

2019 ADDENDUM TO THE STORM DRAIN MASTER PLAN



Why was the 2015 Storm Drain Master Plan developed?

The Town Council adopted the Storm Drain Master Plan (SDMP) as part of a proactive approach to determine the needs, costs, and priorities associated with managing the storm drain infrastructure. The SDMP has been critical in helping the Town understand the storm drain system capital improvement needs. The SDMP also identified the need for increased funding for Operations and Maintenance (O&M) work. The annual funding need identified by the 2015 SDMP was \$787,000.



2016 Sinkhole



Corroded corrugated metal pipe



Debris in pipe

Why is there a 2019 Addendum to the Storm Drain Master Plan?

Since the SDMP was adopted, the Town has gained a better understanding of the storm drain infrastructure located in Town. With a focus on Town managed assets, the capital improvement projects were re-prioritized to: i) give more weight to condition and nuisance related projects, and ii) deemphasize capacity-related concerns (in light of the absence of flooding emergencies). The Town's implementation during the past 18 months of a partially enhanced O&M Program enabled the Town to better understand and detail the necessary elements of a successful O&M Program. The 2019 Addendum consolidates this information and sets forth a more refined plan of action.

What are the highlights of the 2019 Addendum?

The 2019 Addendum identifies \$540,000 in annual funding needs for the next ten years to implement an enhanced O&M program and complete high and moderate priority capital improvement projects.

- ◆ Capital improvement projects were reprioritized and capacity-related projects are not recommended for funding in the 10-year plan. This resulted in a projected 10-year capital funding need of \$1 million, or approximately \$120,000 annually.
- ◆ A field mapping project to obtain accurate Geographic Information System (GIS) data on 21 miles of public infrastructure was completed. The project identified and mapped the Town's storm drain infrastructure, including the material, diameter, lengths and location of the assets. Funding of \$420,000 annually is now recommended for an enhanced O&M Program, including visual inspections, Closed-Circuit Television (CCTV) inspections, vector cleaning, and reactive and proactive spot repairs.

Enhanced Operations and Maintenance Program:

The enhanced O&M Program includes the following activities to properly maintain the Town’s storm drain system:

Additional Annual inspections	\$ 54,667
CCTV of 5,000 linear feet of pipe to determine pipe condition	\$ 12,500
5 days of Hydrovac work to ensure the system performs as designed	\$ 14,250
Proactive repairs (based on CCTV work)	\$115,000
Reactive repairs to address system failures	\$116,000
Program Administration	\$ 60,170
Maintenance of GIS storm drain asset inventory	\$ 27,456
Technical assistance	<u>\$ 20,000</u>
Total	\$420,043

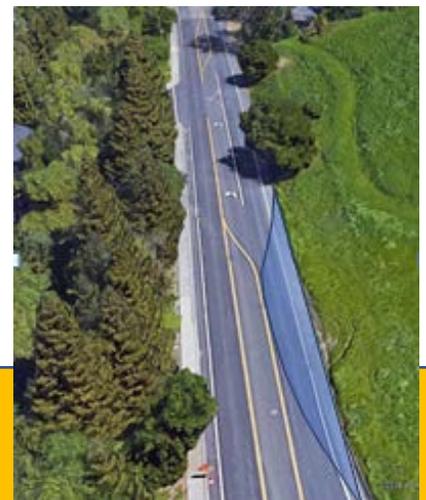
Capital Improvement Program:

The 2019 Addendum focused on updating cost estimates and re-prioritizing projects for the next 10 years based on the Town’s experience with failing storm drain systems and wetter winters over the past four years since the SDMP was finalized. Below is a list of the capital improvement projects recommended in the 2019 Addendum to be funded and completed in the next 10 years.

	2020 Cost	FY 21/22	FY 23/24	FY 25/26	FY 26/27	FY 29/30	FY 30/31
High Priority Projects							
Sedimentation Basin Study	\$20,000	\$21,000					
Corliss Drive Drain Inlets	\$40,000	\$42,000					
Moraga Road Drainage	\$220,000		\$269,000				
Ascot and Moraga Drain Inlet	\$210,000			\$250,000			
Bollinger Clean/Replace	\$70,000				\$86,000		
Moderate Priority Projects							
St. Mary’s Road Culvert Replacement	\$370,000					\$493,000	
Del Rio Way Cleaning	\$5,000						\$7,000
Rimer Drive Cleaning	\$5,000						\$7,000
Update Hydraulic Modeling	\$50,000						\$69,000
Total	\$990,000	\$63,000	\$269,000	\$250,000	\$86,000	\$493,000	\$83,000

Capital Improvement Project Example:

- Name:** Moraga Road Drainage (between Rheem Blvd & Dolores St)
- Issue:** The east side of this section of Moraga Road floods
- Repair:** Install roadside ditches and additional storm drain inlets
- Cost:** \$220,000



Questions or comments
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