

SECTION 1 INTRODUCTION

1.0 AUTHORITY ORIGINS

The Hamilton Township Municipal Utilities Authority (HTMUA) hereinafter referred to as the Authority was created by Ordinance adopted by the Mayor and Township Committee of the Township of Hamilton on October 15, 1962. The Authority was organized pursuant to the provisions of the County and Municipal Water and Sewerage Disposal Authorities Law (P.L. 1957, C183) and has been functioning since its origins.

The Authority is responsible for potable water supply, treatment and distribution as well as public sewage collection. Treatment and final disposal of wastewater created in Hamilton Township is the responsibility of the Atlantic County Utilities Authority (ACUA).

1.1 AUTHORITY ORGANIZATION

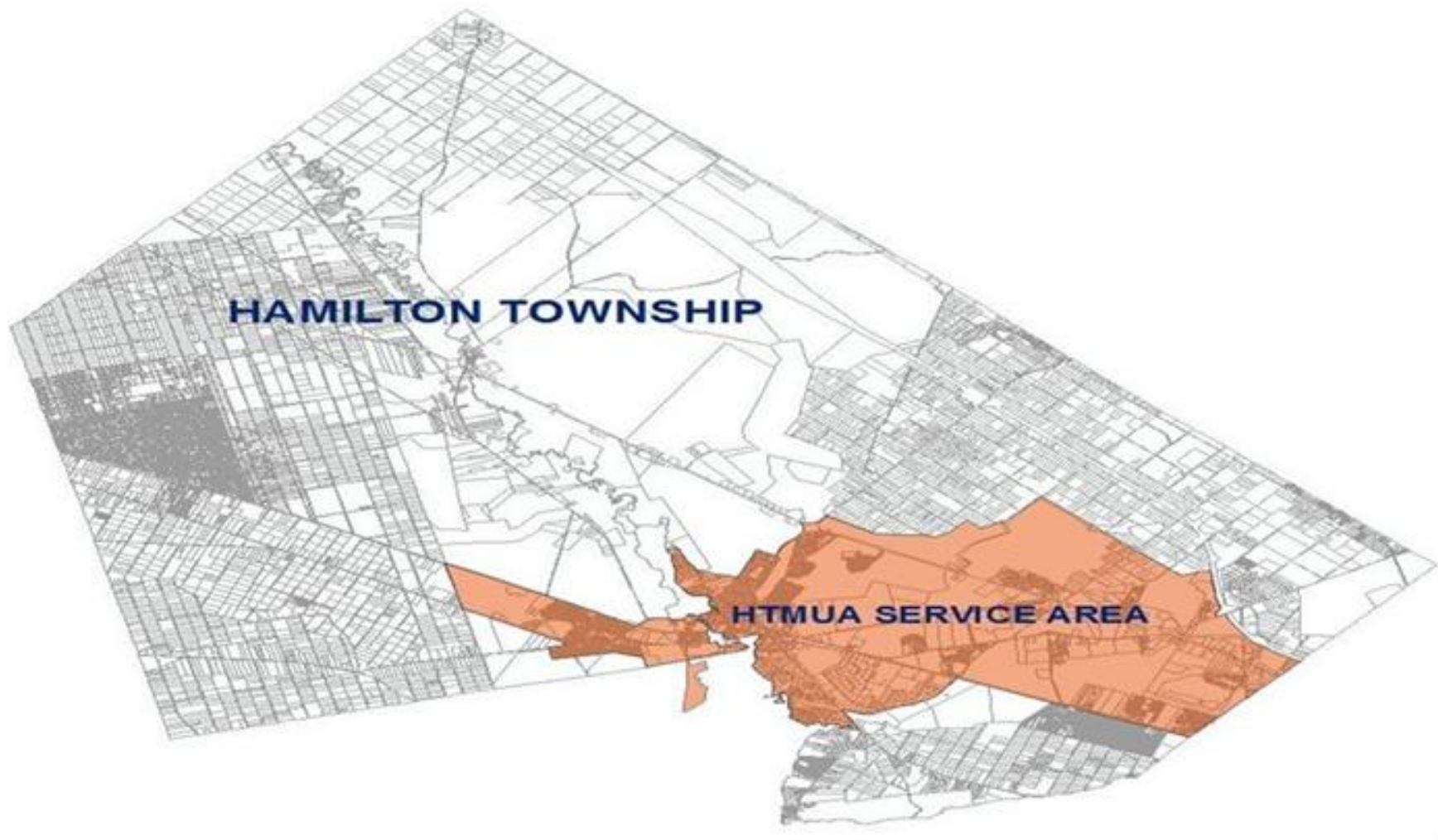
The Board of the Authority consists of five regular members and up to two alternate members. Each member serves a five (5) year term, with regular members' serving staggered terms. The Authority employs administrative, operational and technical staff to run the day to day operations. Consultants, representing the engineering, legal, auditing, bond counsel professions, are utilized as required.

Members are responsible for setting policy; approving planning goals and objectives; and overseeing the Authority's affairs. The Authority meets monthly and, if needed, at special meetings. The Authority operates on a fiscal year commencing September 1st and ending August 31st. At a minimum, the Authority's rate schedule is examined on an annual basis and modified, if warranted.

1.2 SERVICE AREA

The service area of the Authority is approximately 25 square miles and consists of the Regional Growth District of the Pinelands Commission's Comprehensive Management Plan and portions of the Coastal Area Facility Review Act (CAFRA) zone adjacent to the Great Egg Harbor River as per Drawing 1.

The Authority provides bulk water and sewer collection for the Belcoville Section of Weymouth Township. The Authority also provides contract operations for the Weymouth Township MUA and the South Jersey Transportation Authority.



HTMUA SERVICE AREA

SECTION 2 APPLICABLE WATER AND SEWERAGE SERVICE RULES

2.0 DEFINITIONS

The word “Authority” shall mean the Hamilton Township Municipal Utilities Authority (HTMUA).

“Customer” or “Owner” shall mean the applicant for water and/or sewerage service at one household or business who enters into an agreement therefor.

“Main” shall mean Authority owned or leased piping and appurtenances, in or along public highway and streets, or along privately owned right of way, used for the transmission or distribution of water to or for the collection of domestic or industrial sewage from its customers.

“Domestic Sewage” shall mean the normal water borne fluid wastes from residences, commercial establishments, institutions and industrial establishments limited to the wastes of kitchens, bathrooms, water closets, lavatories and laundries.

“Industrial Sewage” shall mean the liquid wastes from commercial or industrial processes as distinct from domestic sewerage.

“Authority Engineer” shall mean a consulting engineering firm hired by the Authority for engineering work.

“Residential User” shall mean:

1. Single family - a building on a lot designed or occupied exclusively as a single residential unit.
2. Two family - a building on a lot or tract of land designed and occupied exclusively as two (2) residential units whether through rental or fee simple arrangements.
3. Multi family - a building on a lot or tract of land designed and occupied exclusively as a three (2) residential units whether through rental or fee simple arrangements.
4. Boarding house, lodging house, nursing home, hotel or motel - A dwelling having one kitchen and used for the purpose of providing lodging or both lodging and meals for pay or compensation of any kind whether computed by day, week or month, to persons occupying such dwellings other than members of a family.

“Other than Residential User” shall mean all users in connections other than residential, including but not limited to, business, commercial, industry, restaurants, taverns, theaters, camps, churches, schools, hospitals, etc.

“Builder/Developer” shall mean one who engages in the construction of any project other than one single family home at any given time.

2.1 SEWER AND WATER CONNECTIONS

The following applicable citations are hereby noted:

- 2.1.1 General: National Standard Plumbing Code Section 2.19.1: The water distribution and drainage system of any building in which plumbing fixtures are installed shall be connected to a public water supply and sewer system respectively, if available. A public water supply system and/or public sewer system shall be deemed available to a premise used for human occupancy if the property line of such a premise is within 200 feet, or such other reasonable distance as determined by the Administrative Authority, and a connection conforming with the standards set forth in this Code shall be made hereto.
- 2.12 NJ Safe Drinking Water Act (NJAC 7:10-12.5c-1): “If an adequate public water source is available and if connection can legally be made thereto, the realty improvement shall be supplied with water from that source.”

2.2 APPLICATION FOR SERVICE

- 2.2.1 Water and sewer service allocations and connections will be considered upon the submission of a written application, which shall be signed by the property owner or the property owner’s authorized agent. Applications will be furnished by the Authority. All applications must receive the approval of the Authority before a connection(s) or change in a class of service is allowed.
- 2.2.2 No application for service will be accepted by the Authority until the applicant has paid or made satisfactory arrangements to pay all arrears and charges, including real estate taxes, due by the applicant. Each application must be accompanied by a proof of payment certification signed by a representative of the Township of Hamilton Tax Collector’s office.
- 2.2.3 An accepted and approved application shall constitute a contract between the Authority and the applicant. The contract obliges the applicant to pay to the Authority the applicable rates established by the Authority and to comply with the Authority’s rules and regulations.
- 2.2.4 When an applicant makes an application for a new service, or has applied for the reinstatement of an existing service, it is assumed that the piping and fixtures on the applicant’s premises are in good condition. The Authority shall not be liable for any accident, break(s), leak, frozen pipe(s) or fixtures or for any damage to the property which may result from the use of water supplied by the Authority to the premises.
- 2.25 The owner of the property is responsible for the payment of any water and sewer bills.
- 2.2.6 The owner’s name shall appear on the actual billing and account record.
- 2.2.7 Industrial, commercial, public or institutional establishments shall complete and submit a commercial/industrial application for water and/or sanitary

sewerage service. The application requires the submission of a detailed description of the type and size of buildings, the nature of the business(es) to be conducted in each structure, the number of type of fixtures to be served, the type volume and chemical characteristics of wastes to be discharged. Such applicants shall also furnish to the Authority two (2) copies hard copies and one (1) digital copy of the plan(s) showing:

- The boundaries of the property.
- The location within the property of the structures to be served.
- The location of and profile, with respect to the finished grade of the services.
- Details of the proposed connections to the water and sewerage systems, and arrangements and details of meter installation. (Refer to paragraph 9.14 with respect to the admissibility of industrial wastes)
- Any other requirement so noted on the application.

2.3 RESPONSIBILITY FOR SERVICE

It is agreed by the parties receiving public water, fire service, private fire service, sewer service or any service whatsoever, that the Authority does not assume any liability as insurer of property or person and that the Authority does not guarantee any special service, pressure, capacity, or facility, other than is permitted by the ordinary and changing operating conditions of the Authority as the same exists from day to day.

The Authority shall not be liable for any loss, injury, casualty or damage resulting from fire or water, or other agency, resulting from the supply or use of water service or the failure thereof, which may occur on account of a fire service connection, or from the presence or operation of the Company's structures, equipment, pipes, appliances or devices on the customer's premises or connected therewith.

It is agreed, by the parties receiving service, that the Authority shall be free and exempt from any and all claims for injury due to any persons or property by reasons of fire, water, sewer service, failure to supply water pressure or capacity.

2.4 PRIVATE WATER AND SEWER SYSTEMS – DELINEATION OF RESPONSIBILITY FOR SERVICE

2.4.1 A "private system" is defined as any water main, sewer main and related appurtenances, excluding water meters, situated within:

- a. A residential condominium, cooperative, fee simple community, or horizontal property regime where the residents of which do not receive any tax abatement or tax exemption related to its construction, comprised of a community trust or other trust device, condominium association, homeowners' association, or council of co-owners, wherein the cost of maintaining roads and streets and providing essential services is paid for

- by a not-for-profit entity consisting exclusively of unit owners within the community.
- b. An apartment building or garden apartment complex owned by an individual or entity that receives monthly rental payments from tenants who occupy the premises.
- c. A commercial or industrial property.
- d. A government property (Local, County, State, Federal, etc.)
- 2.4.2 The Authority will not be responsible for the inspection, testing, operation and/or any maintenance functions related to an internal private system unless otherwise formally accepted by a formal resolution of the Authority.
- 2.4.3 Projects maintaining a sewer pump station shall provide the authority with the contact information of the person or entity responsible for the operation and/or servicing of the pump station and system.
- 2.4.4 Failure to make timely repairs will result in the Authority implementing the necessary repairs and invoicing the responsible party for the applicable expenditures.

2.5 FEES

- 2.5.1 In addition to service charges, fees may be charged in accordance with the HTMUA schedule of fees, which may be revised at any time provided applicable notice is provided.
- 2.5.2 The following are examples of the fees that may be incurred:
 - 1. Project Review Fees: All applicants shall post review fees pursuant to these rules.
 - 2. System Modeling Fees: An applicant may be required to post system modeling fees or perform system modeling at the request of the Authority pursuant to these rules.
 - 3. Water and Sewer Allocation Fees: All applicants shall purchase the required water and sewer allocation as a condition of receiving a building permit from the Township of Hamilton in accordance with these rules.
 - 4. Project Inspection Fees: All applicants shall post inspection fees pursuant to these rules.
 - 5. Lateral Construction Fee: A fee for the installation of a water and/or sewer lateral from the main to the street curb (or side) by Authority personnel will be charged to the applicant. The fee includes, but is not limited to, a corporation, curb stop, curb box, back flow device, meter pit, lateral material, sewer clean-out and site restoration.
 - 6. Water Meter Fee: Each applicant will be responsible for the cost of a meter, including radio MIU, based on the size of the service to be installed.
 - 7. Miscellaneous:
 - a) Return Check fee
 - b) Delinquent service restoration fee
 - c) Meter test
 - d) Meter tampering penalty
 - e) Publications

- f) Authority labor rates
- g) Hydrant usage

2.6 COMMENCEMENT OF SERVICE CHARGES

Unless the Authority determines otherwise, service charges for both water and sewer shall begin to accrue on the earlier of the following dates:

1. The date of the actual connection to the water and/or sewer lateral(s) servicing the property.
2. With respect to future construction, service charges shall begin to accrue on the date of the issuance of a certificate of occupancy.
3. With respect to future construction, water service charges shall begin to accrue on the date the water meter is installed or when water or sewer flows to or from the property if it precedes the issuance of a certificate of occupancy for the property.

2.7 SERVICE CHARGES AND PAYMENT

- 2.7.1 Service charges are payable at the office of the Authority.
- 2.7.2 Service charges are billed monthly and will be rendered on or about the first days of the month. All bills are due and payable on presentation or delivery
- 2.7.3 Water service charges consist of a fixed service charge and an excess consumption charge in accordance with prevailing rates. The excess consumption charges are based on water usage from the prior month.
- 2.7.4 Sewer Service Charges
 - a. Residential charges are based on flat rate.
 - b. Commercial, Industrial and Government charges are based a fixed charge and an excess usage charge in accordance with prevailing rates. The excess usage charges are based on water usage from the prior month.
 - c. The treatment cost assessed by the Atlantic County Utilities Authority (ACUA) to the Authority are included in the above noted charges.

2.8 TIMELY PAYMENTS

- 2.8.1 Payments of any service charges shall be by the twenty-fifth day of the month the service charge(s) was issued in.
- 2.8.2 Payments made by mail will be credited on the date received.
- 2.8.3 Service charges unpaid by the twenty-fifth day of the month the bill was issued in shall be classified as delinquent. If a service charge remains unpaid after being classified as delinquent, service may be discontinued. If service is discontinued, it will not be restored until all past due service charges and administrative fees are paid or satisfactory payment arrangements are made. Interest shall be charged on the unpaid balance at the statutory rate, which is currently 1.5% per month.
- 2.8.4 Liens: Any unpaid balances, including interest and penalties, will be subject to a lien on the parcel of real property with respect to the service which was rendered with the affect and pursuant to the procedure specified under NJSA 40:14B-42. Notice of delinquent charges shall be given annually by the

Authority to the collector of taxes of the Township of Hamilton. Customers in compliance with a Board approved payment plan shall be excluded from the lien list.

2.9 DELINQUENCY POLICY

- 2.9.1 Service charges unpaid by the twenty-fifth day of the month the bill was issued in shall be classified as delinquent.
- 2.9.2 A reminder notice may be mailed by the Authority to those customers that are still delinquent by the middle of the following month.
- 2.9.3 If payment is not received by the 25th of the month following the issue month of the bill, an administration fee will be assessed and service may be terminated.
- 2.9.4 If service is terminated for non-payment, the administration fee and all past due balances must be paid in order for service to be restored.

2.10 BILLING ADJUSTMENTS

- 2.10.1 If a customer wishes to challenge the accuracy of their monthly service charges, the customer may request a water meter test as outlined in Section 8.12.12.
- 2.10.2 From time to time, the Authority may discover that ratepayer accounts have been unbilled or under billed.
 - a. In cases involving service charges, the Authority will bill up to six years of arrearages. No interest or penalties will be assessed on the balance and the Authority, at its discretion, will allow for a payment plan up to but not greater than the time period of the arrearages to be collected.
 - b. In cases involving unbilled or under billed allocation/connection fees, the Authority will assess allocation/connection fees at the prevailing rate as outlined in the HTMUA's rate schedule. Interest and penalties will not be assessed on the balance. The Authority, at the its discretion, may allow for a payment plan up to six years.

2.11 CONTINUING OBLIGATION TO PAY WATER AND SEWER SERVICE CHARGES

Upon connection of an approved property to a water or sewer main, the owner incurs an obligation to pay the monthly service charges. Monthly service charges will continue to be incurred whether or not the property is occupied and whether or not there is water or sewer use.

2.12 DISCONTINUANCE OF SERVICE (BY ACTION OF THE OWNER)

- 2.12.1 Existing Structure: All agreements covering water supply and/or sewerage service shall continue in force, as long as the structure remains. An owner

may request to terminate physical service to a structure, however, the minimum monthly service charges will continue to be incurred.

- 2.12.2 Demolished Structures: In the case of a demolished structure, the owner is obligated to remit the monthly service charge(s) to retain the allocation rights assigned to the property. If the owner desires to terminate the account and thereby eliminate any additional accrual of charges, the owner must do so by written request to the Authority. The termination of the account to the demolished property does not eliminate the requirement to pay the account balances accrued. Termination of the account results in a rescission of water and/or sewer capacity/allocation rights to the property. Future applicants will be required to purchase additional water and/or sewer capacity/allocation rights at the then prevailing rates. The request of the owner for account termination must include an acknowledgment of the aforesaid provisions.

2.13 DISCONTINUANCE OF SERVICE (BY ACTION OF THE AUTHORITY)

Service may in the sole discretion of the Authority, be discontinued for any of the following reasons:

- 2.13.1. Misrepresentation in an application.
- 2.13.2 Willful waste of water through improper or imperfect pipes, fixtures, or otherwise.
- 2.13.3 Failure to comply with restrictions imposed pursuant to these rules.
- 2.13.4 Use of water for any other property or purpose than that described in the application.
- 2.13.5 Tapering any service pipe, meter, curb, stop cock, valves, seals or any other appliance of the Authority.
- 2.13.6 Neglecting to make a renewed deposit, for any nonpayment of any charge accruing under the application.
- 2.13.7 Refusal of any reasonable access to the property for the purposes of inspecting, reading, repairing or removing a water meter(s).
- 2.13.8 Any cross connection between a pipe or fixture carrying water furnished by the Authority and a pipe or fixture carrying water from any other source.
- 2.13.9 Nonpayment of bills within the time prescribed by Section 2.7.
- 2.13.10 Violation of any of the rules of the Authority.

2.14 RENEWAL OF SERVICE AFTER DISCONTINUANCE

Service will be renewed, under proper application, when the conditions under which such service was discontinued have been corrected and upon the payment of all proper charges or amounts provided in the schedule of rates or rules of the Authority, due from the applicant.

2.15 TURN OFF WITHOUT AUTHORITY

Neither the customer or any plumber or any other person shall turn the water on or off at any corporation stop, curb stop or water valve; or disconnect or remove the meter or permit its disconnection or removal, without the written consent of the Authority.

2.16 UNAUTHORIZED CONNECTION TO SEWER/WATER SYSTEM

Any property owner or person(s) authorizing or performing an unauthorized connection for water or sewer services to a property without the permission of the Hamilton Township Municipal Utilities Authority is subject to legal recourse by the Authority. Prior to the granting of said permission, all connection and lateral fees must be paid.

2.17 EMERGENCY PROVISIONS

2.17.1 System Shutoff/Disruption - In the event of an emergency or for any other unavoidable cause, the Authority shall have the right to temporarily cut off the water supply in order to make any necessary repairs. The Authority will use all reasonable and practicable measures to notify effected customers of same. In such cases, the Authority shall not be liable for any damages or inconvenience experienced by its customer(s); or any claim against it at any time for the interruption in service, the lessening of the supply, fluctuations in pressure, poor quality of water, or for any causes beyond its control.

2.17.2 When the supply of water is to be temporarily interrupted on a scheduled basis, notice will be given, when practicable, to all customers affected by the temporary interruption of service, stating the probable duration of the interruption, and also the purpose of the interruption.

2.17.3 Water Emergency/Water Restriction - At the request of the Authority, the Township of Hamilton adopted Ordinance #1237-96 on January 24, 1997 instituting provisions to address the need to enforce the restriction of water usage during emergency situations. The components of the Ordinance are as follows:

1. Declaration of Water Emergency: In the event of a declaration by the State of New Jersey, Hamilton Township Municipal Utilities Authority, or any other government entity of an emergency situation with respect to the availability of potable water from its water distribution system, it shall be unlawful for customer of the Authority upon receiving actual or constructive notice of such declaration, to use water from the water distribution system of the Authority for the purposes of watering lawns or gardens, washing motor vehicles, filling swimming pools or such other water usage as may be prohibited in the declaration set forth by the Authority.
2. Limited Use During Periods of Low Water Pressure: In the event of a declaration by the State of New Jersey, Hamilton Township Municipal Utilities Authority, or any other government entity of an existing or

anticipated state of low water pressure in the distribution system of the Authority, it shall be unlawful for any customer having an address ending in an odd numeral, or in the event there is no numeral using the lot number, after receiving actual or constructive notice of such declaration, to use water from the distribution system of the Authority for the purposes of watering lawns or gardens, washing motor vehicles, filling swimming pools or such other use as may be identified by the Authority in the declaration on other than an odd date; and it shall be unlawful for any person or corporation having an address ending in an even numeral, or in the event there is no numeral using the lot number, to use water from the distribution system of the Authority for the purpose of watering lawns or gardens, washing motor vehicles or filling swimming pools or such other use as may be identified by the Authority in the declaration on other than an even date.

3. Enforcement of Water Use Restrictions: The water use restrictions imposed pursuant to the Ordinance shall be enforced by the local authorized official of either the Township or the Authority. Whenever a local authorized official shall find a violation of the water use restrictions, such authorized official shall give the violator a written warning and explain the penalties for a second and third offense as provided in Section 4 of the Ordinance. The local authorized official shall keep such records as may be reasonable and necessary for the purpose of determining the persons and businesses who have been warned upon a first offense. The local authorized official is hereby empowered to write summonses for the violation of the water use restrictions imposed pursuant to this Ordinance and the declaration of the Authority.
4. Penalties: Following a first offense as set forth in Section 4 of the Ordinance, any person or business who thereafter violates the water use restrictions imposed pursuant to the Ordinance shall be subject to a fine of not less than \$200 for the second offense and \$500 for the third and each additional offense. Each and every day that a violation exists shall constitute a separate violation.

2.18 RESERVE SUPPLY/WATER CONSERVATION

2.18.1 General - The Authority shall have the right to reserve a sufficient supply of water at all times in storage, to provide for fire and other emergencies or may restrict or regulate the quantity of water used by its customers in case of scarcity or whenever the public welfare may so require.

2.18.2 Water Conservation/Emergency/Water Restriction Phases

1. Phase I
 - a. Commences May 1 and ends October 1
 - b. Method is odd/even as follows: Addresses ending in an even number may water lawns on even calendar dates. Addresses ending in an even number may water lawns on even calendar dates.

- c. A lot with no actual address number may water lawns on even calendar dates.
 - d. The 31st of May, July and August are “closed lawn watering dates” - no lawns may be watered.
- 2. Phase II
 - a. Commences under severe emergency condition or period of drought.
 - b. Implemented by the State of New Jersey, resolution of the HTMUA or other government entity with notification via newspaper, radio, television, etc.
 - c. All outside watering except for car washing and filling of swimming pools, restricted to 6:00 p.m. to 12:00 a.m. on odd/even days.
- 3. Phase III
 - a. Commences under extreme emergency condition or period of drought.
 - b. Implemented by the State of New Jersey, resolution of the HTMUA or other government entity with notification via newspaper, radio, television, etc.
 - c. All outside watering strictly prohibited.

Commercial Customers - All commercial customers and “Common Area” Irrigation Accounts may water Monday through Friday, 12:00 a.m. to 4:00 a.m. Irrigation on the weekends is prohibited Odd/Even designation does not apply.

2.19 RESOLUTION IN EFFECT

This resolution shall take effect immediately, and a copy shall at all times be kept on file at the principal office of the Hamilton Township Municipal Utilities Authority and shall at all reasonable times be open to public inspection. All resolutions, rules or regulations inconsistent herewith are hereby rescinded. The Authority shall, as it deems necessary, amend these Rules and Regulations by passage of an amending resolution at a duly authorized meeting of the Authority.

2.20 COMPLIANCE WITH RULES AND REGULATIONS

Customers and applicants shall comply with all the Rules and Regulations as set forth herein. Failure to do so will result in a “stop work order” by the Authority. These Rules and Regulations are minimum requirements, and are not intended to replace detail specifications which are the responsibility of the applicant. They are intended to apply to usual and not the exceptional conditions. These Rules and Regulations are subject to amendments by the Hamilton Township Municipal Utilities Authority. The Authority reserves the right to specify additional requirements.

SECTION 3 CONSTRUCTION OF COMPREHENSIVE WATER SYSTEMS AND/OR MAIN EXTENSIONS

3.0 GENERAL CONDITIONS

Under normal circumstances, future extensions and/or changes to the Authority's water system are the responsibility of an applicant requesting the extension or change. This policy shall also include water treatment facilities in that no water treatment facilities shall be constructed within the Township and the Authority's service area without the Authority's consent and approval.

All water mains and appurtenances (including valves, fittings and hydrants) whether installed by the Authority or not shall be owned and maintained by the Authority, when said mains and appurtenances are located in dedicated streets, rights of way or easements.

Mains constructed outside of public rights-of-way may be owned and maintained by the Authority on a case-by-case basis at the sole discretion of the Authority. If accepted for ownership the infrastructure will require the establishment of easements acceptable to the Authority.

The Authority shall charge capacity/allocation fees for the privilege to connect to its water system in accordance with the scheduled rates in effect at the time of purchase.

3.1 CONDITIONS REQUIRING THE INSTALLATION OF WATER SYSTEMS AND/OR MAIN EXTENSIONS

Any major subdivision, multi family structures, all non-residential developments (i.e., schools, commercial buildings, industrial buildings) and all other structures shall be required to install all water mains and appurtenances required to connect to the Authority's water system in accordance with the provisions of these rules and regulations except as herein provided.

If an applicant's plans are deemed by the Authority to be too remote from the Authority's water system, the applicant may be required to construct stand-alone water supply and storage infrastructure. Said plans shall be subject to the approval by the Authority in accordance with the standards and requirements as hereinafter set forth, and as may be required by other governmental regulatory agencies.

3.2 RESIDENTIAL DESIGN STANDARDS

New Jersey Residential Site Improvement Standards: Effective June 3, 1997, the Residential Site Improvement Standards (NJAC 5:21 et al) superseded and replaced all technical requirements established by municipal agencies with regard to water supply and sanitary sewers. Accordingly, the Authority design requirements for residential construction as set forth by this legislation are the State mandated standards.

3.3 NON-RESIDENTIAL DESIGN STANDARDS

The design of a non-residential facility shall use the residential standards as a base with regard to material types. The following criteria are added to the requirements stipulated in the Residential Site Improvement Standards.

3.3.1 Capacity/Allocation

The average daily, maximum and peak hourly demand rates for commercial, industrial and institutional areas shall be considered separately in the computation of the total system demand and the quantities to be added shall be determined by the Builder/Developer and approved by the Authority. Maximum daily flow shall be considered as three (3) times the average daily flow unless a lesser peak factor can be demonstrated by the applicant to the satisfaction of the Authority Engineer. Peak hourly flow shall be considered as 4.0 times the average hourly flow.

3.3.2 System Design and Placement

1. Looped Systems: Looped service connections are permitted, if necessary for flow redundancy or fire protection. Where such systems are provided the design shall provide a metering scheme that accounts for all metered domestic flow through the project. Dead end mains, if proposed shall address impacts due to a service outage. All dead ends must have an adequate means of flushing that is approved by the Authority. Additionally, all dead ends must have adequate means of flushing.
2. Building Service Connections shall be constructed with a valve at the connection to the distribution main. The potable service may be derived from an approved fire service main. In all cases, the potable service, as well as the fire service, shall be protected against backflow. The fire service backflow prevention device (double check valve) shall be in accordance with ASSE 1013 or 1015. The potable service shall be metered. A service greater than 2-inches in diameter shall incorporate a strainer and a bypass line. Valves shall be installed on each side of the meter.

A fire service line is not required to be metered. However, a “use detector” check valve or meter shall be installed.

All physical connections to non-potable sources of water as defined in NJAC 7:10 subchapter 10 or as determined by the Authority Engineer shall provide backflow prevention in accordance with the NJDEP Act.

3. Water mains shall be constructed utilizing CLDIP, Class 52, ductile iron pipe as specified in the Residential Site Improvement Standards.
4. Services equal to or less than 2-inches in diameter shall installed with “K” copper between the main and the curb stop.
5. The use of potable water distribution system for irrigation systems for non-residential uses is prohibited. Non-residential applicants may request a waiver in accordance with the provisions of the Authority’s commercial irrigation waiver policy listed below:
 - a) The maximum square footage of the irrigation will be no greater than 750 square feet.

- b) One additional water Domestic Consumer Unit (DCU) shall be assessed for commercial irrigation.
- c) A separate water meter shall be installed for the irrigation system.
- d) The maximum seasonal (April-September) irrigation usage shall not exceed 100,000 gallons.
- e) Should the usage exceed the allowance, the HTMUA reserves the right to assess additional water allocation fees, service charges and excess water charges to cover the excess.
- f) If abuses are discovered whereby the user is not abiding by acceptable water conservation measures (e.g., watering during rain events, neglected systems in need of repair, etc.), the Authority reserves the right to revoke the waiver and require the user to convert the irrigation to a private well.
- g) If regulatory agencies (i.e., NJDEP) revise their water conservation requirements, the user agrees to abide by those requirements up to and including the elimination of the waiver granted by the Authority for commercial irrigation.

3.4 **SPECIFIC STANDARDS UNDER THE DISCRETION OF THE AUTHORITY ACCORDING TO THE RESIDENTIAL SITE IMPROVEMENT STANDARDS**

3.4.1 Water Meters

1. The Authority requires the applicant to purchase the applicable size and type water meter including all related fittings.
 - a) Residential: Unless otherwise determined, all water meters shall be installed in water meter pits located behind the curb line or as determined by Authority personnel. The water meter shall become the Authority's property. The water meter shall also incorporate an automatic meter reading system utilized by the Authority at the time of its purchase.
 - b) Non-Residential: At the time of submission, a determination of the Applicant's proposal for metering flow, including site location and the method for housing the meter (ie. inside installation or meter vault) will be made by Authority personnel in conjunction with the Authority Engineer. In addition, the applicable water meter(s) shall become the Authority's property. The water meter shall also incorporate an automatic meter reading system utilized by the Authority at the time of its purchase.
2. The Applicant shall be required to install the meter(s) and appurtenances as currently specified and approved by the Authority.
3. Meters shall read in US gallons.

3.4.2 Pipe Materials

1. If an approved plan allows the installation of PVC water main, the installation must include main/lateral location capabilities approved by the Authority along with a digital record(s) submission to current NAD and NAV datums and with sub-centimeter accuracy.

3.4.3 Fire Hydrants

1. All fire hydrants shall comply AWWA C502 as well as with the Authority's standard detail. Hydrants shall be equipped with one (1) 4-½" pumper nozzle and two (2) 2-½" hose nozzles and shall be equivalent to Mueller Super Centurion 200, Model A-423.
2. All hose and pumper nozzles shall conform to the NATIONAL STANDARD HOSE COUPLING THREAD SPECIFICATIONS.
3. The connection pipe and valve from the tee in the main line to and including the Fire Hydrant shall be mechanical joints, and shall be the same type as specified elsewhere in these specifications.
4. Hydrants shall be five and one-quarter (5-¼) inch in size and six (6) inch mechanical joint inlet connection.
5. Hydrants shall have the name of the manufacturer, size, and year of manufacture cast upon it in raised letters.
6. The main valve of the hydrant shall open against pressure. This valve shall be faced with rubber which shall seat against an accurately machined bronze seat. The direction of opening shall be cast upon the hydrant head in raised letters.
7. All hydrants shall be of such height that the six (6) inch pipe connection shall be made at a depth of four (4) feet. Extension to the fire hydrants may be required to bring the hydrant to proper grade.
8. Painting - All ferrous metal shall be satisfactorily and at all times protected by a durable coating of paint to the color specified by the Authority. All metal surfaces not buried in the earth shall be left clean and well painted to the satisfaction of the Authority's Engineer at the completion of the project.
9. The hydrants shall be anchored to the main valves as approved or directed by the Authority Engineer.

3.4.4 Fittings

1. All fittings shall be full body new and suitable for a minimum working pressure of 150 psi and meet all requirements of AWWA C110.
2. All dead ends mains shall be valved and have, at minimum, one additional pipe installed and closed with iron plugs or caps.
3. All fittings shall be mechanical joint. The use of restraining glands is permitted. All bends greater than 11 ¼ ° shall include thrust block prevention in accordance with the Authority standard details.

3.4.5 Valves

1. Valves shall be located on each leg of intersecting mains.
2. Valves shall meet AWWA C509 (Resilient Seated Gate Valves) and open in a counter clockwise direction.
3. The valve shall include a cast iron adjustable 2-piece box with round cast iron cover marked "WATER".

3.4.6 Residential Services

All new 2" or less water service connections shall be installed with a check valve.

3.4.7 Service Connections

All new residential water connections shall be installed as per Authority details. The below listed components have been approved for use by the Authority:

1. Curb Box: Mueller H-10310 or H-10314, extension-type with arch pattern base.
2. Corporation Stop: Mueller H-15008, CC threaded inlet and compression outlet.
3. Curb Stop: Mueller H-15209, compression inlet and outlet.
4. Meter Box: Mueller Augusta-Coil

3.4.8 Supply Storage and Pressure Boosting Facilities

If act-alone supply, storage and/or pressure boosting stations are required for the development as determined by the Authority Engineer, they shall be constructed in accordance with NJAC 7:10, NJDEP Safe Drinking Water Rules.

SECTION 4 CONSTRUCTION OF COMPREHENSIVE SEWER SYSTEMS AND/OR MAIN EXTENSIONS

4.0 GENERAL PROVISIONS

- 4.0.1 Under normal circumstances, future extensions and/or changes to the Authority's sewer system are the responsibility of an applicant requesting the extension or change. This policy shall also include wastewater treatment facilities, which shall not be constructed within the Township and the Authority's service area without the Authority's consent and approval.
- 4.0.2 All sewer mains and appurtenances including manholes, air release valves, fittings and laterals whether installed by the Authority or not shall be owned and maintained by the Authority, when located in dedicated streets, rights of way or easements. Mains constructed outside of public rights-of-way may be owned and maintained by the Authority on a case-by-case basis at the sole discretion of the Authority. If accepted for ownership, infrastructure outside of the public right-of-way will require the granting and filing of easements approved by the Authority.
- 4.0.3 The Authority shall charge capacity/allocation fees for the privilege to connection to its water system in accordance with the scheduled rates in effect at the time of purchase.

4.1 CONDITIONS REQUIRING THE INSTALLATION OF SEWER SYSTEMS AND/OR MAIN EXTENSIONS

- 4.1.1 Any major subdivision, multi family structure, non-residential development (schools, commercial buildings, industrial buildings, etc.) and all other structures shall be required to install sewer mains and appurtenances to connect to the Authority's sewer collection system. Installation shall be in accordance with the provisions of these rules and regulations except as herein provided.
- 4.1.2 If an applicant's plans are deemed by the Authority to be too remote from the authority's sewer collection system, the applicant may be required to construct and/or operate a system for the collection and treatment of wastewater. Should a private system be warranted, the installation of same shall be approved and governed by other applicable governmental regulatory agencies.

4.2 DESIGN STANDARDS

- 4.2.1 Residential Site Improvement Standards: The Authority's design requirements for residential sewer system construction are per the State of New Jersey's current Residential Site Improvement Standards.

4.3 NON-RESIDENTIAL DESIGN STANDARDS

The design of a non-residential facility shall use the Residential Site Improvement Standards where applicable. The following criteria shall be incorporated as required:

- 4.3.1 Dumpster Wash-down Area Drain: Wash-down areas with drains to the sanitary sewer system shall have locking covers to eliminate extraneous collection of stormwater.
- 4.3.2 Pumping Station

SECTION 4

CONSTRUCTION OF COMPREHENSIVE SEWER SYSTEMS AND/OR MAIN EXTENSIONS

1. All raw sewage shall be mechanically shredded before pumping. The pump station shall contain a minimum of two (2) operating pumps and the Applicant shall furnish one (1) spare pump and motor for Authority inventory. Station design shall require all maintenance to be performed without the need for personnel to enter a confined space. A submersible-style pump station is the MUA's preferred design option.
2. Each pump shall be capable of handling the total peak flow. Each pump shall be designed with a peaking factor equal to 4 times the anticipated average daily flow rate. Peak factors as low as 2.5 times average will be allowed subject to the applicant providing sufficient flow data as determined by the authority engineer to support the reduced value.
3. Force main velocities shall be not less than 2 feet per second at normal pumping rate.
4. Wet wells shall be of sufficient size to furnish the required sewage storage capacity and provide sufficient room for the removal of pumps and mechanical grinding equipment. Wet well floors shall slope toward the suction pump. All check valves and associated discharge piping shall be contained in a separate concrete valve chamber. Adequate access and ventilation shall be furnished for both the wet well and valve chamber. A stainless steel lifting davit and hoist shall be furnished to facilitate pump and mechanical grinder removal.
5. In addition to the mechanical grinder unit, the Applicant shall furnish an emergency debris basket to be utilized when the grinder is taken out of service.
6. An auxiliary source of power housed in a super-structure to conform to the neighborhood architecture shall be provided for all electrically driven pumps. If natural gas is available to the property, then generators less than 100 kw shall utilize natural gas as the power source.
7. Each pumping station must be on a full size lot based on the existing zoning ordinance. The Authority reserves the right to increase or decrease said lot size requirements. The plans and specifications must include provision for lawns, shrubbery, paved drive and concrete walk. The entire property must be surrounded by a security fence. Truck and pedestrian gates shall be provided. The paved drive shall have a total thickness of 10-inches (6-inches of compacted road gravel and a 4-inch FABC finished surface). The concrete walk shall be 4 inch minimum thickness 4000 psi.
8. The pump station shall include components necessary to interface and transmit alarms, run signals, etc. with the Authority's SCADA system.
9. Adequate light, ventilation, heat and potable water supply with applicable backflow prevention devices and a frost proof hose bib shall be provided for all stations.
10. All metal components in the wet well shall be stainless steel. Pipe guides shall be Schedule 80. Galvanized rails, supports, etc. are not permitted.

SECTION 4 CONSTRUCTION OF COMPREHENSIVE SEWER SYSTEMS AND/OR MAIN EXTENSIONS

11. All junction boxes for control wires, power supply, etc. shall be located outside of the wet well. Explosion-proof junction boxes inside the wet well will not be permitted.
12. Detailed operational costs of the pumping station must be submitted with the Engineer's estimate.

4.3.3 Treatment Plant

1. Wastewater is collected through Authority's local system and discharged into the Coastal Interceptor operated by the Atlantic County Utilities Authority. Therefore it is unlikely that a satellite or on-site treatment plant will be necessary.
2. If a treatment plant is required, it shall be consistent with the Atlantic County Wastewater Management Plan, comply with all regulations set forth in the Pinelands Commission Management Act.
3. Treatment plants shall be located a minimum of 1000 feet from the nearest dwelling or other building and shall be contained within a security fence.
4. Design of stand-alone wastewater treatment plants shall be in accordance with NJAC 7:14A.

4.4 SPECIFIC STANDARDS UNDER THE DISCRETION OF THE AUTHORITY ACCORDING TO THE RESIDENTIAL SITE IMPROVEMENT STANDARDS

4.4.1 Manholes

1. Manholes shall be constructed in accordance with the standard Authority detail.
2. All drop manholes and manholes with force main discharges shall include a PVC liner.
3. Where possible, casting adjustments to grade shall be made using grade rings in lieu of masonry blocking.

4.4.2 Clean-outs

1. All clean-outs shall be fitted with a metallic cap (or a nonmetallic cap fitted with a metallic plug) that can be located with a metal detector (brass is not suitable).
2. Install a "sweep tee" in bottom of clean out.

4.5 WASTES DISCHARGED INTO THE SANITARY SEWERS

4.5.1 Sewage received into the facilities of the Authority shall not:

1. Be in such quantity as to impair or exceed the hydraulic capacity of such facilities as determined by the Authority's Engineer.
2. Contain any amount of solid matter that will prevent self-scouring flow when carried in sewers installed at the minimum design values. If a customer is determined by the Authority to be responsible for discharging such solids and/or loadings, the Customer shall be responsible for their removal. If the Authority, or other regulatory agency, requires the installation and operation of an approved pre-

SECTION 4

CONSTRUCTION OF COMPREHENSIVE SEWER SYSTEMS AND/OR MAIN EXTENSIONS

treatment system, said system shall be furnished, installed and operated by the customer.

3. Be of such a nature as to, by either chemical or mechanical action, impair the strength or the durability of the sewer facilities; create explosive conditions; contain any matter, material or substance, which after undergoing normal treatment would not be removed from the treatment plant's effluent.
 4. Have a flash point lower than 235°F., as determined by Tagliabue (Tag.) closed cup method;
 5. Have a pH index value lower than 5.5 or higher than 9.0;
 6. Include any radioactive substance, unless written consent has been obtained for its inclusion;
 7. Include any garbage other than that received directly in public sewers from residences;
 8. Be discharged from tank trucks into manholes of the sewage system.
 9. Contain fats, oils and grease in concentrations greater than 100 parts per million. (Refer to Section 9.16 regarding Grease Collectors)
- 4.5.2 For industries discharging industrial waste, a written contract with the industry shall be required.
- 4.5.3 Requirements established by the Atlantic County Utilities Authority will supersede.

SECTION 5 APPLICATIONS TO THE AUTHORITY

5.0 GENERAL PROVISIONS

- 5.0.1 Prior to any consideration, an appropriate application shall be filed with the Authority along with any applicable fees.
- 5.0.2 Applications fall into the following categories:
- Single Family
 - Conceptual Residential Development (two or more units)
 - Comprehensive Residential Development (two or more units)
 - Conceptual Commercial/Industrial/Public/Institutional
 - Comprehensive Commercial/Industrial/Public/Institutional
 - Change of Use
 - Bulk Water Use
- 5.0.3 No review fees are required for the filing of the single family application unless a main extension or a detailed evaluation is required in order to process the application. The review fee for all other applications is 1½% of the estimated water and sewer construction cost with a minimum fee as established in the prevailing rate schedule.
- 5.0.4 All applications are to be signed by the Owner or by an authorized agent or representative. An application signed by an authorized agent shall be accompanied by a notarized affidavit indicating the owner's authorization.
- 5.0.5 Approvals are valid for a period of **two (2) years** commencing on the date final approval is granted by the Authority. If construction on an approved project does not commence at the end of the 2-year approval period, the applicant shall seek re-approval from the Authority.
- 5.0.6 Other Regulatory Agency Approvals:
- a. Final approval by the Authority shall be subject to approval by the New Jersey State Department of Environmental Protection and/or the Atlantic County Utility Authority.
 - b. Permits to construct water and sewer infrastructure within State, County and Municipal right of ways and all railroads must be secured and paid for by the applicant. The applicant shall also be responsible for securing any necessary clearance from any public utility involved.
 - c. The applicant is responsible to obtain all other relevant permits/approvals including but not limited to the Township of Hamilton Planning Board, the Atlantic County Planning Board, the Cape-Atlantic Soil Conservation District, the Pinelands Commission, etc. and file same with the Authority.

5.1 CONCEPTUAL REVIEW PROCESS

- 5.1.1 Before filing a comprehensive application, the applicant shall file a conceptual application to discuss the project to determine feasibility, capacities and/or any constraints.
- 5.1.2 Review fees will be assessed on an hourly basis in accordance with Authority's consulting engineer's prevailing hourly wage. A minimum review escrow, as established in the rate schedule, shall be submitted with the application. An itemized bill will be forwarded upon completion of the conceptual review process. Charges over the minimum review escrow will be billed to the applicant. Conversely,

SECTION 5

APPLICATIONS TO THE AUTHORITY

unexpended funds will be returned or credited towards a subsequent review or project inspection.

5.1.3 The conceptual review process will discuss the following information:

- a. Feasibility of connecting into Authority's existing system.
- b. Nearest connection points.
- c. Off-site improvements required.
- d. Cost sharing agreements.
- e. Capacity evaluations.
- f. Acceptability of proposed wastewater discharge.
- g. Projection on fees and time frames.

5.2 COMPREHENSIVE REVIEW PROCESS

5.2.1 Instructions: The applicant shall submit a comprehensive application per the form provided by the Authority. An escrow deposit equal to 1.5% of the estimated cost of construction as determined by the Applicant's Engineer and subject to the review and approval of the Authority's Engineer, shall be submitted with the application.

5.2.2 Hydraulic Modeling: – At the Authority's discretion an applicant may incur hydraulic modeling charges to determine a project's impact to the Authority's water and/or sewer systems in accordance with prevailing rates.

5.2.3 Comprehensive Application shall include the following information:

1. Plans and Details: For larger developments an Overall Plan shall be provided that depicts a complete picture of the project's proposed water and/or sewer infrastructure. No restriction shall be placed on the size or scale of the overall plan except that all information shown shall be clear and legible. The detail drawings shall be legible and to a scale not less than 1" = 100' horizontal. The plans shall show roads, curbs, sidewalks, lot lines, boundary lines and a graphic depiction of water and sewer lines with sizes, direction of flow, fire hydrant, valve, and manhole locations. The plans shall consist of the following:

- a. Overall Plan: The overall water and sewer system plan shall be entitled "Overall Plan - Utility System." It shall show the location of the mains, wells, treatment plants, storage tanks, pressure zones, valves, distribution lines, hydrants, manholes, air release valves and the present and future extent of the distribution/collection system.
- b. The plan should be at a scale of 1-inch = 100-feet and shall include a key map.
- c. Details: Plans shall show all existing and proposed improvements including underground utilities, water mains, sewer mains, storm drains, etc. Contours will be shown at 2-foot intervals with proposed streets and surface elevations at all breaks in grade and street intersections, tributary areas with population per acre, the true or magnetic meridian, boundary line, title, date and scale. All sheets shall be numbered. Drawings not meeting reasonable engineering standards as to accuracy and neatness will not be accepted. The following, when applicable, shall be included on the plans:

Manholes (Standard, Drop, PVC Line)

Trench Bedding

Trench Backfill

Fire Hydrants

Thrust Blocks



Water Service Detail

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APPLICATIONS TO THE AUTHORITY

Grease Traps
Sewer Service Detail
Manhole Connections

Meter Pits
Sewer Clean-outs
Casting Details

- d. Symbols: Water mains to be built now, as indicated by this application, shall be shown by dashed lines (----); water mains proposed for future construction to be shown by double dashed lines (-- -- --); existing water mains shall be shown by solid line ().
 - e. Sewer mains to be built now, as indicated by this application, shall be shown by dashed lines (----); sewer mains proposed for future construction to be shown by double dashed lines (-- -- --); existing sewer mains shall be shown by solid line ().
 - f. Elevations: All permanent bench marks of NJ Coast and Geodetic Survey shall be shown. The elevations of the street surfaces shall be shown to the nearest 0.1 foot; the sewer inverts to the 0.1 foot. Sufficient bench marks shall be permanently established for the area, and shall be set at all pump stations, supply, treatment and storage facilities sites.
 - g. Distances, Grades and Sizes: The distances and stationing between valves, depth of cover, water main sizes, manholes, grades in decimal, sewer main sizes, strength class and material shall be shown on the plans. An arrow indicator shall show the direction of the flow.
 - h. Profiles: Profiles shall show all water mains and sewer mains, and shall include final street profile and storm mains design. Gradients and sizes of sewers, surface elevations and sewer inverts shall be drawn to standard scales and the scales shall be shown on each. An index of streets shall also be shown on each. Profile sheets shall be numbered consecutively. Drawings shall conform to the size specified in these Rules.
 - i. Easements: The easements or right of way for placement of utility should be clearly marked.
 - j. Utility Plan: Water and sewer information shall be shown on a separate plan. Plans shall clearly show that no stormwater (i.e., all water from roofs, cellars, streets and any other areas) will enter the sanitary sewer system.
2. Detailed Plans of Pumping Stations and/or Booster Stations
 - a. The plans for the pumping stations and/or booster stations shall include general site plan showing boundaries, one foot contours, proposed underground piping and appurtenances, and any other underground and overhead utilities.
 - b. The detail plans for pump stations and/or booster stations shall show the depth, size and construction of the wet well. The arrangement of mechanical and electrical equipment, piping, valves, fittings, etc., within the various structures shall be shown.
 - c. The detail plans shall also include all necessary equipment, instrumentation, hardware and software for a complete instrumentation and SCADA link to the HTMUA's existing SCADA system.
 - d. The plans and specifications must indicate provisions for landscaping, paved roads and walkways. Drawings shall conform to the size specified with these rules and regulations.

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APPLICATIONS TO THE AUTHORITY

3. General Design Criteria: The following will govern the approximate sizes and locations of mains, points of connections, places of discharge, wells, storage facilities and pumping stations:
 - a. Sewage received into facilities of the Authority shall not impair or exceed the hydraulic capacity of existing facilities as determined by the Authority or the Authority's Engineer.
 - b. If the Authority requires the installation of a sewage pumping station or booster pumping station of greater capacity, depth and/or head than that capacity determined by the Authority as necessary to serve the applicant.
 - c. Depending on the circumstances, the Authority may not assess the increased cost, if any, of the Engineer's review and inspection fee when the increased cost of construction results from a negotiation with the Applicant to upgrade facilities. These provisions will be stipulated in an Agreement between the Applicant and Authority.
4. Specifications: Complete specifications for the construction of the proposed water and/or sanitary sewer systems and appurtenances, including pumping stations and/or booster stations, shall accompany the plans. In addition, the requirements of all governmental regulatory agencies must be satisfied by the submitted specifications.
5. Estimates of Costs: An itemized list of the improvements to be constructed and their associated costs shall be furnished. For phased projects, Estimate shall be segregated by Phase. The cost of rights of way and easements as may be required shall also be included. The estimate of costs will be subject to review and approval of the Authority Engineer.
6. Engineer's Reports: The Engineer's Report shall include, but not be limited to, all information required by the New Jersey Department of Environmental Protection and any other regulatory agencies. It shall also set forth the basis of design.
7. Fire Protection: All water mains shall be designed to carry the peak hour flows, and where fire protection is provided, the required fire demand plus the required domestic demand as per the Residential Site Improvements Standards for residential and the noted requirements for non-residential standards.
8. Proof of Title & Environmental Certification: A copy of a title report, title policy or attorney certificate, establishing that no part of the system is encumbered so as to prevent, unduly restrict, or circumscribe the ability of the applicant to make all conveyances, transfers and dedications incidental to vesting in the Authority, title to the entire system and its appurtenances together with copies of all proposed documents to effect such conveyances, transfers and dedications. Unless otherwise determined, any improvement installed by a private Builder/Developer on the project's property will remain under the ownership of the applicant.
9. Phase I Environmental Assessment/Certification: A Phase I Environmental Assessment and/or Certification shall be provided for property to be conveyed to the Authority.
10. Application to New Jersey Department of Environmental Protection (NJDEP): Any local approval is subject to approval by the NJDEP. When warranted and

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APPLICATIONS TO THE AUTHORITY

as a condition of final approval, the applicant shall submit an application to the New Jersey Department of Environmental Protection.

11. Application to Atlantic County Utilities Authority (ACUA): The Authority's wastewater is ultimately treated at the Atlantic County Utilities Authority facilities in Atlantic City. Any local approval is subject to approval by the ACUA. When warranted and as a condition of final approval, the applicant shall submit an appropriate application/form to the Atlantic County Utilities Authority for approval.

SECTION 6: CONSTRUCTION PHASE – WATER AND/OR SEWER SYSTEM IMPROVEMENTS

6.0 CONDITIONS OF BUILDING PERMIT ISSUANCE: Prior to the issuance of a building permit, the Authority shall verify the following:

- 6.0.1 The Project or application received final approval.
- 6.0.2 All outstanding fees (i.e., review, lateral, allocation, inspection escrow, meter, etc.) are paid or current
- 6.0.3 Project performance guarantees are approved and in place.

6.1 APPROVAL & PERMITTING BY STATE AGENCIES AND OTHERS

- 6.1.1 Prior to construction and where applicable, the Applicant shall obtain all necessary approvals and permits from all applicable agencies.
- 6.1.2 All required approvals and permits shall be filed with the Authority.

6.2 PERFORMANCE GUARANTEE: A performance guarantee, in a form approved by the Authority, shall be posted in an amount equal to 100% of the total construction cost as defined in “Estimate of Costs”. The performance guarantee shall guarantee that said construction will be in accordance with the Authority’s approval(s).

6.3 INSPECTION REQUIREMENTS

6.3.1 Inspection Fees: The applicant shall deposit funds into an escrow account with the Authority for the purpose of paying for inspections of the work. The initial deposit shall equal 5% of the approved construction cost estimate(s). The escrow deposit must be made prior to the applicant commencing construction. For large projects, the escrow deposits may be remitted in phases at the discretion of the Authority.

6.3.2 Inspection of Water and Sewer Systems During the Course of Construction

1. All construction of water and sewer systems shall comply with the approved plans and specifications and shall be subject to construction review or inspection by the Authority or its authorized representative. The applicant shall provide the Authority or its authorized representative at least two (2) business days of notice prior to commencing construction.
2. In the event of noncompliance, the Authority or its authorized representative may direct or order discontinuance of construction.
3. No water or sewer service connections shall be made to a main, whether pressure tested or not, without an inspection by the Authority or its representative.
4. All water services shall be brought to main pressure and visually inspected for leaks by Authority representative prior to backfilling.
5. Permission to remove a sewer bulkhead or plug will not be granted until each section of the sewer has been cleaned and flushed in a manner acceptable to the Authority or its authorized representative.

SECTION 6: CONSTRUCTION PHASE – WATER AND/OR SEWER SYSTEM IMPROVEMENTS

6.3.3 Notice of Underground Utilities: “Before performing any work, the Applicant’s Contractor shall contact New Jersey One Call’ (811 or (800) 272-1000 for a mark-out of all underground utilities. It is the responsibility of the Contractor to contact New Jersey One Call and to ascertain the location of all underground construction in the area of the project.”

6.3.4 Leakage and Testing

1. General: The contractor shall furnish all labor, material and equipment necessary for the testing. Preliminary pressure and leakage tests shall be performed by the applicant to ensure a successful final acceptance test which will be made under the inspection of the Authority having jurisdiction. No work shall be closed or covered up until it has been duly inspected and approved. Should uncompleted or unproved work be covered, the applicant shall uncover all such work for inspection and approval. Work found to be defective, unsatisfactory, and not in accord with the approved Plans and Specifications shall be repaired or replaced and re-inspected.

2. Water System Testing

- a. Prior to performing a pressure test, all air shall be vented from the main and the pipe shall filled and remain filled with water for a period of at least 12 hours. After absorption is complete, the main and appurtenances shall be pressure-tested for a period of one hour under a pressure equal to twice the maximum possible pressure in each pressure zone but in any case not less than 150 psi.
- b. A leak test shall be conducted after the satisfactory completion of a pressure test.
- c. The duration of each leak test shall be two (2) hours. During the test period, the main shall be subjected to a pressure equal to twice the maximum possible pressure in the pressure zone, but in any case not less than 150 psi, and shall not be permitted to fall more than 5 psi within the 2-hour test period.
- d. Leakage is defined as that quantity of water to be supplied into the newly laid main, or any valved section thereof, necessary to maintain the specified leakage pressure after the pipe has been filled with water and the air expelled.
- e. No pipe installation will be approved until the leakage is less than the number of gallons per hour as determined by the following formula:

$$L = SD\sqrt{P} \div 148000, \text{ where}$$

L = allowable leakage in gallons per hour

S = length of pipe tested, in feet

P = Average test pressure during the test, in psi

D = Nominal diameter of pipe, in inches

- f. If leakage occurs greater than specified, all defective joints or pipes shall be located and repaired until the leakage is within the acceptable allowance.

SECTION 6: CONSTRUCTION PHASE – WATER AND/OR SEWER SYSTEM IMPROVEMENTS

3. Sewer System Testing

- a. All sewer mains shall be subjected to either an infiltration or exfiltration test. Exfiltration tests shall be conducted in lieu of infiltration tests when the pipe has been laid above the ground water level. The tests shall be performed between two manholes or as otherwise directed by the Authority or its authorized representative and shall include all related sewerage facilities including any lateral connections. At the discretion of the Authority, leakage detection by an air test method may be specified. The contractor shall furnish all labor, material and equipment necessary for the testing.
- b. Exfiltration tests shall be under at least five foot head or a pressure corresponding to a head equal to the depth of the lower manhole of the section under test.
- c. Allowable infiltration or exfiltration shall not exceed a rate of 50 gallons per mile, per inch of diameter of sewer per 24 hours. Any pipe, joint or other part of the sewer constructed found to show either infiltration or exfiltration in excess of the permissible limit shall be repaired, or removed and replaced, before proceeding with construction.

6.3.5. Disinfection

1. Before being placed in service, all water mains, appurtenances, pipe, treatment units and storage tanks shall be disinfected. The mains and tanks shall first be thoroughly flushed to remove all dirt and foreign matter and then filled with water containing a dosage of 50 ppm of chlorine. The chlorinated water shall be retained in the mains and tanks for at least 12 hours after which the mains and tanks shall be flushed. The Applicant may, at his option, chlorinate storage tanks by spraying all interior surfaces with a solution containing 500 ppm concentration of chlorine.
2. A solution of not less than one percent of the tank capacity shall be prepared at this concentration and sprayed on all surfaces. The tank shall then stand with drain closed for at least 12 hours. When the required time has elapsed, the tank shall be drained and flushed with water.
3. After flushing, the system shall be filled with water and a bacterial analysis shall be performed by a New Jersey certified laboratory. If the analysis indicates an absence of bacteria, then the mains can be placed into service. If bacteria are present, the Contractor shall perform the disinfection process again and re-sample.
4. No existing isolation valves on the HTMUA Distribution System shall be operated without HTMUA personnel being present on-site.

SECTION 6: CONSTRUCTION PHASE – WATER AND/OR SEWER SYSTEM IMPROVEMENTS

6.4 USE OF THE WATER AND SEWER SYSTEM

6.4.1 Use of the Water and Sewer System by the Authority: During construction and before final acceptance, the Authority shall have the right to use any portion completed without waiving their right to order correction of any defects.

6.4.2 Illegal Use of System

1. Water System: Use of the active portion of the water system for construction, flushing of sewers, and the like is strictly prohibited without the expressed permission of the Authority. Any other use not specified herein which the Authority determines “Illegal Use of System,” is strictly prohibited, and is subject to penalty and/or fine as may be prescribed by law.
2. Sewer System: Use of the system for the discharge of sump pumps, or drainage from cellar drains, leaders, downspouts, drainage tile, cellar pits or pumping out septic tanks or septic tank trucks and any other use not included herein which the Authority determines “Illegal Use of System,” is strictly prohibited, and is subject to penalty and/or fines as may be prescribed by law.

SECTION 7 POST CONSTRUCTION PHASE

7.0 ACCEPTANCE OF INFRASTRUCTURE BY THE AUTHORITY

After construction of all approved infrastructure has been completed, the applicant shall:

1. Certify that the construction of the infrastructure was completed in accordance with the approved plans and specifications.
2. Record and convey title, by metes and bounds description, all lands, easements and improvements not previously recorded and transferred to the Authority.
3. Provide Affidavits of Title for land, easements and equipment, and a recitation thereon that everything conveyed to the Authority has been paid for in full. A corporate resolution authorizing said transfers shall be included if applicable.
4. Submit digital and paper documents of filed and recorded subdivision maps, which shall show all easements.
5. Submit digital and paper surveys for plant or pump station sites and easements.
6. Submit Bills of Sale for all conveyed equipment and mains, which shall include applicable manufacturer warranties.
7. Provide releases from the following: Suppliers, Contractors, Subcontractors, Laborers and Lending Institutions.
8. Submit digital and paper “record” information as per Authority requirements.
9. Post a maintenance guarantee in a form approved by the Authority’s Solicitor equal to 15% of the Performance guarantee. The maintenance guarantee, guaranteeing the satisfactory performance and functioning of the infrastructure, shall remain in place for a minimum of two (2) years.
10. Complete and submit all required forms regarding regulatory approvals to be executed by the Authority and submitted.

7.1 RECORD INFORMATION

7.1.1 General: After construction and before final acceptance, the applicant shall submit digital record information to the Authority for review and acceptance. The record information shall include all of the items listed below as well as block and lot designations, street names and north arrow. The record information shall be in accordance with NAVD 83 for horizontal references and NAVD 88 for vertical references. Horizontal coordinates shall be survey grade. Upon final acceptance of the record information, the applicant shall submit a digital record of same to the Authority.

7.1.2 Required Plan Items

1. Sanitary Sewer System

- a. Provide manhole rim and pipe inverts and horizontal coordinates for each manhole.
- b. Provide material information and length of pipe between each manhole with as-built slopes.
- c. Provide location information (inverts and horizontal coordinates) for laterals and cleanouts along with distance to downstream manhole.
- d. Provide the date of installation and the name of the company who performed the installation

2. Water Distribution System

- a. Provide the geographic coordinates for all mains, hydrants, bends, tees, valves, reducers, taps, curb boxes, meter pits, laterals, etc.
- b. Provide material information for all mains, hydrants bends, reducers, tees, valves, taps, curb boxes, meter pits, etc.

SECTION 7 POST CONSTRUCTION PHASE

- c. Provide the date of installation and the name of the company who performed the installation
- d. Note the classification of the water main piping (e.g., Class 52 CLDIP).
- 3. Pump Station/Wells/Towers (When facility is to be dedicated to Authority)
 - a. All shop drawings, vendor cuts, manuals and as-built plans.
 - b. Operations and Maintenance manuals (digital and hardcopy).

7.2 CONDITIONS REGARDING ISSUANCE OF CERTIFICATE OF OCCUPANCY

Upon the satisfaction of all final approval issues and approved construction requirements, the Authority will not object to the Construction Code Office issuing a permanent certificate of occupancy.

SECTION 8

RULES AND REGULATIONS FOR WATER SERVICE

8.0 DEFINITION

A water service connection shall be defined as the service lateral pipe and appurtenances between the Authority's water main and the owner/customer's property line.

8.1 AUTHORITY RESPONSIBILITY

8.1.1 Service Laterals: The Authority shall be responsible for and will maintain service laterals from the water main, within a public Right-of-Way (ROW), to the customer's shut-off valve (i.e., curb stop and box). The shut-off valve shall be placed inside the curb line or at the edge of the road where no curb exists.

8.1.2 Meters: The Authority will own and has the right to access any meter associated with the customer's account.

8.2 PROPERTY OWNER'S RESPONSIBILITY

8.2.1 General

1. Water Laterals: The water pipe from the shut-off valve within the public ROW to the point of service.
2. The maintenance and/or repair of the water lateral, meter pit and appurtenances between the building and the Authority's shut-off valve.

8.2.2 New Construction

1. The applicant is responsible for all of the costs incurred to install a service lateral (including metering costs, installation, restoration, etc.). The owner shall provide advance notice to the Authority prior to installing an approved service lateral. Work involving the tapping of the water main; attaching the service lateral to the water main; the installation of the water lateral to the shut-off valve; and the installation of the shut-off valve shall be performed by a New Jersey Licensed Plumber and/or New Jersey certified public works contractor.
2. A maintenance guarantee against any defects in material and workmanship shall remain in effect for a period of two (2) years after acceptance of the work by the Authority.
3. Road opening permits shall be obtained by the applicant from the applicable agency at the applicant's expense.
4. The depth of the service lateral shall be between 36 and 48 inches. Shut-off valves shall **not** be located in driveways unless approved in advance by the Authority. The Authority shall inspect the service, service pipe, corporation cock, and curb stop prior to any backfilling; otherwise water service may not be provided.

8.2.3 Abandonment/Demolition

In the event of an abandonment or demolition, the Authority shall be notified in writing 10-calendar days in advance thereof in order to shut off service and remove the meter.

8.3 SIZE AND KIND OF SERVICE LINE

The Authority reserves the right to determine the size and kind of service lateral for the property to be served.

8.4 SEPARATE TRENCH

Service laterals shall not be installed in the same trench as natural gas services, drain piping, other utilities, or within three feet of any vault, cesspool or septic tank. The service lateral shall not be in conflict with any sidewalk or driveway. All services shall comply with the Rules and Regulations of the New Jersey Department of Environmental Protection.

8.5 RENEWAL OF SERVICE LINES

8.5.1 When required, the renewal of the service lateral from the main to the shut-off valve will be renewed in the same location by the Authority.

8.5.2 If the owner or customer desires the service line to be in a different location, the owner/customer shall be responsible for the relocation.

8.6 MAINTENANCE BY OWNER/CUSTOMER

8.6.1 All connections, service lines and fixtures located from the shut-off valve within the public ROW to the point of service shall be the responsibility of the owner/customer and shall be maintained in good working order.

8.6.2 The owner/customer shall immediately repair all leaks in the service or any other pipe or fixture in or upon the premises. The Authority will provide a 48-hour notice to correct/repair any leak/break deemed to be minor in the opinion of the Authority. In the event the water loss is not metered, the Authority may install a meter at the end of the maximum 48 hour repair period and bill the owner/customer accordingly.

8.6.3 For any service break/leak that is deemed to be creating a major water loss by the Authority, the following action will be implemented:

1. The private owner/customer must immediately initiate repairs upon notice from the Authority.
2. The Authority will terminate service at the curb line until the repairs are properly completed in a manner acceptable to the Authority.

8.6.4 The Authority reserves the right to calculate the water loss in the event said loss was not metered and assess the owner/customer accordingly.

8.7 AUTHORITY NOT RESPONSIBLE

The Authority shall in no event be responsible for maintaining any portion of the service owned by the owner/customer or for any damage caused by same.

8.8 PROPERTY SUPPLIED BY SINGLE SERVICE LATERAL

A service lateral from the shut-off valve (i.e., curb stop) and/or a meter pit shall not supply more than one property as generally described and classified below. A property, upon proper application by the owner, may be supplied by two or more meters, each of which, for billing purposes, shall be considered as being one customer account, and provided that the supply to each such meter has an individual control at or near the curb line.

1. A single residential unit, either detached or one side of a double (twin) residential unit, or a residential unit within a row of residential units. A garage, a conservatory and/or similar structures accessory to one residential unit shall be considered as a portion of the residential unit.
2. Any industrial, commercial, or manufacturing establishments.
3. A building separated from adjacent buildings by a party wall or party walls and comprising apartments or stores or offices or condominium townhouses or any combination thereof.

4. A detached building comprising apartments or stores or offices or any combination thereof.

8.9 SINGLE SERVICE LINE WITH TWO OR MORE OWNERS/CUSTOMERS

If any violation of the Authority's rules occurs with respect to either or any of the owners/customers, the Authority shall deem it a violation to all unless said violation is corrected after reasonable notice. Prior to taking any action as a result of any violation, the Authority will allow an owner/customer who has not participated in the violation a reasonable opportunity to attach their service lateral to a separately controlled service connection.

8.10 WATER MAIN OR SERVICE LATERAL CROSSING WITHIN HAMILTON TOWNSHIP, ATLANTIC COUNTY, AND NJ STATE ROADWAYS

8.10.1 Prior to the installation of water services or mains within a public roadway, a proper street opening permit(s) shall be obtained by the applicant from Hamilton Township, County of Atlantic and/or the State of New Jersey. The conditions outlined in the approved permit(s) will be considered as part of the Authority's approved conditions.

8.10.2 The installation of borings will require the approval and inspection of the Engineer.

8.11 BULK WATER USE APPLICATION

8.11.1 When a temporary, limited duration, supply of water is required for construction or other special purposes must be specially applied for and fees paid as specified in the Schedule of Rates. All applications for water for construction purposes must be signed by the owner or his duly authorized agent, and shall be interpreted to mean that the water is to be used from a hydrant temporarily adapted with a meter.

8.11.2 In lieu of metering, the Authority may allow an applicant to estimate the proposed water usage.

8.11.3 Applicable charges are in accordance with the current Schedule of Rates.

8.11.3 Where estimates are unavailable, a minimum charge as set forth in the Schedule of Rates shall be assessed.

8.11.4 Customers seeking to fill swimming pools must seek permission from the Authority. If approved, the Authority will designate the time, method and the hydrant location to be used. A labor charge as set forth in the Schedule of Rates will cover hydrant turn-on, monitoring, and turn-off by an Authority employee. The water consumption will be in accordance with the current Schedule of Rates.

8.11.5 Any abuse of the privilege or under estimation will result in the immediate revocation of the temporary use privilege.

8.11.6 Bulk water use will not be permitted on a lot or premises already supplied with a metered water connection,

8.12 WATER METERS

8.12.1 Each water service from curb stop, or meter pit, to a point of service shall be metered.

8.12.2 The Authority reserves the right to determine the size and location of the meter and to determine whether certain types of uses, such as high density residential uses, shall be individually metered or master-metered. The meters shall be installed at an accessible location, which shall easily allow access for the reading, repair or replacement of the meter.

SECTION 8

RULES AND REGULATIONS FOR WATER SERVICE

8.12.3 The Authority shall own all meters. Authority personnel will install all meters up to 2" unless otherwise authorized by the Authority.

8.12.2 Type of Metering System

A meter compatible to the Authority's automatic reading system shall be installed.

8.12.3 Water Meter Purchase and/or Payment

1. For individual applicants/customers with services up to 1-inch, the water meter shall be furnished by the Authority upon payment of the cost of meter, meter pit and appurtenances. The water meter, meter pit and appurtenances may be installed by Authority personnel or under the supervision of the Authority personnel. For meters greater than 1-inch, the applicant/owner shall be responsible for the purchase and installation of an Authority approved meter, meter pit and appurtenances.
2. Builder/Developers shall be responsible for the purchase and acquisition of the Authority's specified meter, meter pit and appurtenances. The water meter, meter pit and appurtenances shall be installed by the Builder/Developer under the supervision of the Authority and in conformance with approved plans and specifications.
3. Meters must be purchased from an authorized meter dealer.
4. In any case, the meter(s) shall remain the property of the Authority and shall be accessible at all times. The Authority shall retain control of same.

8.12.4 Location

Unless the Authority determines otherwise, all water meters shall be installed in Authority approved water meter pits located past the curb line but inside the public right-of-way. Meter location shall be as per approved plans and/or specifications or as directed by Authority.

8.12.5 Valves Required

If the water meter cannot be installed in a water meter pit, ball valves (or Authority approved equals) shall be installed on the inlet and outlet sides of the water meter by the applicant/owner. If a meter is installed in service line larger than 1-inch, the Authority may require the installation of gate valves and/or a meter by-pass by the applicant/owner.

8.12.6 Responsibility for Damage

1. Inside Meter Installation: The customer shall be responsible for damage resulting from freezing, hot water, or external causes due to the negligence of the customer.
2. Outside Meter Installation: The customer shall be responsible for damage resulting from external causes or customer negligence.

8.12.7 Minimum Charge

Each account is subject to a fixed minimum charge in accordance with the adopted rate schedule, which may or may not include certain quantities of water without additional charge. The minimum charge shall be non-abatable for non-users of water, and non-cumulative against subsequent consumption. In the case of a fractional bill, the minimum charge shall be pro-rated.

SECTION 8

RULES AND REGULATIONS FOR WATER SERVICE

8.12.8 Authority to be Notified When Meter Not Working

The owner/customer shall immediately notify the Authority of a non-working or damaged meter.

8.12.9 Meter Registration

The quantity of water recorded by the water meter's register shall be binding on both the owner/customer and the Authority, except when the meter has been found to be registering inaccurately or has ceased to register. In such cases, the quantity of water utilized may be determined by the owner/customer's average usage when the meter was in proper working order.

8.12.11 Disputed Account

In the event of a disputed account involving the accuracy of a meter, the meter will be tested upon the request of the customer in conformity with the provisions of these Rules and Regulations. If a tested meter is found to have an error in registration of four percent or more, the bills will be increased or decreased correspondingly.

8.12.12 Request Test

1. The Authority shall, upon a written request of an owner/customer, perform an accuracy test on their meter. If the meter is found to be accurate (less than or equal to plus or minus four (4) percent), a testing fee determined from the Schedule of Rates shall be paid to the Authority by the owner/customer requesting the test. If the meter is found to be inaccurate, then the cost of the test shall be borne by the Authority. The owner/customer shall be informed of the testing and payment parameters and agree to same prior to the performance of the test.
2. A test report shall be provided to the owner/customer and a record shall be kept by the Authority for one year.

8.12.13 Stopped Water Meters

When a stopped water meter is discovered, a review of the prior year's billing for the same period will be used to calculate an estimated bill.

8.13 PUBLIC FIRE SERVICE

8.13.1 Hydrant Location

Fire hydrants will be installed in accordance with approved plans subject to a written approval from the duly authorized official(s) of the municipality.

8.13.2 Maintenance

1. Public Fire Hydrants: Public fire hydrants shall be maintained and serviced by the Authority.
2. Private Fire Hydrants: Private fire hydrants shall be maintained and serviced by the owner of the property where the fire hydrants are located.

8.13.3 Allowable Uses

Only persons or entities authorized by the Authority shall take water from any public fire hydrant. Public fire hydrant shall not be used for sprinkling streets, flushing sewers or gutters, or for any use without the written approval and consent of the Authority. Failure to obtain the Authority's approval may result in a theft of services charge and/or a penalty as stipulated in the Authority's Schedule of Rates.

8.13.4 Change of Location

Whenever the Fire Commissioner requests a change in the location of any public fire hydrant, the Authority will relocate the hydrant at the Township's expense.

8.13.5 Inspection

Upon a written request from the Township's Fire Marshall, the Authority will perform an inspection of the public fire hydrants within a reasonable time.

8.14 PRIVATE FIRE SERVICE**8.14.1 Automatic Devices and Hydrants**

Automatic sprinklers or other automatic fire service devices located inside of a building or buildings shall have a separate service line. The applicant may request to have the fire service main serve as the source for domestic water consumption. Fire hydrants located outside of the building may be connected to the fire service line. Each separate service line shall be subject to the charges shown in the rate schedule. The Authority reserves the right to reject an application for an automatic fire service where, in the judgment of the Authority, such service is not practical.

8.14.2 Hydrant Ownership and Location

Hydrants installed on private property shall remain under the ownership of the Developer/Property owner unless otherwise determined during the approval process. Private hydrants shall be maintained in an acceptable working order and shall be serviced by the Owner. The Owner should flush the private hydrants in conjunction with the HTMUA flushing schedule and periodically perform hydrant flow tests.

8.14.3 Private Fire Service Lines

1. Private fire service lines may be installed upon approval of the Authority. The fire service line shall be installed at the owner/applicant's expense and shall be subject to the charges outlined in the Authority's Schedule of Rates.
2. All fire service lines shall be installed with approved detector check valves and an approved by-pass if required.
3. If the owner/customer violates any rules relating to the fire service lines, the Authority may demand the installation of a compound meter in place of the detector check valves at no cost to the Authority.
4. If applicable, metered fire service lines shall be approved by the Authority with owner/applicant responsible for all equipment and installation costs. The meter will be set in an approved type of brick or concrete masonry meter vaults, adequately drained, located on the premises of the customer. The meter vaults are to be constructed and maintained at the expense of the customer. Meters and meter vaults shall be accessible to the Authority at all times.

9.0 DEFINITION

Sewer Service Connection: The sewer service connection shall be defined as the service lateral pipe and appurtenances between the Authority's sewer main and the curb line.

Curb Line: The curb line is defined as an actual curb at the edge of a public road; the edge of road in the absence of a curb; or the owner/customer's property line, whichever is shorter.

9.1 AUTHORITY RESPONSIBILITY

9.1.1 General: The Authority will maintain all service laterals as noted in Paragraph 9.0 above. A clean-out shall be placed on the owner/customer's side of the curb line to allow access to the Authority's section of the service lateral. In the event of a blockage or stoppage, the Authority will respond to service calls and attempt to clear the service lateral from the curb line clean-out. The owner/customer is responsible for issues occurring beyond the curb line.

9.1.2 Plastic Curb Vents: Upon responding to a service call with a plastic sewer clean-out and/or a p-trap at the bottom of the clean-out (versus a cast iron trap), the Authority will notify the owner/customer of the risk of breaking the bottom of the plastic clean-out and/or have something become lodged in the p-trap. The owner/customer will be given three choices in this type of situation:

1. Authorize the Authority personnel to perform the service while acknowledging the aforesaid risk.
2. Authorize the Authority personnel to use an electric rodding machine at a cost established in the Authority's Schedule of Rates while acknowledging the aforesaid risk.
3. Secure the services of a private plumber.

The owner/customer shall execute a form indicating the option they wish to proceed with and acknowledging that the Authority is not responsible for any damages to the owner/customer's portion of the service lateral.

9.2 PROPERTY OWNER'S RESPONSIBILITY

9.2.1 General: The portion of a sewer lateral from the curb line to a point of service (i.e., building) is under the jurisdiction of the Township Construction Code Office. The service lateral must be approved by the Construction Code Office before the Authority will permit usage of the facility.

9.2.2 New Construction

1. A new connection to an existing sewer main will be at the expense of the applicant. At the Authority's option, the Authority may elect to install the service lateral from the sewer main to the curb line and charge the applicant appropriately. Otherwise it will be the applicant's responsibility to install a complete service lateral (tap at sewer main to point of service). The Authority will inspect the installation of the service lateral from the tap to the curb vent. The Township Construction Code Office will inspect the remainder. Any work performed on the service lateral between the main and the curb line shall be performed by a New Jersey Licensed plumber or certified public works contractor.
2. A maintenance guarantee against any defects in material and workmanship shall remain in effect for a period of two (2) years after acceptance of the work by the Authority.
3. Road opening permits shall be obtained by the applicant from the applicable agency at the applicant's expense.

4. Connection to existing sanitary sewers, unless otherwise approved by the Authority, shall be made with saddles or cut-in of wyes on asbestos cement pipe. Under no conditions will taps be permitted to project inside the main. Where the size of the connections is in excess of 6-inches, the connection shall be made with a manhole.
 5. No plumber or any other person shall perform any work on any sewer or connection without the consent of the Authority or its authorized representative, otherwise the plumber or other persons performing the work shall not be paid for any expenses incurred in performing the work nor shall the owner be reimbursed for any expense paid the plumber or any other person in connection with any work performed between the curb and the main. The plumber or other person, prior to commencing any work on the connection between the main and the curb, shall submit a written request for inspection by the Authority. Service laterals less than 4-inches in diameter are **not** permitted.
- 9.2.3 **Demolition:** In the event of an abandonment or demolition, the Authority shall be notified in writing 10-calendar days in advance thereof in order to shut off service.

9.3 SIZE AND KIND OF SERVICE LATERAL

- 9.3.1 The Authority reserves the right to determine the size and kind of service lateral from the main to the curb line. All laterals shall be constructed in accordance with the design requirement noted in the Authority's standard details or as per Authority approved design documents.
- 9.3.2 The service lateral from the curb line to the point of connection to the main shall be laid in a straight line and where possible shall be a minimum of least four feet below final grade.
- 9.3.3 The portion of the service lateral and sewer vent installed and maintained by the owner shall be installed in accordance with the Township Plumbing Code and shall be inspected and approved by the Township Construction Code Official prior to backfilling the trench. The Authority requires the installation of a "sweep tee" at the bottom of the clean-out/sewer vent to facilitate cleaning and inspection.
- 9.3.4 Any construction not approved shall be immediately removed and reconstructed in an approved manner.

9.4 SEPARATE TRENCH

No service lateral shall be installed in the same trench as a natural gas service; drain piping; water piping; other utility services; within three feet of any open excavation, vault, meter pit; or be in conflict with any sidewalk or driveway. All services shall comply with the latest rules and regulations of the New Jersey Department of Environmental Protection.

9.5 RENEWAL OF SERVICE LINES

- 9.5.1 When the renewal of a service lateral from the main to the curb line is necessary, the Authority will install a new service lateral of the same size and in the same location.
- 9.5.2 If an owner/customer desires the new service lateral to be in a different location, the owner/customer shall agree in writing to be responsible for the following:
1. Any costs in excess of the standard service lateral being replaced;
 2. The cutting and capping of the old service lateral.

9.6 MAINTENANCE BY CUSTOMER

9.6.1 The service lateral and appurtenances, including clean-out(s) between the point of service and the curb line, shall be properly protected and maintained in good order by the owner.

9.6.2 Any necessary repairs to the service lateral from the curb line to the point of service shall be performed by the owner in an expeditious manner.

9.7 AUTHORITY NOT RESPONSIBLE

In no event shall the Authority be responsible for maintaining any portion of the service lateral owned by the owner/customer or for any damage caused by same.

9.8 PROPERTY SUPPLIED BY SINGLE SERVICE LINE

A service lateral shall not serve more than one property unless otherwise approved by the Authority. Each facility/building unit shall have its own sewer service lateral.

9.9 SINGLE SERVICE LINE WITH TWO OR MORE OWNERS/CUSTOMERS

Where two or more owners/customers are serviced by a single service lateral, any violation of the Authority's rules by either or any of said owners/customers shall be deemed a violation as to all. If the violation is not corrected within a reasonable time frame, the Authority may take action against all owners/customers after giving an owner/customer who has not violated the Authority's rules a reasonable opportunity to install a separate service lateral.

9.10 SEWER MAIN OR SERVICE LINE CROSSING IN HAMILTON TOWNSHIP, ATLANTIC COUNTY, AND NJ STATE ROADWAYS

Prior to the installation of sewer services or mains in any roadway located within the Township of Hamilton, the County of Atlantic and/or the State of New Jersey, the applicant/owner shall obtain a proper street opening permit(s). The conditions outlined in the approved permit(s) will be considered as part of the Authority's approved conditions.

9.11 PROHIBITED CONNECTIONS

Under no circumstances will any of the following items be connected to the sanitary sewers, either directly or indirectly:

1. Foundation underdrains
2. Rain conductor or downspout
3. Air conditioning equipment, except condensate from air conditioning units with a capacity less than 1½ tons.
4. Storm water inlets or catch basins;
5. Drains from an equipment or manufacturing process, except when specifically authorized under the provisions of these rules and regulations.

NOTE: Floor drain discharge must be approved by the Authority.

9.12 SPECIAL PRECAUTIONS IN WET GROUND

When the ground water level is normally located above the invert elevation of the proposed service lateral, water tight joints ("Tyton" joints, cast iron soil pipe with properly caulked joints or equals) shall be utilized in the construction of the service laterals. Where the bottom of the service lateral trench is soft and/or yields, the Authority reserves the right to have the service encased partially or totally in concrete. At the Authority's direction, the

junctions of two different types of pipe shall be constructed in concrete utilizing a concrete mix approved by the Authority.

9.13 INDUSTRIAL WASTE DISCHARGES

- 9.13.1 Industrial wastes may be discharged into the sanitary sewage system upon execution of a formal written agreement with the Authority and the approval of the Atlantic County Utilities Authority. The agreement will set out, in detail, the characteristics of the waste; the quantity and duration of the waste flow discharges; and any other specific conditions deemed applicable. No connection shall be made prior to execution of the agreement.
- 9.13.2 The Authority reserves the right to require preliminary treatment when the characteristics of the proposed industrial wastes dictate. Some of the characteristics which may dictate the need for preliminary treatment are as follows:
1. BOD in excess of 250 ppm.
 2. Suspended solids in excess of 250 ppm.
 3. Average daily flow greater than 2% of the treatment plant's rated capacity.
 4. Presence of arsenic, barium, cadmium, chloride, chromium, copper, cyanide, fluoride, iron, lead, magnesium, manganese, nickel, nitrate, sulfate, zinc or pH values outside the acceptable limits.
- 9.13.3 When preliminary treatment facilities are required, they shall be efficiently operated and maintained at all times by the owner.
- 9.13.4 The owner shall be responsible for maintaining a discharge effluent which conforms to the provisions established in their agreement with the Authority. If the agreement requires the owner to sample and analyze its discharge effluent, it shall be in accordance with the current edition of "Standard Methods for the Examination of Water, Sewage and Industrial Wastes.
- 9.13.5 The cost of preparing and submitting the sampling data to the Authority shall be borne by the owner. Likewise, the cost of sampling and analysis shall be borne by the owner even when it is conducted by the Authority, or its duly authorized representative.

9.14 PROHIBITED WASTES

Wastes containing the following substances or wastes possessing the characteristics listed below will not be accepted:

1. Any vapor or steam
2. Any fluids with temperature in excess of 150° F.
3. Any fluid wastes which contains in excess of 100 parts per million of fat, oil or grease, either vegetable or mineral.
4. Any volatile, explosive, or flammable substances such as benzene, gasoline, naphtha, fuel oil or similar substances.
5. Any solids or viscous matter which may cause any interference with the flow of sewage, such as ashes, cinder, concrete, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manure, hair or similar substances or wash water from equipment or trucks carrying such materials.
6. Any fluid wastes having a pH value less than 5.5 or in excess of 9.0 or possessing other properties capable of causing damage or hazard to sewers, structures, treatment process and equipment or operating personnel.

7. Any wastes containing toxic or poisonous substances in sufficient concentration to interfere with the sewage treatment process, to cause injury to animals or persons, or to create an unacceptable condition in the receiving streams.
8. Any noxious or malodorous gas or substance, which is capable of causing a public nuisance.

9.15 GREASE, OIL AND SAND SEPARATORS

- 9.15.1 If the Authority determines that an interceptor for grease, oil, sand or an oil reclamation device is required, the owner/customer shall install one or more at the owner/customer's expense. The units shall be properly maintained and operated in an efficient manner by the owner/customer. Units shall be constructed of impervious materials; capable of withstanding abrupt and extreme changes in temperature; watertight; and equipped with readily removable access covers. The access covers shall allow for quick access to perform both influent and effluent sampling.
- 9.15.2 The design of the units, along with pertinent sizing calculations signed and sealed by a New Jersey licensed Engineer or Plumber, shall be submitted to the Authority for review and approval prior to construction or installation. Units must be constructed entirely on the owner's property.
- 9.15.3 The owner/customer shall keep maintenance records on site for a period equal to two (2) years. The Authority reserves the right to inspect the units and maintenance records at any time.

9.16 PENALTY AND DISCONTINUANCE

- 9.16.1 In the event that an owner/customer fails to conform to these regulations or to the terms and conditions of their agreement with the Authority and causes damages of any sort to the Authority or its employees, the Authority shall determine the extent of the damage and bill the owner accordingly.
- 9.16.2 If the bill is not paid within five (5) business days from the date of the bill, legal action may be instituted to enforce collection and/or the Authority may resort to terminating the discharge connection (or termination water service) after giving 24-hour's notice.
- 9.16.3 The Authority reserves the right to cancel the agreement upon one year's written notice, in the event of repeated failure to comply with the terms of the agreement, or the Authority's Rules and Regulations.

9.17 INDUSTRIAL WASTE METERS

If the industrial discharger has its own water supply, the industrial discharger will be required to furnish, install and maintain an Authority approved flow meter to measure and record the discharge into the Authority's sewer system. The meter shall be readily accessible to Authority personnel.