



City of Marco Island

MEMORANDUM

Date: August 29, 2025
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – August 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 August:

Public Works Construction Manager Retires

After 21 years of service to the City of Marco Island, Mike Daniels retired on August 15. City staff published the position opening and has since received 16 applicants. Three applicants were selected for interviews. Two of the interviewed candidates are the most qualified for the position. The city made an offer to one of the candidates but was unable to come to terms with the applicant on salary for the position. The city will be offering the position to the second candidate selected.

Public Works Capital Projects Overview:

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

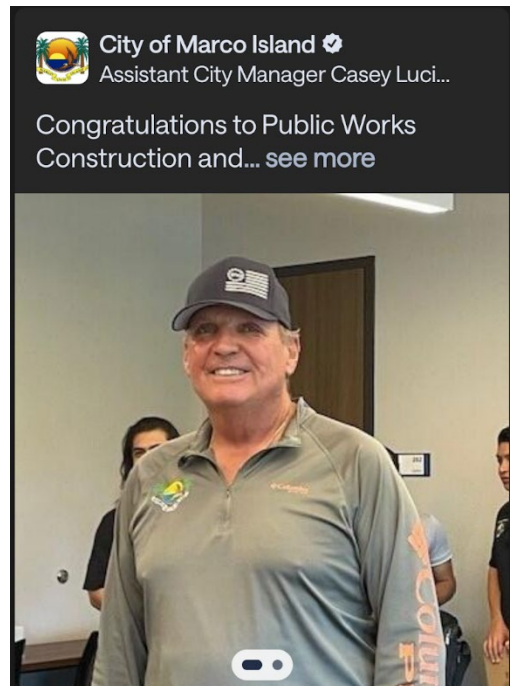
- Traffic control and underground water and sewer construction is scheduled to start early September.
- MOT Phase I has been reviewed and approved
- Construction Schedule: Sept 2025 – Sept 2026

Canal Aeration Pilot

- Pilot study will commence following installation and approval of electrical components.
- 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: May 2025 – Nov 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026



Pedestrian Safety Improvements

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

Tidal Flushing/Canal Interconnects

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

Sand Hill St. Shared Path

- Bid opened August 13.
- Pending completion of review before proceeding with award recommendation and council approval.
- Construction: Oct. 2025 – May 2026

Annual Street Resurfacing (Paving)

- Construction: Aug 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: 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.)

- Contract awarded
- Construction: Oct 2025 – Feb 2026

Roadway Restriping

- Contract awarded
- Construction: Sep 2025 – Nov 2025

Additional Street Lights

- Coordinating with LCEC for additional lights on Bald Eagle Drive.
- Solicitation: Oct 2025 – Nov 2025
- Construction: Dec 2025 – Jan 2026

Bald Eagle Dr. Bike Lanes

- Design: Aug 2025 – Dec 2025
- Bidding: Jan 2025 – Feb 2025

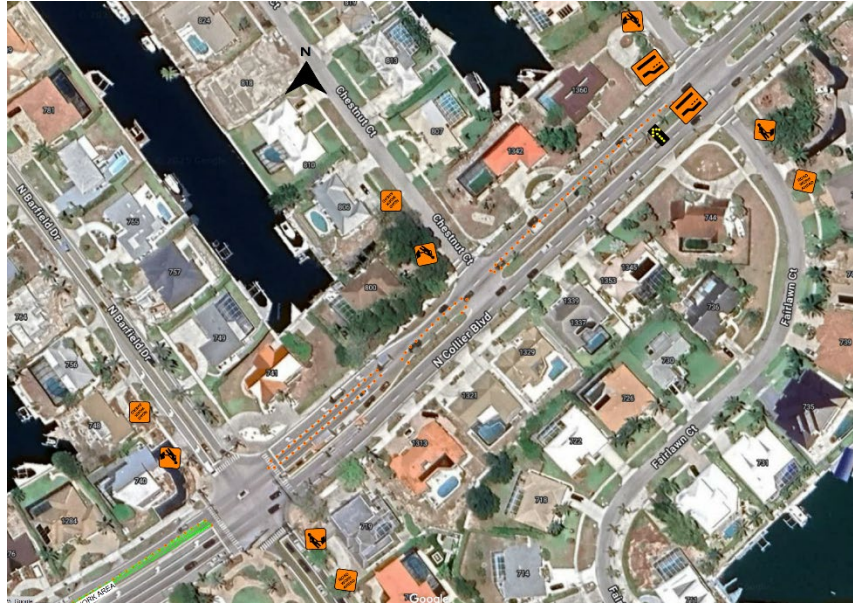
- Construction: Mar 2026 – Dec 2026

Swallow/Huron/Panama Exfiltration Swales

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

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

Construction is slated to begin in September. 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. Exfiltration Swales

The project area spans approximately 0.6 miles along South Collier Blvd, beginning at Huron Street and extending north to Swallow Avenue and Collier Court. The project will improve stormwater quality treatment by installing exfiltration systems within the existing roadside swales. The work includes excavation, grading, installation of perforated pipe, filter fabric, drainage rock, sodding, and site restoration. Construction will commence in September and is expected to be completed within six (6) months.



2025 Annual Roadway Resurfacing

The 2025 Annual Resurfacing Project is underway. Century Dr. and Winterberry Dr. (from Collier Boulevard to the base of the W. Winterberry Bridge) paving is now complete. The contractor is currently paving S. Heathwood Drive (from San Marco Road south to the Cul-De-Sac). The work consists of milling, surface preparation, and paving, with traffic control, per project specifications.



Roadway Restriping

The Road Restriping project will commence in September. The work includes thermoplastic pavement markings, such as crosswalks, arrows, skip lines, and stop bars, at intersections along Bald Eagle Dr., Collier Blvd, San Marco Rd., Winterberry Dr., and other identified segments, as shown in the map.

Major restriping will take place during nighttime hours, while smaller segments will be striped during regular business hours.

2025 City of Marco Island – Road Restriping



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 will be transitioned to the Fleet and Facilities department starting in fiscal year 26 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 August (160 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 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) | 26 |
| ROW permits (commercial) | 7 |
| SDP reviews | 2 |
| SEAW Seawall Work | 18 |

Inspections

| Type | qty |
|-------------|-----|
| Residential | 101 |
| Commercial | 0 |

Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with new street sweeper 280 lane miles swept between 7/14/2025 and 8/8/2025).
- Inspected crosswalks.
- Painted stop bars and crosswalks.
- Sealed up 4 side slot inlets on storm structures.
- Painted bullnose curbs along Collier Blvd.
- Built two flashing crosswalk signals for Whiteheart.
- Repaired 'No Parking' sign for Seagrape.
- Repaired sign pole on Collier/Collier Ct.
- Repaired two storm pipes on South Seas Ct.
- Repaired storm pipe on S. Heathwood Dr.
- Repaired retention outlet grate at Mackle Park.
- Changed out red traffic signal light on Collier & Elkcarn.
- Inspected damaged storm pipes with contractor to assess replacement and repair costs.
- Removed broken marker #6 from Collier Creek waterway and replaced with floating temporary buoy.
- Completed chainsaw safety class with entire field crew.
- Removed roadkill on Kendall Dr. (coyote).
- Reset and repaired traffic signal issue on Kendall Dr. (Southern Signal repaired issues).
- Repaired roadway depression on Collier Blvd.
- Repaired roadway on Jim Vensel Way.
- Repaired edge of roadway on Collier Ct.
- Repaired roadway on pepperwood Ct.
- Registered 4 personnel for traffic light maintenance training.
- Sent city Gradall to Ft. Myers for repairs (leaking cylinder repairs).
- Repaired potholes along Herb Savage Way.
- Replaced storm grate on Clyburn Ave.
- Repaired numerous potholes in all city alleyways.
- Inspected and repaired traffic signal issue on Bald Eagle and Elkcarn.
- Leveled and repaired street signs island wide.
- Replaced truncated domes on Waikiki.
- Cleaned storm drain at 1433 Butterfield.
- Removed fallen tree from roadway on Bayside.
- Inspected water in swale issue on Channel Ct. (no issues found).
- Filled sinkhole and repaired pavers on Herb Savage bridge platform walkway.

Roadway Paving Project August 2025



Mackle Park Retention Pond Drainage Structure Repair



Collier Blvd. Roadway Repairs



Collier Creek Damaged Marker #6 Removal From Waterway



Stormbox Repair on Greenbrier



Storm Pipe Repair On Soth Seas Ct.

