

To be completed by JEA only:			
Permit No.			
Date of Issue:			
Approved by:			
Note: This permit will expire 5 years after dateissued			

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

Check all that apply: ☐New Permit Submittal ☐Permit Modification Su ☐This project involves a	(Note: This permi	tribution System
	N, AND LOCATION OF PROJE	ст:
Project Name: Project Description:		
Project Location: County:	Vicinity:	
II. STATEMENT BY PE	RMITTEE:	
facility in such a manner as to accordance with all applicable before we place this project clearance from JEA, we must JEA permit approval, I unders defined within the approved pebinding upon the permittee an understand that JEA and FD Conditions" by the Permittee	est of my knowledge and belief. I, the of function as it was designed. I agree JEA standards and approved engineer into service. Also, I am fully aware the submit to JEA a letter of request to trantand that the terms, general and spectrmit, and within the latest version of the dare enforceable pursuant to the auth EP may review this permit periodice, its agents, or representatives. Ar	am fully aware that the statements made in this application are true, undersigned am fully aware that it is my responsibility to operate and maintain this to retain a professional engineer to observe that construction of the project is in ing plans. I am fully aware that we must obtain a letter of clearance from JEA at, if we sell or legally transfer ownership of this project before obtaining a letter of sfer this permit within 30 days after such sale or legal transfer of ownership. Upon cific conditions, requirements, limitations, and restrictions set forth herein and as the JEA Water & Sewer Standards Manual are "Permit Conditions" and as such are ority of JEA and/or the Florida Department of Environmental Protection (FDEP). I ally and may initiate enforcement action for any violation of the "Permit my unauthorized deviation from the approved drawings, JEA specifications and as for revocation and enforcement action by JEA and/or FDEP.
Signature and Date Company Name: Address: City: State: Office Phone No.:	Zip: Email Address:	
III. STATEMENT BY PR	OFESSIONAL ENGINEER IN F	RESPONSIBLE CHARGE OF DESIGNING THE PROJECT:
documents for this project; that to the best of my knowledge at F.A.C., Chapter 62-604, F.A.C. Manual, JEA Backflow Preventi water mains, reclaimed water li are shown on the plans. Also, less and are located wholly wit To the best of my knowledge	I have expertise in the design of water and belief, the engineering design and contained and the latest versions of the JEA Deve on Program, and other applicable JEA sines, force mains, sanitary sewers, storm I certify that all water mains, gravity sein JEA's service territory. The design this project does not include installations.	that I am in responsible charge of the preparation and production of engineering distribution systems and/or wastewater collection/transmission systems; and that, onstruction plans for this project complies, where applicable, with Chapter 62-555, loper Installed Systems Manual, JEA Water & Sewer Standards, Details & Materials tandards. I certify that, to the best of my knowledge, the location and size of existing a sewers, and other utilities, as well as the location and size of the proposed utilities, wer mains, and force mains associated with this application are 12-inch in size or includes procedures for keeping existing utilities in service or minimizing outages, ation of any new utilities in areas of ground water or soils for which there is inates at concentrations exceeding groundwater standards.
Signature and Date and	Spal	This item has been electronically signed and sealed by , on using a Digital
Company Name: Address:	Scal	Signature.
City: State: Office Phone No.:	Zip: Email Address:	Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JEA Form No. JEAW&WWP Effective July 15, 2001, Revised 6/12/2025.



WATER DESIGN AND CONSTRUCTION REQUIREMENTS CHECKLIST

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

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".

<u>General</u>	
(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.
(2)	Note referencing compliance with JEA Water and Sewer Standards Manual and JEA DIS Manual.
(3)	All pipe construction and testing conform to the appropriate AWWA standards.
(4)	Pressure and leakage testing specified in accordance with AWWA C600 and C605 or other applicable standards.
(5)	Proper water demand information is provided below.
(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
(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 Requ	<u>uirements</u>
(8)	Water mains are arranged to form a grid of looped distribution.
(9)	The use of dead-end mains is minimized.
(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.
(11) Minimum size for water main providing fire protection and serving fire hydrants in residential is shown to be 6 inches in diameter.
(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.
(13) No record of historical organic or gasoline contamination within 1500 feet of the area of proposed PVC pipe installation.
(14) No water pipe passes through or encounters any part of a sewer manhole.
(15) Proper water main disinfection is in accordance with AWWA C651 and JEA Standards.



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

Service Requirements
(16) Water services are 1-inch for single family residences or double 1 ½ inch long side services for adjacent lots.
(17) No more than five (5) domestic service connections are shown on a 2-inch water main.
(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.
(19) The maximum length of a water services does not exceed 100 feet.
Meter Requirements
 (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
(21) Valves are shown on all water main branches in two directions on a tee and in three directions on a cross.
(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.
(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.
(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
(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.
(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.
(27) Fire hydrants within commercial, industrial or multi-family residential areas shall be served with a minimum 8-inch water main.
Backflow Prevention Requirements
(28) Adequate backflow prevention devices are provided at all proposed lift station, irrigation lines, commercial facilities, etc.
(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:



WATER DESIGN AND CONSTRUCTION REQUIREMENTS CHECKLIST

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

prov	mpleted the Water Design a rided in the Water Checklist wledge and belief.				
	nature and Date and Seal npany Name:			This item has been electronically , on Signature.	signed and sealed by using a Digital
Add City	ress: : State:	Zip: mail Address:	a	Printed copies of this document a and sealed and the signature mu- electronic copies.	
V	WATER DESIGN DATA		_		_
1. [Does this project include any If "YES", please answer Qu Design/Projected Annual Av Facilities (i.e., water mains)	uestions 2, 3, and 4. verage and Maximun		ds for Proposed Altered/Ne	ew Distribution
	A = Type of Service Connection	•	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, Institu These Facilities:	tional, and Industrial Faci	lities and Explanation of N	Method Used to Estimate Average	e Day Water Demand for
	Design/Projected Maximum and Basis of Design/Project		d for Proposed Altere	ed/New Distribution Faciliti	es Under this Projec
	Will the proposed altered/ne water system that has a ser If "YES", document that	vice area also serve	d by a reclaimed wat		



General

WASTEWATER DESIGN AND CONSTRUCTION REQUIREMENTS CHECKLIST

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

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".

(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)
(2)	Note referencing compliance with JEA Water and Sewer Standards Manual and JEA DIS Manual.
(3)	All pipe construction and testing conform to the appropriate AWWA standards.
(4)	Proper water demand information is provided on the permit application (Equivalent Dwelling Unit = 350 gals per day).
(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)
(6)	No cross connections between collection/transmission systems and potable, storm water, or reclaimed water mains.
(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
(8)	length of pipe is to be centered at the crossing. 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.
(9)	Protection of subaqueous and aerial crossings of water ways.



WASTEWATER DESIGN AND CONSTRUCTION REQUIREMENTS CHECKLIST

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

Gravity Sewer Requirements
(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.
(11) Uniform slope and straight alignment between manholes.
(12) Minimum gravity sewer diameter of 8 inches and minimum manhole diameter of 4 feet.
(13) Gravity sewer mains meet minimum depth requirements of 30 inches in unpaved areas and 36 inches in paved areas.
(14) Manholes provided at the end of each line, at all changes in grade, size or alignment, at all intersections and or at distances no greater than 400 feet for sewers 16 inches and smaller or 500 feet for 18-to-30-inch sewers.
Force Main Requirements
(15) Minimum velocity of 2 feet per second should be maintained. Maximum velocity of 5 feet per second should be maintained.
(16) Minimum force main diameter is 4 inches in public right-of-way or easement.
(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.
(18) Gate valve on the force main in the right-of-way adjacent to the discharge manhole.
(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)
(20) Restrained joints are specified including general details shown.
(21) Air release valves are provided at high points and at changes in elevation of 2 feet or greater.
(22) Force main elevations provided every 100 feet.
(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 utilit apart from water mains.
(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.
(25) Pressure and leakage testing specified in accordance with AWWA C600, AWWA C605 or another applicable standard.
Discharge Manhole Requirements
(26) JEA Connection Detail to Manhole should be provided, where applicable.
(27) Note indicating discharge manhole should be lined per JEA Specifications.
Pump Station Requirements
(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).
(29) Minimum of two pumps. (Each pump shall be of the same capacity in JEA dedicated stations).
(30) Design peak hourly flow handled with largest pump out of service.
(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

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

Pump Station Requirements (continued)

 (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).
 (33) Adequate ventilation (if applicable).
 (34) Pump station designed and located on the site to minimize odor, noise, and lighting nuisances.
 (35) Designed to discourage the entry of animals and unauthorized persons.
 (36) Electrical and mechanical equipment protected from 100-year flood.
 (37) Pump station fully operational and accessible during 25-year flood, in no case less than the 10-year flood.
 (38) Adequate backflow prevention devices are provided at pump station site.
 (39) Pump station to withstand floatation forces when empty.
 (40) Audible and Visible High Water Level Alarm.
 (41) 24-hour Emergency Contact Number Posted at the Station.
 (42) Motor overload phase protection.
 (43) Provisions for continuous operation (auxiliary power required) for pump stations with 500 EDU's or greater. Pump stations with les than 500 EDU's shall include a generator receptacle.
 (44) All pump stations shall have provisions for by-pass pumping (i.e., valving and coupling device for connection of a portable pump.)
 (45) Minimum slope of bottom of wet well should be one to one relative to hopper bottom.
 (46) Shutoff valves provided on suction line of dry pit pumps.
 (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.
 (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:

	Nastewater Checklist a		Checklist of this permit application, and the nent(s) to the Wastewater Checklist is true and
Signature and Date and Sea Company Name: Address: City: State: Office Phone No.:	Zip: Email Address:		This item has been electronically signed and sealed by , on using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
WASTEWATER DESIGN I	DATA		
Does this project include If "YES", please answ	e any new flows? □ Yes rer Questions 2, 3, 4 and		
	any new industrial or co h a listing of the compa		s to the JEA sanitary sewer? □ Yes □No dresses.
3. Design Peak Flow:	GPD. Total Average I	Daily Flow:	GPD. Design Population:
4. Indicate the following:			
Number and Type of Unit	Population	Per Capita Flow	Total Average Daily Flow (GPD)
Single Family Homes			
Apartments			
Motel Rooms			
Mobile Homes			
Other (describe)			