



City of Marco Island

MEMORANDUM

Date: November 25, 2025
To: City Council
Through: Casey Lucius, Ph.D., Interim City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – November 2025

The City's public works department has 12 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 November:

Public Works Capital Projects Overview:

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

- Installation of the new PVC water and reclaimed mains continues along the southbound and northbound lanes of Collier Boulevard.
- The contractor is excavating to install the new traffic signal mast arm concrete foundations.
- Traffic patterns will be adjusted as necessary throughout the project to accommodate the work and traffic.
- Work is progressing on schedule and on budget. The project is scheduled to be completed in September 2026.

Canal Aeration Pilot

- Testing will resume in May 2026 with the reopening of the next testing cycle.
- 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.

Traffic Signal Control Replacements

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

Pedestrian Safety Improvements

- The first pedestrian safety project consists of two new crosswalks:
 1. *S. Heathwood Dr. at Andalusia Ter.*
 2. *N. Barfield Dr. between Wavecrest Ct. and Piedmont Ct.*
- This project is currently being publicly bid. Bids will be opened on December 3, and contract award is scheduled for City Council approval in January 2026.
- Construction: Feb 2026 – Aug 2026

Tidal Flushing/Canal Interconnects

- Bids rejected 2024
- Additional grant funding has been approved. Additional funding is still needed
- Re-bid and construction TBD

Sand Hill St. Shared Path

- Contract awarded.
- Construction will begin in January 2026.

Annual Street Resurfacing (Paving)

- 2025 Project completed
- Roads paved:
 1. S. Heathwood Dr
 2. Winterberry Dr. (Collier Blvd. to W. Winterberry Bridge)
 3. Century Dr.
 4. Wavecrest Ct.
 5. Piedmont Ct.
 6. Windmill Ave.
 7. Balsam Ct.
 8. Tarpon Ct.
 9. Pepperwood Ct.
 10. Goldcoast Ct.

Paving Repairs

- This project will correct some of the pavement dips/depressions and manhole bumps throughout the island.
- Bidding: Bid opened on November 12 and is currently under evaluation.
- Contract Award: January 2026.

Caxambas Ct. Bridge Replacement

- 60% plans: Nov 2025
- 90% plans: May 2026; construction funding agreement between city and FDOT must be executed by May 2026.
- 100% plans: Sep 2026
- Bidding: Nov 2026 – Jan 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.)

- Construction: Oct 2025 – Feb 2026

Roadway Restriping

- Construction: Sep 2025 – Nov 2025

Additional Street Lights

- Coordinating with LCEC for additional lights on Bald Eagle Drive.

Bald Eagle Dr. Bike Lanes

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

Swallow/Huron/Panama Exfiltration Swales

- Design: Oct 2025 – Apr 2026
- Bidding: May 2026 – June 2026
- Construction: July 2026 – Jan 2027 (pending funding)

Winterberry Exfiltration Swales

- Design: Oct 2025 – Apr 2026
- Bidding: May 2026 – June 2026
- Construction: July 2026 – Jan 2027 (pending funding)

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

Construction continues at the intersection with the installation of new water and reclaimed water mains. N. Barfield Dr. remains closed at the intersection, except for the northbound lane from the southbound Collier Blvd. turn. Excavation for the new traffic signal mast arm columns has commenced. The water main installation crossing under Collier Blvd. to Chestnut Ct. was completed during the night of November 21. The trenches for the underground mains are being backfilled with flowable cement fill. The project remains on-schedule and on-

budget, and will enhance safety, traffic operations, and water and reclaimed water mains reliability once complete. Traffic patterns will be adjusted as necessary throughout the project to accommodate the work and traffic. The project is scheduled to be completed in September, 2026.



The project is progressing on schedule along South Collier Boulevard. The contractor continues excavation, grading, and installation of the exfiltration system components. Work will advance section by section over the coming months, and completion remains anticipated within the six-month timeframe.



Roadway restriping work has been completed. New thermoplastic striping has been applied in areas where the old striping was worn and not visible. Pavement striping on Collier Blvd. between San Marco Rd. and Tigertail Ct. was repainted including all turn arrows, stop bars, pavement edges and lane skips. The map at the right shows the areas that were re-striped.



This project will mitigate some of the pavement settlement issues causing bumps at manholes and dips over the sanitary sewer that resulted from insufficient compaction during the septic tank replacement project from 2005 to 2012. This project consists of locally milling, repaving, and compacting pavement around affected manholes, as well as filling roadway depressions to improve overall ride quality and safety. While this work will not resolve all settlement-related issues, it will mitigate several of the most significant problem areas until those roads can be repaved. This project was publicly bid, and is being presented to city council for contract award at the 12/8/25 regular council meeting.

Advisory Committee Support

In addition to the above projects, PW staff attends and supports the Waterways Advisory Committee and the Hideaway Beach Tax District Board including the preparation of meeting minutes, conducting research, updating the city website related to committee functions, coordinating among committee members, and attending additional meetings, and responding to requests. Staff support of the Beautification Advisory Committee transitioned to the Fleet and Facilities department on October 1.

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. The engineer provided questions for C-HAWQ to answer. |
| inlet side slot filling | \$300/inlet | ongoing: 4 filled in month of October (171 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 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 barrels/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) | 30 |
| ROW permits (commercial) | 12 |
| SDP reviews | 3 |
| SEAW Seawall Work | 29 |

Inspections

| Type | qty |
|-------------|-----|
| Residential | 99 |
| Commercial | 0 |

Infrastructure Maintenance Field Crew Activities

- Swept zero lane miles between (10/20/2025 and 11/20/2025) due to sweeper repairs needed.
- Inspected crosswalks.
- Sealed up 4 side slot inlets on storm structures.
- Completed painting of all city shared pathway 12mph speed limit signs.
- Inspected bridge lights and navigation walkway lights.
- Placed additional rock along roadway at Fairlawn Ct.
- Located stormwater pipe for direction drill construction projects.
- Adjusted swale on Gulfport Ct.
- Replaced truncated domes on Gold Coast Ct.

- Inspected irrigation with Juniper irrigation crew.
- Met with directional drillers on Bald Eagle Dr.
- Watered all new plantings at new Winterberry Ball Park.
- Installed temporary generator for planned power outage at W. Elkcarn traffic signal.
- Distributed notices for right of way maintenance modifications on Collier Blvd.
- Worked with JRL Construction to assist with start of operations pertaining to exfiltration swale installations.
- Sent city street sweeper to Peterbilt store for vehicle repairs.
- Picked up truncated domes at White Cap in Naples.
- Picked up numerous roadkill island wide.
- Met with contractor on Marlin Ct. pertaining to stormwater repair.
- Repaired numerous banner arms along Collier Blvd. (preparation for holiday banners).
- Filled sinkhole by seawall on N. Barfield Bridge.
- Cleaned Dunford Alleyway (trash and palm fronds removed from alleyway).
- Completed right of way inspections in absence of right of way inspector.
- Picked up pallet of concrete from Naples for upcoming repair projects.
- Removed doors to SWTP chlorine storage room.
- Repaired storm pipe on Treasure Ct.
- Repaired edge of roadway on Peru Ct.
- Repaired in operational yellow traffic light bulb on Heathwood and San Marco intersection.
- Repaired potholes on Windward Dr.
- Installed "No Parking" signs at new C&D building at NWTP.
- Repaired edge of roadway at Butterfield Ct.
- Repaired brick pavers on Bald eagle Dr. / Collier Blvd.
- Repaired brick pavers at E. Elkcarn and Collier Blvd.
- Placed rock at edge of roadway along Silver Spray Wy.
- Met with directional drillers at W. Elkcarn and Collier.
- Picked up trash along parking area near Jolley Bridge.
- Repaired damaged coax connection at traffic camera for W. Elkcarn and Collier traffic signals.
- Removed glass from roadway near Beach Club at S. Collier Blvd.
- Inspected light power outlets along Collier Blvd. in preparation for Holiday Lighting.
- Repaired storm structure on Bald Eagle Dr.

W. Elkcarn and Collier Blvd. Traffic Camera Repair



Century Dr. Storm Pipe Liner Repair



Jim Vensel Alleyway Pothole Repair



Silver Spray Wy. Edge of Pavement Repair



Bald Eagle Dr. Storm Box Repair



Parking Sign Installation at C&D new Building



Bald Eagle Dr. Brick Paver Repair

