



Storm Water Management Oversight Committee

Wednesday, May 13, 2020
1 pm to 3 pm
Special Meeting

*****BY VIRTUAL TELECONFERENCE ONLY*****

<https://zoom.us/join> Meeting ID: 971 6162 1501 Phone: 1(669)900-6833

Pursuant to the provisions of California Governor's Executive Order N-29-20, issued on March 17, 2020, to prevent the spread of Covid-19, this meeting will be held by virtual teleconference only, with no physical location.

Agenda posted in accordance Government Code Section 54954.2(a) or 54956.

PUBLIC COMMENT

Members of the public who wish to participate by computer or phone can find the instructions at the end of this agenda. To ensure participation in a particular item, we suggest calling in or connecting online 15 minutes before the item you wish to speak on.

Call to Order (5 min)

Oral Communications (5 min)

Members of the public may speak to any item NOT on the agenda. A reasonable time restriction may be imposed at the discretion of the Committee Chair.

Old Business (10 min)

1. Approval of Minutes From the February 13, 2020 Storm Water Management Oversight Committee Meeting (5 min)
2. Staff summarizes results from Survey Monkey (5 min)

New Business

3. Staff Presentation on the Fiscal Year 2019 Fund Expenditures and Fiscal Year 2021 Proposed Budget for the Storm Water Management Fund (10 min)
4. Committee Discussion on Findings of the Fiscal Year 2019 Fund Expenditures and Fiscal Year 2021 Budget Projections and adoption of the Committee Memo on FY 2019 Fund and Committee Memo on Expenditures FY 2021 Proposed Budget (15 min)
5. Staff Presentation on Capital Improvement Program Project (15 min)

6. Staff presentation on EPA Water Quality Improvement Fund Grant Application and Rinconada GSI project (10 min)
7. Committee approval to send a support letter for the EPA Water Quality Improvement Fund Grant Application (5 min)
8. Staff Presentation on Stormwater Maintenance Program (20 min)

Committee Member Comments and Announcements (10 min)

Tentative Agenda Items for Future Meetings and Review Action Items (5 min)

Adjournment

AMERICANS WITH DISABILITY ACT (ADA)

Persons with disabilities who require auxiliary aids or services in using City facilities, services or programs or who would like information on the City's compliance with the Americans with Disabilities Act (ADA) of 1990, may contact (650) 329-2550 (Voice) 24 hours in advance.

Public Comment Instructions

Members of the Public may provide public comments to teleconference meetings via email, teleconference, or by phone.

1. Spoken public comments using a computer will be accepted through the teleconference meeting. To address the Council, click on the link below to access a Zoom-based meeting. Please read the following instructions carefully.
 - A. You may download the Zoom client or connect to the meeting in browser. If using your browser, make sure you are using a current, up-to-date browser: Chrome 30+, Firefox 27+, Microsoft Edge 12+, Safari 7+. Certain functionality may be disabled in older browsers including Internet Explorer.
 - B. You may be asked to enter an email address and name. We request that you identify yourself by name as this will be visible online and will be used to notify you that it is your turn to speak.
 - C. When you wish to speak on an Agenda Item, click on "raise hand." The Clerk will activate and unmute speakers in turn. Speakers will be notified shortly before they are called to speak. When called, please limit your remarks to the time limit allotted.
 - D. A timer will be shown on the computer to help keep track of your comments.
2. Spoken public comments using a smart phone will be accepted through the teleconference meeting. To address the Council, download the Zoom application onto your phone from the Apple App Store or Google Play Store and enter the Meeting ID below. Please follow the instructions B-E above.
3. Spoken public comments using a phone use the telephone number listed below. When you wish to speak on an agenda item hit *9 on your phone so we know that you wish to speak. You will be asked to provide your first and last name before addressing the Council. You will be advised how long you

have to speak. When called please limit your remarks to the agenda item and time limit allotted.

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Storm Water Management Oversight Committee

DRAFT Thursday, February 13th, 2020

Special Meeting

Art Center Meeting Room, Palo Alto Art Center

1:00 pm

Committee Members Present:

David Bower, Peter Drekmeier, Marilyn Keller, Hal Mickelson, Ron Owes, Bob Wenzlau

Committee Members Absent:

Dena Mossar

Public Members Present:

David Moss (Parks and Recreation Commission, Liaison)

Staff Present:

Pam Boyle Rodriguez, Michel Jeremias, Karin North, Loretta Olmos, Vicki Thai, Isabel Zacharczuk

Call to Order: 1:04 by Chairperson Mickelson.

Oral Communications: None

Old Business

1. Approval of Minutes from the December 12th, 2020 Storm Water Management of Oversight Committee Meeting.

New Business

2. Presentation on the Fiscal Year 2019 Expenditures for the Storm Water Management Fund / 3. Committee Discussion and Report to Council on Findings of the Fiscal Year 2019 Expenditures for the Storm Water Management Fund
 - North: moved dollars from Innovative Projects to help fund GSI Plan Implementation.
 - Keller: why is the dollar amount lower for actual expenses?
 - i. North: A lot of the City's consultant support for RFPs is taking 9+ months for approval due to only having one contract administrator. As a result, projects are being pushed out and money is being carried over.
 - Keller: can SWMOC help with staffing limitations/procurement concerns? SWMOC can consider sending a letter to Council that outlines these concerns?
 - i. North: this can be included in a letter to Council regarding budget (since SWMOC sent a letter to Council last year following budget process).
 - Wenzlau: do any of these Purchasing delays create a compliance problem?
 - i. North: No—the Stormwater Management Fee (SWMF) created a new position for the City (Associate Engineer for the Watershed Protection Group).
4. Staff Presentation on Capital Improvement Project



Storm Water Management Oversight Committee

- a. Jeremias: the Storm Drain CIP list was established to meet 10-year storm requirements by design and prepared during the Storm Drain Master Plan.
 - i. Highest priority: East Bayshore/Corporation project—ponding occurs because flap gates are gravity-driven. If there is not enough pressure behind flap gate *and* creek levels are too high, then ponding will occur behind flap gates.
- b. Some projects timelines are shifting so these projects don't overlap with other City CIPs, such as the Bike Bridge project over 101.
- c. Drekmeier: regarding project sequencing—what if we accrued funding and waited until a recession to do more projects at a lower cost?
 - i. Jeremias: right now, City is completing one project per year to stay on schedule (assuming City has enough funds)—not sure if we can keep on this track.
- d. Drekmeier: is it possible to have three projects going on at the same time?
 - i. Jeremias: yes, rehabilitation projects occur at the same time as SDMP projects.
 - ii. Wenzlau: is there any way to borrow on the fund to pull money forward and construct projects sooner than later (if interest rates are lower than inflation)?
 1. Jeremias: City hasn't evaluated SWMF to see if this can be done, but can be considered for creative spending.
 2. North: Stormwater is an enterprise fund—possible to borrow and then pay back in the future. Staff will consider. If we had “shovel-ready” designs, these would be a good option for low interest rate loans.
- e. Mickelson: letter to Council needs to clearly state that SWMF budget is being used appropriately. Council may ask—“we're three years into a 15-year fund, and not much is happening in terms of completed projects”; what is the concise way for SWMOC to respond to that concern?
 - i. North: the goal from the start was to let SWMF fund build up in the first few years, so that it could be spent quickly once money accumulated.
 - ii. Jeremias: City benefits from completing certain projects in parallel, which is why certain projects haven't been completed as early as possible. Also, certain projects were being completed when SWMF first began (that were not part of the SDMP project list).
- f. Vicki Thai: presenting on Loma Verde project (Vicki is the design engineer)
 - i. Design Overview: intersection of Loma Verde and Louis Road all the way to canal easement, past Maddux Drive.
 1. Storm drain currently lacks capacity for 10-year storm—proposing to upsize storm drain main line. Increasing diameter and material of the pipe (moving away from reinforced concrete pipe).
 2. Replacing storm drain laterals and catch basins, in addition to main line. Resurfacing the roads and replacing striping. Replacing handicap ramps since some are not currently ADA-compliant.
 3. Wenzlau: why is RCP (reinforced concrete pipe) being replaced with HDPE (high density polyethylene) for new pipe material?
 - a. Thai: HDPE material is stronger and part of City standards.



Storm Water Management Oversight Committee

4. Wenzlau: why are laterals being replaced as part of the project? Are they part of the capacity issue (in addition to the main line)?
 - a. Vicki: City staff won't know lateral conditions until we dig them up, but some need to be replaced based on design elevation of storm drain pipe (pipe may have been dropped in new design to make a new connection around existing Utilities). If catch basins and laterals are in good condition and can be connected, then they will be saved; but, cost is being calculated to replace the laterals so that budget is accounted for.
- ii. GSI Inclusion:
 1. Considered bioretention sizing relative to the amount of water that needs to be treated and bioretention location—want to avoid tree dripline since that would be too close to tree rootball.
 - a. Spoke to City's Landscape Architect—didn't think it was the best idea to incorporate GSI into this specific project.
 2. Space is limited on this project site, especially since a lot of fiber runs through planting strips—Utilities can be as shallow as eight inches and as deep as two feet. Ideal to avoid Utilities with GSI installation.
 3. Wenzlau: notion that bioretention can't be installed near trees is issue for Palo Alto in particular, being a "Tree City"—ask staff to work harder to accommodate GSI near trees. Not being able to install GSI near trees would undermine our aspiration to install GSI throughout the City.
 4. North: understands that staff will coordinate further with Engineering to accommodate GSI with trees—GSI Implementation Plan will also focus on streamlining this coordination.
 5. Keller: trees can hold significant amount of water—does not want staff to lose sight of tree benefits for stormwater management and quality. Trees also delay waterfall by about 5 minutes to help moderate flow.
 6. Wenzlau: have semi-permeable bottoms in storm drain lines been considered? To function similar to an infiltration system?
 - a. Thai: staff discussed holes under storm drain pipe—may not be necessary for Loma Verde project. Some catch basins in the City have holes drilled to allow water to pour out. Also need to be careful of high groundwater table in this area.
 7. Boyle Rodriguez: can consider allowing tree roots to grow under sidewalks and implementing treatment soil.
 8. Bower: is it worthwhile to have a liaison between Parks and Rec and Stormwater to discuss GSI options before trees are installed?
 - a. Moss: Walter Passmore is responsible for this coordination.
5. Staff Presentation on Progress on Stormwater Compliance Program (Pam Boyle Rodriguez)
 - a. Let staff know if someone else would like a hard copy of the GSI Plan.
 - b. Working with Office of Sustainability and Utilities staff to develop GSI/Sustainability Policy—policy and associated tools can be reviewed during December 2020 meeting.



Storm Water Management Oversight Committee

- c. Green Streets Symposium: Pam Boyle Rodriguez and Sylvia Star-Lack (Transportation) have helped with planning. Holly Boyd will present on Charleston-Arastradero Corridor. Speakers from City of San Jose, SFEI, and other transportation-related efforts to present.
- d. David Moss: Is Stormwater presenting to Parks and Recreation Commission soon?
 - i. Boyle Rodriguez: have not finalized agenda with Daren yet.
- e. Keller: who is the consultant for the funding analysis contract?
 - i. Boyle Rodriguez: SCI Consulting Group (recently helped City of Cupertino pass stormwater ballot measure).
- f. Grant Proposal: considering a certification program for Grassroots Ecology (GrE) and Conservation Corps staff, in addition to a parking lot improvement program for downtown parking lots or parks throughout the City.
- g. Wenzlau: GSI can be a good learning opportunity—can we install GSI on school sites?
 - i. Boyle Rodriguez: Stormwater staff meeting with Sustainability Director for PAUSD to start discussions.
 - ii. Drekmeier: consider working with Sustainable Schools Committee.
- h. Drekmeier: is staff familiar with San Francisco onsite water reuse policy?
 - i. KN: no plans to incorporate at this time, but we can talk further about this.
- i. Tentative GSI Project—Hopkins at Rinconada Park
 - i. Coordinating with City's Landscape Architect. No storm drainage on Hopkins.
- j. June meeting may include tour of JMZ and new GSI as part of agenda.
- k. Grassroots Ecology (GrE) Partnership
 - i. Drekmeier: where does the overflow go in Southgate?
 1. PBR: infiltration columns are installed in bioretention in Southgate since there is no storm drain system in this neighborhood.
 - ii. Bioretention has accumulated plants not part of original design. Rocks used to be best practice, but mulch is currently best practice for bioretention. Site prep will include rock removal, soil testing and amendment, new mulch, new plants, and fixed irrigation.
 - iii. Peter: are we able to use some GSI funding to hire GrE to do some of this work?
 1. PBR: Not currently. New RFP for GSI Implementation will include five years of maintenance help. GrE found out yesterday (2/12/20) that they received a grant from Valley Water to update other GSI in Southgate. Grant will pay for GrE staff for some of this work.
 - iv. Planting Day will be Saturday, April 11th—SWMOC encouraged to attend
- l. Mentioned NVCAP and upgrades that are being planned for Boulware Park

Committee Member Comments and Announcements

- No announcements – adjourned at 3:03 pm

Tentative Agenda Items for Future Meetings and Review Action Items

- Staff will send out Survey Monkey to prioritize future agenda items.
- Staff will check in with SWMOC ten (10) days prior to upcoming meetings to confirm quorum.



Storm Water Management Oversight Committee

MEMORANDUM

Date: February 13, 2020

To: Honorable Finance Committee of the Palo Alto City Council

From: Members of the Storm Drain Oversight Committee

Subject: Review of Fiscal Year 2019 Storm Drainage Fund Expenditures

As directed by the City Council, the Committee met to discuss the Fiscal Year 2019 Storm Drainage (Stormwater Management) Fund expenditures on Thursday, February 13, 2020. Prior to the meeting, Public Works staff provided informational materials about the approved 2017 ballot measure and the proposed budget for the Committee's review. During the meeting, staff presented information and answered questions from the Committee members.

We have reviewed the expenditures for Fiscal Year 2019 and compared it with the provisions of the Storm Water Management Fee approved by Palo Alto property owners in 2017. We find that the attached spreadsheet describing the expenditures for Fiscal Year 2019 fairly summarizes the use of the revenue generated by the Storm Water Management Fee and that the expenditures are compatible with the provisions of the ballot measure. The Committee observed that the available funds for innovative green infrastructure were not fully expended. The Committee encourages staff to adjust and promote the innovative programs to achieve the City's goals for innovative green infrastructure.

Attachment: Stormwater Management Program – Fiscal Year 2019 Actual Expenditures

STORMWATER MANAGEMENT PROGRAM

Fiscal Year 2019 Actual Expenditures

(Amounts in 1000s, as of February 2020)

	Actual Expenses Year 1 2018	Adopted Budget Year 2 2019	Carry Forward Budget from FY 2018	FY2019 Budget (incl. Carry Forward) Year 2 2019	Actual Expenses Year 2 2019
Revenue Collected	7,123	7,379	0	7,379	7,249
Fee Revenue	6,912	7,128	0	7,128	7,195
Interest Earnings	154	130	0	130	2
Development Fees & Violation Fines	57	120	0	120	53
Base Components	4,840	5,194	53	5,247	3,037
Base Program (Incl. Water Quality, Flood Control)	2,555	2,645	39	2,684	1,428
Storm Drainage Maintenance	1,338	1,599	14	1,613	1,350
Debt Service for Past Capital Project	947	949	0	949	259
Project & Infrastructure	5,324	4,299	2,097	6,396	2,079
Capital Improvements Program	4,398	2,200	1,001	3,201	1,058
Loma Verde Ave Trunk Line Improvements (#1/ SD-19000)	0	2,200	0	2,200	45
Matadero Creek Storm Water Pump Station (SD-13003)	4,359	0	1,001	1,001	1,013
Channing Ave / Lincoln (SD-11101)	39	0	0	0	0
Recurring System Repair (SD-06101)	400	1,412	1,048	2,460	462
Capital Program Engineering Support	158	182	0	182	182
Green Stormwater Infrastructure (GSI)	366	380	49	429	376
GSI - CIP Design/Construction	330	330		330	330
GSI - Consulting Services	36	50	49	99	46
GSI - Other unassigned tasks	0	0		0	0
Innovative Project	2	125	0	125	1
Innovative Project - GSI consulting Services	0	100	0	100	0
Innovative Project - Rebates	2	25	0	25	1
Total Expenses	10,164	9,493	2,150	11,643	5,116



Storm Water Management Oversight Committee

MEMORANDUM

Date: May 13, 2020

To: Honorable Finance Committee of the Palo Alto City Council

From: Members of the Storm Water Management Oversight Committee

Subject: Review of the Proposed Fiscal Year 2021 Storm Drainage Fund Budget

As directed by the City Council, the Committee met to discuss the Fiscal Year 2021 proposed Storm Drainage (Stormwater Management) Fund budget on Wednesday, May 13, 2020. Prior to the meeting, Public Works staff provided informational materials about the approved 2017 ballot measure and the proposed budget for the Committee's review. During the meeting, staff presented information and answered questions from the Committee members.

We have reviewed the proposed budget for Fiscal Year 2021 and compared it with the provisions of the Storm Water Management Fee approved by Palo Alto property owners in 2017. We find that the attached spreadsheet describing the proposed budget for Fiscal Year 2021 fairly describes the relationship between the budget and the ballot measure. Staff and the Committee concur that funding generated by the Storm Water Management Fee will be applied solely to fund the capital improvement projects, green stormwater infrastructure projects, innovative stormwater projects, enhanced maintenance of storm drain system, and storm water quality protection programs specified for implementation in the ballot measure in Fiscal Year 2021. Because funds available for innovative projects are not being utilized fully, the Committee supports efforts by staff to continue to identify and promote new projects that meet the goals associated with the ballot measure as soon as possible.

Attachment: Fiscal Year 2021 Proposed Budget

STORMWATER MANAGEMENT PROGRAM

Fiscal Year 2021 Proposed Budget

(Amounts in 1000s, as of May 2020)

	Adopted Budget Year 1 2018	Adopted Budget Year 2 2019	Adopted Budget Year 3 2020	Projection Year 3 2020	Proposed Budget Year 4 2021
Revenue Collected	7,178	7,379	7,796	8,075	7,909
Fee Revenue	6,927	7,128	7,449	7,919	7,635
Interest Earnings	130	130	226	98	153
Development Fees & Violation Fines	121	120	121	58	121
Total Revenue	7,178	7,379	7,796	8,075	7,909
Base Components	5,209	5,194	5,003	5,044	5,470
Base Program (Incl. Water Quality, Flood Control)	2,776	2,645	2,547	2,474	2,786
Storm Drainage Maintenance	1,486	1,599	1,507	1,621	1,735
Debt Service for Past Capital Project	947	949	949	949	949
Project & Infrastructure	1,063	3,299	3,566	3,845	2,510
Capital Improvements Program	0	2,200	2,502	2,533	1,866
Loma Verde Ave Trunk Line Improvements (#1/ SD-19000)		2,200	2,090	2,073	
Matadero Creek Storm Water Pump Station (SD-13003)				14	
Channing Ave / Lincoln (SD-11101)					
West Bayshore Road Pump Station (#4/ SD-20000)			206	242	167
Corporation Way System Upgrades and Pump Station (#2/ SD-21000)			206	204	1,655
East Meadow Drive System Upgrades (#7/ SD-22000)					
West Bayshore Road Trunk Line Improvements (#3/ SD-23000)					44
Louis Road System Upgrades (#11/ SD-24000)					
Recurring System Repair (SD-06101)	400	412	424	754	0
Capital Program Engineering Support	158	182	135	164	139
Green Stormwater Infrastructure (GSI)	380	380	380	333	380
GSI - CIP Design/Construction	330	330	340	0	250
GSI - Consulting Services	85	50	40	333	130
GSI - Other unassigned tasks	15	0			
Innovative Project	125	125	125	61	125
Innovative Project - GSI Consulting Services & Outreach	0	100	100	58	100
Innovative Project - Rebates	125	25	25	3	25
Total Expenses	6,272	8,493	8,569	8,889	7,980
Net Impact	907	(1,114)	(773)	(814)	(71)

CITY OF PALO ALTO

Agenda Item #5


STORM DRAIN CAPITAL IMPROVEMENT PROJECTS LIST

STORMWATER MANAGEMENT OVERSIGHT COMMITTEE MEETING - MAY 2020

Ballot Measure	SD Master Plan #	Project Names (Blue Ribbon Committee's Recommended List Names)	Priority	Program	Budget Book #	Design	Construction	Notes
1	11	Loma Verde Ave Capacity Upgrade	High	Yes	SD-19000	In-house	FY 2021	1
2	1	Corporation Way & E Bayshore Road Pump Station to Adobe Creek	Highest	Yes	SD-21000	Outside consultant	FY 2021-2023	2
3	3	W Bayshore Road to Adobe Creek Capacity Upgrade	High	Yes	SD-23000	Outside consultant	FY 2023-2024	2
4	4	W Bayshore Road Pump Station to Adobe Creek	High	Yes	SD-20000	Outside consultant	FY 2021-2023	2
5	5	E Charleston Rd & Adobe Crk Capacity Upgrades	High			In-house	FY 2030	3
6	6	E Meadow Circle Connect to Adobe Creek Pump Station	High	Yes	SD-22000	In-house	FY 2024	4
7	7	E Meadow Drive Capacity Upgrades	High			In-house	FY 2029	3
8	8	Fabian Way Capacity Upgrades	High			In-house	FY 2031	3
9	9	Hamilton Ave (Center-Rhodes) Capacity Upgrades	High			In-house	FY 2027	3
10	12	Louis Rd (Embarcadero to Seale-Wooster Canal Easement) Capacity Upgrades	High			In-house	FY 2028	3
11	13	Louis Rd (Seale-Wooster Canal to Matadero Creek) Capacity Upgrades	High	Yes	SD-24000	In-house	FY 2025	4
12	32	Colorado Pump Station Removal	Low			In-house	FY 2032	3
13	15	Center Drive (Hamilton to Channing) Capacity Upgrade	Moderate			In-house	FY 2026	3

Notes:

- 1 Solicitation period was from March 24 - April 15. Seven bids were received, bids range from \$1.9M to \$4.1M. Council to award the construction contract on June 1 to Stoloski & Gonzalez Inc.
- 2 Council to award the design contract on June 1 to Schaaf & Wheeler Consulting Engineers.
- 3
- 4 Current tentative schedule based on available funds and assuming 1 project construction per a year. Project design will need to be done a year in advance.
- 5 Ballot Measure projects 6 and 11, moved out a year due to limited funding.
- 6 Ongoing projects - Solicitation for construction bids for the repair of Alma Street / Oregon Expressway Storm Drain Box Culvert Overpass project began on April 23 and will end in May 15.
- 7 The Final EIR/EA and the Proposed Project for the Newell Road Bridge Replacement Project is schedule to go to the Architectural Review Board on May 7 for approval. If approved, this project will go to City Council in June 2020 for Certification of Final EIR and Project approval.

A photograph of a stormwater management facility. In the foreground, a concrete wall with a green metal fence runs along the left side. Water is flowing through a series of concrete structures with blue and white striped curtains. The water is turbulent and white with foam. The background shows a large building with a dark roof and a blue sky with scattered white clouds.

Stormwater Management Oversight Committee Meeting

May 13, 2020

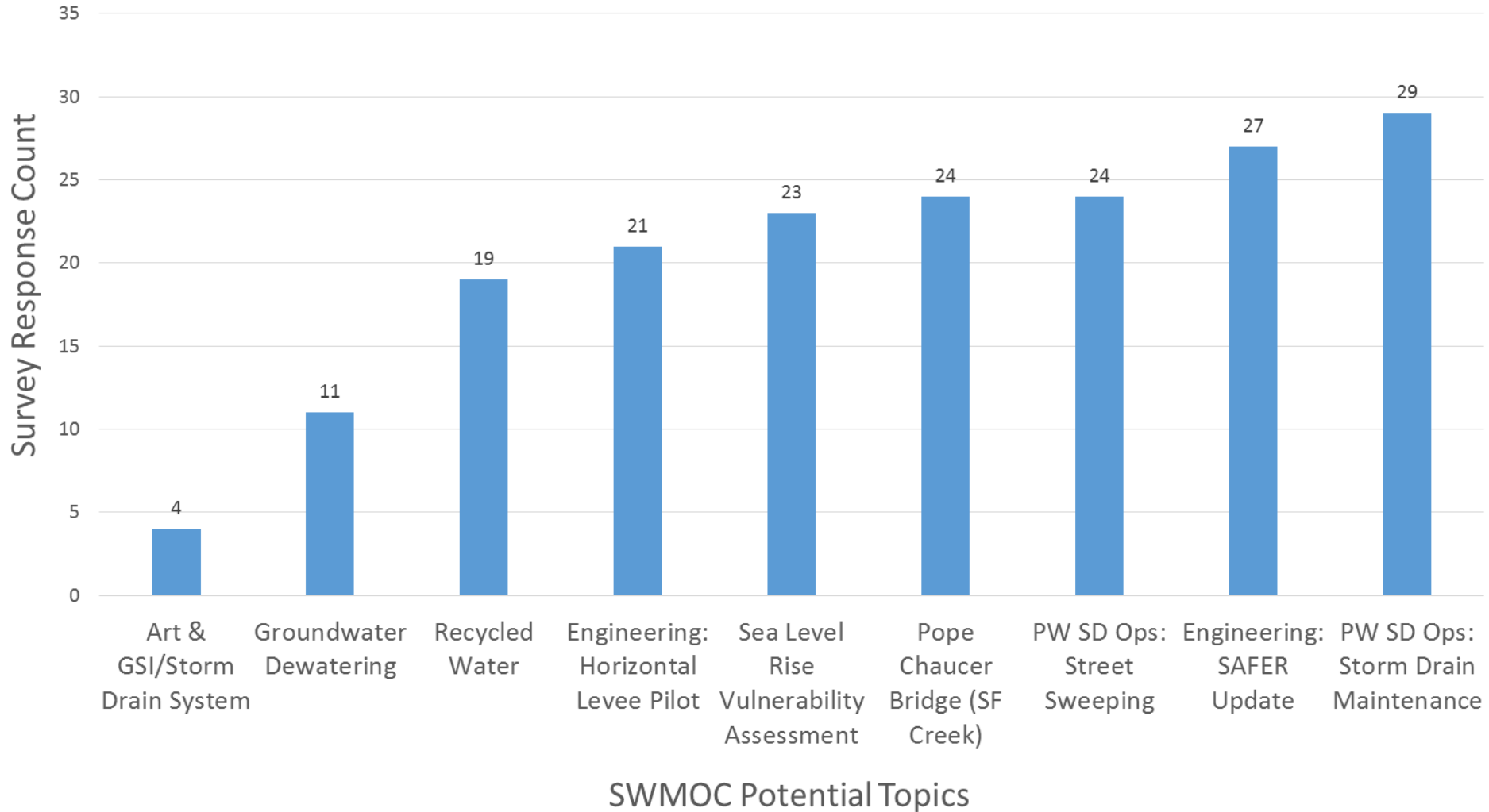
Agenda

1. Approval of Minutes from 2/13/2020
2. Summarize Survey Monkey Results
3. FY 19 FY 21 Budget and Discussion
4. Update on Capital Improvement Project
5. Update on Grant Application and Rinconada GSI Project; support letter
6. Presentation on Stormwater Maintenance Program
7. Committee member announcement



Survey Monkey Results

Interest in Potential SWMOC Topics





Preliminary FY 2021 budget

- SWM Fee Revenue
 - increase by CPI (~2.5%)
 - +\$186K
 - from \$7.45M to \$7.64M
- Operating
 - SCVURPPP – membership fee increase (\$10K)
 - Base program – increase (allocated charges)
 - Maintenance – no change
 - GSI & Innovative project – no change
- Capital
 - Planned CIPs – CPI increase
 - Adjusted for cost estimates

FY 2021 Proposed Budget

STORMWATER MANAGEMENT PROGRAM

Fiscal Year 2021 Proposed Budget
(Amounts in 1000s, as of May 2020)

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Recurring System Repair (SD-06101)	400	412	424	754	0
Capital Program Engineering Support	158	182	135	164	139
Green Stormwater Infrastructure (GSI)	380	380	380	333	380
GSI - CIP Design/Construction	330	330	340	0	250
GSI - Consulting Services	85	50	40	333	130
GSI - Other unassigned tasks	15	0			
Innovative Project	125	125	125	61	125
Innovative Project - GSI Consulting Services & Outreach	0	100	100	58	100
Innovative Project - Rebates	125	25	25	3	25
Total Expenses	6,272	8,493	8,569	8,889	7,980
Net Impact	907	(1,114)	(773)	(814)	(71)

GSI Preliminary Plan

	FY 2018 Actuals	FY 2019 Actuals	FY 2020 Projection	FY 2021 Proposed	FY 2022 Projection
Green Stormwater Infrastructure	366	376	333	380	380
GSI - CIP Design/Construction	330	330	-	250	110
GSI - Consulting Services	36	46	333	130	130
GSI - Other unassigned tasks	-	-	-	-	140
Innovative Project	2	1	61	125	125
Innovative Project – GSI Consulting Services	-	-	58	80	80
Innovative Project - Outreach	-	-	-	20	20
Innovative Project - Rebates	2	1	3	25	25
Innovative Project - Other unassigned tasks	-	-	-	-	-

GSI Budget Plan

Item	Details	FY20 Est.	FY21 Est.
GSI Plan Implementation	<ul style="list-style-type: none"> • Engineering Spec. Document • Maintenance & Monitoring Manual • Establish performance metrics & baseline • Further prioritization of GSI projects • Future permit requirement compliance 	\$260K (Year 1-2)	\$130K (Year 3)
Funding Needs & Strategy Analysis	<ul style="list-style-type: none"> • Determine funding opportunities and feasible fit (e.g. state grants and loans, public/private partnerships) 	\$58K	--
GSI Outreach and Education	<ul style="list-style-type: none"> • Promote Rebate Program and community-wide benefits • Develop outreach materials • Create an outreach strategy and plan to increase community support 	\$70K (Year 1-2)	\$20K
Bioretention Area Maintenance	<ul style="list-style-type: none"> • Support City Parks Department in maintaining bioretention areas • Begin to develop a trained workforce 	--	\$80K (Year 1)
Rebate Program	<ul style="list-style-type: none"> • Partner with Valley Water to issue rebates for rain barrels, cisterns, and rain gardens 	\$3K	\$25k

Planned CIP Projects

Capital Improvements Program (13)	FY 2020 Adopted Budget	FY 2021 Proposed
SD System Replacement & Rehabilitation (SD-06101)	424	0 ^[1]
Projects identified from Ballot	2,798	1,866
Loma Verde Ave Trunk Line Improvements (#1, SD-19000)	2,386	
Corporation Way System Upgrades and Pump Station (#2, SD-21000)	206	1,655 ^[2]
West Bayshore Road Pump Station (#4, SD-20000)	206	167 ^[2]
West Bayshore Road Trunk Line Improvements (#3, SD-23000)		44 ^[2]

Notes:

^[1] Approx. \$1.8 M of FY2020 Budget is proposed to be reappropriated into FY2021 as part of the SD System Replacement & rehabilitation CIP budget

^[2] Proposed budget for combined design contract of the CIP projects

Planned CIP Projects

Capital Improvements Program (13)	FY 2019 Adopted Budget	FY 2020 Adopted Budget	FY 2021 Proposed	FY 2022 Projection	FY 2023 Projection	FY 2024 Projection	FY 2025 Projection
SD System Replacement & Rehabilitation (SD-06101)	412	424	0*	225	464	478	0
Projects identified from Ballot	2,200	2,798	1,866	2,063	1,534	1,275	1,645
Loma Verde Ave Trunk Line Improvements (#1, SD-19000)	2,200	2,386					
Corporation Way System Upgrades and Pump Station (#2, SD-21000)		206	1,655	1,488			
West Bayshore Road Pump Station (#4, SD-20000)		206	167	350	720		
West Bayshore Road Trunk Line Improvements (#3, SD-23000)			44		814	1,000	
East Meadow Drive System Upgrades (#7, SD-22000)						54	538
Louis Road System Upgrades (#11, SD-24000)						221	1,108

*To be funded through reappropriations from FY20

Stormwater Capital Improvement Funds



Michel Jeremias, Senior Engineer

Rajeev Hada, Project Engineer

Vicki Thai, Engineer

CITY OF PALO ALTO
STORM DRAIN CAPITAL IMPROVEMENT PROJECTS LIST
 STORMWATER MANAGEMENT OVERSIGHT COMMITTEE MEETING - MAY 2020

Ballot Measure	SD Master Plan #	Project Names (Blue Ribbon Committee's Recommended List Names)	Priority	Program	Budget Book #	Design	Construction	Notes
1	11	Loma Verde Ave Capacity Upgrade	High	Yes	SD-19000	In-house	FY 2021	1
2	1	Corporation Way & E Bayshore Road Pump Station to Adobe Creek	Highest	Yes	SD-21000	Outside consultant	FY 2021-2023	2
3	3	W Bayshore Road to Adobe Creek Capacity Upgrade	High	Yes	SD-23000	Outside consultant	FY 2023-2024	2
4	4	W Bayshore Road Pump Station to Adobe Creek	High	Yes	SD-20000	Outside consultant	FY 2021-2023	2
5	5	E Charleston Rd & Adobe Crk Capacity Upgrades	High			In-house	FY 2030	3
6	6	E Meadow Circle Connect to Adobe Creek Pump Station	High	Yes	SD-22000	In-house	FY 2024	4
7	7	E Meadow Drive Capacity Upgrades	High			In-house	FY 2029	3
8	8	Fabian Way Capacity Upgrades	High			In-house	FY 2031	3
9	9	Hamilton Ave (Center-Rhodes) Capacity Upgrades	High			In-house	FY 2027	3
10	12	Louis Rd (Embarcadero to Seale-Wooster Canal Easement) Capacity Upgrades	High			In-house	FY 2028	3
11	13	Louis Rd (Seale-Wooster Canal to Matadero Creek) Capacity Upgrades	High	Yes	SD-24000	In-house	FY 2025	4
12	32	Colorado Pump Station Removal	Low			In-house	FY 2032	3
13	15	Center Drive (Hamilton to Channing) Capacity Upgrade	Moderate			In-house	FY 2026	3

Notes:

- 1 Solicitation period was from March 24 - April 15. Seven bids were received, bids range from \$1.9M to \$4.1M. Council to award the construction contract on June 1 to Stoloski & Gonzalez Inc.
- 2 Council to award the design contract on June 1 to Schaaf & Wheeler Consulting Engineers.
- 3
- 4 Current tentative schedule based on available funds and assuming 1 project construction per a year. Project design will need to be done a year in advance.
- 5 Ballot Measure projects 6 and 11, moved out a year due to limited funding.
- 6 Ongoing projects - Solicitation for construction bids for the repair of Alma Street / Oregon Expressway Storm Drain Box Culvert Overpass project began on April 23 and will end in May 15.
- 7 The Final EIR/EA and the Proposed Project for the Newell Road Bridge Replacement Project is schedule to go to the Architectural Review Board on May 7 for approval. If approved, this project will go to City Council in June 2020 for Certification of Final EIR and Project approval.

Storm Drain CIP

- The Loma Verde Avenue Trunk Line Improvement Project went out to bid March 24, 2020 and the bid closed on April 15, 2020.
- Bids were received from 7 contractors.
- The construction contract is scheduled to be approved by Council on June 1, 2020.

Storm Drain CIP

- The contract with Schaaf & Wheeler for the design of Corporation Way System Upgrade and Pump Station, West Bayshore Road Pump Station and West Bayshore Pipe Upgrades projects is scheduled to go to Council on June 1, for approval.
- Solicitation for the construction contract for the repair of Alma Street/Oregon Expressway Storm Drain Box Culvert Project was released on April 23, and this will end on May 15, 2020.
- Certification of Final EIR for Newell Road Bridge Replacement Project is scheduled for June 2020.

Grant Application and Rinconada GSI Project

Watershed Protection Group-Stormwater Compliance
Program

Pam Boyle Rodriguez
Isabel Zacharczuk

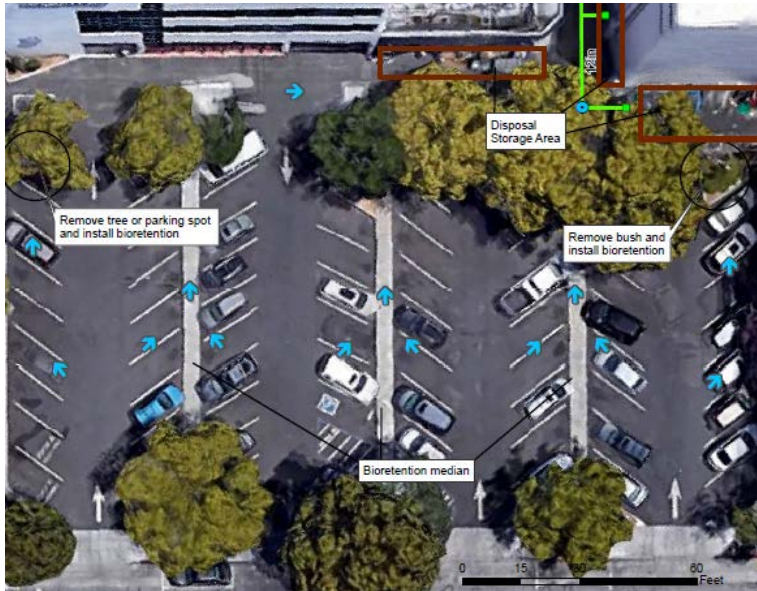
EPA Water Quality Improvement Fund Grant Application

- GSI measures in parking lots
- Additional green aspects: bike parking, refuse management, tree shading, efficient lighting
- \$350k cash match for Palo Alto (total grant=\$1.6 million)
- Partnership with Santa Clara Valley Urban Runoff Pollution Prevention Program & City of Santa Clara
- Application due May 13th
- Grant awarded September



Potential Parking Lot Locations

Lot A

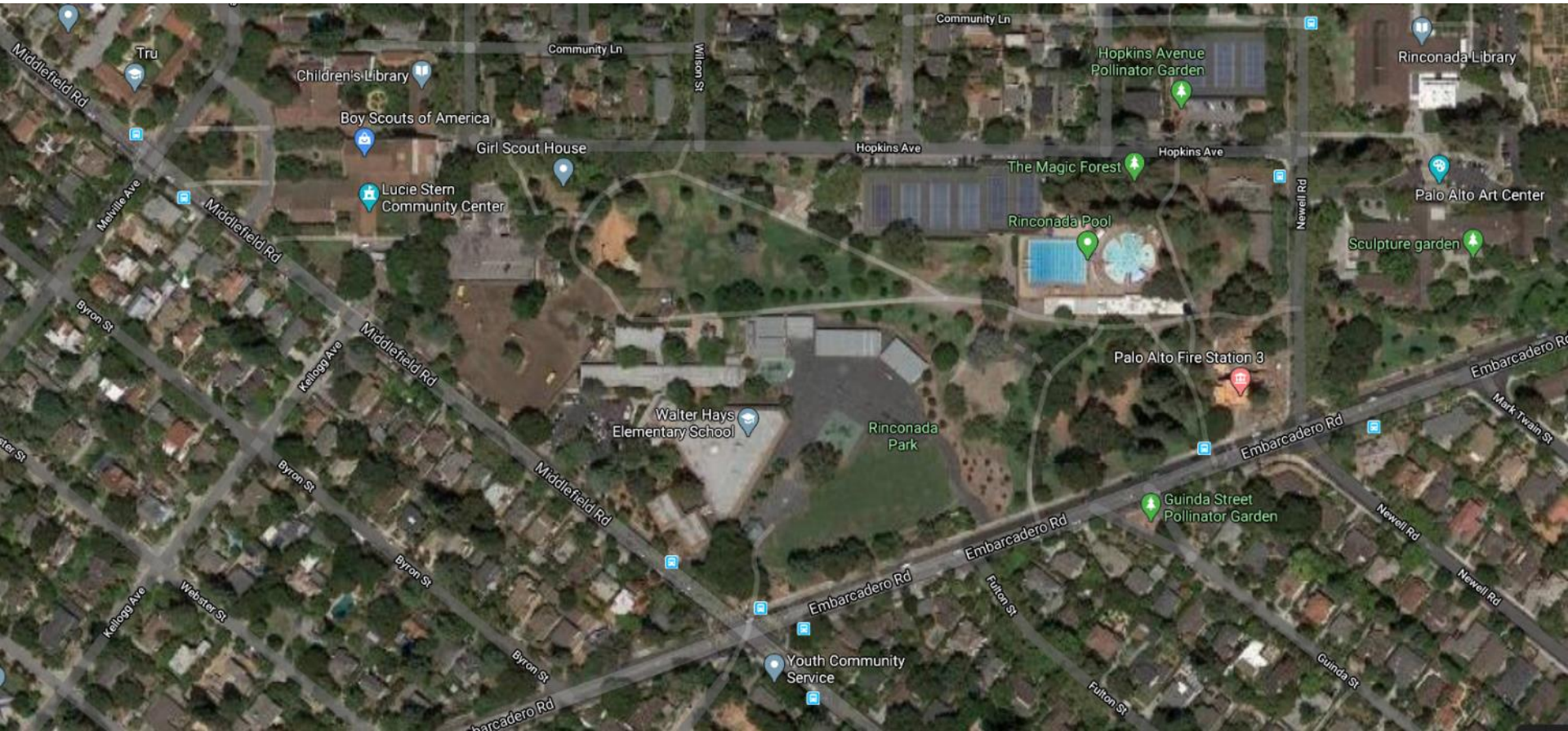


Lot P



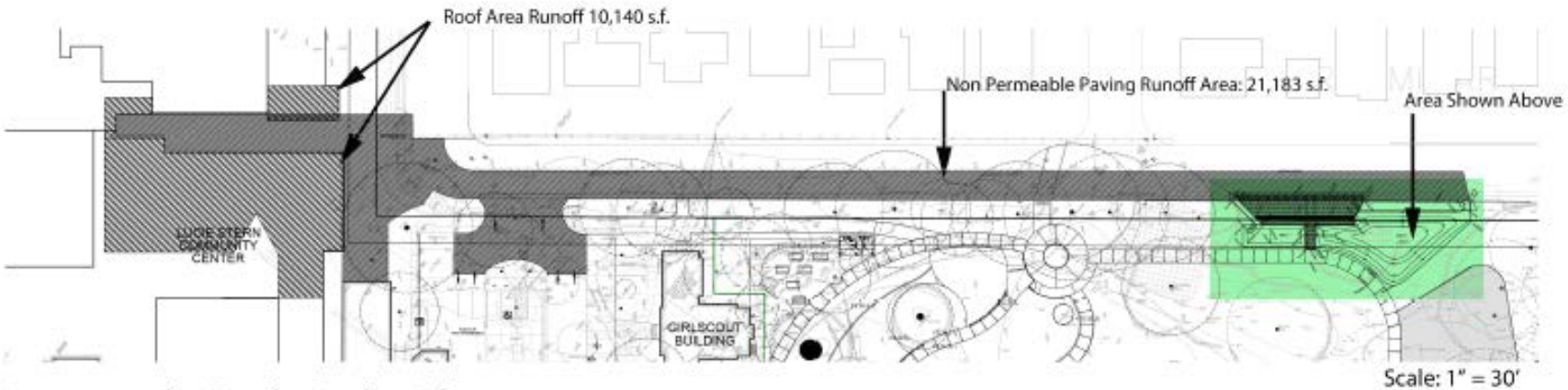
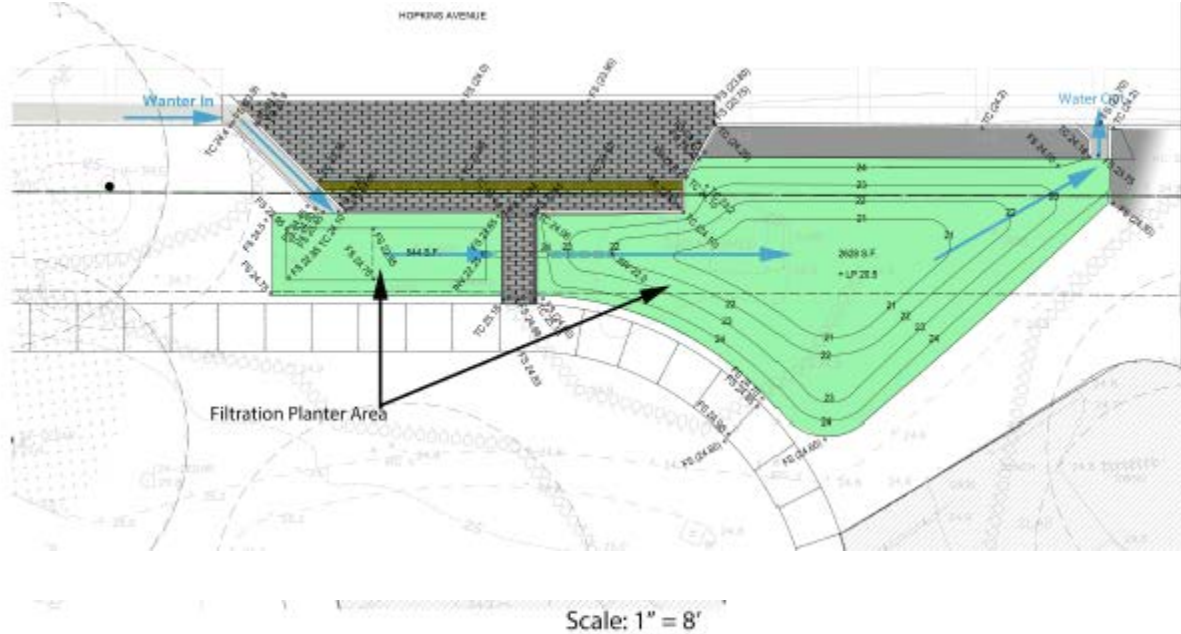
Lot H

Hopkins Avenue Project Location



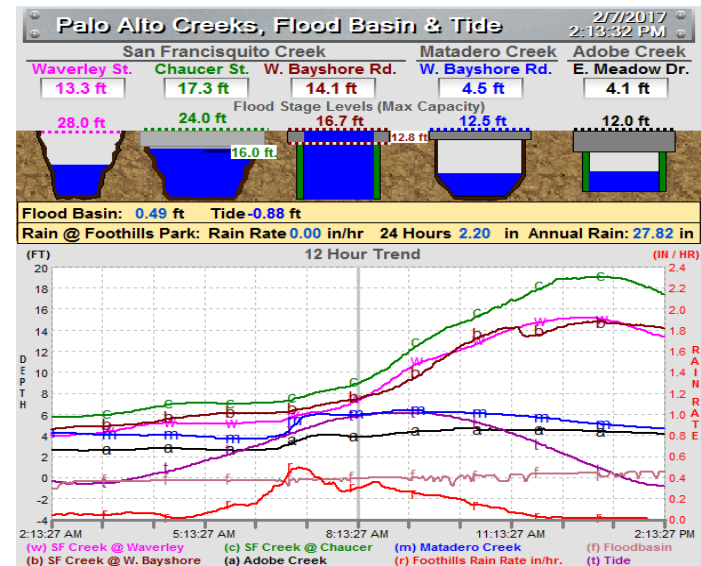
Hopkins Avenue @ Rinconada Park

Total budget=\$290K
Captures 31,323 sq. ft. of non-permeable street and roof surface



Street GSI Examples





Stormwater Maintenance

Jon Hospitalier – Assistant Director Public Works, Public Services

The Maintenance Program

- Calendar driven program
- Three categories of assigned responsibilities involving about 17 assigned tasks



Winter Preparations



Special Operations

Spill response emergencies

Camera inspection of the pipeline



Pump rehabilitation at University Underpass

Minor levy repairs



Calendar of Planned Work

Operation	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Hydro flushing 12-24"	■	■	■	■	■		■	■				■
Outfall and flap gates					■							
Tide gate clean off					■							
Diversion cleaning Bryant/ Channing										■		
Portable pump testing											■	
Targeted Hydro flushing 24" mains or greater						■						
Pump station wet well cleaning									■			
CB inspections/ cleaning										■		
Routine pipeline repairs						■	■					
CB repairs												■
Flushing Hot Spots											■	
Winter Storm Season	■	■	■								■	■



Public Services Division 2019