REIMAGINING THE EARL WARREN PARKING LOT

ATELYN RHEINSCHILD, SUMMER 2022



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PRESENTATION BOARDS

This project aims to redefine a valuable yet underutilized piece of existing urban infrastructure through the creation of a working landscape that can benefit both the environment and the Santa Barbara community.

With almost ten acres of impervious surfacing located within the Arroyo Burro watershed, this project will explore the idea that a parking lot can be designed to enhance both ecological systems and social values, rather than deemed an environmental liability.

SITE CONTEXT

SITE LOCATION

Earl Warren Showgrounds 3400 Calle Real Santa Barbara, CA 93105 Size: 34 acres Ownership: State of California



scale: NTS (\top) cover photo

Earl Warren Showgrounds is a 34-acre multi-use property. The property is owned by the state of California and managed by the 19th District Agriculture Association (DAA). Earl Warren Showgrounds is a financially self-supporting facility functioning as a non-profit. The policy making body is made up of nine (volunteer) board members who are appointed by the governor of California.

This property was originally obtained and built as a facility to house the Santa Barbara National Horse and Flower Show, as well as many other equestrian and agricultural events. The original equestrian facility was completed in 1958, exhibit building completed in 1959 and the admin building added in 1961.

PROJECT JUSTIFICATION

PROJECT JUSTIFICATION STORM WATER MANAGEMENT

Earl Warren Showgrounds is a 34 acre multi-use venue located in the heart of Santa Barbara. The property was selected in 1950, specifically to house the Santa Barbara National Horse and Flower Show, as well as many other equestrian and agricultural events.

Earl Warren Showgrounds is also home to the largest parking lot in the Santa Barbara County, championing approximately 10 acres of exposed paved asphalt.

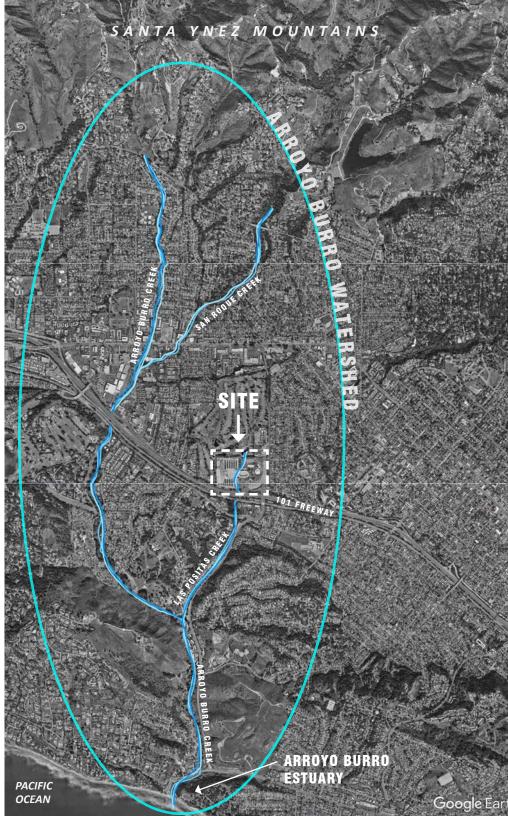
This surafce area happens to also be located within the Arroyo Burro Watershed. This water shed is one of the two largest watershed systems in Santa Barbara, traveling through a series of creeks, from the Santa Ynez Mountains to the Pacific Ocean. The Arroyo Burro watershed is made up of, Arroyo Burro Creek, San Roque creek and Las Positas creek. Earl Warren Showgrounds is located at the head of Las Positas Creek.

WHY DOES THIS MATTER? KEEPING OUR CREEKS CLEAN,

- Reduce public health risks
- Enhance recreational uses
- Enhance aquatic and riparian habitats

POLLUTANTS FOUND IN OUR CREEK (SB Creeks, 2002)

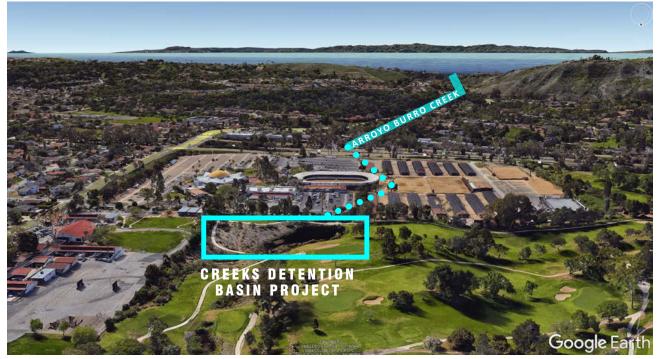
- Bacteria from pet and animal waste, wildlife, malfunctioning sceptic tanks, sewer spills and transient use of the creeks.
- Sediments
- Nutrients
- Oil, grease and gas
- Trash
- Fertilizer, pesticides, cleaning products, industrial waste and other toxic substances
- Heavy metals



Arroyo Burro Contamination

In 2002, the city of Santa Barbara conducted a comprehensive study throughout the Arroyo Burro Watershed. The study was held to identify potential sources contributing to the high amounts of pollution (specifically bacteria) found in the Arroyo Burro estuary. Within the report, The Earl Warren Showground's drainage facilities were listed as a potential source. Multiple areas on the fairgrounds exhibit elevated bacteria levels, due to the high concentrations of trash, people, vehicles and domestic animals (*SB Creeks, 2002*).

Since the findings from this study have been released, the City has addressed the contamination of water at the City Municipal Golf Course, which sits above Earl Warren Showgrounds (as well as other locations throughout the Arroyo Burro Watershed), by constructing a series of wetlands and detention basins (*SB Creeks, 2021*). These forms of management help reduce bacteria and other pollutants from entering the Las Positas creek. However, the water is then channelized below Earl Warren and does not address the pollution being directly expelled from the showgrounds.



This view is facing south towards the Pacific Ocean. The dotted line represents the channelized portion of the Las Positas Creek that runs under EWS (Earl Warren Showgrounds).



ARROYO BURRO ESTUARY

photo taken by: Katelyn Rheinschild

PROJECT JUSTIFICATION HEAT ISLAND EFFECT



URBAN HEAT ISLANDS

scale: NTS (T)



less severe

WHY DOES THIS MATTER?

The above diagrams indicate Earl Warren Showgrounds as a "more sever" zone for contributing to heat island effect. The mass amount of exposed asphault absorbs heat throughout the day and then release the heat throughout the evening, raising surrounding temperatures. An increase in temperatures in urbanized areas can lead to a decrease in environmental, energy, economic, and human health impacts. residential areas within a one mile and half mile radius are also indicated to be within a "heat risk priority zone".

Maps are credited to The Trust for Public Land, https://www.tpl.org/city/santa-barbara-california Demographic information is derived from ESRI 2021 Demographic Forecast Block Groups data.

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HEAT RISK PRIORITY ZONE

- ALLASTICH



residential areas within a heat risk priority zone

METHODOLOGY

PROJECT METHODOLOGY

STORM WATER MANAGEMENT

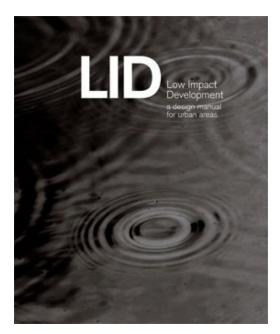
LID - Low Impact Development: A design manual for urban areas by University of Arkansas Community Design Center

- Implement the Watershed approach: slow, spread, soak
- Consider pixilated parking design and parking garden designs
- Determine the best LID facility selection:

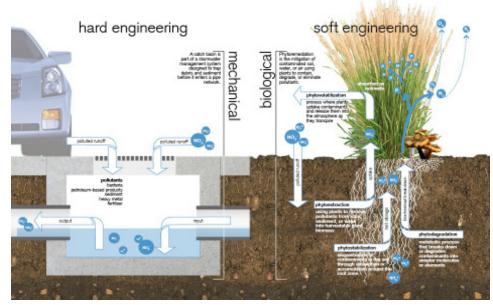
Dry swale	Infiltration trench
Surface or underground sand filter	Rain garden
Filter strips	Tree box filter
Pervious paving	Bioswale

Technical References

- Green Parking Lot Resource Guide EPA
- LID Parking Lots / Central California Coast Technical Assistance Memo
- Santa Barbara Storm Water BMP Guidance Manual



LID - Low Impact Development is the concept of taking "hard engineering" (mechanical network of pipes that transfer water from one place to the next) and making it work like "soft engineering" (using mechanisms such as phytoremediation to mitigate contamination or the watershed approach of, slow spread, soak). LID integrates both types of engineering to create an ecological-based stormwater management approach, connecting both urban and natural systems.



PARKING LOT DESIGN

Rethinking A Lot: Book by Eran Ben-Joseph

- Design and Culture of Parking
- Consideration of a lot's open interpretation
- Highlighting the flexibility, complexity, formal and informal uses
- If designed well, a lot of life can happen in a parking lot

COMMUNITY CONNECTIVITY

How to Turn a Place Around: A placemaking handbook by Project for Public Spaces (PPS)

Model for determining the success of a site by looking at the following criteria

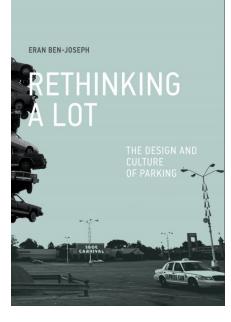
Sociability

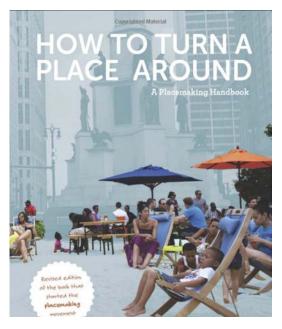
Uses & Activities

Comfort & Image

Access & Linkages

• Take note of common problems in failed public spaces and implement the solutions

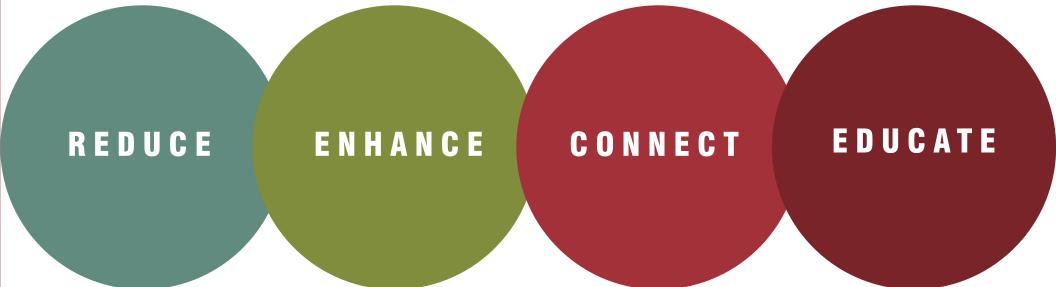






GOALS & OBJECTIVES

PROJECT GOALS & OBJECTIVES



GOAL: Reduce the downstream impact that Earl Warren Showgrounds contributes to the Arroyo Burro Watershed.

OBJECTIVE: Through the use of LID elements such as bioswales and permeable pavement.

GOAL: Enhance biodiversity and help mitigate heat island effect.

OBJECTIVE: Introduce both native and climate appropriate plantings as well increase shade coverage in exposed paved areas. **GOAL:** Develop a defined pedestrian and vehicular experience.

OBJECTIVE: Through creating entrances and pathways that safely connect the user throughout the site

GOAL: Bring awareness to how the design of urban infrastructure can effect our environment.

OBJECTIVE: Provide educational experiences through demonstration and interpretive signage.

REDUCE

GOAL: Reduce the downstream impact that Earl Warren Showgrounds contributes to the Arroyo Burro Watershed.

OBJECTIVE: Through the use of LID elements such as bioswales and permeable pavement.

- Bioswales
- Permeable surfacing
- Catch and recycle sytems









ENHANCE

GOAL: Enhance biodiversity and help mitigate heat island effect.

OBJECTIVE: Introduce both native and climate appropriate plantings as well increase shade coverage in exposed paved areas.

- Trees
- Native and climate appropriate planting
- Low water use
- Pollinator friendly

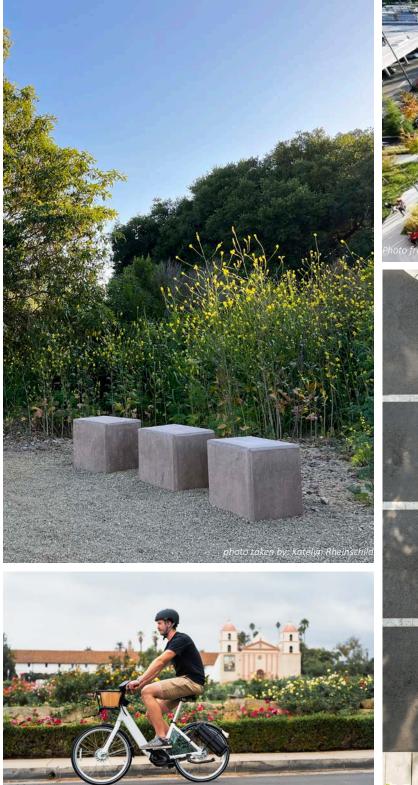


C O N N E C T

GOAL: Develop a defined pedestrian and vehicular experience.

OBJECTIVE: Through creating entrances and pathways that safely connect the user throughout the site

- Seating
- Shaded areas to gather or rest
- Bike share stalls
- Established safe pedestrian entry and exit
- Establish pedestrian access throughout the parking lot
- Designated flexible space for Fair & Expo, Farmer's Market and other Parking lot Events
- Venue signage
- Lighting







EDUCATE

GOAL: Bring awareness to how the design of urban infrastructure can effect our environment.

OBJECTIVE: Provide educational experiences through demonstration and interpretive signage.

- Interpretive signage
- Use of paving materials to inform
- Designated spaces to reflect



CASE STUDIES

PROJECT PRECEDENTS Swope Campus Parking And Entry Plaza

Designer BNIM Size 6.20 acres

Location

Kansas City Water Services, 4800 East 63rd St Kansas City, Missouri 64130 Former Land Use Retrofit

key takeaways

- The EWS parking lots have the potential to support pedestrian friendly circulation and LID elements, creating a more safe, attractive and productive parking experience.
- A variety of of different permeable pavements can also be implemented throughout the site



Swope Campus is a campus for the Kansas City Water services. When the campus's employee parking lot was showing signs of deterioration, the company decided to use this opportunity to showcase sustainable stormwater management practices. While addressing the parking lot was crucial, the company also wanted to improve pedestrian circulation and overall attractiveness.

Model Demonstration:

The project consists of four parking bays total. Each parking bay is assigned a different permeable paving material as well as an access port for data logging to asses paving performance. Under each of the bays is a 12" thick aggregate base for water storage and infiltration.

Circulation:

Each Parking Bay is linked with a pedestrian spine leading to the building's entry plaza (also a permeable paver). The perimeter walkway provides a safe and healthy exercise opportunity for employees.

Permeable Paving Material Used: Permeable Pavers-Type 1: Pavestone, "Eco-Venetian, Ashlar pattern" (Parking Bay)

Permeable Pavers-Type 2: Belgard, "Aqua Roc II in Herringbone 90" (Parking Bay)

Permeable Pavers-Type 3: Unilock, "Eco-line" (Entry Plaza)

ADA Pavers: Endicott Clay Products Company

Asphalt/Porous Asphalt: Vance Brothers (Parking Bay)

Pervious Concrete: Mega Industries (Parking Bay) UCLA || CAPSTONE 2022 || KATELYN RHEINSCHILD || 19

PROJECT PRECEDENTS SoFi Stadium

Designer Studio-MLA

Location 1001 Stadium Dr Inglewood, CA 90301

Size 45 acres

Former Land Use Old Hollywood Park (decommissioned) racetrack

key takeaways

- A large venue like EWS can have a dual function as a public space, and be used even when there is no event happening.
- EWS has the potential to support performative landscape features to help treat storm water runnoff before reaching the Arroyo Burro Creek.



"SoFi Stadium mutually benefits **public well-being** and **social values** combined with infrastructure, **climate resiliency**, and **green open space needs**." - Studio MLA

Project elements include:

- 70,000- seat stadium
- 2.5 acre outdoor covered American Airlines Plaza
- 6,000 seat YouTube theater
- 25 acres of open space with walking paths, plazas, seating, and gathering areas
- Performative landscape features such as bioswales, underground cisterns and rolling arroyos that work to collect, treat and reuse about 75% of the sites total stormwater
- 6 acre lake
- 12 acres of public green space surrounding the lake- small scale botanic gardens with signage displaying what each plant is and where it came from a series of planted terraces "canyons" leading one down to the stadium entrance (stadium is built 100ft below grade due to LAX flight path)

ANALYSIS

PROJECT USERS



SANTA BARBARA FAIR & EXPO

- uses parking lots for both guest parking and large scale rides
- 100' ferris wheel
- attracts around 48,000 visitors



EMERGENCY STAGING

- city, county and state fire & police departments
- national guard
- sb equine evac team



CIRCUS VARGUS

- 26,000 square foot blue tent
- 1,500 gallery seating
- pitched for 10 days mid-late June



RV PARK

- individual and group site rentals
- provides basic amenities
- 44 total sites

COMMUNITY SERVICE - SHOWERS OF BLESSING

- local non-profit organization serves people experi encing homelessness, by providing mobile hygenic
 care
- dog addoption events

POP-UP VENDORS

- farmers market
- festivals
- weekly swap meet

EXISTING CONDITIONS **PARKING LOTS**

photos taken throughout the day from 7am to 6:30pm





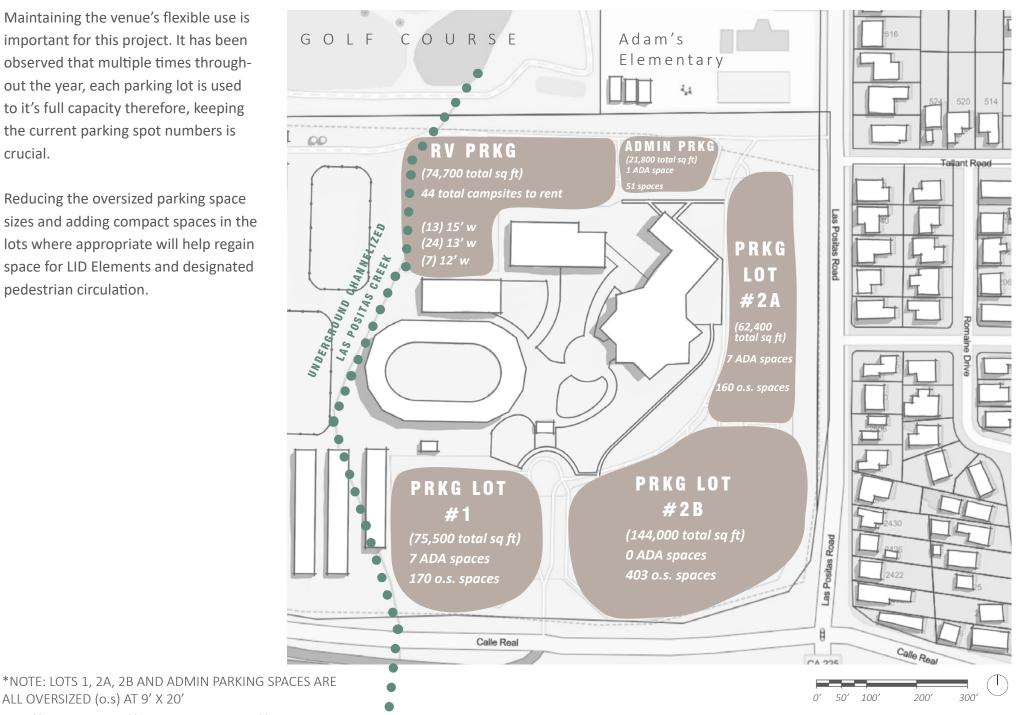


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SITE ANALYSIS **EXISTING PARKING LOT SPECIFICATIONS**

Maintaining the venue's flexible use is important for this project. It has been observed that multiple times throughout the year, each parking lot is used to it's full capacity therefore, keeping the current parking spot numbers is crucial.

Reducing the oversized parking space sizes and adding compact spaces in the lots where appropriate will help regain space for LID Elements and designated pedestrian circulation.



ALL OVERSIZED (o.s) AT 9' X 20' UCLA || CAPSTONE 2022 || KATELYN RHEINSCHILD || 24

SITE ANALYSIS EXISTING STORMWATER RUNNOFF

According to Santa Barbara County Water resources, document titled : Santa Barbara Annual Rainfall (station #234), the mean annual rainfall between 1900 and 2001 is recorded as 18.28 inches. This document also indicates January to receive the most amount of rainfall with a mean average of 4.06 inches per year and July to receive the least amount of rainfall with a mean average of .02 inches per year.

A quick area study of the parking lots being addressed in this project estimate the following,

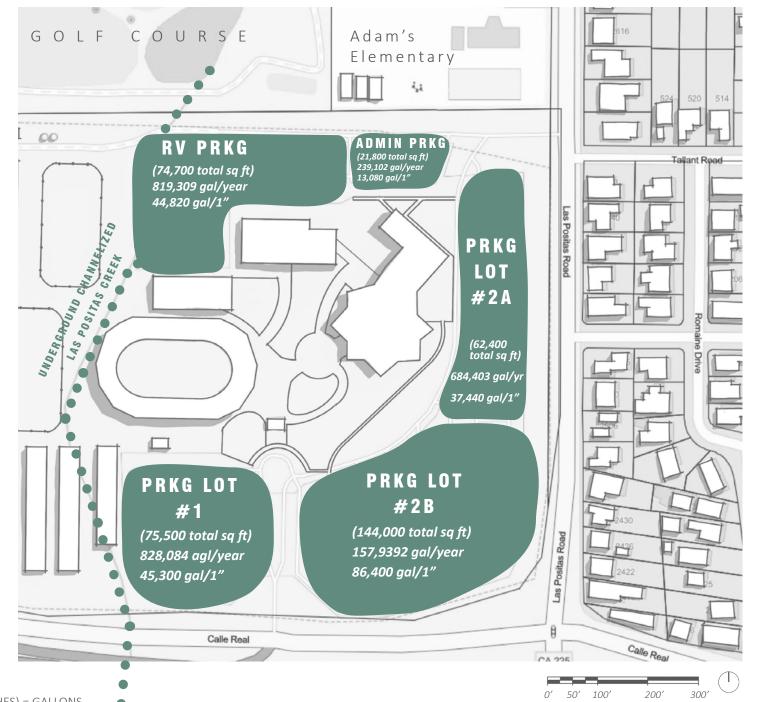
1. In one year, the Earl Warren Showgrounds parking lots will accumulate approximately: (356,294 sf) x (.6) x (18.28") = **3,907,832.6** gallons of stormwater runnoff

2. During Santa Barbara's rainy season, the month of **January** will accumulate approximately, (356,294 sf) x (.6) x (4.06") = **867,932.184** gallons of stormwater runnoff

3. In contrast, during Santa Barbara's dry season, the month of July will accumulate approximately,
(356,294 sf) x (.6) x (.02") = 4,275.5 gallons of stormwater runnoff

SB RECEIVES 18.28 AVERAGE INCHES / YEAR FORMULA USED (SQUARE FOOTAGE) x (.6) x (INCHES) = GALLONS **Collectively**, these parking lots **accumulate** 227,040 gallons of stormwater runnoff for every 1" of rainfall and **4,150,291** gallons of stormwater runnoff per year!

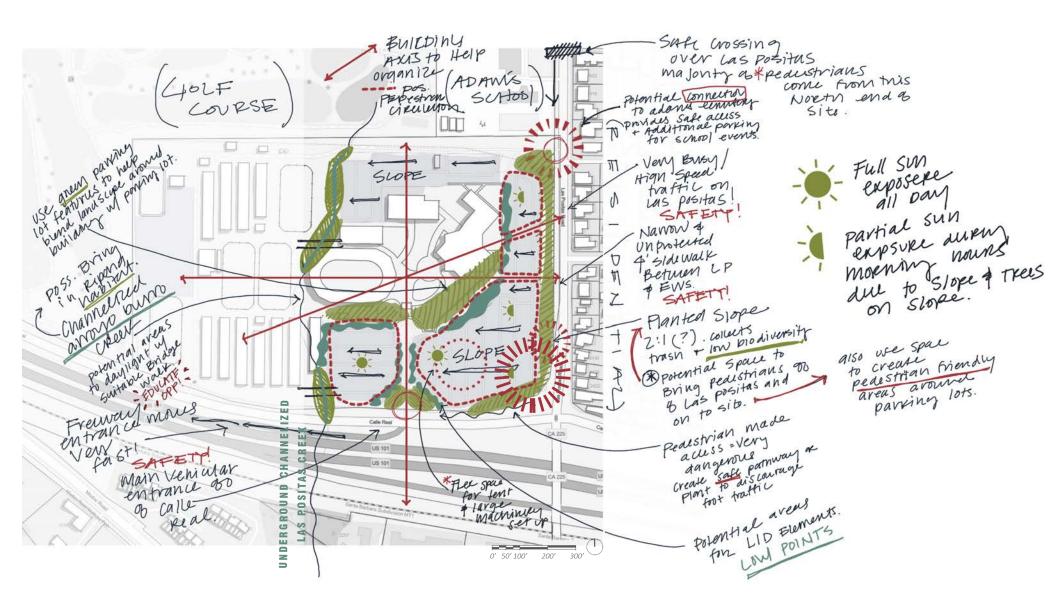
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SITE ANALYSIS INITIAL DIAGRAM

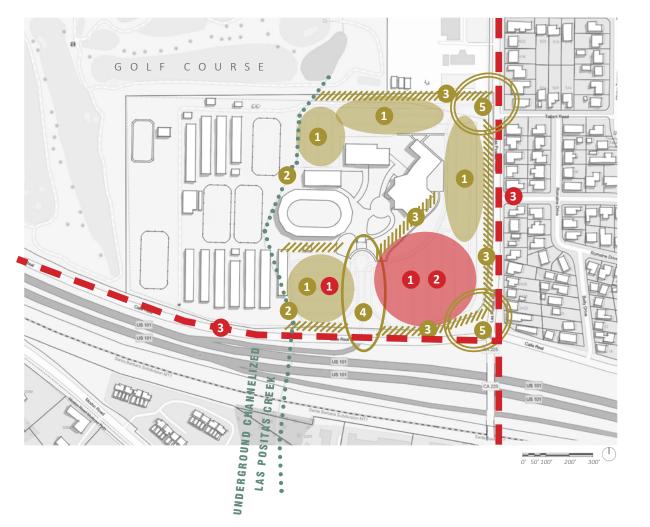


I looked closely at the slope direction that is happening with the lots, to help inform where my LID elements could be located as well as areas that I can develop better pedestrian entrances and further connections.



SITE ANALYSIS Opportunities & constraints





OPPORTUNITIES:

1. REDUCE PARKING SPACE SIZES AND OR SPACES WHERE APPROPRIATE

- implement storm water capture, treatment and onsite reuse

- add trees for shade canopy

2. HIGHLIGHT CHANNELIZED LAS POSITAS CREEK

- provide educational opportunity

- bring back native habitats / add biodiversity

3. UNDERUTILIZED EDGES

enhace biodiversity better connect the parking

lot to it's venue

- incorporate pedestrian circulation

4. ENHANCE VEHICULAR ENTRANCE AND TURN-AROUND

5. CONNECT TO NEIGH-BORHOODS ACROSS 101 FREEWAY AND LAS POSITAS THROUGH PEDESTRIAN ENTRANCES

CONSTRAINTS:

1. EMERGENCY STAGING LAYOUT

- emergency vehicles and equipment (i.e. dozers, trailers and excavators) may be larger than standard parking spaces. will need to design to accommodate parking space and circulation flexibility

2. MULTIPLE YEARLY NEED FLEXIBLE AREA FOR SETTING UP LARGE MACHINERY

3. INGRESS AND EGRESS ARE TO REMAIN ON BUSY STREETS

 other options would require using the golf course or Adam's elementary school property

SITE ANALYSIS **CIRCULATION**



S'''

1115

SITE INVENTORY

- 1. Gate "A"
- 2. Gate "B"
- 3. Utility gate
- 4. Ticket booth

5. Kramer Arena - 31,00 square feet with grans stand seating to accommodate 2,750 guests

6. Exhibit Hall- 22,000 square feet

7. Warren Hall 13,000 square feet

8. Admin Building

- 9. Earl's Place
- 10. RV Parking
- 11. Reception Garden
- 12. Admin parking (asphalt)
- 13. Asphalt parking lot #1
- 14. Asphalt parking lot #2A
- 15. Asphalt parking lot #2B
- 16. Warm-up ring #1
- 17. Warm-up Ring #2
- 18. El Camino Arena
- 19. Mountain View Arena
- 20. Livestock stalls
- 21. Equestrian offices
- 22. Hockey Arena
- 23. Restrooms
- 24. Maintenance sheds
- 25. Tanks
- 26. Asphalt parking lot (west)





pedestrian entrance at gate "A"

exhibit hall entrance / central plaza



pedestrian entrance at gate "B"

pedestrian entrance at gate "A"

CONCEPT DEVELOPMENT

DESLON METAPHOR HORSE SHOE

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DESIGN METAPHOR EXPRESSION

My design metaphor is a horseshoe, I have a couple different connections but the one that resonated with me the most was that, Horse shoes and parking lots are both products of societies civic evolution.

The horseshoe being through domestication of the horse specifically to the built environment, and the parking lot through societies chaotic boom of individual vehicular transportation.

The xpression I want to convey here is the idea of these two systems, one being the channelized creek and the other being the LID elements, coming together and leading the best path forward. This system was informed by the horse shoe shape.

Also a simple form I would like to repeat throughout the site.



PRELIMINARY CONCEPT BUBBLE DIAGRAM



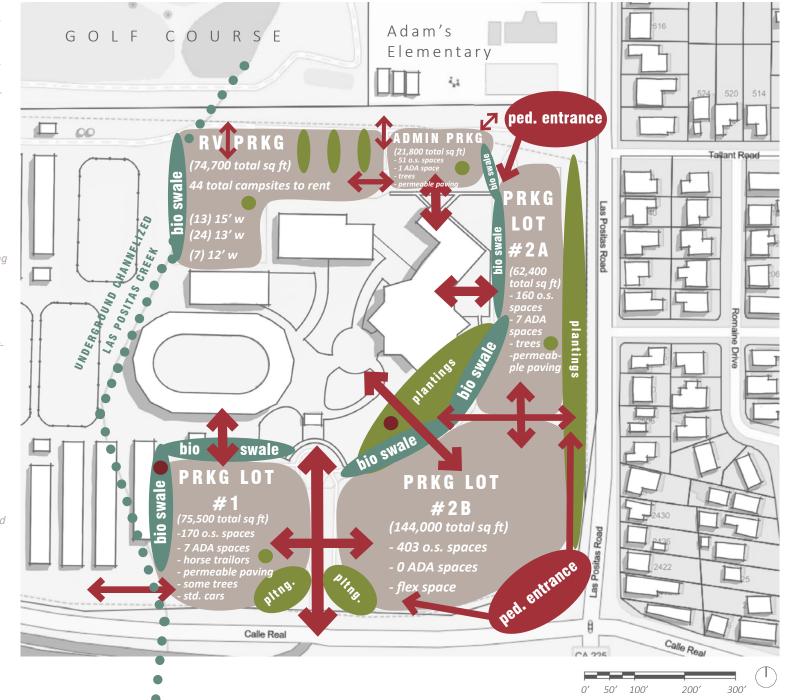


Use of colors and paving patterns to inform the visitor and reduce heat absorption. photo from masuplanning.com



Image conveying the naturalistic connection between the parking lot and venue. photo from sortiraparis.com

Pixilated tree placement to reduce impervious surfaces and mitigate heat island effect through shade cover. photo by Klaus Leidorf



CONCEPT 1: INTERCEPTION

This concept uses the Exhibit hall's architectural geometry to create a set of lines that intercept the current flow of water throughout the parking lots.

Other intercepting lines will be created through the parking lot design and will be either vegetation or permeable paving that will help slow, filter or capture storm water runnoff.

Major pedestrian pathways that run throughout the site will also be defined by these lines.

LEGEND

- 1. Gate "A"
- 2. Gate "B"
- 3. Pedestrian entrance 1
- 4. Pedestrian entrance 2
- 5. Parking lot #1
- 6. Parking lot #2A
- 7. Parking lot #2B
- 8. Admin parking
- 9. RV Parking
- 10. Admin Building
- 11. Ticket booth
- 12. Kramer Arena 31,00 square
- feet with grans stand seating to
- accommodate 2,750 guests
- 13. Exhibit Hall- 22,000 square
- feet
- 14. Warren Hall 13,000 square
- feet
- 15. Circus Vargus with a 26,000 sf blue tent





CONCEPT 2: CAR PARK

Car Park includes elements such as a reflection of the channelized Las Positas creek that replicates the natural system, providing habitat and an educational experience. This concept also introduces an architecture based grid to help organize the space in a more dynamic way.

Car Park includes safe and efficient pedestrian circulation throughout the site as well as maintaining stormwater management through the integration of tree pixelization, which also helps to mitigate heat island effect.

LEGEND

- 1. Gate "A"
- 2. Gate "B"
- 3. Pedestrian entrance 1
- 4. Pedestrian entrance 2
- 5. Parking lot #1
- 6. Parking lot #2A
- 7. Parking lot #2B
- 8. Admin parking
- 9. RV Parking
- 10. Admin Building
- 11. Ticket booth
- 12. Kramer Arena 31,00 square
- feet with grans stand seating to
- accommodate 2,750 guests
- 13. Exhibit Hall- 22,000 square
- feet
- 14 14/
- 14. Warren Hall 13,000 square
- feet
- 15. Circus Vargus with a 26,000
- sf blue tent

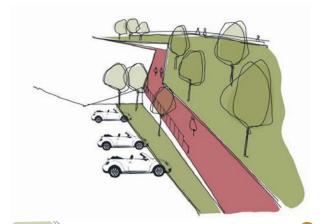


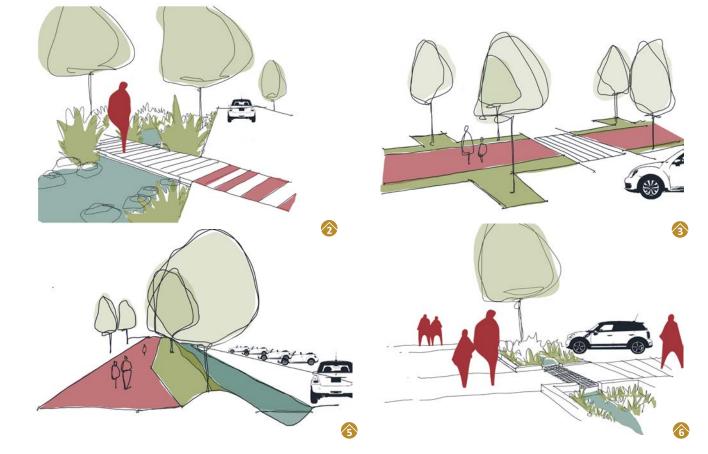




CONCEPT SKETCHES







NOTES





1. Pedestrian pathway leading from the corner of Las Positas and Calle Real where pedestrians can enter the venue seperate from vehicles.

2. A shallow depression positioned down slope and will collect, clean and absorb majority of the water that runs off of the parking lots.

3. Example of pedestrian pathway throughout parking lot 2A. Pedestrians are protected from vehicles with planting and trees.

4. Perspective is looking from the west edge of the main pedestrian walk that cuts through the parking lot. This pathway takes lot users directly to parking lot 2B where large lot festivities are often held, such as the yearly Circus, Fair and Expo and weekly swap meets.

5. Example of how the shallow depression positioned down slope of the parking lots will cellect water as well as provide a buffer between pedestrians and vehicles.

6. Perspective showing details in how water would move down the bioswale pathways and how pedestrians would move through the space.

CONCEPTUAL DESIGN

CONCEPTUAL DESIGN MASTER PLAN

This design takes the idea of mirroring the channelized portion of the Las Positas Creek, over to the right-hand side near the parking providing stormwater management, habitat and educational opportunities.

This design also focuses on providing pedestrian safe entrances separate from vehicular entrances as well as safe and efficient circulation throughout each parking lot.

LEGEND

- 1. Gate "A"
- 2. Gate "B"
- 3. Pedestrian entrance 1
- 4. Pedestrian entrance 2
- 5. Bus Stop
- 6. Parking lot #1
- 7. Parking lot #2A
- 8. Parking lot #2B
- 9. Admin parking
- 10. RV Parking
- 11. Las Positas Creek Replica
- 12. Event lawn
- 13. Bike Racks
- 14. Circus Vargus- 26,000 sf Blue Tent



300

200'

100'

50

ENHANCE CONNECT EDUCATE

REDUCE

CONCEPTUAL DESIGN **PARKING LOT 1** ENLARGEMENTS



TICKET BOOTH











Parking Lot 1, located at the bottom left of my site. This lot is often used for standard facility parking for entrances through the ticket booth as well as horse trailer housing in the event of an equestrian show, due to being directly connected to the equestrian facilities to the west. I have also provided bike racks to promote non-vehicular transportation and have extended the sidewalk to wrap around the lot, Where as before, ticket booth lines would stretch directly into the parking lot.

Parking Lot 2A (page 39), located at the upper right-hand side of the site. This lot is primarily used as standard parking for the Exhibit Hall entrance and other event overflow needs. In this parking lot, I incorporated three pedestrian pathways with bioswales flanking each side, that further connect to the reflected creek This enlargement also shows the use of permeable paving strips that run throughout the parking lots, intercepting the direction that the water flows throughout the parking lots, the main. Other than adding interest and helping to create a more dynamic space, these strips also help to slow down the flow of water and allow for the water to soak back into the ground. These UCLA || CAPSTONE 2022 || KATELYN RHEINSCHILD || 38

CONCEPTUAL DESIGN PARKING LOT #2A ENLARGEMENTS





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10'

60'

aa

20'

CONCEPTUAL DESIGN INTEGRATED BIOSWALE

Perspective specifically showing how the bioswales are integrated within the pedestrian circulation.

Here I wanted to emphasize the importance of the project through demonstration and try to mimic the natural watershed process through landscape elements such as this.

This perspective also shows the use of decorative permeable surfacing to identify compact spaces and the addition of tree canopies to provide comfortable temperatures for both vehicles and pedestrians.

KEY MAP





tree canopy provides comfortable

temperatures for both vehicls and

compact spaces are identified with a unique permeable paving pattern planted swales to provide phytoremediation opportunities ENHANCE CONNECT EDUCATE

REDUCE



CONCEPTUAL DESIGN CREEK REPLICA © PERSPECTIVE

REDUCE ENHANCE CONNECT EDUCATE

This perspective here shows the Las Positas creek replica which for most of the year would be a dry shallow rocky depression positioned down slope of the parking lots for when rain events do occur, the runnoff can be collected, cleaned and absorbed.

KEY MAP



lawn and horseshoe seating provide space for events or a space for rest and reflection

parking lot runoff enters creek replica through a series of curb cuts

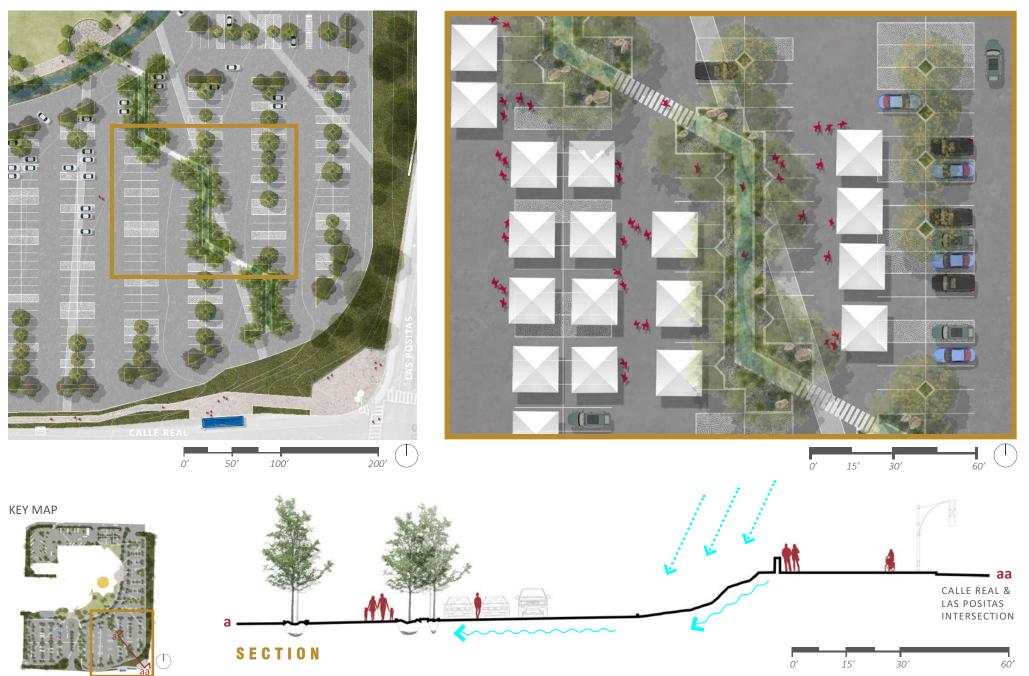
Platanus racemosa

trees are planted within and around

bioswales

CONCEPTUAL DESIGN PARKING LOT #2B ENLARGEMENT

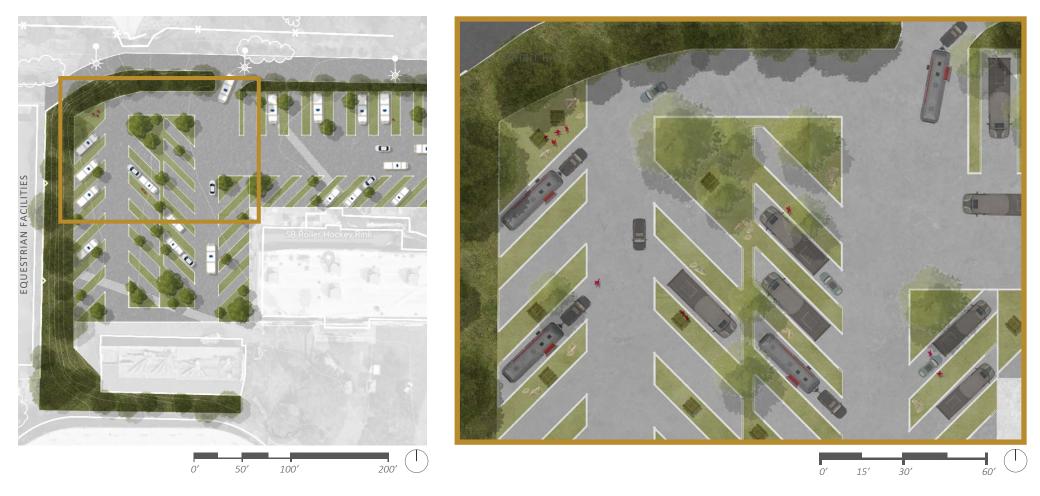




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CONCEPTUAL DESIGN **RV PARK** ENLARGEMENT









Parking lot 2B (page 42) is the lot used for a variety of events and needs to maintain its flexibility. This lot is where the yearly 26,000 square foot Circus Vargus tent, large fair and expo machinery and large emergency staging vehicles are mostly located. Here I have designed my pedestrian circulation and tree placement to accommodate these constraints. Enlargements on page 42 show the lot being occupied by the weekly swap meet. Similar to parking lot 2A, this lot consists of a pedestrian path that brings users from the southeast corner of the property and connects to the Creek replica.

RV PARK, I looked at rearranging the Site's RV Park to maximize green space while maintaining the sizes and quantities of all available campsites. I was able to expand the space between each campsite and adding greenery and benches by utilizing the adjacent unused restaurant's parking lot.

CONCEPTUAL DESIGN PARKING LOT #2B © PERSPECTIVE



example of interpretive signage from Santa Barbara Creeks Devision

This perspective shows how I plan to educate the community on the effects our landscapes have on our local watersheds through interpretive signage, paving patterns that reflect the flow of water, and bioswales that demonstrate how plants can help keep our oceans safe and clean!

KEY MAP



light colored permeable paving strips to help reflect heat

> interpretive signage explaining how this parking lot can help keep our oceans safe and clean

paving patterns that reflect the flow of water, replicating a watershed system

ENHANCE CONNECT EDUCATE

REDUCE

entrance that brings visitors bikers and pedestrians from the corner of Las Positas are brought off of Caland Calle Real down into the le Real Rd to enter Earl Warren Showgrounds

LAS POSITAS

This area also provides a pleasant view overlooking the vegetated and active parking lots, during an event. Unlike some common practices of trying to screen the parking lot, it was important to me to maintain the lots visibility while traveling along Las Positas, Calle Real and even highway 101 to help inform locals on the different events happing In the community

PERSPECTIVE This enlargement takes a closer look at the main pedestrian

site.

CONCEPTUAL DESIGN

AIN PEDESTRIAN ENTRANCE

safely

crosswalks connecting community members from nearby neighborhoods

KEY MAP





clear view of the park-

ing lot maintained to

allow commuters and

events

pedestrians to recognize

CONCEPTUAL DESIGN **PLANT PALETTE - TREES**





Quercus agrifolia Coast Live Oak

OSWALES PLANT ΡΔΙΕ B



Platanus racemosa California Sycamore



Jacaranda mimosifolia Jacaranda



Tipuana Tipu Tipu



Archtostaphylos 'PM' Pacific Mist Manzanita



Achillea millefolium Yarrow



Elymus condensatus Giant Wild Rye



Juncus patens Common Rush



Muhlenbergia rigens Deergrass

PLANT PALETTE - OTHER



Agave salmiana Deergrass Agave UCLA || CAPSTONE 2022 || KATELYN RHEINSCHILD || 46



Rhamnus 'MSB' Coffeeberry



Bouteloua q. 'BA' Blue Gramma



Fremontodendron ca Flannel Bush



Sage



Agave 'Blue Flame' Agave

CONCEPTUAL DESIGN MATERIALS MOOD BOARD





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CONCLUSION

A C H I E V E D : Through removing 69,155 sf of asphault and adding permeable or vegetated surfacing to help slow or treat runnoff. .

-



REDUCE

A C H I E V E D : Introduction of both

native and climate appropriate plantings while also adding 347 new trees.



A C H I E V E D : Through creating

entrances and pathways that safely connect the user throughout the site.



A C HIEVED: Provided educational experiences through demonstration and interpretive signage. In conclusion, I addressed each of my goals through multiple ways such as removing 69,155 square feet of impermeable asphault, introducing 347 new trees, creating a safe pedestrian entrance, and providing educational experiences to better inform the Santa Barbara community on ways landscape architecture can improve the health of our environment.

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CASE STUDIES (INCLUDING ALL PHOTOS)

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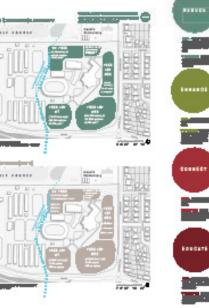
BOARDS



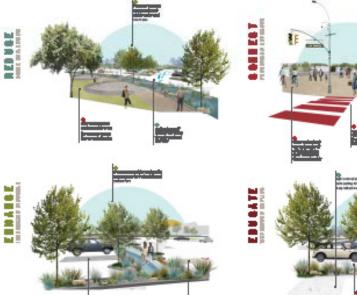
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REIMAGINING THE EARL WARREN FAILE ING LOT



REIMAGINING THE EARL WARREN PARKING LOT





CONCEPT DEVELOPMENT



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