



Town of Vienna, Virginia
Department of Public Works

2010 WATER and SANITARY SEWER SYSTEM

GENERAL REGULATIONS

These regulations are in addition to Vienna Town Code §12 Plumbing Code, §14 Sewers and Sewage Disposal, and the Department of Public Works Standards and Specifications. The Schedule of Fees is detailed in §1.12 and §1.13.

2010 WATER and SANITARY SEWER SYSTEM GENERAL REGULATIONS

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WATER SERVICE

I. **CUSTOMER AGREEMENT:** Before the Town supplies water each customer must complete the Department of Finance, Water and Sewer Service Customer Service Agreement, attachment page 13, and pay the fees described. A new Agreement must be completed when a different person becomes responsible for the account.

II. **GENERAL REGULATIONS:**

A. All fees must be paid prior to the time of connection to the Town water system. Applicant shall fill out and submit an Application and Agreement for Installation of Water and/or Sewer Service.

B. No individual or corporation shall operate any portion of or connect with the Town water or sewer system without the prior written approval of the Director of Public Works.

C. Ownership of water service laterals. The Town of Vienna owns and maintains water transmission mains, water service laterals from the street to the water meter, the water meter and water meter housing. The property owner or customer owns and is responsible to maintain the water service lateral from the discharge side of the water meter to the building. For unmetered service laterals like private fire lines, private maintenance responsibility begins where the fire line attaches to the Town water main, even in situations where the water main is on the other side of the street.

D. When property on which water and sewer connection fees have been previously paid is being redeveloped, said property shall be treated as newly developed property. Provided, however, that any fees previously paid under prior rates shall be credited against fees required for the development.

E. Building Demolition. The demolition of a building disturbs and damages both water and sewer facilities. Before Town approval of a building permit for demolition the water and sewer services must be disconnected at the property line, properly capped off by a licensed plumber, and inspected by Town personnel. Water Cap Off Inspection and Sewer Cap Off Inspection fees are charged for this service.

F. When complaints are received concerning excess billing due to leaks in the water system, the Director of Finance shall investigate and take such action as the Director deems appropriate.

G. Fire Sprinkler Systems. Fire sprinkler system connections to the Town water system and the corresponding water lateral shall be installed by the owner in accordance with National and Local Plumbing Backflow Prevention Standards and codes, including labor and materials, at no cost to the Town, after approval of a permit and payment of fees.

H. Water Meter Purchase and Sizing. All water meters and laterals shall be sized in accordance with BOCA National Plumbing Code Appendix C.3 and appropriate tables. See Table I and Table II for help. All meters shall be purchased from the Town of Vienna at cost plus 25% as shown in the schedule of fees.

I. Old Agreements. Previous written Town/Customer agreements which do not conform to current regulations will be evaluated individually.

III. **WATER SERVICE DISCONNECTS/RECONNECTS:**

A. Service discontinued:

1. Town water and sewer system charges shall be payable within 30 days from the date of billing and shall immediately thereafter become delinquent and subject to disconnection of water service.

2. No service, when disconnected for non-payment of bill, shall be reconnected until payment of all delinquent charges plus a Water Service Reconnect Fee.

3. Tampering with the water meter or any portion of the Town water system is prohibited. The Town will charge an Unauthorized Water Service Reconnection Fee for unauthorized restoration of a water service, and the Town shall recover at prevailing rates, fees for all water consumed during the period of unauthorized service along with sewer charges applicable to such use.

B. Residents who wish service turned off for vacation periods must notify the Customer Service Clerk in writing and state the dates that they wish service discontinued and restored. A Vacation Water Shut-off charge shall be made to cover costs.

C. Business Hours for Service Reconnects: In conformity with established procedures of the Department of Public Works, no service shall be turned on for any resident after 3:30 PM of any business day unless specifically authorized by the Director of Public Works, or the Town Manager.

D. Someone must be at home before the water can be turned back on to avoid excess water use from water faucets or valves inside the building left open.

IV. **FIRE HYDRANT USAGE:**

It is unlawful to operate, connect to or use any fire hydrant, for other than fire protection purposes, without receiving a Fire Hydrant Permit issued by the Department of Public Works.

A. After paying the fire hydrant usage fee and fire hydrant meter deposit, the applicant shall be issued an approved Fire Hydrant Permit and Town fire hydrant water meter and hydrant wrench. The deposit will be forfeited if the meter and wrench are not returned in good working order.

B. Applicant must use only the fire hydrant wrench when turning the hydrant on and off. Use of an adjustable wrench or pipe wrench on the hydrant operating nut causes damage and is prohibited.

C. Before permit expiration, the Town fire hydrant meter is to be returned for reading to the Department of Public Works. Any water used shall be charged at the current water rates.

This charge is to be deducted from the deposit and the remainder of the deposit refunded. The applicant is responsible for any additional water usage exceeding the deposit amount.

V. CONSTRUCTION AND DEVELOPMENT:

A. Construction Water: When applying for a building permit a builder may also pay a Construction Water Fee, for the use of unmetered water during construction after the water meter has been removed for a 3-month period. Additional periods may be added upon payment of additional Construction Water Fees. The total period shall not exceed 18 months without approval of the Director of Public Works.

B. The developer shall be responsible for installing or extending adequately sized water mains in order to supply water service for a subdivision within the Town's service area.

C. A Water tap inspection must be completed and fees must be paid before connections or reactivation of discontinued water service.

D. When a new subdivision abuts an existing road or street, any required water mains and service lines shall be installed or extended by the developer of the subdivision. In the event during construction but before issuance of the final Certificate of Occupancy, another subdivision is approved immediately opposite said subdivision and will receive water service from the newly installed water main, the developer of the latter subdivision shall reimburse the Town for one-half the cost of that portion of the water main fronting his subdivision. The Town, in turn, will remit such costs to the developer who initially installed the water main. In the case of water mains installed by the Town, any reimbursement will be retained by the Town.

VI. WATER ONLY CHARGE:

A. Commercial and industrial users of water who use part of the water purchased for producing their product, or for other purposes in which the used water is not run into the sanitary sewer system, may chose to have a water only service, with no sewer charges. These users will be required to prove the amount of water to be exempted by installation of a separate sealed meter to be purchased from and to be read by the Town of Vienna.

B. Swimming pool owners where fill water is not run into the sanitary sewer system, may request that their sewer charges be computed only on the water put into the sewer system by contacting Department of Finance, Customer Service before filling the swimming pool. Their water meter will be read before and after filling and the water bill recomputed.

VII. WATER FEE CALCULATION PROCEDURES:

A. Refer to the Fee Calculation Matrices, pages 17 and 18, for an overview of how fees and charges are applied for different situations.

B. Changes to buildings:

1. Residential (Single Family or Townhouse) dwellings:

- a. When a dwelling has been demolished and a new dwelling has been erected on the same parcel of property, the Water Cap Off and Water Tap Inspection Fees are charged; however, no Availability Fee or Local Facilities fee is charged.
 - b. When a bath or other fixtures are added to an existing dwelling with water service, no Availability Fee or Local Facilities fee is charged.
 2. When an older commercial or multi-family residential building is torn down and a new building is built, the Water Cap Off and the Water Tap Inspection Fee is charged, then:
 - a. Where the existing Town water lateral and meter are reused, no Availability Charge is required. The Local Facilities Charge shall apply, if it has never been paid.
 - b. Where Town water lateral is reused, but requires a new meter, the water Availability Charge shall apply based on the new meter size. Credit shall be given for any Availability Charge previously paid. If no previous Water and Sewer Customer Agreement or other proof of payment can be located, calculate the amount which would have been paid at the time of the previous water connection and credit that amount toward the new Availability Charge. The Local Facilities Charge shall apply, if it has never been paid.
 - c. Where the Town water lateral must be replaced, the full new rate is charged, including tap inspection. Credit is given for water connection fees previously paid. No Local Facilities charge applies if previously paid.
 3. Where changes are being made inside the existing building only, with no changes to the existing water meter or lateral, the Water Cap Off Fees, Water Tap Inspection Fees, Infrastructure Availability Charges and Locality Facilities Charges are not charged.
- C. Partial Billing: New residents shall receive a utility bill based on their first water meter reading. Bills shall be rendered on actual consumption to the next higher 1,000 gallons of usage. Example: A reading of 1,760 gallons would be billed for 2,000 gallons of water.
- D. Final bills for residents leaving the Town shall be based upon actual consumption. If the customer has a meter deposit to his credit, the refund shall be first applied to his final bill.
- E. Snow or Other Emergencies: When meter readings cannot be taken due to snow covered meters or other problems, the following procedures shall apply:
1. If the customer has previously established meter readings, average usage shall be used to calculate an Estimated Bill.
 2. New residents and customers where an average usage cannot be established shall receive an estimated bill based upon similar properties.
 3. In the following billing period or when the water meter can be read, the utility bill will be calculated based on the true water usage.

SEWER SERVICE

SECTION I. GENERAL REGULATIONS:

- A. Connection to the Town sewer system without an approved permit and payment of all fees is prohibited.
- B. The owner is responsible for the installation and maintenance of the sanitary sewer lateral from the building to the sewer main and connection to the main in accordance with the plumbing specifications of the Town of Vienna, Building Permit and shall pay all related costs.
- C. Ownership of sewer service laterals. The Town of Vienna owns and maintains sanitary sewer mains. The property owner or customer owns and is responsible to maintain the sewer service lateral from the building to the Town sewer main and the connection at the sewer main. This typically means the property owner is responsible for a section of sewer lateral under the public sidewalk and street.
- D. Prohibition of Orangeburg or cast iron pipe sewer service laterals. The use of Orangeburg sewer laterals is prohibited. The use of cast iron sewer laterals is strongly discouraged. During repairs to existing sewer laterals, any Orangeburg or cast iron sewer pipes must be removed and replaced to the Town sewer main.
- E. Old Agreements. Previous written agreements which do not conform to current regulations will be evaluated individually.

SECTION II. GREASE ABATEMENT:

- A. A sewer surcharge shall be added to the sewer service charges for restaurants where the Director of Public Works determines the restaurant is discharging an amount of grease into the sewer system which results in causing a sewer main to back up or otherwise creates an abnormal maintenance problem.
- B. Should the actual maintenance costs required by such grease deposits exceed the grease abatement service charge; the actual maintenance cost will be used.
- C. Prior to the initial assessment of any grease abatement service charge the owner, operator or agent of such restaurant shall be notified in writing of the determination of the Director and shall be allowed ninety (90) days in which to permanently abate the condition causing such problem. Ninety days after the mailing of said notice the surcharge shall be assessed, effective the date of such notice, should abatement not have been accomplished.
- D. No restaurant shall be entitled to more than one such notice nor more than one 90-day period to effect permanent abatement of any such problem. Thereafter, upon determination by the Director of reoccurrence of the problem, the surcharge shall be effective immediately and without further notice and shall continue uninterrupted until the problem is permanently abated to the satisfaction of the Director.

SECTION III. SEWER FEE CALCULATION PROCEDURES:

- A. Refer to Fee Calculation Matrices, pages 19 and 20, for an overview of how fees and charges are applied for different situations. Applicant shall fill out and submit an Application and Agreement for Installation of Water and/or Sewer Service.
- B. Sewer Cap Off Inspection Fee and Sewer Tap Inspection Fee shall be charged for sewer cap off inspections, connections to the sewer main or when any adjustments are made to the Town sewer system. Sewer Cap Off Inspection Fee payment and successful inspection must occur before approval of any building demolition permits.
- C. New Construction:
1. Residential Availability Charge
 - a. New residential construction including single family dwelling construction, townhouse, duplex and semi-detached units is charged the Sewer Availability Residential Single Family Fee for each unit.
 - b. New multi-family residential construction in buildings containing three or more units including motels, hotels, inns and tourist cabins is charged the Sewer Availability Residential All Else Fee for each unit.
 2. Commercial, industrial and other uses DFU Charge:
 - a. Charges shall be based on a Drainage Fixture Units, (DFU's) count. The basic charge includes the first through the thirtieth DFU. The Additional DFU Charge is added for every DFU or portion above thirty. Plans shall include a DFU table detailing the type and quantity of each fixture to be installed.
 - b. Continuous discharge. Fixture unit count for fixtures discharging continuously to a drainage system leading to the facilities of the Town shall be increased by two fixture units for each gallon per minute of such continuous or semi-continuous discharge. The rate of such discharge shall be deemed to be that rate certified by the manufacturer of the fixture or other equipment or such other rate as the Director of Public Works shall determine.
- D. Changes to buildings:
1. Residential (Single Family or Townhouse) dwellings Availability Fee:
 - a. When a dwelling has been demolished and a new dwelling has been erected on the same parcel of property, no Sewer Availability Fee or Front Footage Charge is required. Reuse of old sewer laterals is not recommended.
 - b. When a bath or other fixtures are added within an existing residential dwelling with sewer service, no Sewer Availability Fee or Front Footage Charge is charged.
 2. Commercial, industrial and other uses DFU Fee. Charges are calculated on DFU's added beyond the existing DFU count. Plans shall

include a DFU table detailing the type and quantity of each fixture existing and proposed.

E. Front Footage Charge:

1. A charge per lot front foot shall be paid by anyone requesting authorization to connect his property to the Town sewer lines. Minimum lot frontage for this calculation is 50', up to a maximum 100' width.
2. New lots created by subdivisions are also subject to the Front Footage Charge.
3. The Front Footage Charge shall not apply to sewer line connection made by a builder or developer who has installed or extended the Town sewer main at his expense.

F. Sewer Service Charges (quarterly):

1. Sewer service charges shall be based on the amount of water used as set forth below and as established in the schedule of fees.
2. For a metered water supply, the quarterly sewer service charge will be based on the amount of water actually used during the billing quarter.
3. For a non-metered water supply, the sewer bill will be based on the average water consumption for all single family homes in the Town of Vienna.
4. For Grease Abatement charges, see Sewer Service, Section II.
5. The sewer service charge shall not include the "excess water use amount" in its calculation.

DEFINITIONS OF CHARGES & FEES

Town Code § 1.12 and § 1.13 General Provisions lists current rates for fees and charges explained below.

A. Water Availability Charge. The Availability Charge, also called the Hook-up Fee, Connection Charge or Infrastructure Availability Charge, is required for all new connections to the water system. The charge reflects the water system replacement cost and capital program expansion projections allocated to all connections to the system.

B. Water Local Facilities Charge. The Local Facilities Charge, also called the Main Extension Fee or Frontage Fee, is required for all new connections to the water system. This charge reflects a portion of the initial water main construction costs to provide water service to the property. The Local Facilities Charge shall not apply to a water line connection made by a builder or developer who has installed or extended the Town water main at his expense.

C. Water Tap Inspection Fee. The Water Tap Inspection Fee must be paid before any Building Permits or other permits are issued for any water tap on the Town of Vienna water system. Inspections are to be scheduled during business hours with the Town of Vienna Water-Sewer Superintendent.

D. Water Cap Off Inspection Fee. The Water Cap Off Inspection Fee must be paid before any Building Permits or other permits are issued for any of the following work or connection to the Town of Vienna water system: water line cap-off, water meter shut-off, water meter removal, or water line repair. Inspections are to be scheduled during business hours with the Town of Vienna Water-Sewer Superintendent.

E. Water Account Setup Charge. All new customers or customers requesting a water account transfer shall pay a setup charge to partially offset the cost of establishing the account in the Town financial system.

F. Water Meter Purchase Fee. All water meters shall be purchased from the Town of Vienna at cost plus 25% as set by Town Council.

G. Water Meter Deposit. All new customers shall pay a water meter deposit when they fill out the Customer Agreement. The deposit shall be forfeited if the meter is damaged. After three years or whenever the account is closed, all remaining funds shall be refunded.

H. Water Only Service. Customers using a large volume of water which is not introduced into the sewer system may apply for a separate sealed water meter. Water bills will be calculated on water usage only.

I. Fire Sprinkler Connection Charge. The Sprinkler Connection Charge applies to all new sprinkler system connections to the Town water system. The connection shall be installed by the owner, including labor and materials, at no cost to the Town. Any pipe or fitting installed beyond the water main connection will be maintained by the owner.

J. Water Bill Service Charge. Each water bill will include a Service Charge to partially offset the cost of generating and processing the payment.

K. Water Excess Use Charge. A water excess use charge will be included in the customer's water bill for all consumption in the summer billing period, calculated on the usage in

excess of the previous year's quarter average consumption plus 6,000 gallons or 1.3 times the previous year's quarter average consumption, whichever is the greater.

L. Night Work Inspection Fee. When inspections listed above occur after business hours, on weekends or holidays, an additional fee for Night Work Inspection will be charged. Applicants who do not pay this fee when applying for the permit must pay the charge before final DPW sign-off on the work.

M. Construction Water Fee. By paying the Construction Water Fee, during construction after a water meter is removed, builders may use the unmetered water meter connection for construction purposes. Permits shall be active for a maximum of 90 days, and may be renewed after an additional fee is paid for up to one year.

N. Fire Hydrant Permit Fee. It is unlawful to operate, connect to or use any fire hydrant, for other than fire protection purposes, without paying the fees and receiving a Fire Hydrant Permit issued by DPW.

O. Fire Hydrant Water Meter. After paying a deposit, a Hydrant Meter and hydrant wrench are issued with the approved Fire Hydrant Permit. Before the permit expires, the applicant shall return the undamaged hydrant meter and wrench, pay for water used and the deposit will be returned. No un-metered water may be used.

P. Water Service Reconnect Fee. In the event Town personnel disconnect a delinquent water service account, all delinquent water charges plus a Reconnection Fee must be paid before water service is restored during normal Town working hours before 3:30 PM weekdays.

Q. After-hours Water Service Reconnect Fee. Water Service Reconnections on non-work days, weekends or after 3:30 PM.

R. Unauthorized Water Service Reconnect Fee. Tampering with the water meter or any portion of the Town water system is prohibited. To reimburse the Town for investigation and Town field crew time, an Unauthorized Water Service Reconnect Fee will be added to the utility bill in addition to the water consumption charge.

S. Vacation Water Shut-off Fee. Customers may have their water service shut off upon making a written request noting the dates and paying the Vacation Shut-off Fee.

T. Fire Flow Test Fee. Town personnel will test the fire hydrant flow rate and pressure with a report of the results to the applicant.

U. Emergency Repairs. In the event Town water or sewer facilities are damaged by a contractor or other party, the Town will bill the responsible party the direct costs of the repair, the cost of water lost, other direct costs, appropriate inspection fees, plus an administrative charge to recover the clerical and overhead costs. Final approval of the associated project will be withheld until the charges are paid.

V. Emergency Repairs Fee (after hours). In addition to costs described in **Emergency Repairs** above, the Emergency Repairs Fee (after hours) will be assessed for repairs done by Town crews or Town contractors on nights, weekends, or other times Town crews are not scheduled to work. Final approval of the associated project will be withheld until the charges are paid.

W. Sewer Availability Charge. The Sanitary Sewer Availability Charge, also called the Sewer Hook-up Fee, Sewer Connection Charge or Infrastructure Availability Charge, is required for all new connections to the sanitary sewer system. The charge reflects the system replacement cost and capital program expansion projections allocated to all connections to the system. The owner shall be responsible for the installation of the lateral from the building to the sewer main and connection to the main in accordance with the plumbing specifications of the Town of Vienna, Building Permit and shall pay all related costs.

X. Sewer Front Footage Charge. The Front Footage Charge, also called the Sewer Main Extension Fee, is required of all residential or business property owners making a new connection to the sanitary sewer system. This charge does not apply if the sewer main has been extended across the frontage at the owner's expense.

Y. Sewer DFU Charge. Fees for commercial properties are computed by counting each sink, toilet, floor drain and other plumbing fixture. Each fixture type is given a drainage fixture unit (DFU) value within the International Plumbing Code based on its discharge into the sewer system. The number of DFUs is multiplied times the DFU fee to calculate the DFU charge.

Z. Sewer Tap Inspection Fee. The Sewer Tap Inspection Fee applies to inspection of new lateral construction and connections to the Town sewer main. Inspections are to be scheduled during business hours with the Town of Vienna Water-Sewer Superintendent.

AA. Sewer Cap Off Inspection Fee. The Sewer Cap Off Inspection Fee applies to inspection of private sewer lateral cap-offs. Private sewer laterals must be properly capped before issuance of a building demolition permit. Inspections are to be scheduled during business hours with the Town of Vienna Water-Sewer Superintendent.

BB. Sewer Quarterly Service Charge. The charge for sewer usage shall be based upon the amount of water used and billed quarterly.

CC. Sewer Grease Abatement Surcharge. A surcharge shall be added to the sewer quarterly service charges for restaurants discharging excessive grease into the sewer system which results in back ups or other abnormal maintenance problems.

APPLICATION AND AGREEMENT
For Installation of Water and/or
Sewer Service

Receipt No.

Contract No. **1256**.....

To the Town of Vienna, Virginia

Date of Application, 20

I hereby apply for permission to install water and/or sewer laterals, as checked below, from the water and/or sewer main in the street, or nearest point of connection, to my house and/or building lot at Address..... the same being Lot of Block, Section, Subdivision, as shown on the Town plat; said laterals to be laid from the mains to the home and/or building, and the water meter there installed by the Town.

I agree to lay, at my own expense, a water lateral from the main to my house or building on the above-described property and to none other. In the case of sewer service I agree to lay, at my own expense, a sewer lateral from the sanitary sewer main to my house or building on the above-described premises and none other. I further agree to maintain said sewer connection from the sewer main to the building serviced and said water connection from the property line to the building serviced or from the end of the meter yoke to the house, as the case may be, and to permit inspection thereof by Town officials. Where cuts are made in the street to permit lateral installations, necessary repairs will be made in accordance with Town of Vienna Specifications.

I hereby apply for the specific service(s) checked below and if this application is approved, I agree to the terms and conditions stated in this agreement.

WATER SERVICE:

SEWER SERVICE:

Availability

Availability

Local Facilities

DFU'S or Front Footage

Tap Inspection Fee

Tap Inspection Fee

Water Meter Size _____ Price

Construction Water

TERMS:

Connection charges for water and/or sewer laterals run from the mains to the house or building will be due and payable before said laterals are installed. Bills for water and sewer service will be paid within ten days of rendition. All bills not paid within thirty days of rendition are in default.

In case of default in the terms and conditions herein set forth, the Town of Vienna shall cut off services to the above premises without further notice. Services will not be reinstated until all amounts due the Town are paid in full. A charge for restoring service will be imposed.

Accepted and Approved:
TOWN OF VIENNA, VIRGINIA

Signed
Property Owner

By

Original - Contract File
Copy - Customer Service
Pink - Customer
Goldend - Subdivision File

**TOWN OF VIENNA
WATER AND SEWER SERVICE
CUSTOMER AGREEMENT**

Town Hall
127 Center St. South
Vienna, VA 22180

Deposit Required: Residential - \$50.00 Commercial - \$_____

Make checks payable to TOWN OF VIENNA

<p>Name _____ <i>(person responsible for account)</i></p> <p>Address for service _____ _____</p> <p>Date to begin water and sewer service _____</p> <p>Is there a swimming pool at this address? Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>Today's date _____</p> <p>Social security # _____ Federal ID# _____ Phone # - days _____ Phone # - home _____</p> <p># of people living at this address _____</p>
Billing address (if different from address for service) _____ _____	
<p>Did you purchase this property? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Is this a newly constructed home? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Name and address of the former owner _____ _____ _____</p>	<p>Are you the RENTER of this property? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Name and address of the landlord _____ _____ _____</p>

Agreement to Establish Water & Sewer Account

The deposit and signed Customer Agreement are due before the water and sewer service begins. The deposit, with interest, will be credited to your account in three years or to the final bill if the account is closed in less than three years. Your first bill will include a \$5.00 account set up fee.

The Town of Vienna will invoice you quarterly for water and sewer service. All invoices are due upon receipt. Invoices may be mailed to Town Hall, deposited in the night depository slot at the front of Town Hall or paid in person at Town Hall between 8:00 a.m. and 4:30 p.m., Monday through Friday. Water service will be discontinued if payment is not received. A fee will be assessed for reconnection of water service.

The water meter is the property of the Town of Vienna. Severe penalties apply for tampering with the meter.

If you have any questions regarding the water and sewer service or billing please contact the Customer Service Representative at (703) 255-8385.

I have read and understand the conditions above.

Person responsible for account _____ Date _____
(signature)

For Town Use Only: Account number _____ Deposit receipt # _____

TABLE I

Taken from International Plumbing Code/2006, Table 709.1 & P-61

DRAINAGE FIXTURE UNIT VALUES WORKSHEET FOR VARIOUS PLUMBING FIXTURES

TYPE OF FIXTURE OR GROUP OF FIXTURES	D.F.U. VALUE	NUMBER LISTED	TOTAL D.F.U.
Automatic clothes washer, Commercial	3		
Bathroom group consisting of water closet, lavatory, bathtub or shower, including or excluding a bidet, an emergency floor drain, or both (1.6 gpf water closet)	5		
Bathroom group consisting of water closet, lavatory, bathtub or shower, including or excluding a bidet, an emergency floor drain, or both (greater than 1.6 gpf water closet)	6		
Bathtub (with or without overhead shower or whirlpool attachments)	2		
Bidet	1		
Combination sink-and tray	2		
Dental lavatory	1		
Dental unit or cuspidor	1		
Drinking fountain	1/2		
Emergency floor drain	0		
Floor drains	2		
Laundry tray (1 or 2 compartments)	2		
Lavatory	1		
Shower	2		
Service sink (P trap), (Mop/slop sinks)	2		
Sink	2		
Urinal	4		
Urinal, 1 gallon per flush or less	2		
Urinal, nonwater supplied	0.5		
Wash sink (circular or multiple) each set of faucets	2		
WATER CLOSETS:			
Water closets flushometer tank, public or private	4		
Private (1.6 gpf)	3		
Private (flushing greater than 1.6)	4		
Public (1.6 gpf)	4		
Public (flushing greater than 1.6 gpf)	6		
UNLISTED FIXTURE DRAINS OR TRAP SIZE:			
1 ¼" or less	1		
1 ½"	2		
2"	3		
2 ½"	4		
3"	5		
4"	6		
D.F.U. GRAND TOTAL:			
gpf = gallon per flushing D.F.U. =			
drainage fixture units			
1 st thirty (30) DFU's = \$ _____			
_____ Additional DFU's x \$207.50 = \$ _____			
TOTAL AMOUNT DUE: \$ _____			
W/S Acct # 50-31636			

TABLE II

Taken from BOCA Plumbing Code/1990, Table C.3.1b

FIXTURE UNITS TABLE FOR DETERMINING WATER PIPE AND METER SIZES FOR WATER SUPPLY SYSTEMS

Pressure range - 30 to 45 psi											
Meter and Street service	Building supply and branches	Maximum allowable length in feet									
		40	60	80	100	150	200	250	300	400	500
3/4"	1/2"	6	5	4	4	3	2	-	-	-	-
3/4"	3/4"	18	16	14	12	9	6	-	-	-	-
3/4"	1"	29	25	23	21	17	15	13	12	10	9
1"	1"	36	31	27	25	20	17	15	13	12	10
1"	1 1/4"	54	47	42	38	32	28	25	23	19	17
1 1/2"	1 1/4"	90	68	57	48	38	32	28	25	21	19
1 1/2"	1 1/2"	151	124	105	91	70	57	49	45	36	31
2"	1 1/2"	210	162	132	110	80	64	53	46	38	32
1 1/2"	2"	220	205	190	176	155	138	127	120	105	96
2"	2"	372	329	292	265	217	185	164	147	124	107
2"	2 1/2"	445	418	390	370	330	300	280	265	240	220
Pressure range - 46 to 60 psi											
3/4"	1/2"	9	8	7	6	5	4	3	2	-	-
3/4"	3/4"	27	23	19	17	14	11	9	8	6	5
3/4"	1"	44	40	36	33	28	23	21	19	17	14
1"	1"	60	47	41	36	30	25	23	20	18	15
1"	1 1/4"	102	87	76	67	52	44	39	36	30	27
1 1/2"	1 1/4"	168	130	106	89	66	52	44	39	33	29
1 1/2"	1 1/2"	270	225	193	167	128	105	90	68	62	52
2"	1 1/2"	300	290	242	204	150	117	98	84	67	55
1 1/2"	2"	380	360	340	318	272	240	220	198	170	146
2"	2"	570	510	470	430	368	318	280	250	205	173
2"	2 1/2"	680	640	610	580	535	500	470	440	400	365
Pressure range - over 60 psi											
3/4"	1/2"	11	9	8	7	6	5	4	3	2	-
3/4"	3/4"	34	28	24	22	17	13	11	10	8	-
3/4"	1"	63	53	47	42	35	30	27	24	21	18
1"	1"	87	66	55	48	38	32	29	26	22	19
1"	1 1/4"	140	126	108	96	74	62	53	47	39	34
1 1/2"	1 1/4"	237	183	150	127	93	74	62	54	43	37
1 1/2"	1 1/2"	366	311	273	240	186	154	130	113	88	73
2"	1 1/2"	490	395	333	275	220	1703	142	122	98	82
1 1/2"	2"	380 ¹	380 ¹	380 ¹	380 ¹	370	35	305	282	244	212
2"	2"	690 ¹	670	610	560	478	420	375	340	288	245
2"	2 1/2"	690 ¹	690 ¹	690 ¹	690 ¹	690 ¹	650	610	570	510	460

NOTE¹ -- Maximum allowable load on meter.

Sample Calculations, **Water** Charges
Single Family Home or Townhouse

March 19, 2009

	CONSTRUCTION TYPE					WATER ONLY SERVICE
	NEW BLDG, VACANT LOT	DEMOLISH OLD BUILDING & REBUILD			MODIFICATIONS INSIDE BUILDING	
	New Water Meter	Reuse Water Meter (1)	New Water Meter	New Water Meter	Reuse Water Meter	
	New Water Lateral	Reuse Water Lateral (1)	Reuse Water Lateral (1)	New Water Lateral	Reuse Water Lateral	
WATER CAP OFF INSPECTION FEE	No	Yes	Yes	Yes	No	No
NEW METER PURCHASE FEE	Yes	No	Yes	Yes	No	Yes
INFRASTRUCTURE AVAILABILITY CHARGE	Yes	No	No	No	No	No
LOCALITY FACILITIES CHARGE	Yes	No	No	No	No	No
WATER TAP INSPECTION FEE	Yes	Yes	Yes	Yes	No	Yes
WATER ACCOUNT SETUP CHARGE	Yes	Yes if new owner	Yes if new owner	Yes if new owner	No	Yes
WATER METER DEPOSIT	Yes	Yes if new owner	Yes if new owner	Yes if new owner	No	Yes
FIRE SPRINKLER CONNECTION FEE	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	No
CONSTRUCTION WATER FEE	Yes	Yes	Yes	Yes	Yes	No

(1) Seldom the situation. House must have at least a 1" water meter

Sample Calculations, **Water** Charges
Commercial & Multi-Family Residential Buildings

2010

	CONSTRUCTION TYPE					WATER ONLY SERVICE
	NEW BLDG, VACANT LOT	DEMOLISH OLD BUILDING & REBUILD			MODIFICATIONS INSIDE BUILDING	
	New Water Meter	Reuse Water Meter (1)	New Water Meter	New Water Meter	Reuse Water Meter	
	New Water Lateral	Reuse Water Lateral (1)	Reuse Water Lateral (1)	New Water Lateral	Reuse Water Lateral	
NEW METER PURCHASE FEE	Yes	No	Yes	Yes	No	Yes
INFRASTRUCTURE AVAILABILITY CHARGE	Yes, based on meter size	No	Yes, credit previous payments	Yes, credit previous payments	No	No
LOCALITY FACILITIES CHARGE (2)	Yes	Yes if not previously paid	Yes if not previously paid	Yes if not previously paid	No	No
WATER TAP INSPECTION FEE	Yes	Yes	Yes	Yes	No	Yes
WATER ACCOUNT SETUP CHARGE	Yes	Yes if new owner	Yes if new owner	Yes if new owner	No	Yes
WATER METER DEPOSIT	Yes	Yes if new owner	Yes if new owner	Yes if new owner	No	Yes
FIRE SPRINKLER CONNECTION FEE	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	Yes, if sprinkled	No
CONSTRUCTION WATER FEE	Yes	Yes	Yes	Yes	No	No

(1) Seldom the situation. Building must have at least a 1" water meter

(2) Local Facility Charge waived if new water main constructed by builder

Sample Calculations, **Sewer** Charges
Residential Uses

2010

	CONSTRUCTION TYPE				WATER ONLY SERVICE
	NEW BLDG, VACANT LOT	DEMOLISH OLD BUILDING & REBUILD		MODIFICATIONS INSIDE BUILDING	New Water Meter, no sewer discharge
	New Sewer Lateral	New Sewer Lateral	Reuse Sewer Lateral (1) (2)	Reuse Sewer Lateral	
INFRASTRUCTURE AVAILABILITY CHARGE	Yes	No	No	No	N/A
FRONT FOOTAGE CHARGE	Yes	Yes	Yes if not previously paid	No	N/A
SEWER TAP INSPECTION FEE	Yes	Yes	Yes	Yes	N/A
GREASE ABATEMENT CHARGE	No	No	No	No	N/A

(1) Orangeburg pipe and cast iron laterals must be replaced at owner's expense

(2) It is recommended that sewer laterals be replaced with all reconstruction

Sample Calculations, **Sewer** Charges
 Commercial & Multi-Family Residential Buildings

2010

	CONSTRUCTION TYPE				WATER ONLY SERVICE
	NEW BLDG, VACANT LOT	DEMOLISH OLD BUILDING & REBUILD		MODIFICATIONS INSIDE BUILDING	New Water Meter, no sewer discharge
	New Sewer Lateral	New Sewer Lateral	Reuse Sewer Lateral	Reuse Sewer Lateral	
DFU CHARGE	Yes	Yes on DFU increase	Yes on DFU increase	Yes on DFU increase	N/A
FRONT FOOTAGE CHARGE	Yes	Yes if not previously paid	Yes if not previously paid	Yes if not previously paid	N/A
SEWER TAP INSPECTION FEE	Yes	Yes	No	No	N/A
GREASE ABATEMENT CHARGE	Yes, restaurants	Yes, restaurants	Yes, restaurants	Yes, restaurants	N/A