### APPLICATION AND SPECIFICATIONS FOR WATER SERVICE

Date:	Parcel No.	Permit Number
_	(Permit expiration date sha	all be two years from date issued)

Towanda Municipal Authority\_\_\_\_\_ Date Paid \_\_\_\_\_

Application is hereby made for Water Service (to be rendered by attaching to Towanda Municipal Authority's Drinking Water System) to serve the property located at:

Each permit issued by the Towanda Municipal Authority for intent to connect to the water distribution system or repair/replace existing service shall hold an expiration period of (two years from the date of issuance). If work has failed to be started by the expiration date the money shall be returned to the individual whose name appears on said permit and the permit will be considered void. The permit can be renewed and shall remain current for another two year period providing the then current tap on/repair fee is paid.

The applicant agrees to abide by the established Ordinance and Regulations of Towanda Borough pertaining to water service and to the Rules and Regulations of the Towanda Municipal Authority now in force, or which may hereafter be enacted or adopted, for government and regulation of said Towanda Municipal Authority and Authority and to pay for service at the adopted rates of the Borough or any subsequent rates which may be adopted by the Borough.

The applicant further agrees to be responsible for all payments for water at the premises described above from the date service under this application is commenced until service is terminated by written notice.

The character and volume of the discharge is represented as follows, and owner agrees that discharge shall not exceed these limits without subsequent application to and approval by Towanda Municipal Authority:

New Connection Permit (\$1,100 tap on fee, per EDU)

Waterline Repair/Replacement Permit (\$50.00)

Service line Termination (50.00)

Fee waived Reason

Name of Owner (Please Print)	Signature of Property Owner
	Phone:
Approval Date	
Towanda Borough	Plumber:
rowanida Dorodyn	Address:
	Phone:
Department Representative	

# RULES AND REGULATIONS FOR WORK

### 1. GENERAL CONDITONS:

- 1. Upon approval of an application for water service and the payment of the required tapping fee, the Towanda Water System will tap the main, insert a corporation stop, install a service line to the curb, or if no curb, to the property line, and insert a curb stop with a box and stem, all of which shall be maintained by the Towanda Water System.
- 2. All service lines from the curb stop to the structure including the meter pit (and through the wall of the structure and housing facility for the meter) to be served shall be installed according to the Towanda Water System specifications by the prospective consumer, at his own expense.
- 3. Outside meter pits will be required to be installed at the property owners expense for all new construction, and/or during waterline repair/replacement,
- 4. Any line that is covered without being inspected will be required to be reexcavated at the owner's expense, without exception.
- 5. All service laterals from the meter pit to the structure being served shall be maintained by the property owner at their expense, as approved by the Authority. No water service lateral shall be laid in the same trench with gas, sewer, electrical, telephone lines, or any other facilities of a public service company, unless a minimum of 3' parallel, and/or a 1'crossover isolation distance can be provided. Before any excavation has begun it is the sole responsibility of the owner or owner's representative to make any and all arrangements to locate any utilities that may be in the path of excavation. The Authority will in no way be responsible for any damage caused to the Authority, or any other utility's line.
- 6. In a repair situation If any part of the existing water service line is found to be galvanized during excavation, The entire line MUST be replaced from the curb to the structure wall.

# 2. SAFETY:

• During any construction of Water Service or main line the contractor will be required to follow <u>All</u> Local, State, Federal (DEP, EPA and OSHA) rules and regulations including but not limited to the use of shoring, safety equipment, and the removal and disposal of Asbestos Cement pipe.

# 3. EXCAVATION:

- The trench shall be dug one (1) foot wide at a minimum and shall not be utilized for any other purpose, other than for the water service lateral, except as provided for and under the restrictions set forth in Paragraph No. 1 above. Use extreme caution when excavating near the meter pit. For safety and liability purposes hand dig within two (2) feet of the meter pit. The excavator assumes all liability when excavating near Authority property.
- Any open trenches within the Municipal right of way that will be left open at the end of a work day will be required to have barricades in place, Roadways will require the use of approved steel plating before the contractors leave the work site.

### 4. INSTALLATION:

- A separate connection service line from the main to the inside wall of the building will be required for each individual building or house whether constructed as a detached unit or as one of a pair or row homes. A single connection service line will be permitted to serve a school, factory and apartment houses or other permanent multiple unit structure whose individual apartments or units may not be subject to separate ownership.
- All pipe shall be laid in a straight grade avoiding summits and depressions which can collect sediment and air. The pipe shall be "snaked" in the trench to allow at least three (3) inches per one hundred (100) feet of length for thermal expansion and contraction of the pipe. Connection to the meter pit shall be via compression coupling, which is part of the meter pit assembly.
- Under no circumstances is the water service line to be installed within another pipe or conduit, unless prior Authority approval is obtained.

# ACCEPTABLE FITTINGS REQUIRED:

• When using plastic tubing, metal inserts (stainless steel or brass) must be used along with stainless steel clamps when joining two sections of tubing together. Brass compression fittings with stainless steel inserts are necessary when CTS tubing is used

# PIPE BEDDING:

- All service laterals 2" diameter and smaller shall be placed on a six (6) inch **builder or masonry sand** base and backfilled with sand to at least six (6) inches above top of pipe. This envelope of stone bedding and partial backfill shall be known as the "pipe zone." All pipe shall have a minimum of forty-eight (48) inches of cover to crown of pipe.
- All service laterals and connections (including fire lines) 4" diameter and larger shall be placed on a six (6) inch thick bed of 2A stone and backfilled with 2A stone to a point at least six (6) inches above the crown of the pipe. Full stone backfill shall be provided under all paved areas. Native backfill may be used in non-paved or nonstabilized areas with prior approval of the material by the Authority.

### PIPE MATERIAL & DIAMETER REQUIREMENTS:

- All service lines and connections 2" size and less shall be type "K" flexible copper or high-density polyethylene tubing (Copper Tubing Size (CTS), not Iron Pipe Size (IPS)), Type PE3408, SDR 9 200 with a pressure rating of 200 pounds per square inch, and meeting the requirements of ASTM D2737. All connections shall be compression type only utilizing Ford Grip Coupling Type C44 or equal, conforming to AWWA standards. Underground splicing should be avoided. In no case shall the service lateral contain a coupler at an interval less than one hundred (100) feet for copper, or three hundred (300) feet for polyethylene. **The use of hose type clamps or underground soldering is strictly forbidden.**
- Laterals placed through foundation walls or floors shall be protected, to prevent wear of the pipe surface due to vibration or thermal expansion. Copper to concrete contact shall be avoided. Laterals shall terminate inside the structure utilizing a brass gate or ball valve the same size as the service line pipe, and having female pipe threads to facilitate placement of the check valve assembly.
- All service lines and connections (including fire lines) 4" diameter and larger shall be Class 52 Ductile Iron pipe with a 235 psi pressure rating. All fittings including but not limited to valves, sleeves, tees, and caps shall be Ductile Iron Mechanical Joint and, in the case of directional changes of the pipe, be restrained with both Mega-lug Retainer Glands and Concrete Thrust Blocks. All construction must be inspected by the Towanda Municipal Authority or its designated agents prior to backfilling.
- Stainless steel curb stop stems are required during install.

# 5. BACKFILLING OF TRENCHES:

- <u>Trenches shall not be backfilled until the work has passed any testing, been</u> <u>inspected, and approved by the Towanda Municipal Authority Inspector</u>. All backfilling of trenches located on unpaved Municipal roadways shall be subject to the inspection and approval of the Inspector and shall be thoroughly compacted by tamping in layers of not more than 6 inches with a mechanical tamper. The upper 18 inches of the trench shall be backfilled with crushed stone, 2A or approved equal.
- <u>All paved streets are to be replaced as follows</u>: The trench, excluding the pipe zone, shall be backfilled with 2A sub-base or approved equal. The affected roadway shall be reconstructed as per attached drawing and all construction shall be executed and warranted as specified in the Road Occupancy Permit. In all cases the developer or property owner shall be responsible for all costs of replacing road material and pavement to the specified thickness and quality, and shall meet construction requirements of the Pennsylvania Department of Transportation and the permits and ordinances of the Municipality in which the trench is located.
- The person, firm or corporation procuring the permit shall properly maintain that portion of the backfilled trench located within the street right-of-way for a period of two (2) years from the date of acceptance by the Inspector. The permitee /contractor shall maintain adequate protection of pedestrian and vehicular traffic by the use of lighted barricades, guards, road plates, etc. during construction.
- When backfilling around a curb box, care must be taken to assure the curb box is resting on a solid concrete block. Several layers of duct tape are to be wrapped around the forks of the curb box, to lessen the likelihood of dirt rock and fine material from getting in and blocking the operation of the stop nut. The curb box shall be held straight to facilitate insertion of the curb box wrench, while assuring that the operating nut is in an upright position. The top of the curb box may be kept at a minimum so as to eliminate damage from mowing or snow removal. In no case shall either the curb box or meter pit lid be made inaccessible.
- Backfill material can be the material removed from the trench, with the exception that no rocks larger than six (6) inches may be included in the backfill or replaced in the trench, with the exception of the "pipe zone" requirements as noted above.
- Native backfill may be used in non-paved or non-stabilized areas with prior approval of the material by the Authority.

### 6. BACKFLOW PREVENTION, PRESSURE REDUCERS, BOOSTER PUMPING, SOFTENERS, AND FILTERS.

#### A. Backflow Prevention

- Backflow prevention is required on all connections and shall be at the property owners expense, for lines 3" and smaller, using a double check valve installed inside the structure, downstream of the isolation valve as described above, and be similar or equal to a Watts Series 007QT, and shall be the same diameter as the service lateral piping feeding the structure. For service lines 4" and larger, backflow prevention shall be accomplished by installing a double check valve, similar or equal to a Watts Series 709, of the same size as the service line, in an external meter pit or concrete vault.
- The Applicant at his own expense shall engage a third party to conduct tests on the backflow preventer using the test ports on the valve at a minimum of once per year, or on a more frequent basis if circumstances are deemed to be warranted by the Authority or its agents, to confirm proper valve function and assure the safety of the Authority system. The Applicant shall notify the Authority in advance of the testing agency, date and time of this testing, and shall provide written test results to the Authority, on forms provided by the third-party testing agency, within twenty-four (24) hours of the completion of the testing.
- Customers are advised that due to the presence of a check valve, the installation of expansion tanks and/or pressure reducing valves on the interior plumbing of the structure may be necessary in order for hot water heaters to continue functioning.

#### B. Pressure Reduction, Booster Pumps, Water Softeners, and Filters

Pressure throughout the system will range from 25 psi to 120 psi. Applicants whose existing dwelling or property is served by a private well or a jet pump, which is being replaced with the connection to the public water system as required by Authority regulations to provide water service to the interior of all structures, are advised that the public water system service pressure may vary significantly from the pressure that previously served the Applicant's dwelling or structure, Private wells are to be disconnected and abandoned, The abandonment will need to be inspected by an Authority Inspector for complaiance.

- A Pressure Reducing Valve is required in order to avoid over pressurizing the Applicant's existing interior plumbing. The pressure reducing valve shall be placed inside the structure to be served and downstream of the backflow prevention device. The Applicant shall install a pressure reducing valve, as manufactured by Watts Water Technologies, Inc., to match the service line size serving the Applicant's location. Other valve manufacturers must be approved by the Authority. The same shall be the case for water softeners, filters, and any other forms of water treatment or regulation.
- Applicants in higher elevations of the system may need booster pumping stations in order to provide adequate service pressures. Applicants are advised to contact the Authority for guidance on whether their service location will require a booster pump. Booster pump stations if required shall be installed downstream of the backflow prevention device and upstream of all other interior plumbing. Booster pump stations shall be Aquavar ABII Variable Speed Constant Pressure systems as manufactured by Goulds Pumps. Booster Pumps and all appurtenances shall be the property owners responsibility to purchase and maintain.

### **TEST PROCEEDURE (REQUIRED):**

### 6. INSPECTION OF WORK:

- The designated Towanda Municipal Authority Inspector shall determine the location of the connection to the Authority owned water main. Contractor will be responsible to make Connection on the property owners side of meter pit. Said contractor MUST be on the Authority's list of approved contractors. NO OTHER PERSONS SHALL BE ALLOWED TO CONSTRUCT SERVICE LINES, WITHIN THE MUNICIPALITY.
- Notification of intent to work, arrangements for determining location of the connection and inspection of completed work shall be made with the Inspector at least twenty-four (24) hours in advance. Work will be inspected between the hours of 7:00 A.M. and 3:00 P.M. No inspection of work will be scheduled on Saturday, Sunday or holidays.

Towanda Municipal Authority # 570-265-2696 ext. 101 or ext. 102

### 7. TERMINATION OF SERVICE LINES:

 Any water service lines entering the water main that are being terminated during construction for any reason are to be done so at the closest possible point to the water main, (meter pit or curb stop). Properly sealed fitting should be used to not allow and future water leakage. Exact location of termination to be determined by the Municipal Inspector.

I hereby agree that in the event the undersigned property owner or owners do not fulfill each of the above conditions, I hereby authorize the Towanda Municipal Authority to disconnect such water connection and retain the permit fee for the use of the Towanda Municipal Authority to reimburse the Towanda Municipal Authority for cost of said disconnection. This agreement is made to induce the Towanda Municipal Authority to permit this repair, replacement or installation work to be done.

TOWANDA BOROUGH TOWANDA MUNICIPAL AUTHORITY

BY:	
Authority Representative	Property Owner
	Property Owner
Constructed by: Address (Contractor):	
Inspector:	
Date of water service Inspection: REMARKS:	Date of Existing Well Disconnect: