



City of Marco Island

MEMORANDUM

Date: August 25, 2023
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – August 2023

The City's public works department currently has 13 full time employee (FTE) positions as follows: (1) director, (1) Infrastructure & construction manager, (1) stormwater engineer [vacant], (1) administrative/project coordinator, (1) supervisor, (1) streets & drainage coordinator, (1) right of way coordinator, (4) maintenance workers, (1) street sweeper operator, and (1) water truck operator.

The department is currently operating with 12 full-time employees since the stormwater engineer position is currently vacant.

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

2023 Annual Street Resurfacing

- Resurfacing is complete.
- The following 14 streets were resurfaced:

<i>Caxambas Ct.</i>	<i>Sand Hill St.</i>	<i>Jamaica Ct.</i>	<i>Bradford Ct.</i>	<i>Plantation Ct.</i>
<i>Hernando Dr.</i>	<i>Diplomat Ct.</i>	<i>Somerset Ct.</i>	<i>Tigertail Ct.</i>	<i>N. Barfield Dr. (Old Marco)</i>
<i>Greenbrier St.</i>	<i>Buccaneer Ct.</i>	<i>Castaways Ct.</i>	<i>Nautilus Ct.</i>	



Lamplighter Dr.



Castaways Ct.

2023 Annual Street Resurfacing (cont.)



N. Bald Eagle Dr. (Old Marco)



Buccaneer Ct.

Proposed Ordinance to Regulate Service Provider Installations within City Rights of Way

- Summitt Broadband is nearing completion of their island-wide fiber optic infrastructure installations.
- There are several vertical cabinets that Summit installed in the swales that the City has asked Summit to relocate to property corners.
- Summit's contractors have caused damage to the city's irrigation (sprinkler), sanitary sewer, storm sewer, and potable water infrastructure. The City is awaiting reimbursement for the costs incurred relating to these damages.
- Summit will soon complete their infrastructure installations, and the City does not have many options to compel Summit to relocate the cabinets or to reimburse the City for incurred costs.
- Other municipalities have required restoration bonds from communications service providers as part of the permit and regulation process for allowing installations in their rights of way.
- Three other communications providers are seeking to permit and install infrastructure within the city's rights of way.
- The city needs an ordinance requiring service providers to provide a restoration bond and to enforce compliance with City regulations and requirements for these infrastructure installations.
- Staff has directed the City attorney to prepare a draft ordinance for council consideration so that the City's interests can be protected.
- Staff will present a draft of the ordinance to City council at a future council meeting.

Advisory Committee Support

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

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	\$25M (\$5M/yr x 5yrs)	PW coordinating feasibility with FDEP
inlet side slot filling	\$300/inlet	ongoing: 14 filled in month of August (134 total to date)
Exfiltration swales	\$12M	120 miles of swales in Marco Island. Seeking \$1.5M in grant funding.
inlet filters	\$600 ea	ongoing: 218 installed to date
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
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	in progress - to be complete by Oct, 2023
Dead-end canal interconnects	\$6M	State legislative appropriation approvals obtained. Awaiting completion of hydrodynamic study to commence design.
Street sweeper	\$380k	sweeper delivered - street sweeping program underway
fertilizer education campaign	low	city 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
Alternate water quality plan (4e)	\$50k	submitted to FDEP on 6/14/23. Awaiting FDEP comments
WQ testing	\$35k/yr	ongoing monthly sampling and testing
WQ monitoring evaluation	\$10k/yr	evaluation being conducted as part of MS4 permit

Permitting Functions

Public works staff reviewed development and right of way permit applications and conducted inspections of active right of way permits as indicated below.

Reviews

Permit Type	qty
ROW permits (residential)	23
ROW permits (commercial)	0
SDP stormwater reviews	0

Inspections

Type	qty
Residential	101
commercial	1

Infrastructure Maintenance Field Crew Activities (August 2023)

- Swept City roadways with new street sweeper (216 lane miles swept from 7/24/23 to 8/18/23).
- Inspected crosswalks.
- Filled-in side slots on drainage inlets.
- Painted traffic light mast arms at Elkcam Cir. & Bald Eagle Dr.
- Filled-in small depression in roadway on Tallwood St.
- Repaired pothole on Collier Blvd. & Century Dr.
- Repaired broken sidewalk at Hartley Ave. & Bald Eagle Dr.
- Repaired curb at 287 N. Collier Blvd.
- Fabricated generator cords for emergency generators.
- Repaired storm pipe at 593 N. Barfield Dr.
- Installed "No Wake" signs at Herb Savage bridge waterway.
- Repaired pothole on San Marco Rd. near fire station 50.
- Repaired sign at Goldenrod Ave. & Hartley Ave.
- Repaired storm structure at Yellowbird Ave. & Bali Ct.
- Replaced crosswalk operation button at San Marco Rd. & Heathwood Dr.
- Installed safety lights on new PW work truck (PW-02).
- Replaced wood sign pole at Bayport Ave. & Bermuda Ave.
- Repaired pothole at 1720 Winterberry Dr.
- Grinded asphalt on W. Winterberry Bridge deck.
- Repaired outfall pipe at 429 Waterleaf Ct.
- Video-taped storm outfall pipe at 856 Inlet Dr.
- Installed pipe and mitered ends under shared pathway at 503 S. Barfield Dr.
- Collected trash on Bald Eagle Dr.
- Repaired outfall structure at 342 Henderson Ct.
- Removed floating dock piling from waterway along Lighthouse Ct.
- Repaired edge of roadway along on Gayer Way.
- Serviced John Deere Loader (oil change & lube).
- Installed "No Dumping" markers on storm inlets along Swallow Ave. & Collier Blvd. (300 markers installed).
- Repaired sign on 6th Ave.



Installation of drainage pipe under shared pathway at 503 S. Barfield Dr.