14. Exit
- 15. Storage and Emergency Facilities
- 16. Terraced Picnic Area





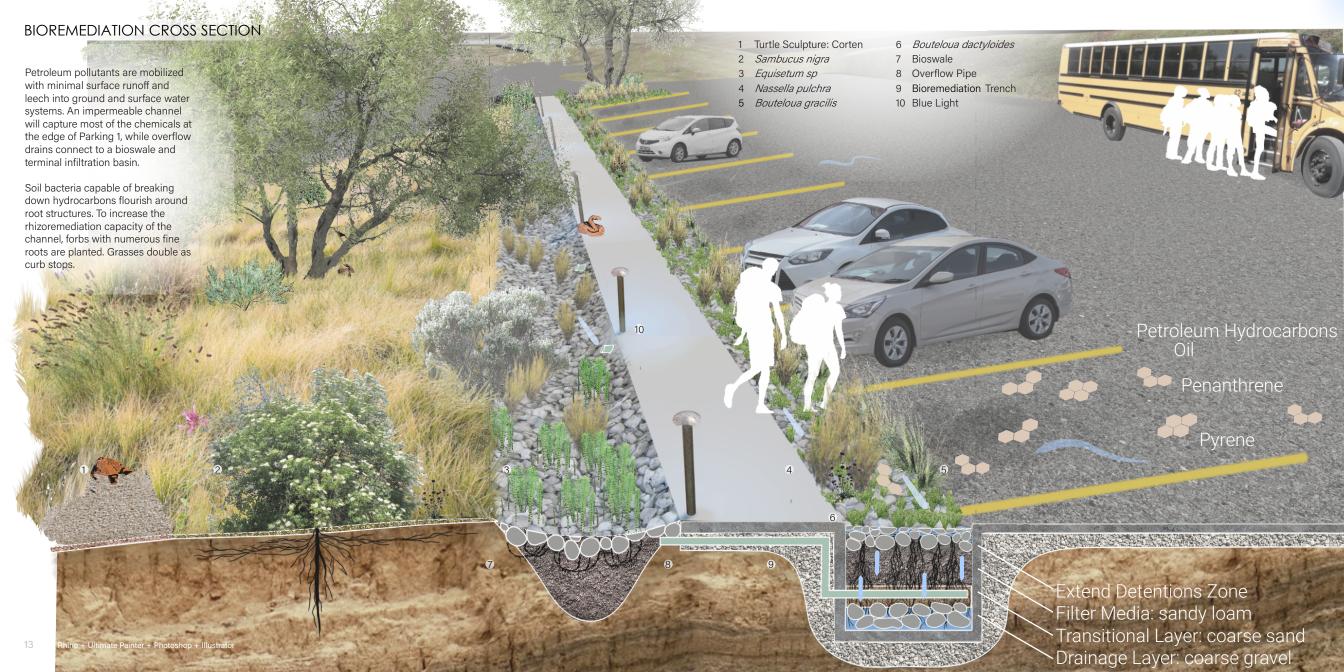




Parking 2

Parking 3

Road

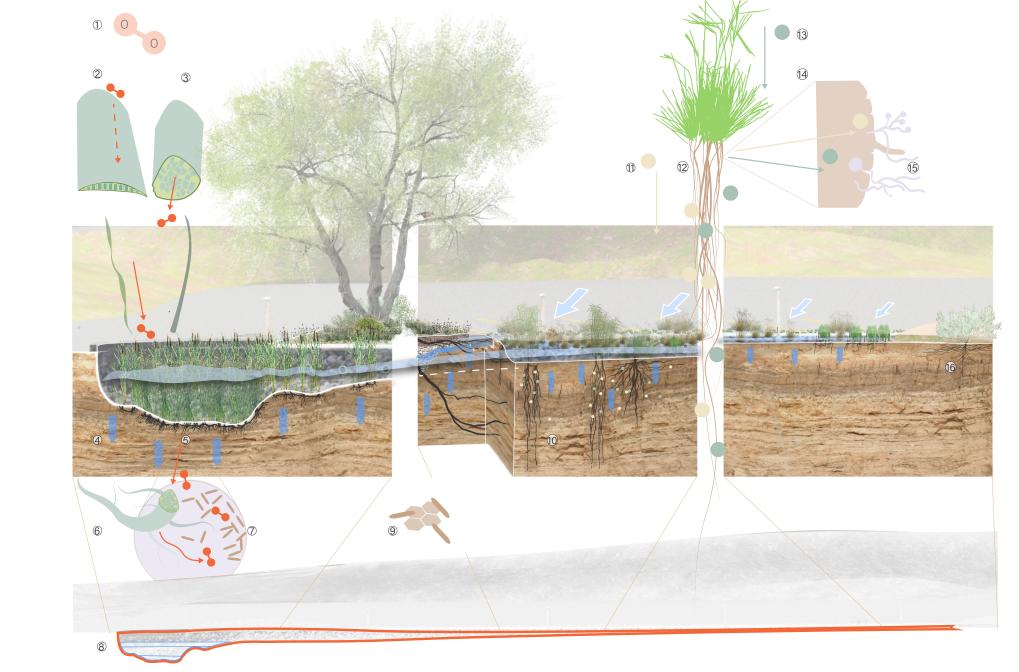


LONGITUDINAL SECTION

Water reaching the bioswale is slowed and detained at an intermediate basin hosting bulrush and cattails. They culture anaerobic bacteria around their roots, expediting chemical decomposition just below the water's surface.

A terraced basin increases the number of plants just below the water's surface, a necessary condition for the rhizoremediation process.

- 1 Oxygen
- 2 Scirpoides holoschoenus
- 3 Typha
- 4 Bioswale Intermediate Basin
- 5 Rhizome
- 6 Rhizome Magnified
- 7 Concentration of Bacteria
- 8 Bioswale Grade and Terracing
- 9 Bacteria Degrading Hydrocarbons
- 10 Deep Asclepias fascicularis Root
- 11 Enzymes
- 12 Fine Roots Increase Bacteria
- 13 Glucose
- 14 Root Surface
- 15 Mycelium
- 16 Artemisia californica



INFILTRATION POND

A short trail connecting the lower and upper parking areas introduces visitors to the water processing system.

The infiltration basin at the end of the bioswale captures the heaviest of rains from both parking lots. The basin is 30 feet across and 4 feet deep, providing spreading and infiltrating ground.

A washroom of gabion wall and foundation construction allows for air and water porosity.

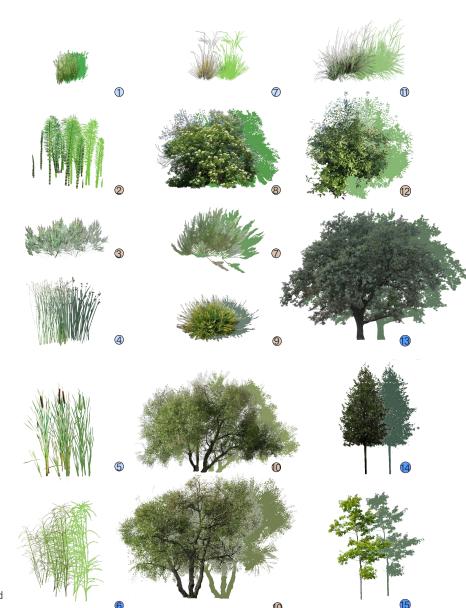
Students and families can enjoy the surprises of finding wildlife sculptures throughout the site.



- 1. Infiltration Basin
- 2. Life Sized Fox Sculpture
- 3. Children's Trail
- 4. Washroom with Green Roof

ANIMAL SCULPTURES IN THE LANDSCAPE

- 1. Blue Grama Bouteloua gracilis
- 2. Horsetails Equisetum
- 3. California Sagebrush Artemisia californica
- 4. California Bulrush Schoenoplectus californicus 5. Cattails
- Typha latifolia Calflora
- 6. Narrow Leaf Milkweed Asclepias fascicularis
- 7. Purple Needle Grass . Nassella pulchra
- 8. Black elderberry Sambucus nigra
- Deer Weed Acmispon glaber10.
- 10. Arroyo Willow Salix lasiolepis: types a & b
- 11. Buffalo grass Bouteloua dactyloides
- 12. California Bay Laurel Umbellularia californica
- 13. Coast Live Oak Quercus agrifolia: 40yr
- 14. Coast Live Oak Quercus agrifolia: 8yr
- 15. Coast Live Oak Quercus agrifolia: 3yr
- Phytodegradation Plants with deep taproots uptake contaminated groundwater
- Rhizoremediation Bacteria and fungi process near surface water pollutants around fine roots
- Phytostabilization Surface roots stabilize the soil and contain contaminats



- 1. Brush Rabbit Sylvilagus bachmani
- 2. Field Mouse Apodemus sylvaticus
- 3. Pallid Bat Antrozous pallidus
- 4. Mule Deer (Male) Odocoileus hemionus
- 5. Red Fox
 - Vulpes vulpes
- 6. Mountain Lion Puma concolor
- 7. Grizzly Bear Ursus arctos californicus
- 8. Black-Chinned Hummingbird Archilochus alexandri
- 9. Peregrine Falcon Falco peregrinus
- 10. Raven Corvus corax
- 11. Golden Eagle Aquila chrysaetos
- 12. Blue Heron Ardea herodias
- 13. Rattlesnake
- Crotalus oreganus 14. Forest Alligator Lizard
- Elgaria multicarinata multicarinata
- 15. Red-Legged Frog Rana draytonii
- 16. Banana Slug Ariolimax californicus
- 17. Monarch Butterfly Danaus plexippus
- 18. Tiger Centipede Scolopendra polymorpha
- 19. California Mantis Stagmomantis californica
- 20. Roly-Polies Armadillidiidae
- 21. Western Pond Turtle Actinemys marmorata







































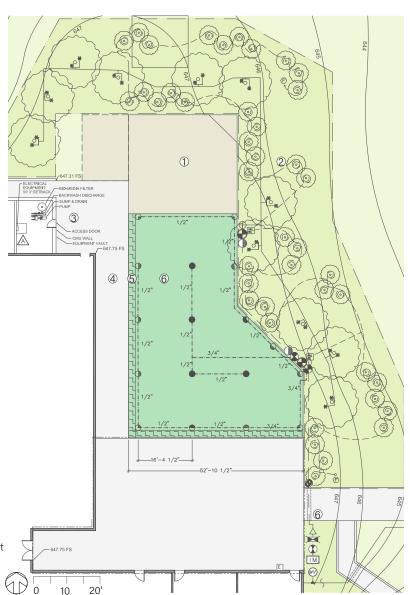


Construction Documentation

2021

IRRIGATION PLAN EXERCISE SHADE STRUCTURE

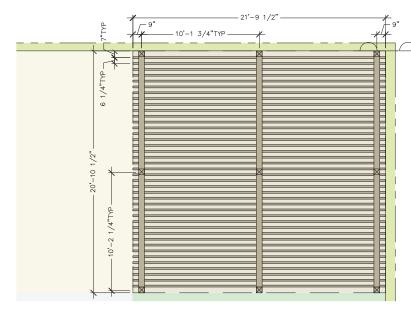
Lateral lines with MP rotators offset from hardscaping avoids water waste. Hunter Eco-Mat borders the walkway and patio. And drip lines encircle shrubs twice in anticipation of changes in water needs.

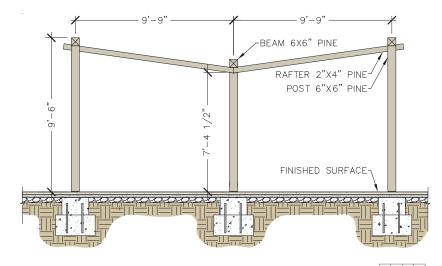


A simple shade structure featuring a butterfly roof opening towards the descending landscape on the right and towards offices on the left.



The lowered spine of the pergola defines two interior spaces which are also bisected by posts at just over ten feet.





5. Plaza Entry

6. Irrigation Utilities

3. Equipment Vault 4. Walkway 5. Hunter Eco-Mat

IBV Controller Brass

1. Picnic Area with Shade Structure

2. Drip and Emitter Irrigation Area

△ Pressure Regulator

Reduced Pressure Backflow Prevention Unit

6. Turf Area MP Rotators and Lateral Lines

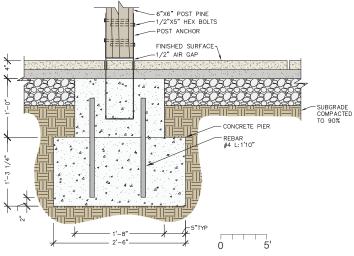
Gate Valve

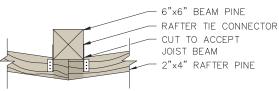
IM Irrigation Master Valve

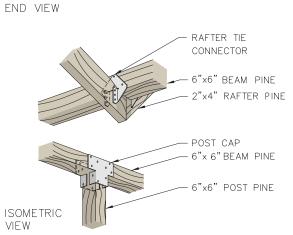
Master Valve

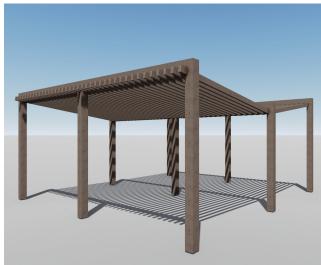
PICNIC AREA SHADE STRUCTURE DETAILS AND RENDERING

Fixture brackets positioned above closely set perlins help conceal hardware. Technically, dimensions and callouts are grouped respectively with text and leaders aligned.









BIOSWALE WALKWAY AND ACCESSIBLE RAMP EXERCISE

Roof and hardscape runoff is directed through a bioswale to a point of interest for people in the passenger waiting area. The main entry path, at a two percent cross slope, sheet flows runoff towards the catchment systems contributing to groundwater recharge. The accessible ramp wheel stops direct some water, at contour 644, to a corner landing drain. Extended landings and shot eight percent segments of incline help reduce fatigue over the seven feet of elevation change.

- 1. Pickup Drop-off Waiting Area
- 2. Debris Basin
- 3. Main Circulation Path
- 4. Vehicle Access
- 5. Bioswale
- 6. ADA Path
- 7. Drain
- 8. Entrance Plaza

CDADING LECEND

GRADING LEGEND						
SYMBOL	DESCRIPTION					
BC	BOTTOM OF CURB					
BS	BOTTOM OF STEP					
FG	FINISH GRADE					
FS	FINISH SURFACE					
TC	TOP OF CURB					
TS	TOP OF STEP					
<u>←2.0%</u>	SLOPE GRADE EXISTING CONTOUR LINES (1-FT INTERVAL) PROPOSED CONTOUR LINES					
XX FS	GRADING CALLOUT					



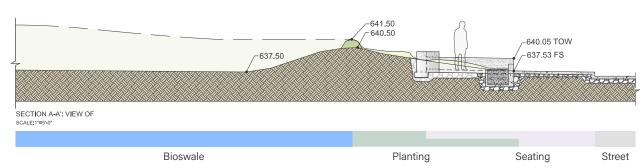
WAITING AREA BIOSWALE SECTIONS AND 3D RENDERING

The seat-wall and waiting bay, section A-A', expresses egress distance and relative heights of berm and individual. The accessibility ramp, section B-B', exposes the minor slope.

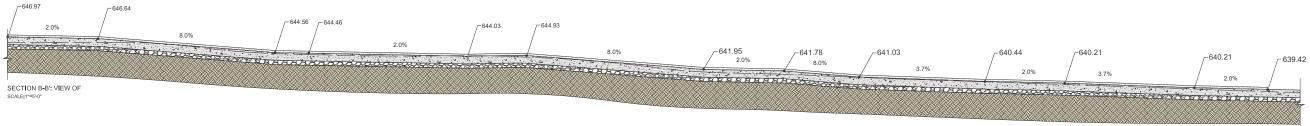
infiltration rate basin debris is restricted before water sheet flows into the



Street



WAITING AREA BIOSWALE SECTIONS AND 3D RENDERING

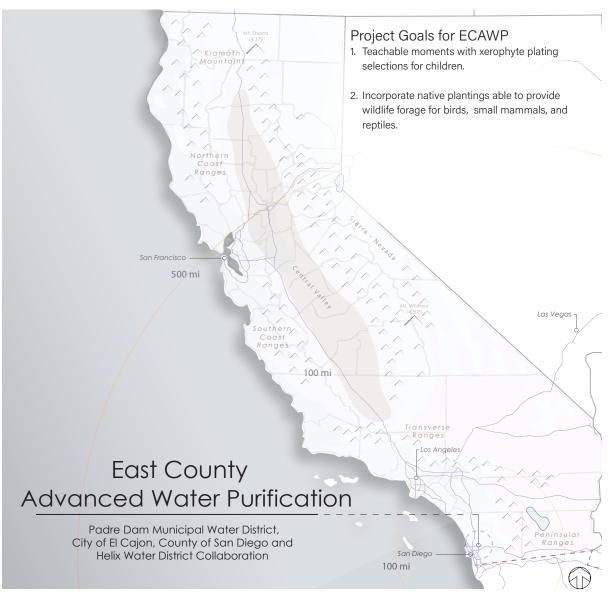


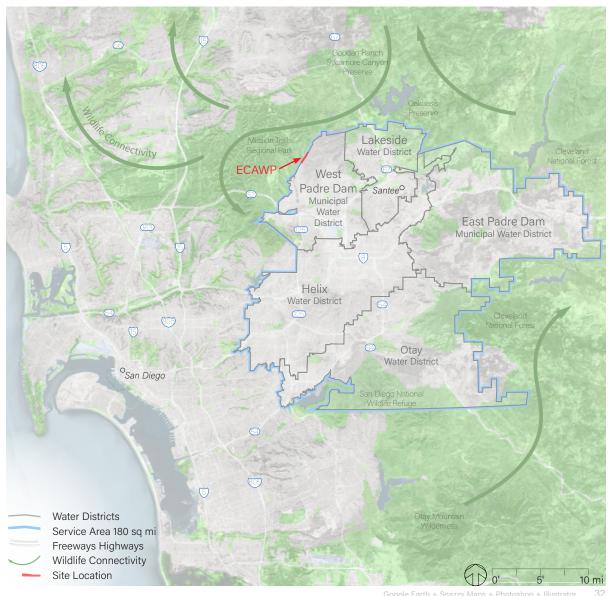
Landing Accessibility Ramp

East County Advanced Water Purification

2024

ECAWP engages developing minds with colorful plantings, fun textures and how low water adaptivity relates to water use at home; All while providing habitat for wildlife.

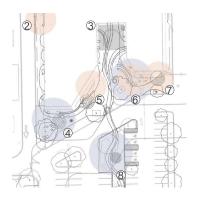


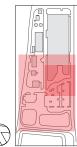


OVERALL PLAN VISITOR CENTER PARKING AND DETENTION BASINS

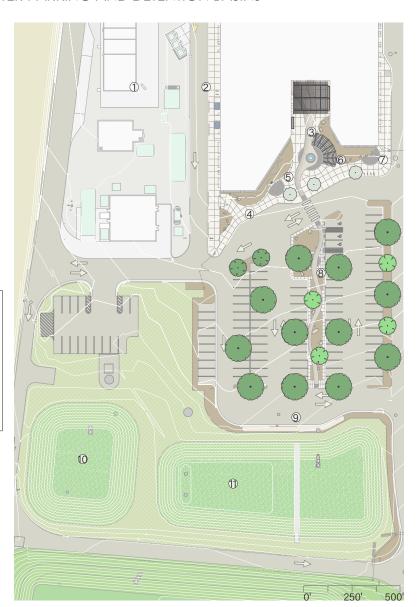
PLAZA SHADE STRUCTURE AND SITE FURNISHINGS

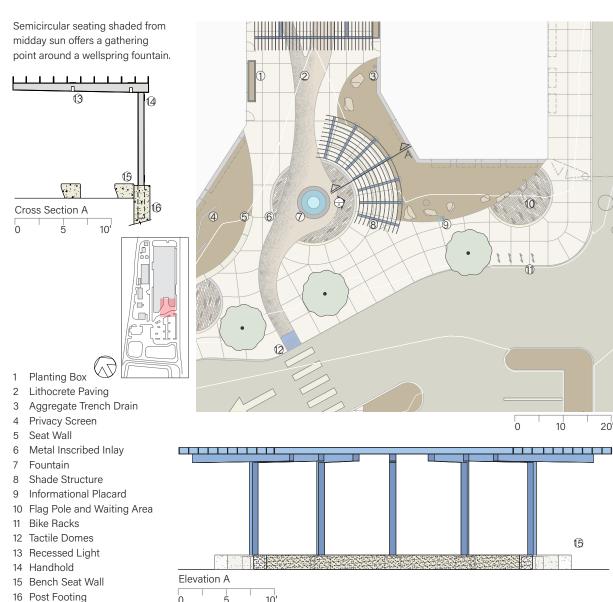
Levels of engagement decrease from the visitor center to retention basins. Security fencing protects basins and from purification facility overflow.





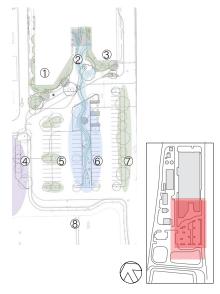
- 1 Water Processing Facilities
- 2 Employer Break Seating
- 3 Visitor Center Lobby
- 4 Bus Drop Off
- 5 Information Point
- 6 Amphitheater and Shade Structure
- 7 Vehicle Pickup Zone
- 8 Social Gathering Point
- 9 Bus Parking
- 10 Purification Overflow Basin
- 11 Overflow and Runoff Basin





SCHEMATIC AND OVERALL PLANTING PLAN

The story of local hydrology and xerophytes, integral to municipal water processing, are displayed as discussion points for visitors. Foothill-like micro berms showcase Mediterranean species of low water adaptation. Bisecting the site is the story of water featuring a fountain and fluvial path meandering through an oak woodland which transitions into savanna-like conditions outward.



- 1 Mediterranean Species
- 2 Primary Path
- 3 Californian Species
- 4 Basin Restoration Seed Mix
- 5 Oak Savanna
- 6 Oak Woodland
- 7 Street Side Planting
- 8 Chaparral Dry & Temporary Inundation

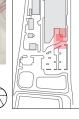


SOUTHERN CALIFORNIA NATIVE PLANTING DESIGN

Charismatic species are arranged by foliage color, photo protective adaptation, for view shed from interior spaces, and fire requirement.







Calliandra californica

Encelia farinosa

Epilobium canum

Eschscholzia californica

Festuca californica



AXEL PATH THOUGH SHADED OAK PLANTING

TRANSITION INTO MORE SUN EXPOSURE

A low water use planting design with compact upright and low forms suited for confined spaces.

- 1 A punctuation
- 2 Maintenance Access
- 3 Visual Openings with Rocks
- 4 Bench
- 5 Metal Engraved Inlay
- 6 Access points to primary circulation
- 7 Interlaced cohesion

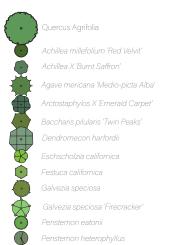






Towards the southwest the vegetation section is exposed to more direct sun. The planting omits heat sensitive species, and includes savanna grasslands





Lomandra longifolia 'Breese'



35 Planting f/v + Illustrate

503.960.8939 india.allury@gmail.com

ENTRY LEVEL LANDSCAPE DESIGNER

NDIA

JENKINS

EDUCATION

California State Polytechnic University, Pomona

Bachelor of Science Landscape Architecture

Regenerative Studies Minor 2018-2022

PROFESSIONAL ASSOCIATION

ASLA

Member: 2019-2024

Olmsted Fellow

2021

National Association of Minority Landscape Architects Cal Poly Pomona

Member: 2021-2022

President: 2020-2021

Student Leadership

2019-2020

AWARDS

Design Village: Winning Design Cal Poly San Luis Obispo

2018

VOLUNTEER

AECOM Green Team Member: 2022-2024

Huerta del Valle Community Garden 2020

WORK EXPERIENCE

AFCOM 2024

LANDSCAPE DESIGNER

Code and site research, survey and analysis, precedent studies and educational program and site diagramming. Geographic, historical, cultural, and material research.

Native plating design for slope stabilization, fire resistance, mowing tolerance, detention basins, stream banks, parking areas and highways. Designed shade structures, screens, and seat walls. Irrigation and grading design.

Construction sets red line edits, sections, details, plans. Participated in meetings and design charrettes.

STUDIO PETRICHOR 2022

LANDSCAPE DESIGN INTERN

Residential Design. Research site environs, laws, codes, constraints and local plant species. Performed preliminary site analysis, survey, and mapping. Composed plant selection list in Planting F/X.

Monitored mound culture (hugelkultur) test site in JPL Riparian Zone for water retention and vegetation health.

BAHIRA INC. ARCHITECTURAL SUPPORT 2018 ARCHITECTURAL DRAFTER

Drafted residential and commercial landscapes and structures using AutoCAD with the aid of satellite images.

Incorporated local building codes into designs.

Submitted construction documents to the City of Norwalk, CA for approval.

MENEMSHA SOLUTIONS 2017

ARCHITECTURAL DRAFTER

Drafted pre-exsisting building construction documents from red-lined plans. Placed symbols on plans to identify locations of 3D photographs. Hyperlinked symbols to 3D photographs and other images. Referenced image details to confirm accuracy of symbol placement.

Compiled reports of existing conditions incorporating satellite images and site plans. Placed symbols on site plans and hyperlinked images.

LEADERSHIP EXPERIENCE

NATIONAL ORGANIZATION OF MINORITY LANDSCAPE ARCHITECTS CAL POLY POMONA (NAMLA CPP)

Founded NAMLA CPP in response to the Open Letter to the Department of Landscape Architecture to Combat Racism.

Held training session to help students identify their vocation and invited a large landscape architecture firm to present on the subject of community engagement.

TECHNICAL SKILLS

Rhino	Lumion	MicroStation	Hand sketching
Grasshopper	ArcGIS	Adobe Suite	Photography
SketchUp	AutoCAD 24'	Microsoft	Google Earth Pro
Revit	Land F/X Suite	Hand Rendering	Bluebeam REvu