



CITY OF FORT LAUDERDALE

DRAFT
MEETING MINUTES
CITY OF FORT LAUDERDALE
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INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE
VIRTUAL MEETING
MONDAY, JANUARY 4, 2021 – 2:00 P.M. TO 5:00 P.M.

February 2020-January 2021

Attendance

Marilyn Mammano, Chair	P	5	0
Gerald Angeli (arr. 2:06)	P	5	0
Shane Grabski	P	4	1
Charlie Ladd	P	4	1
Michael Marshall (arr. 3:38)	P	4	1
Peter Partington	P	5	0
Jacquelyn Scott	P	5	0
Roosevelt Walters	P	5	0
Ralph Zeltman	P	5	0

As of this date, there are 9 appointed members to the Committee, which means 5 would constitute a quorum.

Staff

Aneisha Daniel, Deputy Director of Public Works
Dr. Nancy Gassman, Assistant Director of Public Works – Sustainability
Rick Johnson, Utilities Distribution and Collection Systems Manager
Talal Abi-Karam, Assistant Director of Public Works – Utilities
Victor Carosi, Assistant Director of Public Works -- Engineering
Omar Castellon, Chief Engineer
Pauline Ricketts, Senior Administrative Assistant
Igor Vassiliev, Project Manager II
Kymberly Holcombe, Business Operations Manager
Crysta Parkinson, Recording Secretary, ProtoType, Inc.

Communication to the City Commission

None.

1. Call to Order

i. Roll Call

Chair Mammano called the meeting to order at 2:00 p.m.

ii. Approval of Agenda

Motion made by Mr. Partington, seconded by Ms. Scott, to approve. In a voice vote, the **motion** passed unanimously.

iii. Approval of Previous Meeting Minutes, December 7, 2020

Mr. Partington noted the following correction:

- P. 12, paragraph 4: change ending of first sentence to "...how the Lohmeyer plant operated during Tropical Storm Eta"

Deputy Director of Public Works Aneisha Daniel also noted a correction on p.9 to Project Manager II Steve Hillberg's title.

Motion made by Mr. Partington, seconded by Ms. Scott, to approve as amended. In a voice vote, the **motion** passed unanimously.

Mr. Angeli arrived at 2:06 p.m.

2. General Discussion and Comments by Committee Members

Chair Mammano observed that due to the typical length of the Committee's meetings, they do not always discuss Items toward the end of the Agenda, although Staff is regularly present for this discussion. She suggested taking Item 6 out of order on the Agenda for this reason. Ms. Scott commented that this could be addressed in the future by moving General Discussion and Comments by Committee Members to a later position on the Agenda.

Motion made by Ms. Scott, seconded by Mr. Partington, to take Item 6 out of order and make it Item 2. In a voice vote, the **motion** passed unanimously.

Ms. Daniel advised that Agenda Items 4 and 5 should also be discussed at today's meeting, as Staff has brought together a great deal of information on these issues.

The following Item was taken out of order on the Agenda.

6. Information

i. Water & Sewer Bond Expenditure Report

Ms. Daniel noted that this report was presented in a format consistent with information already provided to the Committee. The document shows actual expenditures from the first tranche of the Water and Sewer Bond, which was for \$204 million, as of December 28, 2020. She reviewed a number of individual items broken down by budgeted and actual expenditures, encumbrances to date, and balances. There have been significant expenditures during the last two months of 2020, as the City's redundant line project is

moving along very quickly and a number of bills were received toward the end of the year.

Chair Mammano asked if a number of projects added after the original Consent Order was signed were included in the document's summary chart. These projects were not necessarily covered by the original bond allocation of \$204 million. Ms. Daniel stated that these projects were likely included, although more information would be required to clarify this. Chair Mammano recalled that the Committee had wished to see a running total of the number of projects completed and yet to be undertaken, in order to determine how much more money would be needed and the timing of any additional allocation.

Chair Mammano continued that the inflow and infiltration (I&I) line item shows a total budget of approximately \$31 million, of which only \$12 million has been spent thus far. Another \$2 million remains encumbered for this line item. Chief Engineer Omar Castellon explained that sections of the six basins experiencing I&I identified in the Consent Order have been completed; however, another \$7 million to \$8 million remains to complete work on the full basins. He estimated that there may be a number of invoices not yet reflected in the document, as a great deal of work has been accomplished over the last two months.

Ms. Daniel further clarified that invoices are sent by contractors and reviewed by Project Managers, which may necessitate significant back-and-forth communication before payments are approved and processed. Chair Mammano requested that the Committee see summary updates on this report to reflect all work completed by the end of 2020.

Mr. Partington commented that the Committee is tasked with reviewing the City's expenditure plan based on a specific "bottom line" figure. At the December 2020 meeting, representatives of consultant Hazen and Sawyer had provided a presentation on the City's high-risk infrastructure, which may further affect this bottom line and by extension individual water and sewer charges.

Paul Chettle, member of the public, asserted that the public has asked to see the total cost of the improvements funded by the Water and Sewer Bond since 2016. While a presentation was made to the Committee at their October 2020 meeting on the \$204 million tranche, additional projects are partially funded by this tranche as well as within the City's Capital Improvement Program (CIP). He explained that the public wished to see the total costs of these individual projects, as it is estimated that they may cost up to 48% more than originally estimated.

Mr. Chettle continued that the report provided by Hazen and Sawyer in July 2020 includes updated cost estimates for all projects in the Consent Order, which are significantly higher than the original estimates. Projects previously identified as top priorities, which accounted for approximately \$60 million of the \$204 million bond, have been removed from the list of bond projects, although they had been included in the

City's CIP for a number of years. Mr. Chettle concluded that this affects the entire dynamic of the bond.

Ms. Daniel confirmed that the total costs of Consent Order projects can be provided to the Committee, including both bond costs and enterprise funds allocated to these projects.

ii. Fire Hydrant Maintenance and Testing

Utilities Distribution and Collection Systems Manager Rick Johnson explained that the City began its written fire hydrant maintenance program in May 2017, when there were 6168 hydrants in its system. The City was divided into three sections, each with a dedicated crew to maintain roughly 2000 hydrants in each section each year.

In the first year of the program, the City inspected and performed preventative maintenance on approximately 35%, or 2000, of these hydrants over a seven-month period. In 2018, with full staff, they maintained 100% of City hydrants. Maintenance includes checking the pounds per square inch (PSI) at each hydrant as well as its average flow. Hydrants that do not meet specifications, such as those with a PSI below 50 or a flow of fewer than 500 gallons per minute (GPM), are reviewed to determine if the problem is local or systemic. Systemic issues could result in the addition of a CIP project to replace or upgrade a water main in the subject area.

In 2019, the City completed 99.1% of inspections and preventative maintenance on hydrants. Geographic information system (GIS) data was updated to more accurately reflect the number and location of hydrants in the system. In 2020, there were significant challenges, including the impact of the COVID-19 pandemic on staffing. This prevented the City from working at full capacity. The Consent Order also required maintenance of valves in the water system, which made it necessary to move resources from the hydrant program to the valve program. These challenges resulted in the completion of approximately 40% of hydrant maintenance.

By December 2020, the City received two additional vehicles to conduct valve maintenance, which meant staff resources could be returned to the hydrant program. The hydrant maintenance and testing program is expected to be back to full capacity in 2021. Another 700 hydrants were added to the system as a result of maintenance, which identified a number of hydrants not reflected by GIS data. Maintenance resulted in the capture of the following data:

- Brand of the hydrant
- Location of the hydrant
- Whether or not the hydrant is in working condition
- Number of turns required to open the hydrant
- Flow rate and GPM
- Static pressure
- Leaks

- Need for replacement or upgrades

Mr. Johnson clarified that flow testing for fire prevention is not the same as preventative maintenance (PM). When PM is conducted, only one hydrant is tested for flow rate and static pressure. A fire flow test, which is performed for developers or contractors, requires the flow of more than one hydrant on either side of the subject property. This includes opening hydrants and measuring the pressure at the property to ensure that it can be maintained above 20 PSI. Fire flow testing can indicate that water mains in the area may be undersized, or there may be other issues within the main. The fire hydrant testing and maintenance program is based upon National Fire Protection Association documents, American Water Works Association (AWWA) standards, and Florida Statute Chapter 633.

Mr. Zeltman emphasized the difference between static and dynamic pressure tests: static pressure requires 50 PSI, while dynamic pressure for a typical single-family residence requires 500 GPM with a residual pressure of at least 20 PSI. In addition, dynamic testing may reveal tuberculation, or corrosion resulting in iron oxide precipitation, that has accumulated in pipes and can restrict flow or make it more turbulent.

Mr. Johnson continued that the City now employs four crews for valve maintenance and three crews for hydrant maintenance. As most valves are located in roadways, this maintenance process requires more staff and takes longer to complete. Because each hydrant has its own isolation valve, the hydrant testing crews also test and maintain these valves.

Mr. Ladd noted that while the average flow for City hydrants is 1000 GPM, there were 10 hydrants with a GPM below 25, with static pressure greater than the minimum requirement of 50 PSI. Mr. Johnson explained that pressure varies according to the time of day and number of pumps operating at water plants. The City uses static pressure primarily as a guide to determine whether or not more thorough inspection of the area is necessary. A CIP is developed for areas that have poor flow so these water mains can be upgraded. If issues exist in areas not already determined to have low flow, they are addressed through CIP.

Mr. Zeltman recalled that the Reiss report had shown deficient fire hydrant flow tests in several areas of the City in 2015. He asked to see a map showing the location of deficient hydrants. Ms. Daniel advised that the information she has received from the Fire Department shows there are currently no deficient hydrants in the City according to AWWA standards. Mr. Johnson reiterated that since the testing and maintenance program began in 2017, the City has tested all hydrants at least twice and is about to begin a third round of testing. This program results in significant hydrant repair and replacement.

iii. Capacity Letter Spread Sheet

Ms. Daniel stated that this spreadsheet will be presented under Old Business.

iv. Date of Last Update of ERC Numbers

The date of the last equivalent residential connection (ERC) update, which is May 1, 2019, is also included in the spreadsheet to be presented under Old Business. This serves as a guideline for the calculation of sanitary sewer connection fees. Impact fee allocation will also be discussed under New Business.

v. Matrix Used by Hazen & Sawyer to Determine Risk

Patricia Carney, representing consultant Hazen and Sawyer, recalled that at the December 2020 meeting, the Committee members had asked how risk was determined for many of the City's pipes. She explained that risk is calculated for force mains and other underground infrastructure by examining the likelihood of failure for a particular pipe, as well as the potential consequence of that failure. Likelihood of failure (LOF) is determined by the following factors:

- Age of the asset
- Material from which the asset is constructed
- Whether or not the asset has experienced recent breaks
- Peak operating pressure
- Regularity of maintenance
- External or internal physical factors affecting the asset

Each of these factors is weighted differently. Weights were determined using pairwise comparison, which is often used in scientific studies.

Once the likelihood of failure is determined, the team also considered the consequence of failure. The combination of these two scores is used to determine overall risk to the system. Consequences of failure (COF) take the following into consideration:

- Size of the asset
- Proximity of the asset to wellfields
- Impact on residential and essential services
- System reliability, including redundancies
- Financial impact
- Community impact
- Environmental compliance

Pairwise comparison is also used to determine the weighting of consequences. The weighted numbers for LOF and COF are then multiplied. This process was undertaken for all City-owned pipes in Fort Lauderdale, which were then broken down into groups. Of 110 total miles of this pipe, the team determined that 37 miles required no further assessment due to the low LOF. Another nine miles were not assessed further because

the LOF was very high, and another group of assets was already included in the Consent Order. Additional testing was done on the remaining pipes to further clarify their risk and prioritize them according to their scores.

Ms. Carney explained that approximately seven miles of pipe were added to the Consent Order using this exercise. The Consent Order requires the City not only to address a number of specific assets, but to conduct a force main condition assessment and add other assets in need of repair/replacement. Another 13 miles of pipe were also added to the CIP. These were determined not to have imminent risk of failure, but should be addressed within the next five years. The remaining assets had low LOF or could be monitored in the future.

Mr. Partington recalled that in December, the Committee saw a similar presentation comparing the findings of the Reiss report with the more current report provided by Hazen and Sawyer. This comparison had concluded there were approximately 17 miles of pipe in the high-risk category. He asked if the full 17 miles have been added to the Consent Order or the CIP. Ms. Carney advised that the Consent Order now includes roughly 22 miles of high-risk force main, and reiterated that another 13 miles were recommended for addition to the CIP. She estimated that all work would be done by 2026.

Mr. Partington noted that the process described above includes a high degree of subjectivity. Ms. Carney agreed, pointing out that this was not a physically intrusive analysis: some data was available regarding breaks, and the consultants and City Staff are aware of the likelihood of certain materials to break. The team is also aware of the locations more likely to experience saltwater intrusion or be affected by other factors.

Chair Mammano asked if the cost of the additional miles of assets added to the Consent Order has been estimated, and if these funds have already been identified. Ms. Carney replied that these 7.1 miles total approximately \$35 million. Two of these assets have been fully constructed, while another is 70% complete and one is 50% complete. The final asset, a large redundant force main, is roughly 40%-50% complete.

3. Old Business

i. Continued Discussion on Developing Moratorium

Chair Mammano advised that this Item was added at Mr. Partington's suggestion. She recommended that it be included on every Agenda in the future, as the Committee is specifically charged with discussing the possible need for a moratorium and will ultimately need to take a position on this issue and make a recommendation to the City Commission.

Mr. Ladd commented that at this point he did not see the case being made for a moratorium. He explained that based on the information presented to the Committee, there are three areas of concern:

- Fire main system
- Water main system
- Sewer system

Mr. Ladd continued that he has seen no evidence that the fire or water main systems lack capacity or infrastructure to accommodate further development. Regarding the sewer system, he noted that increased usage is unlikely to result in pipe breakage, as their flow is pressurized. The most at-risk assets are already being aggressively addressed. He concluded that a moratorium would be unlikely to change any of these factors or put the system at greater risk.

Mr. Partington observed that the City Commission has heard input from the public suggesting that the system is sufficient to handle greater capacity, but cannot accommodate greater flow through pipes that are compromised. He felt a moratorium could be possible if the process through which new development is evaluated gives explicit consideration to the condition, as well as the capacity, of the City's infrastructure.

Mr. Ladd pointed out that if a moratorium is invoked, it would most likely apply to projects that have already been approved rather than projects applying for permits. If the City instituted a moratorium immediately, it is not known how long this would have an impact on the amount of flow being added to the system. He also emphasized the importance of addressing the 42 in. north-south main.

Ms. Scott suggested that if a moratorium is not deemed appropriate, the City's process for the issuance of capacity letters could be modified to take the condition of infrastructure into account. She felt the capacity letters issued by the City do not sufficiently take condition into consideration. Mr. Angeli also proposed development of a conditional analysis.

ii. Continued Capacity Letter Process / Project Walk-Through

Ms. Daniel recalled that at the December 2020 meeting, the Committee had requested additional information on the capacity letter process. Igor Vassiliev, Project Manager II, reviewed the spreadsheet used to track the issuance of capacity letters, which includes approximately 360 projects at present, sorted by their pump station basins. Once projects are completed and have been issued Certificates of Occupancy (CO), they are removed from the document.

The spreadsheet includes the following columns:

- Development Review Committee (DRC) case number
- Date of DRC review
- Project name

- Project address
- Project description (for example: hotel, condominium, marina)
- Water/sewer capacity letter issue date
- Date of final DRC approval
- Construction application submittal date
- Master permit issue date
- CO issue date
- Capacity analysis data
 - Allocated flow in MGD
 - Pump station basin
 - Point of connection (nearest upstream manhole number)
- Notes
- Water demand
- Sewer demand
- Committed sewer demand (by pump station)

Chair Mammano requested clarification of how committed sewer demand by pump station differs from committed sewer demand by treatment plant. Mr. Ladd explained that the treatment plant provides a global number, while the demand by pump station breaks this figure down further. This allows Staff to identify a zone or pump station that may be deficient and requires upgrade or replacement to accommodate greater capacity.

Mr. Marshall arrived at 3:38 p.m.

Mr. Vassiliev continued that a project may be moved from the spreadsheet for two reasons:

- It has been constructed and now represents actual rather than committed flow
- It misses a deadline or fails to secure necessary permits

The first deadline is the duration of the capacity letter itself, which is one year. If final DRC approval is not received within that year, the project falls off the list and must begin the process again. Once final DRC approval is received, a project has approximately two years to secure its building permit, depending upon the type of development. Extensions on time frames may also be possible, including statutory extensions resulting from states of emergency. Mr. Marshall advised that if a project is under construction and regular inspections are ongoing to keep permits alive, it remains on the list.

Mr. Partington suggested that the spreadsheet, or a portion of its information, should be included with the City's capacity letter for each project when it goes before the DRC and possibly to the City Commission for approval. He asked if developments outside the City's boundaries but which are served by the City's infrastructure are taken into

account when determining capacity. Mr. Vassiliev confirmed this, noting that the City provides a capacity letter when supplying developments outside City limits with water.

Mr. Partington also asked if some of the infrastructure that would accommodate flows from projects on the spreadsheet are included among the list of high-risk assets developed by Hazen and Sawyer, including trunk and force mains. Mr. Vassiliev advised that it is possible the two lists overlap. He also pointed out that if sewer flow is added to a pump station, pressure and flow in the force main is not affected, as the pump station does not work continuously. Addition of flow means the station works more often, but moves fluid through the same pipes at the same pressure. Upgrades may be recommended for pump stations if new development causes it to exceed its optimum run time.

Ms. Daniel requested clarification that the Committee was suggesting a modification to the City's capacity review process to include LOF/COF when evaluating new requests. Mr. Partington replied that he would like the flows from new developments to be traced so their impact on high-risk infrastructure, even at a distance, can be considered. Chair Mammano agreed, emphasizing the importance of condition as identified by Hazen and Sawyer. She added that the City should determine how many projects are using at-risk infrastructure, and may wish to consider no further addition of new projects until the infrastructure has been upgraded, four to five years in the future.

Mr. Partington recalled from previous meetings that it would be difficult to base a moratorium on the condition of pipes at a distance from project sites; however, he reiterated that it could be possible to impose a moratorium while the City modifies the process by which adequacy is determined.

Mr. Angeli recommended not using the word "moratorium," as it implies a more broad-based activity than combining condition and capacity in adequacy letters. He did not believe a broad-based reason to halt development existed. Mr. Marshall agreed. Mr. Ladd advised that the general population may not recognize the work put in by Staff to determine capacity, which at times results in developers replacing or installing new infrastructure to accommodate their projects.

Mr. Vassiliev briefly reviewed a project on the spreadsheet as an example, noting that it underwent several changes, including design as well as the number of units. This resulted in the issue of multiple capacity letters as flow estimates were modified to reflect these changes. The project is currently going through final DRC approval.

Mr. Partington asked if the sample project required the upgrade of any infrastructure. Mr. Vassiliev did not recall any such requirement. Chair Mammano pointed out, however, that a number of projects are listed in the same area as the sample project, and connect to the same pump stations and other infrastructure. Mr. Vassiliev confirmed that the pump station has sufficient capacity to accommodate the additional flows resulting from the projects.

Chair Mammano asked if the pump station connects to any infrastructure identified as high-risk that has not yet been repaired or replaced. Mr. Vassiliev advised that this would require a full inspection of the map.

Mr. Partington showed the Committee a map from a previous meeting which identified the location of medium- and high-risk force mains throughout the City. He advised that the infrastructure in the area of the sample project is mostly medium-risk.

Mr. Vassiliev called the Committee's attention to a table showing the run times of pump stations, pointing out that stations with more than eight or 10 hours of run time per day were identified. These stations are on the City's watch list for future repairs. He characterized this table as a work in progress, as its information is constantly updated. When projects affect the pump stations identified as under stress, the capacity letter for a nearby project may include a condition that the station be upgraded to accommodate the increase.

Mr. Castellon added that in the case of older pump stations requiring rehabilitation, the City may provide a portion of the capital necessary to upgrade or rehabilitate the pump station and bring it up to standard, in addition to money provided by the developer. This activity would be in addition to any impact fees the developer may have already paid. Talal Abi-Karam, Assistant Director of Public Works (Utilities), reviewed the locations of a number of pump stations that will be upgraded or replaced as a result of incoming projects.

Chair Mammano asked if the pump stations identified as high-risk are funded for upgrade or replacement through either the bond or the CIP in time to accommodate projected additional flow. Ms. Daniel replied that a presentation is planned under New Business to provide information on pump station replacement.

Mr. Partington recommended that Staff consider their discussion with the Committee at today's meeting and determine if any changes could be made to the process to include more explicit consideration of infrastructure condition. He also requested that when a prospective moratorium is discussed on a subsequent Agenda, it may be best to have an Assistant City Attorney present to provide clarity.

4. New Business

i. Impact Fees Allocation

Kymberly Holcombe, Business Operations Manager, provided an overview of impact fees, which are one-time fees paid by new customers who connect to the City's water and sewer systems. The fees are commensurate to the capacity these customers need for either existing or new development. They are used to increase the overall capacity of the system. Impact fees are assessed per unit.

In 2018, the City contracted with consultant Stantec to review, analyze, and recommend water and sewer rates in the current environment, while at the same time considering the current \$204 million bond as well as future tranches of bond funds. The next tranche is scheduled for 2023. Stantec recommended looking into the cost of increasing both water and sewer capacity. The formula used to calculate fees was updated accordingly. Chair Mammano recalled that the Committee had supported this analysis and recommendation.

Ms. Holcombe stated that impact fee revenue is held in separate funds for water and sewer uses and is used specifically to increase the capacity of the system and to make bond payments, as bond funds are used to increase system capacity as well. She cited the example of upsizing pipes, increasing the size of a pump station, or adding redundant line to increase flow capacity. Impact fee dollars are more often used for bond interest payments than direct use on a given project.

Chair Mammano requested additional clarification of how impact fee revenue is used. Ms. Daniel noted that these fees are not maintained within the Public Works Department, but by the Department of Sustainable Development (DSD). Ms. Holcombe added that impact fees are collected upon issuance of a CO. One of Stantec's recommendations that arose from the rate study report was that these rates be reviewed and assessed every three years. Higher impact fees were implemented by the City Commission in December 2020.

Mr. Marshall recommended that members interested in further consideration of impact fees examine Florida Statute Chapter 163, Section 31-801, which constitutes the Impact Fee Act. This Act lists all requirements related to impact fees, including notice requirements prior to an increase, how the fees are maintained in a separate account, and other aspects of the process. Chair Mammano observed that the Committee would like to see a full accounting of how these dollars are used in the future. Ms. Daniel stated that this accounting would be provided at a subsequent meeting.

ii. Pump Station Replacement Update

Mr. Castellon advised that pump stations are managed by Operations, which keeps track of which stations are in poor shape or require rehabilitation, upgrade, or upsizing. Each year, when the CIP is developed, Staff meets with Operations to determine which pump stations must be addressed. The Consent Order includes five major problematic pump stations on which work has been completed.

The City has a total of 186 pump stations throughout its system. At present, the City is working on 15 of these stations in the design or construction phases. Staff also interacts with DSD to familiarize itself with the work that needs to be done on these stations. A number of pump stations will be addressed using bond funds, while others will be included in the CIP.

Ms. Scott left the meeting at 4:45 p.m.

5. Public Works Update

- i. Continued Water & Sewer Breaks Report 2020**
- ii. Mapping of Water Breaks**
- iii. Mapping of Sewer Breaks / High Risk Infrastructure**

The Committee agreed by consensus to move Item 5 to the next Agenda.

7. Public Comments

There were no public comments.

Chair Mammano requested an update on the progress of work on a major 42 in. main. Mr. Castellon replied that work on this project is roughly 77% complete. The deadline for completion is late July 2020, although Staff feels it may be possible to finish the project earlier. Relining of pipe will be addressed in the next bond.

Mr. Partington commented that over the past few months, City Staff is working under a great deal of pressure and extraordinary circumstances. He concluded that the Committee is appreciative of their work.

8. Adjournment – Next Regular Meeting TBA

There being no further business to come before the Committee at this time, the meeting was adjourned at 4:52 p.m.

Any written public comments made 48 hours prior to the meeting regarding items discussed during the proceedings have been attached hereto.

[Minutes prepared by K. McGuire, ProtoType, Inc.]

Capital Expansion Impact Fees

Revenue as of 9-30-2020		
	2019	2020
452 WATER EXPANSION/ IMPACT FEE CONSTRUCTION		2,098,681
B251 W&S IMPACT FEES - RESIDENTIAL		209,458
B252 W&S IMPACT FEES - COMMERCIAL		1,889,223
453 SEWER EXPANSION/ IMPACT FEE CONSTRUCTION		1,407,598
B251 W&S IMPACT FEES - RESIDENTIAL		189,346
B252 W&S IMPACT FEES - COMMERCIAL		1,218,252
N963 IMPACT FEES - SEWER		(0)
454 WATER & SEWER GENERAL CAPITAL PROJECTS	4,645,707	(0)
N963 IMPACT FEES - SEWER	4,645,707	(0)
Grand Total	4,645,707	3,506,279

Water & Sewer Master Plan 2017

Revenues Appropriated by City Commission on 4.3.2018 (CAM #18-0336)	\$	200,000,000.00
Interest on Revenues	\$	4,547,778.64
Total Appropriated Amount	\$	204,547,778.64

Bond Funded Projects by Category	Total Budget Amount	Actuals spent to Date as of January 20, 2021	% Spent to Date as of January 20, 2021	Encumbrances as of January 20,2021	Balance as of January 20, 2021
Finance	26,908,766.00	16,766,776.00	62.31%	1,238,531.21	8,903,458.79
Fiveash Upgrades	25,928,046.00	5,129,297.08	19.78%	408,008.50	20,390,740.42
I&I	14,435,046.00	11,590,266.50	80.29%	2,487,135.04	357,644.46
Master Plan/Report	1,501,455.00	797,056.07	53.09%	70,409.60	633,989.33
Peele Dixie Upgrades	310,000.00	45,545.50	14.69%	53,982.50	210,472.00
Sewer Basin	1,788,257.00	1,230,135.12	68.79%	79,778.75	478,343.13
Sewer Force main	108,430,548.64	49,852,821.84	45.98%	26,167,977.84	32,409,748.96
Watermain	25,245,660.00	19,086,925.53	75.60%	2,530,712.68	3,628,021.79
Grand Total	204,547,778.64	104,498,823.64	51%	33,036,536.12	67,012,418.88

Changes to Total Budget Amounts since 1/4/2021 ITFAC meeting

Finance Total Budget reduced by \$3,000,000 - Transferred \$3,299,455 to P12628 & 12412 at the 1/5/21 Commission meeting by budget amendment (CAM #21-0044)
Master Plan Total Budget increased by \$299,455 - Funding transferred from FD495.01 (Fund Balance) and appropriated to P12628 - Interlocal Agreement with Pompano Beach in the amount of \$299,455 (CAM #21-0044)
Sewer Force Main Total Budget increased by \$3,000,000 - Funding transferred from FD495.01 (Fund Balance) and appropriated to P12412 - Pump Stations A-16 Upgrades in the amount of \$3,000,000 (CAM #21-0044)

WATER & SEWER BOND 495 & CENTRAL REGION BOND 496

Index Code / Project Title	Category	Project Status	Budget	Actuals as of January 20, 2021	% Spent to Date as of January 20, 2021	Encumbrances	Remaining Balance as of January 20, 2021
FD495.01 WATER & SEWER MASTER PLAN 2017	Finance	Implementation	24,924,912.00	14,984,714.00	60%	1,223,407.00	8,716,791.00
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017	Finance	Implementation	1,983,854.00	1,782,062.00	90%	15,124.21	186,667.79
P10814.495 CENTRAL NEW RIVER W/MAIN RIVER CROSSING	Watermain	Design	1,632,562.00	97,555.44	6%	755,195.90	779,810.66
P10850.495 VICTORIA PARK A NORTH-SMALL WATERMAINS	Watermain	Construction	4,435,773.00	4,395,472.68	99%	40,299.92	0.40
P11080.495 PORT CONDO SMALL WATER MAIN IMPROVEMENTS	Watermain	Design	557,559.00	50,388.10	9%	57,881.65	449,289.25
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB	I&I	Construction	5,592,153.00	5,189,581.28	93%	402,571.72	(0.00)
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB	I&I	Construction	3,568,391.00	2,377,966.17	67%	1,190,425.07	(0.24)
P11589.495 FIVEASH WTP DISINFECTION IMPROVEMENTS	Fiveash Upgrades	Construction	17,328,046.00	851,684.09	5%	303,659.18	16,172,702.73
P11901.495 VICTORIA PK STH SM WATERMAINS IMPROVEMNT	Watermain	Construction	5,149,658.00	5,082,283.49	99%	67,260.00	114.51
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS	I&I	Construction	1,091,027.00	462,516.00	42%	628,510.66	0.34
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB	I&I	Construction	4,183,475.00	3,560,203.05	85%	265,627.59	357,644.36
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL	Sewer Force main	Construction	478,014.00	478,013.50	100%	-	0.50
P12180.495 CROISSANT PARK SMALL WATER MAINS	Watermain	Construction	3,060,125.00	2,822,718.37	92%	27,418.26	209,988.37
P12184.495 DAVIE BLVD 18" WM ABAN I-95 TO SW 9 AVE	Watermain	On Hold	2,075,500.00	297,344.25	14%	55,603.75	1,722,552.00
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN	Sewer Basin	Bidding	1,254,020.00	1,222,607.61	97%	-	31,412.39
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP	Sewer Force main	Warranty	2,697,298.64	2,697,298.64	100%	-	-
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING	Sewer Force main	Construction	609,000.00	608,999.50	100%	-	0.50
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation & Planning	-	-	-	0.13	(0.13)
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation & Planning	-	-	-	0.03	(0.03)
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation & Planning	752,000.00	658,988.25	88%	46,157.43	46,854.32
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation & Planning	115,000.00	105,249.32	92%	3,904.51	5,846.17
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Design	4,784,890.00	304,575.80	6%	551,531.73	3,928,782.47
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM	Sewer Force main	Design	11,096,690.00	392,504.74	4%	800,856.80	9,903,328.46
P12385.496 SE 10TH AV 48" FM REPL & 36" BYPASS	Sewer Force main	Finance	18,326.00	18,326.00	100%	-	-
P12386.496 54" FM RPL SE 9TH/10TH AV & NEW PARALLEL	Sewer Force main	Project Initiation & Planning	6,072.00	6,072.00	100%	-	-
P12387.496 EFFLUENT MAIN REHABILITATION	Sewer Force main	Bidding	8,184,000.00	69,097.00	1%	294.00	8,114,609.00
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT	Sewer Force main	Design	3,313,090.00	437,336.23	13%	2,875,753.77	-
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH	Sewer Force main	Construction	2,112,550.00	220,834.14	10%	1,891,714.46	1.40
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2	Sewer Force main	Construction	2,500,000.00	2,356,723.21	94%	119,131.04	24,145.75
P12391.495 BERMUDA RIVIERA SML WTRMN IMPROVEMENTS	Watermain	Construction	4,976,700.00	4,401,079.20	88%	421,127.20	154,493.60
P12395.495 PEELE DIXIE ELECTRICAL STUDIES	Peele Dixie Upgrades	Construction	210,000.00	40,994.50	20%	25,832.50	143,173.00
P12396.495 PEELE DIXIE SURGE PROTECTION UPGRADES	Peele Dixie Upgrades	Design	100,000.00	4,551.00	5%	28,150.00	67,299.00
P12399.495 FIVEASH WTP PCCP REPLACEMENT	Fiveash Upgrades	Bidding	3,880,000.00	32,989.00	1%	-	3,847,011.00
P12400.495 PROSPECT WELLFIELD ELC STUDIES & TESTING	Master Plan/Report	Complete	185,000.00	1,168.00	1%	-	183,832.00
P12402.495 PEELE DIXIE WELLFIELD ELC STUD & TESTING	Master Plan/Report	Construction	150,000.00	31,650.50	21%	20,347.50	98,002.00
P12404.495 EXCAVATE & DISPOSE OF DRY LIME SLUDGE	Fiveash Upgrades	Warranty	4,600,000.00	4,228,973.31	92%	-	371,026.69
P12406.496 REDUNDANT FORCE MAIN FROM B-REPUMP	Sewer Force main	Project Initiation & Planning	10,377.00	10,377.00	100%	-	-
P12407.495 SUBACQUEOUS FM CROSSING REINSTATEMENT	Sewer Force main	Canceled	-	-	-	-	-
P12410.495 PUMP STATION C-1 REPLACEMENT	Sewer Force main	Design	620,000.00	-	-	-	620,000.00
P12412.495 PUMP STATIONS A-16 UPGRADE	Sewer Force main	On Hold	3,000,000.00	-	-	-	3,000,000.00
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE	Sewer Force main	Construction	580,000.00	155,882.12	27%	350,982.28	73,135.60
P12414.495 GRAVITY PIPE IMPV TO DWNTWN COL SYSTM	Sewer Force main	Bidding	843,000.00	182,165.65	22%	583,373.35	77,461.00
P12415.495 PUMP STATION A-7 UPGRADE	Sewer Force main	Bidding	2,031,862.00	248,523.31	12%	1,756,607.09	26,731.60
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12419.495 FORCE MAIN ASSESSMENT	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12419.496 FORCE MAIN ASSESSMENT	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12456.495 SEWER BASIN D-40 REHAB	Sewer Basin	Project Initiation & Planning	169,237.00	7,527.51	4%	79,778.75	81,930.74
P12463.495 CORAL SHORES SML WATERMAIN IMPROVEMENTS	Watermain	Bidding	1,118,998.00	11,174.00	1%	1,105,926.00	1,898.00
P12485.495 FIVEASH WTP FILTERS REHABILITATION	Fiveash Upgrades	Construction	120,000.00	15,650.68	13%	104,349.32	-
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP	Sewer Force main	Construction	24,725,379.00	17,626,490.20	71%	7,098,887.92	0.88
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP	Sewer Force main	Construction	35,750,000.00	24,039,602.80	67%	10,138,845.40	1,571,551.80
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT	Watermain	Project Initiation & Planning	1,928,910.00	1,928,910.00	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	309,875.00	-	-	-	309,875.00
P12618.495 DOLPHIN ISLES B-14 SEWER BASIN REHAB	Sewer Basin	Project Initiation & Planning	365,000.00	-	-	-	365,000.00
P12619.495 BAYVIEW DR 16" FM TO PUMP STATION B-14	Sewer Force main	Project Initiation & Planning	2,570,000.00	-	-	-	2,570,000.00
P12620.495 LAS OLAS MARINA PUMP STATION D-31	Sewer Force main	Project Initiation & Planning	2,500,000.00	-	-	-	2,500,000.00
P12628.495 INTERLOCAL AGREEMENT WITH POMPAN0 BEACH	Master Plan/Report	Project Initiation & Planning	299,455.00	-	-	-	299,455.00
Grand Totals			204,547,778.64	104,498,823.64	51%	33,036,536.12	67,012,418.88

Consent Order Projects Financial Report Summary
January 26, 2021

Consent Order Projects by Category	Total Budget Amount	Actuals spent to Date as of January 26, 2021	% Spent to Date as of January 26, 2021	Encumbrances as of January 26,2021	Balance as of January 26, 2021
GTL Upgrades	600,000.00	87,271.50	15%	23,752.50	488,976.00
I&I	24,428,547.00	18,399,641.49	75%	5,498,891.83	530,013.68
Master Plan/Report	8,550,322.31	6,045,479.99	71%	1,186,712.60	1,318,129.72
Sewer Force Main	1,689,730.29	1,689,730.29	100%	-	-
Sewer Basin	12,043,871.05	5,084,909.35	42%	5,756,998.28	1,201,963.42
Sewer Force Main	134,163,352.79	74,968,445.03	56%	26,621,448.89	32,573,458.87
Stormwater	72,219,893.00	3,251,654.74	5%	5,708,702.52	63,259,535.74
Watermain	2,238,785.00	1,928,910.00	86%	-	309,875.00
Grand Total	255,934,501	111,456,042	44%	44,796,507	99,681,952

Consent Order Projects Financial Report
January 26, 2021

Index Code / Project Title	Category	Project Status	Budget	Actuals as of January 26, 2021	% Complete	Encumbrances as of January 26, 2021	Remaining Balances as of January 26, 2021
P11563.454 VICTORIA PARK SEWER BASIN A-19 REHAB			1,606,619	1,296,840		309,778	1
P11563.482 VICTORIA PARK SEWER BASIN A-19 REHAB			-	-		-	-
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB			5,592,153	5,189,581		402,572	(0)
P11563 TOTAL PROJECT COSTS	I&I	Construction	7,198,772	6,486,421	90%	712,350	1
P11566.454 RIO VISTA SEWER BASIN D-43 REHAB			2,823,976	1,788,986		977,073	57,917
P11566.482 RIO VISTA SEWER BASIN D-43 REHAB			381	381		-	-
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB			3,568,391	2,377,966		1,190,425	(0)
P11566 TOTAL PROJECT COSTS	I&I	Construction	6,392,748	4,167,333	65%	2,167,498	57,917
P11868.470 RIVER OAKS STORMWATER ANALYSIS			957,578	887,514		19,011	51,053
P11868.473 RIVER OAKS STORMWATER ANALYSIS			37,975,000	249,069		3,430,528	34,295,403
P11868 TOTAL PROJECT COSTS	Stormwater	Design	38,932,578	1,136,584	3%	3,449,538	34,346,456
P11879.454 PUMP STATION B-10 REHAB			1,908,427	1,908,427		-	-
P11879 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,908,427	1,908,427	100%	-	-
P11842.470 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			1,928,448	1,821,153		12,152	95,143
P11842.473 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			30,475,000	161,194		2,189,468	28,124,338
P11842 TOTAL PROJECT COSTS	Stormwater	Design	32,403,448	1,982,347	6%	2,201,620	28,219,481
P11881.454 PUMP STATION D-45 REHABILITATION			509,868	509,868		-	(0)
P11881 TOTAL PROJECT COSTS	Sewer Force Main	Complete	509,868	509,868	100%	-	(0)
P11991.454 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			9,844,894	2,918,332		5,756,998	1,169,564
P11991.482 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			3,335	3,335		-	-
P11991 TOTAL PROJECT COSTS	Sewer Basin	Construction	9,848,229	2,921,667	30%	5,756,998	1,169,564
P12001.454 SEWER BASIN D-40 REHAB			731,713	731,713		-	-
P12001.482 SEWER BASIN D-40 REHAB			3,766	3,766		-	-
P12001 TOTAL PROJECT COSTS	Sewer Basin	Complete	735,479	735,479	100%	-	-
P12049.454 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			1,577,469	1,205,073		262,480	109,916
P12049.482 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			8,255	8,255		-	-
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			1,091,027	462,516		628,511	0
P12049 TOTAL PROJECT COSTS	I&I	Construction	2,676,751	1,675,844	63%	890,991	109,916
P12055.454 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,976,801	2,509,840		1,462,426	4,535
P12055.482 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			-	-		-	-
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			4,183,475	3,560,203		265,628	357,644
P12055 TOTAL PROJECT COSTS	I&I	Construction	8,160,276	6,070,043	74%	1,728,054	362,179
P12124.454 CNTRL BCH ALLIANCE PUMP STN REPLAC D-41			2,132,448	2,132,448		-	-
P12124 TOTAL PROJECT COSTS	Sewer Force Main	Complete	2,132,448	2,132,448	100%	-	-
P12133.454 PUMP STN A-13 REDIRECTION E OF FEDERAL			4,454,899	4,115,223		66,547	273,129
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL			478,014	478,014		-	1
P12133 TOTAL PROJECT COSTS	Sewer Force Main	Construction	4,932,913	4,593,237	93%	66,547	273,130
P12177.454 E LAS OLAS 12" FORCE MAIN REPLACEMENT			1,689,730	1,689,730		-	-
P12177 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,689,730	1,689,730	100%	-	-
P12202.454 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			206,143	205,156		0	987
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			1,254,020	1,222,608		-	31,412
P12202 TOTAL PROJECT COSTS	Sewer Basin	Bidding	1,460,163	1,427,763	98%	0	32,400
P12264.470 CITYWIDE CANAL DREDGING PLAN - CYCLE 1			883,867	132,724		57,544	693,599
P12264 CITYWIDE CANAL DREDGING PLAN - CYCLE 1	Stormwater	Design	883,867	132,724	15%	57,544	693,599
P12319.454 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			13,182,064	13,182,064		-	-
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			2,697,299	2,697,299		-	-
P12319 TOTAL PROJECT COSTS	Sewer Force Main	Warranty	15,879,363	15,879,363	100%	-	-
P12352.454 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			1,300,000	869,665		39,932	390,403
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			609,000	609,000		-	1
P12352 TOTAL PROJECT COSTS	Sewer Force Main	Construction	1,909,000	1,478,665	77%	39,932	390,404
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS			66,017	66,017		-	-
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS			15,485	15,485		-	-
FD495.01 Water & Sewer Master Plan 2017			457,111	392,817		64,294	0
FD496.01 Water & Sewer Regional Master Plan 2017			107,224	92,142		15,081	0
P12367 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	645,837	566,462	88%	79,376	0

Consent Order Projects Financial Report
January 26, 2021

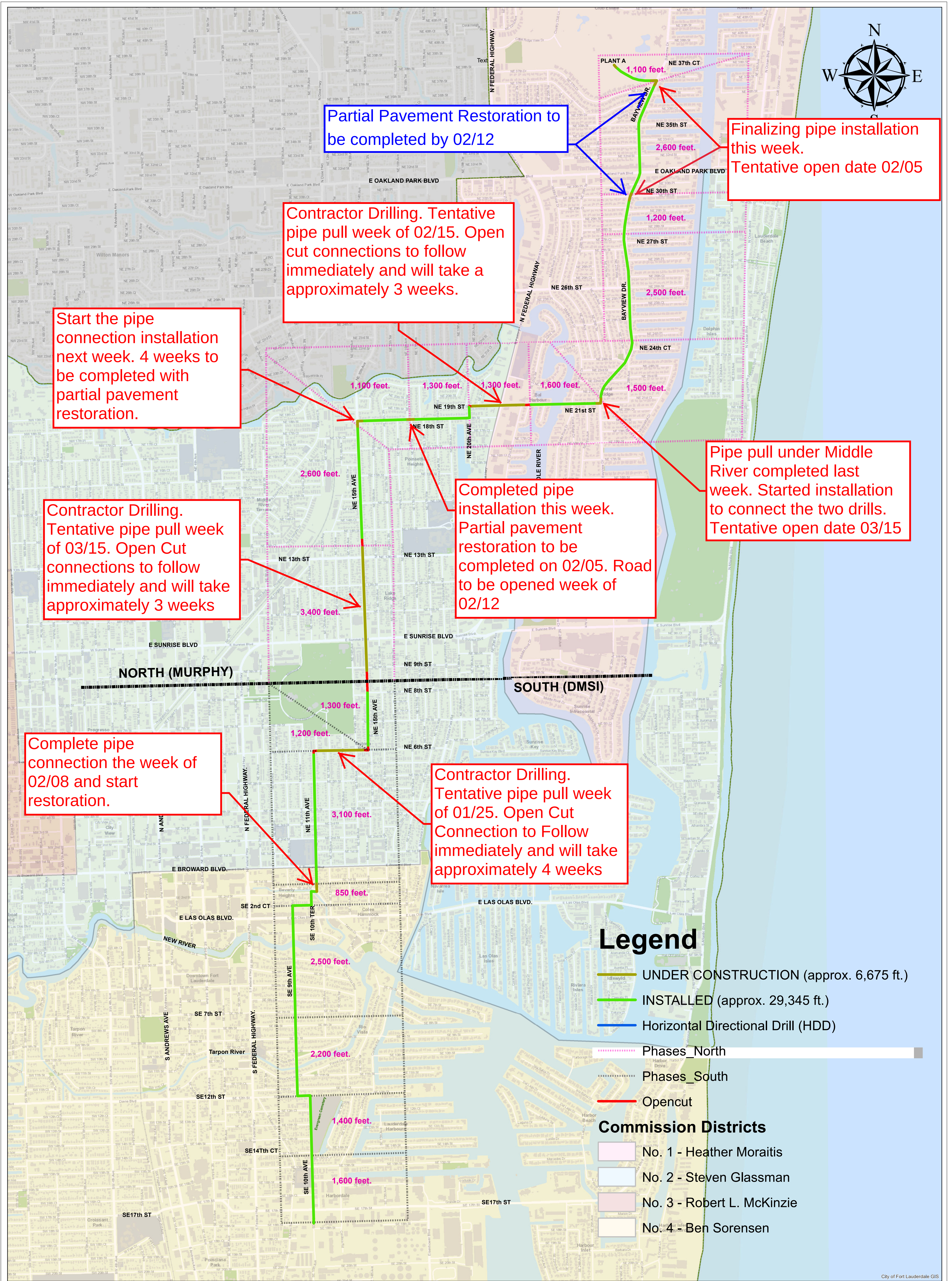
Index Code / Project Title	Category	Project Status	Budget	Actuals as of January 26, 2021	% Complete	Encumbrances as of January 26, 2021	Remaining Balances as of January 26, 2021
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM			705,709	704,838		871	0
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM			34,571	34,528		43	0
PBS060101 UTLITIES ENGINEERING OPERATIONS			11,349	9,732		1,617	(0)
PBS670501 LOHMEYER REGIONAL PLANT SUPPORT			198,741	198,662		79	0
P12368 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	950,370	947,760	100%	2,610	(0)
P12375.451 PROG MGMT OF CONSENT ORDER PROJECTS			662,758	380,732		30,039	251,987
P12375.454 PROG MGMT OF CONSENT ORDER PROJECTS			1,013,442	-		-	1,013,442
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS			752,000	658,988		46,157	46,854
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS			115,000	105,249		3,905	5,846
P12375 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	2,543,200	1,144,970	45%	80,101	1,318,130
P12383.451 NE 25TH AVE FORCE MAIN REPLACEMENT			1,277,249	-	0%	-	1,277,249
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT			4,784,890	304,576		551,532	3,928,782
P12383 TOTAL PROJECT COSTS	Sewer Force Main	Design	6,062,139	304,576	5%	551,532	5,206,031
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM			11,096,690	392,505		800,857	9,903,328
P12384 TOTAL PROJECT COSTS	Sewer Force Main	Design	11,096,690	392,505	4%	800,857	9,903,328
P12387.496 EFFLUENT MAIN REHABILITATION			8,184,000	69,097		294	8,114,609
P12387 TOTAL PROJECT COSTS	Sewer Force Main	Bidding	8,184,000	69,097	1%	294	8,114,609
P12388.454 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,761,244	12,920		67,987	3,680,337
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,313,090	437,336		2,875,754	-
P12388 TOTAL PROJECT COSTS	Sewer Force Main	Design	7,074,334	450,256	6%	2,943,741	3,680,337
P12389.454 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			988,620	4,350		30,417	953,853
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			2,112,550	220,834		1,891,714	1
P12389 TOTAL PROJECT COSTS	Sewer Force Main	Construction	3,101,170	225,184	7%	1,922,131	953,854
P12390.454 16" FM ALONG LAS OLAS BLVD PHASE 2			2,393,000	631,216		219,686	1,542,098
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2			2,500,000	2,356,723		119,131	24,146
P12390 TOTAL PROJECT COSTS	Sewer Force Main	Construction	4,893,000	2,987,939	61%	338,817	1,566,244
P12413.454 FM FROM PUMP STN D-35 TO D-36 UPSIZE			900,000	3,284		689,537	207,179
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE			580,000	155,882		350,982	73,136
P12413 TOTAL PROJECT COSTS	Sewer Force Main	Construction	1,480,000	159,166	11%	1,040,519	280,315
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING			3,441,352	2,416,726		1,024,626	0
P12418 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	3,441,352	2,416,726	70%	1,024,626	0
P12419.495 FORCE MAIN ASSESSMENT			8,956	8,956		-	-
P12419.496 FORCE MAIN ASSESSMENT			439	439		-	-
FD495.01 Water & Sewer Master Plan 2017			915,328	915,328		-	-
FD496.01 Water & Sewer Regional Master Plan 2017			44,840	44,840		-	-
P12419 TOTAL PROJECT COSTS	Master Plan/Report	Complete	969,563	969,563	100%	-	-
P12529.451 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS			600,000	87,272		23,753	488,976
IMPROVEMENTS	GTL Upgrades	Project Initiation & Planning	600,000	87,272	15%	23,753	488,976
P12566.451 REDUNDANT SEWER FM NORTH TO GTL WWTP			4,524,621	2,211,621		1,679,346	633,654
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP			24,725,379	17,626,490		7,098,888	1
P12566 TOTAL PROJECT COSTS	Sewer Force Main	Construction	29,250,000	19,838,112	68%	8,778,234	633,655
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP			35,750,000	24,039,603		10,138,845	1,571,552
P12567 TOTAL PROJECT COSTS	Sewer Force Main	Construction	35,750,000	24,039,603	67%	10,138,845	1,571,552
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT			1,928,910	1,928,910		-	-
P12569 TOTAL PROJECT COSTS	Watermain	Complete	1,928,910	1,928,910	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT			309,875	-	0%	-	309,875
P12570 TOTAL PROJECT COSTS	Watermain	Complete	309,875	-	0%	-	309,875
Grand Total			255,934,501	111,456,042	44%	44,796,507	99,681,952

Consent Order Project Status
Thursday, December 10, 2020

Phase I I/I Project Status Consent Order Paragraph 6(d)

Project No.	Project Name	Description	Completion Date			Percent Complete ¹
			Required (CO)	Scheduled	Actual	
454-P11563. 454-6599	Victoria Park Sewer Basin A-19	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration and inflow.	12/30/2020	-	11/30/20	100%
454-P11566. 454-6599	Rio Vista Sewer Basin D-43		12/30/2020	-	11/30/20	100%
454-P11991. 454-6599	Downtown Pump Station A-7		12/30/2020	-	11/30/20	100%
454-P12049. 454-6599	Flagler Heights Sewer Basin A-21		12/30/2020	-	11/30/20	100%
454-P12055. 454-6599	Sewer Basin A-18		12/30/2020	-	11/30/20	100%
454-P12001. 454-6599	Sewer Basin D-40		12/30/2020	-	12/2017	100%

1: Percent Complete is for the entire life cycle of the project, i.e. planning, design, bidding, and construction through final completion.



CITY OF FORT LAUDERDALE

REDUNDANT SEWER FORCE MAIN PROJECT

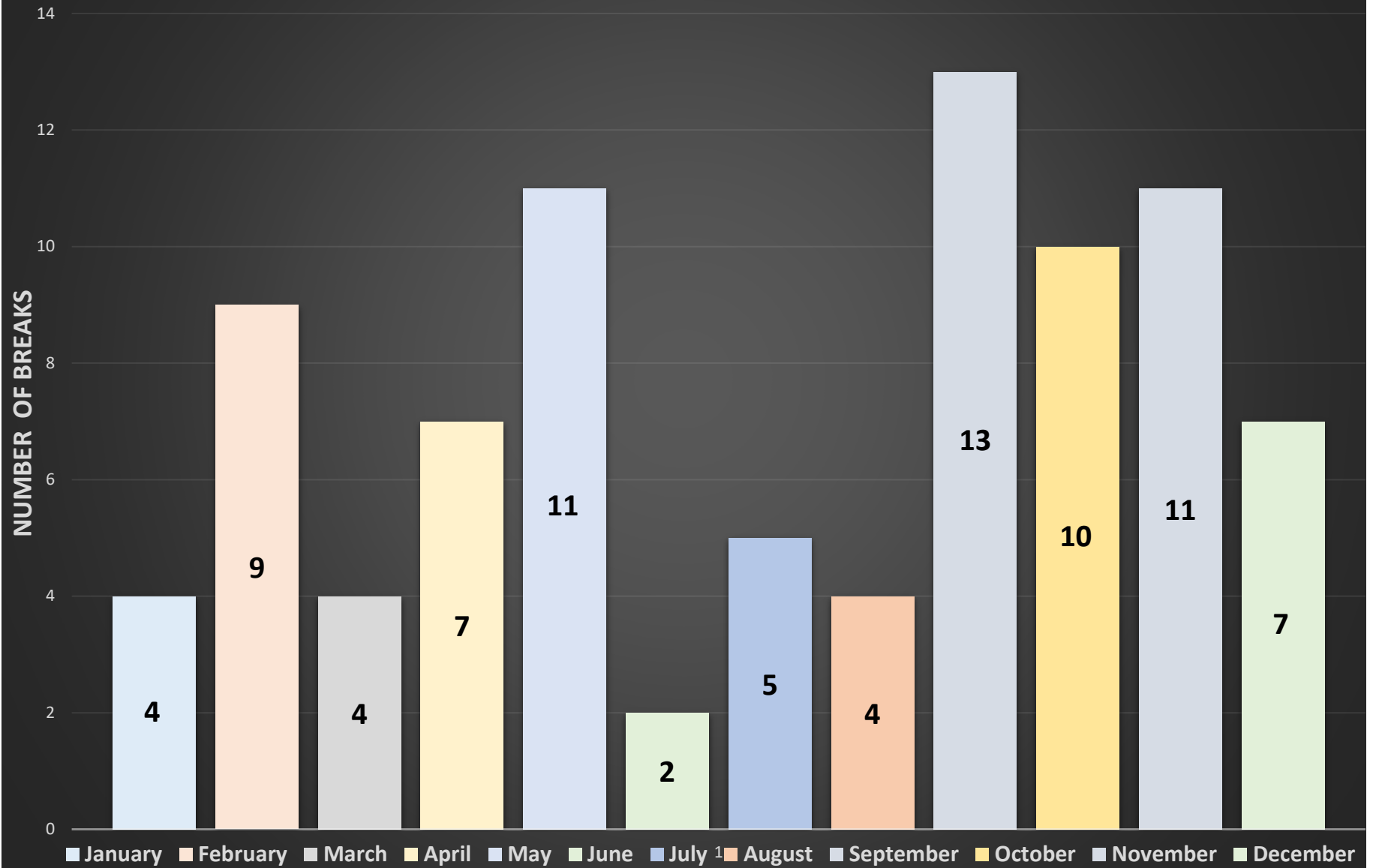
PROGRESS UPDATE

Created By: Krishank

Map Date: 1/13/2021

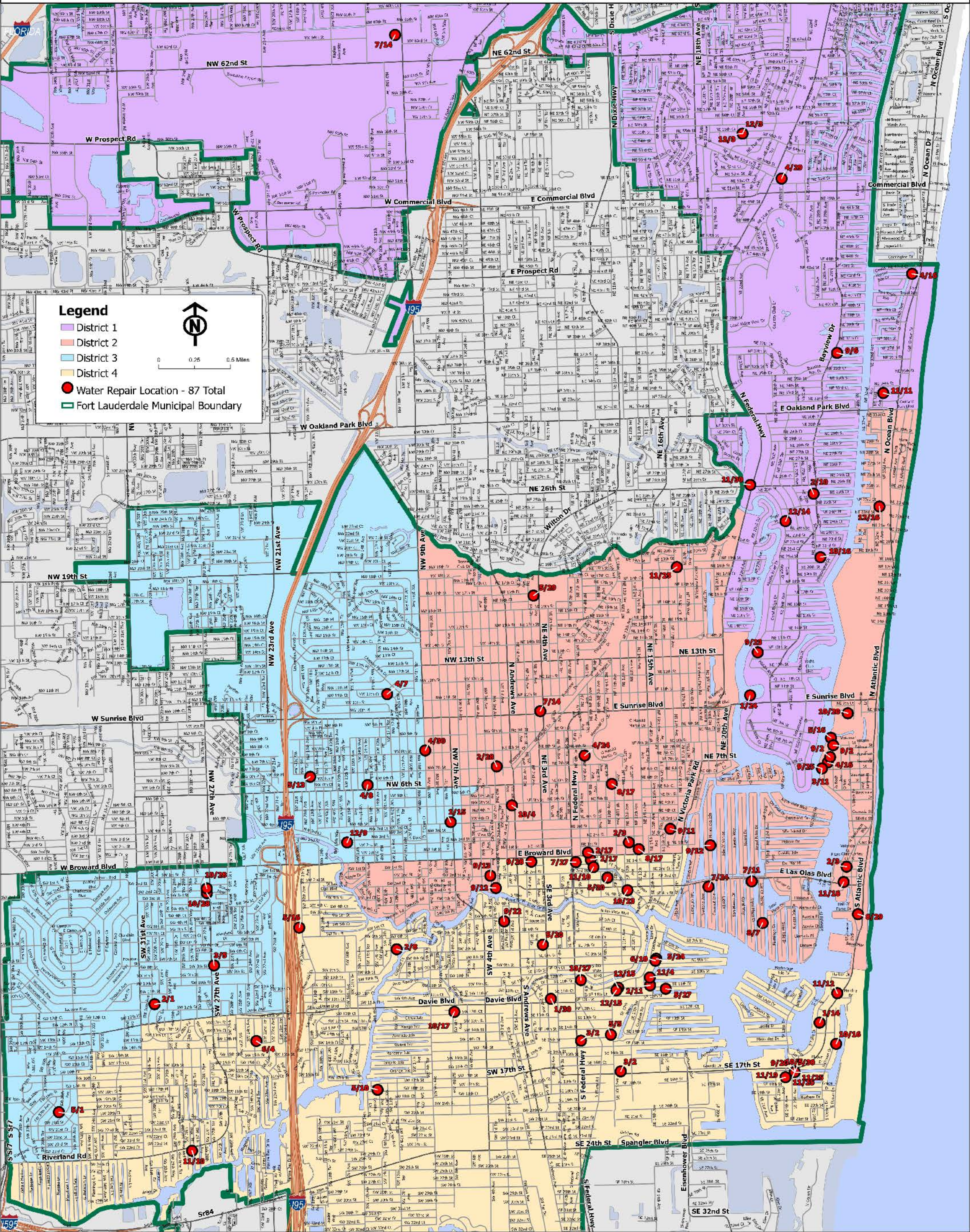
Total Water Main Breaks by Month (2020)

January 2020 - December 2020





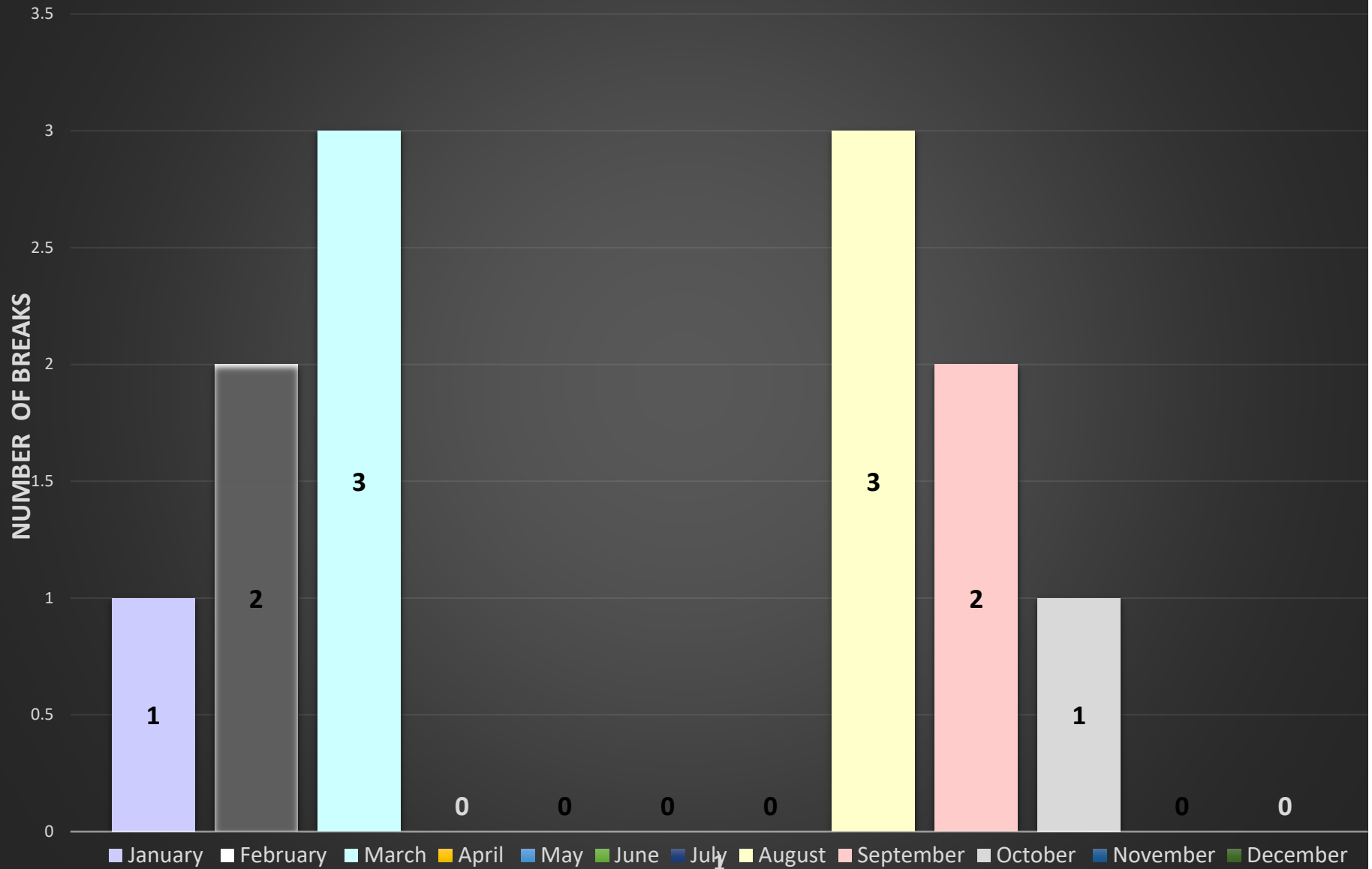
FY 2020- Locations for Water Distribution Breaks



Date of break/PBWN	Q-Alert#	Address	Type	Size	Date of break/PBWN	Q-Alert#	Address	Type	Size	Date of break/PBWN	Q-Alert#	Address	Type	Size	Date of break/PBWN	Q-Alert#	Address	Type	Size
1/14/2020	579326	1400 East Lakes Dr	Water Main	6-inch	4/29/2020	618024	5201 NE 24 Terrace	Water Main	6-inch	8/17/2020	655035	1220 NE 1 St, 13 NE 13 Ave & 1301 E Broward Blvd	Water Main	4-inch	10/27/2020	683099	611 Ponce De Leon Dr	Water Main	6-inch
1/18/2020	584963	1101 Bayview Dr (North Gordon Road)	Water Main	12-inch	4/30/2020	618040	812 NW 4 Ave	Water Main	6-inch	8/20/2020	681888	Bayshore Dr between Tarramar St & Viaduct St	Water Main	12-inch	10/28/2020	684253	SW 27 Ave between SW 2 Ct & SW 4 Pl	Water Main	8-inch
1/30/2020	585714	SE 3 Ave & Davie Blvd	Water Main	2-inch	5/5/2020	621514	SW 14 Ave & SE 10 Ave	Water Main	6-inch	9/2/2020	663071	Arline Ave & Viaduct Street	Water Main	6-inch	11/4/2020	684253	SE 10 St & Cordova Rd	Water Main	8-inch
2/1/2020	586977	2972 SW 11 Ct	Water Main	6-inch	5/10/2020	620780	SW 14 Ave & SW 18 St	Water Main	6-inch	9/6/2020	666290	Bayview Drive & NE 37 Street	Water Main	16-inch	11/10/2020	690231	813 SE 2 Street	Service Line	16-inch
2/3/2020	587313	100 S Birch Rd	Water Main	10-inch	5/13/2020	620780	700 NW 19 Ave	Valve	6-inch	9/11/2020	666290	NE 2 Court & NE 16 Terrace	Water Main	4-inch	11/10/2020	690880	2828 Riverland Road	Water Main	8-inch
2/3/2020	587996	NE 1 St between NE 12th and 13th Ave	Water Main	6-inch	5/16/2020	623728	777 Bayshore Drive	Water Main	6-inch	9/12/2020	666590	Hendricks Isle	Water Main	6-inch	11/11/2020	691687	NE 34 St & NE 33 Ave	Water Main	6-inch
2/8/2020	589576	South Fork New River	Water Main	16-inch	5/16/2020	623735	525 SW 20 Ave	Water Main	6-inch	9/12/2020	666705	231 SW 2 Ave - New River Inn Museum	Water Main	6-inch	11/12/2020	691855	Harbor Dr & A1A	Water Main	8-inch
1/10/2020	590310	Bayview Dr & NE 25 Ct	Water Main	10-inch	5/20/2020	623735	SE 6 thru 7 St between SE 1 & 3 Ave	Water Main	16-inch	9/13/2020	666705	SW 3 Ave & 2 St	Water Main	6-inch	11/16/2020	693722	N. Birch Rd & E. Las Olas Blvd	Water Main	6-inch
2/17/2020	592112	SE 11 Street & Cordova Rd	Water Main	6-inch	5/20/2020	623735	SE 2 Ct between SE 9 Ave & SE 10 Ter	Water Main	6-inch	9/20/2020	666814	1700 SE 25 Avenue	Water Main	6-inch	11/16/2020	693722	17 Street Ramp (2436 SE 17 St)	Water Main	10-inch
2/17/2020	592112	800 E Broward Blvd	Water Main	6-inch	5/20/2020	624415	811 Cordova Road	Water Main	6-inch	9/22/2020	667440	SW Flagler Avenue & SW 5 Street	Water Main	6-inch	11/25/2020	690002	NE 19 St & NE 17 Ter	Water Main	6-inch
2/17/2020	592112	SE 8 Ave & E Broward Blvd	Water Main	6-inch	5/27/2020	624415	1528 SE 11 St	Water Main	6-inch	9/23/2020	667440	1250 Middle River Dr	Water Main	6-inch	11/25/2020	690002	1700 SE 25 Avenue	Water Main	12-inch
2/28/2020	597032	NW 2 Ave & NW 7 St	Water Main	8-inch	5/29/2020	628063	1701 NE 4 Ave	Water Main	6-inch	9/25/2020	667440	Bayshore Dr between Tarramar St & Viaduct St	Water Main	10-inch	11/25/2020	690002	1700 SE 25 Avenue	Water Main	12-inch
3/2/2020	597532	SE 10 Ave & SE 10 St	Water Main	8-inch	6/4/2020	629017	2237 SW 14 St	Water Main	6-inch	9/26/2020	667440	Broward Blvd & SE 1 Ave	Water Main	6-inch	11/30/2020	701136	NE 26 Street & US-1	Water Main	6-inch
3/2/2020	597446	SE 14 Ct & US 1	Water Main	6-inch	6/10/2020	631864	Cordova Road, SE 7, SE 8, & SE 9	Valve	6-inch	9/30/2020	667440	1700 SE 25 Avenue	Water Main	6-inch	12/3/2020	703093	2090 NE 55 Ct	Water Main	8-inch
3/5/2020	599332	SW 27 Ave & 9 St	Water Main	8-inch	7/11/2020	643403	Royal Palm Drive & Las Olas Blvd	Water Main	6-inch	10/4/2020	667440	N. Andrews Ave between NE/NW 4 St & NE/NW 6 St	Water Main	6-inch	12/3/2020	703093	2090 NE 55 Ct	Water Main	8-inch
7/11/2020	611400	Bayshore Dr & Tarramar St	Water Main	6-inch	7/14/2020	644343	0303 & 0303 Powerline Rd (NW 9th Ave)	Water Main	6-inch	10/5/2020	666144	1700 SE 25 Avenue	Water Main	6-inch	12/8/2020	703442	1530 NW 3 St	Water Main	6-inch
4/7/2020	611400	1039 NW 11 Court	Water Main	6-inch	7/14/2020	644261	301 E Sunrise Blvd	Water Main	4-inch	10/16/2020	667440	1520 S. Ocean Drive	Water Main	6-inch	12/14/2020	707422	Middle River Dr & Fryer point	Water Main	6-inch
4/8/2020	611969	1409 NW 6 St	Water Main	4-inch	7/24/2020	644261	Coconut Island Bridge	Water Main	8-inch	10/16/2020	679522	SW 8 Ave and 11 Ct	Service Line	2-inch	12/15/2020	108872	Hector Park (1001 SE 11 St)	Water Main	6-inch
4/16/2020	587437	612 Bayshore Dr	Water Main	6-inch	7/27/2020	644261	30 S Federal Hwy (Fairfield Inn)	Fire Service	4-inch	10/17/2020	680556	SW 8 Ave and 11 Ct	Water Main	8-inch	12/15/2020	708872	1010 SE 11 St	Water Main	8-inch
4/16/2020	587437	Castle Harbor Isle Dr, NE 42 Ct & NE 34 Ave	Water Main	6-inch	8/17/2020	653984	624 Isle of Palm Dr	Water Main	6-inch	10/20/2020	680556	NE 9 Street & N. Birch Road	Water Main	8-inch	12/16/2020	709200	2223 NE 33 Ave	Water Main	6-inch
4/24/2020		NE 7th Avenue between NE 7 & NE 8 Street	Water Main	6-inch			524 & 543 NE 11 Ave	Water Main	6-inch	10/23/2020		1200 E. Las Olas	Water Main	10-inch					

Total Force Main Breaks by Month (2020)

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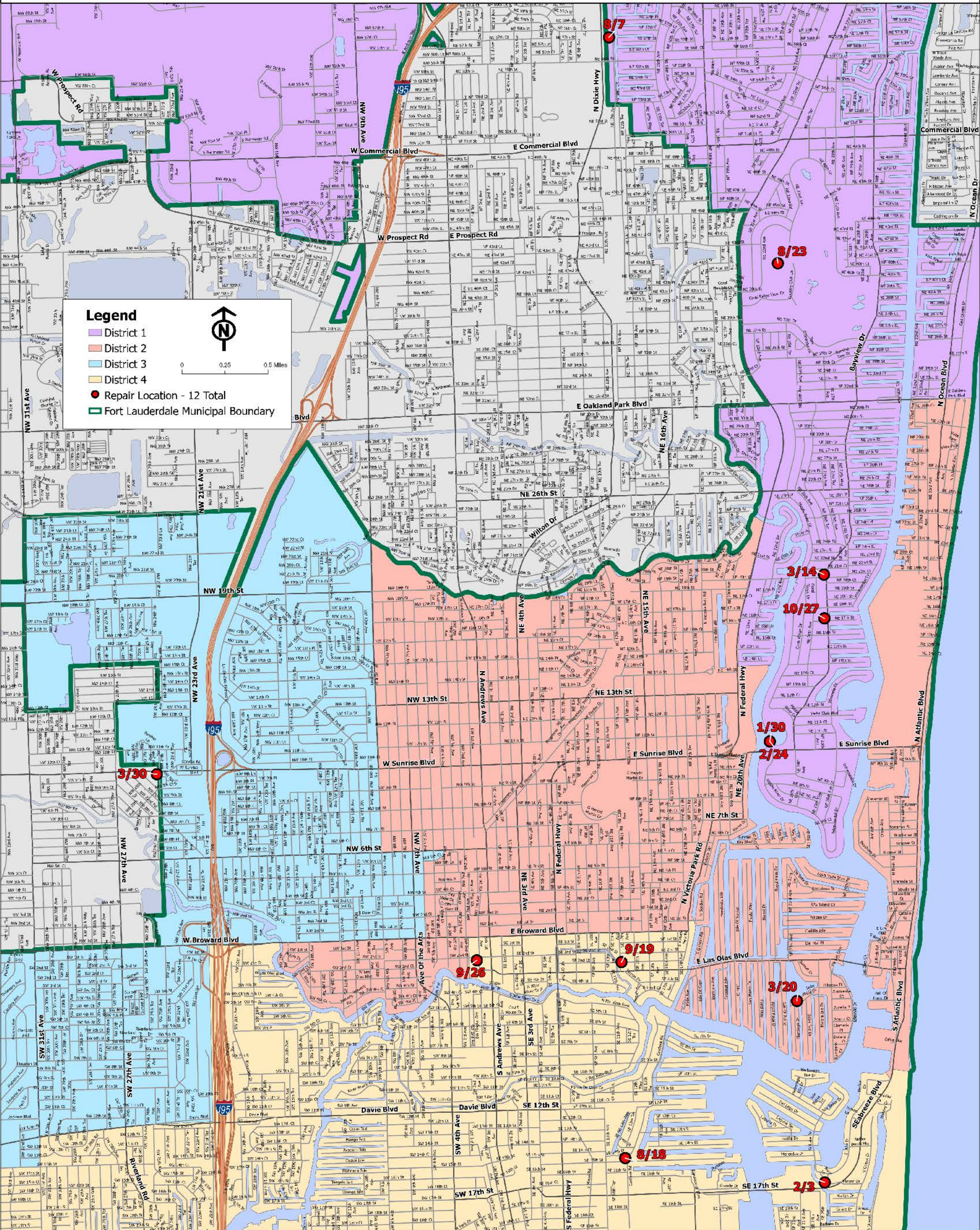




CITY OF FORT LAUDERDALE

FY 2020- Locations for Sewer Force Main Breaks

GIS
Fort Lauderdale



Date of Break	Q-Alert#	Address	Type	Size	Cause	Volume (Ga)	SSO Issued
1/30/2020	586291	1101 Bayview Drive	Force Main	42"	Age of pipe	79,320,000	Y
2/3/2020	587327	1660 River Lane	Force Main	4"	Age of pipe	500	N
2/24/2020	594798	1101 Bayview Drive	Force Main	14"	Broken pipe	20,520,000	Y
3/14/2020	602845	NE 21 Street & Bayview Drive	Force Main	12"	Broken pipe	18,225	Y
3/20/2020	605815	Riviera Isle Dr. & Solar Plaza Dr.	Force Main	6"	CIP age, deteriorated	300	N
3/30/2020	608563	NW 24 Ave. & NW 9 Pl. (aka: 2400 Sunrise Blvd)	Force Main	12"	AT&T driller board into pipe	500	N
8/7/2020	653691	5711 NE 14 Ave.	Force Main	8"	Valve leaking	500	N
8/18/2020	658335	Cordova Rd. & SE 15 St.	Force Main	16"	Holes in bottom of pipe	116,500	Y
8/23/2020	659803	3801 Bayview Dr. (Coral Ridge Country Club Golf Course)	Force Main	24"	3/8-inch corp. torn off	19,528	N
9/19/2020	669120	1203 SE 2 Court - Himmarshee Canal	Force Main	16"	2" PVC riser broken	65,204	Y
9/26/2020	671423	203 SW 1 Avenue & SW 2 Street	Force Main	12"	Age	182,847	Y
10/27/2020	684208	Bayview and NE 17 Street	Force Main	16"	Pipe broken in lift station	4,000	N