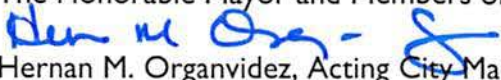




## CITY OF DORAL Office of the City Manager Letter to Council

LTC No.: 025-2022

To: The Honorable Mayor and Members of the City Council  
From:   
Hernan M. Organvitez, Acting City Manager  
Date: July 11, 2022  
Subject: **Stormwater Improvements along Section 22**

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The purpose of this Letter to Council (LTC) is to provide the Mayor and Councilmembers information on stormwater improvement projects the City has undertaken to mitigate the impact of storm events in Section 22, beginning in 2015 to the present. Section 22 is bordered by NW 58<sup>th</sup> Street on the north, NW 41<sup>st</sup> Street on the south, NW 77<sup>th</sup> Court on the east, and NW 87<sup>th</sup> Avenue on the west.

On March 12, 2014, the 2013 Stormwater Master Plan Update was adopted via Resolution No. 14-52. The Master Plan Update identified several stormwater drainage problem areas throughout the City and provided the 2013 5-Year Stormwater Capital Improvement Plan (CIP). The CIP provides a measure to fund different improvement projects within the Stormwater infrastructure and addresses sites that have been identified to be in need of improvements. Several improvements along Section 22 were included in the above mentioned 5-Year CIP.

In April 2016, the City completed the stormwater improvements along Sub Basin H-5, as identified in the 2013 Stormwater Master Plan Update. Sub Basin H-5 is located along the right-of-way of NW 52<sup>nd</sup> Street between NW 79<sup>th</sup> Avenue and NW 78<sup>th</sup> Avenue, NW 53<sup>rd</sup> Street between NW 79<sup>th</sup> Avenue and NW 78<sup>th</sup> Avenue, NW 54<sup>th</sup> Street between NW 79<sup>th</sup> Avenue and NW 77<sup>th</sup> Court, and along NW 55<sup>th</sup> Street between NW 79<sup>th</sup> Avenue and NW 77<sup>th</sup> Court.

Through this project, the City installed approximately 2,900 LF feet of exfiltration trench (better known as french drain), 10 new inlets, and 26 new manholes, at a total cost of \$658,563.

In August 2017, the City completed the stormwater improvements along Sub Basin H-8, as identified in the 2013 Stormwater Master Plan Update. Sub Basin H-8 is located along the right-of-way of NW 56<sup>th</sup> Street between NW 87<sup>th</sup> Avenue and NW 79<sup>th</sup> Avenue, NW 84<sup>th</sup> Avenue between NW 54<sup>th</sup> Street and NW 58<sup>th</sup> Street, and NW 82<sup>nd</sup> Avenue between NW 54<sup>th</sup> Street and NW 58<sup>th</sup> Street. Through this project, the City installed approximately 4,914 LF feet of exfiltration trench, 17 new inlets, and 26 new manholes, at a total cost of \$968,123.

In October 2018, the City completed the NW 54<sup>th</sup> Street Roadway Improvements between NW 87<sup>th</sup> Avenue and NW 79<sup>th</sup> Avenue, at a total cost of \$2,971,191, in which 615 LF of exfiltration trench was installed along with 26 new inlets and 7 new manholes.

In March 2022, the City completed the stormwater improvements along Sub Basin H-8 Phase II. Sub Basin H-8 Phase II is located along the right-of-way of NW 57<sup>th</sup> Street between NW 78<sup>th</sup> Avenue and NW 77<sup>th</sup> Court, NW 56<sup>th</sup> Street between NW 79<sup>th</sup> Avenue and NW 77<sup>th</sup> Court, NW 78<sup>th</sup> Avenue between NW 57<sup>th</sup> Street and NW 56<sup>th</sup> Street, and NW 77<sup>th</sup> Court between NW 56<sup>th</sup> Street and NW 52<sup>nd</sup> Street. Through this project, the City installed approximately 1,985 LF feet of exfiltration trench, 40 new inlets, and 33 new manholes, at a total cost of \$1,185,806. This project received State Funding from the Florida Department of Environmental Protection (FDEP) and was reimbursed \$461,708.00.

The City is currently advertising the NW 58<sup>th</sup> Street Outfall Improvement Project which is scheduled to be presented to the Mayor and City Councilmembers during the September 2022 Council Meeting. The City will award the construction contract to the lowest, most responsible, and responsive bidder. The construction for this project will commence shortly after the execution of the contract. The construction ground breaking is projected for November 2022. The outfall will be installed along NW 58<sup>th</sup> Street, east of NW 79<sup>th</sup> Avenue, and will service Sub Basin H-8 with the boundary conditions previously mentioned. The Engineer Cost Estimate for this project is approximately \$1,000,000.00. The City was awarded federal funding from the Department of Economic Opportunity for a 50/50 match grant totaling \$1,000,000.00.

Additional efforts to mitigate storm events are taken on a yearly basis. These efforts include:

- Street Sweeping Maintenance Program on a bi-weekly basis throughout the City of Doral Public Right-of-Way.
- Catch Basin Maintenance Program servicing the entire City Stormwater Infrastructure in a two-year time period.
- Flood Inspections after every major rain event to ensure that the stormwater infrastructure is free of debris. If the Stormwater Division finds that the system requires maintenance the vac-truck is scheduled to perform a service regardless of when the structure was previously serviced.

- Canal Inspections performed by City and County staff. Prior to any storm event, both City staff and Miami-Dade County staff perform canal culvert inspections to ensure that there are no obstructions within the system. Culverts direct water through the secondary canal systems and obstructions can be detrimental to the stormwater system.
- Coordination with the South Florida Water Management District (SFWMD) and Miami-Dade County. SFWMD operates and owns the primary canal system within South Florida. Miami-Dade County operates and owns the secondary canal systems throughout the County, including the canals within the City of Doral. Miami-Dade County stormwater staff provides weekly canal gauge information to the city staff for independent monitoring.
- The Public Works Department (PWD) also implements post storm event operations which include the coordination with an existing contractor to provide emergency vacuum truck services. Each Vacuum Truck (Vac-Truck) can hold approximately 2,000 gallons of water. After any major rain event, Vac-Trucks are deployed throughout the City in severely impacted areas to assist with flood mitigation. In addition, PWD staff deploys the Stormwater Division Water Pump to designated areas to mitigate flooding from low lying areas. This pumping operation has shown much success. At the August 2022 Council Meeting, the PWD will request authorization from the Mayor and the City Councilmembers to proceed with the purchase of a second pump. The second pump will allow the PWD to deploy both pumps simultaneously resulting in a much quicker and efficient operation while removing water from low lying areas.

If you have any questions on this matter, please do not hesitate to contact the City Manager's Office or Carlos Arroyo, Public Works Director.

c:     Rey Valdes, Deputy City Manager  
       Carlos Arroyo, Public Works Director