LA RIVER RECREATION ZONE, 2013
274 YOUTH PARTICIPANTS
49 ADA PARTICIPANTS
MARSH PARK
THREE COMMUNITY PROGRAMS
100 PARTICIPANTS
TWO COMMUNITY VENDORS WERE GRANTED PERMITS FOR GUIDED TOURS
2,200 PARTICIPANTS
OVER 3,000 PEOPLE PARTICIPATED
2014 SEASON
“WET” Volunteer Docent/Interp program

MBU Volunteer patrol
QUESTIONS???
Doran Street and Broadway/Brazil Safety and Access Project
Project Objectives

- Improve safety by separating vehicle and pedestrians from trains at railroad crossings
- Maintain easy access for emergency responders to business and residential areas
- Develop context sensitive solution that will enhance mobility and quality of life for the community
At-Grade Crossings

- Incidents at Los Angeles County at-grade crossings over the last 5 years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Accidents</th>
<th>Fatalities</th>
<th>Injuries</th>
</tr>
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<tbody>
<tr>
<td>2009</td>
<td>24</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>2010</td>
<td>20</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>2011</td>
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<td>5</td>
<td>11</td>
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<tr>
<td>2012</td>
<td>20</td>
<td>9</td>
<td>19</td>
</tr>
<tr>
<td>2013</td>
<td>32</td>
<td>12</td>
<td>35</td>
</tr>
<tr>
<td>Totals</td>
<td>117</td>
<td>37</td>
<td>78</td>
</tr>
</tbody>
</table>

Source: Federal Railroad Administration
Project Introduction

- Background / Context
  - Crossing Locations
  - Doran History
  - Current Improvements
Approach to Alternatives Analysis

- Safety
- Two points of access
- Focus on traffic objectives
- Active Transportation
  - Pedestrians
  - Bicycle
- Consistency with L.A. River Revitalization Plan
Aerial Overview

Doran Street At-Grade Crossing

Broadway/Brazil At-Grade Crossing
Alternative: Doran Overpass

Doran at-grade crossing closed

Broadway/Brazil at-grade crossing remains open
Alternative:
Doran Overpass
Alternative: Fairmont and Salem/Brazil Overpass

- Doran at-grade crossing closed
- Broadway/Brazil at-grade closed

Extension of Glendale River Walk Path
Alternative: Fairmont and Salem/Brazil Overpass
Project Development Process

Current Phase of Work

- **Alternatives Analysis**
  - Fall 2013 - Spring 2014
  - Phase 1

- **Environmental Studies & Preliminary Engineering**
  - Spring 2014 - Spring 2015
  - Phase 2

- **Final Design**
  - Spring 2015 - Fall 2015
  - Phase 3

- **Construction**
  - Start: Summer 2016
  - Phase 4

---

PUBLIC INVOLVEMENT

Metro
Doran Street and Broadway/Brazil Safety and Access Project

Questions?
Los Angeles River Regional Bike Path

Upcoming LA County DPW Projects

• River Bikeway Plan – Whitsett Ave to Riverside Dr
• Los Angeles River Bikeway - Lankershim Blvd to Barham Blvd
Los Angeles River Bikeway Projects

LA County DPW River Bikeway Plan - Whitsett Ave to Riverside Dr

- LA City Projects
- LADWP Headworks Project - West of 134 FWY to 134 FWY
- LA County DPW Project - Lankershim Blvd to Barham Blvd
- Future Project - Lead to be Determined
Los Angeles River Bikeway – Lankershim Blvd to Barham Blvd
Local seed, local landscapes

Native Seed Resources Coalition

Nurturing a supply chain for native plants in Southern California

April 7, 2014

Ellen Mackey, Senior Ecologist,
Council for Watershed Health
and MWD of So. Cal.
Mission: To facilitate an inclusive consensus process to preserve, restore, and enhance the economic, social, and ecological health of the Los Angeles and San Gabriel Rivers Watersheds through education, research, and planning.

www.watershedhealth.org
Quick History/ Need for a Coalition

- **LA River Landscaping Guidelines**

- Stresses pairing a landscape architect/designer with an ecologist for designing

- Stresses soil testing and matching plants, water efficiency, & proper maintenance

- Stresses use of **locally native plants**

- Adopted by the LA Co. Board of Supervisors

Speakers from past meetings

- Tom Stoughton, Rancho Santa Ana Botanic Garden
- Jody Miller, S & S Seeds
- Robert Noll, Noll Seeds
- Shannon Lucas, Puente Hills Habitat Authority
- Katie VinZant, USFS, Angeles National Forest
- Mike Evans, Tree-of-Life Nursery
- Mie Joness, LADPW
- James Gannon, BLM
- Kate Kramer, SoCal Biology
- Even Meyer, Rancho Santa Ana Botanic Garden
- Christina Lund, California State Botanist, BLM
- Carol Armstrong, Director, LA River Project Office, LA City DPW
- Hayley Lovan, biologist, ACOE, Los Angeles District
- Erin Jones, biologist, ACOE, Los Angeles District

Junegrass (Koeleria macrantha)
Mission:

Striving to nurture an ethically-obtained, reliable supply of locally native plants for public landscaping and residential gardens . . .

hairy yerba santa
(Eriodictyon trichocalyx var. trichocalyx)

Products and pertinent info

Documents: monthly meeting minutes, notes and presentations online

Resources and References: links for pertinent publications and web links

Adding seed collection references

http://nativeseed.watershedhealth.org
Local seed, local landscapes
Why we should preserve local biodiversity?

- Appropriate for the insects / wildlife (wildlife at all levels)
- Water conservation (locally adapted)
- Long-term stability
- Landscape viability
- Need genetic diversity as insurance as we don’t know what genes will survive 100 years from now
- Disease resistance
- Appropriate to the climate and soils
- Greater success with genetically appropriate seeds
Why we should preserve local biodiversity?

Loss of local biodiversity is equivalent to:

-burning down your local library.

or

-randomly deleting ½ your hard drive.
Contract Language

- Agencies typically use “lowest bid”
- Sometimes contract with bidders with little successful native plant landscape experience
- Federal participants shared a “Best Value” approach
- Able to download fill-in-the-blank contract for seed collection

purple needlegrass (*Stipa pulchra*)
Why “Best Value” Contracts

• The Traditional Low-Bid Method: Under the traditional low-bid system of contracting, government contracts are awarded to the lowest responsible bidder, but very little investigation is undertaken to determine if a contractor actually qualifies as "responsible." Contracts are primarily awarded on low price alone.

• Flaws & Limitations of Low-Bid System: It is becoming increasingly evident that awarding projects to the low bidder can result in false economy if there is subsequent default, late deliveries, defective or substandard work, or other unsatisfactory performance. ~ Federal Acquisition Regulation ("FAR"), Section 9.103(c), 48 C.F.R. § 9.103(c).

• High Costs of Failed Contracts: Delayed and/or unsatisfactory performance greatly escalate contract costs and cause serious administrative and logistical problems for contracting agencies. These problems, plus excessive claims and change orders, also common on low-bid projects, translate into "total project" costs far in excess of the original "low bid" quoted.

• The "Best Value" Alternative: The best value approach allows contracting officials to closely examine, evaluate and rate contractors on their respective qualifications and performance capabilities and choose the best qualified contractor who offers the best price. The agency still always has the right to choose the low bid.

• Key Evaluation Criteria: Since it permits contracting agencies to more effectively screen bidders,
  
  Technical Qualifications     Project Planning     Past Performance     Quality Control     Management Personnel
  Safety Programs     Staffing Capabilities     Financial Capability     Subcontracting Plans

• Beyond Price: When it comes to judging a contractor's ability to successfully deliver a project, there are a lot of factors other than price that come into play. If an agency wants a quality project delivered on schedule and on budget, it is critical to evaluate contractors on the types of "non-price" factors referenced above.

• Permitted Under Current Law: Under current procurement law, federal departments and agencies already have the option, when they so determine, to utilize best value contracting procedures as an alternative to sealed bidding. See Federal Acquisition Regulation, Parts 6 and 15.

• Improving Quality, Cost & Efficiency: In recent years, the President and Congress have encouraged federal agencies to expand the use of best value in an effort to improve quality, cost and efficiency in government contracting, and as a means for reducing waste, fraud and abuse. See 1997 Revisions to FAR, Part 15 pursuant to Federal Acquisition Streamlining Act of 1994 and Executive Order of October 13, 1994.
Appropriate Propagules List

- **Separate lists** by purpose: Restoration or Landscaping

- **Sample list** by species and growth form

- **Propagule type:** seed, stem cuttings, root cuttings, containers

- **Rate:** best to poor

- May be too simplistic?

California rose (*Rosa californica*)
## Appropriate Propagules - Landscaping Projects

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Seed (Direct seeding)[1]</th>
<th>Stem Cuttings (live staking)</th>
<th>Root Cuttings (Rhizomes)</th>
<th>Container (from seed &amp; cuttings)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trees</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alnus rhombifolia</td>
<td>white alder</td>
<td></td>
<td></td>
<td>*</td>
<td>X</td>
</tr>
<tr>
<td>Juglans californica</td>
<td>southern California black walnut</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed)</td>
</tr>
<tr>
<td>Platanus racemosa</td>
<td>California sycamore</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed &amp; cuttings)</td>
</tr>
<tr>
<td>Populus fremontii ssp. fremontii</td>
<td>Fremont cottonwood</td>
<td>*</td>
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<td></td>
<td>X (seed &amp; cuttings)</td>
</tr>
<tr>
<td>Quercus agrifolia var. agrifolia</td>
<td>coast live oak</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed)</td>
</tr>
<tr>
<td>Quercus engelmannii</td>
<td>Engelmann or mesa oak</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed)</td>
</tr>
<tr>
<td>Quercus lobata</td>
<td>valley oak</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed)</td>
</tr>
<tr>
<td>Salix spp.</td>
<td>willow</td>
<td></td>
<td>X</td>
<td>* (cuttings)</td>
<td></td>
</tr>
<tr>
<td>Sambucus nigra ssp. caerulea</td>
<td>blue elderberry</td>
<td>*</td>
<td></td>
<td></td>
<td>X (seed)</td>
</tr>
<tr>
<td>Umbellularia californica</td>
<td>California bay laurel</td>
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</tr>
<tr>
<td><strong>Shrubs and Perennials</strong></td>
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### Appropriate Propagules — Restoration Projects

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<th>Scientific Name</th>
<th>Common Name</th>
<th>Seed [Direct seeding][1]</th>
<th>Stem Cuttings (live staking)</th>
<th>Root Cuttings (Rhizomes)</th>
<th>Container (from seed &amp; cuttings)</th>
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<td><strong>Trees</strong></td>
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<td></td>
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</tr>
<tr>
<td>3. <em>Alnus rhombifolia</em></td>
<td>white alder</td>
<td></td>
<td></td>
<td>*</td>
<td>X</td>
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<tr>
<td>4. <em>Juglans californica</em></td>
<td>southern California black walnut</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. <em>Platanus racemosa</em></td>
<td>California sycamore</td>
<td>*</td>
<td></td>
<td>X (seed &amp; cuttings)</td>
<td></td>
</tr>
<tr>
<td>6. <em>Populus fremontii ssp. fremontii</em></td>
<td>cottonwood</td>
<td></td>
<td>X</td>
<td>* (seed &amp; cuttings)</td>
<td></td>
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<tr>
<td>7. <em>Quercus agrifolia var. agrifolia</em></td>
<td>coast live oak</td>
<td>X</td>
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<td></td>
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<tr>
<td>8. <em>Quercus engelmannii</em></td>
<td>Engelmann or mesa oak</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>9. <em>Quercus lobata</em></td>
<td>valley oak</td>
<td>X</td>
<td></td>
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<td></td>
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<tr>
<td>10. <em>Salix spp.</em></td>
<td>willow</td>
<td>X</td>
<td></td>
<td>* (cuttings)</td>
<td></td>
</tr>
<tr>
<td>11. <em>Sambucus nigra ssp. caerulea</em></td>
<td>blue elderberry</td>
<td>*</td>
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<td>X (seed)</td>
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<tr>
<td>12. <em>Umbellularia californica</em></td>
<td>laurel</td>
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<td>* (seed)</td>
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<td>13. <em>Artemisia californica</em></td>
<td>sagebrush</td>
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<td>14. <em>Artemisia douglasiana</em></td>
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<td>15. <em>Artemisia sphaerocephala</em></td>
<td>calthub</td>
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<tr>
<td>Nursery</td>
<td>Location</td>
<td>Phone No.</td>
<td>Web Site</td>
<td>Locally Sourced Plants</td>
<td>Sells Native?</td>
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<tr>
<td>El Nativo Growers</td>
<td>200 South Peckham Rd Azusa, CA 91702</td>
<td>(626) 969-8449</td>
<td><a href="http://www.elnativogrowers.com">www.elnativogrowers.com</a></td>
<td>yes</td>
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<tr>
<td>Grow Native Nursery - Westwood</td>
<td>100 Davis Ave. Los Angeles, CA 90049</td>
<td>(424) 234-0481</td>
<td><a href="http://www.rsabg.org/gnn-westwood">http://www.rsabg.org/gnn-westwood</a></td>
<td>yes</td>
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<tr>
<td>Las Pilitas Nursery</td>
<td>8331 Nelson Way Escondido, CA 92026</td>
<td>(760) 749-5930</td>
<td><a href="http://www.laspiliitas.com">www.laspiliitas.com</a></td>
<td>yes</td>
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<tr>
<td>Matilija Nursery</td>
<td>8225 Waters Road Moorpark, CA 93021</td>
<td>(805) 523-8604</td>
<td><a href="http://www.matilianursery.com">www.matilianursery.com</a></td>
<td>yes</td>
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<tr>
<td>Mockingbird Nursery</td>
<td>1670 Jackson Street Riverside, CA 92504</td>
<td>(909) 780-3571</td>
<td><a href="http://www.mockingbirdnursery.com">www.mockingbirdnursery.com</a></td>
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<tr>
<td>RECON Native Plants, Inc.</td>
<td>1755 Saturn Boulevard San Diego, CA 92154</td>
<td>(619) 423-2284</td>
<td><a href="http://www.reconnativeplants.com">www.reconnativeplants.com</a></td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>SoCal Biology</td>
<td>P.O. Box 891331 Temecula CA 92589</td>
<td>(951) 970-8890</td>
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<td>yes</td>
<td>yes</td>
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<tr>
<td>Theodore Payne Foundation</td>
<td>10459 Tuxford Street Sun Valley, CA 91352</td>
<td>(818) 768-1802</td>
<td><a href="http://www.theodorepayne.org">www.theodorepayne.org</a></td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Tree of Life Nursery</td>
<td>33201 Ortega Highway San Juan Capistrano, CA 92693</td>
<td>(949) 728-0685</td>
<td><a href="http://www.californianativeplants.com">www.californianativeplants.com</a></td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
Durable Plants List

- can take abuse
- easy to prune
- seasonal color/texture/fragrance
- <4’ – 5’ tall (except small trees)
- very drought-tolerant
- easy to obtain seed & propagate in nursery
- provide seeds/nectar/ nesting material/cover for wildlife
- appropriate to the LA River watershed

- Deerweed (*Acmispon glabra*)
- Nevin’s barberry (*Berberis nevinii*)
- Hairy yerba santa (*Eriodictyon trichocalyx* var. *trichocalyx*)
- Buckwheat (*Eriogonum fasciculatum*)
- Poppies (*Eschscholzia californica*)
- Coffeeberry (*Frangula californica*)
- Spiny redberry (*Rhamnus crocea*)
- Golden currant (*Ribes aureum* var. *gracillimum*)
- Purple sage (*Salvia leucophylla*)
- Cane bluegrass (*Bothriochloa barbinodis*)
- Junegrass (*Koeleria macrantha*)
- Deergrass (*Muhlenbergia rigens*)
- One-sided blue grass (*Poa secunda* ssp. *secunda*)
- Crested needlegrass (*Stipa coronata*)
- Foothill needlegrass (*Stipa lepida*)
- Purple needlegrass (*Stipa pulchra*)
- Desert needlegrass (*Stipa speciosa*)
- Bush mallow (*Malacothamnus fasciculatus*)
- San Gabriel leather oak (*Quercus durata* var. *gabrielensis*)
Seed Collection Protocols

- Seed zones (high diversity area with differences between watersheds)
- As with many things – we may need to go species by species or group species
- Need input from seed collectors/ nurseries to “stay real”
- We need to start and may end with something different than expected
Proposed future meetings

- April 16
- May 21
- June 18
- Summer off?

spiny redberry (*Rhamnus crocea*)
Coalition Partners:

- Kristen Allison, BLM
- Joe Decruyenaere, LA Co. Regional Planning
- Mike Evans, Tree-of-Life Nursery
- Jody Miller, S & S Seeds
- Robert Noll, Noll Seeds
- Roger Haring, Agriculture Access
- Mie Joness, LACo. DPW
- Danielle LeFer, Palos Verdes Peninsula Land Conservancy
- Stephen Knutson, Stover Seeds
- Arlee Montalvo, RCRCD
- Janet Nickerman and Katie Vin Zant, USFS
- Bart O’Brien, April Garbat, Thomas Stoughton, RSABG
- Genevieve Arnold, Theodore Payne Foundation

San Gabriel leather oak
(*Quercus durata* var. *gabrielensis*)
Urban Waters Federal Partnership

Los Angeles River Watershed
Urban Waters Federal Partnership

- CONNECTING to Urban Waterways
- CATALYZE Economic Revitalization
- CLEAN & Accessible Waterways
- COMMUNITY Benefit (especially under-served or distressed)

Sustainable Methods – includes water conservation
Active Partnership, that engages community first
Leverage existing Assets
Break down agency silos
Local Priorities

- **Restore ecosystem functions**
- **Balance revitalization with flood avoidance to ensure public safety**
- **Maximize multi-benefit watershed goals and reduce reliance on imported water supply.**
- **Foster sustainable stewardship**
- **Foster diverse participation and equitable community benefits respectful of the power of place.**
Federal Agencies Participating

EPA
USDA • DOI
HUD • Transportation
USACE • NOAA • EDA
CDC • NIEHS • CNCS
Education • Energy
Urban Waters Locations

- Anacostia, DC/MD
- Patapsco–Baltimore, MD
- Bronx–Harlem, NY
- South Platte–Denver, CO
- **Los Angeles River Watershed, CA**
- Lake Pontchartrain–New Orleans, LA
- NW Indiana, IN
- Mystic River–Boston, MA
- Proctor Creek–Atlanta, GA
- Martin Pena Canal–Puerto Rico
- Middle Blue–Kansas City, MO
- Middle Rio Grande–Albuquerque, NM
- Passaic, NJ
- W. Lake Erie Basin–Toledo, OH
- Green–Duwamish–Seattle, WA
- Delaware–Cooper, DE
- Big–Meramec Rivers–St. Louis, MO
- Grand Rapids, MI
State of Urban Waters Program

- Leadership in Washington, DC
  - Continued engagement of partner agencies
- Small Grants, technical assistance, 5-star
  - Off the shelf and to the shovel projects
- LA as model for UW Toolbox
  - Feature best practices
- Ambassador
LA River Watershed Partnership

Federal Participants
- Bureau of Reclamation
- National Park Service
- US Army Corps of Engineers
- US Fish & Wildlife Service
- US Dept of Transportation
- US Forest Service
- National Weather Service
- USGS
- HUD

State and Local Govt
- State of CA
- Los Angeles County
- Cities of Los Angeles, Glendale, Long Beach, Gateway Cities

35+ Environmental, Community and other local stakeholder organizations
Continued Engagement

- Expand Federal Engagement
  - EDA
  - USDOT
  - HUD – Partnership for Sustainable Communities
  - VA
  - SBA
- Outreach to other cities
- Develop new opportunities – NGOs
  - Grassroots Representation
  - National Groups
LA River: Restoration

- ARBOR Study (City of LA/USACE)
- Climate Change/Basin Storm water Conservation Study (Reclamation)
- Sepulveda Basin Concrete Removal (USACE)
- E. San Pedro Bay Ecosystem (City of Long Beach)
- Arroyo Seco Watershed/Canyon (ASF)
- Compton Creek (LA County, Coastal Conservancy, Heal the Bay)
LA River: Connection & Recreation

- Indicators of Watershed Health (CWH)
- Open Rec Zone (City of LA, MRCA)
- LA River Natural Zone (CCCS)
- River Forecast Site (NOAA, LACC, MRCA, LARRC)
- Glendale Riverwalk (City of Glendale, NE Trees)
- De Anza Certification (NPS, City of LA)
LA River: Community & Economy

- NELA Riverfront Collaborative (NELA RC/HUD)
- Safe Routes to the River (MRCA, LAUSD)
- La Noria/Water Wheel (Metabolic Studios)
- Safe Routes to the River (MRCA, LAUSD)
- Greenway 2020 (LARRC)
- Engaging Financing (FRBSF, LARRC)
The Next 6 months

- Federal pathways for engagement
- Operations & Efficiencies
- 51 miles – Calling All Communities!
- Work Groups – capturing expertise
Contact
Pauline Louie
Watershed Ambassador
Urban Waters LA River Partnership
pauline@watershedhealth.org
213-229-9947

URBAN WATERS LOS ANGELES RIVER WORK PLAN
www.urbanwaters.gov
LOS ANGELES RIVER “IN CHANNEL” BIKE PATH
CONNECTING THE MISSING LINK

LinearCityDevelopment, LLC

wHY

Geosyntec consultants
CONTENTS

01  RE-Connecting LA
    LA River’s Long, Winding History
    Pedaling Los Angeles

02  Connecting The Missing Link
    The New Avenue to Downtown
    Bridging the Gap

04  A Story from the Path
    Uniting with the River
    An Ease of Access
    A View from the Path

03  Acupuncture in the River
    Minimal Intervention to Heal the Whole
    Nothing Added or Subtracted

05  Planning for Action
    Schedule for Operation
LA RIVER’S LONG, WINDING HISTORY

Portola Expedition finds a “good sized, full flowing river lined with lush greenery.”

Spanish colonists found El Pueblo de la Reina de Los Angeles and build Zanja Madre to deliver water to the pueblo.

1815 The Los Angeles River floods washed away the original Pueblo de Los Angeles.

1825 A flood caused swamps to be formed between the Pueblo location and the Ocean causing the River to flow southwesterly into its current location.

1910 The North Main Street Bridge was built

1914 A flood caused $10 million in damages throughout the developing basin, bringing public outcry for action to address the recurrent flooding problems.

1917 & 1924 Taxpayers approved bond issues to build the initial major dams.

1928 The North Spring Street Viaduct was completed

1931 The Washington Boulevard Bridge reached constructed completion of the Sixth Street Viaduct.

1938 The largest of two floods within the decade. The Red Cross deemed it the “fifth largest flood in history”, causing a request for Federal assistance. the Army Corps of Engineers took a lead role to channelize the River.

1938 Channelization begins with final completion in 1960.

1990 Congress authorized funding for the Army Corps of Engineers to study increased flooding along portions of the Los Angeles River, developing into a project to increase flooding capacity. When completed, the LACDA Project will prevent flooding from a 100-year rainfall to over 500,000 people in an 82-square mile area.

2007 The LA City Council adopted the Los Angeles River Revitalization Masterplan, recommending more than 240 projects, covering everything from flood control, water storage, safe public access, and restoring a functional ecosystem to make the River a focus for Activity.

“The Los Angeles River was a beatiful, limpid little stream with willows on its banks... it was so attractive to me that it at once became something about which my whole scheme of life was woven. I loved it so much.”

— William Mulholland
ON THE BIKE: PEDALING LA

The 2010 City of Los Angeles Bicycle Plan

The 2010 Proposal is to build off the existing 334 miles of Bike Paths established over the last 30 years to create a new ambitious network of 1,664 total miles within the City of Los Angeles.

The Plan recognizes the significant role of the LA River in the city’s identity and incorporates the River Revitalization Masterplan for the integration of bicycle paths.

Frequency of Bicycle Riders in the City

--

Class I - Bicycle Paths
Exclusive Car-free facilities.

Class II - Bicycle Lanes
Dedicated Lanes as part of the street design.

Class III - Bicycle-Friendly Streets
Shared Roadways; Typically Low-volume & Signaled Intersections.
THE NEW AVENUE TO DOWNTOWN

EST. TRAVEL TIME FROM IN-CHANNEL BIKE PATH

<table>
<thead>
<tr>
<th>BY FOOT</th>
<th>BY BIKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 MINS</td>
<td>15 MINS</td>
</tr>
<tr>
<td>10 MINS</td>
<td>&lt;5 MINS</td>
</tr>
<tr>
<td>25 MINS</td>
<td>10 MINS</td>
</tr>
<tr>
<td>45 MINS</td>
<td>20 MINS</td>
</tr>
<tr>
<td>5 MINS</td>
<td>&lt;5 MINS</td>
</tr>
</tbody>
</table>

DODGER STADIUM
LOS ANGELES STATE HISTORIC PARK
WALT DISNEY CONCERT HALL
GRAND PARK
UNION STATION
7TH STREET METRO CENTRAL
FINANCIAL DISTRICT
LA LIVE
DOWNTOWN ARTS DISTRICT

Within the City of LA, the LA River Corridor is Home to:
More than 1 million people (2000 Census)
More than 390,000 housing units (2000)
More than 480,000 workers (2000)
More than 35,000 businesses (2003)
More than 80 schools (2004-5)
THE MISSING LINK
BRIDGING THE GAP

"This is a critical milestone in our efforts to free the L.A. River from its concrete straitjacket and make it a place of nature and recreation."

A 3.1 mile (check number) stretch from Riverside Drive at the north end to Atlantic Boulevard to the South. Etc. Etc.
UNITING WITH THE RIVER

The L.A. River drops farther in altitude in 51 miles than the Mississippi river does in 2000 miles from Wisconsin to the Gulf of Mexico.
AN EASE OF ACCESS

Since 1995, public agencies, nonprofits, and adjacent communities have built more than 25 public parks along the river. And the City of L.A. and L.A. County have built or renovated 25 miles of riverside bikeways.
A VIEW FROM THE PATH

The first 32 miles of the River (within the City of Los Angeles) flows through 7 US Congressional Districts, 10 Council Districts, 20 neighborhood Council areas, and 12 Community Plan areas.
MINIMAL INTERVENTION TO HEAL THE WHOLE

Just as acupuncture seeks to heal disruptions in energy flow, leading to disease, through minimal, precise insertions, the new Los Angeles River In-Basin Bike Path takes only a minimal construction of 6” thick concrete to connect an entire Los Angeles bicycle network to create a new, powerful energy for healthy city arteries.
A fissure in the artificial river embankment creates a new tributary to the Los Angeles River -
A flow of people and bicycles are invited into the most important resource of the City.

To create a flat surface ramp from the top of the bank to the In-Channel path at the bottom,
an amount of construction is added equal to the amount of earth subtracted away resulting in
no change to the net volume of the channel.
SIXTH STREET ENTRY

RENDERING OF FUTURE SIXTH ST. VIADUCT (PROPOSED COMPLETION 2018)

EXISTING RIVER ACCESS / PROPOSED ACCESS ARCADE TO IN-CHANNEL BIKE PATH

RAIL TRACK OVER-PASS, ABOVE
LINE OF 6TH ST. BRIDGE, ABOVE
PROPOSED IN-CHANNEL BIKE PATH
WASHINGTON BOULEVARD ENTRY

- Proposed ramp down to in-channel bike path
- Proposed in-channel bike path
- Rail track overpass
- Proposed bike path to connect to Washington Blvd
<table>
<thead>
<tr>
<th>Month</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
<td>City Council motion to Implement the completion of the In-Channel bike path</td>
</tr>
<tr>
<td>April 2014</td>
<td>Assemble design and engineering team</td>
</tr>
<tr>
<td>July 2014</td>
<td>Submit Draft of the Studies:</td>
</tr>
<tr>
<td></td>
<td>1. Hydrology</td>
</tr>
<tr>
<td></td>
<td>2. Civil drawings</td>
</tr>
<tr>
<td></td>
<td>3. Structural plans and calculations</td>
</tr>
<tr>
<td></td>
<td>4. Safety Plan</td>
</tr>
<tr>
<td></td>
<td>5. Weather information system</td>
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<tr>
<td></td>
<td>6. Construction budget</td>
</tr>
<tr>
<td></td>
<td>7. Points of Access design</td>
</tr>
<tr>
<td></td>
<td>8. Maintenance plan</td>
</tr>
<tr>
<td>July - September</td>
<td>Preliminary Review:</td>
</tr>
<tr>
<td></td>
<td>United States Army Corps of Engineers</td>
</tr>
<tr>
<td></td>
<td>Los Angeles City Bureau of Engineering</td>
</tr>
<tr>
<td></td>
<td>Los Angeles City Department of Water and Power</td>
</tr>
<tr>
<td></td>
<td>Los Angeles City Fire Department</td>
</tr>
</tbody>
</table>
LA RIVER VETERAN TRIBUTE PARK

COMMUNITY BASED PLANNING PHASE

CONCEPT DESIGN/IMPLEMENTATION PLAN
Context – Sepulveda Basin
US Army Corps of Engineers

Los Angeles County Flood Control District

City of Los Angeles Dept. of Recreation & Parks

City of Los Angeles Bureau of Engineering

City of Los Angeles Bureau of Sanitation
## PROJECT PARTNERS

<table>
<thead>
<tr>
<th>Partnership</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>California National Guard Armory, Van Nuys</td>
<td></td>
</tr>
<tr>
<td>LA City Bureau of Engineering</td>
<td></td>
</tr>
<tr>
<td>LA City Dept. of Recreation &amp; Parks</td>
<td></td>
</tr>
<tr>
<td>LA City Mayor Eric Garcetti’s Office</td>
<td></td>
</tr>
<tr>
<td>LA City Office of District 6 Councilwoman Nuri Martinez</td>
<td></td>
</tr>
<tr>
<td>State Senate District 27, Senator Fran Pavley</td>
<td></td>
</tr>
<tr>
<td>State Assembly District 45 Assemblyman Matt Dababneh</td>
<td></td>
</tr>
<tr>
<td>Urban Waters Federal Partnership</td>
<td></td>
</tr>
<tr>
<td>US Army Corps of Engineers</td>
<td></td>
</tr>
<tr>
<td>U.S. Congressional District 30 Rep. Brad Sherman</td>
<td></td>
</tr>
</tbody>
</table>
Context – Veterans
To provide opportunities for community involvement in the planning and design of the proposed park, and the development of stewardship ideas for the park once it is fully constructed.
An Implementation Plan that is a “community stakeholder consensus blueprint” on how to develop and then operate and maintain the park in a safe and secure manner as envisioned in the Concept Design; and

That is compatible with the “guidelines” of the various governing and permitting authorities, including:

- US Army Corps of Engineers
- City of LA Dept. of Recreation & Parks
- LA River Master Plan (LA County)
- LA River Revitalization Master Plan (LA City)
Introduction to planning – design – development process

- Brainstorm list of design elements
- Begin to address “Project Evaluation Criteria”, including:
  - Storm Water Retention
  - Water Conservation & Water Quality Practices
  - Habitat/Ecosystem Restoration
  - Operations & Maintenance
  - Safety & Security
Prioritize list of design elements
Address scale for prioritized design elements
Conceptually examine detail alternatives for prioritized design elements
Refine solutions that address “Project Evaluation Criteria”
Presentation of two project design alternatives

- Review two (2) project design alternatives & reach consensus on the preferred alternative
- Finalize “approaches” to Project Evaluation Criteria
GUIDING PRINCIPLES

- All workshop participants will have adequate opportunity to provide input at each workshop
- All design elements are compatible with the LA River Master Plan (LA County) and LA River Revitalization Master Plan (LA City)
- All recreational elements are passive in nature
- Project will not modify LA River channel, nor impact flow or capacity of LA River
- Project implements BMPs for maximizing on-site capture, retention and/or infiltration of storm water
- Project implements water conserv. practices and/or tech. (e.g. smart or weather-based irrig., S. Calif. friendly plants, water efficient fixtures)
- Project provides or facilitates safe and permissible public access to the river
- Park will be designed to be multi-generational with generous opportunities for respectful and meaningful interaction with veterans
- Park will provide respite space for veterans
- Park will provide job training opportunities for veteran
WATER QUALITY:

- How this Park could improve the overall water quality of the LA River
- How to ensure Park will not generate pollutants (trash, pet waste, oil, chemicals, etc.)
LARCC Project Evaluation Criteria

WATER QUALITY:

• How this Park could improve the overall water quality of the LA River
• How to ensure Park will not generate pollutants (trash, pet waste, oil, chemicals, etc.)
ECOSYSTEM RESTORATION IDEAS FOR:

- Creating new native habitat or ecosystem opportunities on site
- Using native plants that also are historic LA River riparian/wetland species
- Vegetation improvements that would support threatened wildlife species
- Habitat connectivity to upstream, downstream and upland areas as applicable
- Creating, restoring, or enhancing natural hydrological processes
FACILITIES, AMENITIES, PROGRAMMING:

• Passive recreation elements/areas
• Aesthetic enhancements
• Multi-generational facilities, amenities and programming that serve veterans, students and their parents, seniors, and residents
• Facilities that maximize on-site capture, retention and/or infiltration of storm water –
• Specific water conservation practices and/or technologies (e.g. smart or weather-based irrigation devices, California friendly plants, water efficient fixtures)
• Specific water reuse practices/technologies such as gray water or recycled water systems
OPERATIONS & MAINTENANCE IDEAS:

- Who (what responsible party) could operate and maintain this Park – can include partnerships and other creative ideas that do not involve either the City, County or Army Corps being the responsible party

- Identifying and/or developing sustainable funding solutions for operation and maintenance of the Project for at least 20 years after construction complete – again, looking for creative ideas that do not involve either the City, County or Army Corps being the responsible party

- Providing adequate access for LACFCD and/or US Army Corps maintenance on the LA River
SECURITY, SAFETY AND LIABILITY SOLUTIONS:

- Fencing
- Surveillance
- On-site personnel
- Access & hours of operation
- Rules & Regulations
- Etc.
High Tech High Design Class
High Tech High Design Class
High Tech High Design Class
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #1
Design Workshop #2
Design Workshop #2
Design Workshop #3
Design Workshop #3
Design Workshop #3
Design Workshop #3

Entry walk view toward amphitheater

View toward bridge and restroom
Facilities/Site Elements

- Veteran Respite Area
- Veteran Wall of Honor
- Amphitheater w/ Shade Structures
- Pond & Bioswales Managed for Habitat
- Memorial Tree Groves
- Native Shrub Areas Managed for Habitat
- Meadow Grass Area Picnic & Passive Use
- Restroom
- Interpretive Panels & Artifacts
- River Overlook Area
- Permeable Parking Area
- ADA Accessible DG Paths
- Permeable Concrete Vehicular Access Path
- Bike Path with Solar Lighting
- Exercise Stations
- Perimeter Fencing
- Motion Detection Lighting
Final Concept Design – Entry
**Final Concept Design – Veteran Respite Area**

**Concept Plan**
LA River Veterans Tribute Park 3/31/14

**Legend**
- Trees
- Native shrubs: managed for habitat
- Pedestrian Path
- Meadow grass: managed for passive use
- Pond: managed for habitat
- Commemorative artifacts & displays

Potential managed entry & parking
Storage & Restroom
Interpretive Displays & Artifacts
Amphitheater
Picnic
Pond

River Trail

[Diagram of LA River Veterans Tribute Park with various features and labels indicated]
Final Concept Design – Entry Sketch
Final Concept Design – Overlook Sketch
Final Concept Design – Bike Path Sketch
Final Concept Design – View to Pond Sketch
LA CONSERVATION CORPS

HIGH SCHOOL STUDENT COMMUNITY SERVICE/ PROJECTS

MOU WITH USACOE, LA CITY RAP, NATIONAL GUARD ARMORY

PARK WILL BE FENCED WITH GATES – OPEN & CLOSE SUNRISE TO SUNSET

LAPD, LA CITY FIRE DEPT., LA COUNTY FLOOD CONTROL DISTRICT ACCESS ROAD

MOTION SENSOR SECURITY LIGHTING

VETERAN JOB TRAINING
<table>
<thead>
<tr>
<th>GUIDING PRINCIPLES – DID WE MEET THEM?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALL WORKSHOP PARTICIPANTS WILL HAVE ADEQUATE OPPORTUNITY TO PROVIDE INPUT AT EACH WORKSHOP</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>ALL DESIGN ELEMENTS ARE COMPATIBLE WITH THE LA RIVER MASTER PLAN (LA COUNTY) AND LA RIVER REVITALIZATION MASTER PLAN (LA CITY)</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>ALL RECREATIONAL ELEMENTS ARE PASSIVE IN NATURE</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PROJECT WILL NOT MODIFY LA RIVER CHANNEL, NOR IMPACT FLOW OR CAPACITY OF LA RIVER</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PROJECT IMPLEMENTS BMPS FOR MAXIMIZING ON-SITE CAPTURE, RETENTION AND/OR INFILTRATION OF STORM WATER</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PROJECT IMPLEMENTS WATER CONS.PRACTICES / TECH. (E.G. SMART/WEATHER-BASED IRRIG., S. CAL. FRIENDLY PLANTS, WATER EFFICIENT FIXTURES)</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PROJECT PROVIDES OR FACILITATES SAFE AND PERMISSIBLE PUBLIC ACCESS TO THE RIVER</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PARK WILL BE DESIGNED TO BE MULTI-GENERATIONAL WITH GENEROUS OPP. FOR RESPECTFUL AND MEANINGFUL INTERACTION WITH VETERANS</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PARK WILL PROVIDE RESPITE SPACE FOR VETERANS</strong> - <strong>YES</strong></td>
</tr>
<tr>
<td><strong>PARK WILL PROVIDE JOB TRAINING OPPORTUNITIES FOR VETERAN</strong> - <strong>YES</strong></td>
</tr>
</tbody>
</table>
# PARK DEVELOPMENT BUDGET

<table>
<thead>
<tr>
<th>Description</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Coordination &amp; Construction Management (Assumes 36 months total development time)</td>
<td>$215,000</td>
</tr>
<tr>
<td>Performance Bond (1% of Develop. Budget)</td>
<td>$50,000</td>
</tr>
<tr>
<td>Community Outreach</td>
<td>$48,000</td>
</tr>
<tr>
<td>Technical Studies, CEQA, SWPPP</td>
<td>$125,000</td>
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<tr>
<td>Construction Documents</td>
<td>$180,000</td>
</tr>
<tr>
<td>Permits</td>
<td>$32,658</td>
</tr>
<tr>
<td><strong>Sub-Total Pre-Construction Costs</strong></td>
<td><strong>$650,658</strong></td>
</tr>
<tr>
<td>Overall Site Prep - Includes Demolition, Grading, &amp; Irrigation POC (Water Meter, BFP, Booster Pump)</td>
<td>$450,000</td>
</tr>
<tr>
<td>Facility 1 Parking Lot - Includes Permeable Concrete Paving, Signage and Decorative Entry Gate</td>
<td>$158,000</td>
</tr>
<tr>
<td>Facility 2 - Veteran Tribute Walk/Wall of Honor &amp; Exercise Stations - Includes Landscape &amp; Irrigation</td>
<td>$916,750</td>
</tr>
<tr>
<td>Facility 3 - Picnic Areas - Includes DG Paths, Picnic Tables, Benches, Restroom &amp; Storage Building, Sewer</td>
<td>$428,400</td>
</tr>
<tr>
<td>Facility 4 - Native Habitat Areas - Includes Landscape, Irrigation, and Bioswale Installation</td>
<td>$110,750</td>
</tr>
<tr>
<td>Facility 5 - Amphitheater &amp; Pond Area</td>
<td>$275,000</td>
</tr>
<tr>
<td>Facility 6 - Bike Path - Includes Permeable Concrete Paving, Fencing, Gates, Solar Lighting</td>
<td>$1,146,480</td>
</tr>
<tr>
<td>Facility 7 - LA River Overlook w/All Veteran Service Flags, Seat Walls, Interpretive Signs</td>
<td>$100,000</td>
</tr>
<tr>
<td>Facility 8 - Safety, Maintenance &amp; Misc. Features - Includes Motion Sensor Lighting, Perimeter Tubular Steel Fence, Bike Racks, Drinking Fountains, Trash Receptacles</td>
<td>$108,000</td>
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<tr>
<td><strong>Total Construction Cost</strong></td>
<td><strong>$3,693,380</strong></td>
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<tr>
<td><strong>Construction Contingency</strong></td>
<td><strong>$554,007</strong></td>
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<tr>
<td><strong>Project/Grant Administration/Overhead</strong></td>
<td><strong>$424,739</strong></td>
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<tr>
<td><strong>Total Pre-Dev. + Admin. + Construction Cost</strong></td>
<td><strong>$5,322,784</strong></td>
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</tbody>
</table>
### Next Steps

- Conduct Design Workshops
- Complete Implementation Plan
- Present Implementation Plan to the LA River Cooperation Committee
- Approval of the Implementation Plan by the LA River Cooperation Committee
- Approval of Implementation Plan by LA County
- Approval of Implementation Plan by LA City
- Approval of Implementation Plan by USACOE
- CEQA Requirements Completed
- Design-Development Funding Acquired
- Construction Documents Completed
- Permits Acquired
- Construction Begins
- Construction Complete
<table>
<thead>
<tr>
<th>Funding Suggestions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Veterans, DOL, DOE, ETC. Funding</td>
</tr>
<tr>
<td>Corporate Sponsorship</td>
</tr>
<tr>
<td>Private Foundations</td>
</tr>
<tr>
<td>Memorial Walk - Plaques</td>
</tr>
<tr>
<td>Wall of Honor – Private Donations for Sections</td>
</tr>
<tr>
<td>Memorial Grove – Private Donations for Benches, Trees</td>
</tr>
<tr>
<td>Adopt a Park</td>
</tr>
<tr>
<td>LA County Prop. A</td>
</tr>
<tr>
<td>City of LA</td>
</tr>
<tr>
<td>State Grants</td>
</tr>
</tbody>
</table>
Larry Smith
Community Development Director
lsmith@lacorps.org
(818)424-6582
DESIGN CONSTRAINTS

1. Minimize supports in the riverbed.
2. Maintain freeboard at the top of the embankments.
3. Maintain clearance at MTA service road on east bank.
4. Maintain clearance from power lines on east bank.
TAYLOR YARD PEDESTRIAN BRIDGE

BIKE PATH  LOS ANGELES RIVER  TAYLOR YARD

THE PATH
TAYLOR YARD PEDESTRIAN BRIDGE

ELYSIAN VALLEY

RIVER

TAYLOR YARD

RAILROAD TRACKS

PLANTED EMBANKMENT TO MEET RIVER
MASTERPLAN GOALS

BIKE SPEED MITIGATION DEVICES

REST ZONE

GROUND AND AIR QUALITY INFILTRATION GROVE

BIKE PATH

PEDESTRIAN PATH

RAILROAD CROSSING (IF REQUIRED)

REST ZONE

GROUND AND AIR QUALITY INFILTRATION GROVE

BIKE PATH

PEDESTRIAN PATH

BRIDGE PLAN
BRIDGE CROSS SECTION

BRIDGE PLAN DETAIL
WESTERN GOLDENROD
HIGH SUPPLEMENTAL WATER

RUSH
MODERATE SUPPLEMENTAL WATER

MUGWART | LOW
SUPPLEMENTAL WATER

CREEPING WILD RYE | PERFORMS
WITH NO SUPPLEMENTAL WATER

CALIFORNIA SYCAMORE

MAINTENANCE ROAD

ALL PLANTING COMPATIBLE WITH
LA RIVER MASTER PLAN PLANT PALETTE
VIEW TOWARDS ELYSIAN VALLEY
BIKEWAY / BRIDGE GATEWAY AT NIGHT