



Town of Lake Park, Florida

Tree Board Meeting Minutes

Tuesday, January 10, 2023 at 6:00 PM

Town Hall Commission Chamber, 535 Park Avenue, Lake Park, FL 33403

Brady Drew	—	Chair
Pamela Frazier	—	Vice-Chair
Shana Phelan	—	Board Member
Gillian Kennedy Wright	—	Board Member

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision of the Tree Board, with respect to any matter considered at this meeting, such interested person will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Persons with disabilities requiring accommodations in order to participate in the meeting should contact the Town Clerk's office by calling 881-3311 at least 48 hours in advance to request accommodations.

CALL TO ORDER/ROLL CALL

6:00 P.M.

PRESENT

Brady Drew

Shana Phelan

Gillian Kennedy Wright

ABSENT

Pamela Fraizer

PLEDGE OF ALLEGIANCE

Chair Drew

PRESENTATIONS:

None

CONSENT AGENDA:

Motion made to approve the Consent Agenda by Phelan, Seconded by Kennedy Wright.

Voting Yea: Drew

1. December 13, 2022 Tree Board Meeting Minutes.

NEW BUSINESS:

2. Progress Update on the 100% Design Specifications and Implementation Timeline for the 2nd Street Green Infrastructure (Roadside Bioswale) Project

Public Works Director Roberto Travieso introduced the team working on this project. Mr. Raul Mercado representing Water Resource Management Associates (WRMA); Michael Mercado representing WRMA; Nicole Plunkit representing Cotleur & Hearing. Mr. Raul Mercado and Michael Mercado presented to the Board (see Exhibit "A").

Chair Drew thanked everyone for the presentation. He asked questions regarding the shade trees quoted in the Mobility Plan on 2nd Street. He asked if shade trees would be installed anywhere else along 2nd Street. Public Works Director Travieso explained that there are no plans outside of the scope of the plan currently underway. He explained that they were currently looking for funding opportunities to expand the project along 2nd Street. Mr. Raul Mercado further explained why this area was chosen and the funding associated with this project.

Board Member Phelan asked questions regarding the project and notifying the residents impacted. Public Works Director Travieso explained that his staff was undergoing training on how to properly maintain the infrastructure. He stated that a mailer was sent to all residents in the Town and not just those that would be impacted. She asked questions regarding plantings that are placed above the storm chambers. Mr. Michael Mercado explained the locations of the storm chambers was not ideal for trees plantings.

PUBLIC COMMENT:

This time is provided for addressing items that do not appear on the Agenda. Please complete a comment card and provide it to the Agency Clerk so speakers may be announced. Please remember comments are limited to a TOTAL of three minutes.

None

COMMITTEE MEMBER COMMENTS:

Phelan had no comments.

Wright had no comments.

Drew had no comments.

STAFF MEMBER COMMENTS:

None

ADJOURNMENT:

6:48 P.M.

FUTURE MEETING DATE: The next scheduled Tree Board Meeting will be conducted on February 14, 2023.

Chair Brady Drew

Town Clerk, Vivian Mendez, MMC

Town Seal

Approved on this _____ of _____, 2023

COMMITTEE MEMBER COMMENTS:

Phelan had no comments.

Wright had no comments.

Drew had no comments.

STAFF MEMBER COMMENTS:

None

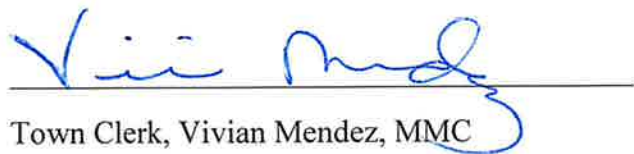
ADJOURNMENT:

6:48 P.M.

FUTURE MEETING DATE: The next scheduled Tree Board Meeting will be conducted on February 14, 2023.



Chair Brady Drew



Town Clerk, Vivian Mendez, MMC



Approved on this 11 of April, 2023

Final Design Progress Update on the 2nd Street Green Infrastructure Roadside Bioswale Project

Roberto Travieso
Director, Department of Public Works



Presentation Outline



1. Opening Comments
2. Project Background
3. Storm Water Master Plan (SWMP)
4. Why 2nd Street?
5. Design Approach
6. Implementation Timeline
7. Landscape Design & Renderings
8. Questions



Project Team



- **John D'Agostino** – Town Manager
- **Roberto Travieso** – Public Works Director
- **Raul Mercado** – Principal Engineer, WRMA
- **Michael Mercado** – Lead Design Engineer, WRMA
- **Don Hearing** -- Principal/Landscape Architect, Cotleur & Hearing
- **John Wille** – Capital Projects Manager



Project Background & Design Concept

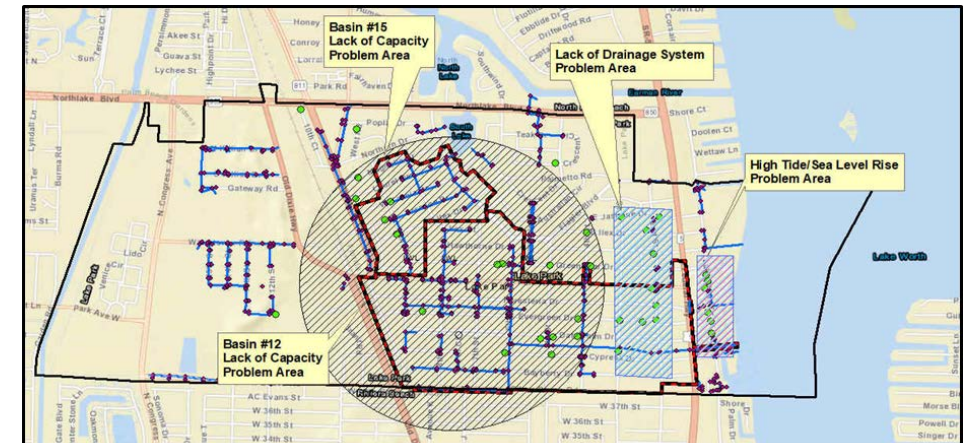
MICHAEL MERCADO, PE

Stormwater Management Needs Assessment

Water Quantity



- Study showed that of the 10.62 miles of storm sewers (Approx. 29%) needs to be immediately (1-5 years) rehabilitated (Repaired/Replaced) and the rest within 20 years.
- Identifies key major capacity surcharge flooding problems along Southern Outfall (446 acre watershed)
- Identifies many areas without stormsewers with nuisance flooding such as along 2nd Street
- Identifies long term climate change (Sea Level Rise) challenges along 0.8 miles of LVI waterfront

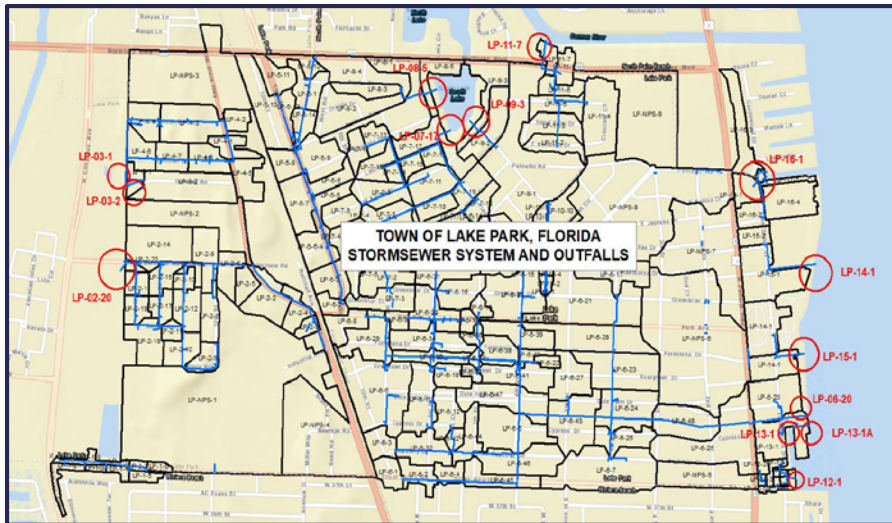


Stormwater Management Needs Assessment

Water Quality



2/3 of the ToLP area Discharges untreated runoff to the impaired Lake Worth Lagoon



FDEP/NPDES Permit requires the ToLP to monitor runoff discharges from 14 outfalls

Receiving Waterbody	Table 4 Pollutant Loading Reductions (Lbs/year) for 5% Roadside Bioswales BMPs					
	BOD ₅	TSS	TP	CU	ZN	N
LWL (Current BMPs)	22,418	98,253	883	53.7	261.5	10,630
LWL (Proposed Bioswales)	20,081	76,444	796	50.8	238.6	10,366
Reduction %	10.4	22.2	9.8	5.4	8.8	2.5

Bioswales along 5% of the ToLP ROW's will reduce sediment pollutant loadings to the LWL by as much as 22% (TSS)

Stormwater Master Plan (SWMP)

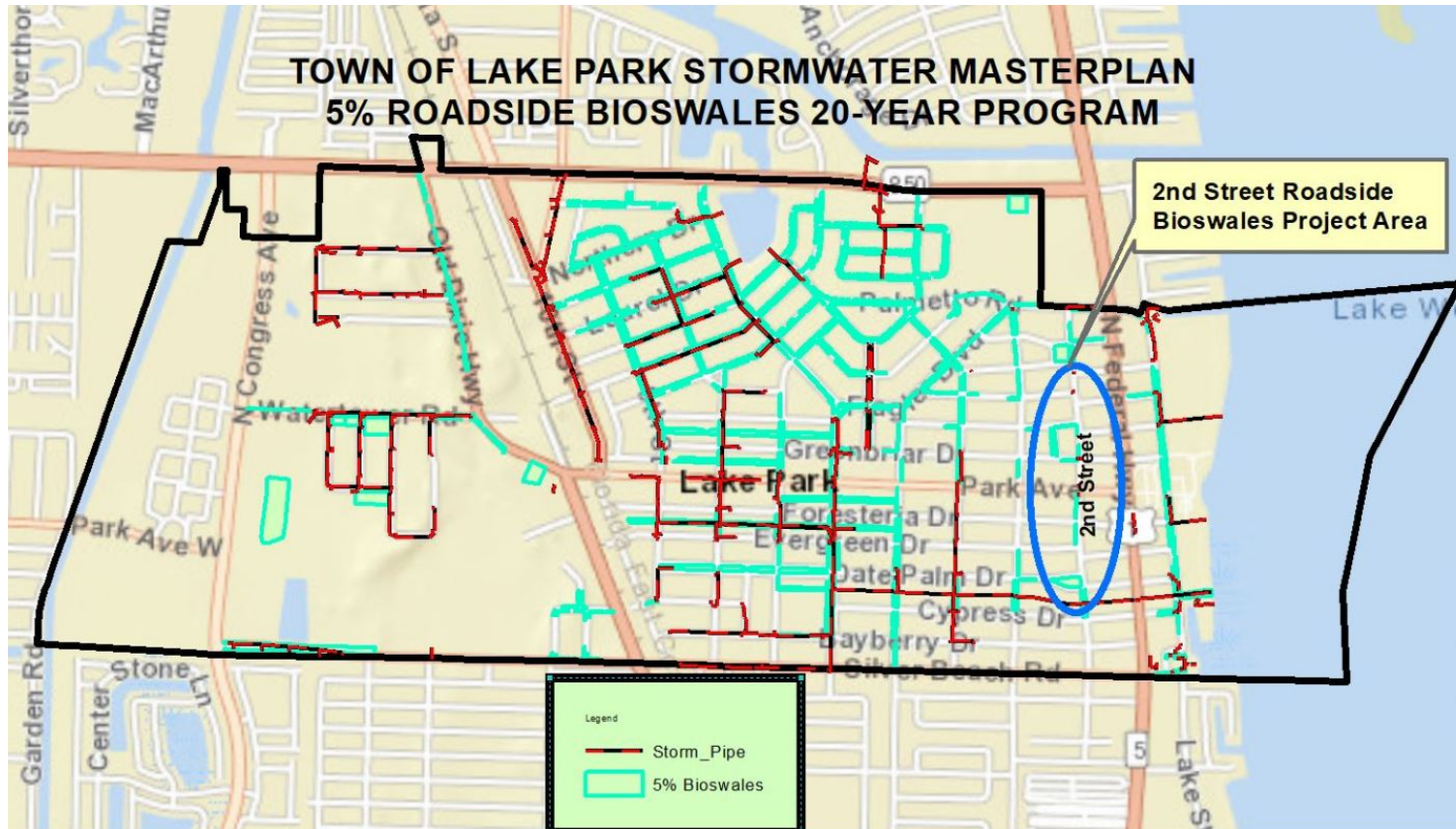


- Updated in 2019-2020
- Adopted by Town Commission in 2021
- Provided the incremental conversion of 5% roadside swales to green infrastructure (bioswales/biodetention areas)
- Recommends the use of Stormwater fees exclusively to cover O&M costs (no Capital Improvements)
- Recommends the use of federal grants for project Capital Improvements



Stormwater Master Plan Approach

Green Infrastructure For Climate Change



**5% ROADSIDE BIOSWALES
20-YEAR PROGRAM**

**FIRST PROJECT - BIOSWALES
ALONG 2ND STREET ROW**

**Higher Intensity Rainfall is Causing More Frequent
Nuisance Flooding Along 2nd Street Intersections**

Why 2ND Street ?



- Extra pavement was added to the **ROW** in the past without grading
- Additional impervious area runoff creates ponding and nuisance flooding at intersections
- Opportunity for design of a **GI-Based Bioswale** to address nuisance flooding and water quality **NPDES** requirements



FORESTERIA DRIVE

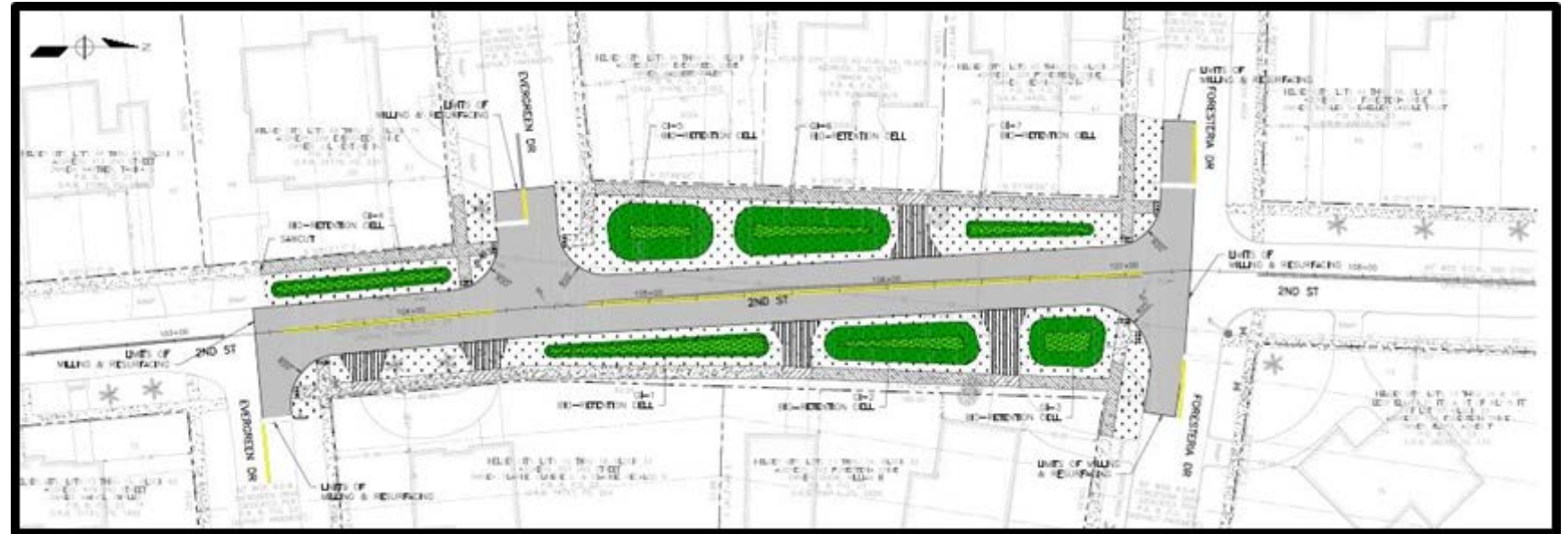


EVERGREEN DRIVE

Prototype Bioswale Design Solution Surface Component



- Surface (planted) bioswales captures first flush of runoff for infiltration and evapotranspiration

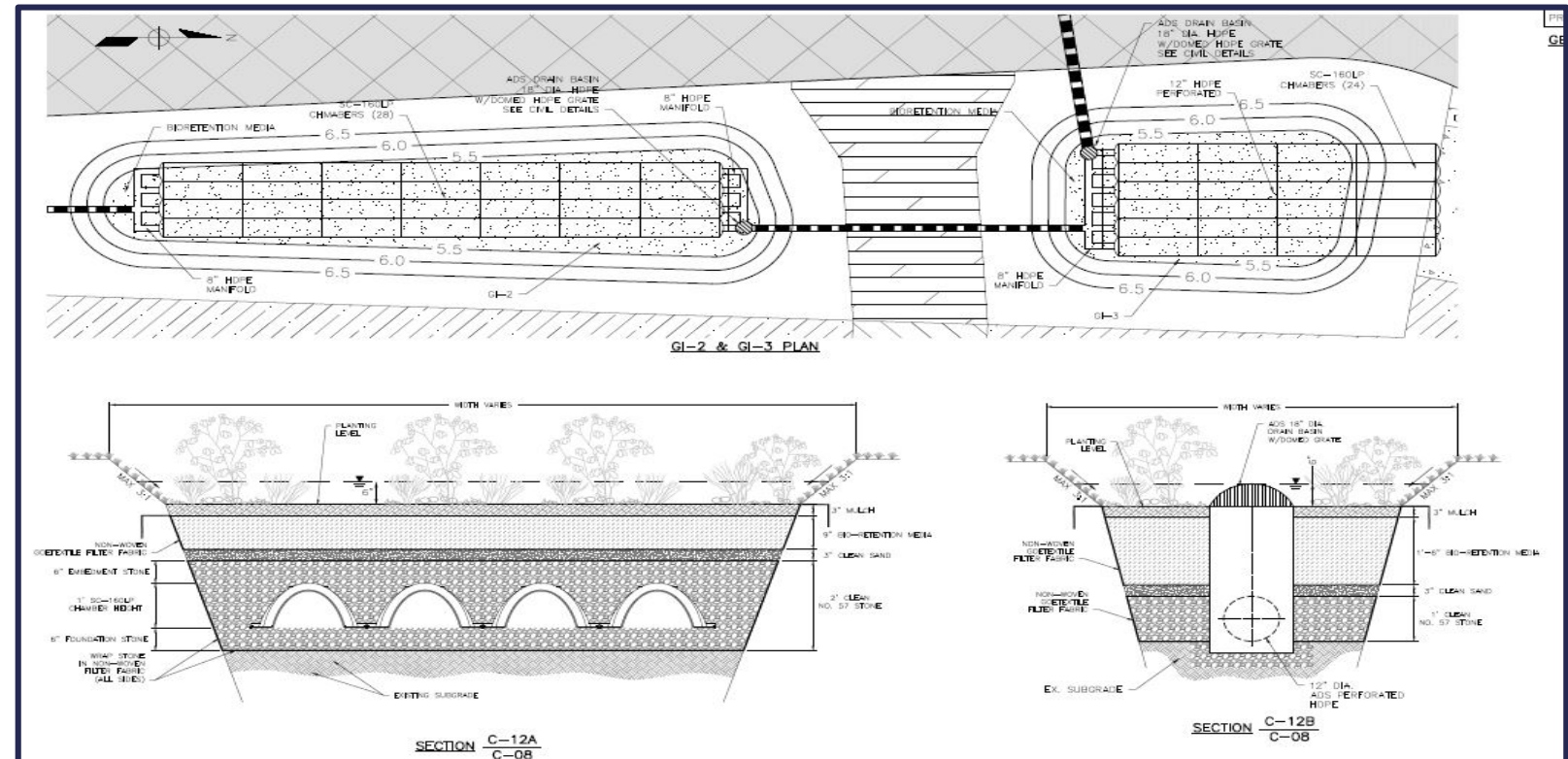


- ❑ Bioswales green-planted areas beautify the right-of-way
- ❑ Bioswales soils layers provide mulch for additional water quality treatment of runoff

Prototype Bioswale Design Solution Underground Component



- Underground Storage Filtration Chambers provide additional runoff volume treatment capacity



- ❑ Interconnected chambers for maximum utilization of underground space
- ❑ Chambers can be accessed for maintenance to clear debris



Project Landscape Design

NICOLE PLUNKETT, ASLA, PLA, AICP

Landscape Design Approach



- Observe street design standards published by FDOT

Clear Zone: The unobstructed, traversable area beyond the edge of the traveled way for the recovery of errant vehicles. Source: Florida Green Book

- Clear Zone Design Guideline from edge of traveled lane:
 - 6' < 400 Average Daily Traffic (ADT)
- Standards also applicable to landscape design



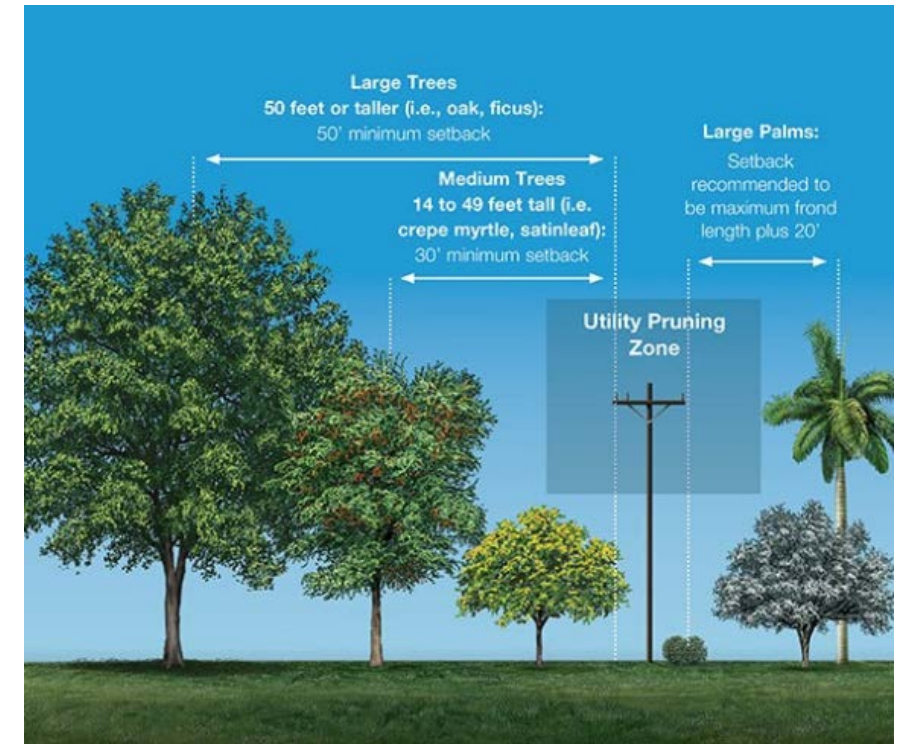
Landscape Design Approach



Observe applicable Regulations for utility operators in the Town:



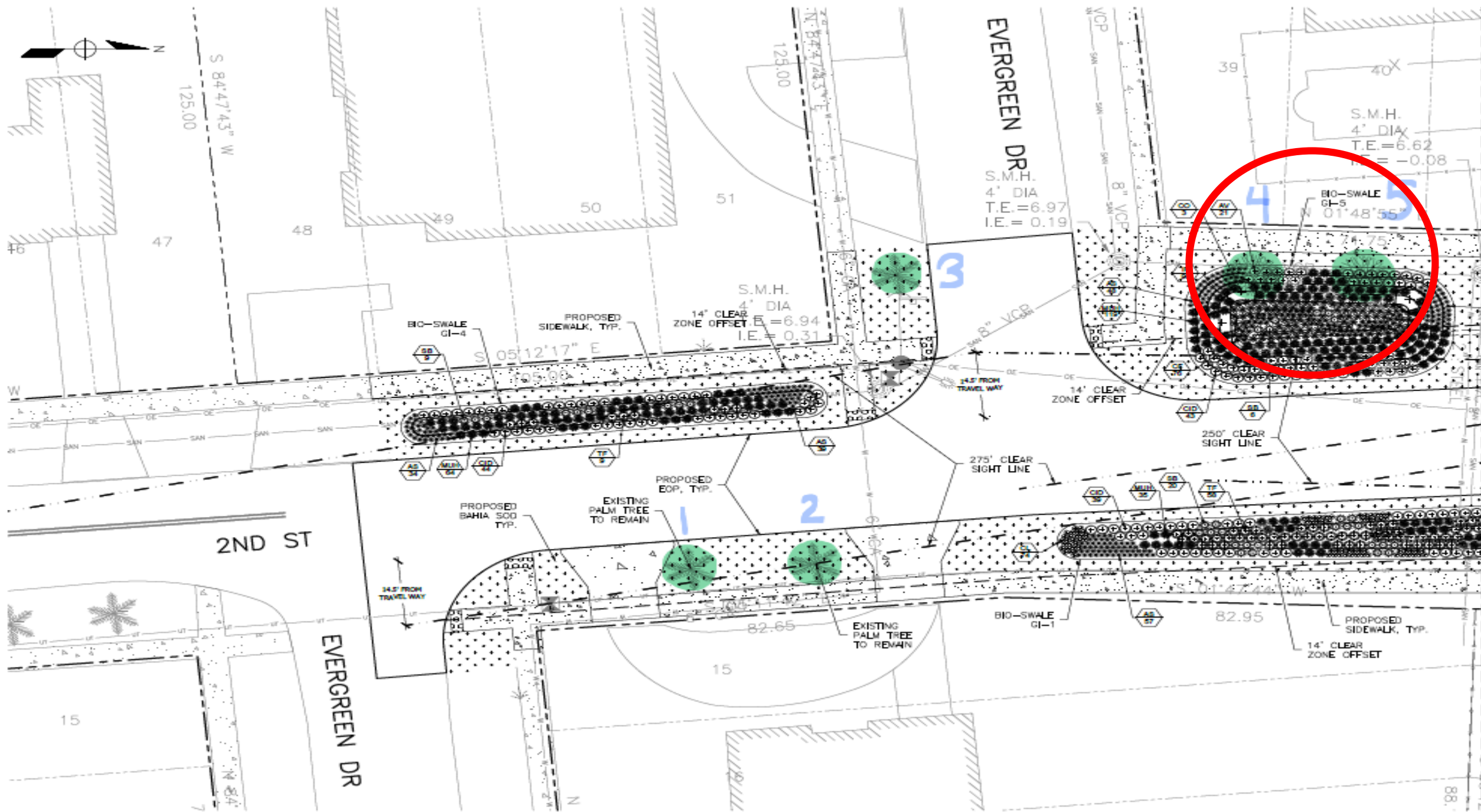
- **Small/Medium Trees & Palm Trees:** No closer than 10 feet to utility structure
- **Large Trees:** No closer than 15 feet to utility structure



Existing Canopy Tree/Palm Tree Conflicts



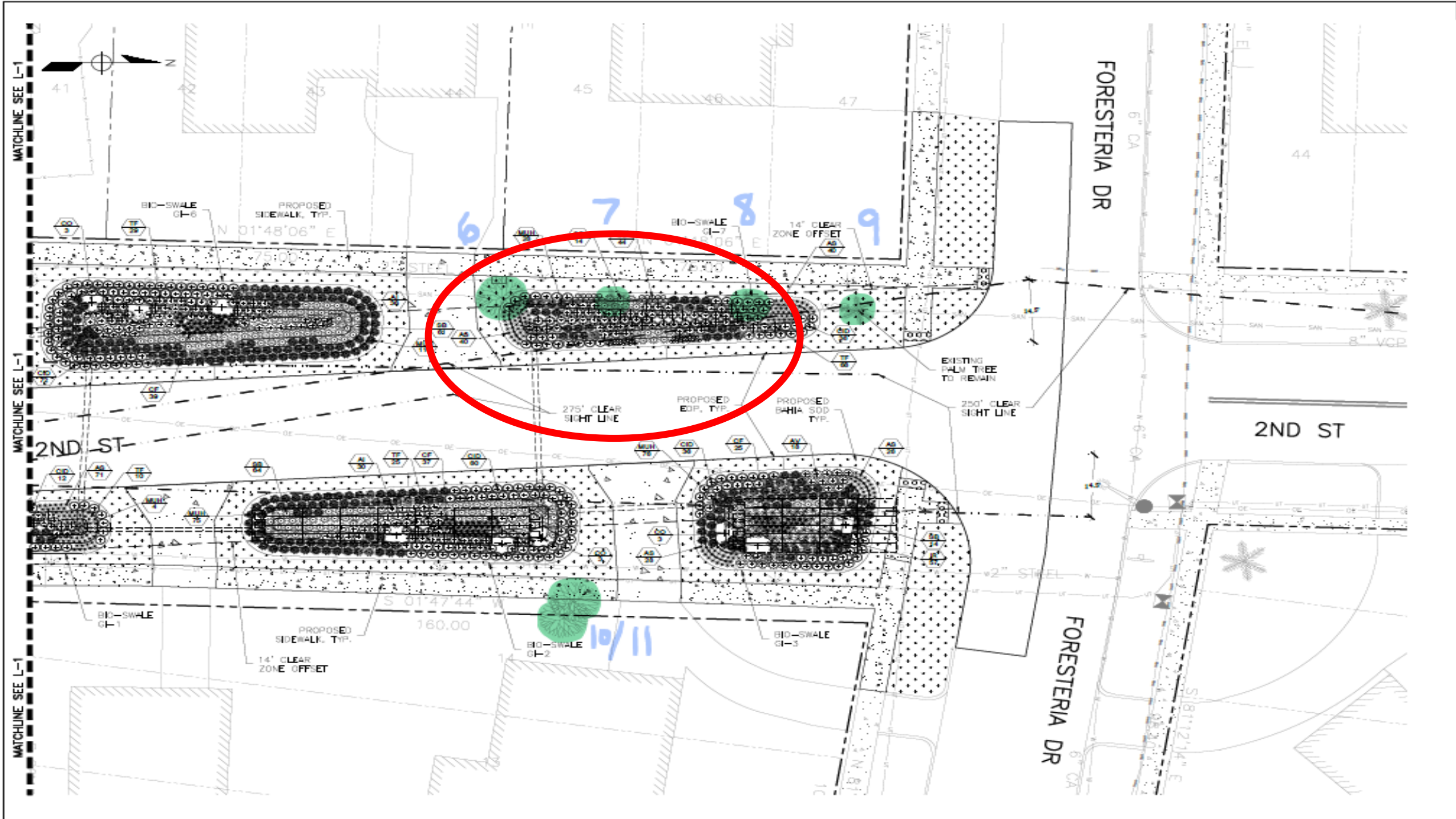
- Canopy Trees in project area: **5** | Palm Trees in project area: **6**
- All (**11**) trees/palm trees in project area are currently unpermitted
- Some trees/palm trees are within the FDOT-mandated Clear Zone
- Proposed project improvements and grading necessitates the removal/relocation of (5) canopy and palm trees (No.'s 4,5,6,7, and 8)
- Planned coordination with public property owners to relocate trees onto private property, where desired and possible, during project implementation
- New street trees may be included in Bioswale design for other locations, depending on compliance with Clear Zone, Seacoast Utilities', and FPL setback criteria



MATCHLINE SEE L-1

MATCHLINE SEE L-1

MATCHLINE SEE L-1





Project Landscape Renderings

NICOLE PLUNKETT, ASLA, PLA, AICP



CROSS SECTION - LOCATION 105+00.00

PLANT PALETTE |



BUTTONBUSH



DWARF COCOPLUM



WIREGRASS



SAND CORDGRASS



SWAMP MILKWEED



CANNA LILY



CHALKY BROOMSEDGE
BLUESTEM



BLUE FLAG IRIS



LEAVENWORTH'S TICKSEED



MUHLY GRASS



DWARF FAKAHATCHEE GRASS

BIOSWALE / RAIN GARDEN



BIOSWALE / RAIN GARDEN



BIOSWALE / RAIN GARDEN



BIOSWALE / RAIN GARDEN



Implementation Timeline & Next Steps

ROBERTO TRAVIESO

Project Implementation Timeline



- **Design & Bidding (Design partially funded by FDEP Coastal Partnership Initiative Grant)**
 - 100% Design Plans & Specifications: November 2022
 - Final Regulatory Permits: December 2022
 - Bidding Advertisement: February 2023
 - Contractor Selection: March – April 2023
 - Contract Negotiations: May – June 2023
- **Construction (Funded by Resilient Florida Grant)**
 - Mobilization/Start Up: July 2023
 - Completion/Close Out: July 2024



Questions