



# Green Infrastructure Implementation

---

*SMCWPPP C.3 Workshop  
August 18, 2021*

---

Sven Edlund, City of San Mateo





# *Overview*

Strategy

Obstacles

Outlook





# *Strategy – Types of Projects*

## **Parcel-Scale**

- Private and Public Projects
- Parcel-scale Management
- Primarily Private Funding via New/Redevelopment

## **Green Streets**

- Street Projects
- Block-Scale Stormwater Management
- Primarily Local/State Transportation Funding

## **Regional Projects**

- Large Retention Projects (Parks, Schools, Large Public Parcels)
- Watershed-scale Management
- Primarily State/Federal Funding



# *Strategy – Regulatory*

Storm Ordinance

GI Plan

COAs

O&M Agreements

General Plan Components





# COA Example Language

**GREEN INFRASTRUCTURE** – In accordance with San Mateo Municipal Code Chapter 7.39, the applicant shall install and maintain green infrastructure (GI) improvements including *<insert improvements>* located *<insert location>*. The improvements shall be in accordance with the guidance and specifications provided by San Mateo Countywide Water Pollution Prevention Program or City of San Mateo GI Plan design and shall be approved by the Director of Public Works or designee or designee. Drainage capacity calculations shall be performed by a licensed Civil Engineer, whose signed Engineer's stamp shall appear on the calculations sheets, and shall be submitted to the City for review and approval with the project superstructure plans. GI improvements shall be maintained by the adjacent property owner and included in the stormwater treatment O&M (operation and maintenance) agreement that is recorded with the County of San Mateo Recorder's Office.

**Staff Notes:** [For Use when GI is in the public ROW] Applicable to all projects, except single-family homes, ADUs, and State ROW. Applicant shall provide green infrastructure to the maximum extent to treat storm water runoff from frontage and public ROW. Sizing and design shall conform to San Mateo Countywide Water Pollution Prevention Program City of San Mateo GI Plan design templates and technical guidance.



*Approved Project with GI*



# Concar Passage

14.5 acres

962 housing units

GI on all 3 frontage areas

Will treat 106,000 ft<sup>2</sup> of PROW



# *Approved Project with GI*

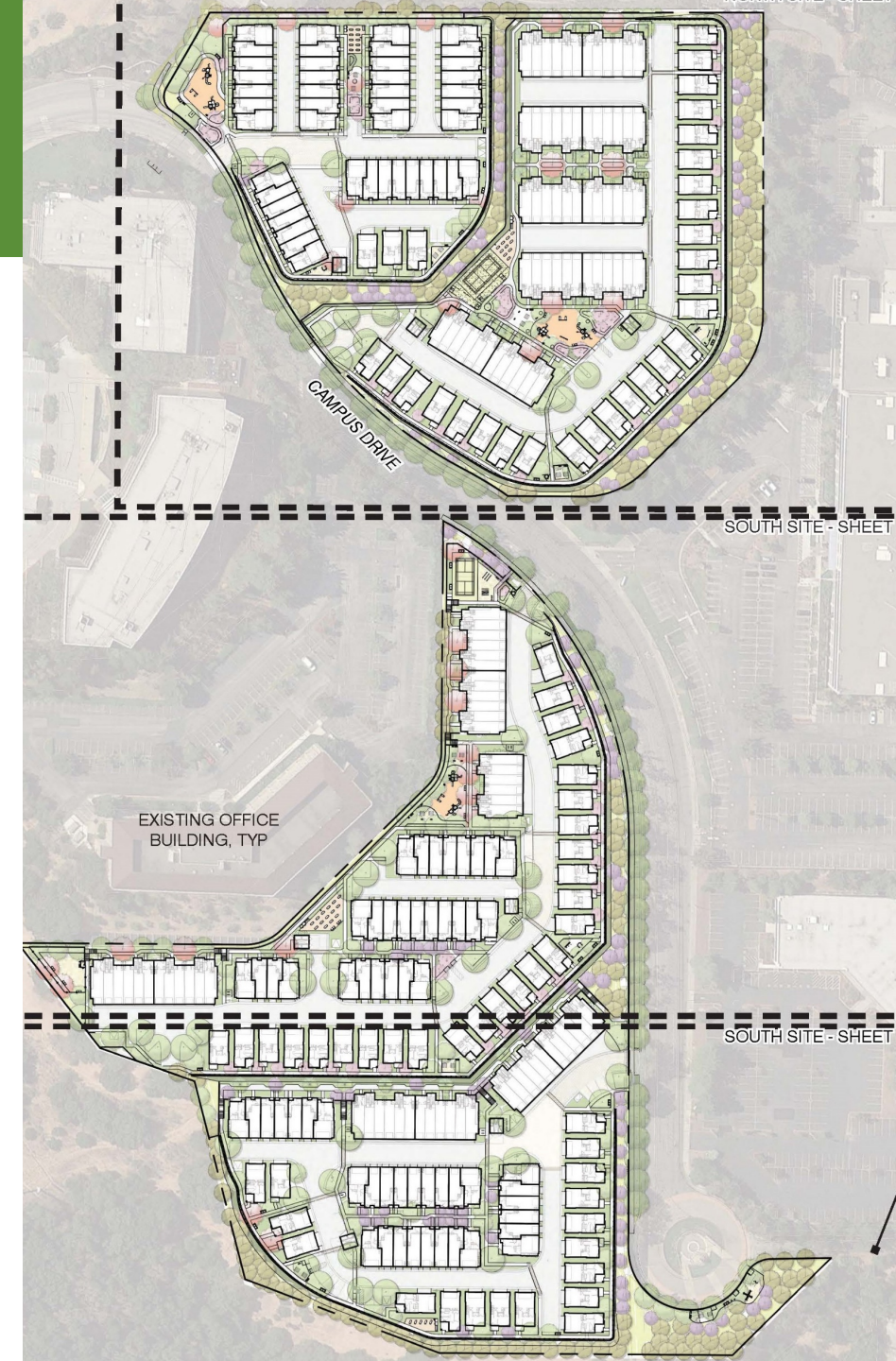
## **Peninsula Heights**

15.45 acres

290 housing units

GI on Road using Silva Cells

Will treat 51,000 ft<sup>2</sup> of PROW







# *Obstacles*

- **Developer Involved Early**
  - Discuss design layout during preliminary submittal
- **Conflicting Policies/Requirements**
  - Bulb-out turning radius for trucks
  - Bike lane, Pedestrian plan
  - Truck corridors/traffic flow
- **Physical Impedances**
  - Driveways/Loading zone
  - Underground utilities
  - Parking

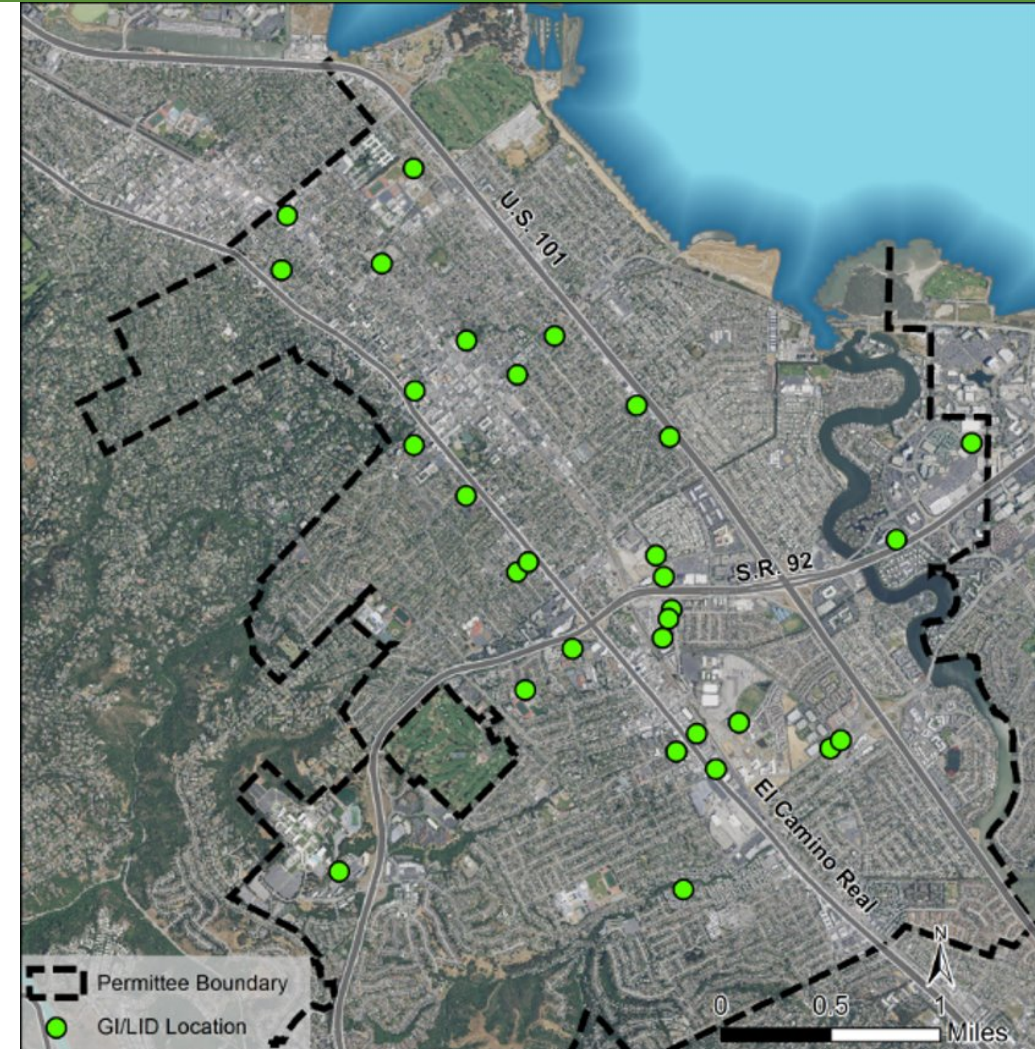


# *Outlook – Opportunities for GI in the immediate future*

## Public Projects vs. Private Development

Number of planning applications approved that included GI

Year	Public		Private	
	Design	Built	Design	Built
2016/17	0	1	0	0
2017/18	2	0	0	1
2018/19	1	2	0	0
2019/20	0	1	1	1
2020/21	0	0	3	0



Locations of existing GI (both private and PROW)



# *Questions?*

Sven Edlund  
sedlund@cityofsanmateo.org  
(650) 522-7296