



City of Marco Island

MEMORANDUM

Date: June 25, 2025
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report –June 2025

The City's public works department has 13 dedicated employees that administer, repair, and maintain the city's public infrastructure including traffic signals, streetlights, roads, sidewalks, swales, street signs, stop signs, median landscaping and irrigation, city street trees, storm sewer drainage, and bridges.

The following summarizes the department's operations over the month of June:

Public Works Capital Projects Overview:

N. Collier Blvd./N. Barfield Dr. intersection

- Traffic control and underground water and sewer construction is scheduled to start mid-July.
- MOT Phase I has been reviewed and approved
- Construction Schedule: July 2025 – July 2026

Canal Aeration Pilot

- Aerators will be installed July.
- Following the installation of the aerators, a ten-week sampling and testing period will be conducted, covering parameters such as dissolved oxygen (DO), temperature, conductivity, oxidation-reduction potential (ORP), depth, and airflow.
- Construction and Pilot Study Schedule: July 2025 – Sept. 2025

Traffic Signal Control Replacements

- Design: May 2025 – Nov 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

Pedestrian Safety Improvements

- Design: May 2025 – Oct 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

Tidal Flushing/Canal Interconnects

- Bids rejected 2024
- Awaiting additional grant funding. The city's grant writer is assisting.
- Re-bid and construction TBD

Sand Hill St. Shared Path

- Design completed
- Bidding: July 2025 – Aug 2025
- Construction: Sep. 2025 – April 2026

Annual Street Resurfacing (Paving)

- Construction: Jul 2025 – Sep 2025

Caxambas Ct. Bridge Replacement

- Bridge development report completed
- City/FDOT water and sewer design agreement execution in progress
- 60% plans: Nov 2025
- 90% plans: May 2026; construction funding agreement between city and FDOT must be executed by May 2026.
- 100% plans: Oct 2026
- Bidding: Dec 2026 – Feb 2027
- Construction: Mar 2027 – Mar 2028

S. Barfield Dr. Flood Remediation

- Design: May 2025 – Dec 2025
- Bidding: Jan 2026 – Feb 2026
- Construction: Mar 2026 – Jan 2027

Exfiltration Swales (S. Collier Blvd - Huron to end of Collier Ct.)

- Contract awarded
- Construction: Jul 2025 – Dec 2025

Roadway Restriping

- Contract awarded
- Construction: Jul 2025 – Sep 2025

Additional Street Lights

- Coordinating with LCEC for additional lights on Bald Eagle Drive.
- Solicitation: Jul 2025 – Aug 2025
- Construction: Sep 2025 – Dec 2025

Goldenrod Bridge Rehabilitation

- Contract awarded
- Construction: Jul 2025 – Sep 2025

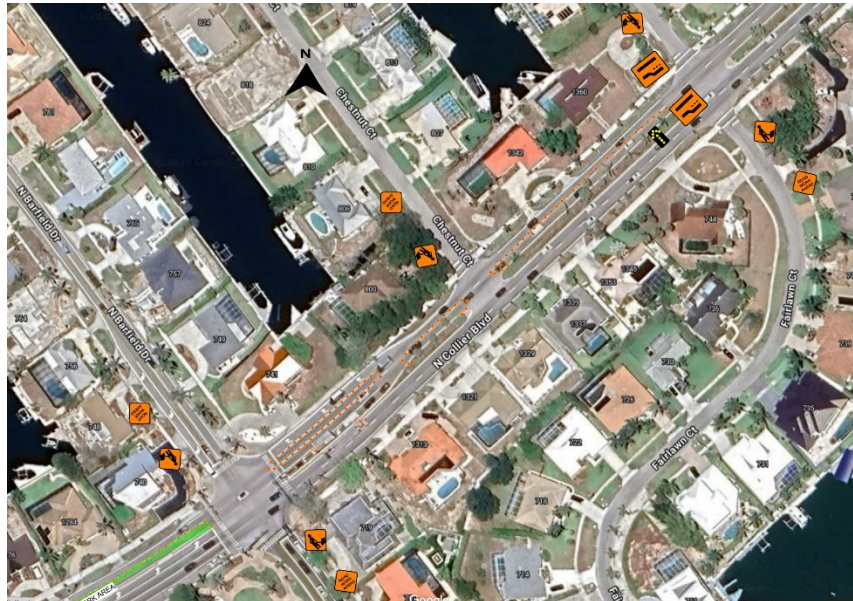
San Marco Drainage Improvements Project:

The San Marco Drainage project reached 100% completion. All contract work has been finalized in time and within budget. Closeout documentation is in progress. No outstanding construction activities remain.



N. Collier Blvd/N. Barfield Dr. Intersection Improvements

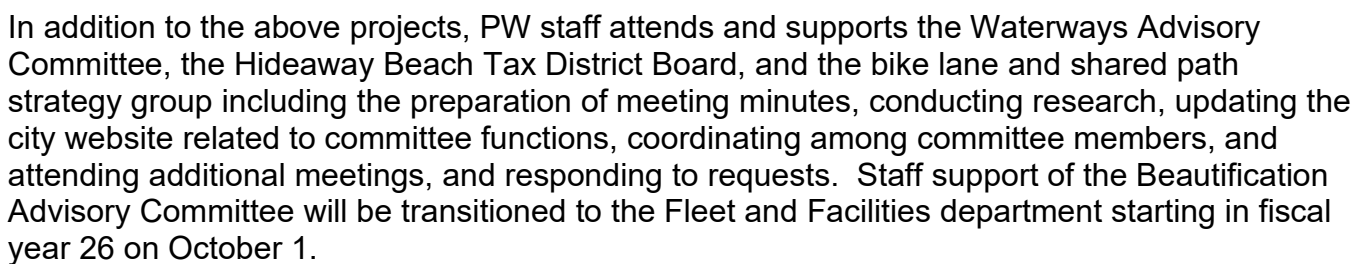
Construction is slated to begin in July. The first phase of construction will consist of replacing the underground water and sewer mains. One southbound traffic lane will be closed during this phase of construction.



Collier Blvd. Irrigation

The city's contractor is disconnecting all roadside (from curb to right of way line) sprinklers from the city's irrigation distribution system. These areas will need to be irrigated by each adjacent property owner if they desire to irrigate as is the case everywhere else on Marco Island. The city's irrigation will be limited to the city's landscaped medians.

Construction is slated to begin in mid-July. The paving will be stripped from the bridge. The bridge decks will be sealed and a membrane will be installed before the bridge is repaved. Construction of the bridge deck rehabilitation is to take two weeks. One lane will be closed during this time. Traffic will be controlled with a temporary traffic signal.



Water Quality Action Items

The following table lists the water quality action items being considered or performed by the city. The items appearing in gray text are not recommended, not feasible, and not implemented.

WQ Action Item	Cost	Status
dredging	\$30M (\$6M/yr x 5yrs)	coordinated permitting feasibility with FDEP. City Council reviewed the C-HAWQ public-private partnership proposal for dredging at the May 5, 2025 special called meeting. The City hired an independent engineer to review the proposal as directed by council.
inlet side slot filling	\$300/inlet	ongoing: 7 filled in month of June (156 total to date)
Exfiltration swales	\$12M	There are 120 miles of swales on Marco Island. \$1.5M in grant funding has been approved with 50% city matching funds. New exfiltration swales were constructed as part of the N. Barfield Shared Path project. The City awarded a contract to construct exfiltration swales on S. Collier Blvd. from Huron Ct. to the end of Collier Ct. Construction is slated to begin in July. More exfiltration swale project designs are on the way in FY25. The right of way construction standards manual was revised to require that exfiltration swales be constructed as part of the right of way permitting process. Thus far over 20 residential right of way permits include the construction of exfiltration swales.
inlet screens	\$600 ea	ongoing: 222 installed to date. Four were installed with the recently completed Barfield drainage and San Marco drainage projects. More will be installed as part of the N. Collier Blvd./N. Barfield Dr. intersection improvements project.
rain barrells/gardens	borne by homeowner	add to education campaign for homeowner implementation
seawall denitrification beds	borne by homeowner	not recommended - media can migrate into canals (unintended consequence)
reuse disposal alternatives	\$5M+	not feasible - FDEP will not permit the discarding of reuse water into deep injection well. Defeats the purpose of re-using treated water.
reuse irrigation inspections	included in operating budget	ongoing: city-owned irrigation inspected and repaired by city landscape contractor. Condo HOA's and hotels inspect and repair their systems
reuse educational program	included in operating budget	W&S dept prepared and distributed educational material. Follow up with HOA's annually. W&S has also assigned an employee to continue the public education campaign.
golf course irrigation	borne by golf courses	W&S dept coordinated with golf courses regarding irrigation rates. Golf courses effectively manage their irrigation
golf course interconnecting culverts	borne by golf courses	golf course water management systems detain stormwater and irrigation runoff onsite. Discharge to offsite is through outfall weirs. Interconnecting culverts are internal to golf course SWM systems.
Hydrodynamic study for dead-end canal circulation	\$50k	completed in Dec 2023 and presented to council in Jan 2024. The design of the interconnects was based on this study.
Dead-end canal interconnects	\$6M	state legislative appropriation approvals obtained. The first interconnect project has been designed, and bids opened on 8/5/24. The City is seeking additional state funding in FY25 and 26 so that this project can be constructed.
Street sweeper	\$380k	street sweeping program underway
fertilizer education campaign	low	city growth management environmental staff coordinating
fertilizer enforcement	low	ongoing - city code enforcement

fertilizer ordinance revision	low	not recommended - unenforceable
stormwater utility	property owner assessments	requires stormwater system inventory, master plan update, and rate study by consultant. Staff has not received direction from city council to proceed with this although this topic was recently proposed for discussions at WAC meetings.
Alternate water quality plan (4e)	\$50k	Approved by FDEP in Sept 2023. City is proceeding with projects in the plan as indicated in this table.
WQ testing	\$86k/yr	Ongoing. Quarterly testing of PTOX algae added in FY25.
WQ monitoring evaluation	\$10k/yr	evaluation being conducted as part of the MS4 permit. PW staff submitted the NPDES Annual Report for the Phase II MS4 permit for year 2 on 2/28/24. FDEP approved the annual report in August 2024. FDEP is conducting an MS4 audit on July 9.

Permitting Functions

Public works staff also reviews development and right-of-way permit applications and conducts inspections of the active right-of-way, SDP, and Seawall permits. The reviews and inspections are summarized below.

Reviews

Permit Type	qty
ROW permits (residential)	31
ROW permits (commercial)	0
SDP reviews	3
SEAW Seawall Work	8

Inspections

Type	qty
Residential	102
Commercial	0

Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with new street sweeper (299 lane miles swept between 5/19/2025 and 6/23/2025).
- Inspected crosswalks.
- Cleaned 515 Storm drains between 5/16/2025 to 6/7/2025 (all City storm drain filters have been cleaned island wide).
- Painted stop bars and crosswalks.
- Repaired storm pipe on Windmill Ave. (temporary storm pipe repair).
- Trimmed trees off flat bridge on Colier Blvd.
- Removed roadkill on Caxambas Dr.
- Removed concrete panel under N. Barfield Bridge and Windmill (removed and filled with 57 stone, panel needs to be replaced at a later date).
- Installed crosswalk signs on Bayport Ave.
- Poured concrete bases for flashing crosswalks at Whitehart Ave.
- Repaired broken bollard at San Marco and Sand Hill due to vehicle accident.
- Repaired street name sign at Jamaica and Four Winds.
- Repaired street sign at Whitehart and Sunflower Ct.
- Repaired edge of roadway at Barfield and Gold Coast.

- Repaired edge of roadway at Butterfield Ct.
- Completed right of way inspections in absence of Right of Way Inspector.
- Collaborated with Marco PD in waterway debris removal.
- Serviced hurricane generators (hurricane preparation).
- Installed '*Bike lane ends*' sign at 1275 Winterberry Dr.
- Reshaped ditch and replaced with riprap due to roadway washout on Travida Ter.
- Replaced wood pole with metal sign pole at Lily Ct.
- Repaired brick pavers on Bald Eagle and Collier Intersection.
- Removed all City banners for hurricane season.
- Serviced John Deere Loader (oil, filter, and lube).
- Received and filled emergency fuel and gas containers for Hurricane preparations.
- Changed spray heads and spray valve on City water truck.
- Repaired storm pipe (three temporary repairs on storm pipe) on Collier Blvd.
- Removed graffiti on Herb Savage Bridge (4 City personnel for one day removal).
- Removed trees on Dan River Ct. for aerator system operation.
- Repaired handrail on N. Barfield Bridge.
- Installed two 'No Mooring' signs on N. Barfield Bridge.
- Leveled signs on Seagrape Ave.
- Inspected swale complaint on Mariana Ct. (no issues found).
- Inspected and temporarily repaired traffic signal at Winterberry and Collier Blvd. (awaiting Temple contractor so further assess and possibly repair issues).
- Repaired roadway on Tarpon Ct.
- Inspected shared pathway complaint on San Marco Rd. (complaint regarding broken shared pathway panels).
- Inspected swale complaint on Apple Ct. (no issues found).
- Assisted Affordable Landscaping with irrigation valve adjustments.
- Changed oil in PW 15 Street Sweeper (service and preparation for hurricane usage).
- Assisted DEP with irrigation inspections along Collier Blvd.
- Inspected stormwater complaint on Dogwood Ct. (no issues found).
- Repaired outfall pipe at seawall on Ruppert Ct.
- Graded swale on Caxambas Ct.
- Repaired bike lane on San Marco Rd.
- Inspected sinkhole complaint on Amber Dr. (temporary concrete repair to storm pipe).
- Replaced wood sign pole with metal pole on Fairlawn Ct.
- Cleaned broken glass on Barfield and Yellowbird.
- Removed restrictions from storm pipe on Winterberry Dr.
- Repaired stormwater pipe on Jamaica / Kirkwood (temporary storm pipe repair).
- Inspected swale complaint at 1717 N. Bahama (found no issues).
- Inspected swale complaint at 1877 Calusa Ct. (no issues found).
- Inspected swale complaint at 1808 Maywood Ct. (no issues found).

Rupert Ct. Storm Pipe Repair



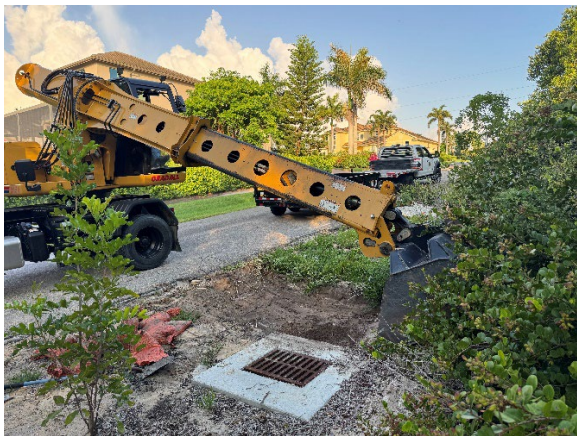
Bald Eagle Light Pole Removal for Water Main Break



Caxambas Ct. Swale Grading



Swale Stabilization along Travida Ter.



Waterway Debris Removal (Collaboration with Marco PD)



Winterberry Dr. Outfall Debris Removal

