



Agenda MEMORANDUM

Streets & Stormwater

To: Mayor and City Council
Via: Jay Boodheshwar, City Manager
From: Robert Middleton, Director
Date: October 12, 2022

Council Meeting Date: October 19, 2022

SUBJECT

Update on 3rd Avenue North pump station as part of the Beach Outfall project.

STAFF RECOMMENDATION

Staff recommends that City Council review the updates below and provide input and/or direction on the following:

1. Review of the plan revisions to the 3rd Avenue North pump station and related equipment.
2. Update on the schedule and construction process associated with the installation of the stormwater outfall pipes for the pump station on 3rd Ave. N.
3. History of alternative locations for the stormwater system pump stations.
4. Change the sequence of construction of the south section in favor of constructing the north section first.

GENERAL INFORMATION

Please find below details regarding the five (5) items outlined above, which staff seeks input/direction on.

1. **Review of the plan revisions to the 3rd Avenue North pump station and related equipment.**

On September 13, 2022, Staff held a public meeting to update residents on the progress of the revisions to the 3rd Avenue North pump station. Since that meeting additional revisions have been made to reduce the visual impacts. Revisions include the relocation of the control panel and platform to the south side of the right of way and a further reduction of the pump station footprint of the that remains centered in the right of way. The feel is now more a median strip within the right of way.

2. Update on the schedule and construction process associated with the installation of the stormwater outfall pipes for the pump station on 3rd Ave. N.

Attached is the revised schedule from the Contractor as of October 12, 2022. The new schedule will be coordinated around the barge delivery. It is anticipated that construction services will resume post Hurricane Ian early December due to Kelly Bros. Inc. utilizing the barge intended for the project for Hurricane Recovery initiatives. Construction and vegetation debris is scheduled to be removed off 3rd Ave. N. (alleyways) and Gulf Shore Blvd. N. surrounding the beach end in the month of October to be resurveyed and initiate proper mobilization of equipment by Contractor in November. The pipe is still scheduled to be delivered and staged at the City's Solid Waste Facility by October 21st. The contractor will mobilize and begin drilling the week of November 28th. The revised schedule will have the pipe installed before December 25th with restoration to follow and completed by January 2023. D.B.E. Management, LLC will keep the City informed of any changes in the schedule after the City Council Meeting.

3. History of alternative locations for the stormwater system pump stations.

On September 13, 2022, Staff held a public meeting to update the public on the progress of the revisions to the 3rd Avenue North pump station. This meeting included a review of the pump station location alternatives that were developed as part of the 2013 AECOM Feasibility Study that provided three (3) alternatives for the Beach Outfall Project. In 2016, these alternatives were evaluated and ranked by the City's Stormwater/Natural Resources staff and the City's consultant, Erickson Engineering. Evaluation criteria were developed and weighted scores were calculated by the importance of each criterion and sub criteria. Alternative 3 was the most feasible alternative with two (2) pump stations. The north pump station located at the Naples Beach Club and the south pump station at 3rd Avenue North.

Alternative 3 was selected as the most feasible alternative based on the following:

1. Of all the alternatives, Alternative 3 treats the most water within the South System and the 3-Lake System. **100%** of the water as a result of a 5-year 1 day rain event will be captured in this system and **77%** of the water from a 25-year 3 days rain fall event will be captured.
2. The Army Corp of Engineers permit approved the discharge location from the offshore outfall pipes in the Gulf because of the preferred hard bottom. In most cases, the preferred hard bottoms are located much farther offshore which increases which would increase this portion of the project. The Army Corp permits are extremely difficult and long-term items to obtain.
3. The pump station location at 6th Avenue North would require a complete redesign of the 90% design of the collection system to change the flow direction from the south to the north. The current design is to transfer the collected stormwater south to 3rd Avenue North. To place a pump station at 6th Avenue North, the collection system pipes including the pump station would be 2.5-feet deeper. Considering the size of the underground pump station vault and the large diameter pipes required the transfer the water to the north, the cost would be much higher.
4. All the permits for construction of the south section of the system are in hand. Switching to the north section of the system would require permits. The permitting

process is underway but applications specifically for the relocated north pump station have not been submitted. There is a considerable time delay to obtain new permits.

4. Delay construction of the south section in favor of constructing the north section first.

The sequencing of the project is made up of the north and south sections. City Council directed staff to begin with the south section first that includes the south pump station at 3rd Avenue North and the pipe system along Gulf Shore Boulevard North between 6th Avenue North and 2nd Avenue North. Recent questions from the public are to reverse the sequencing to proceed with the north section first. It is not recommended to change the project sequence for the following reasons:

1. All the permits for construction of the south section of the system are in place. Switching to the north section of the system would require permits to be finalized. The permitting process is underway but applications specifically for the relocated north pump station have not been submitted. There is a considerable time delay to obtain new permits.
2. The most serious water quality issues are located in the south section.
3. The majority of the beach outfall pipes are located within the south section.
4. The \$5.0 million Legislative Line Item Appropriation is for the south section. Future funding requests are scheduled for the north section during construction of the south section. Changing the sequence could jeopardize the current \$5.0 million.

PURCHASING REVIEW

The Interim Purchasing Manager has reviewed and approved for compliance with the City procurement procedures.

CITY ATTORNEY REVIEW

The City Attorney has reviewed and approved the attached resolutions and procurement contracts for legal form and sufficiency.

FINANCE DEPARTMENT REVIEW

The Finance Director has reviewed and approved the budget amendment resolution to provide sufficient funding for the project.

Attachments