# City of San Jose Green Stormwater Infrastructure Update

Park and Recreation Commission April 7th, 2021



#### 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



#### Where the Water Goes





## 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
  - Identified 6 potential regional projects
- Council direction to update the Plan with outreach, funding strategy, and list of nearterm projects



#### Comprehensive Citywide Approach

**Low Impact Development Project** 



#### **Green Street Projects**



#### **Regional Projects (River Oaks Conceptual Design)**





# Green Stormwater Infrastructure Needs

- Captures, retains, and infiltrates 1,068 ac-ft of stormwater runoff, with 833 ac-ft TBD
- Options include regional projects in city facilities, green-street, and low-impact development projects
- Compliance by 2050

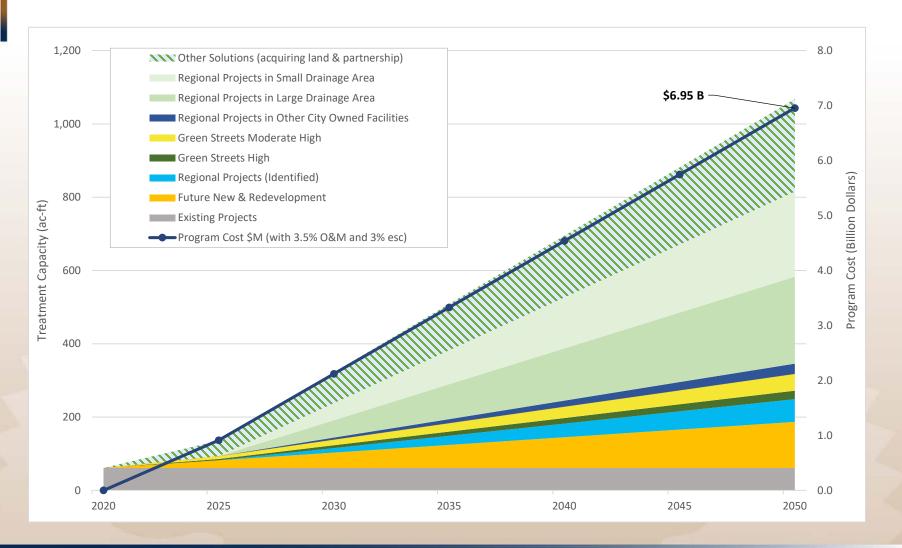


#### Site Analysis and Selection

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

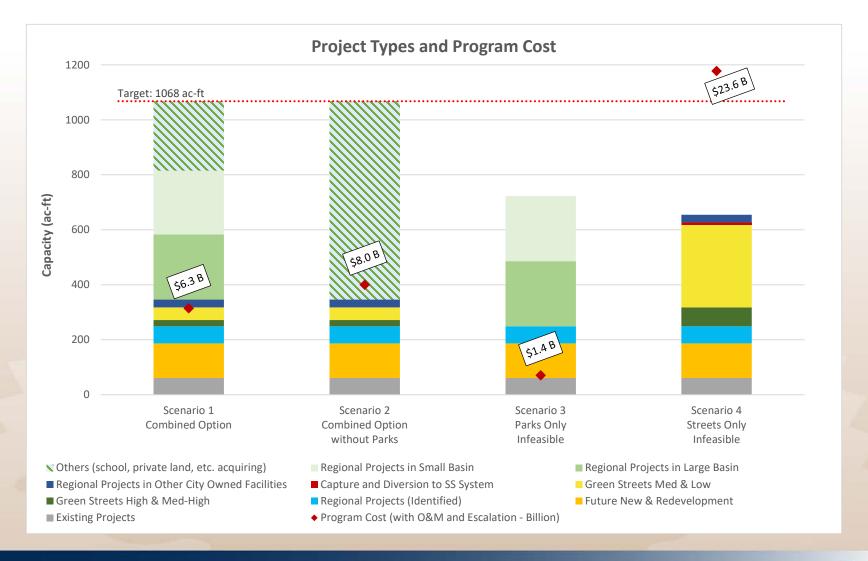


## Ideal Scenario to Meet the Target





#### Other Scenarios





## 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

<sup>(1)</sup> Indicates site that was included in 2019 GSI Plan



<sup>(2)</sup> Indicates site operated by PRNS

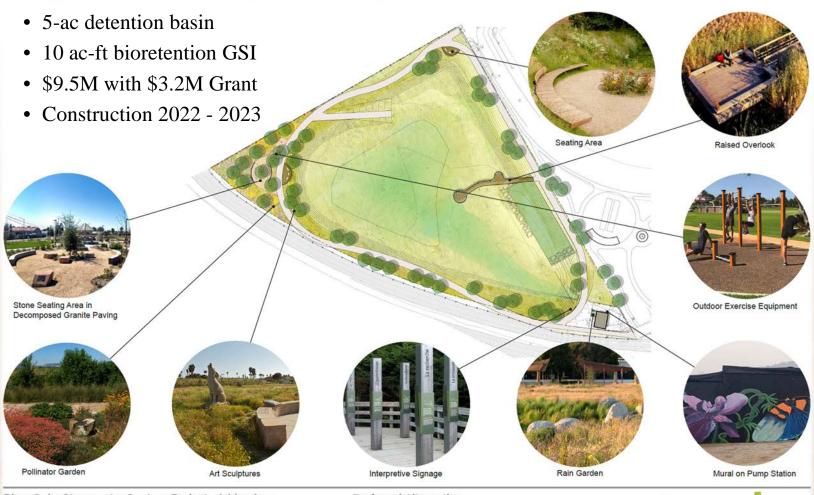
### Near-term Green-Street Projects

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



#### River Oaks Conceptual Designs



River Oaks Stormwater Capture Project - Addendum
January 29, 2021

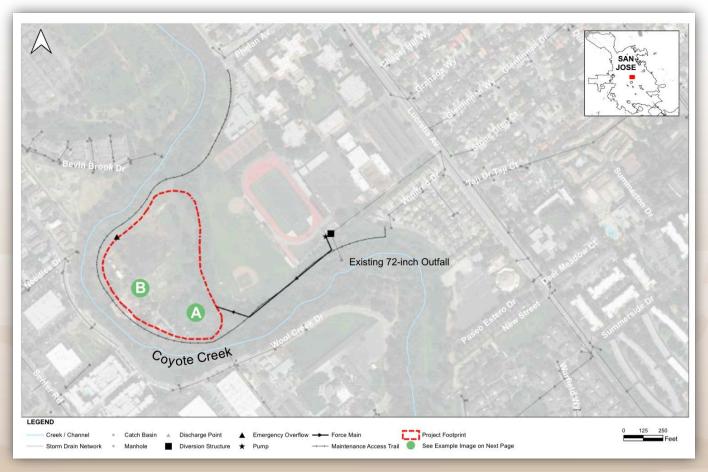
Preferred Alternative





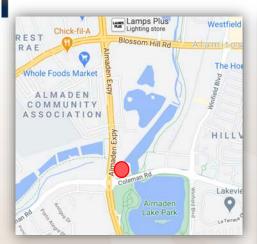






City land south of Phelan – 2019 GSI Plan Concept



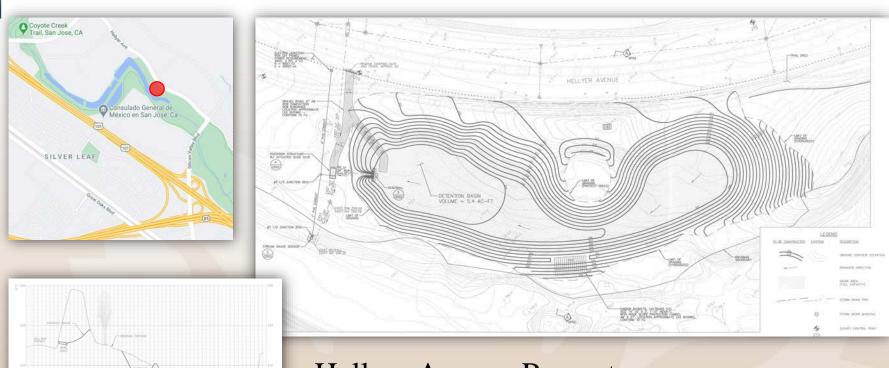






Sycamore Terrace

















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



#### Preliminary Conceptual Designs & Ideas



Green-street Design Guidelines

#### Chynoweth Project





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