

Safe, Clean Water Program

Central Santa Monica Bay

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Thursday, February 20, 2020
10:00am - 12:00pm
Veterans Memorial Complex – Garden Room,
4117 Overland Avenue, Culver City, CA 90230

Attendees

Committee Members Present:

Liz Crosson (Los Angeles)
Gloria Walton (SCOPE)
Liz Jones* (LA Waterkeeper)
Kim Braun* (Culver City)
Josette Descalzo (Beverly Hills)
Katie Mika (LA Bureau of Sanitation)

Rita Kampalath (LA County CEO)
Darryl Ford* (LA Recreations & Parks)
Alex Heide* (West Basin)
Neal Shapiro (Santa Monica)
Delon Kwan (LADWP)
Carolina Hernandez* (LACFCD)

Committee Members Not Present:

Ackley Padilla (Los Angeles)
Jeff Camp (Los Angeles)
Jacob Lipa (Lipa Consulting)
Bruce Hamamoto* (LA County)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Liz Crosson, the Chair of the Central Santa Monica Bay WASC, called the meeting to order.

All committee members made self-introductions, and a quorum was established.

2. Approval of Meeting Minutes from February 6, 2020

The District provided a copy of the meeting minutes from the previous meeting. Liz Crosson asked the committee members for comments or revisions.

Gloria Walton requested an update to the February 6 Minutes. Updates have been shown in red in the February 6 Minutes.

Josette Descalzo made a motion to approve the meeting minutes. Darryl Ford seconded the motion. The Committee voted to approve the meeting minutes (unanimous).

3. Public Comment Period

A public comment noted that the imperial highway medians are not well maintained, that she supports the Imperial Highway Sunken Median Project, and passed out a handout to committee members. She requested that the Committee consider the Imperial highway median project for funding.

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4. Committee Member and District Updates

Kirk Allen provided the District update, noting that the Watershed Coordinator statement for qualifications will release in April, with the bids due in May; the WASC would be involved with selection of the Watershed Coordinators; the fund transfer agreement is expected for public review in March, with board approval in May; the General Low Income Tax Reduction form is now available online; stipends for committee members are now available for eligible committee members and that stipends are retroactive for past meetings attended; and that the final project scores are now available.

Liz Crosson inquired if the fund Transfer Agreement would be one template or two for the two programs. Kirk Allen clarified that there would be one template for Municipal Program Transfer Agreement and one template for the Regional Program Transfer Agreement.

Liz Crosson inquired when the first tax disbursement would take place. Kirk Allen clarified that tax revenue will be available in May, and that disbursements will be ready once the transfer agreements are executed with each municipality. Liz Crosson noted that municipalities will have to go through their own internal approval process before the City would be able to finalize the Transfer Agreement.

Carolina Hernandez inquired for Attachment E of the project summary, if the estimates are capital as well as maintenance costs. Kirk Allen clarified that not all projects have identified O&M costs, but all project applicants are eligible to include long term maintenance into their estimates. Carolina Hernandez requested that, where possible, all applicants provide O&M.

5. Discussion Items:

a) Ex Parte Communication Disclosures

Alex Heide noted that he was previously aware of the Burton Way project as part of the IRWM program.

Liz Jones noted that she was part of the Our Water LA meeting where the group had discussions on various Safe Clean Water Projects.

Josette Descalzo noted that he is having outside discussions on the SCW projects.

Delon Kwan and Katie Mika has had internal city meetings on various SCW Projects.

b) Presentations from the Regional Program Funding Applicants

i) Venice High School (LAUSD)

Neal Shapiro inquired if the school explored tank storage on site. LAUSD noted that the grey water systems were explored but were ultimately found not feasible.

Liz Jones inquired if the project could take on additional stormwater from offsite. LAUSD noted that there are legal challenges with bringing contaminates onto school property.

Gloria Walton inquired if O&M would be contracted out for the project. LAUSD noted that maintenance would be done in house. Gloria Walton further inquired what DAC benefits the project was providing. LAUSD noted that the magnet program allows students to integrate into the school programs and help disadvantaged communities.

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Liz Crosson inquired how this project specifically will benefit DAC. LAUSD noted that certain portions of the facilities and classrooms are designed to aid children with special needs.

Josette Descalzo inquired how quickly the project could be turned around for the next round of funding. LAUSD noted that the project will be ready for the next round of projects.

ii) Beverly Hills Burton Way Green Street and Water Efficient Landscape Project (Beverly Hills)

Neal Shapiro inquired if there are wells onsite for irrigation. Beverly Hills noted that there are no current stormwater diversions, so this will be the first project to implement this feature.

Alex Heide inquired if this project is over an aquifer. Beverly Hills noted that this project is able to infiltrate.

Gloria Walton inquired how the project would provide a flood benefit. Beverly Hills noted that this project will take stormwater off the system, providing additional capacity downstream.

Gloria Walton inquired if the public would have access to the site. Beverly Hills noted that the first blocks of the median will be accessible, but the remaining blocks will be only plantings and not accessible.

Liz Crosson inquired if this project has been identified as a priority project. Beverly Hills noted that this is a priority project for the City and is listed as one of the projects in the EWMP.

Gloria Walton inquired if labor for the project will be contracted out. Beverly Hills noted that the City has the equipment available to maintain the project, but that the City would contract out the labor if was necessary.

iii) Ballona Creek TMDL Project (Los Angeles)

Neal Shapiro inquired why ozone was chosen vs ultraviolet. Los Angeles noted that there technical challenges with this site and that it was cost prohibitive to go with ultraviolet.

Josette Descalzo inquired why funding is requested for 2021 when the project does not start until 2022. Los Angeles noted that he was unable to answer that question currently, but would reach out to others at the City to help answer this question.

Liz Jones inquired why the application did not include leveraged funds but it is included in the presentation. Los Angeles noted that he was unable to account for that discrepancy, but that the City has already covered other costs previously for this project.

Gloria Walton inquired if the landscape plan is part of the community enhancement portion of the project. Los Angeles noted that the landscape plan is still under development.

Gloria Walton inquired if the City would handle O&M. Los Angeles noted that the City would handle maintenance for the project.

Gloria Walton inquired if the project would provide access to the water in the creek for recreation. Los Angeles noted that the bike path alongside the creek is present, but there's no plans to provide public interaction directly with the water in the creek.

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iv) Imperial Highway Sunken Median (Los Angeles)

Carolina Hernandez inquired if there had been any changes to maintenance from the initial plan. Los Angeles noted that the site is currently not maintained as Prop O did not cover maintenance, and that Safe Clean Water (SCW) funding would now provide funding for maintenance.

Carolina Hernandez inquired what would happen to the project if SCW funds were not awarded. Los Angeles noted that maintenance would continue to be deferred with only a portion of the maintenance covered by municipal funding.

Alex Heide inquired if there has been coordination on maintenance between the partner cities. Los Angeles noted that he was unaware of the ongoing conversations, but that the other city partner was aware of the project.

Josette Descalzo inquired what funding would cover for this project. Los Angeles noted in his presentation the various maintenance costs that would be covered by SCW funding.

Gloria Walton inquired if community organizations would be coordinated with to develop local jobs. Los Angeles noted that they are working with local communities and groups to explore labor opportunities but that the site was potentially hazardous due to traffic and other roadway dangers.

6. Voting Items:

None

7. Discuss Future Meeting Dates/Times

This item was removed from the agenda.

8. Items for next agenda

Kirk Allen noted that the District is preparing a SIP Development Tool to help the WASC with that process. Tentatively, the tool should be ready for the next meeting. Carolina Hernandez noted that this tool would be a great help to develop the SIP, and that it would likely be an iterative process.

Liz Crosson requested committee members come to the next meeting with an idea on rankings for the various projects. Delon Kwan requested an overview of the SIP approval process up through the Board.

Liz Crosson requested that all project applicants be asked to come back to provide input to the committee for the next meeting.

Alex Heide noted that for IRWM, committee members have asked applicants the minimum funding they would be willing to take, which could allow for a larger portion of projects to receive some funding.

Liz Jones and Carolina Hernandez inquired if the agenda could provide additional public comment opportunities throughout the meeting.

9. Adjournment

Liz Crosson thanked the committee members and public for their time and participation and adjourned the meeting.

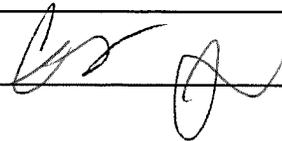
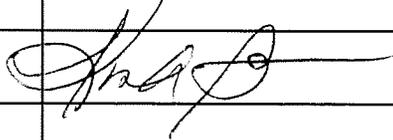
Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Cung Nguyen	FCD	CUNGUYEN@dpw.lacounty.gov	P	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
E.J. Caldwell	West Basin	edwardc@westbasin.org	P	
Alex Heide	West Basin	alexanderh@westbasin.org	A	
Cathie Santo Domingo	Los Angeles Recreation & Parks	cathie.santodomingo@lacity.org	P	
Darryl Ford	Los Angeles Recreation & Parks	Darryl.Ford@lacity.org	A	
Katie Mika	Los Angeles - Sanitation	kathryn.mika@lacity.org	P	
Ariel Flores	LA Sanitation and Environment	ariel.flores@lacity.org	A	
Delon Kwan	Los Angeles Department of Water and Power	delon.kwan@ladwp.com	P	
Art Castro	Los Angeles Department of Water and Power	art.castro@ladwp.com	A	
Rita Kampalath	LA County Chief Sustainability Office	RKampalath@ceo.lacounty.gov	P	
Gary Gero	LA County Chief Sustainability Office	ggero@ceo.lacounty.gov	A	
Jacob Lipa	Lipa Consulting Company	jacob@lipaconsulting.com	P	
Alysen Weiland	PSOMAS / Balancing the Natural and Built Environment	aweiland@psomas.com	A	
Gloria Walton	SCOPE	gwalton@scopela.org	P	

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Bruce Reznik	LA Waterkeeper	bruce@lawaterkeeper.org	P	
Liz Jones	LA Waterkeeper	liz@lawaterkeeper.org	A	
Ackley Padilla	Los Angeles	ackley.padilla@lacity.org	P	
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Lauren Amimoto	Inglewood	lamimoto@cityofinglewood.org	A	
Jeff Camp	Los Angeles	jeff.camp@lacity.org	P	
Josette Descalzo	Beverly Hills	jdescalzo@beverlyhills.org	P	
Hany Demitri	West Hollywood	Hdemitri@weho.org	A	
Liz Crosson	Los Angeles	liz.crosson@lacity.org	P	
Susie Santilena	Los Angeles	susie.santilena@lacity.org	A	
Neal Shapiro	Santa Monica	Neal.shapiro@smgov.net	P	
Rick Valte	Santa Monica	rick.valte@smgov.net	A	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	P	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	A	

Central Santa Monica Bay
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Bruce Hamamoto	Los Angeles County	BHAMAMO@dpw.lacounty.gov	A	

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Conor	Mossavi	LADWP	conor.mossavi@ladwp.com
DEREK	NGUYEN	City of Beverly Hills	DNGUYEN@BeverlyHills.org
Scott	Singletery	LAUSD	scott.singletery@lausd.net
Julia	Hawkinson	LAUSD	julia.hawkinson@lausd.net
Lori	Selna	LAUSD	cp-lori.selna@lausd.net
Kate	Hamel	CWE	khamel@cwecorp.com
Brian Lamar	Stewart	LA county	realstewartenterprises@gmail.com
Nichole	Heil	LAANE	nheil@laane.org
Dave	Mercier	Michael Baker	dmercier@mbakerintl.com
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Andre	Harris	LA SAN	andre.harris@LAcity.org
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Jon	Aselson	Stanrec	jonathan.aseison@Stanrec.com
Brett	Perry	LA SAN	brett.perry@lacity.org
Issam	Dahdul	LAUSD	issam.dahdul@lausd.net

*Signing or completing this form is voluntary for members of the public

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



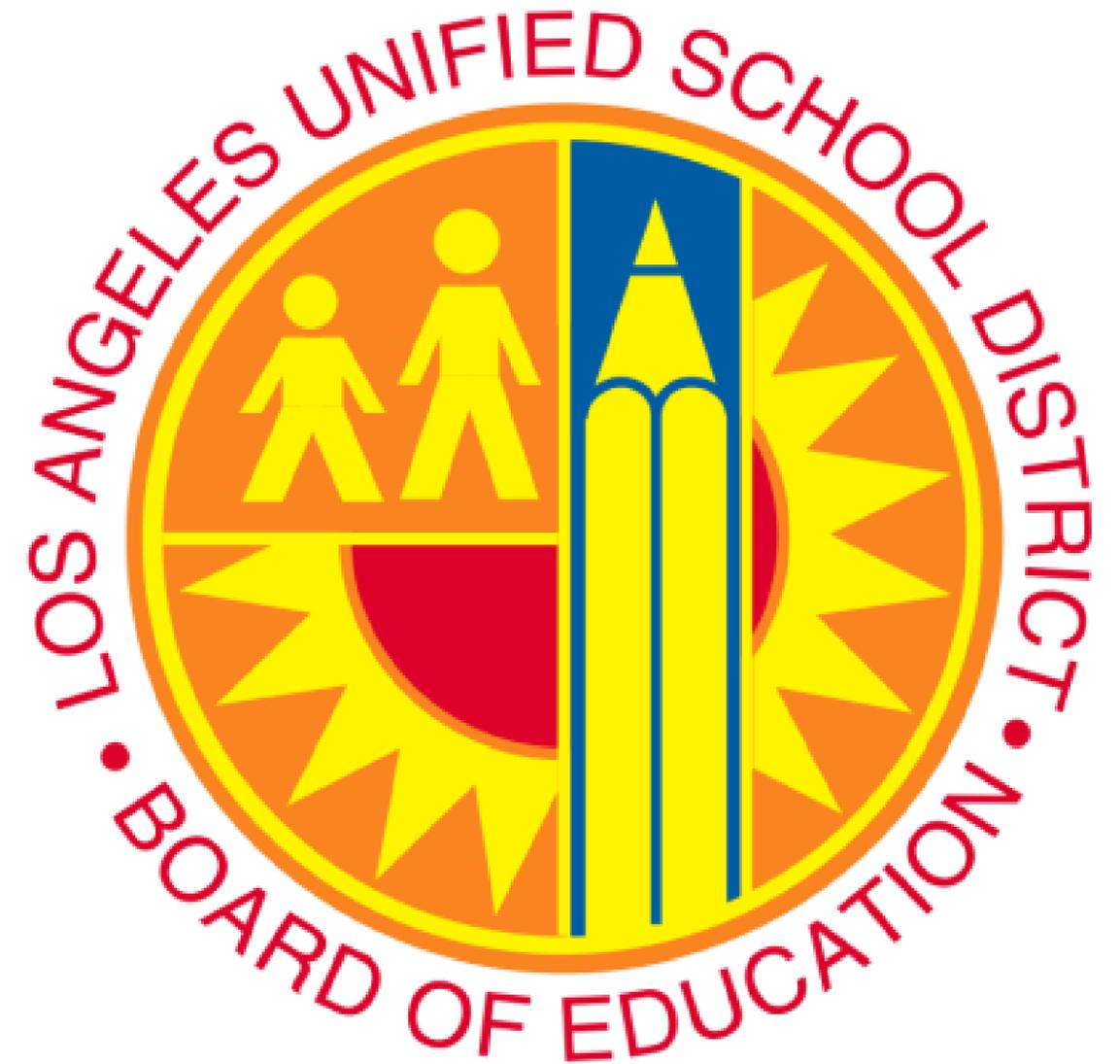
First Name	Last Name	Municipality/Organization	Email Address
Lucy	Han	Friends of the Ingle	lucyhan4@aol.com
Jim	BURTON	ECOKA	JBURTON@ECOKA.COM
Amy	Meenan	LAUSD	amy.meenan@lausd.net
Matt	Mogener	West Hollywood	mmogener@weho.org
Gordon	Haines	City of LA Sanitation	gordon.haines@lacity.org

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Venice High School

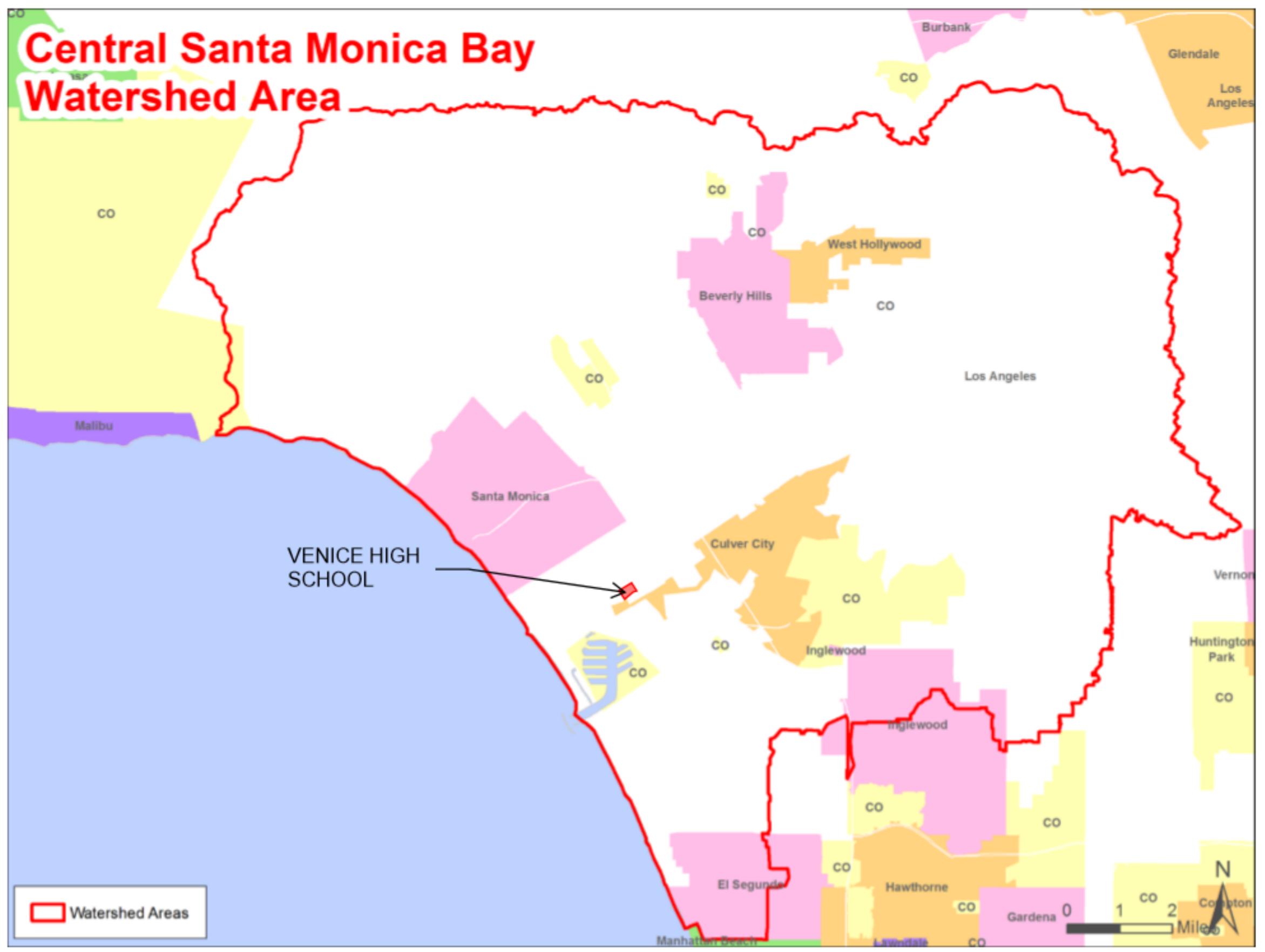


Comprehensive Modernization
Stormwater Capture Review
February 20, 2020



Total Measure W Funds Requested:
\$5,893,250

Central Santa Monica Bay Watershed Area



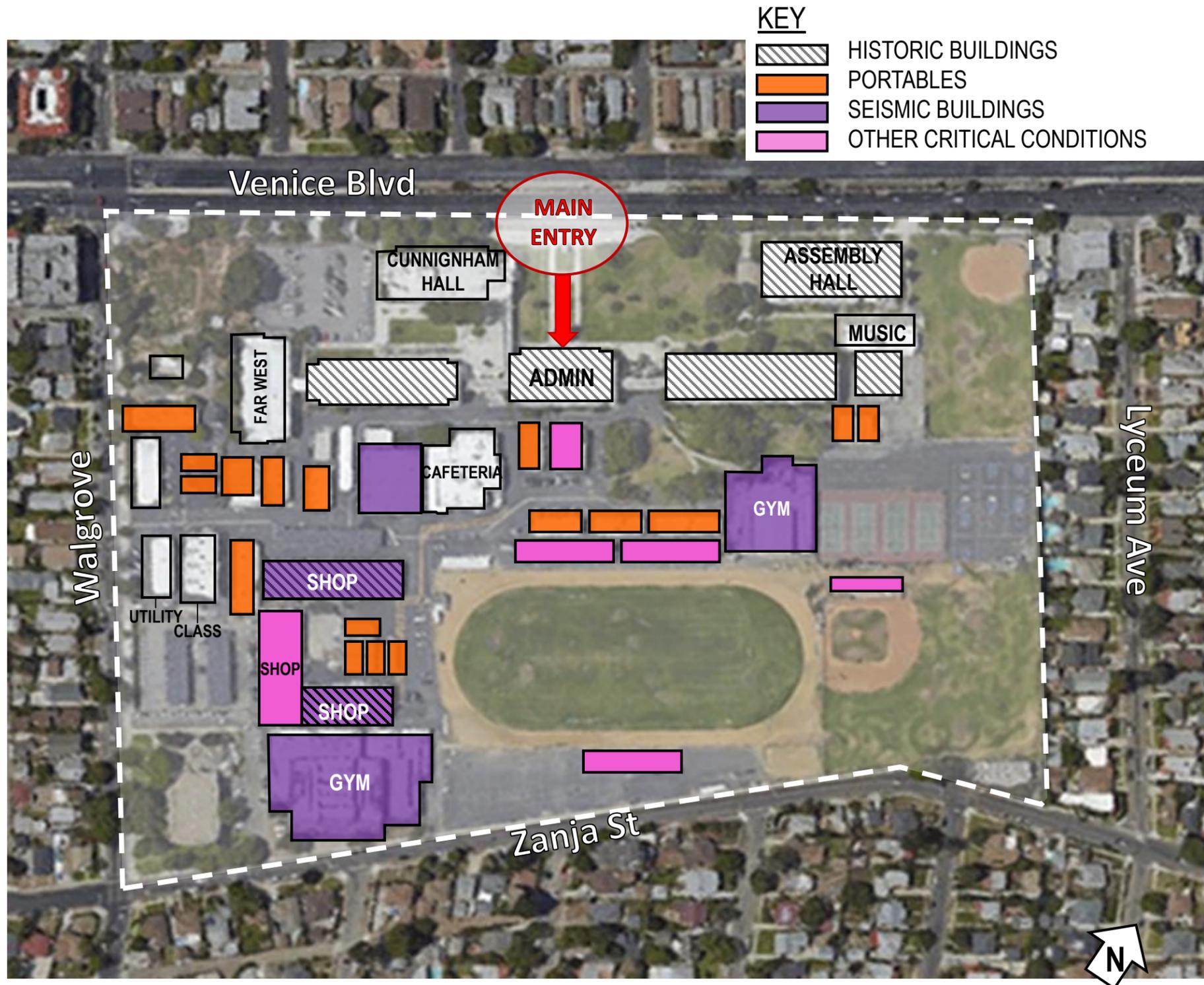
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VENICE HIGH SCHOOL – Watershed Area

Venice High School

Site Analysis



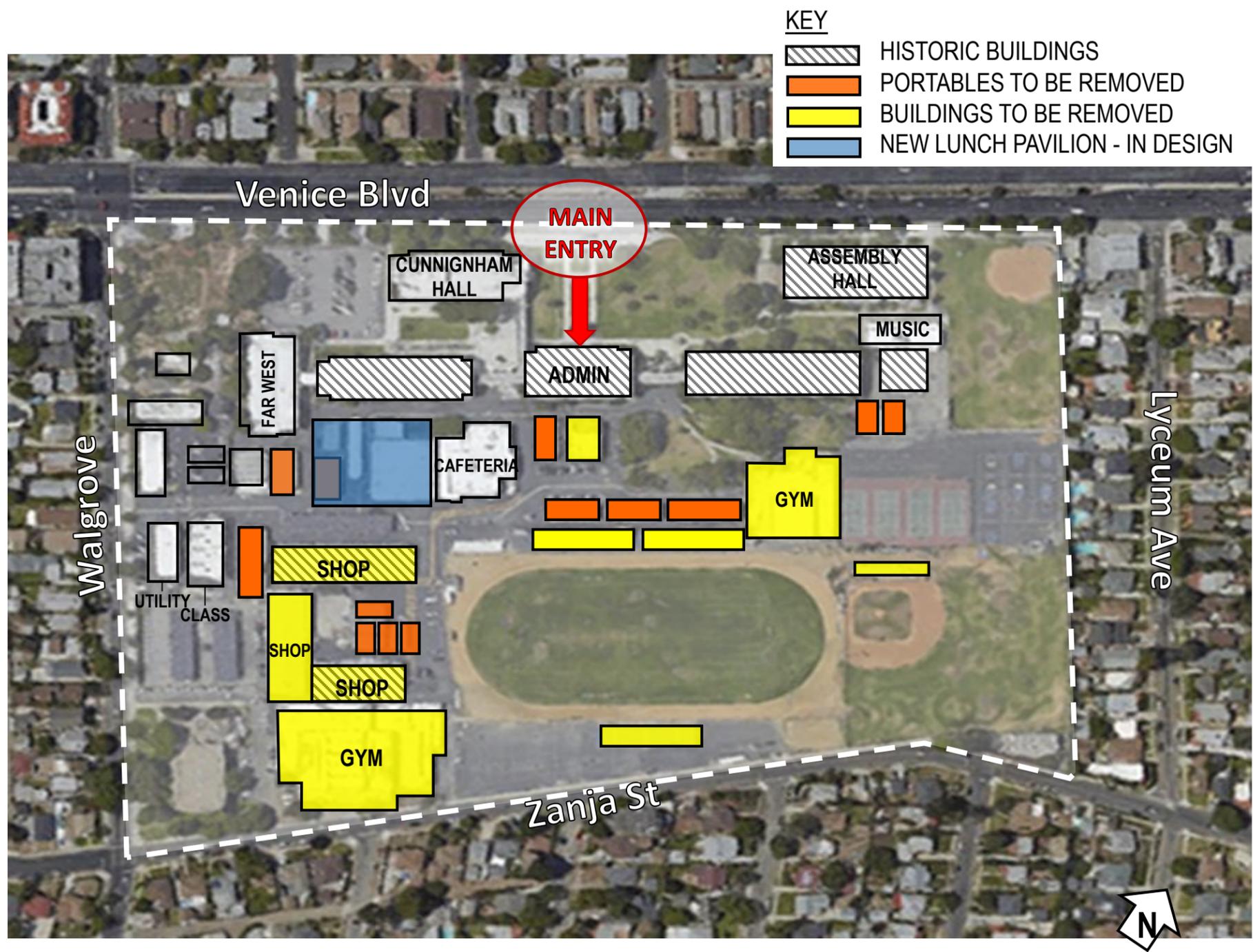
Major Findings

- Seismic Evaluation
 - 5 buildings require structural upgrades
- 18% of classrooms in portables buildings
- Campus infrastructure in poor condition
 - Underground utilities
 - Storm water
- Accessibility constraints
- Heavy vehicular congestion
- Campus security
- 2 – Magnet Program ~ 1,000 Students
- High SPED Enrollment
- 64.5% Students Qualify for Free and Reduced Lunch

Historically Significant Buildings: Main Administration, Classrooms, Auditorium, Shops and Craft Buildings

Venice High School

Approved Project Definition



Scope of Work

- **New building(s) to be constructed consisting of:**
 - Classrooms
 - General
 - Science
 - Specialty
 - Gymnasium
 - Field bleachers
- **Site upgrades**
 - Site infrastructure
 - Vehicular circulation
 - Track and field
 - Baseball and Softball
 - P.E. courts & tennis
 - Landscape & hardscape
 - Accessibility
 - Exterior paint

Project Details

Address: 13000 Venice Blvd, Los Angeles, CA 90066

Scope: 30 New Classrooms & Support Spaces, New Gym, Shops & Science Bldgs., New Football Stadium and Competition Track, Baseball and Softball fields, Tennis and Basketball courts, Demolish Bungalows

Project Budget: \$144,110,887

Construction Budget: \$118,487,890

Architect/Contractor: Design/Builder is NAC Architecture - Hensel Phelps

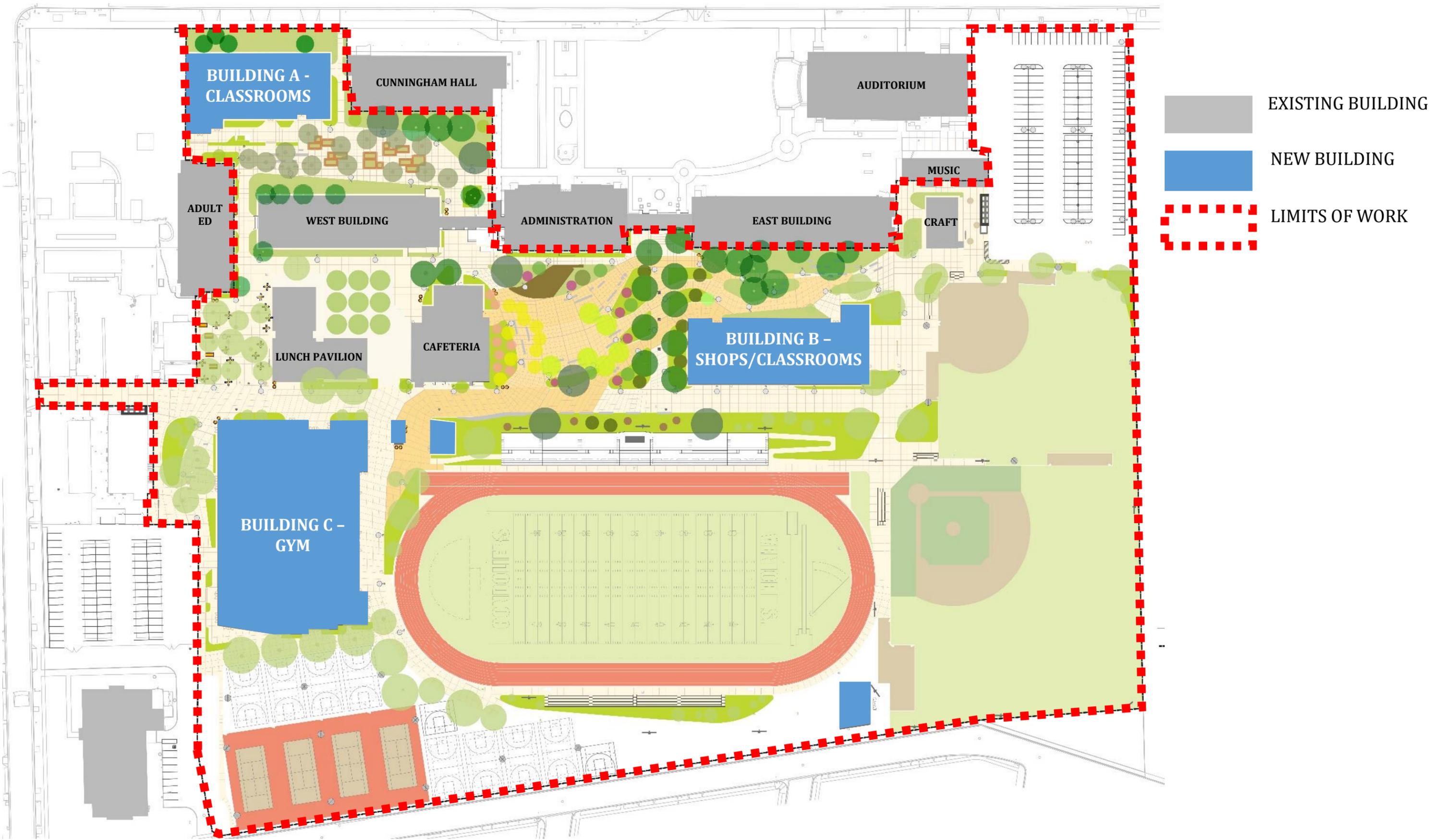
Construction Schedule:

Construction Start : 3Q 2018

Construction Completion is anticipated: 3Q 2022

Venice High School Comprehensive Modernization Project

March 2015	Venice High School identified for Comprehensive Modernization Project
February 2016	Project Board Approved
July 2017	Design/Build Contract Awarded
May 2018	Construction Start
Summer 2018	Interim Housing Complete
Summer 2020	New Buildings Complete: Science Building, Shops Building, Football Stadium. New Outdoor Areas Complete: Science Quad, Main Quad, Repaint Existing Buildings.
January 2022	New Gymnasium Complete.
Summer 2022	New Ball Fields and Courts Complete. Construction Complete.

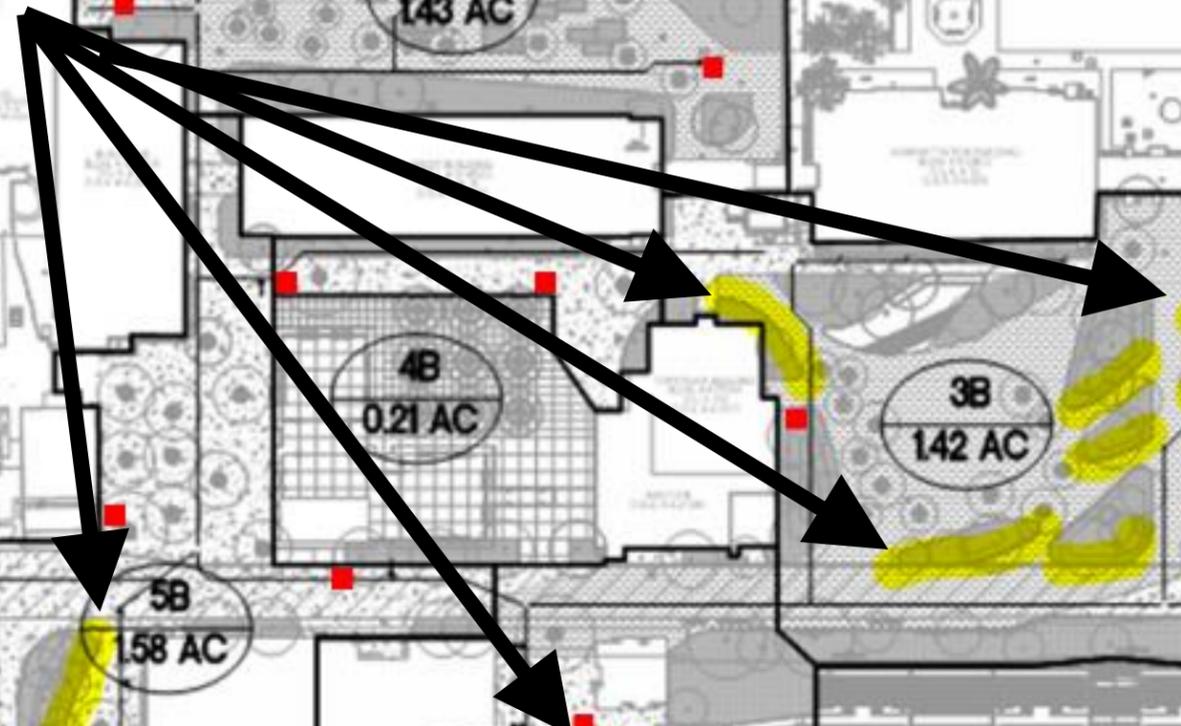


VENICE HIGH SCHOOL – Site Plan

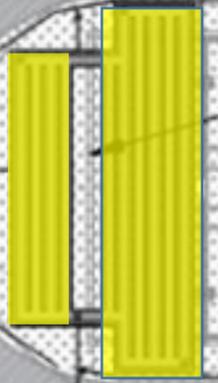


VENICE HIGH SCHOOL – Rendering

Location of Runnels



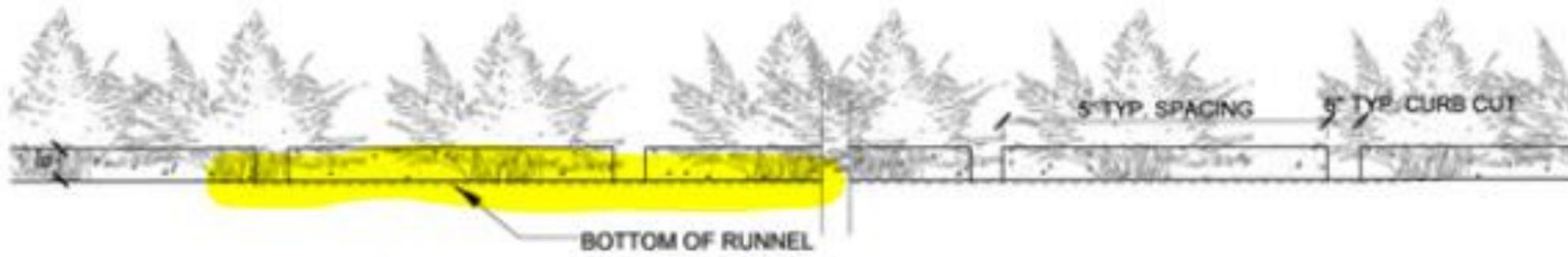
Subgrade Infiltration System



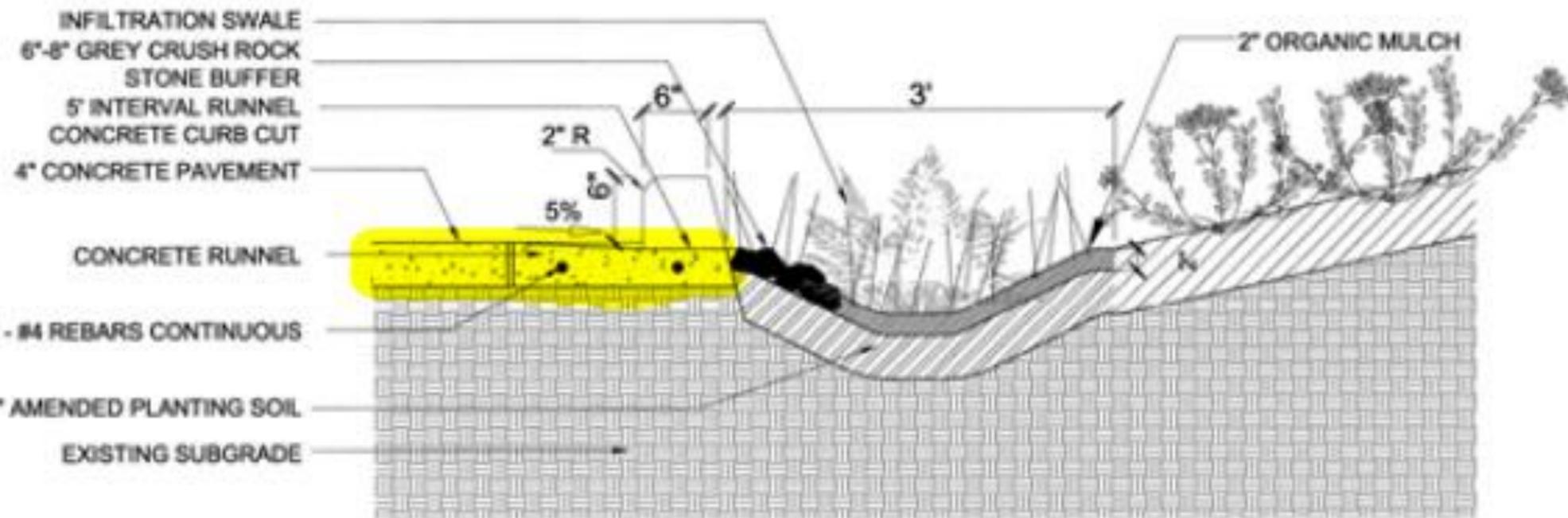
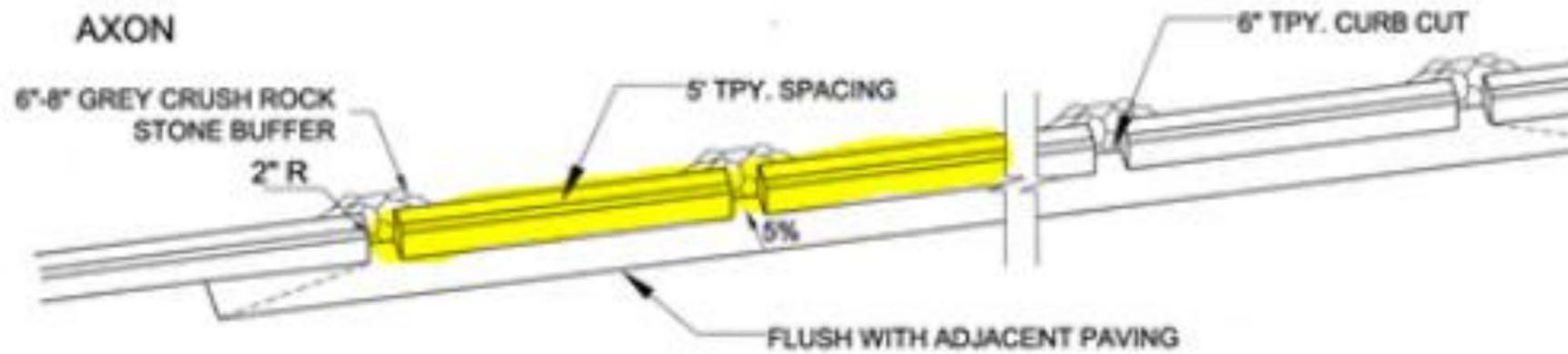
- = Catch Basin
- = Fox Drain

VENICE HS
STORM WATER
SITE PLAN

FRONT ELEVATION

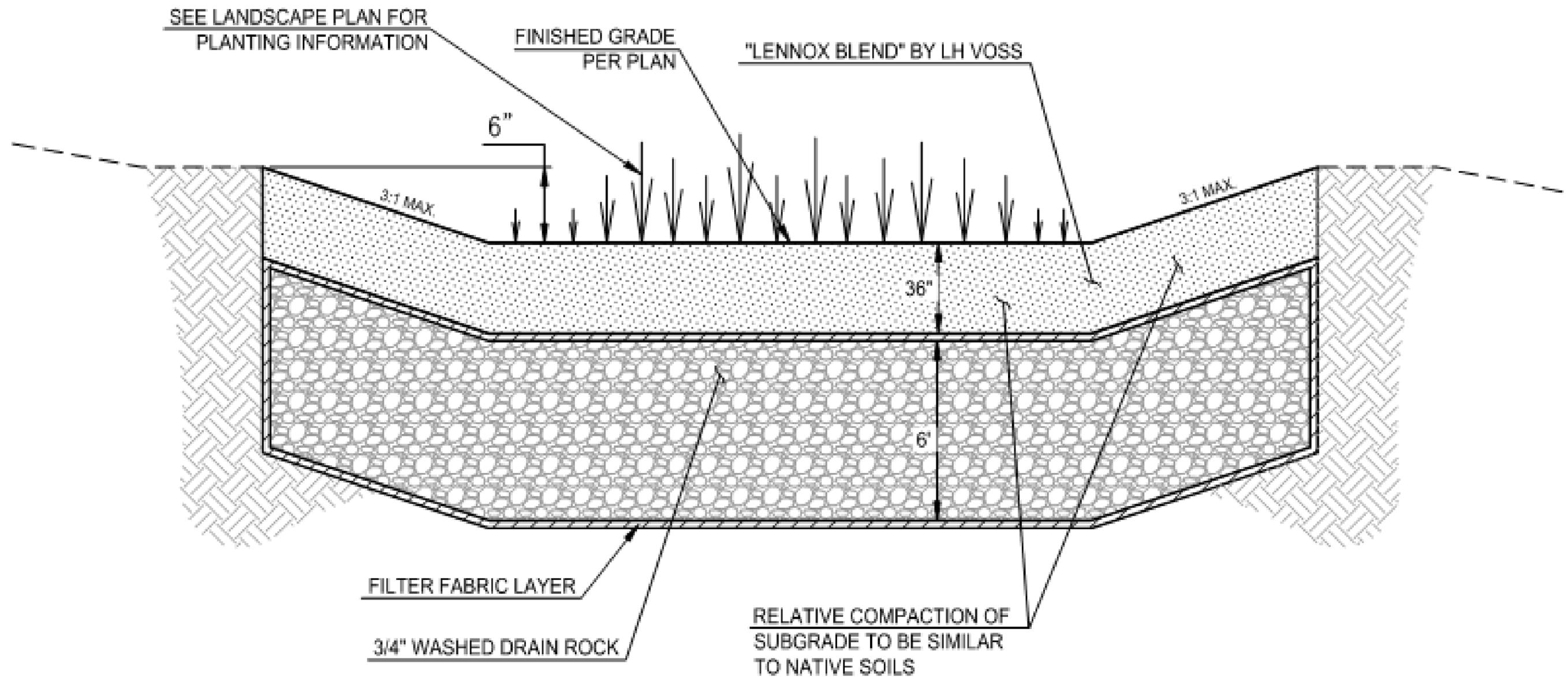


AXON



7 RUNNEL DETAIL
6-L3.00 1/2" = 1'-0"

Infiltration Planter Section



INFILTRATION PLANTER SECTION

NOT TO SCALE

6
9-C5.01

Benefits

- More Infiltration
- Water table increase
- More Water storage
- Sediment Filtration & Pollutant Reduction
- Flood Management
- Flood Conveyance
- Flood risk management
- Creates new recreational areas
- New green space
- New trees and planting (>200)
- New trees and vegetation creates, enhances and restores natural habitat
- Increases shade and reduces local heat island effect
- Reduces global warming

Student Learning Opportunities

- Sustainability
- Storm Water Management

This project implements natural processes



VENICE HIGH SCHOOL – Natural Processes

Venice High School Virtual Tour

Questions & Comments



Burton Way Median

Green Streets & H₂O Efficient Landscape Design

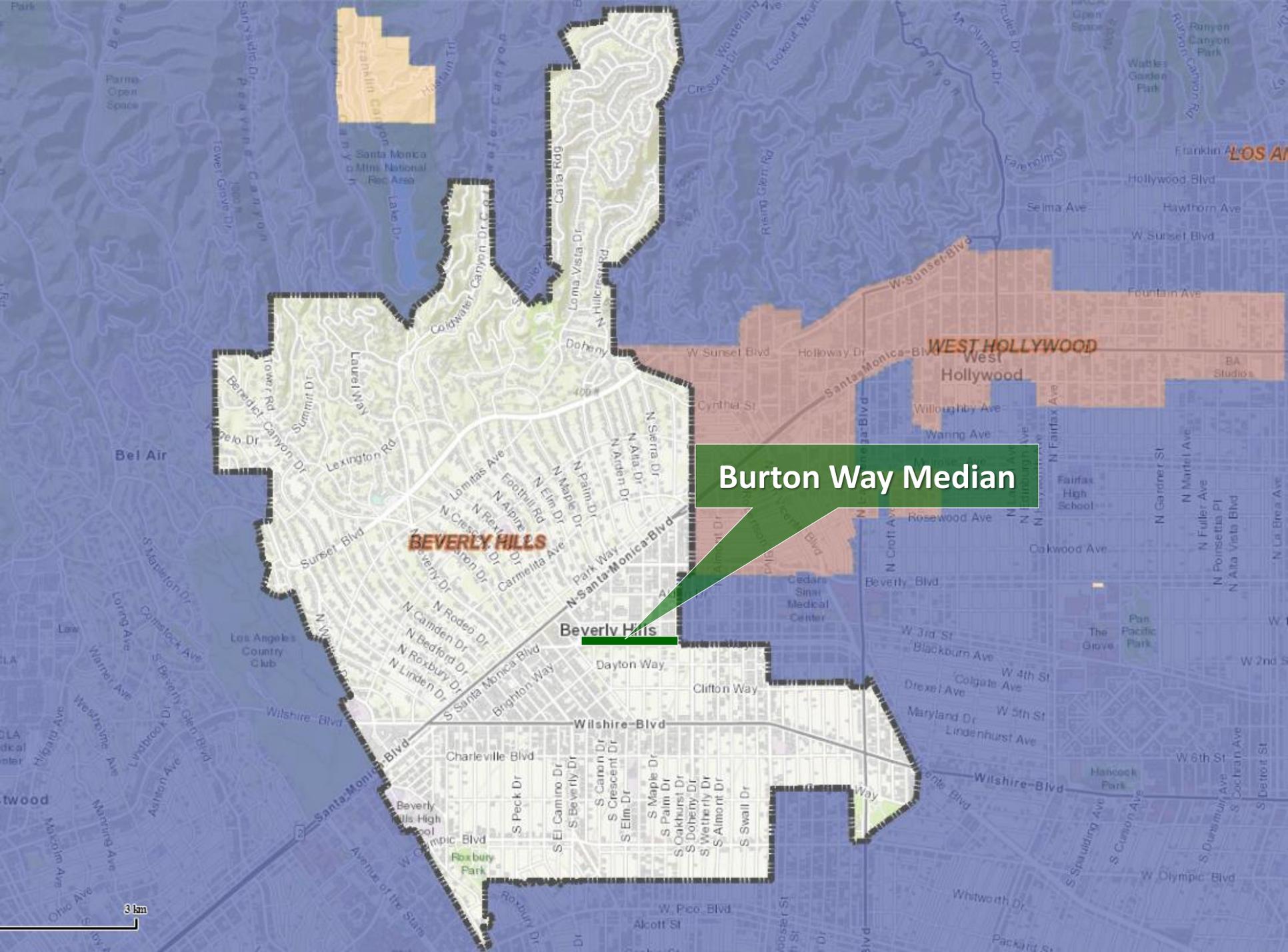
Derek Nguyen, Ph.D., P.E.

Project Manager

310-285-2473

dnguyen@beverlyhills.org

Requesting: \$5,000,000



Burton Way Median

3 km

Project Location

211 Acres – Tributary Area



(152 ac.)

School, Residential & Commercial Area

Multi-family Units
(39 ac.)

Industrial

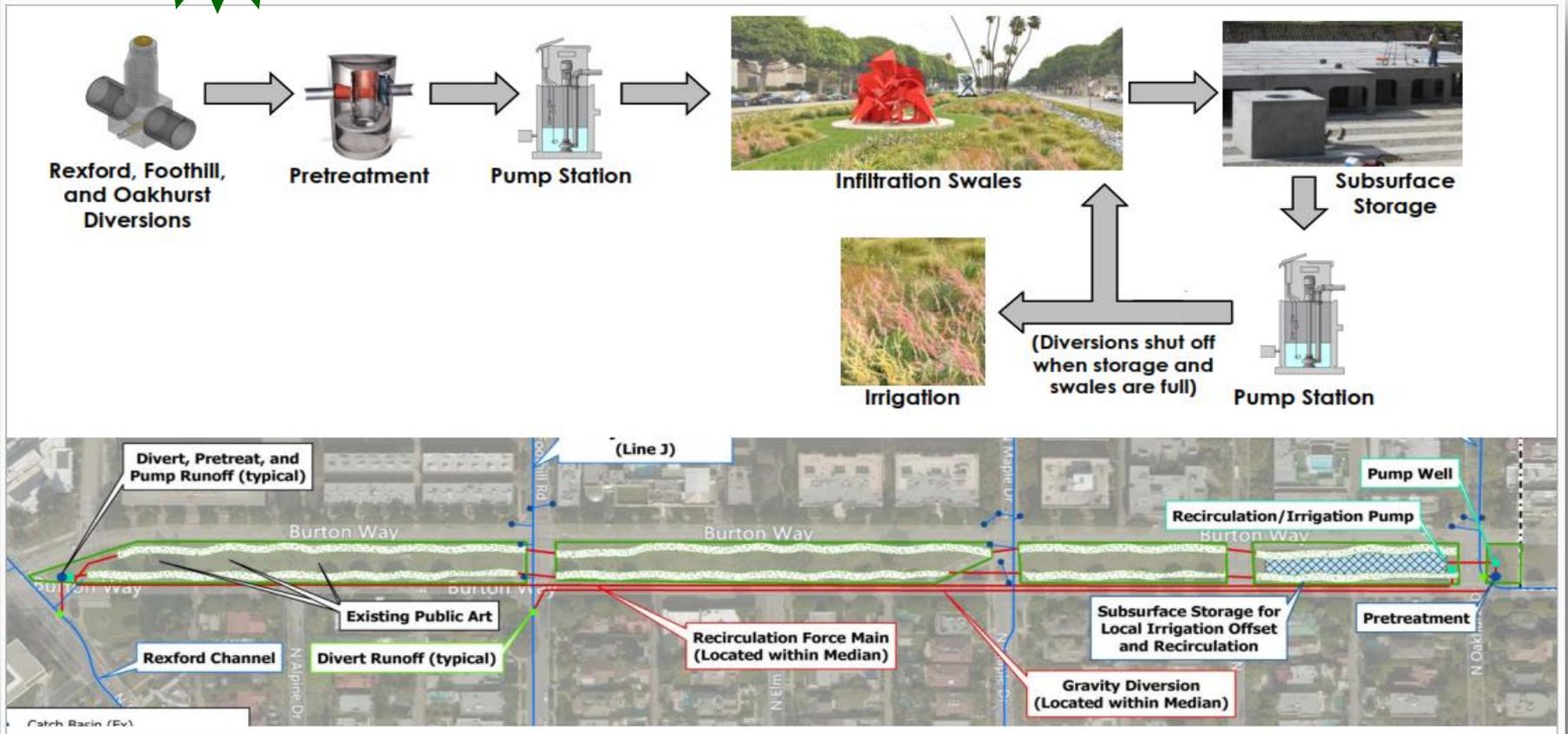


500m

2000 ft

Score
68

Project Details



24-Hour Capacity: 7.3 acre-feet
Annual Capture: 60.3 acre-feet



Water Quality

Pollutants Reduction

- **Metals, Bacteria and Trash TMDLs**

Capture & Cost

- **24-Hr Capacity: 7.3 acre-ft.**
 - **3.9 ac-ft. – Infiltration swales**
 - **3.4 ac-ft. – Subsurface Storage**
- **Cost Effectiveness = 7.3 AF/\$10M = 0.73**



Water Supply

**Annual Capture
(60.3 acre-feet/year)**

**Irrigation Reuse (4.3 ac-ft.)
(Drought Tolerant Plants)
100% Self-Sufficient**

**Groundwater Recharge (56 ac-ft.)
(Hollywood GW Basin)
Unadjudicated Basin**



Other Benefits



Nature-Based Solutions

3.7 Acres of Native & Drought Tolerant Plants

15-ft. Swale x 3,800-ft. (3.9 ac-ft.)

Community Beautification



Community Outreach

City Council, PW & AC Commissions

8 Public Meetings with Residents, Businesses and Stakeholders



Pedestrian Safety

Improved Crosswalks

ADA Ramps
Traffic Signal Modifications
LED Street Lights



Public Education



H₂O Efficient Landscape
H₂O Conservation
Watershed Protection



Project Budget

Estimated Project Expenses

Planning & Design	\$638,000
Estimated Construction	\$10,000,000
Total Estimated Project Expenses	\$10,638,000

Annual Cost Breakdown

Annual Maintenance Cost	\$50,400
Annual Operational Cost	\$50,000
Annual Monitoring Cost	\$10,000
Total Annual Costs (50-year Life Span)	\$110,400
Module Generated Life-Cycle Cost	\$13,286,926 ~ (\$13.3M)
Module Generated Annualized Cost	\$553,763



Project Budget

Estimated Project Expenses

TOTAL PROJECT COST (50-Yr. Life Span)	\$13,300,000
SCW FUNDING REQUEST	\$5,000,000
FY 2020-2021	\$3,750,000
FY 2021-2022	\$1,250,000
TOTAL LEVERAGED FUNDS	\$8,300,000
IRWM Prop 1	\$2,000,000
CITY FUNDS	\$6,300,000

CITY FUNDS	\$6,300,000
Construction FY 20-21	\$2,000,000
Budget - O&M, Monitoring	\$300,000
Construction FY 21-22	\$4,000,000



Project Schedule

Milestone Name

Completion Date

Draft 100% Design

Feb 2020

FINAL DESIGN

Mar 2020

Bidding & Advertising

July 2020

AWARD CONTRACT

Sept 2020

CONSTRUCTION

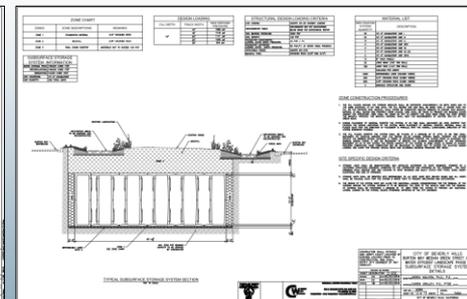
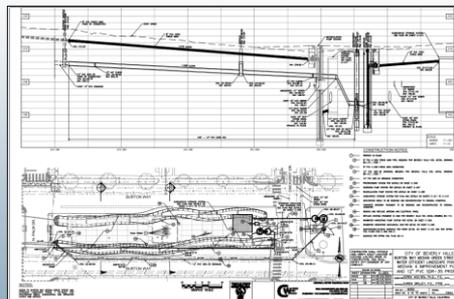
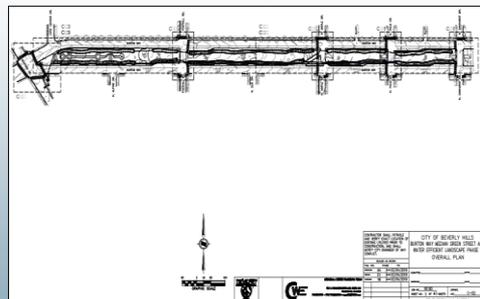
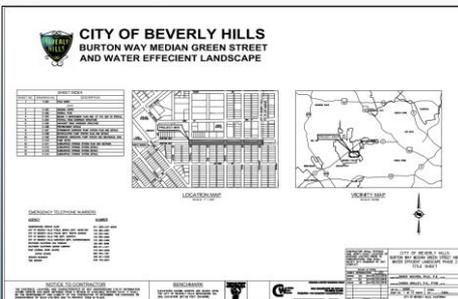
Nov 2020 – Nov 2021

Permitting (USACE)

Dec 2020

Start O&M, Monitoring

Dec 2021





**FEBRUARY
2020**



**DECEMBER
2021**





Questions

Derek Nguyen, Ph.D., P.E.

Project Manager

310-285-2473

dnguyen@beverlyhills.org

Thank You

Ballona Creek TMDL Project



City of Los Angeles

Project Collaborators: Ballona Creek Watershed
Management Group

Brett Perry

brett.perry@lacity.org

(213) 847-3548



Ballona Creek Watershed and TMDL Project

Watershed

- **Area:** 128 square miles
- **90th Percentile Dry Weather Flow Rate:** 29 MGD
- **Prominent Land Uses:** Residential (60%), Open space and recreation (17%), Commercial (16%)

Project Collaborators % of Watershed Area

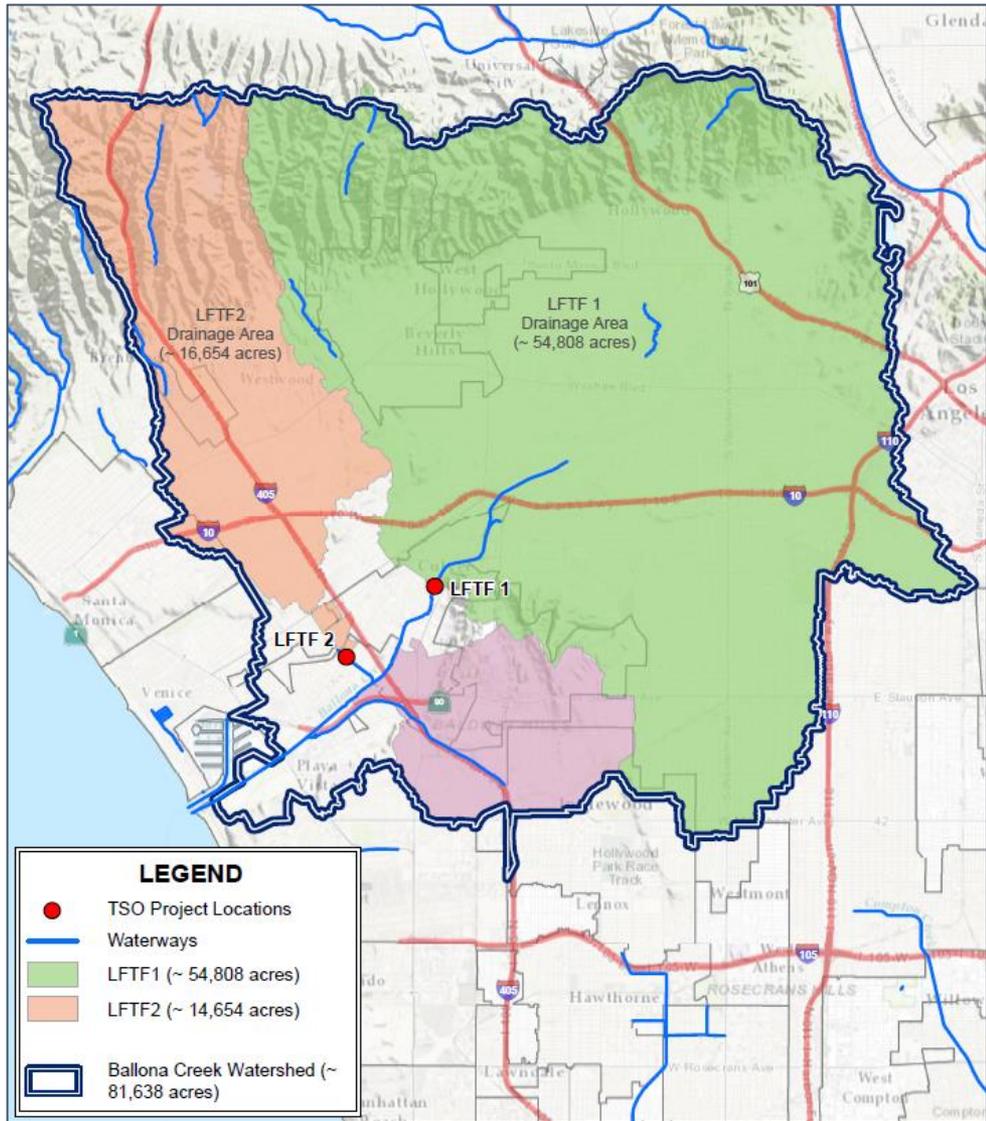
- City of Los Angeles: 80%
- Los Angeles County: 3.8%
- City of Culver City: 3.8%
- City of Beverly Hills: 4.5%
- City of West Hollywood: 1.4%
- City of Inglewood: 2.3%
- LACFCD: N/A

Low Flow Treatment Facility #1 (LFTF-1)

Low Flow Treatment Facility #2 (LFTF-2)

Project Goals:

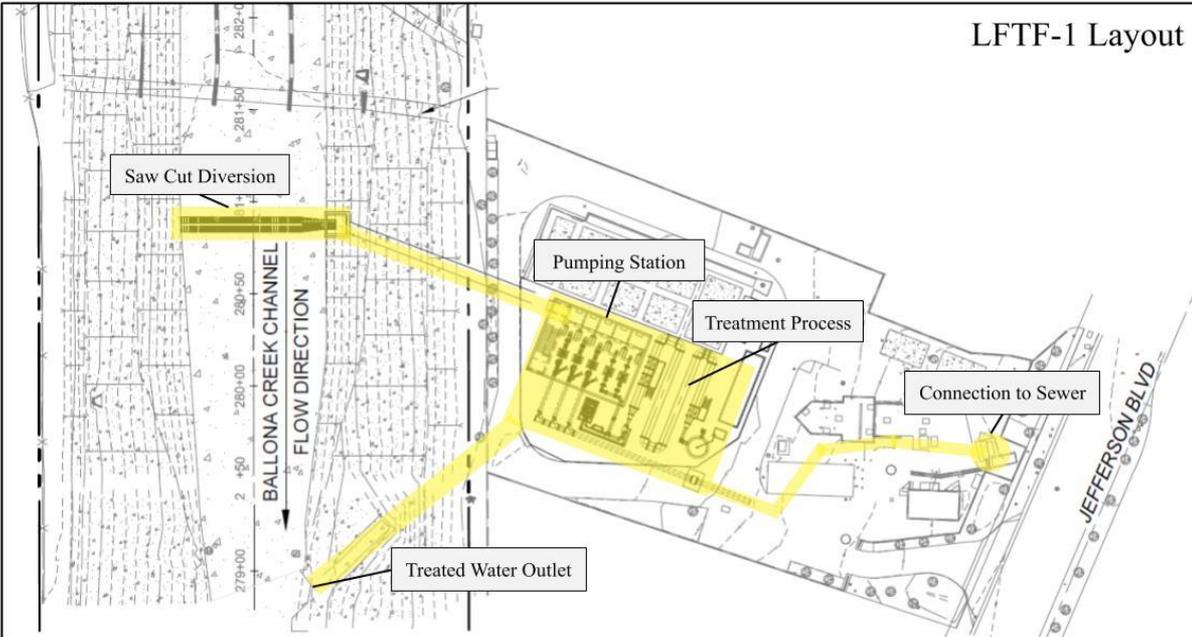
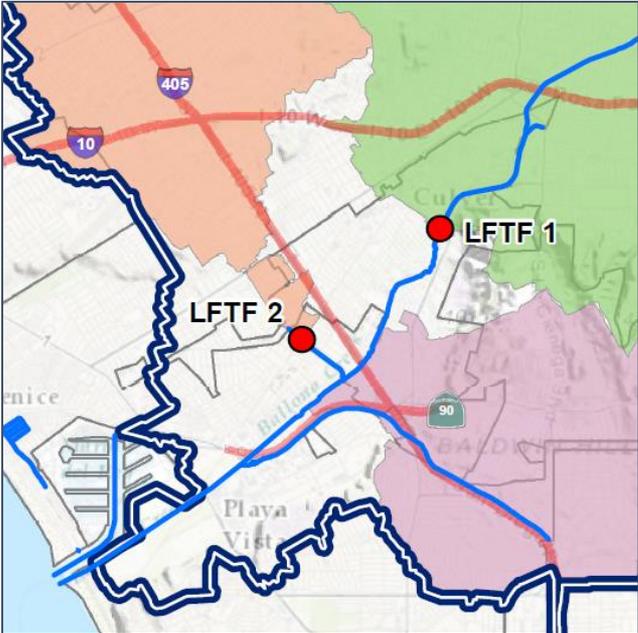
- Regulatory water quality compliance
- Water contact recreation
- Ecosystem enhancement
- Increase local water supply



Low Flow Treatment Facility #1

Project Description:

- Ballona Creek Reach 2
- Drainage area: 54,808 Acres
- Design Capacity: 29 MGD
- Up to 6 MGD for ozone disinfection
- Up to 23 MGD for conveyance to HWRP for recycling
- Retrofit of abandoned NOTF facility

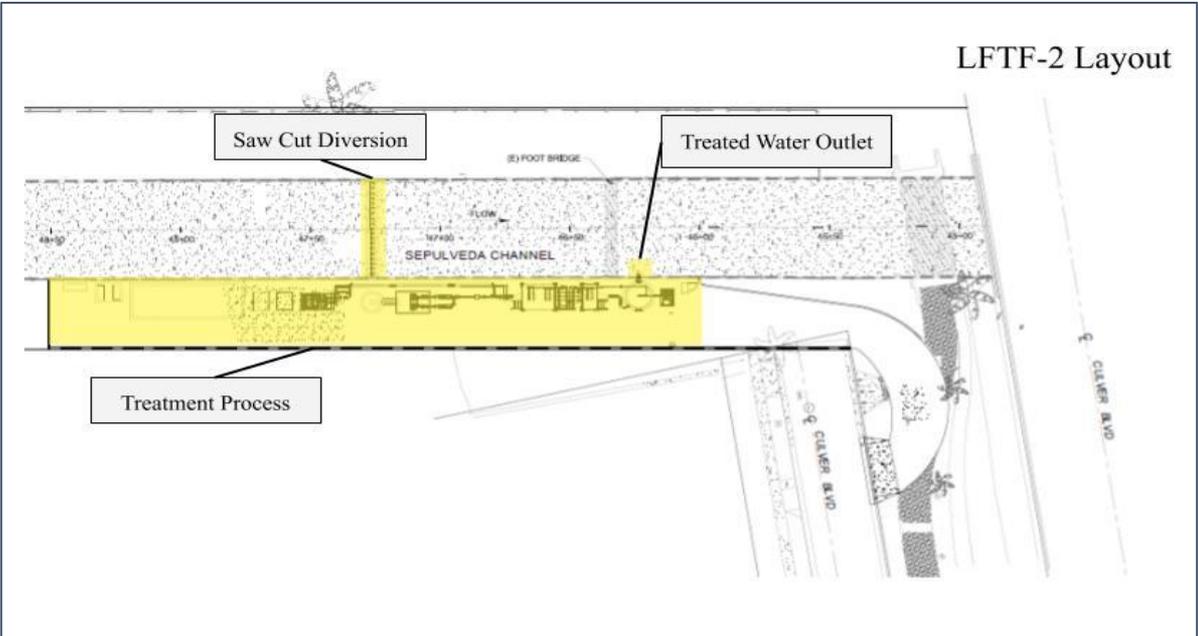
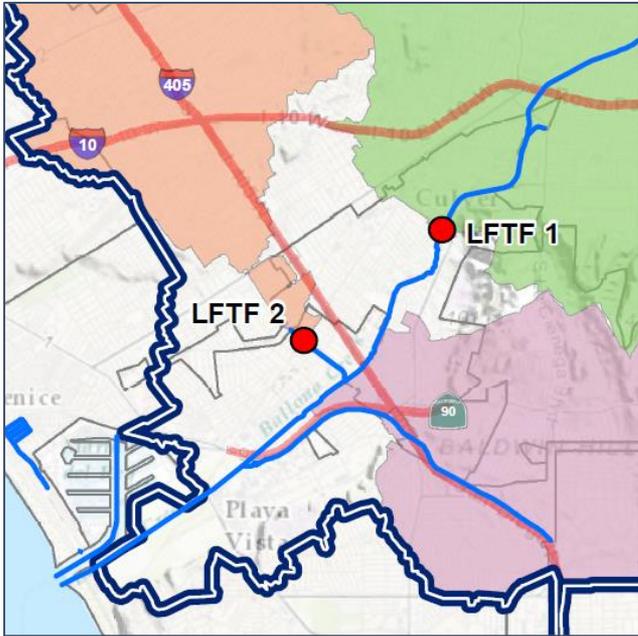


LFTF-1 Layout

Low Flow Treatment Facility #2

Project Description:

- Sepulveda Channel
- Drainage Area: 16,654 acres
- Design Capacity: 1.3 MGD
- Up to 1.3 MGD for ozone disinfection
- New constructed facility



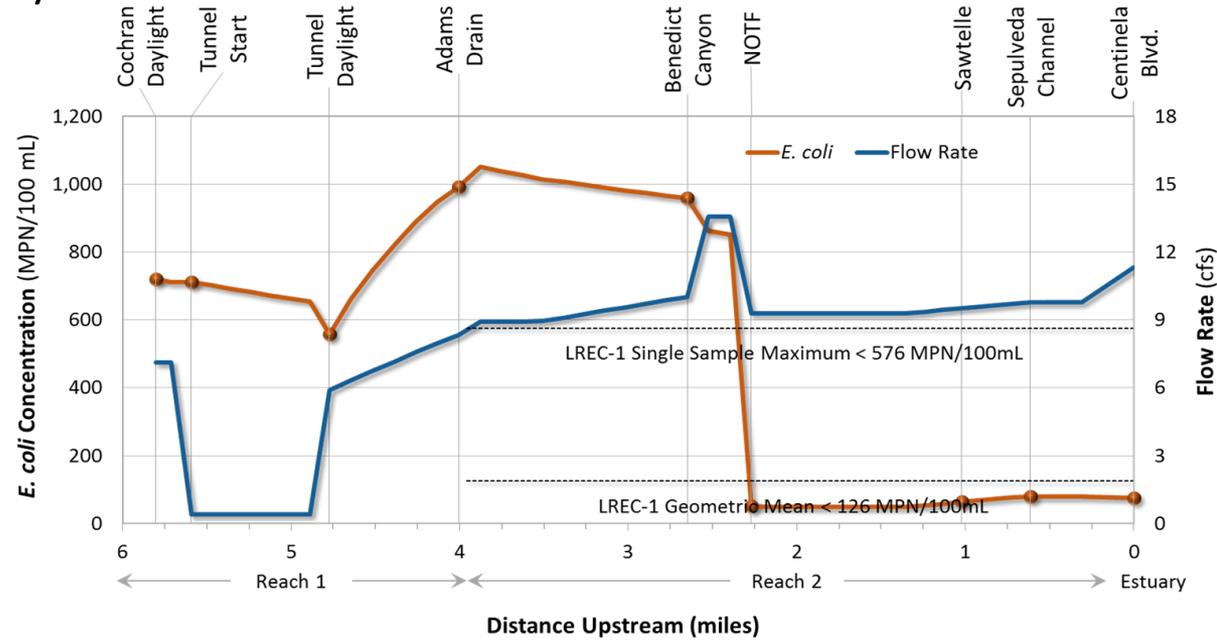
Project Benefits

- **Regulatory Water Quality Compliance**

- Specified in the Ballona Creek EWMP
- Designed to comply with dry weather bacteria TMDL throughout the watershed
- Designed to meet watershed needs in collaboration with the Culver City Mesmer Low Flow Diversion

- **Water Contact Recreation:**

- Supports the REC-1 and REC-2 Basin Plan designations
- Protects public health during currently observed activities along Creek, Estuary, and the Santa Monica Bay



Project Benefits (cont.)

- **Ecosystem Enhancement:**
 - Enhances current conditions in Ballona Creek, Estuary, Wetlands, and the Santa Monica Bay
 - Lowers levels of bacteria, organic chemicals, trash, metals entering the Estuary and Santa Monica Bay
- **Increase Local Water Supply:**
 - 5,060 AF/year (1.6 billion gal/year) diverted for local water supply
 - 100% water recycling at Hyperion Water Reclamation Plant by 2035
 - 2 new water recycling pilot plants in the next few years



1. Membrane bioreactors



2. Reverse osmosis



3. Advanced oxidation



Project Outreach

Project Collaborators

Permitting Agencies:

- LAWQRCB
- Army Corp of Engineers
- California Department of Fish and Wildlife
- LA County Flood Control District
- LA DOT, LA DWP, SoCal Edison, METRO

Community Outreach:

- Ballona Creek Renaissance
- Friends of Ballona Creek
- Heal the Bay
- LA Waterkeepers
- Surfrider Foundation
- Council for Watershed Health
- Santa Monica Bay Restoration Commission
- Natural Resource Defense Council
- LA Council Districts 5,6,10,11
- Neighborhood Councils (Westchester, Del Rey, West Adams)
- Del Rey Residents Association

CEQA / Environmental Impact Report

State Clearinghouse # 2017021047

- Notice of Preparation:** February 17, 2017
- Scoping:** February 17 – March 20, 2017
- Public Scoping Workshop:** March 2, 2017
- Public Review and Comments Draft EIR:**
August 17 – October 16, 2017
- Public Comment Workshops:**
September 20, 2017
- Completion Final EIR:**
March 2018
- State Clearinghouse Certification:**
August 1, 2018

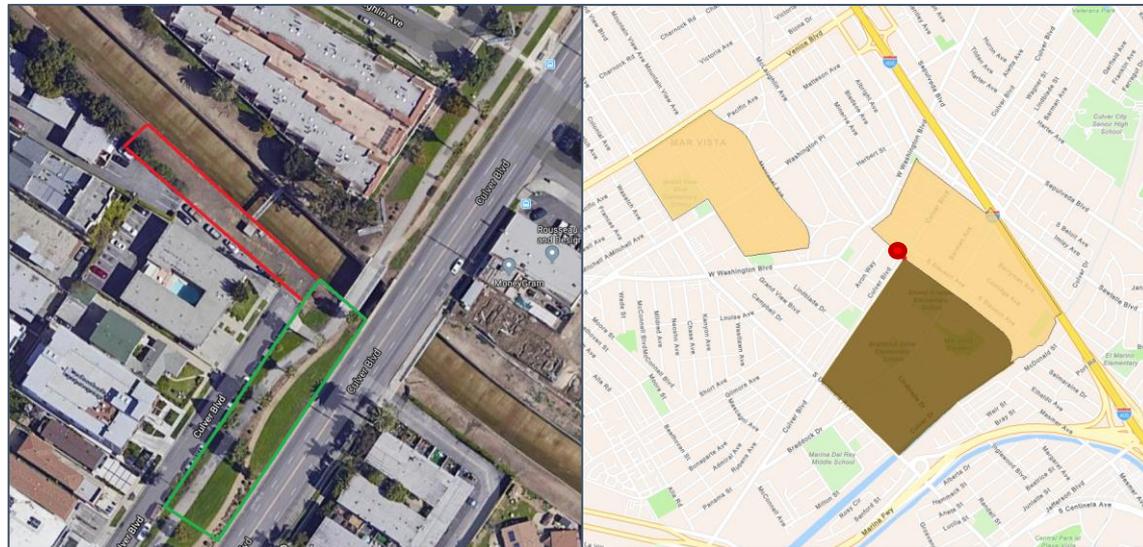
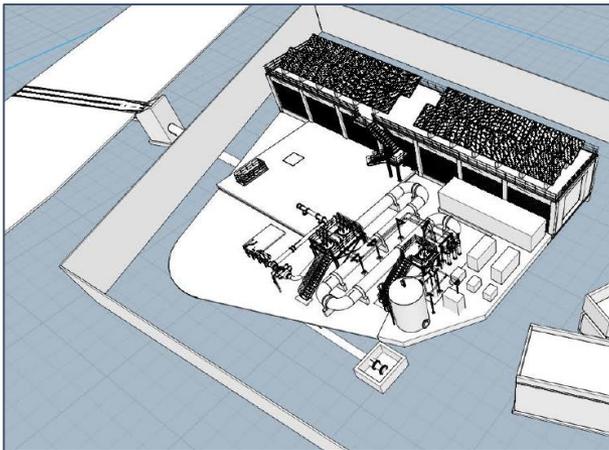


LASAN sent consultation notification letters to 11 Tribes, and held formal consultations with representatives of the following three tribal nations:

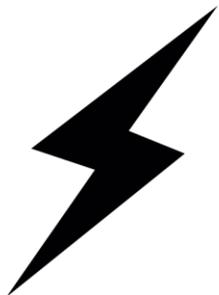
- Tongva Ancestral Territorial Tribal Nation
- Gabrieleño Band of Mission Indians – Kizh Nation
- Gabrielino-Tongva Indians of California Tribal Council

Additional Project Benefits

- Retrofitting abandoned infrastructure, reduced environmental impacts during construction, and modernize 50 year old water system infrastructure
- Proposing solar panels at LFTF-1 for green energy production in industrial area
- Community investments/planting along median and bike path near LFTF-2
 - LFTF-2 adjacent to disadvantaged communities
 - Potential Options: rest stop, seating, information kiosk, civic canvases, exercise stations, native plants
- Continue collaboration with Council District and local community at both facilities through construction outreach
 - Outreach for community investment scoping while finalizing design



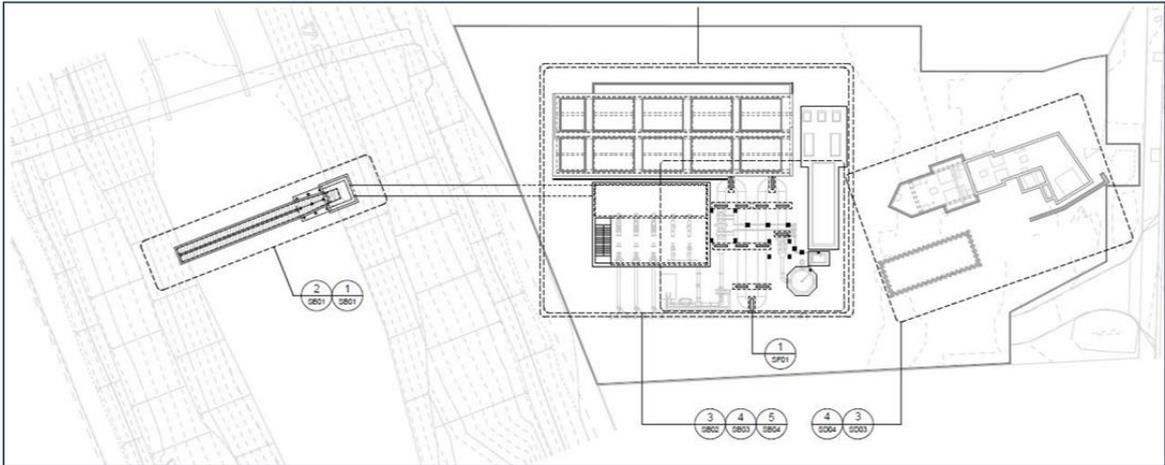
Funding Details



Capital Cost Breakdown	
Planning and Design Cost:	\$ 6,272,000.00
Construction Cost:	\$ 25,622,000.00

Annual Cost Breakdown	
Annual Maintenance Cost:	\$ 639,000.00
Annual Operation Cost:	\$ 520,000.00
Annual Monitoring Cost:	\$ 39,577.00

- Projects designed for at least 50 year life.
- All project collaborators plan to contribute to sunk project costs (EIR, permitting, pre-design, etc)



Cash Flows

FY 20-21	FY 21-22	FY 22-23	FY 23-24	Total
LFTF-1				
\$884,000	\$1,195,000	\$11,321,000	\$10,828,000	\$24,228,000
LFTF-2				
\$280,000	\$404,000	\$3,560,000	\$3,422,000	\$7,666,000
Total Project				
\$1,164,000	\$1,599,000	\$14,881,000	\$14,250,000	\$31,894,000
Proposed Cash Flow				
\$11,000,000	\$11,000,000	\$3,000,000	\$6,894,000	\$31,894,000

- FY 24-25 is expected start of annual O&M costs of \$1,159,000/yr

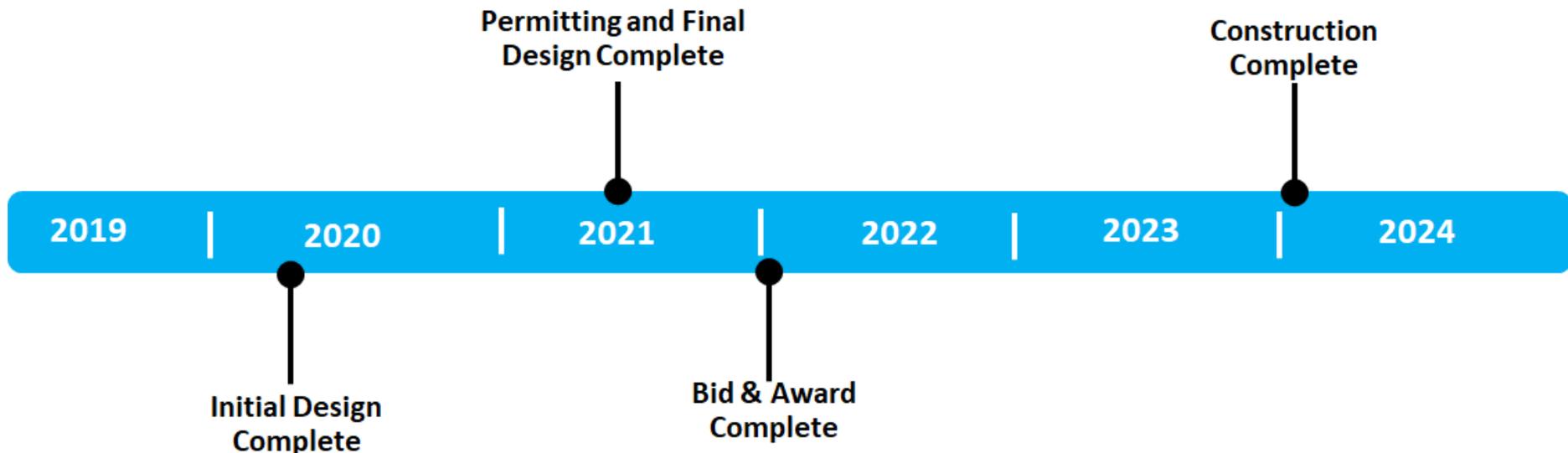
Project Schedule

Completed:

- 70% facility design, CEQA and Full EIR, 1602 California Fish & Wildlife Permit
- Geotechnical, Structural, Hydrological, Surveying Reports

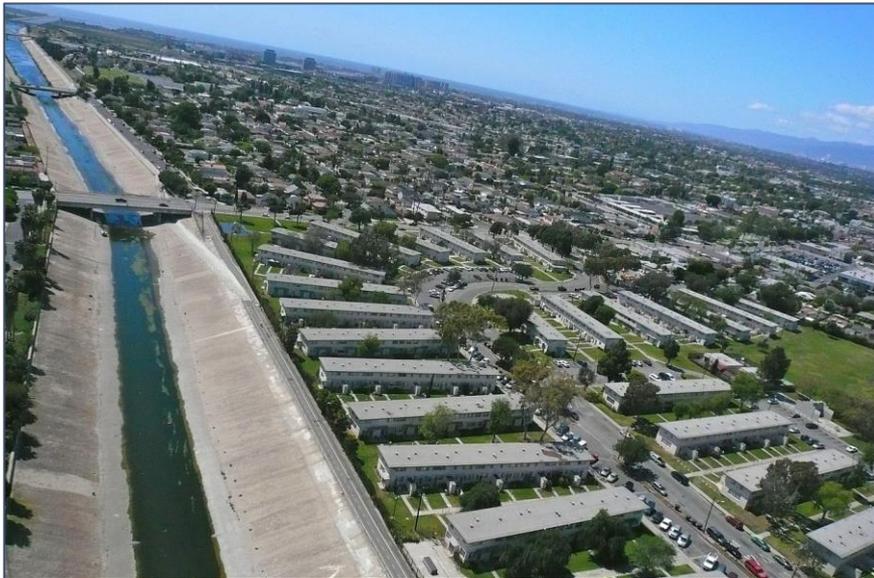
Ongoing:

- 401 Permit from LARWQCB, 404 and 408 Permits from Army Corp of Engineers, LACFCD Permits
- 100% facility design at both locations



Final Considerations

- Incorporates a regional approach for compliance of one of the most challenging TMDLs in the Ballona Creek watershed.
- Will annually provide over 5,000 acre-feet (AF) of new locally sourced water for the Los Angeles region.
- Is supported by key regional stakeholders.
- Demonstrates feasibility and project readiness: environmental review is complete, resource agency permitting is progressing well, and design activities are past 70 percent completion.



Thank You



Brett Perry

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IMPERIAL HIGHWAY SUNKEN MEDIAN O&M

CITY OF LOS ANGELES

LA SANITATION AND ENVIRONMENT WATERSHED PROTECTION DIVISION

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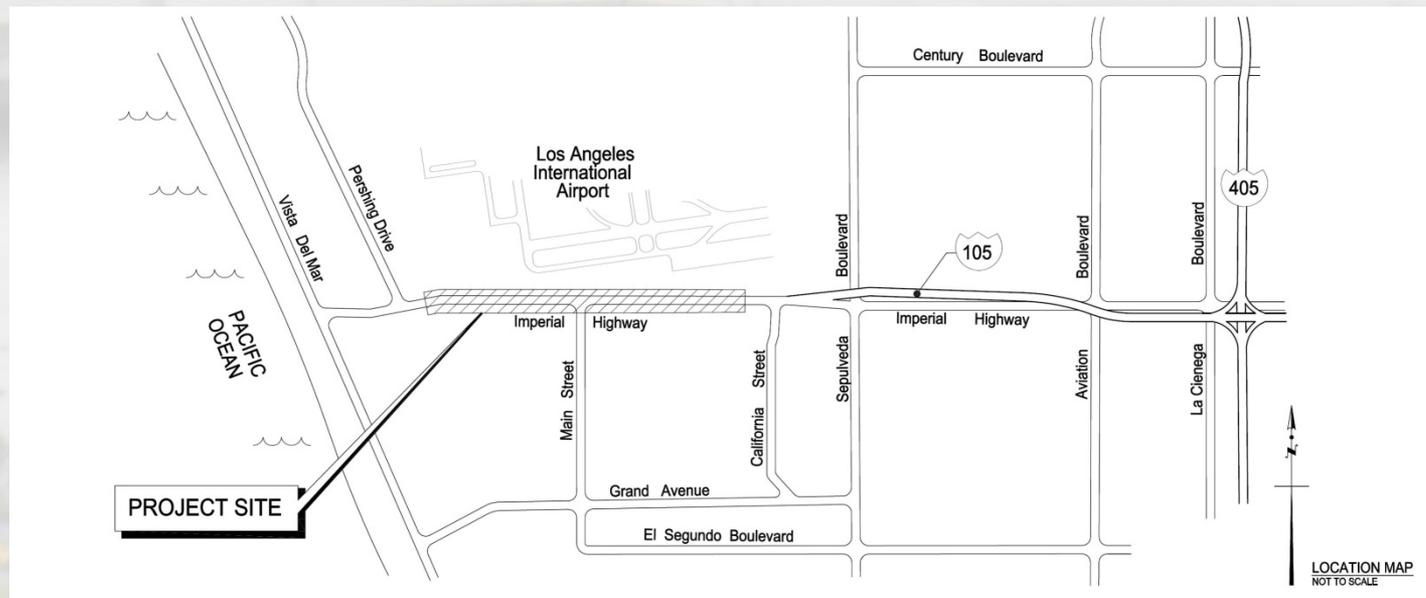


Presentation to SCW Program
CSMB WASC
February 20, 2020



IMPERIAL HIGHWAY SUNKEN MEDIAN STORMWATER PROJECT

Project Location



- Installed in median of 1-mile stretch of Imperial Highway between California Street and Pershing Drive, just south of LAX
- Jurisdiction: City of Los Angeles, Council District 11
- Santa Monica Bay watershed - includes portions of El Segundo
- 23.5 acre drainage area: 7.5 ac Imperial Hwy, add'l 16 commercial and residential

IMPERIAL HIGHWAY SUNKEN MEDIAN STORMWATER PROJECT

- \$1.3M cost funded by City of LA Clean Water Bond (Proposition O)
- Construction of bioswale and infiltration trench, landscaping 2009-2010; dry wells completed 2012
- Structural BMPs maintained by LASAN
- Landscaping maintained by various entities
 - Lack of funding and resources for maintaining landscape elements and surface improvements



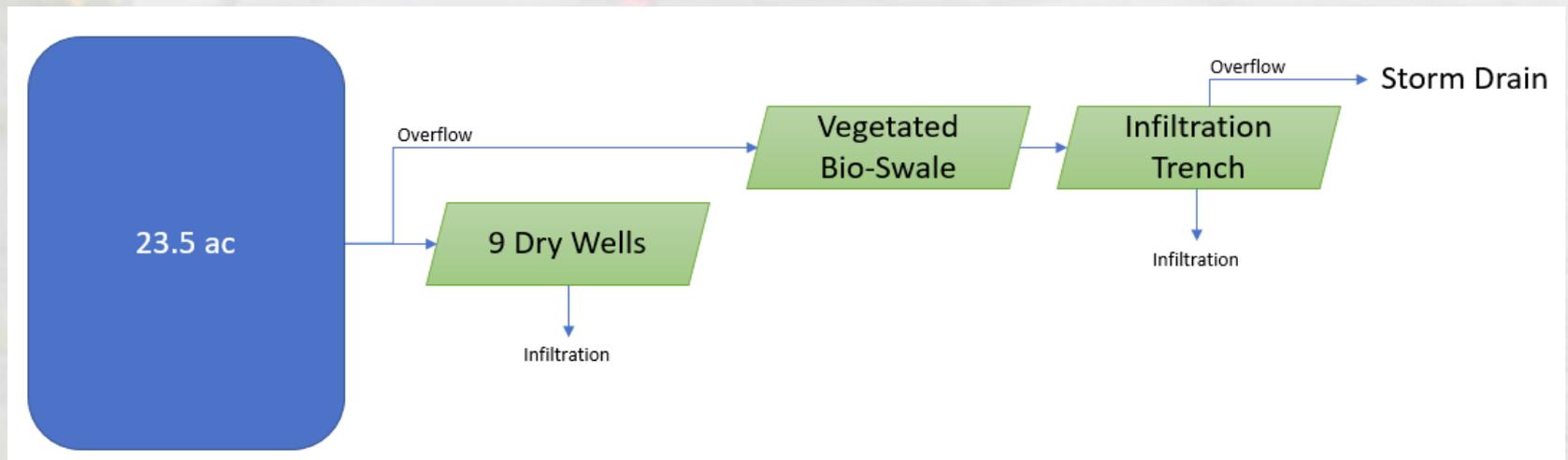
Before Construction, looking east to Main/Imperial intersection



After Construction, looking west from Main/Imperial intersection

Project Components

- 9 Dry wells: each 35' depth, 3' diameter
 - Water storage volume of 2,000 cubic feet
- 200-foot vegetated bioswale
- 250' long, 6' deep infiltration trench
 - Water storage volume of 7,000 cubic feet
- Vegetation planted along the 1- mile of project (including 396 trees)
 - Overflow from the dry wells and infiltration trench enters area drain and outlets to a 60-inch diameter City SD under Imperial Highway



Project Description and Benefits

- Project included in the Santa Monica Bay J2 & 3 EWMP Reasonable Assurance Analysis for inclusion of water quality benefits
- Reduces pollutant levels in the Santa Monica Bay (metals, oil and grease, gasoline) and helps the City of Los Angeles (City) meet its trash, bacteria and organics Total Maximum Daily Load (TMDL)
- Captures 1.25 inches (85th percentile) storm runoff from drainage area (17.6 acres impervious)
 - 7.5 acres from Imperial Highway (City of LA, LAX)
 - 16 acres from the City of El Segundo

Project Outreach

- 2010-18 Trees planted and landscaping maintained by Tree Musketeers
- 2019 – local NGO (Friends of the Jungle) proposed partnering to provide maintenance



O&M Funding Details

Status	Funding source	Maintenance activity	Amount
Ongoing O&M	City of LA Sanitation	Structural BMP maintenance, monitoring; Trash removal, clearing overgrown vegetation, and median upkeep, vector control	\$30,000/yr
Deferred O&M	City of LA Sanitation In-kind	Replacing dead vegetation and landscape upkeep, mulching, removing accumulated sediment from median, replacing gravel from the infiltration trench and dry wells.	\$200,000
	SCW request		\$50,000

Program Preferences

O&M needed to ensure project continues to:

- Reduce local flooding
- Remove 50,000 lbs of trash per year and other pollutants which don't enter receiving waters
- Provide storm capture benefits and reduction of flows to SD and Bay
- Control vectors, provide aesthetic benefits

Program Preferences

Explain how project contributes to regional water self-reliance. 5 of 6 SCWP Goals addressed by O&M of Imperial Highway Sunken Median:

Protects our coastal waters and beaches from the trash and contaminants in stormwater



Help protect our coastal waters and beaches from the trash and contaminants in stormwater that make people sick and threaten marine life.



Modernize our 100 year-old water system infrastructure, using a combination of nature, science, and new technology.



Help protect public health, ensuring safer, greener, healthier, and more livable spaces for all.



Prepare our region for the effects of a changing climate — including recurring cycles of drought, wildfire, and flooding.



- Expected Useful life : 25-30 years **but only if maintained**