



DRAFT
MEETING MINUTES
CITY OF FORT LAUDERDALE
INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE
VIRTUAL MEETING

CITY OF FORT LAUDERDALE MONDAY, FEBRUARY 1, 2021 – 2:00 P.M. TO 5:00 P.M.

February 2021-January 2022

Attendance

Marilyn Mammano, Chair	P	1	0
Gerald Angeli	P	1	0
Shane Grabski	P	1	0
Charlie Ladd	P	1	0
Michael Marshall	P	1	0
Peter Partington	P	1	0
Jacquelyn Scott	P	1	0
Roosevelt Walters	P	1	0
Ralph Zeltman	P	1	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
D'Wayne Spence, Assistant City Attorney
Jerry Jean-Philippe, City Moderator
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 2:03 p.m.

ii. Approval of Agenda

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

iii. Approval of Previous Meeting Minutes January 4, 2021

Motion made by Mr. Walters, seconded by Mr. Partington, to approve.

Ms. Daniel advised that the budget expenditure report presented at the January 4, 2021 meeting had included an error:

- P. 3, paragraph 3: change \$31 million to \$14 million

Mr. Partington also noted the following correction:

- P. 8, paragraph 3: change first sentence to “The Commission has heard input from the public suggesting that the system has sufficient capacity, but cannot accommodate greater flow through the pipes.”

In a voice vote, the **motion** passed unanimously [as corrected].

2. General Discussion and Comments by Committee Members

Mr. Partington recalled that the City had applied for a federal grant for stormwater improvements which, if successful, could be used in lieu of the \$200 million bond funding for a number of projects. Dr. Nancy Gassman, Assistant Director of Public Works (Sustainability), clarified that the application to which Mr. Partington had referred is for an infrastructure loan program at the federal level, which would permit the City to apply for a low-interest loan for the \$200 million. This loan would supplant bond funding and offer an interest rate of 0.5% to 1% lower than the bond, which would result in significant savings and prevent further entry into the bond market.

Mr. Walters asked if the same restrictions would apply to the loan as to the bond. Dr. Gassman advised that the guidelines are likely to be different, although she did not have further details at hand. The City has not yet been approved for the loan program. Mr. Walters explained that his concern was that the funds be used for specific purposes: if no restrictions apply, the funds could be used for other projects than stormwater improvements. Dr. Gassman advised that it is the City’s intent to use these funds in support of the Stormwater Master Plan.

Chair Mammano requested that a discussion of alternative funding for phase two of the Stormwater Master Plan be included on the following month’s Agenda.

3. Public Comments

None.

4. Old Business

i. Continued Discussion on Developing Moratorium

Resolution Statement – *To evaluate and provide a recommendation on the feasibility and impact of implementing a moratorium on the acceptance of an application for or issuance of a development permit within the City.*

Chair Mammano explained that she had requested the inclusion of the Committee's Resolution Statement on the Agenda. She emphasized that the Committee should remain focused on fulfilling this aspect of its mission. She has created a draft document that proposes an outline for an eventual report to be provided by the Committee to the City Commission.

Chair Mammano briefly reviewed the draft document for the Committee members, noting that it includes the following sections:

- Executive summary and recommendations
- Brief background on the earlier incarnation of the Committee, including the results of its previous recommendations
- Additional charge to review the public-private partnership (P3) approach to the Fiveash Water Treatment Plant

Chair Mammano continued that the current Infrastructure Task Force Committee (ITFC) is intended to have an 18-month lifespan. Its intent is to continue the earlier mission as well as its additional mission of evaluating and providing recommendations. Meetings planned from March 2020 to August 2020 were not held due to the COVID-19 pandemic. Since the resumption of meetings in August, the Committee has:

- Monitored the City's progress on the Consent Order, including pump stations, inflow and infiltration (I&I), Capital Improvement Program (CIP) projects, and Enterprise Funds
- Monitored progress on planning products, including the asset management plan, the Comprehensive Plan prepared by consultants Hazen and Sawyer, force main conditions, and risk analysis

Chair Mammano advised that while the Committee has continued to meet, the City has made significant progress on these issues. She recalled that the Committee has seen recent reports on fire hydrant maintenance/testing as well as valve maintenance and other improvement programs. The City is also mapping sewer line breaks. A water distribution system study is currently underway. The Parks Bond is also being implemented at this time, with community input provided through online public meetings. A number of phase two projects identified by Hazen and Sawyer have been added to the Consent Order. In addition, the Consent Order has been amended based upon sewer breaks.

Chair Mammano continued that thus far, the Committee has made the following determinations:

- Capacity is not an issue
- Several distribution projects are underway via the Consent Order or CIP
- Condition of infrastructure remains an issue, as some parts of the system have been identified as high-risk
- More transparency on impact fees may be necessary

The Chair advised that the Committee may need to make a recommendation at the end of its 18-month lifespan in addition to its additional mission. This may include providing the City Commission with a final report, or making recommendations about how the City should proceed on some issues in the future, possibly in conjunction with another advisory body. She concluded that the Committee may wish to consider her document as “a stepping-off point” to discuss how to arrange and present the information the Committee has gathered. Chair Mammano concluded that any final document should come with a comprehensive appendix, including maps and other backup materials provided by the City.

Mr. Partington noted that the report provided to the City Commission by the earlier iteration of the Committee had been brief and concentrated, and recommended that any subsequent report also be relatively short. He added that the Committee has not specifically asked the Commission to consider a moratorium. Other issues included funding and overall finances, which he did not feel the Committee has fully considered in relation to the progress report submitted by Hazen and Sawyer.

Mr. Ladd observed that the Committee should consider the possibility of implementing a moratorium versus overall repair of the system, including a major trunk line.

Mr. Zeltman stated that in its first year, the previous Committee went through a similar process, which resulted in an outline of the objectives to be achieved according to the Committee’s governing Ordinance. He had also created a chart tracking the progress of a number of projects. He suggested that these tools could be used to better organize and define the various projects and infrastructure needs the Committee has addressed.

Mr. Partington agreed that an outline could be useful, but pointed out that that Assistant City Attorney D’Wayne Spence was present to assist the Committee in its understanding of what a moratorium might mean. He proposed further discussion of this nature. Chair Mammano recommended that Attorney Spence attend the next scheduled meeting as well to provide input on this discussion.

Mr. Partington requested his input on whether or not adequacy findings can be based on a condition analysis with a subjective element. Attorney Spence advised that a subjective element would raise questions of due process and equal protection of all developments. Standards should be objective when determining whether a system has adequate capacity to accommodate proposed development.

Chair Mammano commented that Hazen and Sawyer's report ranks the risk of infrastructure based on a number of factors, including age, materials, salinity of surrounding soil, and other considerations. These were considered to have a subjective element because the consultant did not, in all cases, physically study the pipes: instead they used the aforementioned criteria as surrogates in assisting them with the determination of a pipe's risk of failure. Attorney Spence, in response to a question regarding whether or not adequacy findings can be based on a conditional risk analysis of the infrastructure, stated that such a basis for denial of a development permit would give him pause due to the lack of expert testimony or affidavits. Based on the Committee's representations, the content of the Hazen and Sawyer report would not be sufficient.

Ms. Daniel clarified that Hazen and Sawyer have attached their signature(s) to their report, which includes criteria such as age and materials used to determine the state of the infrastructure. Another part of the consultants' process was having a company go into the field with above-ground equipment to determine additional information about the infrastructure. Chair Mammano requested that this report be provided for Attorney Spence to review.

Mr. Partington asked if it would be possible to implement a moratorium within a definite time frame, such as four to six months, during which development is halted while intensive analysis is conducted to revise adequacy estimates. This would provide the City with enough time to review the issues the Committee had cited during the discussion. Attorney Spence advised that while this could conceptually be done, he would prefer to see additional direction for adequacy review implemented by Ordinance, as legal challenges from the development community are likely to arise.

Paul Chettle, member of the public, stated that the City has both wastewater capacity problems and condition problems with regard to its infrastructure. He cited examples from the Asset Management/Capacity Management, Operations, and Maintenance (AM-CMOM) report discussed at a previous meeting, which identified a number of pump stations that did not meet groundwater or elevation criteria, as well as sewer basins that did not meet I&I criteria. Many of the facilities that do not meet these criteria are located in or near Fort Lauderdale's Downtown Regional Activity Center (RAC), where significant new development is underway.

Mr. Chettle continued that seven pump stations are identified as likely to fail, while another 31 were determined to need immediate replacement and 22 are more than 50 years old. 44 stations were determined to have a high likelihood of failure. Another 18 force mains are over 50 years old and 10 have experienced two or more breaks in the last five years, with another 75 deemed to be in severely corroded condition. He concluded that capacity and condition go hand-in-hand: if one of the two is failing or does not meet basic criteria, it will have a negative effect on the other. Mr. Chettle strongly emphasized that capacity is tied to condition.

Mr. Partington asked how Chair Mammano felt the Committee should progress using her draft document. Chair Mammano replied that as the document has been shared at today's meeting, it is now a public document and copies can be provided to all members. She stated that the Committee will continue to discuss the document at subsequent meetings until they arrive at a final resolution. She anticipated that a workshop between the Committee and the City Commission may be scheduled in the future to discuss a final report or other options.

Ms. Scott observed that she would like to further discuss sidewalks and other infrastructure in the future. Chair Mammano recalled that the previous iteration of the Committee had conducted workshops with residents in the City's different districts, and roads and sidewalks were the number-one issue raised by the public. She requested that this topic be a separate Agenda Item in the future.

ii. Impact Fees Allocation Report

Ms. Ricketts informed the Committee that the Mayor and City Clerk sent a letter on January 4, 2021, thanking former Committee member Norman Ostrau for his service. His seat on the Committee has not yet been filled.

Ms. Daniel addressed the Impact Fee Allocation Report, recalling that this topic was discussed at the January 2021 meeting. She explained that the City's activity is within the guidelines established by Florida Statutes, which ensure that City projects are reasonably connected to or have a rational nexus with impact fees, capital facilities, or system expansions.

The report shows impact fee revenue received over the last two years. In 2019, \$4.6 million was generated for capital expansion or impact fees, with \$3.5 million in 2020. No corresponding projects are listed for those years because impact fee revenue is not measured on a one-to-one basis; however, over \$10 million worth of projects took place in 2019 and \$9 million in 2020.

Eligible projects were funded through the City's line items 452, 453, and 454, which include water and sewer fees as well as Enterprise Funds. In 2020 the impact fees were segregated so the City can determine how much money came from water or sewer fees.

Chair Mammano noted that in 2019, the City collected \$4.6 million in impact fees and spent significantly more than this on various projects. The manner in which funds move from impact fee collection into funding for specific projects was not broken down. Ms. Daniel reiterated that a number of these dollars came from other sources than impact fees, with no one-to-one ratio on how they will be spent in 2019. She further clarified that when impact fees are appropriated for a project, that funding is not broken down by revenue stream or fund. In 2019, over \$10 million in projects were funded using City

Enterprise Funds. In 2020, these funding streams are broken out more effectively to show how much funding from impact fees goes toward water or sewer projects specifically.

Ms. Daniel continued that Staff has had internal discussions regarding whether or not these dollars should be tracked differently in the future to have a true accounting of how they are being spent. Chair Mammano recalled that there has been action at the state legislative level which seems to be leading toward a requirement that impact fees must be shown in direct relation to projects.

Chair Mammano continued that while the information provided on impact fees clarifies how much money is brought in, there seems to be no way to track where these dollars specifically go, other than the assurance that they are being used for statutorily appropriate projects. Ms. Daniel advised that only projects with some sort of reasonable connection or nexus to these dollars are funded through impact fees. She reiterated that while there may be no a direct connection between projects and funds, over \$10 million worth of projects in 2019 were eligible for funding through impact fees. She pointed out that impact fees are not always spent in the same year in which they are received.

Mr. Partington commented that most City Commission Agenda meetings include a budget amendment item by which dollars are moved from one fund or line item to another. He asked if it would be possible to develop a similar system for the use of impact fees, with capital expenditure/impact fee dollars in one fund until a project that will use these dollars is brought forward via a budget amendment. Ms. Daniel replied that Fort Lauderdale does not use this method. She noted that Staff can continue to work toward identifying a better way to label these funds with complete transparency and show exactly which projects use impact fee dollars.

Mr. Marshall asked if in addition to a list of projects funded through impact fees, the Committee might see a list of which developments paid impact fees in a given year. Ms. Daniel stated that she did not have this type of list, but could reach out to the Department of Sustainable Development for this information.

5. New Business

i. I&I Water & Sewer Bond Expenditures Summary

Ms. Daniel referred the members to this summary document, explaining that it includes the \$200 million bond as well as approximately \$4.5 million in interest for that bond. As of January 20, 2021, 51% of I&I water and sewer bond dollars have been spent to date. The summary of expenditures shows actual dollars spent through January 20, as well as encumbrances and balances and the status of funded projects.

Chair Mammano noted that the \$205 million total on this document differs from the total of \$255 million reflected in a different document. Ms. Daniel advised that the \$205

million includes bond-funded dollars only; however, at the January meeting, the Committee had asked for more information regarding the status of Consent Order projects, which use both bond and water/sewer funds.

Chair Mammano asked if the \$255 million also reflects overages and underages on projects, as well as projects added during phase two of the Consent Order that were not included in the original bond. Ms. Daniel stated that she would look further into this issue for clarification.

Mr. Partington observed that the ongoing projects funded through the bond include a number of Consent Order projects as well as projects that use Enterprise Fund dollars. He pointed out that the major north and south redundant force main projects are included on the Consent Order list with allocations of \$24 million and \$35 million; however, these amounts are not consistent with the amounts awarded on contracts for these projects unless dollars from Enterprise Funds are added. Ms. Daniel confirmed that there are a number of projects that use both types of funds. She noted that future spreadsheets can reflect both funding sources for greater clarity.

Chair Mammano commented that the intent of reviewing this breakdown was to determine when the next tranche of bond funding will be needed and which projects will be included in it. She pointed out that 75% of I&I projects have been spent, with more of the funds for these projects already encumbered. There is roughly \$500,000 left to be done in I&I as of 2021. She asked if the City is likely to run out of Consent Order funds to be used toward I&I, leaving these projects to be funded only through Enterprise Fund dollars. Ms. Daniel noted that a budget amendment to be presented at the next City Commission meeting includes I&I projects. Staff constantly reviews and re-prioritizes I&I projects and moves funding so this type of work can continue.

Ms. Daniel continued that although 51% of bond funds have been expended, the City will spend closer to 85% after eligible transfers. They have identified a number of eligible projects for which bond funds can be used. The bond covenant includes language requiring that 85% of these dollars be spent by the three-year mark. The next report of water and sewer bond expenditures is likely to look very different, as eligible expenses are transferred, reaching the 85% target.

Chair Mammano stated that while the bond funds are intended to be spent within the five-year time frame of the Consent Order, CIP funds were also used toward a number of projects. Ms. Daniel noted that the City's published CIP document reflects projects to be accomplished up to five years out, and that bond funds and CIP dollars are separated in this documentation. The line items for bond funds are 495 and 496 and are reflected in the adopted Community Investment Plan under the annual budget. These line items are not reflected past fiscal year (FY) 2023.

Business Operations Manager Kymberly Holcombe further clarified that future tranches of bond funds are included in the Community Investment Plan forecast under line items

495 and 496. Chair Mammano requested that this issue be revisited in greater detail at the next Committee meeting. Ms. Holcombe noted that the plan is available online in spreadsheet form. Chair Mammano asserted that she would like to see this information in a “layperson-friendly” format that can be more easily understood by the public.

Ms. Daniel cautioned that the CIP document will not reflect the information on project status and expenditures to date that the Committee had requested at today’s meeting, although it will show the planning of how much the City expects to spend on projects in current and future years.

ii. Consent Order Project Enterprise Summary

Ms. Daniel advised that the list of completed I&I projects was taken directly from the Consent Order report. Mr. Castellon added that there were six I&I projects in the Consent Order, all of which have been completed. Ms. Daniel clarified that the City is working on other I&I projects not included in the Consent Order.

Ms. Daniel continued that the summary provided to the Committee members shows \$24.4 million for Consent Order projects. \$18 million has been spent thus far, with nearly \$5.5 million left in encumbrances and a balance of \$530,000 remaining. While the I&I projects included in the Consent Order have been completed, some additional work remains that is tied to these I&I projects.

iii. I&I Program Summary Report

This Item was discussed under Item 5.i, I&I Water and Sewer Bond Expenditures Summary.

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

7. Information

ii. Redundant Force Main Update

Chief Engineer Omar Castellon reported that at present, work on redundant force mains is approximately 80% complete. The contract is scheduled to end in mid-July 2021. It is hoped that the new force main project, which involves roughly 32,130 ft. of new underground pipe, will be finalized before June 2021. The portion of pipe that has been bypassed will be relined and will become the redundant line. There have been minimal complaints from residents, considering the size of the project.

Mr. Partington asked if previously existing alignments will be relined once flow has been moved over into the new force main, making the previous alignment into the redundancy. Mr. Castellon confirmed that this is the plan. Funds have not yet been set aside for relining of the previously existing pipe.

Chair Mammano asked if it would be accurate to state that “every other force main in the City” connects to the trunk line. Mr. Castellon confirmed this as well, noting that some mains will need to be re-routed in order to connect to this line.

Mr. Zeltman requested clarification of why a section along Bayview Drive south of Oakland Park Boulevard has been blocked off for approximately six months. Mr. Castellon replied that this area includes a point of connection at which significant debris coming from pump stations has resulted in delays.

Mr. Marshall commented that the maintenance of traffic (MOT) plan near his residence has been poor to nonexistent, resulting in dangerous situations in that area. He recommended additional scrutiny be given to these plans in the future.

Dr. Gassman advised that the City decided to use pulling technology on the redundant force main project in order to minimize the number of locations affected with open cuts. While this has resulted in inconvenience at certain locations, use of different technology would have resulted in the entire length of streets being cut open for a significant time, creating significantly greater traffic challenges in those areas.

Chair Mammano asked if the old collector line would be able to serve as a bypass in emergencies once it has been relined. Mr. Castellon confirmed this, adding that funds for this relining project will be in the next tranche of bond funds.

6. Public Works Update

i. Water & Sewer Breaks Report 2020 w/Mapping

Ms. Daniel reviewed the provided maps, pointing out that they include both water main and sewer main breaks from January through December 2020. These totaled 87 breaks, of which the majority were in 6 in. lines. Utilities Distribution and Collection Systems Manager Rick Johnson added that a month-by-month review of breaks shows that these began to decline in December; the three months with the highest number of breaks were September through November. There did not seem to be any correlation between colder weather and breaks.

Mr. Ladd asked if any of the breaks might be associated with the work underway in the Victoria Park neighborhood, or with the extreme high tides and rainfall events in autumn 2020. Mr. Johnson advised that there appears to be some correlation of breaks with tidal events as well as ongoing work in the Victoria Park area. A number of breaks occurred in the Cordova Road area, where a City seawall project is underway.

Chair Mammano asked if an assessment is available of the condition of pipes where most of the 2020 water main breaks occurred. Mr. Johnson replied that current American Water Works Association (AWWA) standards recommend a minimum pipe

size of 8 in., while most of the pipes affected in 2020 were 6 in. cast iron pipes. Most of the breaks occurred in areas that experience tidal influence as well.

Mr. Johnson continued that when Staff responds to a water main break, they do not always classify the break correctly: for example, what may be originally classified as a water main break may actually be a service line, valve, or other equipment. Correct classification in work orders provides more accurate data. This is the goal when responding to future breaks.

Mr. Johnson continued that the City has upcoming projects on Breakers Avenue as well as mains in the central beach area. All existing mains are cast iron and undersized in relation to the needs of incoming development. Mr. Zeltman commented that saltwater intrusion affects the condition of these pipes through both tuberculation and external deterioration.

Chair Mammano observed that residents in these areas may wish to know why any new development would be allowed there when the existing system is already under significant stress and will require upgrades in the near future. Mr. Johnson stated that recent projects coming online are being asked to make improvements to the infrastructure so they can receive their Certificates of Occupancy (COs) without any further issues. This does not, however, mean that these developments would make improvements to any infrastructure not directly serving those properties.

Ms. Daniel moved on to sewer breaks, stating that there were 12 events in 2020, six of which resulted in sanitary sewer overflows (SSOs). Various sizes of pipe were affected by these breaks. There does not appear to be a seasonal correlation.

Chair Mammano suggested creating an overlay of the map of sewer breaks with the infrastructure deemed likely to fail by the Hazen and Sawyer report. Ms. Daniel noted that Staff worked with Hazen and Sawyer to identify these areas.

7. Information

i. Capacity Flow for New Development

Igor Vassiliev, Project Manager II, advised that there was no new information to provide at this time.

Mr. Partington stated that he hoped Staff was giving consideration to the issue of infrastructure condition with regard to adequacy analysis. Mr. Vassiliev confirmed this, stating that while this consideration is not necessarily reflected in capacity letters provided for developments, it is part of the analysis. Mr. Partington continued that he would recommend providing the City Commission with a copy of the spreadsheet shown at the January 2020 meeting, which keeps track of all ongoing projects, when providing the Commission with approval packages for developments.

Chair Mammano commented that she felt the consideration of condition with regard to capacity consisted primarily of general information and knowledge about the City's systems rather than more rigorous review based upon risk analysis. She asked if there have been any changes to this consideration that would provide a more comprehensive rather than a general review. Mr. Vassiliev reiterated that consideration of infrastructure condition is not typically reflected in the capacity letters.

Chair Mammano recalled that previous discussion of water supply by the Committee included references to significant problems with the condition of pipes along a section of the Fort Lauderdale Beach. She asked if Staff would have this information at hand when asked to review capacity for projects in this area, particularly if there are no CIP projects planned to address this condition, as well as whether or not they would include that information in a capacity letter.

Mr. Vassiliev reiterated that references to condition may be included in capacity letters on a case-by-case basis. It is dependent in part on what type of project is being approved and the demands it can be expected to put on existing systems. Because maintenance of infrastructure is the City's job, not a developer's, most of this responsibility falls to the City.

Mr. Partington advised that he felt the City's adequacy letters should follow a more standardized format, with a standard sentence or paragraph addressing condition of infrastructure and any explicit requirements related to this condition. He reiterated that all capacity letters should include the City's spreadsheet reflecting all ongoing developments.

Mr. Ladd stated that his experience has been that Staff is very sensitive to the need to prevent any issues arising from lack of sufficient capacity, and they are taking the proper steps to ensure that the needs of new development are met. He pointed out that the City has invested millions of dollars in its infrastructure over the last ten years, and that many of these improvements were partially funded through private development.

8. Adjournment – Next Regular Meeting TBA

There being no further business to come before the Committee at this time, the meeting was adjourned at 4:30 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.]



DRAFT
MEETING MINUTES
CITY OF FORT LAUDERDALE
INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE
VIRTUAL MEETING

CITY OF FORT LAUDERDALE MONDAY, MARCH 1, 2021 – 2:00 P.M. TO 5:00 P.M.

<u>February 2021-January 2022</u>		<u>Attendance</u>	
Marilyn Mammano, Chair	P	2	0
Gerald Angeli (arr. 2:38)	P	2	0
Shane Grabski	P	2	0
Charlie Ladd	A	1	1
Michael Marshall	P	2	0
Peter Partington	P	2	0
Jacquelyn Scott	P	2	0
Roosevelt Walters	P	2	0
Ralph Zeltman	P	2	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
Pauline Ricketts, Senior Administrative Assistant
Juan Rodriguez, Department of Transportation and Mobility
Crysta Parkinson, Recording Secretary, Prototype, Inc.

Communication to the City Commission

Motion made by Mr. Partington, seconded by Mr. Angeli, that the Infrastructure Task Force Committee requests that the City Manager and City Commission use any designated CIP funds that become available as the result of surtax funding be repurposed for other transportation projects. In a voice vote, the **motion** passed unanimously.

1. Call to Order

i. Roll Call

Chair Mammano called the meeting to order at 2:02 p.m. and roll was called.

ii. Approval of Agenda

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

iii. Approval of Previous Meeting Minutes February 1, 2021

Mr. Partington noted the following corrections/clarifications:

- P.4, paragraph 3: in the final sentence, replace “they” with the Committee
- P.5, paragraph 1: add “if” after “Attorney Spence stated that...”
- P.6, paragraph 7: add the word “fees” following “impact”
- P.7, paragraph 3: remove “accounting”
- P.9, paragraph 7: clarify “It is hoped that the *new force main* project”; also, the total length of the new line is 32,130 ft.

Mr. Zeltman recommended contacting Assistant City Attorney D’Wayne Spence for clarification of his comment on p.5 regarding expert testimony.

Motion made by Mr. Partington, seconded by Mr. Zeltman, to defer [approval of the February 1, 2021 minutes] until the next meeting. In a voice vote, the **motion** passed unanimously.

2. General Discussion and Comments by Committee Members

None.

3. Public Comments (At Each Item)

None.

4. Old Business

i. Continued Discussion on Developing Moratorium

Resolution Statement – *To evaluate and provide a recommendation on the feasibility and impact of implementing a moratorium on the acceptance of an application for or issuance of a development permit within the City.*

Chair Mammano noted that there is no additional information related to discussion of a moratorium on today’s Agenda. Deputy Director of Public Works Aneisha Daniel advised that no representative of the City Attorney’s Office is present at today’s meeting to assist with discussion of this Item.

Mr. Partington asked if there is any consensus from the Committee to bring forward a report related to the possibility of a moratorium. Chair Mammano observed that a Work Plan discussion is on today’s Agenda, and discussion of a report or consensus might be

better postponed until that Item so it can be discussed in context with other issues to be addressed by the Committee.

ii. CIP Forecast (Line Items 495 & 496)

Ms. Daniel recalled that at the February Committee meeting, there had been a suggestion that some Staff reports might be revised to make them more user-friendly. This effort will take some time, as the Public Works Department's operating and Community Investment Plan (CIP) budgets are due in March and currently take priority. She provided the Committee with a working document used in budget development, which includes information on the next tranche of bond funding.

The draft budget document provided to the Committee reflects the next tranche of water and sewer bond funds, including approximately \$38 to \$39 million for the City's central region. Ms. Daniel emphasized that this is a work in progress used toward the development of the next five-year CIP, which extends from fiscal year (FY) 2022 to FY 2026. The document is subject to change after meetings with the City's Budget Office and City Manager.

Chair Mammano asked for clarification of transferable funds. Ms. Daniel advised that there are eligible expenditures on projects in the water and sewer fund, as well as in the central region, for which City enterprise fund dollars were used; however, these projects are eligible for use of bond funds. Once a transfer is approved, the City may transfer bond dollars into the enterprise funds and use them for other projects.

Mr. Walters emphasized the importance of retaining full transparency throughout the process of moving money from one fund to another and ensuring that the Committee and other interested parties understand what is involved with this process. Ms. Daniel explained that Staff must identify each eligible project on which bond funds are used, and the bond council must approve the use in order to make the transfer. When this transfer is complete, the City will meet its requirement of 85% expenditure, or \$174 million, of the tranche of bond funds.

Ms. Daniel noted that while 15% of bond funds will remain unspent after the transfer, the City has been given additional time in which to expend these dollars.

Mr. Angeli joined the meeting at 2:38 p.m.

Mr. Partington asked if there are any Consent Order projects listed on the spreadsheet for the second tranche of \$200 million. Ms. Daniel advised that she would update the Committee on this at the next scheduled meeting after Staff further reviews the CIP budget. She reiterated that after Public Works submits its CIP and operating budgets on March 3, multiple meetings will be held throughout the budget process until the budget is adopted in September 2021.

Ms. Daniel recalled that a question had been asked at the February Committee meeting regarding a list of developments that have paid impact fees. She has requested a copy of this list from the Department of Sustainable Development (DSD) and will forward it to the Committee members when it is available. While the City's methodology ensures that these dollars are used toward eligible projects, there is no one-to-one accounting that breaks down how much of a given impact fee goes to any one specific project in the CIP.

Mr. Partington observed that there should be an easier way to trace the use of these funds. Ms. Daniel replied that Staff plans to meet with the City's Budget Office, as well as the Finance Director and Auditor, to determine if the process should be modified to more easily demonstrate compliance.

iii. Hazen & Sawyer Infrastructure Risk Map and Sewer Breaks

Ms. Daniel advised that consultant Hazen and Sawyer has created an overlay map of pipe breaks onto their risk analysis map. While the current map covers only 2019, the City will be able to provide an overlay of 2020 breaks at a later date.

The Committee discussed the overlay, noting a cluster of breaks in an area identified as having a high likelihood of failure. Patricia Carney, representing Hazen and Sawyer, stated that north and south sections of redundant lines are located in this area. She identified projects in this area that have been added to the Consent Order and are either underway or complete.

Ms. Carney continued that in addition to the 2019 breaks shown on the overlay, the current Consent Order is also dealing with a number of breaks that occurred prior to 2019, on which construction may be either underway or pending. She noted that Hazen and Sawyer's data goes back to 2016, and may be used to update the map so it is more comprehensive. Ms. Daniel added that CIP projects can also be added to the overlay to provide a fuller picture of projects that correspond to areas with breaks and high likelihood of failure.

Chair Mammano suggested that the overlay could also show projects that are and are not currently funded. Mr. Partington proposed regular updates of the map in order to show any clusters of breaks that may be developing.

5. New Business

i. Transportation Surtax Project

Chair Mammano recalled that when the Committee was created, it was provided with a list of the infrastructure elements it was tasked with reviewing. While the list began with water, stormwater, and sewer projects, it did not originally include a transportation element; however, there have been significant changes since that time, including adoption

of the Broward County transportation surtax as a dedicated source of funding for roads, transit, and other transportation-related projects.

Juan Rodriguez of the Department of Transportation and Mobility explained that he serves as a point of contact between Fort Lauderdale and the Broward County surtax team. The surtax was passed by referendum in 2018. In September 2020, the City entered into an inter-local agreement with Broward County that allows it to participate and receive funding for surtax-eligible projects. The City submitted over 100 applications for various transportation-related needs throughout the City, including repairs to bridges, roads, sidewalks.

The Broward Metropolitan Planning Organization (MPO), in conjunction with Broward County, ranked and evaluated all applications for surtax funding that were submitted by the 31 Broward municipalities. After this ranking was complete, Fort Lauderdale was awarded funding for eight projects totaling \$18 million over the next five years. These included both new construction and repair/maintenance projects.

Since these projects were awarded funding, Broward County has amended its inter-local agreement to stipulate what the surtax program will look like in the future for municipalities that receive funding. The Fort Lauderdale City Commission approved this amendment in January 2021. The amendment outlines when the City can anticipate additional funding, further clarification of annual applications, eligibility criteria, identification of ineligible items, and other specifics of the surtax program as a whole.

Since this amendment was passed by the City Commission, the City may now begin submitting documentation to the County, including final cost estimates and scope for the eight projects, as well as a draft solicitation. Once the County has reviewed these materials, it will prepare a funding agreement for each individual project. When these agreements have been approved by the City Commission as well, the City will receive funding for and may begin work on the eight projects. A list of these projects is included in the Committee members' backup materials.

Mr. Rodriguez further clarified that most of the projects are construction-ready and their funding is available in the current year. Future funding is available for projects that are in the planning or design phases.

Chair Mammano noted that two of the projects listed are bridges for which she understood CIP funding has been set aside. She asked what would become of these funds now that surtax funding will be used instead. Mr. Rodriguez advised that as the surtax projects are funded, the City can reevaluate the funds attributed to that project and allocate them toward other prioritized projects.

Mr. Partington commented that because a number of the City's bridges have been rated structurally deficient, any CIP funds which have been replaced by surtax funds should be used toward transportation projects, such as bridges, within the CIP.

Mr. Walters again emphasized the importance of transparency, and asked if some of the funds returned to the City could be used toward projects that were given lower priority by the City.

Mr. Zeltman recalled that at an earlier time, the Committee had been surprised to learn that monies from the Enterprise Fund were being allocated to non-utilities-related projects, as this was not how enterprise dollars were intended to be used. He hoped to see these monies refunded to the Enterprise Fund now that they have been replaced with Broward County surtax dollars.

Mr. Angeli asked how a given transportation project makes the surtax project list. Mr. Rodriguez explained that the recent amendment passed in January 2021 details the ranking criteria for the annual surtax project application process. Two major criteria address the following:

- Alleviation of traffic congestion
- Creation of new connections, including sidewalks and bicycle lanes

Each application cycle, the City will submit its greatest priorities; however, they do not know in advance how these priorities will rank among submissions by other municipalities.

Chair Mammano noted that Broward County also directly funds a number of transportation projects that are physically located in Fort Lauderdale, which were not submitted by the City. She requested a list or map of County projects.

Mr. Zeltman added that there may be state projects located within the City as well. Mr. Rodriguez explained that of the surtax projects funded each year, only 10% of surtax revenue goes directly to municipality-managed projects. This is why Fort Lauderdale has only eight funded projects rather than several more. Another allocation of surtax funds go toward transit operations across the county, such as community shuttle programs. He estimated that the County will manage 11 to 12 projects within Fort Lauderdale city limits over the next two years. The Florida Department of Transportation (FDOT) is a separate entity and has its own work program and funding, which are not related to County surtax dollars or priorities.

Chair Mammano observed that a comprehensive view of how much money is being spent by the City, County, and state could be helpful in developing any recommendations the Committee may wish to make to the City Commission.

Mr. Marshall commented that he would like to learn more about City projects that are currently in the queue to receive surtax funding, as well as more about the prioritization process and how it is consistent with the City's planning documents, including the Comprehensive Plan.

Chair Mammano noted that the City has had a number of Master Plans in the past, but has never had a comprehensive plan addressing traffic and transportation.

Motion made by Mr. Partington, seconded by Mr. Angeli, that the ITF requests that the City Manager and City Commission use any designated CIP funds that become available as the result of surtax funding be re-purposed for other transportation projects, particularly bridges.

Mr. Partington added that he would like his **motion** to be sent as a communication to the City Commission so it may be considered during budget deliberations.

Chair Mammano suggested that the **motion** not recommend alternate use of CIP funding specifically for bridges, as there may be other transportation projects of equal importance. Mr. Partington **amended** his **motion** to remove the specific reference to bridges.

In a voice vote, the **motion** passed unanimously (as amended).

Mr. Partington asked which entity ultimately makes decisions on use of surtax dollars for Fort Lauderdale projects. Mr. Rodriguez explained that the Broward MPO provides a list of evaluated and ranked projects to the Transportation Surtax Oversight Board, which reviews the list and then sends the projects on to the Broward County Board of County Commissioners. These officials have the final decision after a project has gone through the evaluation and ranking period.

ii. Stormwater Master Plan Funding Alternative

Dr. Nancy Gassman, Assistant Director of Public Works (Sustainability), showed a presentation on the City's \$200 million Stormwater Master Plan implementation, which is seeking funding from the Environmental Protection Agency's (EPA's) Water, Infrastructure, Finance, and Innovation Act (WIFIA) funding program. This program may consider funding up to \$98 million, or 49%, of the total \$200 million through a special low-interest loan. It is considered a better alternative than the bond market, which would apply a higher interest rate and closing costs. The remaining \$102 million would go out to the revenue bond market.

Dr. Gassman advised that the WIFIA program began in 2014. The City has funded other allowable costs through this program in the past and was invited to apply in the current year for WIFIA funding specifically for the Stormwater Master Plan.

Dr. Gassman continued that the City has been innovative in its address of the needs of its stormwater program. They have adopted a hybrid methodology to generate additional funds, which included:

- Moving costs from monthly utility bills to the annual property tax bills
- Beginning the first two of seven projects using a \$70 million line of credit, which will be repaid once the City has secured bonds

- Applying to the state for \$10 million to provide potential funding for the Durrs neighborhood
- Seeking additional grant opportunities

If the City can secure the \$10 million grant for the Durrs neighborhood, this would free up \$10 million in City dollars that can then be reconsidered for other stormwater-related projects.

Mr. Walters requested clarification of the amount the City would seek in bond funding to meet the expectations of its neighborhoods. Dr. Gassman clarified that the \$200 million to which she referred would be specific to stormwater needs, which is a different \$200 million than the second tranche of bond funding previously discussed by the Committee under the CIP budget and infrastructure Agenda Items. The expectation is that within a few years, the City would go out for a second \$200 million bond specifically for stormwater in order to undertake the second phase of the Stormwater Master Planning program, which would target another seven neighborhoods for improvements.

Ms. Daniel further clarified that the City's Finance Director and Staff have been diligent in working with the City's bond council to seek different funding opportunities. If other forms of revenue are available, this Staff will inform the City of these alternatives.

Mr. Partington noted that the needs of the Melrose Park and Melrose Manors neighborhoods were recently brought to the forefront, and asked if securing loan and grant funding would create the opportunity to undertake projects in these areas using stormwater bond funds. Dr. Gassman replied that the City has done an extensive amount of work to address concerns with the existing infrastructure in Melrose Park, and its stormwater engineering group is pursuing a design for improvements in Melrose Manors. While Melrose Manors was intended to be part of the second phase of the Stormwater Master Planning program, the design work for this location is being accelerated in response to recent events.

Dr. Gassman continued that the most up-to-date projections for the seven neighborhoods currently addressed in the Stormwater Master Plan come to roughly \$196 million. Should these programs move forward at a cost less than this projection, some bond funds would be left on the table for potential use to provide improvements in Melrose Manors. If no funds remain, this neighborhood would be included either in the next tranche of bond funding or another source of money would need to be identified, such as the potential freeing up of \$10 million dollars if the City receives this amount in grant funding for the Durrs neighborhood.

Mr. Partington asked if obtaining a lower-interest loan would open the door to the possibility of increasing the size of the \$200 million bond. Dr. Gassman advised that while this is correct, the City has not yet done design work for Melrose Manors and cannot make a reasonable prediction of this neighborhood's costs.

iii. Work Plan Discussion

Chair Mammano recalled that at the February 1, 2021 meeting, she had prepared a proposed outline for a report on the Committee's work. Mr. Zeltman had suggested that this report take the form of a work program, which would show what has been completed in one part of the document and items yet to be completed in another. The proposed work plan shows categories that the Committee has addressed, such as potable water, sewers, stormwater, seawalls, City facilities, and other items included within their mission statement.

Chair Mammano showed the draft work plan document, pointing out that its timeline extends from March 2017 to February 2022, which is the expected lifespan of the Committee. Their mission statement includes consideration of the overall funding of infrastructure in Fort Lauderdale. Items that have already been discussed include:

- Elimination of ROI
- Assessment of stormwater fees
- Grants, loans, federal programs, and other potential funding options
- County surtax capital budget substitutions
- Review of impact fees for water and sewer use
- Consideration of public input

Chair Mammano noted that some of the items listed above were discussed earlier in today's meeting.

The City Commission has requested that the Committee accomplish three goals:

- Opine on whether or not a public-private partnership (P3) was a good idea for the replacement of the Fiveash Water Treatment Plant
- Determine whether or not the City should participate in the C-51 allocation for additional water sources
- Decide whether or not a moratorium on development is necessary

The first two items have already been addressed by the Committee.

Chair Mammano continued that other topics and/or subcategories the Committee has previously discussed include:

- Sewers, including gravity sewers, force mains, and pump stations
- The City's Inflow and Infiltration (I&I) work program
- The Hazen and Sawyer report
- Update of the Reiss report
- The City's asset management plan
- Use of CIP, loan, or bond funds for replacement and rehabilitation of infrastructure
- Storm sewers, including replacement of gravity lines and relining of pipes
- Bond for replacement of the Police station
- Parks funding

- Roads and bridges

Items that have not been comprehensively discussed to date include:

- Seawalls
- Whether the I&I program reduces impact on treatment plants
- Outflows into the Intracoastal Waterway
- Limited study of City buildings and systems
- Replacement of City Hall with a new government center
- Sidewalks and trails

Chair Mammano concluded that any items the Committee has not discussed so far should be addressed between now and February 2022. She reiterated that the draft work program is only for the consideration of the Committee members. Her recommendation was that within the next six months, the Committee should be able to show the City Commission an analysis of what they have discussed, what should continue, and whether or not they have accomplished the goals set for them in their mandate, as well as where to go from here.

The Committee members discussed the draft work plan, with Ms. Scott requesting that further discussion and resolution of the issue of a moratorium be made a priority. Mr. Zeltman noted that a number of items which have already been discussed may require further consideration, and recommended that the members review these items and determine whether previous discussion of them was sufficient or they should be revisited.

Chair Mammano recalled that while roads have been discussed to a degree, the Committee has not addressed other mobility issues, such as alternative modes of transportation. Mr. Marshall advised that he felt these issues were all part of the same transportation infrastructure discussion. Mr. Angeli suggested that the Committee further discuss transportation as a full system, in a similar manner to their previous discussions of water and sewer systems, rather than consideration of roads, bridges, or other individual aspects of the system.

Mr. Partington agreed with Ms. Scott's proposal to further discuss a moratorium on development, pointing out that the current City Commission has emphasized the importance of this decision. He also addressed transportation, noting that many of the City's systems are under the control of other organizations, such as FDOT and Broward County. This limits what the City may be able to accomplish regarding this infrastructure.

Mr. Partington also recommended that the Committee consider providing a summary of the City's infrastructure funding needs across different categories over the next 20 years.

Chair Mammano concluded that the Committee's next meeting will address:

- Review of what has been discussed so far regarding the moratorium, ensuring the Committee has all the information it will need on this topic, and working toward a decision and recommendation

- Scheduling a workshop between the Committee and the City Commission to present the Committee's recommendation on a moratorium, as well as the interim report that Mr. Partington had proposed regarding long-term funding needs

It was determined that the Committee's goal would be to schedule a workshop meeting with the Commission in June 2020.

6. Public Works Update

i. Water & Sewer Breaks Report 2021 w/Mapping

Ms. Daniel recalled that this report provides a list of ongoing water and sewer breaks as they arise. The current report reflects two breaks in the water system in January 2021. There were no wastewater breaks during that time period.

Chair Mammano noted that this report was requested in relation to the Committee's discussion of the plan for water mains, including the areas in which they are breaking and whether these locations should be prioritized for repair/replacement. Ms. Daniel advised that her recollection was that the Committee had wished to see a collective list of all the water and sewer breaks on a month-to-month basis. This had originally been reflected in a spreadsheet, but was later transferred to a map in order to reflect whether patterns of breakage existed in some areas. The next month's report and map will show breaks that occurred in February 2021.

7. Adjournment – Next Regular Meeting TBA

Ms. Daniel advised that a virtual City training session for advisory board and committee members is scheduled for Tuesday, March 30, 2021 at 6 p.m. Any members wishing to participate are asked to RSVP no later than March 22 at 828-5288.

There being no further business to come before the Committee at this time, the meeting was adjourned at 4:28 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.]

General Discussion and Comments by Committee Members

If this bill passes what impact will it have on Fort Lauderdale Impact fees?

Impact Fees: [CS/CS/SB 750](#) (Sen. Gruters) makes several changes regarding impact fees imposed by local governments to fund local infrastructure to meet the demands of population growth. It was reported favorably as amended by the Senate Finance and Tax Committee on March 31 and now moves to the Appropriations Committee, its final committee of reference.

The bill defines the terms “infrastructure” and “public facilities” to specify that impact fees may be utilized only for fixed capital expenditures or fixed capital outlays for major capital improvements. The bill was amended by the committee to add the following to the definition of infrastructure: fire department vehicles, emergency medical service vehicles, sheriff’s office vehicles, police department vehicles, school buses, and the equipment necessary to outfit such vehicles or buses for their official use.

In addition to local governments, the bill requires special districts to credit against the collection of impact fees any contribution related to public facilities. The requirement to credit contributions is expanded to apply to contributions related to all public facilities, rather than only public education facilities under current law. All credits against impact fee collections must be made regardless of any provision in local government or special district charter, comprehensive plan policy, ordinance, resolution, or development order or permit.

The committee revised the requirement for local governments and special districts to credit certain contributions against the collection of an impact fee, in that:

- contributions relating to the improvement of infrastructure must also be credited;
- credits must be applied on impact fees collected for the general category or class of public facilities or

infrastructure for which the contribution was made; and

- credits may not be applied if the local government or special district does not charge and collect an

impact fee for the general category or class of public facility contributed to.

All credits against impact fee collections must be made regardless of any provision in local government or special district charter, comprehensive plan policy, ordinance, resolution, or development order or permit.

The bill provides local governments, school districts, and special districts may only increase impact fees as follows:

- for an increase of not more than 25 percent, the increase must be implemented in two equal annual increments;
- for an increase of between 25 and 50 percent, the increase must be implemented in four equal annual increments;
- impact fees may not be increased by more than 50 percent; and
- impact fees may not be increased more than once every four years.

However, local governments, school districts, and special districts may bypass the prescribed impact fee increase limitations if a proposed increase complies with certain impact fee requirements in current law, including adherence to the rational nexus test.

Additionally, impact fees may not be increased retroactively for a previous or current fiscal or calendar year. The bill's impact fee increase provisions operate retroactively to Jan. 1, 2021.

Finally, the bill revises a current affidavit requirement by providing that a local government, school district, or special district must submit with its annual financial report or its financial audit report an affidavit signed by its chief financial officer attesting that all impact fees were collected and expended in full compliance with the spending period provision in the local ordinance or resolution, and that the funds were expended only for the uses allowed under the statute.

The bill also adds school districts to a list of entities that must report additional information relating to their impact fees charged.

Recap of information related to current procedures for
adequacy of public infrastructure

- A. *Applicability.* The adequacy requirements set forth herein shall be used by the city to evaluate the demand created on public services and facilities created by a proposed development permit.
- B. *Communications network.* Buildings and structures shall not interfere with the city's communication network. Developments shall be modified to accommodate the needs of the city's communication network, to eliminate any interference a development would create or otherwise accommodate the needs of the city's communication network within the development proposal.
- C. *Drainage facilities.* Adequacy of stormwater management facilities shall be evaluated based upon the adopted level of service requiring the retention of the first inch of runoff from the entire site or two and one-half (2½) inches of runoff from the impervious surface whichever is greater.
- D. *Environmentally sensitive lands.*
 - 1. In addition to a finding of adequacy, a development shall be reviewed pursuant to applicable federal, state, regional and local environmental regulations. Specifically, an application for development shall be reviewed in accordance with the following Broward County Ordinances which address environmentally sensitive lands and wellfield protection which ordinances are incorporated herein by reference:
 - a. Broward County Ordinance No. 89-6.
 - b. Section 5-198(l), Chapter 5, Article IX of the Broward County Code of Ordinances.
 - c. Broward County Ordinance No. 84-60.
 - 2. The applicant must demonstrate that impacts of the proposed development to environmentally sensitive lands will be mitigated.
- E. *Fire protection.* Fire protection service shall be adequate to protect people and property in the proposed development. Adequate water supply, fire hydrants, fire apparatus and facilities shall be provided in accordance with the Florida Building Code, South Florida Fire Code and other accepted applicable fire and safety standards.
- F. *Parks and open space.*
 - 1. The manner and amount of providing park and open space is as provided in Section 47-38A, Park Impact Fees, of the ULDR.
 - 2. No building permit shall be issued until the park impact fee required by Section 47-38A of the ULDR has been paid in full by the applicant.
- G. *Police protection.* Police protection service shall be adequate to protect people and property in the proposed development. The development shall provide improvements which are consistent with Crime Prevention Through Environmental Design (CPTED) to minimize the risk to public safety and assure adequate police protection.
- H. *Potable water.*
 - 1. Adequate potable water service shall be provided for the needs of the proposed development. The proposed development shall be designed to provide adequate areas and easements which may be needed for the installation and maintenance of potable water systems in accordance with city engineering standards, the Florida Building Code, and applicable health and environmental regulations. The existing water treatment facilities and systems shall have sufficient capacity to provide for the needs of the proposed development and for other developments in the service area which are occupied, available for occupancy, for which building permits are in effect or for which potable water treatment capacity has been reserved. Capital expansion charges for water and sewer facilities shall be paid by the developer in accordance with Resolution 85-265, as it is amended from time to time. Improvements to the potable water service and system shall be made in accordance with city engineering standards and other accepted applicable engineering standards.
 - 2. *Potable water facilities.*
 - a. If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from design capacity. If there is available capacity, the city shall determine the impact of the proposed development utilizing Table 3, Water and Wastewater, on file with the department.
 - b. If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the development.
 - c. Where the county is the projected service provider, a similar written assurance will be required.
- I. *Sanitary sewer.*
 - 1. If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from the design capacity. If there is available capacity, the city shall determine the impact of the proposed development

utilizing Table 3, Water and Wastewater, on file with the department.

2. If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the proposed development.
 3. Where the county is the projected service provider, a written assurance will be required.
 4. Where septic tanks will be utilized, the applicant shall secure and submit to the city a certificate from the Broward County Health Unit that certifies that the site is or can be made suitable for an on-site sewage disposal system for the proposed use.
- J. *Schools*. For all development including residential units, the applicant shall be required to mitigate the impact of such development on public school facilities in accordance with the Broward County Land Development Code or section 47-38C. Educational Mitigation, as applicable and shall provide documentation to the city that such education mitigation requirement has been satisfied.
- K. *Solid waste*.
1. Adequate solid waste collection facilities and service shall be obtained by the applicant in connection with the proposed development and evidence shall be provided to the city demonstrating that all solid waste will be disposed of in a manner that complies with all governmental requirements.
 2. *Solid waste facilities*. Where the city provides solid waste collection service and adequate service can be provided, an adequacy finding shall be issued. Where there is another service provider, a written assurance will be required. The impacts of the proposed development will be determined based on Table 4, Solid Waste, on file with the department.
- L. *Stormwater*. Adequate stormwater facilities and systems shall be provided so that the removal of stormwater will not adversely affect adjacent streets and properties or the public stormwater facilities and systems in accordance with the Florida Building Code, city engineering standards and other accepted applicable engineering standards.
- M. *Transportation facilities*.
1. The capacity for transportation facilities shall be evaluated based on Table 1, Generalized Daily Level of Service Maximum Volumes, on file with the department. If a development is within a compact deferral area, the available traffic capacity shall be determined in accordance with Table 2, Flowchart, on file with the department.
 2. *Regional transportation network*. The regional transportation network shall have the adequate capacity, and safe and efficient traffic circulation to serve the proposed development. Adequate capacity and safe and efficient traffic circulation shall be determined by using existing and site-specific traffic studies, the adopted traffic elements of the city and the county comprehensive plans, and accepted applicable traffic engineering standards. Site-specific traffic studies may be required to be made and paid for by the applicant when the city determines such a study is needed in order to evaluate the impacts of the proposed development on proposed or existing roadways as provided for in subsection M.4. An applicant may submit such a study to the city which will be considered by the DRC in its review. Roadway improvements needed to upgrade the regional transportation network shall be made in accordance with the city, the county, and Florida Department of Transportation traffic engineering standards and plans as applicable.
 3. *Local streets*. Local streets shall have adequate capacity, safe and efficient traffic circulation, and appropriate functional classification to serve the proposed development. Adequate capacity and safe and efficient traffic circulation shall be determined by using existing and site-specific traffic studies, the city's comprehensive plan and accepted applicable traffic engineering standards. Site-specific traffic studies may be required to be made and paid for by the applicant when the city determines such a study is required in order to evaluate the impact of the proposed development on proposed or existing roadways as provided for in subsection M.4. An applicant may submit to the city such a study to be considered as part of the DRC review. Street improvements needed to upgrade the capacity or comply with the functional classification of local streets shall be made in accordance with the city engineering standards and acceptable applicable traffic engineering standards. Local streets are those streets that are not classified as federal, state or county roadways on the functional classification map adopted by the State of Florida.
 4. *Traffic impact studies*.
 - a. When the proposed development may generate over one thousand (1,000) daily trips; or
 - b. When the daily trip generation is less than one thousand (1,000) trips; and (1) when more than twenty percent (20%) of the total daily trips are anticipated to arrive or depart, or both, within one-half (½) hour; or (2) when the proposed use creates varying trip generation each day, but has the potential to place more than twenty percent (20%) of its maximum twenty-four (24) hour trip generation onto the adjacent transportation system within a one-half (½) hour period; the applicant shall submit to the city a traffic impact analysis prepared by the county or a registered Florida engineer experienced in trafficways impact analysis which shall:
 - i. Provide an estimate of the number of average and peak hour trips per day generated and directions or routes of travel for all trips with an external end.

- ii. Estimate how traffic from the proposed development will change traffic volumes, levels of service, and circulation on the existing trafficways.
 - iii. If traffic generated by the proposed development requires any modification of existing or programmed components of the regional or local trafficways, define what city, county or state agencies have programmed the necessary construction and how this programming relates to the proposed development.
 - iv. A further detailed analysis and any other information that the review committee considers relevant.
 - v. The traffic impact study may be reviewed by an independent licensed professional engineer contracted by the city to determine whether it adequately addresses the impact and the study supports its conclusions. The cost of review by city's consultant shall be reimbursed to the city by the applicant.
 - vi. When this subsection M.4.b. applies, the traffic study shall include an analysis of how the peak loading will affect the transportation system including, if necessary, an operational plan showing how the peak trips will be controlled and managed.
5. *Dedication of rights-of-way.* Property shall be conveyed to the public by plat, deed or grant of easement as needed in accordance with the Broward County Trafficways Plan, the city's comprehensive plan, subdivision regulations and accepted applicable traffic engineering standards.
 6. *Pedestrian facilities.* Sidewalks, pedestrian crossing and other pedestrian facilities shall be provided to encourage safe and adequate pedestrian movement on-site and along roadways to adjacent properties. Transit service facilities shall be provided for as required by the city and Broward County Transit. Pedestrian facilities shall be designed and installed in accordance with city engineering standards and accepted applicable engineering standards.
 7. *Primary arterial street frontage.* Where a proposed development abuts a primary arterial street either existing or proposed in the trafficways plan, the development review committee (DRC) may require marginal access street, reverse frontage with screen planting contained in a nonaccess reservation along the rear property line, deep lots with or without rear service alleys, or such other treatment as may be necessary for adequate protection of residential properties and to assure separation of through and level traffic.
 8. *Other roadway improvements.* Roadways adjustments, traffic control devices, mechanisms, and access restrictions may be required to control traffic flow or divert traffic, as needed to reduce or eliminate development generated traffic.
 9. *Street trees.* In order to provide for adequate landscaping along streets within the city, street trees shall be required along the length of the property abutting a street. A minimum of fifty percent (50%) of the required street trees shall be shade trees, and the remaining street trees may be provided as flowering or palm trees. These percentages may be varied based on existing or proposed physical conditions which may prevent the ability to comply with the street tree requirements of this subsection. The street trees shall be planted at a minimum height and size in accordance with the requirements of Section 47-21, Landscape and Tree Preservation Requirements, except in the downtown RAC districts the requirements of Sec. 47-13.20.H.8 shall apply. The location and number of street trees shall be determined by the department based on the height, bulk, mass and design of the structures on the site and the proposed development's compatibility to surrounding properties. The requirements for street trees, as provided herein, may be located within the public right-of-way as approved by the entity with jurisdiction over the abutting right-of-way.

N. *Wastewater.*

1. *Wastewater.* Adequate wastewater services shall be provided for the needs of the proposed development. The proposed development shall be designed to provide adequate areas and easements which may be needed for the installation and maintenance of a wastewater and disposal system in accordance with applicable health, environmental and engineering regulations and standards. The existing wastewater treatment facilities and systems shall have adequate capacity to provide for the needs of the proposed development and for other developments in the service area which are occupied, available for occupancy, for which building permits are in effect or for which wastewater treatment or disposal capacity has been reserved. Capital expansion charges for water and sewer facilities shall be paid by the developer in accordance with Resolution 85-265, as it is amended for time to time. Improvements to the wastewater facilities and system shall be made in accordance with the city engineering and accepted applicable engineering standards.

- O. *Trash management requirements.* A trash management plan shall be required in connection with non-residential uses that provide prepackaged food or beverages for off-site consumption. Existing non-residential uses of this type shall adopt a trash management plan within six (6) months of the effective date of this provision.

P. *Historic and archaeological resources.*

1. If a structure or site has been identified as having archaeological or historical significance by any entity within the State of Florida authorized by law to do same, the applicant shall be responsible for requesting this information from the state, county, local

governmental or other entity with jurisdiction over historic or archaeological matters and submitting this information to the city at the time of, and together with, a development permit application. The reviewing entity shall include this information in its comments.

- Q. *Hurricane evacuation.* If a structure or site is located east of the Intracoastal Waterway, the applicant shall submit documentation from Broward County or such agency with jurisdiction over hurricane evacuation analysis either indicating that acceptable level of service of hurricane evacuation routes and hurricane emergency shelter capacity shall be maintained without impairment resulting from a proposed development or describing actions or development modifications necessary to be implemented in order to maintain level of service and capacity.

(Ord. No. C-97-19, § 1(47-25.2), 6-18-97; Ord. No. C-98-72, § 1, 12-15-98; Ord. No. C-99-14, § 14, 3-16-99; Ord. No. C-99-15, § 11, 3-16-99; Ord. No. C-00-26, § 6, 6-6-00; Ord. No. C-03-23, § 2, 7-1-03; Ord. No. C-06-14, § 1, 6-20-06; Ord. No. C-06-36, § 2, 10-17-06)

DSD Development and DRC Case Data											PWD Capacity Analysis Data				Committed Flow (MGD)	
DRC Case	PWD Capacity Letter Ref. #	DRC Date	Project Name	Address	Description	Water Sewer Capacity Letter Issued Date	Final DRC Approval	Construction Application Submittal Date	Master Permit Issued Date	Certificate of Occupancy Issued Date	Allocated MGD	Pump Station Basin	Notes	Water Demand (1 ERC = 300 GPD Max Day / 230.77 GPD Average Day)	Sewer Demand (1 ERC = 175 GPD Average Day)	
31R12		3/27/2012	ONE20 FOURTH STREET	120 NE 4TH STREET	368 MULTI-FAMILY UNITS W/ 2100SF RETAIL	3/24/2015	9/17/2012	12/29/2015	10/27/2016	7/24/2019	0.13530	A-7 (0.078050) & A-21 (0.057250)	BP 15122481			
67R12		8/28/2012	THE WATERWAY SENIOR HOUSING	3001 NE 30TH AVENUE	103 ROOMS ASSISTED FACILITY	12/5/2012	N/A	6/19/2014	05/15/2025	2/22/2017	0.02310	B-1				
72R12		11/13/2012	BOCKAMPERS SPORT BAR	115 NE 32ND AVENUE	18,176 SQFT RESTAURANT WITH PARKING REDUCTION	6/21/2013	6/7/2013	6/7/2013	1/22/2013	8/21/2013	0.01315	B-2				
75R12		10/24/2012	CAMM Educational Enterprises	120 NW 7TH AVENUE	CHILD DAYCARE CENTER	12/5/2012	11/15/2013	4/26/2013	8/20/2013	7/25/2014	0.00213	A-36				
36R12		5/8/2012	CVS & BANK OF AMERICA	4901 N FEDERAL HWY	DRUGSTORE AND BANK 1 STORY	7/24/2014	11/14/2012	3/12/2013	7/10/2013	11/10/2014	0.00309	B-11				
80R00		1/11/2005	RL Conrad FTLD Beach Resort/TRUMP HOTEL	551 N FTL BEACH BLVD	298 UNIT HOTEL W/ 317 SS FT COMMERCIAL USE		11/1/2005	1/30/2006	11/2/2006	5/28/2009						
12P13		6/13/2013	THE ENCLAVE	3850 N FEDERAL HWY/2315 CORAL RIDGE VIEW DR	36 LOTS FOR SINGLE FAMILY HOMES	8/7/2013	3/27/2014		N/A		0.01260		36 INDIVIDUAL SFH TO BE BUILT			
21R13		1/22/2013	ISLE OF VENICE	161 ISLE OF VENICE	10 MULTI FAMILY UNIT	12/5/2012	4/23/2013	1/28/2014	6/3/2014	5/10/2016	0.00300	D-10				
23R13		1/2/2013	8TH AVENUE RESIDENCES	215 SE 8TH AVENUE	262 RESIDENTIAL UNITS	5/17/2013	8/17/2013	4/15/2014	7/22/2014	2/16/2017	0.09170	A-8				
37R13		2/26/2013	RETAIL PLAZA PROPERTIES	2949 N FEDERAL HWY	9,315 SOFT RESTAURANT SPACE 1000 OUTDOOR SEATING	6/3/2013	9/17/2013	11/5/2013	3/25/2014	8/3/2016	0.00300					
44R13		3/26/2013	RESIDENCE 909	909 NE 16TH TER	6 MULTI-FAMILY UNITS	6/25/2013	7/23/2013	4/22/2016	3/24/2017		0.00210	A-19	BP 16042015	0.0021	0.0021	
53R13		5/14/2013	SEMINOLE RIVER LANDINGS/ART INSTITUTE	1799 SE 17TH STREET	394 MULTI-FAMILY FLEX UNITS	9/16/2013	12/6/2013		2/27/2014	1/21/2015	0.08511	D-44				
55R13		5/24/2013	AQUAVITA LAS OLAS	5670 HENDRICKS ISLE	22 MULTI-FAMILY UNITS	7/25/2013	10/4/2013	2/6/2014	5/12/2014	9/21/2018	0.00770	D-11				
62R13		9/24/2013	AUDI SERVICE CENTER	1400 PROGRESSO DR	AUDI SERVICE CENTER	3/26/2015	EXPIRED			N/A	0.00120		Case closed to inactivity on 1/18/17			
76R13		10/24/2013	VICTORIA PARK AT 12	612 NE 12TH AVE	16 TOWNHOUSE UNITS	11/02/2014	3/6/2014	8/28/2014	9/26/2018		0.00560	A-17	BP 17120438	0.0056	0.0056	
A14029		11/18/2014	OCEAN WAVE HOTEL	521 N FTL BEACH BLVD	AMENDING FROM 328 HOTEL TO A 100 MULTIFAMILY RES I	11/12/2014	EXPIRED			N/A	0.04015					
ID14001		10/14/2014	GALLERIA MALL	2300 E SUNRISE BLVD	1640 DWELLING UNITS, 165 HOTEL ROOMS AND 74,500 SQ	11/15/2016	EXPIRED			N/A	0.32795		Closed			
R14001		1/14/2014	LOFT ON 8TH STREET	501 SE 8 ST	75 MULTI-FAMILY UNITS W/ COMMERCIAL USE	3/10/2014	EXPIRED			N/A	0.01945		Closed			
R14013		3/3/2014	BUILDING ON HENDRICKS ISLE	309 HENDRICKS ISLE	5 UNIT MULTI-FAMILY	3/5/2014	9/8/2014	12/17/2014	5/28/2015		0.00125	D-11	BP 14121497	0.00125	0.00125	
R14015		3/14/2014	NEW RIVER YACHT CLUB - PHASE II	401 SW 1 AVE	349 MULTI-FAMILY UNITS		12/12/2014	6/4/2015								
R14004		1/22/2014	1055 FEDERAL	1055 N FEDERAL HWY	205 MULTI-FAMILY UNIT MIXED USE	3/10/2014	EXPIRED			N/A	0.00618		Closed			
R14007		2/3/2014	FXE BANYAN HANGER	1755 NW 51ST PLACE	EXECUTIVE AIRPORT	3/28/2014	EXPIRED			N/A	0.00048		Void			
R14008		2/4/2014	W AVIATION	5901 NW 24TH WAY	EXECUTIVE AIRPORT - AIRCRAFT HANGAR	4/14/2014	5/19/2014	2/16/2017	4/21/2017	3/5/2020	0.00048	E-2	BP 16021335			
R14011		2/17/2014	HAPPY LAND	105 N FEDERAL HWY	Office space with restaurant	6/20/2019	2/11/2015	10/3/2014	6/15/2015		0.00814	A-7	Project underwent admin review for updated building	0.008135	0.008135	
R14014		3/5/2014	RIVERSIDE LANDINGS IDP	623 SW 12 AVENUE	8 UNIT CLUSTER DEVELOPMENT	4/8/2014	2/9/2015	12/18/2015	7/25/2016	7/24/2018	0.00280	C-21				
R14016		3/14/2014	AirElement	1815 E COMMERCIAL BLVD	6243 SF 1 STORY COMMERCIAL CENTER	8/14/2014	4/18/2015	8/14/2015	4/14/2016		0.01844	B-7				
H14017		10/28/2014	Tiffany House / Escape Hotel	2900 RIOMAR STREET	124 MF Units / 96 Hotel Rooms	11/12/2014	12/1/2014	3/7/2016	8/2/2018		0.02785	D-31 & D-41	BP 18030701	0.02785	0.02785	
R14019		4/3/2014	MANOR TOWNHOMES	1716 N DIXIE HWY	12 UNITS - 2 STORY TOWNHOMES	6/25/2014	7/25/2014	2/5/2015	1/20/2016	4/14/2017	0.00360	A-27				
R14024		5/2/2014	500 FEDERAL NORTH	500 N FEDERAL HWY	3 STORY RETAIL / COMMERCIAL BUILDING	6/24/2014	5/1/2015	4/2/2015	7/6/2015	6/18/2015	0.00392	A-17				
R14025		5/2/2014	400 FEDERAL SOUTH	400 N FEDERAL HWY	1 STORY BUILDING WITH RETAIL AND COMMERCIAL	6/24/2014	7/2/2015	9/28/2012	2/13/2013	10/11/2013	0.00961	A-17				
R15050		5/19/2014	ZUNA TOWNHOMES	815 NE 17TH AVENUE	10 UNIT TOWNHOUSES	2/4/2015	9/11/2015	5/11/2016	5/15/2017		0.00290	A-19	Multiple permits for each townhouse, search by address	0.0029	0.0029	
R14031		6/24/2014	HAMPTON INN / MARINA	1335 SE 16TH STREET	178 HOTEL ROOMS AND 24 BOAT SLIPS	4/25/2014	2/24/2015	EXPIRED		N/A	0.02370	D-44	No Permit Issued			
R14032		5/30/2014	AQUAMAR	21 ISLE OF VENICE	20 UNIT - RESIDENTIAL	6/24/2015	1/9/2015	6/24/2015	4/8/2016	3/16/2018	0.00173	D-10				
R14033		7/8/2014	Aquablju	920 INTRACOASTAL DR	Mnew 45 Multi-family units RMM60 60 intercoastal	10/21/2014	6/29/2015	7/26/2016			0.01380					
R14035		7/22/2014	ATRIUM	900 NE 4TH STREET	11 UNIT MULTI-FAMILY	4/20/2016	5/5/2016	7/22/2017			0.00385	A-17 & A-27	East of US 1, flow diverted to A-13 (BP 16050423 and 16050424)	0.00385	0.00385	
R14039		9/9/2014	SIMON PLAZA	1007 NW 8TH AVENUE	PROPOSED RETAIL BUILDING	6/4/2015	8/6/2015	8/25/2015	2/10/2016	8/19/2016	0.00054	A-8				
R14041		8/29/2014	THE BAYSHORE CLUB	612 BAYSHORE DR	18 RESIDENTIAL UNITS AND CONDO BLDG	11/12/2014	6/8/2015	11/30/2017	7/19/2018		0.00125	D-40	BP 17112540	0.00125	0.00125	
R14043		9/8/2014	ALL ABOARD FLORIDA	101 NW 2ND AVENUE	PASSENGER RAIL STATION LOBBY	11/7/2014	6/26/2015	11/6/2015	5/2/2017		0.01745	A-7				
R14044		10/14/2014	Florida Community Bank	632 S FEDERAL HWY	3500 sf of Bank	10/30/2014	1/8/2015	5/13/2015	9/1/2015	7/8/2016	0.00068	A-15				
R14046		11/12/2014	Wisdom Village Crossing 105 MF Units	615 N ANDREWS AVE	105 MF Units	12/16/2014	5/14/2015	6/29/2015	9/24/2015	3/27/2017	0.03103	A-21				
R14048		11/25/2014	HOLIDAY INN EXPRESS	1500 SE 17TH STREET	HOTEL EXPANSION	6/26/2015	1/29/2015	5/20/2016	11/10/2016		0.0220	D-44	BP 15063607...TCO Issued	0.0222	0.0222	
R14048		11/12/2014	GALLERIA WEST / GALLERIA LOFTS	1025 NE 18TH AVENUE	30 MULTI-FAMILY UNIT	12/16/2017	11/4/2015	6/14/2015	10/20/2015		0.01365		Can't find letter			
R14049		11/13/2014	Bayshore 740 - 8 MF Units	740 BAYSHORE DR	8 MF Units	12/5/2014	3/17/2015	EXPIRED		N/A	0.00075	D-40				
R14051		11/25/2014	BC ADDITION RECOVER CENTER	325 SW 28TH STREET	ONE 2 STORY BLDG FOR BARC WITH 50 DETOX BEDS	10/2/2015	12/10/2015	1/6/2016	9/8/2016	5/1/2018	0.00575	A-60				
R14052		11/25/2014	MACKANEN BEACH HOUSE	2512 NE 32ND AVENUE	BEACH HOUSE - 4 UNITS	1/30/2015	3/17/2015	4/14/2015	11/23/2015	10/2/2017	0.00120	B-14				
46R06		11/25/2014	Belmar Development - Paramount Condo	701 N FTL BEACH BLVD	Orion Hotel	5/9/2016	4/21/2009	5/1/2015	2/2/2016		0.00891	D-40	Hold on Building Permit 15050045 but building is occu	-0.00891	-0.00891	
R14060		12/9/2014	Pacific National Bank / Fairfield at Flagler Village	673 NE 3 AVE	292 MF Units	12/16/2014	4/15/2015	9/24/2015	5/20/2016	4/17/2018	0.07146	A-21				
R14062		12/9/2014	299 N Federal Hwy	299 N FEDERAL HWY	299 Room Hotel with 24448 SF Retail	12/9/2015	3/1/2015	12/3/2015	2/4/2017		0.07435	A-7	BP 16120221	0.07435	0.07435	
R14065		12/23/2014	17TH PLACE TOWNHOUSE UNITS	825 NE 17TH TERRACE	3 STORIES 3 BEDROOMS AND 2 CAR GARAGES	2/2/2015	12/23/2014	5/4/2015	9/24/2015	6/8/2017	0.00420	A-19				
R15048		10/13/2015	100 LAS OLAS	100 E LAS OLAS BLVD	120 Multi-Family Units and 228 Hotel Rooms with Retail	11/8/2015	8/19/2016	8/6/2016	7/28/2017		0.13800	A-7	BP 16080703	0.137995	0.137995	
R15001		1/13/2015	Quantum at Flagler Village	701 - 723 N Federal Hwy	328 MF Units	2/28/2017	11/16/2015	6/29/2015	10/30/2017		0.09246	A-21	Marnott Courtyard Project (BP 15063452)	0.092457	0.092457	
R15004		1/27/2015	CYPRESS CREEK MEDICAL PAVILLION	2122 NW 62ND STREET	77513 SF MEDICAL OFFICE BUILDING	4/22/2015	11/17/2015	4/15/2016	6/27/2018		0.01500	E-2				
R15005		1/13/2015	Rooms To Go	1413 N Federal Hwy	39,000 SF Retail Building	03/05/2015	7/16/2015	10/2/2015	2/15/2016	11/26/2018	0.00382	A-14				
R15006		2/10/2015	Thirty Third Court Condo	2895 NE 33 CL	Eleven (11) Multi-Family Units	3/6/2015	5/18/2015	6/26/2015	9/15/2016	7/20/2018	0.00266	B-1				
R15008		2/10/2015	Sunset Lake Luxury Residences	353 Sunset Dr.	Eight (8) Unit Multi-Family	4/17/2015	6/22/2015	6/25/2015	5/2/2016	4/27/2018	0.00000	D-38				
15R010		2/10/2015	THE RESERVE AT EDGEWOOD	2807 SW 15TH AVENUE	105 TOWNHOUSES 2 STORY	5/10/2018	7/27/2015	EXPIRED		N/A	0.03100	C-28				
R15013		3/10/2015	AC Marriott Hotel	3017-3029 Alhambra St	One Hundred Seventy One (171) Room Hotel	4/30/2018	12/13/2017	9/25/2018	7/5/2019		0.02800	D-31	BP 18092263	0.028	0.028	
R15014		3/10/2015	CORAL RIDGE RETAIL	3800 N FEDERAL HWY	36,711 SF RETAIL CENTER	7/22/2015	7/22/2015	6/26/2015	10/2/2015	7/12/2016	0.00464	B-1				
R15015		3/24/2015	Justice Building - Restaurants	524 S. Andrews Ave.	11,600 SF Retail & Restaurant	5/9/2016	4/21/2009	5/1/2015	2/2/2016		0.00891	A-21				
R15017		8/28/2018	URBN @ Flagler	401 NE 3rd Avenue	Use Hundred Seventy One (171) Multi-Family Units with 3,200 SF	11/15/2019	OPEN				0.12462	A-21	Reapplied to DRC	0.124615	0.124615	
R15019		4/28/2015	Davie Boulevard Office Building	201 SE 12th St.	7,239 SF Office and Parking Reduction	7/28/2015	10/7/2015	6/24/2015	4/20/2016	3/15/2017	0.00145	A-16				
R15023		5/12/2015	788 E. Las Olas	788 E. Las Olas Blvd.	34,429 SF Office, Retail & Restaurant	8/5/2015	10/26/2015	3/22/2016	9/1/2016	1/15/2019	0.00622	A-8				
R15024		5/26/2015	7-ELEVEN	2990 W BROWARD BLVD	NEW 3010 SF WITH CAR WASH AND 16 FUELING	4/24/2015	1/15/2016	1/26/2016	8/3/2016	4/10/2017	0.00110	C-8				
R15028		6/23/2015	Flagler Townhomes	645 NE 4th Ave	Five (5) Townhome Units	6/7/2016	9/16/2016	9/22/2016	6/30/2017		0.00362	A-21	BP 16091857	0.003623	0.003623	
R15029		6/23/2015	Aqua 133	133 Isle of Venice	Waterway Use / Eight (8) Multi-Family Units	12/24/2015	4/1/2016	6/15/2016	3/29/2017	6/3/2019	0.00070	D-10	BP 16061408			
D15001		7/14/2015	BAYHAR MAR	801 Seabreeze Blvd.	625 Multi-Family Units, 236 Hotel Rooms, 44,725 SF Office	8/18/2015	NO APPROVED				0.18058					
R15034		3/28/2015	MORGAN ON 3RD	400 NE 3rd Ave	357 Multi-Family Units & 4,232 SF Commercial	6/4/2015	3/8/2016	4/22/2016	1/28/2017	1/6/2020	0.12630	A-21	BP 16041961			
R15035		7/28/2015	POLLO TROPICAL	5554 N FEDERAL HWY	DEMO EXISTING 4 STORY BLDG AND CONSTRUCT 2	9/24/2015	12/1/2015	2/1/2016	7/28/2016	7/31/2017	0.00311	B-11				
R15036		8/11/2015	ADONEL CONCRETE PLANT	5551 NW 9TH AVENUE	CONDITIONAL USE FOR EXPANSION OF CONCRETE	9/22/2015	2/14/2017	EXPIRED		N/A	0.00111		Applied for building permit with no DRC approval?			
R15037		8/11/2015	124 HENDRICKS ISLE	124 Hendricks Isle	Waterway Use / Six (6) Multi-Family Units	9/2/2016										
R15038		8/11/2015	ALL ABOARD FLORIDA PARKING	155 NW 3rd Ave	Parking Garage with 1,497 SF of Retail	12/6/2016	3/20/2016	EXPIRED		N/A	0.00040	A-7				

R16022		6/14/2016	1201 E Broward Blvd	1201 E Broward Blvd	1,750 SF Office Use within 100' of Residential Property	6/27/2016	11/10/2016	12/20/2016	5/10/2017	6/10/2019	0.00021	A-7	East of US 1, flow diverted to A-13 (BP 16121542)		
R16023		6/28/2016	The Residences of Las Olas	215 N New River Drive East	419 Multifamily Units and 4,450 SF Retail Use		3/13/2017	8/24/2017	3/26/2018				I don't believe a capacity letter was done for this one		
R16024		6/28/2016	NEW HOPE CHRISTIAN SCHOOL	6400 NW 31ST AVENUE	2 STORY 17,724 SF CHILDCARE FACILITY, 2 STORY17,	11/30/2016	11/29/2017	CLOSED	-	-	0.00849	E-5	Building Permit not submitted within 18 months		
R16025		6/28/2016	790 E Broward	790 E Broward Blvd	329 Multifamily Units and 6,871 SF Retail Use	8/4/2016	2/3/2017	10/2/2017	2/26/2018		0.07449	A-7	East of US 1, flow diverted to A-13 (BP 17100029)	0.074487	0.074487
R16029		7/12/2016	Holiday Park 12--Unit	700 NE 14th Ave	12 Townhouse Units	6/28/2016	11/28/2016	9/27/2017	4/9/2018		0.00290	A-19	BP 17091363	0.002898	0.002898
R16030		7/12/2016	3030 North Ocean	3030 N Ocean Blvd	Yard Modifications, 24 Multi-Family Units	3/2/2016	9/1/2016	4/30/2017	4/26/2018		0.00600	B-3	BP 17042774	0.006	0.006
R16033		7/12/2016	KLA CHILDCARE	2857 E OAKLAND PARK BLVD	CHILD DAYCARE IN CB ZONING	9/2/2016	3/14/2017	12/6/2016	7/3/2017	8/3/2018	0.00142	B-1			
R16034		8/9/2016	Belmont Village	322 789 SF - Astory parking - 8 story ACLF		2/23/2017	3/8/2017	4/12/2017	1/1/2018		0.04442	B-4	BP 17040906	0.044418	0.044418
R16036		6/27/2016	Riverside Park-Townhomes	420 SW 20th Avenue	60 Two-Story Townhouses and Clubhouse	4/30/2017	6/24/2018	OPEN				C-20	New DRC Case No. 19003		
R16038		7/26/2017	MARINE 1957	1957 S ANDREWS AVENUE	INTERIOR/EXTERIOR RENOVATIONS AND CHANGE OF	12/7/2016	7/28/2017	11/7/2017	12/6/2017		0.00000	A-10			
R16039		7/26/2016	1849 Middle River	1849 Middle River Dr	Waterway Use / 10 Multifamily Units	9/30/2016	3/23/2017	12/19/2017	VOID	N/A	0.00150	B-5	BP 17121961, project voided on 10/1/2019		0.0035
R16037		7/26/2016	Progresso Village Court	617 NW 1st Ave	10 Townhouse Units	6/28/2016	5/22/2017	12/11/2017			0.00350	A-104	BP 17120938 (project divided into multiple permits)	0.0035	0.0035
R16041		8/9/2016	Cubsmart FTL	5601 NE 14th Ave	106,544 SF Self-Storage Facility	8/30/2016	11/10/2016	2/1/2017	11/30/2017		0.00215	B-17	BP 17020049	0.002145	0.002145
R16042		8/9/2016	Holiday Inn Fort Lauderdale	2100 S Federal Hwy	2100 S Federal Hwy	10/28/2019					0.03759	D-55		0.037498	0.037498
R16043		8/23/2016	Flagler Storage	125 NW 4th St / 410 N FLAGLER AVE	49,197 SF Self-Storage Facility	10/20/2016	3/24/2017	4/19/2017	9/28/2017	11/6/2019	0.00024	A-21	BP 17041698		
R16044		7/19/2016	ST JOHN UMC	1520 NW 5TH STREET	BUILDING ADDITION TO CONNECT THE EXISTING TWO	1/17/2017	EXPIRED			N/A	0.00020	A-18			
R16045		9/13/2016	15 Isle of Venice	15 Isle of Venice Dr	Waterway Use & Yard Modification for 7 (Seven) Residential	8/30/2016	5/29/2018	EXPIRED		N/A	0.00145	D-10			
R16048		9/13/2016	UNIVERSAL PROPERTY	1110 W COMMERCIAL BLVD	4 STORY PARKING GARAGE	11/1/2016	5/18/2017	EXPIRED		N/A	0.00303		Private PS		
R16049		9/13/2016	Rivertown	300 SW 1st Ave	1,214 Residential Units and 40,000 SF Retail Use	10/31/2016	8/11/2017	N/A			0.28762	A-7	new application and permits under XLas Olas (which is under construction)		
R16050		9/13/2016	W Hotel Signage	401 N Fort Lauderdale Beach Blvd	Two Monument and Two Free Standing Signs in the Central								No capacity needed - project is for a sign		
R16053		9/27/2016	Fidelity Investments Storage	450 N Federal Hwy	Storage Review in RAC								No capacity needed - project is for a sign		
R16054		9/27/2016	FLB Hotel and Suites	1137 Seabreeze Blvd	224 Room Hotel with Yard and Height Modification	11/9/2016	EXPIRED			N/A	0.05833	D-33			
R16055		10/11/2016	550 Building - Parking Garage	500 S Andrews Ave	Eight Story Parking Garage and 14,000 SF Commercial Space	11/30/2017	3/15/2018	4/24/2018	10/2/2018		0.00103	A-11	BP 18042292	0.001025	0.001025
R16056		10/11/2016	Ergon / Moss	1450 Progresso Dr / 1200 NE 15TH ST	Two Warehouse Buildings Totalling 64,177 SF	11/7/2016	1/4/2017	1/13/2017	5/10/2018	4/10/2019	0.00338	A-27			
R16058		10/25/2016	Las Olas Walk - South	200 S Federal Hwy	127 Residential Units and 656 Parking Space Garage	1/5/2017	2/1/2018	3/5/2018	10/12/2018		0.03175	A-8	BP 18030356	0.03175	0.03175
R16059		10/25/2016	Las Olas Walk - North	116 S Federal Hwy	329 Multifamily Units	8/7/2017	11/14/2017	10/12/2018			0.07744	A-7 & 8	Address is wrong in C+ Permit # is 17111111	0.07744	0.07744
R16060		9/26/2016	RIVERBEND	200 NW 22ND AVE	RIVERBEND SHELL WAREHOUSE	12/23/2016	N/A	8/8/2017	12/15/2017	11/13/2018	0.04093	A-98			
R16061		10/11/2016	Vanessa's Pies	701 E Broward Blvd	14,830 SF Restaurant / Bar & Shared Parking		10/27/2016	8/9/2016	1/19/2017						
R16062		10/11/2016	FXE SHELTAIR NORTHSIDE	1710/1760 NW 62 STREET	DEMOLITION OF EXISTING HANGAR AND PAVEMENTS,	11/1/2016	3/16/2017	2/14/2017	6/7/2018		0.01068	E-2	BP 17021264	0.010681	0.010681
R16063		10/11/2016	450 Federal - South	460 N Federal Hwy	34,665 SF Commercial Use & 137,667 SF of Garage Parking		11/17/2016	6/29/2016	3/2/2016				No capacity letter, building permit issued before DRC approval, FDEP Permits already approved		
R16066		3/28/2017	Riverwalk Residences at Las Olas	333 N New River Drive East	Conditional Use for Social Services Residential Facility (SSRF) /	5/30/2017	3/23/2018	6/21/2018			0.06241	A-7	Foundation Permit Only - BP 19062477	0.062412	0.062412
R16067		12/13/2016	201 SW 20th Street	201 SW 20th St	Seven (7) Residential Units	5/1/2017	8/12/2017	6/14/2018	EXPIRED	N/A	0.00210	A-54	BP 19081207		
R16069		11/22/2016	Quarterdeck New Restaurant	1035 SE 17th St	Two 4,000 SF Restaurants with Off-Site Parking Agreement	1/5/2017	3/6/2017	7/3/2017	12/21/2017		0.00597	D-43	BP 17070055	0.00597	0.00597
R16070		12/13/2016	Capital One Café - Las Olas	801 E Las Olas Blvd	4,467 SF Bank / Restaur. Use in Regional Activity Center - East	1/17/2017	3/23/2017	8/1/2016	8/16/2017	4/29/2019	0.00045	A-8			
R16071		12/13/2016	Five Unit Townhome Development	1224 NE 15th Ave	Five (5) Residential Units	1/11/2017	7/10/2017	8/5/2019			0.00150	A-20	BP 19080313	0.0015	0.0015
R16072		12/13/2016	Hive FTL	1444 NE 4th Ave	Two 1,100 SF Restaur., 2,240 SF Professional Office & 2,240										
R16073		12/13/2016	501 Seventeenth	501 SE 17th St	Conditional Use for Mixed Use Development / 244 Residential	3/23/2017	12/22/2017	12/18/2017	1/4/2019		0.06122	A-20	BP 17121705	0.06122	0.06122
R17001		11/02/2017	Middle River Terraces	7th Ave / 540 NE 14th CT	Conditional Use for Mixed Use Development / 26 Multi-Family	10/30/2017	12/13/2017	12/27/2017	5/22/2018	8/7/2019	0.00865	A-17	BP 17122536		
R17003		11/02/2017	CAMBRIA SUITES	2231 N OCEAN BLVD	69 ROOMS HOTEL	12/27/2017	7/27/2017	12/15/2017	2/26/2019		0.01372	B-14	BP 17121522	0.013722	0.013722
R17005		11/02/2017	488 Residences at Riverwalk	444/488 SW 1st Ave	362 Residential Units and 6,200 SF Retail Use	1/1/2017	12/18/2017	EXPIRED			0.08910	A-11			
R17006		1/24/2017	Forge Lofts	401 NW 1st Ave	35 Residential Units in Downtown RAC	8/25/2017	4/19/2017	7/9/2019	4/23/2020		0.00785	A-21	BP 19070775 - Letter revised and updated on 6/12/20	0.00785	0.00785
R17007		2/14/2017	SE 12th Court Townhomes	826 SE 12th Ct	14 Residential Units	11/8/2018	1/7/2019	OPEN			0.00420	D-43		0.0042	0.0042
R17008		2/14/2017	Brightline Station & Garage Signage	155 NW 3rd Ave	Sign Review						N/A		Signage, no flow		
R17009		2/28/2017	Sailboat Bend Residential Development	1017 SW 4th St	6 Unit Residential Cluster Development	8/12/2018	5/14/2019	OPEN			0.00200	C-10		0.002	0.002
R17010		2/28/2017	ArchCo Metropolitan	500 N Andrews Ave	385 Residential Units, 12,039 SF Restaurant	3/22/2018	11/2/2017	12/20/2017	8/21/2018		0.11281	A-21	BP 17122089	0.112813	0.112813
R17011		2/28/2017	CIRCLE K CONVENIENCE STORE	901 W SUNRISE BLVD	CONSTRUCTION OF A NEW 4,988 SF, CIRCLE K	5/30/2018	12/7/2018	10/27/2017	1/30/2019		0.00300	A-45	BP 17102565	0.003	0.003
PRE17002		2/28/2017	South Fork Marina	1500 SW 17th St	26 Slip Marina w/ Garage & Storage Buildings	8/10/2018	EXPIRED	-	-	-	0.00600	C-13	Increase of 0.006 MGD to sewer, 0.002 MGD to water		
R17013		3/14/2017	Ocean Fork	3001 N Ocean Blvd	Mixed Use Development - 16 Residential Units & 2,883 SF	6/14/2016	11/15/2017	EXPIRED	-	-	0.00355	B-3			
R17016		3/28/2017	FSMY Office	213 Rose Dr	Waterway Use for 5,000 SF Office		N/A						Project Cancelled		
R17014		3/28/2017	Miami 2100	2100 S Miami Rd	Mixed Use Development - 12 Res. Units, 1,096 SF Office &	8/1/2018	OPEN				0.00300	D-55	Re-issued capacity letter due to expiration	0.003	0.003
R17017		3/28/2017	FXE PARCEL 16C	1600 NW 46TH STREET	CONSTRUCTION OF 16,500 SF AIRCRAFT HANGAR W/ 1650	10/31/2017	9/26/2017	11/22/2017	7/24/2018	2/14/2020		E-7	BP 17111956		
R17018		3/28/2017	FAT City	300 N Andrews Ave	626 Residential Units, 183,011 SF Office & 88, 192 SF Retail	10/22/2018	11/20/2018	OPEN			0.18700	A-7 & A-21	Approved by City Commission on 7/11/2017	0.187	0.187
R17019		3/9/2017	DATO ELECTRIC	901 SW 27TH AVENUE	NEW CONSTRUCTION OF A TWO STORY METAL	2/20/2017	4/13/2018	2/17/2017	9/10/2018		0.00032	A-56	BP 17020332	0.000318	0.000318
R17020		4/25/2017	Sistrunk Boulevard Off-Street Public Parking Lots -	1136 NW 6th St /W Sistrunk Blvd	Redevelopment of Vacant Parcel to City of Fort Lauderdale		N/A						Parking Lot, no flow		
R17021		4/25/2017	Sistrunk Boulevard Off-Street Public Parking Lots -	1619 NW 6th St /W Sistrunk Blvd	Redevelopment of Vacant Parcel to City of Fort Lauderdale		N/A						Parking Lot, no flow		
R17022		4/25/2017	Sistrunk Boulevard Off-Street Public Parking Lots -	1812 NW 6th St /W Sistrunk Blvd	Redevelopment of Vacant Parcel to City of Fort Lauderdale		N/A						Parking Lot, no flow		
R17023		5/9/2017	Twin Peaks Revue & Fairfield Inn Hotel	6210 N Andrews Ave	130 Room Hotel and 8,756 SF Restaurant		OPEN								
R17025		5/23/2017	Southside CityCentre	501 S Andrews Ave	879 Residential Units, 330 Hotel Units, 207,000 SF Office &	8/23/2018	8/30/2018	EXPIRED			0.26200	A-11			
R17026		5/23/2017	Ferrari Maserati of Fort Lauderdale	5750 N Federal Hwy	43,857 SF Building Addition	10/19/2017	8/16/2017	9/19/2017	4/16/2018		0.00180	B-12	BP 17090649	0.001804	0.001804
R17027		6/13/2017	Victoria Park Shoppes	618 N Federal Hwy	Shared Parking Reduction for Development Site with Multiple		N/A						Parking reduction project		
R17028		9/19/2017	Progresso Commons	947 N Andrews Ave	Conditional Use for Convenience Store within Shopping Center	4/2/2018	11/15/2018	5/30/2019	OPEN		0.01223	A-104	BP 19053105 (per 11/20/2019 note - on hold until 202	0.012232	0.012232
R17029		6/13/2017	Fiori Financial Group	311 SE 7th St	15,968 SF Office in Downtown	4/30/2018	8/11/2017	EXPIRED	-	-	0.00200	A-11			
R17030		6/13/2017	THE WAVES	1000 W STATE ROAD 84	MIXED USE DEVELOPMENT WITH RESIDENTIAL FLEX	5/23/2017	2/9/2018	EXPIRED	-	-	0.04279	A-59			
R17032		6/27/2017	212 Southeast 2nd Avenue	212 SE 2nd Ave	348 Residential Units and 25,222 SF Retail in Downtown	4/25/2017	2/9/2018	6/18/2018	12/11/2018		0.08534	A-7	BP 18061392	0.08534	0.08534
R17033		6/27/2017	201 East Las Olas	225 E Las Olas Blvd	373,400 SF Office and 16,500 SF Retail in Downtown	10/25/2017	12/22/2017	2/19/2018	9/19/2018		0.08671	A-7	BP 18021610	0.086711	0.086711
R17038		6/27/2017	Kelly Ustalt Sign	500 N Federal Hwy	Non-Compliant Branding Sign in RAC								Signage project, no flow		
R17040		7/25/2017	Bahia Mar	801 Seabreeze Blvd	Mixed Use Development with 651 Residential Units, 118,815 SF	8/2/2018	8/17/2018	OPEN			0.18964	D-32	Site Plan Approval expires 9/14/2020 per extension re	0.189641	0.189641
R17042		7/25/2017	Alta Flagler Village Phase II	444 NE 7th St	Conditional Use for 12-Story Building with 271 Residential Units	5/9/2018	11/14/2018	4/9/2019	12/20/2019		0.05100	A-21	BP 19040848	0.051	0.051
R17043		7/25/2017	Sailboat Bend Apartments	425 SW 4th Ave	110 Affordable Housing Units in Downtown	5/1/2018	8/20/2018	9/27/2018	1/26/2019		0.02800	A-42	BP 18112000	0.028	0.028
R17044		8/8/2017	Next Las Olas	419 SE 2nd St	374 Residential Units and 2,733 SF Retail in Downtown	12/12/2017	3/12/2018	11/5/2018			0.06200	A-7	BP 18080608	0.062	0.062
R17046		8/8/2017	Holman Lauderdale Redesign / Renovation	900 E Sunrise Blvd	14,487 SF Showroom Building Addition, 172, 882 SF	11/7/2017	9/17/2018	12/21/2017	12/6/2018	1/31/2020	(0.00339)	A-17	BP 17122213		
R17048		8/22/2017	RD Las Olas	201 S Federal Hwy	352 Residential Units and 3,200 SF Retail in Downtown	11/20/2018	5/23/2018	OPEN			0.06266	A-7	Revision submitted on 9/7/2018, updated letter issued	0.062658	0.062658
R17049		9/19/2017	Cordova Boat Club	1335 SE 16th St	Conditional Use for Marina	6/12/2018	10/23/2018	1/23/2019			(0.00030)	D-44	BP 19011656	-0.0003	-0.0003
R17052															

R17076		12/12/2017	912 Victoria Park	912 NE 4th Street		12/11/2018	1/16/2019	12/11/2019	OPEN		2/28/2020	0.00200	A-17	BLD-RNC-19120007	0.002	0.002
R15041		8/11/2015	1075 W Sunrise Boulevard	1075 W Sunrise Boulevard		1/27/2017	2/12/2016	6/27/2016	3/8/2017		2/28/2020	0.00167	A-45	BP 16062418		
-			1951 SW 28th Avenue	1951 SW 28th Avenue		1/27/2017	EXPIRED				N/A	0.00030		No DRC Case		
R18011		2/13/2018	Beach Boy Plaza	401 S. Fort Lauderdale Beach Boulevard		8/16/2020	EXPIRED	-	-		-	0.06000	D-31			
SITE-19100007 (formerly R18049)		7/24/2018	Croissant Park II	1400 - 1410 SW 4th Avenue		2/17/2020	OPEN	2/26/2019	OPEN				A-12	Multiple masters (search by Owner as Croissant TH	0.001615	0.001225
R17086		11/28/2017	Cumberland Farms	Sunrise Boulevard and NE 4th Avenue		10/16/2018	7/19/2019	9/25/2019	OPEN			0.00300	A-28	BP 19092211	0.003	0.003
R15065		12/8/2015	Cypress Creek Place	SE corner of W Cypress Creek Road and Powerline Road		12/2/2016	4/18/2016	EXPIRED			N/A	0.00613				
R15032		7/14/2015	Dunkin Donuts	350 W Sunrise Boulevard		1/13/2016	4/1/2016	7/11/2016	6/15/2017			0.00193	A-104	BP 16070744 is expired but they have a TCO	0.001926	0.001926
-			Florida International Terminal Office Building	4100 McIntosh Road		10/19/2016	EXPIRED				N/A	0.00105		No DRC Case		
R18038		6/12/2018	Florida Community Bank	1790 East Commercial Boulevard		7/17/2018	11/7/2018	7/23/2018	3/4/2019	11/27/2019		0.00004	B-9	BP 18071941		
R18055		8/14/2018	440 NE 3rd Avenue	440 NE 3rd Avenue		11/6/2018	4/17/2019	9/30/2019	OPEN			0.00900	A-21	BP 19092692	0.009	0.009
R19022		4/9/2019	One Financial Plaza Redevelopment	100 SE 3rd Avenue	Construction of 241 Residential units with 15,178 SF of retail	7/3/2019	3/11/2020					0.05960	A-7	Reissued updated letter on 7/3/2019	0.059598	0.059598
R18061		9/1/2018	Seven Seas II	908 NE 17th Avenue		10/17/2018	EXPIRED				N/A	0.00200				
R18020		4/24/2018	3000 Alhambra	3000 Alhambra	215 residential units to replace 21-unit condo	4/3/2019	OPEN						D-31	Reissued updated letter on 4/30/2020	0.039004	0.02733
R18039		6/26/2018	iTown Project	208 - 210 SE 9th Street		10/12/2018	EXPIRED				N/A	0.01100	A-11			
-			Oak Tree	2400 Oak Tree Lane		4/4/2018	N/A						E-3	Updated with letter issued on 3/4/2019.		
R18001		1/9/2018	Dajani Plaza	1512 NW 19th Street		10/9/2018	5/1/2019	7/12/2019				0.00200	A-48	BP 19071220	0.002	0.002
R18017		3/27/2018	The Dale Hotel	1055 N. Federal Highway		10/12/2018	9/25/2019	10/3/2019	OPEN			0.00600	A-14	BP 19100423	0.006	0.006
-			520 N. Birch Road Condominium	520 N. Birch Road		9/19/2018	EXPIRED				N/A	0.00400	D-41	No DRC Case		
R18037		6/12/2018	Art Lofts	637 NE 4th Street	Three-story building with 9 town houses	9/17/2018	5/17/2019	11/26/2019	4/17/2020			0.00300	A-21	BLD-CNC-19110009	0.003	0.003
R15033		7/14/2015	Crown Center Plaza	1401 NW 62nd Street	to serve those existing uses, as well as retail and service use	9/5/2018	10/9/2019	12/11/2019	OPEN			0.00600	E-2	BLD-CNC-19120004	0.006	0.006
R16049		9/13/2016	X Las Olas (Previously known as Rriverfront)	301 & 221 SW 1st Avenue		8/31/2018	8/11/2017	10/24/2017	11/20/2018			0.32700	A-7	BP 17102133	0.327	0.327
R18022		4/10/2018	195 North Federal Highway	195 North Federal Highway		7/27/2018	1/16/2019	6/17/2019	VOID			0.00200	A-7	BP 19061887		
R18044		7/10/2018	1401 SW 1st Avenue	1401 SW 1st Avenue		7/13/2018	9/25/2018	2/12/2019	6/20/2019	1/14/2020		0.00200	A-10	BP 19020987	0.002	0.002
R18047		9/27/2018	Spin Carwash	2700 West Broward Boulevard		10/19/2017	2/16/2018	4/24/2018	10/18/2018			0.01050	C-26	BP 18042279		
R18067		11/14/2018	New River Yacht Club Phase III	416 SW 1st Avenue		4/26/2019	4/26/2019	8/30/2019	0.05594				A-11	BP 19030378	0.055941	0.055941
R18058		8/28/2018	Bayshore Hotel	3016 Bayshore Drive	CLOSED	12/10/2018	CLOSED						D-31	Project not approved by City Commission (6/4/2019 meeting)		
R17047		9/19/2017	Crown Pawn	1268 State Road 7	5,490 SF single-story merchandise building	7/15/2020	OPEN						C-22	Reissued letter after expiration	0.000906	0.000528
R18054		8/28/2018	Residence Inn Hotel	425 Seabreeze Blvd		1/8/2019	EXPIRED					0.03906	D-31		0	0
R18068		10/9/2018	1507 SE 15th Street	1507 SE 15th Street		1/9/2019	1/11/2019	8/27/2019	4/22/2020			0.00200	D-43	BP 19082699	0.002	0.002
R18079		12/11/2018	Henderson Behavioral Health Crisis Stabilization Unit	330 SW 27th Avenue	Proposed 3-story building with 24 rooms on parcel with existing b	1/29/2019	4/9/2019	4/12/2019	OPEN			0.01100	PRIVATE	BP 19041263 Sewer increase by 0.011, water increas	0.011	0.011
R18066		10/23/2018	SeaQuest Aquarium	2554 E Sunrise Boulevard		2/4/2019	OPEN						B-4	BP 19072348 (project will not increase demand)		
R19002		1/8/2019	629 Residences	629 SE 5th Avenue	190 multifamily residential unit and 1,300 SF retail use in downtow	9/8/2019	3/12/2019	5/24/2019				0.06085	A-11	Reissued letter to reflect change of 249 units to 251 u	0.060847	0.060847
R19003		1/8/2019	Riverside Park Townhomes	1901 SW 5th Place		3/4/2019	3/6/2019	OPEN				0.01590	C-20	Site plan extension until 4/4/2022	0.0159	0.0159
-			Oak Tree PUD	NW 44th Street	275 single-family residents, 130 townhomes, recreational area	3/4/2019	EXPIRED					0.11400	E-3	Oakland Park Project (subject to large-user agreement)		
R18014		2/27/2018	AutoNation	130 W State Road 84	Storage yard with accessory outdoor storage	3/13/2019	5/21/2019	6/12/2019	OPEN			0.02900	-	BP 19061459 (Water increase for Irrigation only)	0.029	0
R18053		8/14/2018	100 Avenue of the Arts	100 NW 7th Avenue	62000 SF 7-story building	3/19/2019	5/13/2019	OPEN				0.01100	A-36		0.011	0.011
R18073		11/13/2018	Per 68	2301 SE 17th Street	Redevelopment of Per 68 Site	3/27/2019	6/15/2019	5/31/2019	OPEN			0.0264	D-35	BP 19020072	0.02642	0.02642
R19016		3/12/2019	Anointed by Christ International Christian Center	501 NW 7th Terrace	2,200 SF Church	4/3/2019	5/15/2019	OPEN				0.00035	A-3W		0.000345	0.000345
R18018		4/10/2018	Las Olas Marina	240 E. Las Olas Circle	Marina redevelopment with boat slips, offices, restaurants	4/5/2019	12/19/2019	OPEN				0.02404	D-31		0.024044	0.024044
R18076		11/27/2018	Parker Playhouse	707 NE 8th Street	Renovation of Parker Playhouse	4/15/2019	4/5/2019	4/17/2019	OPEN			0.00000	A-17	BP 19041818, No net increase to sewer or water		
R19004		1/22/2019	YMCA LA Lee Mizell Community Center	1409 NW 6th Street	72,000 SF 4-story YMCA building	4/15/2019	OPEN	5/15/2019	11/8/2019			0.01510	A-23	BP 19051516	0.015102	0.015102
R19012		2/26/2019	160 Isle of Venice	160 Isle of Venice	Renovation of an existing 25 unit building to 16-unit residential buildi	4/15/2019	OPEN	4/19/2019				0.00217	D-10	Decrease in flow	-0.002173	-0.002173
R19009		2/12/2019	Sano Jet (Phase III)	1525 NW 50th Street	20,000 SF Hangar with no proposed demand	4/22/2019	7/18/2019	OPEN				0.00000		BP 19071802 (No proposed demand)		
R19001		1/8/2019	North Ocean Townhomes	4201 North Ocean Boulevard	Six 2-story townhomes	5/28/2020	OPEN						B-2		0.0018	0.0018
L17001		2/14/2017	Whiddon Parcel Development	1511 SW 9th Avenue	and use change to construct 139 condominiums and 76 townhom	5/1/2019	OPEN					0.05547	A-12		0.055469	0.055469
-			City of Wilton Manors LUPA	-	Proposed increase in intensity of land use in the City of Wilton Man	5/8/2019	N/A					0.25800	PRIVATE	land use increase in Wilton Manors, not an actual de	0.258	0.258
R18005		11/13/2018	Davie Boulevard Townhomes	1515 West Davie Boulevard	12 two-story townhomes	5/13/2019	OPEN					0.00360	C-19		0.0036	0.0036
A19006		-	Fort Lauderdale Aquatic Center	501 Sea Breeze Boulevard	n of the Fort Lauderdale Aquatic Center and addition of 2,912 sta	5/17/2019	OPEN	7/30/2019	OPEN			0.01200	D-31	BP 19072766	0.012	0.012
R19028		4/23/2019	909 Sistrunk	909 Sistrunk Boulevard	3,335 SF Restaurant and 7,600 SF office	5/29/2019	OPEN					0.00600	A-23		0.006	0.006
R19030		4/23/2019	Shops at the Landing	5554 North Federal Highway	SF building comprised of 4500 SF retail space and 1500 SF resta	5/1/2019	6/4/2019	7/22/2019	OPEN			0.00200			0.002	0.002
R19016		3/12/2019	SkyLofts on 3rd	224 SE 9th Street	Multifamily residential with 60 units and 2,650 SF of retail area	6/4/2019	EXPIRED					0.01400	A-11	Letter expired, DRC case still open.	0	0
R19025		4/9/2019	Cypress Creek Commerce Center I	1501 NW 64th Street	86,920 SF Warehouse	6/7/2019	10/7/2019	11/14/2019	OPEN			0.01000	E-2	BLD-PBA-19110001	0.01	0.01
R19023		4/9/2019	Cypress Creek Commerce Center II	1201 NW 64th Street	147,690 SF Warehouse	6/7/2019	10/7/2019	11/14/2019	OPEN			0.01600	E-2	BLD-PBA-19110002	0.016	0.016
R19024		4/9/2019	Cypress Creek Commerce Center III	6320 NW 12th Avenue	139,320 SF Warehouse	6/7/2019	10/7/2019	11/14/2019	OPEN			0.01500	E-2	BLD-PBA-19110003	0.015	0.015
R19005		1/22/2019	Edgewood Villas	1403 SW 31st Court	Cluster townhome development	6/10/2019	OPEN					0.00150	E-28		0.0015	0.0015
R19036		5/28/2019	Lockhart Stadium	1350 NW 58th Street	10,000 SF restaurant/community center, 49,000 SF tra	6/10/2019	OPEN	8/27/2019	11/2/2019			0.06454	E-4	BP 19082702, ERC calculations indicate a net deman	0.06454	0.06454
R19027		4/23/2019	Lineo at Lake Ridge	1040 N Victoria Park Rd	8 residential townhouse units	6/12/2019	OPEN	10/17/2019	OPEN			0.00240	C-20	BP 19082702, ERC calculations indicate a net deman	0.0024	0.0024
R18072		11/13/2018	Broward Development II	1870 State Road 84	1300 SF office space	6/13/2019	OPEN					0.00020	C-27	BLD-CPAV-19100007 (SITE WORK MASTER)	0.0002	0.0002
R18080		12/11/2018	Village View	640 North Andrews Avenue	100 multifamily affordable residential units	6/24/2019	2/7/2020	7/8/2019	1/29/2020			0.02505	A-21	BP 19070536	0.02505	0.02505
R19013		2/26/2019	8th Avenue Townhomes	507 NW 8th Avenue	5 two-story townhomes	7/11/2019	12/13/2019	OPEN				0.00150	A-36		0.0015	0.0015
R19017		3/12/2019	Gunther Mazda	1800 S State Road 7	12,800 SF showroom, office, and service reception area	7/18/2019	CLOSED	-			N/A	0.00060	C-2	APPLICATION WITHDRAWN		
R17071		12/12/2017	South Harbor Plaza	1300 - 1340 SE 17th Street	Change of use of office/merchandising to restaurant	7/2/2019	OPEN					0.00306			0.003056	0.003056
R18043		6/26/2018	Pearl Riverland	400 SW 27th Avenue	322 multi-family residential unit complex	10/10/2018	2/12/2019	6/24/2019	OPEN			0.05700	PRIVATE	BP 19062608	0.057	0.057
R19015		2/26/2019	Wave Landing	2806 NE 51st Street	5-story 10-unit multi-family building	7/29/2019	7/30/2019					0.00242	B-11		0.002415	0.002415
R19040		6/25/2019	Shoppes at Rio Vista	901 SE 17th Street	existing bank, development of three buildings (multi-tenant, resta	7/30/2019	12/2/2019	12/11/2019	OPEN			0.00183	D-43	BLD-CNC-19120005	0.001834	0.001834
R18034		5/22/2018	ICON 706	706 NW 1st Avenue	Construction of 10 townhomes and 74 apartments	8/2/2019	12/11/2019	OPEN				0.02087	A-104		0.020871	0.020871
R19014		4/9/2019	The Adderley (formerly West Village)	501 NW 7th Avenue	455-unit residential, ~13000 SF of retail, ~4000 SF of restaurant	8/21/2019	4/19/2020	OPEN				0.11466	A-36		0.114658	0.114658
R19033		5/28/2019	Hoover Architectural	844 NW 9th Avenue	on of two existing buildings and enclosure of an outdoor manufact	9/3/2019	11/14/2019	OPEN				0.00258	A-104		0.002579	0.002579
R19026		4/23/2019	Flagler 2	801 - 819 NE 2nd Avenue	long warehouses (~24,000 SF) to a mixed-use retail and commec	9/1/2019	OPEN					0.00392	A-11		0.003915	0.003915
R19031		5/14/2019	Hilton Marina	1881 SE 17th Street	3-story building with 21,800 SF of office, ~2,600 SF of restaurant	9/13/2019	OPEN					0.00000	PRIVATE			
R19041		6/25/2019	Healthy Housing Foundation (HHF) Apartments	409 SE 8th Street	500 residential one-bedroom units	9/16/2019	OPEN					0.11925	A-11		0.11925	0.11925
R19037		6/11/2019	627 N Federal Highway	627 N Federal Highway	ing containing a fitness center, movie theater, restaurants, and re	12/10/2019	4/27/2020	OPEN				0.01648	A-21		0.016476	0.016476
R19055		8/27/2019	LMC Crew Lounge	2001 SW 20th Street	Change of use from office to restaurant (~2600 SF)	9/26/2019	OPEN	7/11/2019	8/13/2019			0.00146	PRIVATE	BP 19071048 (Work was completed prior to permittr	0.001455	0.001455
ZR19003		8/27/2019	Sherwin Williams	1051 NE 4th Avenue	Two (2) one-story commercial buildings totalling 14,650 SF	11/1/2019	OPEN					0.00247				

PLN-AR-20030001	Admin	FPL/Wingate Service Center	3000 NW 19th Street	New fleet building and new ice house building	8/3/2020	OPEN		A-31	0.000107	0.000081
PLN-SITE-20040013	5/26/2020	Zen on 17th	916 NE 17th Avenue	18-unit townhome development replacing 6 existing single-family	8/5/2020	OPEN		A-19	0.002769	0.0021
PLN-SITE-20050003	6/9/2020	7-ELEVEN	816 SE 17th Street	New gas station and 7-Eleven convenience store to replace existi	8/5/2020	OPEN		D-55	0.000274	0.000208
PLN-Site-20020002	3/10/2020	Temporary Fire Station #13	735 N. Fort Lauderdale Beach Boulevard	Temporary fire station on vacant land	8/21/2020	OPEN		D-41	0.000316	0.000184
PLN-AR-20040023	Admin	Positive Health Alliance	906 W Sunrise Blvd, Suite A	Conversion of retail store to medical office	9/15/2020	OPEN	0.00017	A-104	0.000227	0.000171
PLN-SITE-200600001	6/3/2020	Seven Seas	1490 W BROWARD BLVD	Demo of the existing boat sales office and converting former mec	9/8/2020	OPEN	0.00074	A-4	-0.000972	-0.000737
PLN-AR-20060017	6/19/2020	Harbor Beach Outparcel	1717 SE 1st St	New Car Dealership	8/10/2020	OPEN	0.00045	D-44	0.000596	0.000452
TOTAL									4.782205	4.61785

Impact of Committed Flows on NAPOT by Pump Station

	Current NAPOT (hours)	Committed Flow (MGD)	Projected NAPOT (hours)	Δ (Committed NAPOT) (hours)	Duty Point Flow Rate (GPM)
A-1	4.9	0.008000	5.1	0.19	700
A-7	12.0	1.530792	24.8	12.76	2000
A-8	4.5	0.042538	5.9	1.42	500
A-10	5.2	0.117088	7.6	2.44	800
A-11	5.9	0.254443	9.9	4.04	1049
A-12	4.2	0.056694	6.6	2.36	400
A-13*	-	0.000000	-	-	-
A-14	11.3	0.047247	12.1	0.78	1005
A-16	8.2	0.061560	9.9	1.71	600
A-17	4.5	0.037296	5.2	0.74	843
A-18	13.5	0.002786	13.5	0.05	940
A-19	7.5	0.012561	7.8	0.28	750
A-20	6.4	0.006900	6.6	0.18	630
A-21	7.2	0.943109	23.3	16.07	978
A-23	6.2	0.021102	6.6	0.44	800
A-27	9.7	0.000599	9.7	0.02	600
A-28	7.8	0.047325	9.1	1.31	600
A-36	8.0	0.134028	10.4	2.35	950
A-42	1.7	0.080248	4.9	3.17	422
A-45	3.7	0.003000	3.8	0.07	747
A-48	2.4	0.002000	2.5	0.08	400
A-54	2.0	0.000000	2.0	0.00	1076
A-55	4.1	0.000000	4.1	0.00	132
A-56	3.3	0.000318	3.3	0.01	534
A-57	2.4	0.004083	2.7	0.26	260
A-59	2.1	0.000000	2.1	0.00	390
A-95	2.8	0.001242	2.9	0.07	300
A-104	1.3	0.000000	1.3	0.00	1269
A-105	15.6	0.000000	15.6	0.00	400
B-2	3.8	0.001800	3.8	0.02	1200
B-3	6.0	0.006000	6.2	0.22	450
B-4	6.6	0.057018	8.0	1.36	700
B-5	6.7	0.000000	6.7	0.00	871
B-9	6.1	0.000000	6.1	0.00	700
B-11	7.2	0.004415	7.3	0.11	700
B-12	5.6	0.001804	5.7	0.05	600
B-14	17.1	0.024919	17.4	0.26	1600
B-17	4.6	0.002145	4.7	0.14	250
C-2	7.6	0.000000	7.6	0.00	930.7
C-8	2.8	0.000231	2.8	0.01	630
C-10	1.6	0.004000	1.7	0.08	800
C-12	1.8	0.005000	2.0	0.18	460
C-13	2.9	0.001600	2.9	0.05	550
C-19	1.5	0.003600	1.6	0.09	641
C-20	2.8	0.015900	3.2	0.40	662
C-22	3.6	0.014729	7.5	3.93	62.5
C-26	2.4	0.002000	2.4	0.03	1000
C-27	4.8	0.000200	4.8	0.02	190
C-28	1.8	0.001500	1.9	0.06	389
D-10	10.8	-0.000046	10.8	0.00	300
D-11	20.5	0.002699	20.8	0.28	160
D-31	4.4	0.091374	6.9	2.54	600
D-32	3.3	0.190241	17.7	14.41	220
D-35	4.3	0.028442	5.2	0.95	500
D-40	4.8	0.001250	4.8	0.02	1053
D-41	9.9	0.079034	14.0	4.13	319
D-43	9.9	0.021004	10.3	0.36	985
D-44	4.5	0.025552	4.9	0.35	1200
D-55	3.0	0.040706	4.8	1.79	380
E-2	4.6	0.057681	5.8	1.20	800
E-3	9.4	0.000000	9.4	0.00	563
E-4	1.2	0.064542	3.9	2.69	400
E-5	6.7	0.000000	6.7	0.00	600
E-6	3.5	0.005000	3.6	0.10	800
E-12	2.6	0.006800	2.7	0.11	1040

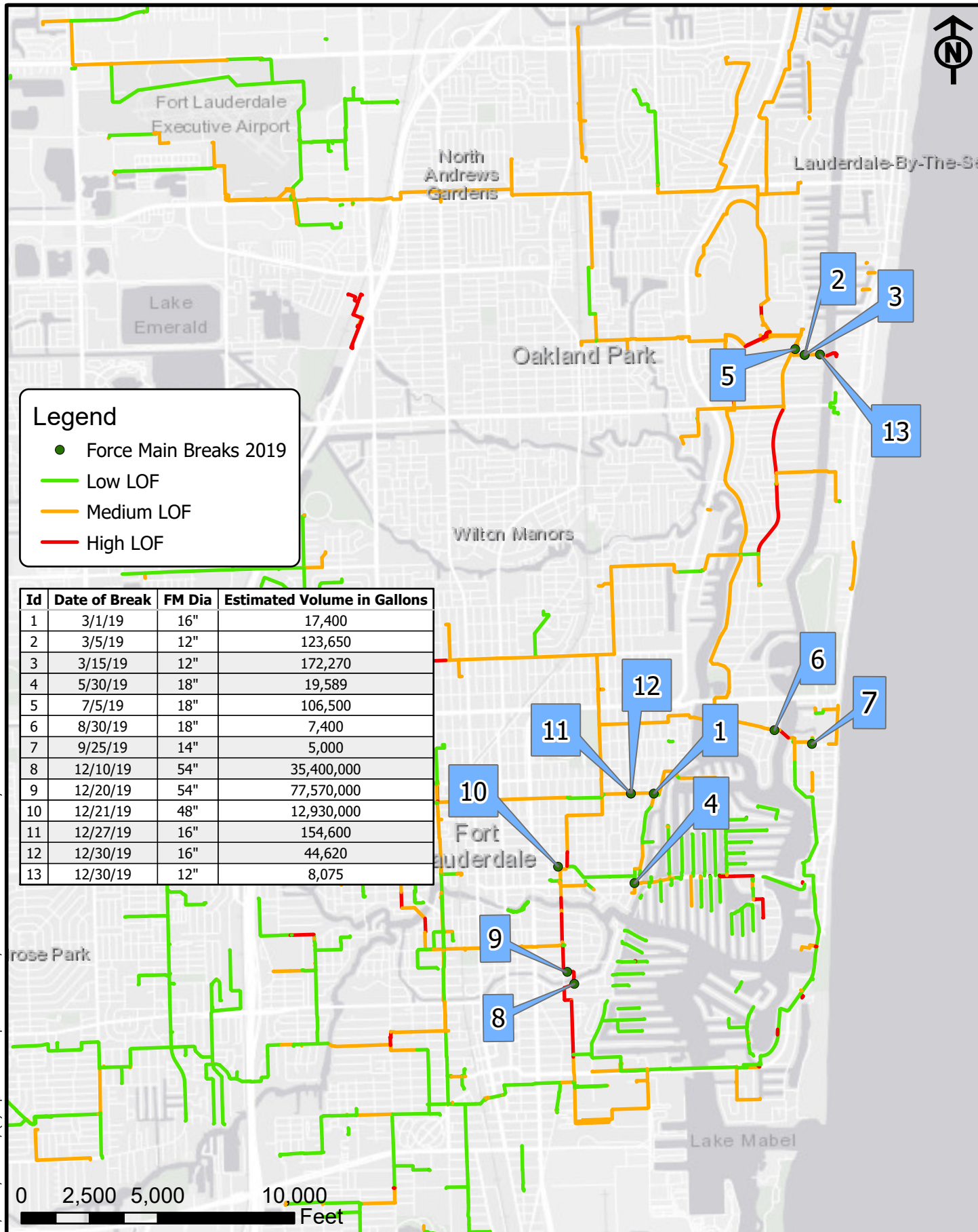
Total Committed Flows (including private PS, etc.): 4.384 MGD

Legend

NAPOT > 8 Hrs

NAPOT > 10 Hrs

*Committed Flow for A-13 is also included within A-7 committed flow until A-13 is placed into service



Legend

- Force Main Breaks 2019
- Low LOF
- Medium LOF
- High LOF

Id	Date of Break	FM Dia	Estimated Volume in Gallons
1	3/1/19	16"	17,400
2	3/5/19	12"	123,650
3	3/15/19	12"	172,270
4	5/30/19	18"	19,589
5	7/5/19	18"	106,500
6	8/30/19	18"	7,400
7	9/25/19	14"	5,000
8	12/10/19	54"	35,400,000
9	12/20/19	54"	77,570,000
10	12/21/19	48"	12,930,000
11	12/27/19	16"	154,600
12	12/30/19	16"	44,620
13	12/30/19	12"	8,075

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 Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



CITY OF FORT LAUDERDALE

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Print Date: 2/25/2021 9:24 AM

Printed By: E. Johnson

Review By: P.Carney

City of Fort Lauderdale

**Force Main Breaks 2019 &
FM Likelihood of Failure (LOF)**

Figure 2

Development of Risk Matrix

Develop likelihood of failure (LOF) and consequence of failure (COF) criteria based on the vulnerability and criticality of the asset, respectively. Calculate risk score for each pipe segment as the product of LOF and COF scores per the equation below (WEF 2007).

$$Risk = LO$$

Likelihood of Failure

Table 1 - LOF Scoring Criteria

Likelihood Category	Negligible = 1	Unlikely = 2	Possible = 4	Likely = 7	Very Likely = 10
Years since pipe installation	< 20 years	≥ 20 years to < 30 years	≥ 30 years to < 40 years	≥ 40 years to < 50 years	≥ 50 years or unknown
Pipe material	HDPE, PVC, or PE	DIP ≤ 30 years old	Cast-iron pipe	- DIP ≥ 30 years old/DIP without date of installation - AC pipe - Prestressed concrete cylinder pipe installed in the 1970s	Unknown
Pipe break information (from 2014 through 2018)	0 breaks	Not used	No historical pipe break information available/provided from 2014 through 2018	At least one break in pipe segment	Two or more breaks in pipe segment
FM peak operating pressures	Modeled FM peak operating pressure < 60 psi	Not used	Modeled FM peak operating pressure between 60 and 100 psi	Not used	Modeled FM peak operating pressure > 100 psi
Pipe layout profile	No ARV/high point on segment	Not used	One ARV/high point on segment	Not used	Not used
Pipe maintenance	Not used	Not used	Pipe maintenance records are not available	Not used	Not used
External and internal physical factors affecting the asset/proximity to salt water intrusion	- Pipe is above water table and outside the salt water intrusion line. - PVC, HDPE, and PE are the pipe materials.	Pipe is below the water table and outside of the salt water intrusion line.	Pipe is above water table and in salt water intrusion line.	Pipe is within groundwater and inside the salt water intrusion line or brackish.	Pipe is within groundwater and inside the salt water intrusion line.

Table 2 - LOF Category Weighting Factor

LOF Category	Weights (percent)
Years since pipe installation	16
Pipe material	17
Pipe break information (from 2014 through 2018)	23
FM peak operating pressures	16
Pipe layout profile	7
External and internal physical factors affecting the asset/proximity to salt water intrusion	14
Pipe maintenance (includes cleaning techniques, such as flushing and rodding, relief valve exercising, and previous inspections, if performed)	7

Consequence of Failure Score

Table 3 - COF Scoring Criteria

Consequence Category	Negligible = 1	Low = 4	Moderate = 7	Severe = 10
Pipe diameter	< 8 inches	≥ 8 and < 24 inches and unknown	≥ 24 and < 42 inches	≥ 42 inches
Proximity to potable water wellfield or private water wells	No well located within 1-mile radius	Well located within 0.5-mile to 1-mile radius	Well located within 0.25-mile to 0.5-mile radius	Well located within 0.25-mile radius
Residential and essential services impact	- No essential service facility is nearby. - Only low-density residential will be impacted. - Proximity to waterway is greater than 1/8 mile and low-density residential.	- Discharge to canal or another waterway will be possible. - Medium-density residential will be impacted. - Proximity to waterway is within 1/8 mile and low- or medium-density residential.	- Moderate priority essential services, such as railway, port, and industrial area, will be impacted. - High-density residential area will be impacted. - Highway crossing will be impacted. - Tourist and commercial areas, such as marinas, hotels, beaches, and parks, will be impacted. - Proximity to waterway is within 1/8 mile and railways, ports, industrial, and/or high density residential.	- High-priority essential service, such as hospitals, schools, or downtown areas and convention centers, will be impacted. - Proximity to waterway is within 1/8 mile and high priority essential service.
System reliability	- Pipe has redundancy if greater than 24 inches in diameter. - No sanitary sewer overflows have occurred. - Rerouted average dry-weather flow is less than 2 mgd (1,400 gpm).	- Pipe has limited redundancy, and flow could be rerouted elsewhere in system during repair. - Rerouted average dry weather flow is 2 mgd (1,400 gpm) or more and less than 4 mgd (2,800 gpm).	- Pipe has limited redundancy with difficulty rerouting flow elsewhere in system during repair. - Rerouted average dry-weather flow is 4 mgd (2,800 gpm) or more and less than 7 mgd (4,900 gpm).	- Pipe has no redundancy and no ability to reroute flow elsewhere in the system during repair. - Rerouted average dry-weather flow is 7 mgd (4,900 gpm) or more.
Financial impact on utility	Direct failure cost is less than \$25,000.	Direct failure cost is \$25,000 or more but less than \$50,000	Direct failure cost is 50,000 or more and less than \$100,000	Direct failure cost is \$100,000 or more.
Community impact	Minor disruption; no narrow streets will impede repair.	Minor disruption; no narrow streets will impede repair.	Substantial but short-term disruption will	Long-term impact will occur.

	Minor service interruption; service restored without public reaction.	Minor service interruption; service restored without public reaction.	- occur due to narrow streets. - Localized impacts will occur on prominent businesses or residences.	- Area-wide disruption will occur. - Disruptive impacts to multiple prominent businesses or residences will occur. - Public will express dissatisfaction with utility services.
Environmental compliance	Volume of unauthorized discharge is less than 6,972 gal.	Volume of unauthorized discharge is 6,972 gal or more and less than 13,917 gal.	Volume of unauthorized discharge is 13,917 gal or more and less than 100,023 gal.	Volume of unauthorized discharge is 100,023 gal or more.

Notes:

gal = gallon(s)

gpm = gallon(s) per minute

mgd = million gallon(s) per day

Table 4 - COF Category Weighting Factor

COF	Weight (percent)
Pipe diameter	10
Proximity to potable water wellfield or private water wells	11
Residential and essentials services impact	17
System reliability	21
Financial impact on utility	7
Community impact	14
Environmental compliance	20

Risk Analysis

Figure 5 - Risk Score Prioritization Matrix

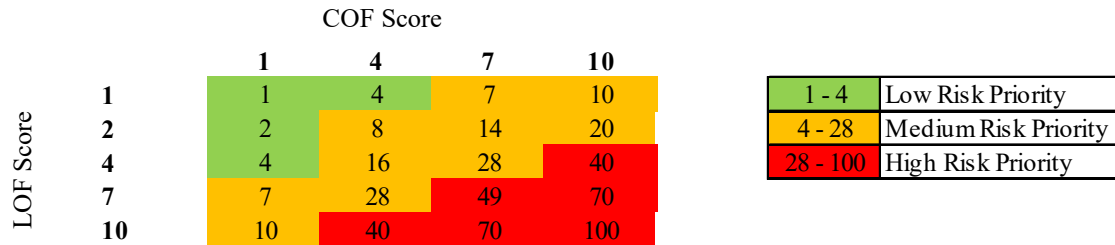


Table 5 summarizes the miles of City-owned FMs and results of the initial risk analysis. The final risk analysis results with the Tier 1 condition assessment included are presented in Section 5.

Table 5 – Summary of Risk Analysis and Implementation Plan

Item Description	Miles of FM
Total miles of active City-owned FMs	110
No further assessment – low LOF	37
No further assessment – high LOF	9
No further assessment – Phase II CO or CIP project	22
Tier 1 – Records review and field reconnaissance	42
Tier 1 – Soil survey and corrosion analysis	42

Water & Sewer Breaks Report 2021 w/Mapping

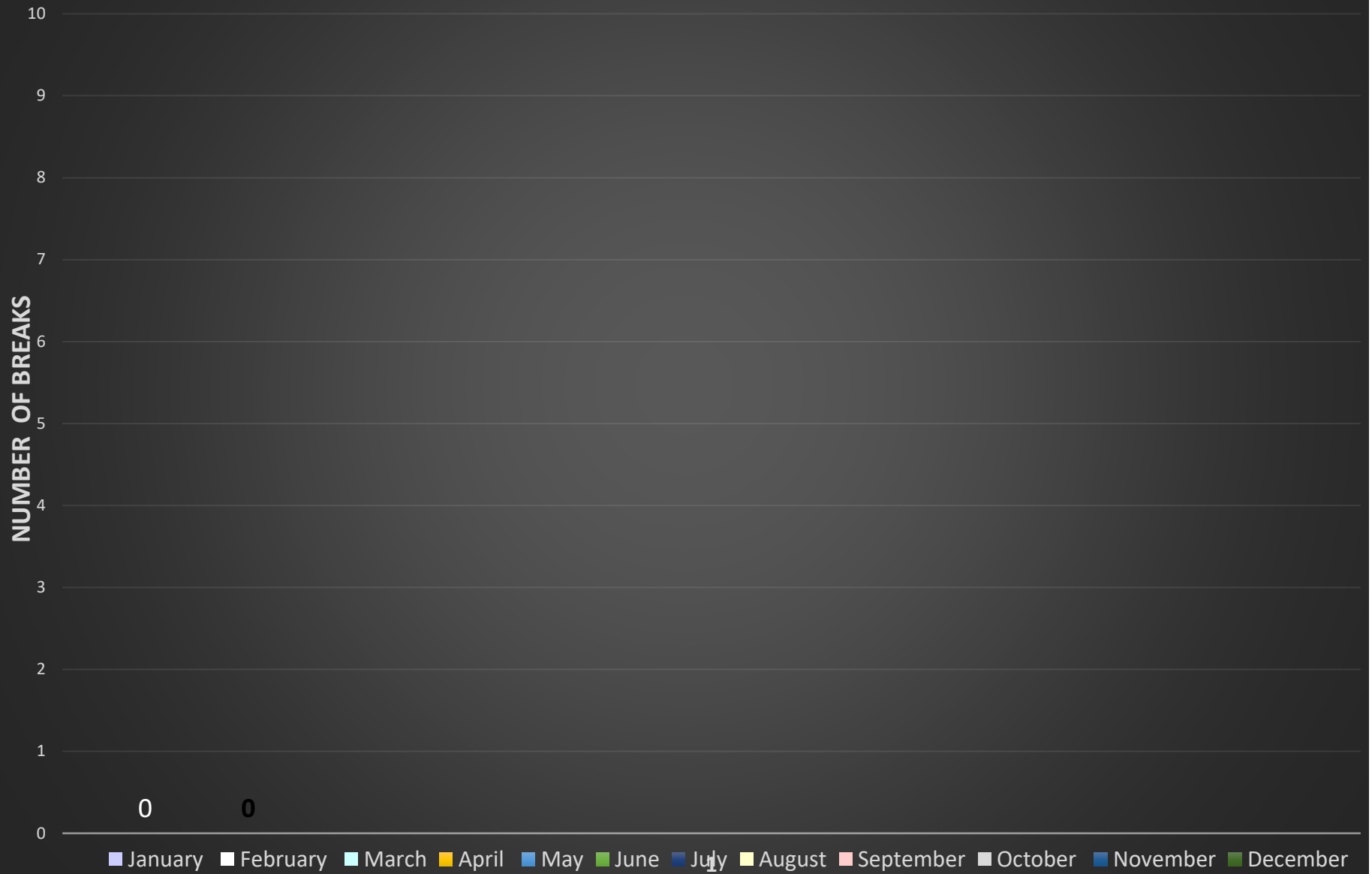
Total Water Main Breaks by Month (2021)

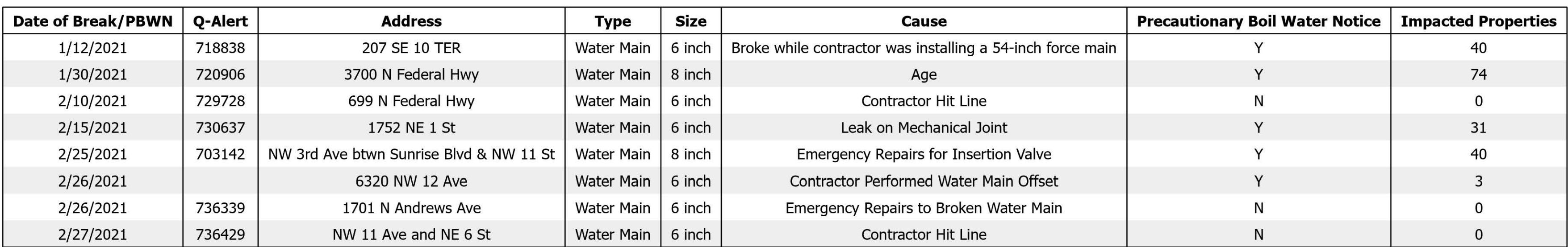
January 2021 - December 2021



Total Force Main Breaks by Month (2021)

January 2021 - December 2021





CIP Financial Report

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 March 26, 2021	% Spent to Date as of March 26, 2021	Encumbrances as of March 26, 2021	Remaining Balance as of March 26, 2021
Finance	21,560,265.00	16,789,682.00	78%	1,227,587.21	3,542,995.79
Fiveash Upgrades	25,928,046.00	5,249,119.24	20%	351,036.99	20,327,889.77
I&I	17,303,547.00	12,803,659.69	74%	1,146,079.35	3,353,807.96
Master Plan/Report	1,501,455.00	798,306.07	53%	369,864.60	333,284.33
Peele Dixie Upgrades	310,000.00	63,470.50	20%	39,907.50	206,622.00
Sewer Basin	1,788,257.00	1,233,267.12	69%	100,028.75	454,961.13
Sewer Force main	110,910,548.64	57,924,458.89	52%	18,310,506.84	34,675,582.91
Watermain	25,245,660.00	19,160,388.00	76%	2,466,744.21	3,618,527.79
Grand Total	204,547,778.64	114,022,351.51	56%	24,011,755.45	66,513,671.68

No Changes to Total Budget Amounts since 3/1/2021 ITFAC meeting

WATER & SEWER BOND 495 & CENTRAL REGION BOND 496

Index Code / Project Title	Category	Project Status	Budget	Actuals as of March 26, 2021	% Spent to Date as of February 24, 2021	Encumbrances	Remaining Balance as of March 26, 2021
FD495.01 WATER & SEWER MASTER PLAN 2017	Finance	Implementation	19,576,411.00	15,005,370.00	77%	1,214,542.36	3,356,498.64
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017	Finance	Implementation	1,983,854.00	1,784,312.00	90%	13,044.85	186,497.15
P10814.495 CENTRAL NEW RIVER W/MAIN RIVER CROSSING	Watermain	Design	1,632,562.00	133,706.41	8%	722,524.93	776,330.66
P10850.495 VICTORIA PARK A NORTH-SMALL WATERMAINS	Watermain	Construction	4,435,773.00	4,402,369.11	99%	33,403.49	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	5,412,665.28	97%	129,487.72	50,000.00
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB	I&I	Construction	4,268,936.00	3,121,330.84	73%	447,060.40	700,544.76
P11589.495 FIVEASH WTP DISINFECTION IMPROVEMENTS	Fiveash Upgrades	Construction	17,328,046.00	933,407.74	5%	284,264.18	16,110,374.08
P11901.495 VICTORIA PK STH SM WATERMAINS IMPROVEMNT	Watermain	Construction	5,149,658.00	5,100,836.06	99%	48,821.43	0.51
P11991.495 DOWNTOWN SEWER BASIN PUMP STATION A-7 REHABILITATION	I&I	Construction	2,000,000.00		0%		2,000,000.00
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS	I&I	Construction	1,258,983.00	582,056.00	46%	421,216.16	255,710.84
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB	I&I	Construction	4,183,475.00	3,687,607.57	88%	148,315.07	347,552.36
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	297,692.25	14%	55,603.75	1,722,204.00
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN	Sewer Basin	Bidding	1,254,020.00	1,222,607.61	97%	20,250.00	11,162.39
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	Complete	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	659,541.25	88%	46,157.43	46,301.32
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation & Planning	115,000.00	105,654.32	92%	3,904.51	5,441.17
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Design	4,784,890.00	313,362.80	7%	551,531.73	3,919,995.47
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM	Sewer Force main	Design	11,096,690.00	397,072.74	4%	800,856.80	9,898,760.46
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	69,924.00	1%	294.00	8,113,782.00
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT	Sewer Force main	Construction	3,313,090.00	517,071.63	16%	2,796,018.37	-
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	2,378,055.21	95%	11,020.00	110,924.79
P12391.495 BERMUDA RIVIERA SML WTRMN IMPROVEMENTS	Watermain	Construction	4,976,700.00	4,410,695.70	89%	415,164.70	150,839.60
P12395.495 PEELE DIXIE ELECTRICAL STUDIES	Peele Dixie Upgrades	Construction	210,000.00	42,016.50	20%	25,832.50	142,151.00
P12396.495 PEELE DIXIE SURGE PROTECTION UPGRADES	Peele Dixie Upgrades	Design	100,000.00	21,454.00	21%	14,075.00	64,471.00
P12399.495 FIVEASH WTP PCCP REPLACEMENT	Fiveash Upgrades	Project Initiation & Planning	3,880,000.00	33,511.00	1%	-	3,846,489.00
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	31,942.50	21%	20,347.50	97,710.00
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	Bidding	10,377.00	10,377.00	100%	-	-
P12407.495 SUBACQUEOUS FM CROSSING REINSTATEMENT	Sewer Force main	Cancelled	-	-	-	-	-
P12410.495 PUMP STATION C-1 REPLACEMENT	Sewer Force main	Design	620,000.00	1,740.00	0%	-	618,260.00
P12412.495 PUMP STATIONS A-16 UPGRADE	Sewer Force main	Design	3,000,000.00	2,610.00	0%	-	2,997,390.00
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE	Sewer Force main	Construction	580,000.00	462,246.12	80%	50,230.28	67,523.60

P12414.495 GRAVITY PIPE IMPV TO DWNTWN COL SYSTM	Sewer Force main	Bidding	3,143,000.00	184,944.15	6%	582,770.85	2,375,285.00
P12415.495 PUMP STATION A-7 UPGRADE	Sewer Force main	Construction	2,211,862.00	253,221.31	11%	1,756,607.09	202,033.60
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	8,397.51	5%	79,778.75	81,060.74
P12463.495 CORAL SHORES SML WATERMAIN IMPROVEMENTS	Watermain	Construction	1,118,998.00	13,072.00	1%	1,105,926.00	-
P12485.495 FIVEASH WTP FILTERS REHABILITATION	Fiveash Upgrades	Construction	120,000.00	53,227.19	44%	66,772.81	-
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP	Sewer Force main	Construction	24,725,379.00	22,485,509.19	91%	2,239,903.49	(33.68)
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP	Sewer Force main	Construction	35,750,000.00	26,815,474.96	75%	7,466,852.24	1,467,672.80
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	1,928,910.00	1,928,910.00	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	309,875.00	-	0%	-	309,875.00
P12618.495 DOLPHIN ISLES B-14 SEWER BASIN REHAB	Sewer Basin	Project Initiation & Planning	365,000.00	2,262.00	1%	-	362,738.00
P12619.495 BAYVIEW DR 16" FM TO PUMP STATION B-14	Sewer Force main	Design	2,570,000.00	3,306.00	0%	162,707.53	2,403,986.47
P12620.495 LAS OLAS MARINA PUMP STATION D-31	Sewer Force main	Project Initiation & Planning	2,500,000.00	-	0%	-	2,500,000.00
P12628.495 INTERLOCAL AGREEMENT WITH POMPANO BEACH	Master Plan/Report	Project Initiation & Planning	299,455.00	-	0%	299,455.00	-
GRAND TOTALS			#####	114,022,351.51	56%	24,011,755.45	66,513,671.68

Consent Order Projects Financial Report Summary
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Consent Order Projects by Category	Total Budget Amount	Actuals spent to Date as of March 26, 2021	% Spent to Date as of March 26, 2021	Encumbrances as of March 26,2021	Balance as of March 26, 2021
GTL Upgrades	600,000.00	110,695.00	18%	4,505.00	484,800.00
I&I	37,844,732.00	23,095,210.05	61%	8,207,558.53	6,541,963.42
Master Plan/Report	8,550,322.31	6,057,381.99	71%	1,175,768.60	1,317,171.72
Sewer Basin	2,195,642.05	2,163,242.37	99%	20,250.05	12,149.63
Sewer Force Main	135,427,098.68	81,316,481.26	60%	22,007,467.51	32,103,149.91
Stormwater	72,219,893.00	3,311,473.74	5%	5,652,363.52	63,256,055.74
Watermain	2,238,785.00	1,928,910.00	86%	-	309,875.00
Grand Total	259,076,473	117,983,394	46%	37,067,913	104,025,165

Changes to Total Budget Amounts since 3/1/2021 ITFAC meeting

Sewer Force Main Budget decreased by \$425,984.40 - March 2, 2021 Commission Meeting Budget Amendment transferred \$425,984.40 from completed project P12352.454 South Middle River Force Main River Crossing to non-consent order project, P12631.454 - Prospect Wellfield Diesel Tank Replacement to fund the construction contract award.

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Index Code / Project Title	Category	Project Status	Budget	Actuals as of March 26, 2021	% Complete	Encumbrances as of March 26, 2021	Remaining Balances as of March 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	5,412,665		129,488	50,000
P11563 TOTAL PROJECT COSTS	I&I	Construction	7,198,772	6,709,505	93%	439,266	50,001
P11566.454 RIO VISTA SEWER BASIN D-43 REHAB			3,123,431	1,799,078		977,073	347,280
P11566.482 RIO VISTA SEWER BASIN D-43 REHAB			381	381		-	-
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB			4,268,936	3,121,331		447,060	700,545
P11566 TOTAL PROJECT COSTS	I&I	Construction	7,392,748	4,920,790	67%	1,424,133	1,047,825
P11868.470 RIVER OAKS STORMWATER ANALYSIS			957,578	887,514		19,011	51,053
P11868.473 RIVER OAKS STORMWATER ANALYSIS			37,975,000	286,940		3,396,137	34,291,923
P11868 TOTAL PROJECT COSTS	Stormwater	Bidding	38,932,578	1,174,454	3%	3,415,148	34,342,976
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	183,142		2,167,520	28,124,338
P11842 TOTAL PROJECT COSTS	Stormwater	Design	32,403,448	2,004,296	6%	2,179,671	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	3,314,990		5,370,171	1,159,733
P11991.482 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			3,335	3,335		-	-
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			2,000,000	-		-	2,000,000
P11991 TOTAL PROJECT COSTS	I&I	Construction	11,848,229	3,318,325	28%	5,370,171	3,159,733
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			1,977,469	1,206,987		-	770,482
P12049.482 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			8,255	8,255		-	-
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			1,258,983	582,056		421,216	255,711
P12049 TOTAL PROJECT COSTS	I&I	Construction	3,244,707	1,797,298	55%	421,216	1,026,193
P12055.454 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,976,801	2,661,684		404,457	910,659
P12055.482 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			-	-		-	-
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			4,183,475	3,687,608		148,315	347,552
P12055 TOTAL PROJECT COSTS	I&I	Construction	8,160,276	6,349,292	78%	552,772	1,258,212
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	4,124,448		65,719	264,732
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	4,602,462	93%	65,719	264,733
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		20,250	11,162
P12202 TOTAL PROJECT COSTS	Sewer Basin	Bidding	1,460,163	1,427,763	98%	20,250	12,150
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			874,016	874,015		0	(0)
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			609,000	609,000		-	1
P12352 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,483,016	1,483,015	100%	0	1
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	401,682		55,430	0
FD496.01 Water & Sewer Regional Master Plan 2017			107,224	94,222		13,002	0

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Index Code / Project Title	Category	Project Status	Budget	Actuals as of March 26, 2021	% Complete	Encumbrances as of March 26, 2021	Remaining Balances as of March 26, 2021
P12367 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	645,837	577,406	89%	68,432	0
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			200,279	198,662		1,617	(0)
PBS670501 LOHMEYER REGIONAL PLANT SUPPORT			9,811	9,732		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	659,541		46,157	46,301
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS			115,000	105,654		3,905	5,441
P12375 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	2,543,200	1,145,928	45%	80,101	1,317,172
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	313,363		551,532	3,919,995
P12383 TOTAL PROJECT COSTS	Sewer Force Main	Design	6,062,139	313,363	5%	551,532	5,197,244
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM			11,096,690	397,073		800,857	9,898,760
P12384 TOTAL PROJECT COSTS	Sewer Force Main	Design	11,096,690	397,073	4%	800,857	9,898,760
P12387.496 EFFLUENT MAIN REHABILITATION			8,184,000	69,924		294	8,113,782
P12387 TOTAL PROJECT COSTS	Sewer Force Main	Bidding	8,184,000	69,924	1%	294	8,113,782
P12388.454 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,761,244	29,711		67,987	3,663,546
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,313,090	517,072		2,796,018	-
P12388 TOTAL PROJECT COSTS	Sewer Force Main	Design	7,074,334	546,783	8%	2,864,005	3,663,546
P12389.454 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			988,620	17,088		30,417	941,116
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	237,922	8%	1,922,131	941,117
P12390.454 16" FM ALONG LAS OLAS BLVD PHASE 2			2,393,000	637,577		77,199	1,678,224
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2			2,500,000	2,378,055		11,020	110,925
P12390 TOTAL PROJECT COSTS	Sewer Force Main	Construction	4,893,000	3,015,632	62%	88,219	1,789,149
P12413.454 FM FROM PUMP STN D-35 TO D-36 UPSIZE			900,000	291,943		400,878	207,179
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE			580,000	462,246		50,230	67,524
P12413 TOTAL PROJECT COSTS	Sewer Force Main	Construction	1,480,000	754,189	51%	451,108	274,703
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	110,695		4,505	484,800
P12529 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS	GTL Upgrades	Project Initiation & Planning	600,000	110,695	18%	4,505	484,800
P12566.451 REDUNDANT SEWER FM NORTH TO GTL WWTP			4,524,621	2,360,207		1,671,938	492,476
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP			24,725,379	21,272,594		3,452,818	(34)
P12566 TOTAL PROJECT COSTS	Sewer Force Main	Construction	29,250,000	23,632,801	81%	5,124,757	492,442
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP			35,750,000	24,143,482		10,138,845	1,467,673
P12567 TOTAL PROJECT COSTS	Sewer Force Main	Construction	35,750,000	24,143,482	68%	10,138,845	1,467,673
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			259,076,473	117,983,394	46%	37,067,913	104,025,165