City of San Jose Green Stormwater Infrastructure Update

Transportation and Environment Committee

May 3, 2021



Comprehensive Citywide Approach

Low Impact Development Project



Green Street Projects

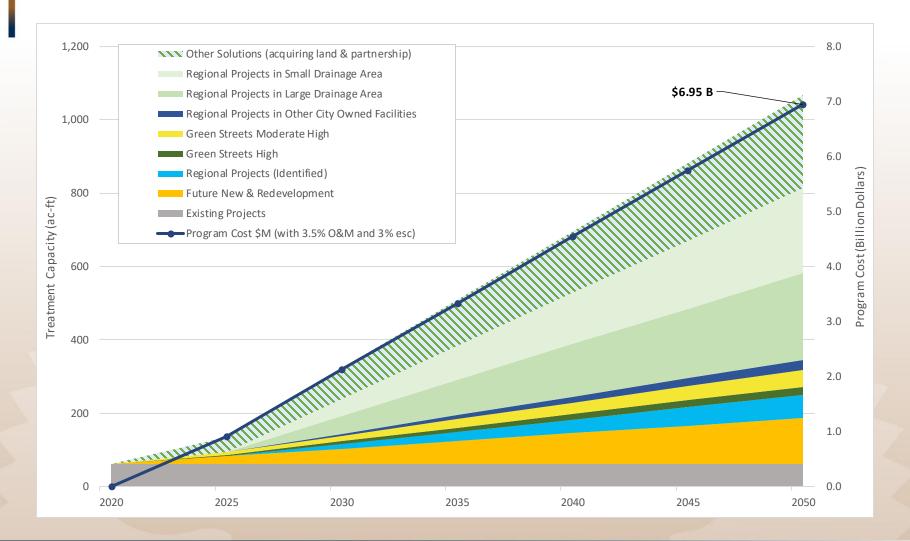


Regional Projects (River Oaks Conceptual Design)



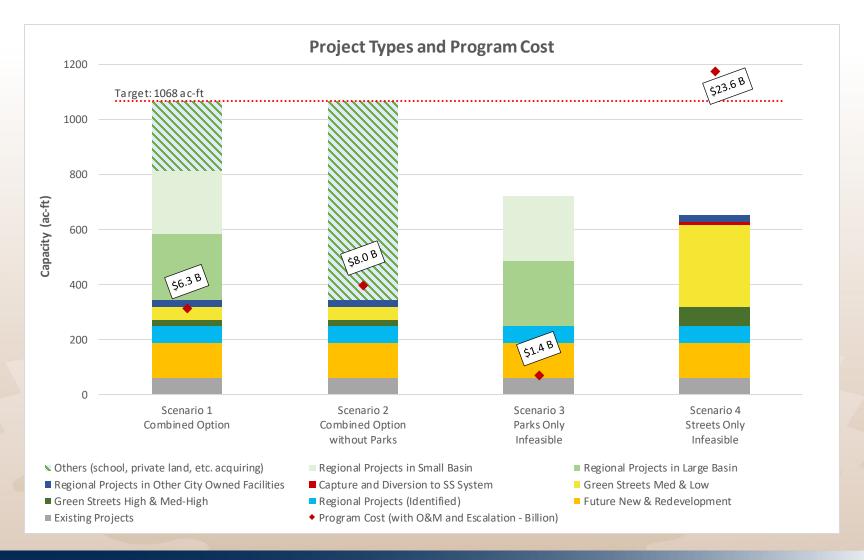


Ideal Scenario to Meet the Target



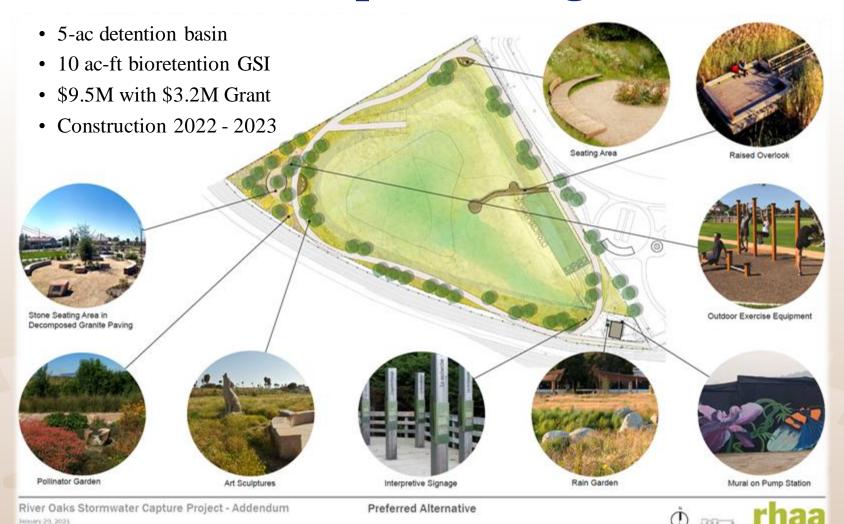


Other Scenarios





River Oaks Conceptual Designs





Near-term Regional Projects

Location	Size (ac-ft)	Conceptual Cost
City Land South of Phelan (1)(2)	7.5	\$18.1M
Sycamore Terrace (2)	0.5	\$3.0M
Hellyer Avenue Property	1.2 - 2.7	\$5.6M
Kelley Park Gravel Parking Lot (2)	11.0	\$23.1M
Other Agency Land	varies	TBD

⁽¹⁾ Indicates site that was included in 2019 GSI Plan



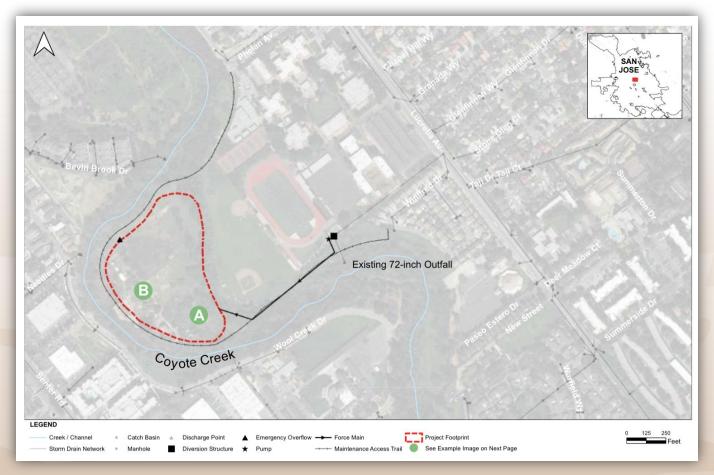
⁽²⁾ Indicates site operated by PRNS

Near-term Green-Street Projects

Location	Green Component Cost
West San Carlos Urban Village	\$1M - \$2M
Story-Keyes Complete Streets	\$0.6M - \$1M
Monterey Road (10 segments, \$7M for a high priority segment)	\$7M - \$144M

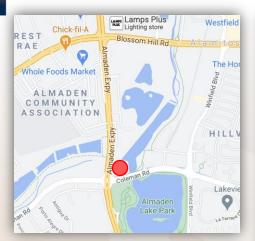
Average cost: \$20M/ac-ft





City land south of Phelan – 2019 GSI Plan Concept



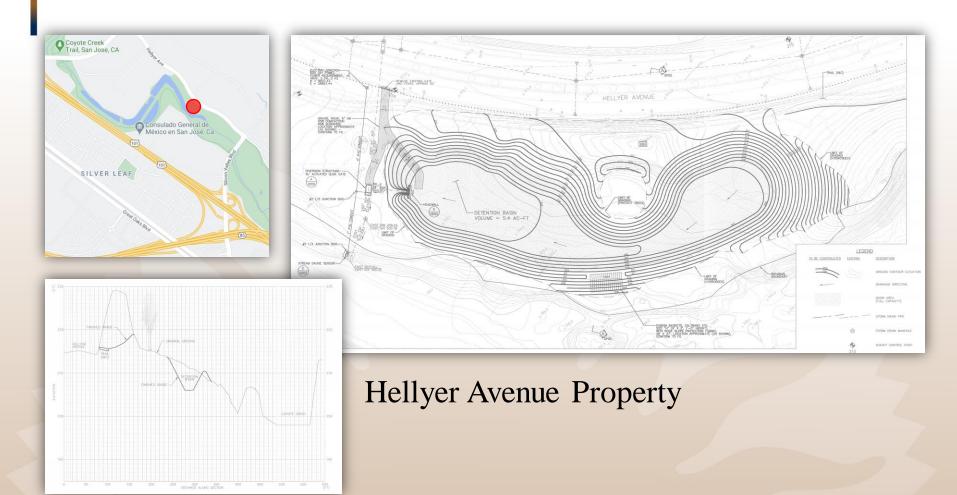






Sycamore Terrace















Example of Subsurface Infiltration Chambers at University of St Thomas in St Paul, MN





Green-street Design Guidelines

Chynoweth Project





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Green Stormwater Infrastructure Plan

- Council approved Green Stormwater Infrastructure Plan in September 2019
 - High level comprehensive plan
 - Capture and treat 1,068 ac-ft run-off (2050)
 - Identified 6 potential regional projects
- Council direction to update the Plan with outreach, funding strategy, and list of nearterm projects



Background / GSI Drivers

- Municipal Regional Stormwater Permit
- Consent Decree
- Alignment with City Initiatives
- Citywide shift to green stormwater infrastructure
- Reduces run-off and pollutants, and provide additional benefits



GSI Plan Coordination

- Conducts internal meetings with other departments, stakeholders including the Parks and Recreation Commission, Baykeeper, Save the Bay, Open Space Authority, City Council offices, park advocates and the community
- Continue to reach out to other public agencies and organizations seeking for opportunities



GSI Plan Update

- Develop an inclusive communications strategy
- Develop a list of near-term projects and approaches with a funding strategy for capital and ongoing maintenance
- Include elements from the GSI plan in projects where eligible grant funding is available
- Pursue partnerships



Site Analysis and Selection

- Added additional sites to the database
- Evaluated each site using several factors
- Identified several general locations/sites to meet the requirement
 - Park land, City-owned land, private- and other agency-owned land, and big-box stores



Where the Water Goes





Recommendations

- 1. Provide funding to support Story-Keyes Corridor Completed Street Project
- 2. Conduct a detailed feasibility analysis for the Sycamore Terrace regional project and Monterey Road (at Umbarger Road)
- 3. Look for funding opportunities to advance a feasibility analysis for other regional projects on the list

