Town of Lake Park Tree Board

Agenda Request Form

Meeting Date:	**January 10, 2023**
Originating Department:	Public Works
Agenda Title:	**Progress Update on the 100% Design Specifications and Implementation Timeline for the 2nd Street Green Infrastructure (Roadside Bioswale) Project**

Approved by Town Manager: _____ **Date:** _____

Cost of Item:	N/A	**Funding Source:**	N/A
Account Number:	N/A	**Finance Signature:**	N/A
Advertised Date:	N/A	**Newspaper:**	N/A

Attachments:

1. Agenda Request Form (ARF)
2. PowerPoint Presentation on subject project design progress.
3. Location of Tree Conflicts in Project Area Project Design Plans
4. Project Profile

Please initial one:

	Yes, I have notified everyone
X	Not applicable in this case

Summary Explanation/Background:

Since 2019, extensive research and advanced hydrology and hydraulic modeling conducted during the development of the Town's Stormwater Master Plan (SWMP) confirmed that the Town's storm sewer network lacks capacity to convey rainfall runoff from mostly impervious dense urban areas for storm events of significance. Additionally, the study also identified localized flooding in at least 23 locations throughout the Town, including two areas of significance on 2nd Street.

In 2020, in collaboration with Town staff, our stormwater engineering consultants developed a practical, Green Infrastructure project to address localized flooding on 2nd Street by placing roadside bioswales at

the intersections of 2nd Street and Foresteria Drive (Figure 1) and 2nd Street and Evergreen Drive (Figure 2).

Figure 2

Figure 1

The rationale for the selection of this flooding mitigation strategy is that in addition to their stormwater conveyance benefits, bioswales improve the quality of the stormwater runoff before it infiltrates the soil or is discharged to tide. They are also widely considered a more visually appealing alternative, especially if decorative, native plants are chosen. Moreover, these green spaces can provide a habitat for some wildlife species, especially birds.

Over the last two years, Town staff and stormwater consultants have worked to secure grant funding for this important project, securing grant funding for both project design and construction.

Specifically, in August 2021, the Town entered into an agreement with the Florida Department of Environmental Protection, Coastal Partnership Initiative for planning (design) grant funding in the amount of **$30,000.00**.

The total planning and design cost for the 2nd Street roadside bioswales project is **$85,000.00**, which includes distributions from the following funding sources:

Also, in August 2021, the Town Commission approved Resolution 63-10-21, approving a Work Authorization for Water Resources Management Associates (WRMA) to develop 100% construction-ready plans for 2nd Street Roadside Bioswale Project (the Project). WRMA is one of the Town's stormwater engineering consultant and currently has an active, five (5) year continuing services agreement with the Town under approved Resolution No. 79-11-18.

Concurrently with the approval of the WRMA work authorization and to help offset the projected costs to construct the Project, Town staff applied for Florida Department of Environmental Protection (the Department), Resilient Florida Grant Program funding and was notified on February 1, 2022 that a grant award in the amount of **$553,784.54** (**with no match**) had been approved. This implementation-focused grant program is consistent with flood mitigation strategies included in the Town's SWMP.

Moreover, the Agreement associated with this award for construction funding is pending as of the date of this Agenda item.

Project Update to the Town Commission and the Tree Board

On October 5, 2022, Department and WRMA Staffs, along with landscape architect and WRMA sub-contractor Coutler & Hearing, presented a progress update to the Town Commission to highlight key project design elements, environmental and drainage efficiency benefits, planting specifications, and more **(Attachment 4)**.

Following the presentation, a member of the public expressed concerns about the potential removal of existing canopy and palm trees in the project area and this concern was also communicated verbally and via email by Tree Board Chair Brady Drew to Public Works Director Roberto Travieso.

This agenda item and accompanying presentation **(Attachment 2)**. to the Tree Board is intended to inform the Board regarding the project's basis for stormwater and roadway engineering design, landscape design, and the applicable regulations associated with the project. Additionally, the presentation will provide details regarding any existing canopy and palm trees within the project area **(Attachment 3)**. and their associated relocation plans, as applicable.

Finally, the presentation will revisit and highlight key project design elements, environmental and drainage efficiency benefits, planting specifications.

Recommended Motion: For discussion only.