



Digitally signed by Zack Waldroup Date: 2020.07.01 11:21:25 -04'00'

Project Name: Beverly Hills Septic Tank Phase Out
Permits: 2019-1811-WI8539 (Water) 2019-1811-SI8540 (Sewer)
Issued: 7/1/2020 Expires: 7/1/2022
Permitted By: Zack Waldroup

Permit for Construction of an Extension to a JEA Drinking Water Distribution System and/or JEA Wastewater Collection/Transmission System

INSTRUCTIONS: This form shall be completed and submitted (in duplicate) to JEA along with engineering plans, and design data (signed and sealed). Check all that apply: (Note: This permit is for JEA or future JEA owned and operated facilities. No permit fee required)

- Permit Submittal options: New Permit Submittal, Permit Modification Submittal, This project involves an extension to a JEA Water Distribution System, This project involves additions to JEA Wastewater Collection/Transmission System

I. NAME, DESCRIPTION, AND LOCATION OF PROJECT:

Project Name: Beverly Hills West Septic Tank Phase-Out
Project Description: Construction of a sewer collection and transmission system to eliminate septic tanks in the Beverly Hills West area on the south side of the Ribault River in northwest Jacksonville. Existing old and undersized water mains will also be replaced, streets will be repaved, and storm pipes replaced as needed.

- Project Location (attach Project Location Map): County*: Duval Vicinity: South bank of Ribault River W/o Lem Turner Rd and N/o Edgewood Ave

II. STATEMENT BY PERMITTEE:

I, the undersigned owner or authorized representative of JEA am fully aware that the statements made in this application are true, correct and complete to the best of my knowledge and belief. I, the undersigned am fully aware that it is my responsibility to operate and maintain this facility in such a manner as to function as it was designed. I agree to retain a professional engineer to observe that construction of the project is in accordance with all applicable JEA standards and approved engineering plans. I am fully aware that we must obtain a letter of clearance from JEA before we place this project into service. Also, I am fully aware that, if we sell or legally transfer ownership of this project before obtaining a letter of clearance from JEA, we must submit to JEA a letter of request to transfer this permit within 30 days after such sale or legal transfer of ownership. Upon JEA permit approval, I understand that the terms, general and specific conditions, requirements, limitations, and restrictions set forth herein and as defined within the approved permit, and within the latest version of the JEA Water & Sewer Standards Manual are "Permit Conditions" and as such are binding upon the permittee and are enforceable pursuant to the authority of JEA and/or the Florida Department of Environmental Protection (FDEP). I understand that JEA and FDEP may review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the Permittee, its agents, or representatives. Any unauthorized deviation from the approved drawings, JEA specifications and standards, or conditions of the approved permit may constitute grounds for revocation and enforcement action by JEA and/or FDEP.

Mickhael Sulayman, Manager, Project Management

Signature and Date

Name and Title (please type or print)

Company Name: JEA

Address: 21 Church Street Tower 4

City: Jacksonville State: Florida Zip: 32202

Office Phone No.: (904) 665-8713 Fax. No.: (904) 665-7455

Email Address: sulams@jea.com

III. STATEMENT BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF DESIGNING THE PROJECT:

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that I have expertise in the design of water distribution systems and/or wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design and construction plans for this project complies, where applicable, with Chapter 62-555, F.A.C., Chapter 62-604, F.A.C., and the latest versions of the JEA Developer Installed Systems Manual, JEA Water & Sewer Standards, Details & Materials Manual, JEA Backflow Prevention Program, and other applicable JEA standards. I certify that, to the best of my knowledge, the location and size of existing water mains, reclaimed water lines, force mains, sanitary sewers, storm sewers, and other utilities, as well as the location and size of the proposed utilities, are shown on the plans. Also, I certify that all water mains, gravity sewer mains, and force mains associated with this application are 12-inch in size or less and are located wholly within Duval County. The design includes procedures for keeping existing utilities in service or minimizing outages. To the best of my knowledge, this project does not include installation of any new utilities in areas of ground water or soils for which there is documentation of the presence of petroleum products or other contaminants at concentrations exceeding groundwater standards.

Kenneth A. Fraser PE# 57452

Signature and Date and Seal

Name and License Number (please type or print)

Company Name: Jones Edmunds & Associates, Inc.

Address: 8657 Baypine Road, Building 5, Suite 300

City: Jacksonville State: Florida Zip: 32256

Office Phone No.: (904) 744-5401 Fax. No.: (904) 755-6267

Email Address: kfraser@jonesedmunds.com



Building Community.

To be completed by JEA only:

Permit No. _____

Date of Issue: _____

Approved by: _____

Note: This permit will expire 2 years after date issued

Permit for Construction of an Extension to a JEA Drinking Water Distribution System and/or JEA Wastewater Collection/Transmission System

INSTRUCTIONS: This form shall be completed and submitted (in duplicate) to JEA along with engineering plans, and design data (signed and sealed).

Check all that apply:

(Note: This permit is for JEA or future JEA owned and operated facilities. No permit fee required)

- New Permit Submittal: (Availability No. (if available): 2019-1811)
- Permit Modification Submittal: (Associated JEA Permit No.: _____ Date of Issue: _____)
- This project involves an extension to a JEA Water Distribution System
- This project involves additions to JEA Wastewater Collection/Transmission System

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County*: Duval

Vicinity: South bank of Ribault River W/o Lem Turner Rd and N/o Edgewood Ave

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Signature and Date

Mickhael Sulayman, Manager, Project Management

Name and Title (please type or print)

Company Name: JEA

Address: 21 Church Street Tower 4

City: Jacksonville State: Florida Zip: 32202

Office Phone No.: (904) 665-8713 Fax. No.: (904) 665-7455

Email Address: sulams@jea.com

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Kenneth A Fraser

Digitally signed by Kenneth A Fraser
Date: 2020.06.04 07:51:12 -04'00'

Kenneth A. Fraser PE# 57452

Signature and Date and Seal

Name and License Number (please type or print)

Company Name: Jones Edmunds & Associates, Inc.

Address: 8657 Baypine Road, Building 5, Suite 300

City: Jacksonville State: Florida Zip: 32256

Office Phone No.: (904) 744-5401 Fax. No.: (904) 755-6267

Email Address: kfraser@jonesedmunds.com

KENNETH A. FRASER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 57452

JEA Form No. JEA-3600-01-01-01
EFFECTIVE JULY 15, 2001, REVISED 12/15/04
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY KENNETH A. FRASER ON DATE INDICATED HERE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



Building Community.

WATER DESIGN AND CONSTRUCTION
REQUIREMENTS CHECKLIST
(TO BE COMPLETED BY THE PROFESSIONAL DESIGN ENGINEER
WHEN APPLYING FOR A JEA WATER PERMIT)

Project Name: Beverly Hills West Septic Tank Phase-Out Permittee: JEA

If this project is being designed to comply with the following requirements, initial before the requirements. If any of the following requirements do not apply to this project, mark "NA."

General

- KAF (1) Signed and sealed water hydraulic calculations supporting fire flow requirements including fire hydrant flow test results and a letter or review and approval from the Fire Marshall's office.
- KAF (2) Note referencing compliance with JEA Water and Sewer Standards Manual and JEA DIS Manual.
- KAF (3) All pipe construction and testing conform to the appropriate AWWA standards.
- KAF (4) Pressure and leakage testing specified in accordance with AWWA C600 and C605 or other applicable standards.
- NA (5) Proper water demand information is provided below (Equivalent Dwelling Unit = 350 gals per day).
- KAF (6) Design Plans signed and sealed by a professional engineer registered in Florida indicating:
 - a. Benchmark (Permanent benchmark required or a temporary benchmark referenced to a permanent benchmark)
 - b. Plan views of entire project to include location and pipe size of new water mains; gravity sewers and force mains; trench details; manhole details; joint details and material specifications
 - c. Location of existing water mains/reclaimed water lines/force mains/ gravity sewers/storm sewers and water wells
 - d. Restrained joints are specified and general details shown
- KAF (7) Minimum water main and sewer collection/transmission system or reclaimed water main separations are maintained per F.A.C. 62-555 as measured from the pipes outside edges:
 - a. Horizontal Separation of at least 6 feet and preferably 10 feet maintained. Horizontal separation between water main and gravity type sewers may be reduced to three (3) feet where the water main is laid at least six (6) inches above the top of the sewer.
 - b. Vertical separation of at least six (6) inches and preferably twelve (12) inches maintained at crossings between water main and gravity or vacuum-type sanitary sewer or storm sewer. Vertical separation of at least twelve (12) inches maintained at crossings between water main and pressure type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water.
 - c. At crossings, pipe joints are as far apart as possible and equidistant from the point of crossing. Water main is on top. A full length of pipe is to be centered at the crossing.

Water Main Requirements

- KAF (8) Water mains are arranged to form a grid of looped distribution.
- KAF (9) The use of dead end mains is minimized.
- KAF (10) Minimum cover for water mains less than 24 inches in diameter is 30 inches in unpaved areas and 36 inches in paved areas with a maximum of 60 inches in arterial or collector roadways where construction is anticipated. Minimum cover for water mains 24 inches in diameter or greater is 36 inches (paved and unpaved areas) with a maximum of 84 inches.
- KAF (11) Minimum size for water main providing fire protection and serving fire hydrants in residential is shown to be 6 inches in diameter.
- NA (12) Minimum size for water mains in non-residential areas is 8 inches in diameter when in a closely interconnected grid and 12 inches in diameter if not closely interconnected.
- KAF (13) No record of historical organic or gasoline contamination within 1500 feet of the area of proposed PVC pipe installation.
- KAF (14) No water pipe passes through or comes in contact with any part of a sewer manhole.
- KAF (15) Proper water main disinfection is in accordance with AWWA C651 and JEA Standards.



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REQUIREMENTS CHECKLIST
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Project Name: Beverly Hills West Septic Tank Phase-Out

Permittee: JEA

Service Requirements

KAF (16) Water services are 1-inch for single family residences or double 1 ½ inch long side services for adjacent lots .

KAF (17) No more than five (5) domestic service connections are shown on a 2-inch water main.

NA (18) Gang water services (5 or more services in one area) are shown in accordance with detail W-1 of the JEA Water and Sewer Standards Manual.

KAF (19) The maximum length of a water services does not exceed 100 feet.

Meter Requirements

NA (20) Multi-family or commercial developments serving multiple tenants where the project is under single ownership is metered by one of the following options:

- a. Master metered with private on-site utilities
- b. Individual JEA meters with a master backflow prevention device and private on-site utilities
- c. Individual JEA meters with JEA on-site utilities in appropriate easements.

Valve Requirements

KAF (21) Valves are shown on all water main branches in two directions on a tee and in three directions on a cross.

KAF (22) Valves are provided on water mains at a maximum of 500 foot intervals within high density residential, commercial or industrial developments and at a maximum of 800 foot intervals within residential areas.

KAF (23) On transmission mains with a limited number of service connections, valves are located at a maximum of 2500 foot intervals and at distribution branches where allowed by JEA.

KAF (24) No 2-inch water valves. A minimum 4-inch gate valve with a 4-inch by 2-inch reducer is shown where connecting a 2-inch main.

Fire Hydrant Requirements

KAF (25) Fire hydrants are on the same side of the road as the water main, at property corners just inside the right-of-way, and a minimum of 3 feet from the edge of pavement or back of curb.

KAF (26) Fire hydrants are located not more than 600 feet apart in single family residential areas and not more than 500 feet apart in commercial, industrial or multi-family residential areas.

NA (27) Fire hydrants within commercial, industrial or multi-family residential areas shall be served with a minimum 8-inch water main.

Backflow Prevention Requirements

NA (28) Adequate backflow prevention devices are provided at all proposed lift station, irrigation lines, commercial facilities, etc.

NA (29) Backflow prevention devices are located on private property within 10 feet of the meter, but outside of applicable meter easements.

Explanation for requirements marked "NA" above (including justification, documentation, assurances, and/or alternative as required by rule for exceptions to requirements listed above:

(5) Project only includes replacing existing water mains with equal to or larger size pipe. The only new water service connection is for the proposed new JEA lift station.

(12) The project area is entirely single-family residential.

(18) There are no gang water services included in the designed project.

(20) There are no multi-family nor commercial developments in the project area.

(27) There are no commercial, industrial, nor multi-family customers in the project area.

(29) This project only includes reconnecting existing water services.



Building Community.

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Project Name: Beverly Hills West Septic Tank Phase-Out

Permittee: JEA

IV. ENGINEER CERTIFICATION

I completed the Water Design and Construction Requirements Checklist of this permit application, and the information provided in the Water Checklist and on the attachment(s) to the Water Checklist is true and accurate to the best of my knowledge and belief.

Kenneth A Fraser Digitally signed by Kenneth A Fraser
Fraser Kenneth A. Fraser PE# 57452
Date: 2020.06.04 07:51:25 -04'00'
Signature and Date and Seal Name and License Number (please type or print)

Company Name: Jones Edmunds & Associates, Inc.
Address: 8757 Baypine Road, Building 5, Suite 300
City: Jacksonville State: Florida Zip: 32256
Office Phone No.: (904) 744-5401 Fax. No.: (904) 744-6267 Email Address: kfraser@jonesedmunds.com

KENNETH A. FRASER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 57452
THIS ITEM AS BEEN DIGITALLY SIGNED AND SEALED BY KENNETH A. FRASER ON DATE INDICATED HERE.
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V. WATER DESIGN DATA

- 1. Does this project include any new flows? **No – Replacement of existing water mains only**
If "YES", please answer Questions 2, 3 and 4.
- 2. Design/Projected Annual Average and Maximum Day Water Demands for Proposed Altered/New Distribution Facilities (i.e., water mains) Under this Project:

A = Type of Service Connection	B = Number of Service Connections	C = Average Daily Water Demand Per Service Connection	D = Total Average Daily Water Demand (Columns B x C for Residential Service Connections)	E = Total Maximum Day Water Demand
Single-Family Home				
Mobile Home				
Apartment				
Commercial, Institutional, Or Industrial Facility*				
Total				

*Description of Commercial, Institutional, and Industrial Facilities and Explanation of Method Used to Estimate Average Day Water Demand for These Facilities:

- 3. Design/Projected Maximum Hour Water Demand for Proposed Altered/New Distribution Facilities Under this Project and Basis of Design/Projection:
- 4. Will the proposed altered/new distribution facilities under this project be part of a community water system or a public water system that has a service area also served by a reclaimed water system? **Choose One**
If "YES", document that the system has a routine cross-connection control plan, including a written plan, in accordance with Rule 62-555, F.A.C.:



WASTEWATER DESIGN AND CONSTRUCTION
REQUIREMENTS CHECKLIST
(TO BE COMPLETED BY THE PROFESSIONAL DESIGN ENGINEER
WHEN APPLYING FOR A JEA WASTEWATER PERMIT)

Project Name: Beverly Hills West Septic Tank Phase-Out

Permittee: JEA

If this project is being designed to comply with the following requirements, initial before the requirements. If any of the following requirements do not apply to this project, mark "NA."

General

KAF(1)

Signed and Sealed Sewer Hydraulic Calculations including:

- a. Influent Flow Data
- b. Point of Connection Pressure Provided by JEA (where applicable)
- c. Hydraulic Analysis of the System
- d. Pump Information including Model, Impeller Diameter, Motor Speed and Horsepower, Pump Curve with Operating Point Indicated
- d. Buoyancy Calculations (not required if existing structure)

KAF(2)

Note referencing compliance with JEA Water and Sewer Standards Manual and JEA DIS Manual.

KAF(3)

All pipe construction and testing conform to the appropriate AWWA standards.

KAF(4)

Proper water demand information is provided on the permit application (Equivalent Dwelling Unit = 350 gals per day).

KAF(5)

Design Plans signed and sealed by a professional engineer registered in Florida indicating:

- a. Benchmark (Permanent benchmark required or a temporary benchmark referenced to a permanent benchmark)
- b. Plan views of entire project to include location and pipe size of new gravity sewers and force mains; trench details; manhole details; joint details and material specifications
- c. Plan and profile views for gravity sewers
- d. Location of existing water mains/reclaimed water lines/force mains/ gravity sewers/storm sewers and water wells
- e. Detail of pipe construction to withstand superimposed loads
- f. Cross Sectional View of Pump Station showing station piping and fittings and wetwell elevations
- g. Pump Information (Model, Impeller Diameter, Horsepower, Motor Speed, and Operating Point)
- h. Panel information
- i. JEA Pump Station Standards sheets (where applicable)

KAF(6)

No cross connections between collection/transmission systems and potable, storm water, or reclaimed water mains.

KAF(7)

Minimum water main and sewer collection/transmission system or reclaimed water main separations are maintained per F.A.C. 62-555 as measured from the pipes outside edges:

- a. Horizontal Separation of at least 6 feet and preferably 10 feet maintained. Horizontal separation between water main and gravity type sewers may be reduced to three (3) feet where the water main is laid at least six (6) inches above the top of the sewer.
- b. Vertical separation of at least six (6) inches and preferably twelve (12) inches maintained at crossings between water main and gravity or vacuum-type sanitary sewer or storm sewer. Vertical separation of at least twelve (12) inches maintained at crossings between water main and pressure type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water.
- c. At crossings, pipe joints are as far apart as possible and equidistant from the point of crossing. Water main is on top. A full length of pipe is to be centered at the crossing.

KAF(8)

Reclaimed water main and sewer collection/transmission system separations are maintained per F.A.C. 62-604 and 62-555 as measured from the outside pipe edges:

- a. Horizontal separation of at least three (3) feet shall be maintained between the reclaimed water main and any sewer collection or transmission pipe.
- b. Vertical separation of at least twelve (12) inches maintained at crossings between pipelines conveying reclaimed water and pressure type sanitary sewer, wastewater or stormwater force main, or gravity or vacuum-type sanitary sewer.

NA(9)

Protection of subaqueous and aerial crossings of water ways.

WASTEWATER DESIGN AND CONSTRUCTION
REQUIREMENTS CHECKLIST
(TO BE COMPLETED BY THE PROFESSIONAL DESIGN ENGINEER
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Project Name: Beverly Hills West Septic Tank Phase-Out

Permittee: JEA

Gravity Sewer Requirements

- KAF (10) Gravity sewer meets preferred slope requirements stated in JEA DIS Manual providing for a velocity of not less than 2 feet per second or data justifying an exception.
- KAF (11) Uniform slope and straight alignment between manholes.
- KAF (12) Minimum gravity sewer diameter of 8 inches and minimum manhole diameter of 4 feet.
- KAF (13) Gravity sewer mains meet minimum depth requirements of 30 inches in unpaved areas and 36 inches in paved areas.
- KAF (14) Manholes provided at the end of each line, at all changes in grade, size or alignment, at all intersections and or at distances not greater than 400 feet for sewers 16 inches and smaller or 500 feet for 18 to 30 inch sewers.

Force Main Requirements

- KAF (15) Minimum velocity of 2 feet per second should be maintained. Maximum velocity of 5 feet per second should be maintained.
- KAF (16) Minimum force main diameter is 4 inches in public right-of-way or easement.
- KAF (17) Isolation valves provided at branches of intersecting force mains and at force main stub outs for future connections and, at minimum, every 1000 feet.
- NA (18) Gate valve on the force main in the right-of-way adjacent to the discharge manhole.
- NA (19) 4-inch Minimum Pump-Out adjacent to the right-of-way (not required if the off-site force main is to remain privately owned and operated)
- KAF (20) Restrained joints are specified including general details shown.
- KAF (21) Air release valves are provided at high points and at changes in elevation of 2 feet or greater.
- KAF (22) Force main elevations provided every 100 feet.
- KAF (23) Minimum distance of 3 feet maintained from outside of force main force to drainage structures, telephone duct banks, electrical transformers, signal relays, power poles and other structures in the right-of-way as well as any other parallel underground utility with the exception of water mains.
- KAF (24) Force main meets minimum depth requirements of 30 inches in unpaved areas, 36 inches in paved areas, and a maximum 60 inches in arterial or collector roadways where reconstruction is anticipated.
- KAF (25) Pressure and leakage testing specified in accordance with AWWA C600, AWWA C605 or other applicable standard.

Discharge Manhole Requirements

- NA (26) JEA Connection Detail to Manhole should be provided, where applicable.
- NA (27) Note indicating discharge manhole should be lined per JEA Specifications.

Pump Station Requirements

- KAF (28) Pump station design criteria (estimated flow, operating conditions, GPM at TDH; pump and system curves; wet well storage calculations; influent elevations; float elevations, pump control setting; pump details).
- KAF (29) Minimum of two pumps. (Each pump shall be of the same capacity in JEA dedicated stations).
- KAF (30) Design peak hourly flow handled with largest pump out of service.
- KAF (31) Pumps capable of passing a minimum of 3 inch sphere except for grinder pumps. Reduced capacity pumps must be capable of passing a 1.75 inch solid.



WASTEWATER DESIGN AND CONSTRUCTION
REQUIREMENTS CHECKLIST
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Project Name: Beverly Hills West Septic Tank Phase-Out

Permittee: JEA

Pump Station Requirements (continued)

- KAF (32) Pump-out at station (If station is within 25 feet of the JEA required pump-out at the right-of-way, an additional pump-out at the station is not required).
- KAF (33) Adequate ventilation (if applicable).
- KAF (34) Pump station designed and located on the site to minimize odor, noise, and lighting nuisances.
- KAF (35) Designed to discourage the entry of animals and unauthorized persons.
- KAF (36) Electrical and mechanical equipment protected from 100 year flood.
- KAF (37) Pump station fully operational and accessible during 25 year flood, in no case less than the 10 year flood.
- KAF (38) Adequate backflow prevention devices are provided at pump station site.
- KAF (39) Pump station to withstand floatation forces when empty.
- KAF (40) Audible and Visible High Water Level Alarm.
- KAF (41) 24-hour Emergency Contact Number Posted at the Station.
- KAF (42) Motor overload phase protection.
- KAF (43) Provisions for continuous operation (auxiliary power required) for pump stations with 500 EDU's or greater. Pump stations with less than 500 EDU's shall include a generator receptacle.
- KAF (44) All pump stations shall have provisions for by-pass pumping (i.e., valving and coupling device for connection of a portable pump.)
- KAF (45) Minimum slope of bottom of wet well should be one to one relative to hopper bottom.
- NA (46) Shutoff valves provided on suction line of dry pit pumps.
- KAF (47) Shutoff and check valves provided in discharge line of each pump. Check valve between shutoff valve and discharge pump. Check valve not placed on vertical portion of discharge piping.
- KAF (48) No valve in wet well.

Explanation for requirements marked "NA" above (including justification, documentation, assurances, and/or alternative as required by rule for exceptions to requirements listed above: _____

- (9) There are no subaqueous nor aerial crossings of waterways in this project.
- (18) The force main for this Beverly Hills West project terminates on Lake Park Drive with a gate valve and cap for future connection to the force main to be constructed as part of the Beverly Hills East Septic Tank Phase-Out project.
- (19) A pump-out connection is provided at the planned JEA Class I lift station included as part of this project.
- (26) The proposed force main does not connect to a discharge manhole. See (18) above.
- (27) See (26) above.
- (46) The proposed new lift station is a standard JEA Class I submersible lift station with no dry pit pumps.

IV ENGINEER CERTIFICATION

I completed the Wastewater Design and Construction Requirements Checklist of this permit application, and the information provided in the Wastewater Checklist and on the attachment(s) to the Wastewater Checklist is true and accurate to the best of my knowledge and belief.

Kenneth A Fraser

Digitally signed by Kenneth A

Fraser

Date: 2020.06.04 07:51:39 -04'00' Kenneth A. Fraser PE# 57452

Signature and Date and Seal

Name and License Number (please type or print)

Company Name: Jones Edmunds & Associates, Inc.

Address: 8657 Baypine Road, Building 5, Suite 300

City: Jacksonville State: Florida Zip: 32256

Office Phone No.: (904) 744-5401 Fax No.: (904) 744-6267 Email Address: kfraser@jonesedmunds.com

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WASTEWATER DESIGN DATA

1. Does this project include any new flows? **Yes**
If "YES", please answer Questions 2, 3, 4 and 5.
2. Will this project connect any new industrial or commercial facilities to the JEA sanitary sewer? **No**
If "YES", please attach a listing of the company names and addresses.
3. Design Peak Flow: 614,405 GPD. Total Average Daily Flow: 168,700 GPD. Design Population: 1,687
4. Indicate the following:

Number and Type of Unit	Population	Per Capita Flow	Total Average Daily Flow (GPD)
482 Single Family Homes	1,687	100	168,700
0 Apartments	0	0	0
0 Motel Rooms	0	0	0
0 Mobile Homes	0	0	0
0 Other (describe)	0	0	0