

LOCAL LAW ESTABLISHING

THE WATER CODE

**OF THE
TOWN OF ELBA
GENESEE COUNTY
NEW YORK**

Enacted:

July 10, 2018

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 General Information	5
1.1 Establishment, General Information and Conditions of Service	5
1.2 Territory	5
1.3 Definitions	5
2.0 Application for Service; Tap-In Fee	6
2.1 Application for New Service	6
2.11 Application for New Service from Out of District	6
2.2 Application for Transfer of Existing Service	6
2.3 Connection	7
2.4 Homeowner's Insurance Requirements	7
2.5 Contractor's Requirements	7
2.6 Tap-In Fee	7
2.7 Agricultural Water Usage and Charges	7
3.0 Installation of Service	8
3.1 Inspection	8
3.2 Service Connections (Permanent)	8
3.3 Service Connections (Temporary)	9
3.4 Service Connections for Fire Protection Only	10
3.5 Service Connections for Hydrant Use	10
3.51 Irrigation Hydrant Use	10
3.52 Non-Irrigation Hydrant Use	10
3.6 Service Connections Requiring a Meter Pit	10
4.0 Meter Valves, Meters, and Backflow Preventers	11

4.1	Meter Valves	11
4.2	Meters	11
4.21	Necessity	11
4.22	Meter Fee	11
4.23	Maintenance	11
4.24	Inspection	11
4.25	Size	11
4.26	Meter Accuracy Disputes	11
4.3	Backflow Preventer Requirement	12
5.0	Termination of Services	13
5.1	Termination by the District	13
5.2	Termination by the Owner	13
5.21	Long-term Termination Requests	13
5.22	Short-term Termination Requests	13
6.0	Hydrants and Fire Regulations	14
6.1	Fire	14
6.2	Operation of Hydrants	14
6.3	Hydrant Location	14
6.4	Hydrant Access Requirement	14
6.5	Hydrant Access Enforcement	14
7.0	Payment for Water Service	15
7.1	Installation and Repair	15
A.	Expenses borne by District	15
B.	Expenses borne by Owner	15
7.2	Water Usage Charges	15
A.	Responsibility for Usage Charges	15
B.	Adding to Taxes	16

7.3	Special District Assessments	
A.	Indirect Benefit	16
B.	Direct Benefit	16
8.0	Main Extensions	16
8.1	Application for Extension by Taxpayer Petition	16
9.0	Supply of Water	16
9.1	General	16
9.2	Interconnectors	16
9.3	Shortage	17
10.0	Improvements	17
10.1	The Board may	17
11.0	Water Use Rates	17
12.0	Violations; Penalties for Offenses	17
12.1	Emergencies	17
12.2	Notification of Violation	18
12.3	Fines and Imprisonment	18
13.0	Effective	18
 <u>Appendices</u>		
Appendix A	Water Service Head Loss Chart	19
Appendix B	Water Service Details	20
Appendix C	Fee Schedule	21

SECTION 1.0 – GENERAL INFORMATION

1.1 Establishment, General Information, and Conditions of Service

- A. The Town of Elba hereby establishes the Water Code of the Town of Elba. This code is established for the purpose of regulating water usage in the Town, providing for payment for water usage, providing for and ensuring proper and safe water usage, and establishing rights and obligations of water users in the Town and to any out of district users.
- B. From time to time, water in the mains must be shut down due to repairs, leaks, maintenance, or other reasons. It is the intention of the Town, where practical, to notify owners when the water in the mains is to be shut off; however, it is often impractical and sometimes impossible to do so, and the Town shall not be obligated to provide such notice.
- C. Whenever the water is shut off for any reason, all hot water boilers should be immediately banked and water content checked often and thoroughly, by the Consumer.
- D. A five feet in depth minimum trench shall be maintained to avoid danger of freezing service pipes from the street to buildings. A waiver may be requested if unable to meet the 5' requirement depth. Particular care shall be exercised to maintain the minimum when crossing gutters, drainage ditches, or other like depressions.
- E. When property is conveyed, written notice shall be given to the Water Billing Clerk of said conveyance so that the transfer of ownership may be noted and the new owner notified of his accounts – final meter reading.
- F. Improvements to existing water services within the Town of Elba shall conform to the standards and regulations set forth in this law.

1.2 Territory

This law shall apply to all that area within the boundaries of the Town of Elba and also, to all users outside of the Town of Elba which are served by this system. Service outside the Districts shall be at the discretion of the Town Board.

1.3 Definitions

A. Terms used in this Code are defined as follows:

- 1. “Board” means the Town Board of the Town of Elba.
- 2. “Consumer” means the person, partnership or corporation or the entity to be served, or their agent.
- 3. “District” means the Town of Elba Water Districts.

4. "Irrigation" means the application of water to land for the production of farm crops only.
5. "Non-Irrigation" means drawing water from a hydrant for any purpose other than irrigation.
6. "Owner" means the person(s), partnership, corporation or other entity owing the property to be served, or their authorized agent. The Owner shall be a consumer even when there is another consumer such as a tenant or lessee.
7. "Water Superintendent" means the Superintendent of the Elba Water Districts, or his authorized representative or the person designated by the Board to oversee the operations of the District, or his authorized representative.
8. "Water Rental Charge" shall mean water usage charges; the charge for using water from the Water Districts.
9. "Water System" means the water distribution system and appurtenances of the Town of Elba.

SECTION 2.0 – APPLICATION FOR SERVICE; TAP-IN FEE

2.1 Application for New Service (available in Town Clerk's Office)

Application for new service shall be made by the owner in writing, on forms provided by the Water Superintendent. Such application shall be made not later than thirty (30) days prior to the beginning of service, and shall contain such information as the Water Superintendent may require or Zoning Regulations. The time for application may, at the discretion of the Water Superintendent, be waived.

The Board reserves the right to accept or reject any or all applications for services of a nature not consistent with this Code, including the right to determine the rates for such services and shall approve only those applications which it finds are in the best interests of the District.

2.11 Application for New Service from Out of District

The Board may accept or reject applications for service from out-of-district users, and shall determine rates for service. It will approve only those applications which it finds are in the best interests of the District. The Board shall, from time to time, by resolution of the Board, establish and amend the water use rates for Out-of-District users. These rates may be set higher than those for in-district users. The rate schedule shall be on file in the Town Clerk's Office.

2.2 Application for Transfer of Existing Service (available in Town Clerk's Office)

Application for transfer of an existing water service to a new owner shall be made by the new owner on forms provided by the Water Superintendent. Such application shall be made not later than thirty (30) days after the transfer and shall contain such information as the Water Superintendent may require.

At any time, whether or not, a written application for service has been received by the Water Superintendent, any owner and consumer shall be bound by the provisions of this Code.

The Board may accept or reject any or all applications for services of a nature not covered by this Code, including the right to determine the rates for such services and shall approve only those applications which it finds are in the best interests of the District.

2.3 Connection

No person, corporation, owner or consumer shall make any connection or opening into a public water main, except upon authorization of the Water Superintendent. All connections to water mains, including service line work and excavation within public rights-of-way, shall be done by the District or its authorized representatives, including all excavation around or near public water mains, unless the Water Superintendent authorizes or requires a duly license and insured contractor make such connections.

2.4 Homeowner's Insurance Requirements

Homeowner's who will be performing their own work must provide proof of homeowners insurance, as required, in the amount acceptable to the Town and shall name the Town of Elba as additional insured.

2.5 Contractor's Requirements

Contractors hired to perform the work must provide evidence of the existence of a performance bond, liability insurance and workman's compensation, as required, in the amount acceptable to the Town and shall name the Town of Elba as additional insured.

2.6 Tap-In Fee

Prior to connection to a public water supply for water service, the owner shall pay to the District a tap-in fee. Said fee shall be based on the materials and labor to accommodate the requested tap-in. The tap-in. The tap-in fee shall be paid directly to the District.

2.7 Agricultural Water Usage & Charges

1. For new service connections where the water will be used primarily for the purpose of supplying animal livestock, the number of equivalent dwelling units (EDUs) charged to the property shall be calculated using the total estimated daily water usage from the various types of livestock present at the facility at the time of the service request. The total water usage for each type of livestock is calculated by multiplying the number of head by the daily water consumption for the particular type of livestock at an air temperature of 50 degrees. The values contained in the 'Livestock Water Requirements', article from the July 2015 NDSU Extension Service paper were used to estimate daily water consumption for the various types of livestock.
2. To calculate the number of EDUs, the total estimated daily water usage is divided by 300 gpd (typical daily residential usage), then multiplied by 25% and then rounded to the nearest 0.5 EDU.

Sample Calculation:

#	Type	Consumption	Total
500	Lactating Dairy	30 gpd/head	15,000 gpd
50	Non-Lactating Dairy	11 gpd/head	550 gpd
30	Bred Heifers (5-12 mo.)	9 gpd/head	270 gpd
20	Calves (1-4 mo.)	2 gpd/head	<u>40 gpd</u>
			15,860 gpd

$$15,860 \text{ gpd} / 300 \text{ gpd} = 52.867 \times 25\% = 13.22 \Rightarrow \mathbf{13.0 \text{ EDU}}$$

A. Equivalent Dwelling Unit (EDU) Adjustments for Agricultural Facilities

1. The EDU charge for livestock facilities shall be adjusted if there is a significant change in water usage. A new EDU charge shall be determined based on the 3-year average of the actual water usage of the facility using the method described in Section 1102.E. Changes can be as a result of initial over/under estimating, the addition/subtraction of livestock or the change of use of the facility.

SECTION 3.0 – INSTALLATION OF SERVICE

3.1 Inspection

No water main shall be tapped nor any service connection made, or covered, except on authorization of the Water Superintendent after he has approved all work and materials.

No person, except the Water Superintendent, shall turn the water on or off at any connection to the water main. Water will be turned on by the Water Superintendent to test the pipes before they are covered and immediately turned off until final approval of the completed service installation by the Water Superintendent.

3.2 Service Connections (Permanent)

Taps and connections shall be one inch (1") and shall be carried full size from the water main to the meter, except that larger services will be permitted upon application made to the Water Superintendent, where need for such service is established and where water main size is adequate. Where larger than one inch (1") is required, the owner shall pay to the Town an installation fee, which will fully compensate the District for the cost of the larger service.

- C.2.a.** All service pipes must be of Type K copper material except that service pipes of a diameter of two inches or larger may be of ductile or cast-iron pipe of equivalent. A six-inch sand bed for the service pipe and six-inch sand cover or equivalent over the pipe are required, if deemed necessary by the water department. Exceptions in pipe material may be granted on an individual basis as determined by the water department.

Service pipe two inches (2") and smaller shall be Type K copper or virgin resin, ultrahigh molecular weight polyethylene tubing, meeting AWWA specification C901, and capable of sustaining indefinitely a pressure load of 200 PSI at room temperature (This material should be Type 3, Grade P33, Class C material as per AWWA). No underground joints will be permitted except where distances are greater than the lengths available from the manufacturer. In this case, a minimum number of joints will be permitted and these shall be of the flare compression type with copper tubing or push-on joint with PT-CTS Plastic Tubing or as otherwise designated by the Water Superintendent. Service pipe larger than 2" shall be of such material and installed in such manner as the Water Superintendent shall approve, and shall be of type, material and grade as is currently standard in the building industry. All pipe shall meet all requirements for a working pressure of 200 PSI. All service pipe shall be laid in a trench not less than five (5) feet below the surface of the earth. Metal tracer wire/tape to be included in all installations of service lines and accessible at the meter.

Service pipe will be laid by the District from the main to and including the curb stop and box. Owners of vacant lots must demonstrate by commencing construction that they intend to use water. No service will be laid to vacant lots, except as part of developer's work in an approved subdivision extending off of a trunk line installation by the developer. All lines installed, but not intended for immediate use, shall be capped and sealed until ready for immediate use by the consumer.

Permission will not be granted to supply more than one owner from a single tap unless approved by the Water Superintendent due to some extreme hardship. In such cases, a separate shut-off cock must be provided for each such building and, where necessary for access, a permanent easement must be granted to the Town by the owners.

For multiple residences in one structure, one meter will be installed for each unit or consumer up to two (2) units. For residences with more than two (2) units or consumers, the District reserves the right to install one master meter. The water usage will be charged to the real property owner. If multiple meters are requested by the real property owner, the District will not be responsible for the cost of the additional meters.

No installation shall be permitted which has connections, direct or indirect, with any public or private pumping and/or distribution system or source not fully approved by the New York State Water Resources Commission and by the New York State Department of Health.

3.3 Service Connections (Temporary)

Temporary service connections shall consists of, but shall not be limited to, connections to construction jobs, fairs, circuses, military installations, emergency inter-system connections and for service of water to a premises or property upon which no permanent structure is or has been erected or for a use not serviced from a permanent service.

Except as otherwise directed by the Water Superintendent, or as set forth herein, all requirements for permanent service shall apply to temporary service.

The request for temporary connections shall be made to the Water Superintendent no less than five (5) business days prior to the requested service date. The Water Superintendent may reject any application for service which he determines will not be in the best interests of the district or its customers.

3.4 Service Connections for Fire Protection Only (Sprinkler Systems)

A service may be installed to serve as a source for fire protection only. The Board shall establish from time to time, by resolution, the water usage rate and fee for a meter for fire protection. The schedule shall be on file in the Town Clerk's office.

3.5 Service Connections for Hydrant Use

Hydrant use, for purposes of either irrigation or non-irrigation, is considered a temporary service connection covered under the guidelines in section 3.3. No hydrant use is permitted during periods of hard freeze or when temperatures are below 35 degrees Fahrenheit.

No person shall open a hydrant for any reason unless he has obtained a permit from the Water Superintendent for a temporary service connection. This section shall not apply to volunteer fire companies when engaged in training or firefighting.

Any person desiring to draw water from a hydrant shall use an approved gate valve, meter and backflow device, which shall be furnished and installed only by District personnel. Meters shall be locked to hydrants by the District. If a customer requests that a meter be moved from one hydrant to another there will be a fee.

All hydrants must be in full-on position during operation and water flow controlled by a gate valve at the meter.

Any and all damage to hydrant, meter or backflow shall be the responsibility of the owner or consumer.

3.51 Irrigation Hydrant Use

Irrigation pertains **ONLY** to the application of water to land. All rules for hydrant use pertain to irrigation. Irrigation applications shall be reviewed timely on a case-by-case basis.

3.52 Non-Irrigation Hydrant Use

Non-Irrigation pertains to hydrant use for any purpose other than irrigation. All rules for hydrant use pertain to non-irrigation use.

3.6 Service Connections Requiring a Meter Pit

A water meter shall not be installed in a crawl space, under a kitchen sink, in a closet or in any location not approved by the Water Superintendent. If a building does not have a basement, or any structure located more than 150 feet from the road right-of-way, it requires a meter box to be installed at the right-of-way. All water services 1-1/2" and larger require a meter-in-vault installation regardless of distance from right-of-way. The meter must be installed in a District- approved meter pit. Refer to Appendix A Water Service Head Loss Chart for estimated pressure reduction for the length of service piping.

The owner shall pay to the District the Meter Pit Fee along with the Water Service Tapping Fee for new construction not included within a capital project at the time of water main installation.

SECTION 4.0 – METER VALVES, METERS, AND BACKFLOW PREVENTERS

4.1 Meter Valves

Meter valves are required on every installation and are the responsibility of the owner or consumer. When a meter is changed or repaired by District personnel on any service that does not have a properly functioning meter valve one may, at the discretion of the Water Superintendent, be installed by the District and the fee for such device shall be billed to the owner as part of the next water bill. Meter Valves will **ONLY** be installed when District personnel are on the premises for a meter change or repair. No special trips will be made for meter valve installation, as this is the owner's responsibility.

Meter valves shall be installed within 6" of the entry point of the water service line with no branch lines ahead of the water meter. Refer to Appendix B for Details W-1 and W-2.

4.2 Meters

4.21 Necessity

No water shall be drawn from the Town water system for any purpose unless metered in accordance with this Code. This provision shall not apply to volunteer fire companies while training or fighting fires using hydrants. Meters shall be signed for by the owner, or his duly authorized agent, for who premises the water is to be used.

4.22 Meter Fee

The Board shall establish by resolution, from time to time, the fee for each size of meter.

4.23 Maintenance

To the extent of ordinary wear and tear, all meters will be maintained by and at the expense of the District. The consumer must pay for any damage or replacement due to freezing, hot water, or other external causes.

4.24 Inspection

The Water Superintendent shall be entitled to inspect, test, clean, repair, remove and replace any meter at any time and to substitute another meter in its place.

4.25 Size

The Water Superintendent shall, subject to Board direction, determine the size, type and make of any and all meters employed within or without the District.

4.26 Meter Accuracy Disputes

In the case of a disputed account involving the question of accuracy of the meter, such meter will be tested by the District upon request of the consumer, once payment of a fee by the owner is received. In the event that the meter so tested is found to have a registration error in excess of acceptable limits, to the prejudice of the consumer, the fee advanced for testing will be refunded and the bill for the current period adjusted to correct such over registration.

4.3 Backflow Preventer Requirement

The District mandates New York State Department of Health rules followed for backflow prevention devices when required. The backflow prevention devices must be installed per the District's directive before installation is complete and water used, as follows:

- A. All Backflow Prevention Devices and Assemblies shall be approved by the current New York State and Genesee County Department of Health Standards.
- B. All backflow preventers shall be installed by a competent installer and inspected and approved by the Water Superintendent or other authorized District representative.
- C. Upon the transfer of real property or before the issuance of a certificate of occupancy, the owner thereof must submit to the Town Water Superintendent and Town Building Inspector verified proof that the backflow prevention device if required, as specified by this section (4.3), is installed.
- D. When a meter is changed or repaired by the District, any service that does not have the proper backflow prevention device installed shall have one installed by the District if the building's plumbing will accommodate it and the Water Superintendent determines to make such installation. Backflow devices will **ONLY** be installed when District personnel are on the premises for a meter change or repair. No special trips will be made for backflow device installation, as this is the owner's responsibility. The cost of such device shall be billed to the owner as part of the next water bill. If the District determines not to or is unable to install a backflow device due to the plumbing configuration, or if the owner chooses not to have District personnel install one, the property owner shall be required to have one installed by a competent installer at the owner's expense within 60 days. Upon installation, the owner shall notify the District and make the property available for inspection by District personnel as soon as possible.
- E. All Backflow Prevention Devices and Assemblies shall be installed in a manner which is adequately protected from freezing. If a Backflow Prevention Device or Assembly is not adequately protected from freezing temperatures and is to be used seasonally, will be subject to inspection by the Water Superintendent after each removal and prior to each reinstallation.
- F. Typical residential services will not require backflow prevention. Any use other than a residential water service:
 - 1. Up to and including two inch (2") water services will be decided on a case by case basis, subject to the type of usage. As a minimum requirement two standard check valves, or a double check valve, need to be installed.
 - 2. Larger than two inch (2") water services will require back-flow prevention and must be designed by a licensed engineer.

SECTION 5.0 – TERMINATION OF SERVICE

5.1 Termination by the District

No person, except the Water Superintendent shall terminate or restrict service at any connection to or from the Town water system.

The Water Superintendent may shut off the water from or in any District main or to any service connection, at any time, without notice when necessary for repair, maintenance or emergency situations. The District will not be responsible for any damage that may result therefrom.

Upon 15-days' notice to the consumer, service may be terminated by the Water Superintendent for any of the following reasons:

- (a) Failure to provide the Water Superintendent access to property for maintenance, reading, replacement or repair of a water meter;
- (b) Failure to repair an unmetered leak in the service within 10 days of detection and notification to repair (verbal or written) by the Water Superintendent. If, in the Water Superintendent's opinion, large volumes of water are being lost, the Water Superintendent may immediately terminate service after notice to the consumer.
- (c) Failure to install a meter valve or back flow preventer upon notice to do so.

If a water bill is delinquent after 60 days following the date of billing, a shutoff notice will be sent by regular mail to the owner. If the unpaid water bill is not paid within twenty (20) days, commencing with the day of mailing said notice, the water supply to the premises of the delinquent will be terminated. Wherever a water supply is terminated for non-payment of a water bill, an additional charge for services, as is established by resolution of the Town Board of Elba, payable in advance, delinquent water bill $\frac{1}{4}$ deposit required to turn water back on held for one year will be imposed before water service to the premises will be restored.

Charges to restore water service are listed in the Fee Schedule, provided in Appendix C, on file with the Town Clerk.

The Water Superintendent may immediately terminate service wherever necessary to preserve the integrity of the system; prevent contamination; prevent backflow; or when necessary for the safety of residents of the Town.

5.2 Termination by the Owner

5.21 Long-term Termination Request (one year or longer)

An owner requesting discontinuance of service shall submit a "Water Service Termination Request form" to the Water Superintendent. Upon receipt of such form, the water will be shut off at the curb, after payment of the turn-off fee; provided the Water Superintendent will not terminate service when the premises is occupied by a tenant. When turn off is permanent, water rents will cease.

5.22 Short-term Termination Requests (less than one year)

Short-term termination requests must be made in writing to the Water Superintendent. Upon notifications, District personnel will turn off the water at the curb; provided service will not be terminated when the premises are occupied

by a tenant. Any owner requesting that water be Quarterly minimum billings, if any, will continue during the time the water is shut off.

SECTION 6.0 – HYDRANTS AND FIRE REGULATIONS

6.1 Fire

In case of fire or an alarm of fire, all water consumers shall cease the use of water for motors, fountains, sprinkling or irrigation and power purposes during such fire, in the interest of keeping up a strong and effective pressure for fire purposes.

6.2 Operations of Hydrants

No persons except the Water Superintendent, or persons acting under his direction or permission, shall open any fire hydrant or draw water therefrom, except the Chiefs of the Town Fire Departments and members of those fire companies shall be authorized to draw water as necessary to fight fire, and for training purposes, and at scheduled fire drills. In no case shall inexperienced persons be allowed to manipulate or interfere with any such hydrants, gates, valves or other fixtures of said District.

6.3 Hydrant Location

All hydrants shall be installed on lands, easements or rights-of-way permanently owned or controlled by the District or Town.

Changes in location of existing hydrants will be made, except where otherwise required by law, at the expense of the owner requesting such change in location. All such requests shall be made in writing to the Board, and shall be at the discretion of the Board and/or the Water Superintendent.

New hydrants to be installed where existing hydrants exceed 600 feet spacing near new structures shall have material costs paid for by the Owner. The labor and installation costs shall be paid from the operation and maintenance fund for the District, given the added benefit to the District for fire protection.

6.4 Hydrant Access Requirement

No bushes or large plants shall be planted around or block access to said hydrants. No large objects such as vehicles or machinery shall be parked near to or block access to hydrants.

6.5 Hydrant Access Enforcement

The District may use acceptable methods to maintain access around any hydrant at the discretion of the Water Superintendent. The owner of the real property of the obstruction will be responsible for all costs associated removal of said obstruction.

SECTION 7.0 – PAYMENT FOR WATER SERVICE

7.1 Installation and Repair

A. The following expenses shall be borne by the District:

- i.** Cost of making taps, except tap-in fees.
- ii.** Maintenance and repair of meters subject to Section 4.0 of these regulations.
- iii.** Cost of installing and maintaining service line from main to curb stop inclusive, except in subdivisions involving new water lines and newly built structures in existing water service areas.
- iv.** Cost of installation of new hydrant at location of new structure. Material cost shall be by Owner.

B. The following expenses shall be borne by the Owner or consumer:

- i.** The cost of all materials and labor for laying and maintaining the service pipe upon and within the premises from the curb box serving said property.
- ii.** Tap-in fee as stated in Sections 2.0 and 3.0.
- iii.** Water use charges and special assessments.
- iv.** Fees for meters in accordance with Section 4.0 of these regulations.
- v.** Fees for turning service on or off at the curb as per the fee schedule on file in the Town Clerk's office.
- vi.** The cost of the meter, repair and testing of meters, except for mechanical defects of natural wear and tear, as set forth in Section 4.0 of these regulations.
- vii.** Materials for new fire hydrants to be installed.
- viii.** All other fees and charges as established from time to time by resolution of the Town Board.

7.2 Water Usage Charges

A. Responsibility for Usage Charges

All water usage will be charged to the consumers of the affected real property. Statements may be sent to a tenant upon written request by the owner on the form provided by the District. The sending of statements to the tenant shall not relieve the owner from responsibility for payment of the same.

B. Adding to Taxes

Unpaid water rental charges, fees and other charges shall be a lien upon the real property upon which, or in connection with which, the water was used, and shall be added to the taxes assessed against the premises.

7.3 Special District Assessments

A. Indirect Benefit

A special assessment, as permitted by law, shall be laid against the assessed valuation, including exemptions, public service and public franchise, of all properties within the Town of Elba, to provide for the indirect benefits enjoyed by all properties because of the existence of said District. The Board reserves the right to set, and from time to time adjust, the rate of this indirect benefit assessment according to the best interests of the Town of Elba Water Districts.

B. Direct Benefit

A special assessment, as permitted by law, shall be laid against the assessed valuation, including exemptions, public service and special franchise, on properties abutting water mains or not abutting but receiving water therefrom, to provide for the District benefits enjoyed because of the existence of water service. The Board reserves the right to set, and from time to time adjust, the rate of this District Benefit Assessment according to the best interests of the Town of Elba Water Districts.

SECTION 8.0 – MAIN EXTENSIONS

- 8.1 The Board reserves the right to accept or reject any and all applications for main extensions in the best interest of the Districts. All water main extensions are subject to the rules and regulations set forth by the New York State Department of Health and the Bureau of Water Supply Protection.

SECTION 9.0 – SUPPLY OF WATER

9.1 General

The District undertakes to use reasonable care and diligence to provide a constant supply of water at a reasonable pressure to all consumers, but reserves the right, at any time, without notice, to shut off the water in its mains for the purpose of making repairs and/or extensions, or for any other purpose, and the Board and the District shall not be liable for a variation, deficiency or failure in the supply of water, or the pressure thereof, for any cause whatsoever, not for any damage caused thereby, or by the breaking or bursting of any main or service pipe or any attachment to the District System. All owners having boilers upon their premises which are dependent upon the pressure in the District mains are cautioned against danger of collapse or lack of water and all such damage shall be borne exclusively by the owner.

9.2 Interconnectors

In the interest of public health, the District will not permit its mains or services to be connected directly or indirectly with any service pipe or piping which is in any way

connected to any other source of water supply not fully approved by the Department of Health of the State of New York. The District will not permit its mains or service pipes to be connected in any way, directly or indirectly, to piping, tanks, vats or other apparatus which contains liquids, chemicals, or other matter which, if allowed to back flow into the District System could endanger the water supply.

9.3 Shortage

The Water Superintendent, subject to direction of the Board, may, if need be, in periods of drought or emergency, restrict the use of water for non-essential uses (such as irrigation sprinkling or washing cars) to particular hours determined by the District, or to prohibit it entirely. Failure to comply with such restriction shall constitute a violation of this Code.

SECTION 10.0 – IMPROVEMENTS

10.1 The Board may:

Order existing service pipes and fixtures to be replaced with acceptable material, as determined by the Water Superintendent and to refuse service with all penalties hereinbefore set forth for failure of an owner to comply with such order.

SECTION 11.0 – WATER USE RATES

The Board shall, from time to time, by resolution of the Board, establish and amend the water use rates, fees and charges for the purpose of meeting the expenses of the District in such amounts as shall be determined to be in the best interest of the District. Such rates shall be on file in the Town Clerk's office. Refer to Appendix C.

SECTION 12.0 – VIOLATIONS; PENALTIES FOR OFFENSES

All remedies and penalties set forth are separately applicable. The Town may enforce this Code by any and all remedies set forth in this section.

12.1 Emergencies

If, in the judgement of the Board or Water Superintendent, as imminent health hazard or imminent danger to property exists, it may immediately cause service to any building or premises to be terminated and not restored until the defects are corrected.

12.2 Notification of Violation

The Board may notify the owner or authorized agent of the owner of the building or premises in which there is found a violation of this Code of such violation and shall set a reasonable time for the owner to have the violation removed or corrected. Upon failure of the owner to have the defect corrected by the end of the specified time interval, the Board may cause the water service to the building or premises or property to be terminated and not be restored until such condition or defects are corrected.

12.3 Fines and Imprisonment

A. Any violation of this Code shall be an offense and shall be punishable by a fine of not more than \$250 and/or imprisonment for a period of 15 days, provided that

any violation which is a misdemeanor or felony pursuant to the New York State Penal Law shall be punishable as set forth therein.

- B. Every week that a violation continues shall constitute a separate offense.
- C. Injunctive Relief: In addition to any other remedy the Town shall be entitled to injunctive relief and any other remedy, including termination of service, as provided in Section 5.1.
- D. Termination: Service may be terminated as provided in Section 5.1.
- E. Nothing herein shall prevent or preclude prosecution pursuant to New York State Penal Law or other state statute.

SECTION 13.0 – EFFECTIVE

This Local Law shall become effective upon filing with the Secretary of State.

APPENDIX A

WATER SERVICE HEAD LOSS CHART

Appendix A Water Service Head Loss Chart

Service Length in feet	<u>Pressure Loss in p.s.i at 15 gpm</u>					
	1" P.E. 0.860	1" cop. 0.995	1 ½" P.E. 1.242	1 ½" cop. 1.481	2" P.E. 1.624	2" cop. 1.959
50	6.65	3.27	1.11	0.47	0.30	0.12
100	13.30	6.54	2.22	0.94	0.60	0.24
150	19.95	9.81	3.34	1.42	0.90	0.36
200	26.60	13.08	4.45	1.89	1.21	0.48
250	33.24	16.35	5.56	2.36	1.51	0.61
300	39.89	19.62	6.67	2.83	1.81	0.73
350	46.54	22.89	7.78	3.31	2.11	0.85
400	53.19	26.17	8.90	3.78	2.41	0.97
450	59.84	29.44	10.01	4.25	2.71	1.09
500	66.49	32.71	11.12	4.72	3.02	1.21
550	73.14	35.98	12.23	5.20	3.32	1.33
600	79.79	39.25	13.34	5.67	3.62	1.45
650	86.43	42.52	14.46	6.14	3.92	1.57
700	93.08	45.79	15.57	6.61	4.22	1.70
750	99.73	49.06	16.68	7.08	4.52	1.82
800	106.38	52.33	17.79	7.56	4.83	1.94
850	113.03	55.60	18.90	8.03	5.13	2.06
900	119.68	58.87	20.02	8.50	5.43	2.18
950	126.33	62.14	21.13	8.97	5.73	2.30
1000	132.98	65.41	22.24	9.45	6.03	2.42

Calculations were made with the following assumptions:

1. Hazen Williams C factor is 150 for both copper and P.E. tubing.
2. P.E. tubing is sized to approximate copper tubing sizes.
3. P.E. tubing is rated as SDR 9 – 200 psi.

APPENDIX B

WATER SERVICE DETAILS

WATER MAIN GENERAL NOTES:

- 1) CONTRACTOR RESPONSIBLE FOR VERIFYING, BEFORE CONSTRUCTION, THAT THE LATEST STANDARD DETAILS ARE BEING USED, AS POSTED ON THE TOWN OF BATAVIA WEBSITE.
- 2) ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOH, LOCAL DOH, NYSDOT, OSHA, AND TOWN REQUIREMENTS.
- 3) SHEETING, IF NECESSARY, WILL BE AS REQUIRED BY N.Y.S.D.O.T., COUNTY, OR ANY LOCAL, STATE, OR FEDERAL REGULATIONS.
- 4) THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES, SERVICES, SEWERS AND LATERALS AHEAD OF PIPE LAYING OR OTHER WORK OPERATIONS SO THAT IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT, DUE TO INTERFERENCE, THESE CHANGES CAN BE MADE IN ADVANCE OF THE WORK.
- 5) MINIMUM COVER ON ALL NEW WATER MAIN IN LAWN, FIELDS, AND DRIVES SHALL BE FIVE (5) FEET MEASURED FROM FINISH GROUND SURFACE EXCEPT AS OTHERWISE NOTED. MINIMUM COVER ON ALL NEW WATER MAIN IN ROADS SHALL BE SIX (6) FEET MEASURED FROM THE FINISH GROUND SURFACE EXCEPT OTHERWISE NOTED.
- 6) WHERE THE CLEARANCE BETWEEN THE WATER MAIN AND ANY EXISTING UTILITY OR SERVICE CONNECTIONS IS LESS THAN ONE (1) FOOT, NYSDOT ITEM #203.07M SELECT GRANULAR FILL SHALL BE PROVIDED.
- 7) ALL FITTINGS SHALL BE BACKED UP WITH 3,000 PSI CONCRETE THRUST BLOCK.
- 8) HIGHWAY DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION. THE ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO HIGHWAYS.
- 9) SAFE AND CONTINUOUS THROUGH TRAFFIC AND INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
- 10) THE OWNER WILL OBTAIN ALL NECESSARY EASEMENTS OR PERMITS.
- 11) THE CONTRACTOR SHALL LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR RE-ESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION.
- 12) WHEN INSTALLING HYDRANTS OR BLOW-OFFS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISH GRADE, WEEP HOLES (DRAINS) SHALL BE PLUGGED AND PUMPER CONNECTION PAINTED BLUE.
- 13) MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPE (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER THE SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND SETTLING TO THE SEWER ON THE WATER MAIN.
- 14) WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- 15) ALL ASPHALT DRIVES CROSSED BY THE WATER MAIN INSTALLATION SHALL BE SAW CUT AT THE LIMIT OF THE DISTURBED AREA AND RESURFACED. WHEN DISTURBED AREA IS WITHIN THE RIGHT OF WAY, SAW CUT AND RESURFACE TO THE EDGE OF PAVEMENT.
- 16) ALL CONCRETE SIDEWALKS CROSSED BY THE WATER MAIN INSTALLATION SHALL BE SAW CUT.
- 17) A CRITICAL RESPONSIBILITY OF THE CONTRACTOR: EROSION CONTROL DEVICES SHALL BE ESTABLISHED PRIOR TO COMMENCING WORK.
- 18) ALL EXISTING UTILITY LINES AND SERVICE LATERALS NEAR OR CROSSING THE NEW WATER MAIN SHALL BE PROTECTED, PRESERVED AND SUPPORTED AS NECESSARY.
- 19) UTILITY POLES SHALL BE SUPPORTED, WHERE NECESSARY.
- 20) CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL TREES, FENCES AND OTHER OBSTACLES WITHIN THE RIGHT OF WAY AND EASEMENT. WHEN IN PROXIMITY OF TREES, DRILL UNDER TREES, PER TOWN OF BATAVIA.
- 21) PROTECTION OF NEW OR EXISTING WORK SHEETING OR SHORING, IF REQUIRED DURING CONSTRUCTION, SHALL BE PROVIDED.
- 22) WHEREVER MAILBOXES, POSTS, FENCES, SHRUBBERY ETC. ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THEY SHALL BE REMOVED AND RESET AS NECESSARY.
- 23) CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF EXCAVATED MATERIAL FROM THE SITE. DISPOSAL WITHIN THE TOWN OF BATAVIA REQUIRES A FILL PERMIT.
- 24) THE CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF ANY APPLICABLE EASEMENTS.
- 25) THE CONTROL OF DUST ORIGINATING FROM THE CONSTRUCTION OPERATIONS IS CONSIDERED A CRITICAL RESPONSIBILITY OF THE CONTRACTOR. THE WATER SYSTEM OPERATOR WILL BE THE FINAL JUDGE OF THE ADEQUACY OF THE CONTRACTOR'S DUST CONTROL EFFORTS, AND WORK MAY BE SUSPENDED BY THE TOWN UNTIL ADEQUATE DUST CONTROL IS ATTAINED.
- 26) THE CONTRACTOR SHALL PERFORM WATER LEAKAGE TESTING IN ACCORDANCE WITH AWWA STANDARD C600.
- 27) THE CONTRACTOR SHALL DISINFECT THE INSTALLED WATER LINE IN ACCORDANCE WITH AWWA STANDARD C651.

ISSUE DATE: JUNE 2015 REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS WATER MAIN GENERAL NOTES
		DRAWING W-01

STANDARD MATERIAL LIST				
DESCRIPTION & DETAILS REFERENCED	ALTERNATIVE 1 MAKE/MODEL/MATERIAL	ALTERNATE 2 MAKE/MODEL/MATERIAL	COMMENTS	
WATER MAIN (TRENCHED)	DR-18 PVC			
GRADE RING; W-04B, W-18, W-19	KISTNER CONCRETE	LAKELANDS CONCRETE		ANCHORED WITH S/S STUD BOLTS, WASHER AND NUTS (501, 502 OR 505 S/S)
MANHOLE FRAME AND COVER; W-18, W-19	PAMREX MODEL 36"	EAST JORDAN ERGO XL 36"		LID LABELED "WATER"
PRECAST MANHOLE INTERIOR COATING; W-18, W-19	SIKAGARD NO. 62	DURALKOTE 500		
PRECAST MANHOLE EXTERIOR COATING; W-18, W-19	2 COATS OF CARBOLINE BITUMASTIC 300M	2 COATS OF HI-BUILD TNAME-TAR SERIES 46H-413		
PRECAST MANHOLE PIPE CONNECTIONS; W-18, W-19	PRESS SEAL CAST A SEAL 12-08 CAST IN BOOT	PRESS-SEAL PSX DIRECT DRIVE CONNECTOR		
WATER MAIN DETECTABLE WARNING TAPE; W-16, W-17	PROPAK INDUSTRIES 5 MIL DETECTABLE WARNING TAPE, 3" WIDE	OR EQUAL		BLUE IN COLOR LABELED "BURIED WATER PIPE"
TRACER WIRE; W-04, W-16, W-17, W-21	10-GAUGE, STRANDED COPPER, INSULATED TRACER WIRE	COPPERHEAD 12-GAUGE, SOLID STEEL CORE, COPPER PLATED, INSULATED TRACER WIRE		OR EQUAL; BLUE IN COLOR
HDPE TO PVC CONNECTION; W-12	EBAA IRON SERIES 1500 RESTRAINT	ROMAC SERIES 600 RESTRAINTS		
FILTER FABRIC; W-11, W-19	MIRAFI 140N	TYPAR STYLE 3341		
PIPE SUPPORT - AIR RELEASE MH; W-19	STANDON MODEL S92	PIPELINE PRODUCTS MODEL PS-S		BOLTS AND STRAPS SHALL BE STAINLESS STEEL
AIR RELEASE VALVE; W-19	GA INDUSTRIES FIGURE 925	GA INDUSTRIES IS TOWN STANDARD, NO ALTERNATIVE AIR RELEASE ACCEPTED		AIR RELEASE VALVE SIZE TO BE DETERMINED BASED ON CONDITIONS, 1/2" AND 1" BALL VALVES (3 VALVES TOTAL) SHALL BE INCLUDED FOR FUTURE MAINTENANCE

ISSUE DATE: MAY 2018 REVISIONS

TOWN OF ELBA

DATE

COMMENTS

06/2017

CURB STOP W/ AIR RELEASE TO MATCH CURB BOX ALT.

04/2018

UPDATED MODEL NUMBERS & CLARIFIED

WATER DETAILS

STANDARD MATERIAL LIST

DRAWING W-03A

STANDARD MATERIAL LIST				
DESCRIPTION & DETAILS REFERENCED	ALTERNATIVE 1 MAKE/MODEL/MATERIAL	ALTERNATIVE 2 MAKE/MODEL/MATERIAL	COMMENTS	
2" PERMANENT BLOW-OFF ASSEMBLY; W-07	SEE 2" WATER SERVICE - CURB BOX ON W-03C			
	SEE 2" WATER SERVICE - CURB STOP ON W-03C			
	2" QUICK JOINT COUPLING FORD C-84-77-Q	MUELLER 110 COUPLING, H-15428N		
	SEE WATER SERVICE - GRADE RING ON W-03C			
GATE VALVE; W-07, W-10, W-13, W-20	EAST JORDAN 1566Z FRAME AND 1566 COVER	NEENAH R-1975-A2 FRAME AND COVER		
	RESILIENT SEAT, OPEN LEFT, NRS MUELLER MODEL A-2360 MxMJ WITH S/S FASTENERS	RESILIENT SEAT GATE VALVE NRS, OPEN LEFT KENNEDY 8571 WITH S/S FASTENERS		
WATER MAIN - TAPPING SLEEVE; W-08, W-20	FORD MODEL FTSS STAINLESS STEEL TAPPING SLEEVE	SMITH BLAIR MODEL 685 STAINLESS STEEL TAPPING SLEEVE		
	MECHANICAL JOINT PIPE RESTRAINT; W-08, W-09, W-10, W-11, W-12, W-14A	ROMAC XXX-GRAP-IP GRIP RING PIPE RESTRAINT		
HYDRANT - MUNICIPAL; W-11	5-1/4 BREAK AWAY KENNEDY NO K81A - MUNICIPAL, PAINTED RED YELLOW	NO EQUAL - TOWN STANDARD		FIELD APPLY SECOND COAT OF RED PAINT AFTER INSTALL. WIRE BRUSH LOOSE OR CHIPPED PAINT
HYDRANT - PRIVATE	5-1/4 BREAK AWAY KENNEDY NO K81D - MUNICIPAL, PAINTED RED			
IN LINE / HYDRANT VALVE BOX; W-10, W-11, W-13	TYLER UNION 6855 SLIP TYPE VALVE BOX	BINGHAM AND TAYLOR FIGURE 4908 SLIP TYPE VALVE BOX		
HYDRANT VALVE; W-11	6" RESILIENT SEAT, OPEN LEFT, NRS MUELLER MODEL A-2360 MxMJ WITH S/S FASTENERS	6" RESILIENT SEAT GATE VALVE NRS, OPEN LEFT KENNEDY 8571 WITH S/S FASTENERS		
SANITARY YARD HYDRANT; W-21	FREEZE FLOW, EXECUTIVE SANITARY YARD HYDRANT, MODEL S135E			
MECHANICAL JOINT TEE; W-11	TYLER UNION MJ C153	ANY AMERICAN MJ TEE		
TEES, WYES, BENDS	AMERICAN MADE DUCTILE IRON - CEMENT LINED	ANY AMERICAN MANUFACTURER		
FIRE DEPARTMENT CONNECTION	SINGLE 5" "STORZ" CONNECTION WITH 30' ELBOW & CAP ON OUTSIDE OF BUILDING			

ISSUE DATE: MAY 2018 REVISIONS

TOWN OF ELBA

DATE

COMMENTS

06/2017

FIRE DEPARTMENT CONNECTION ADDED

04/2018

UPDATED MODEL NUMBERS & CLARIFIED

WATER DETAILS

STANDARD
MATERIAL LIST

DRAWING W-03B

STANDARD MATERIAL LIST			
DESCRIPTION & DETAILS REFERENCED	ALTERNATIVE 1 MAKE/MODEL/MATERIAL	ALTERNATE 2 MAKE/MODEL/MATERIAL	COMMENTS
WATER SERVICE - SERVICE SADDLE; W-04B, W-05, W-06, W-13	FORD MODEL FS313-XXX-CC TAP S/S SERVICE SADDLE	SMITH BLAIR 372 S/S SERVICE SADDLE	
WATER SERVICE - CURB BOX, ALL SIZES; W-04B, W-05, W-13, W-18	MUELLER MARK II ARCH STYLE SLIDING CURB BOX WITH STAINLESS STEEL ROD H10308 OR H10310	FORD CURB BOX MODEL EA2-50-60-30 WITH S/S ROD AND CB-7 CURB BOX BASE (IF REQUIRED), LID MARKED "WATER"	ALTERNATIVE 3: A.Y. MCDONALD ARCH STYLE SLIDING CURB BOX MODEL 5606 WITH S/S ROD MARKED "WATER"
WATER SERVICE - CURB STOP; W-04B, W-05, W-06, W-13	1" CURB STOP MUELLER MARK II ORISEAL COMPRESSION TYPE H15209N	FORD B44-444-Q-NL	TYPICAL SIZE IS 1" HOWEVER AS DETERMINED BY ENGINEER
WATER SERVICE - PE STIFFENERS; W-04, W-05, W-06, W-07, W-18, W-21	MUELLER PART 505142 S/S INSERTS	FORD INSERT 53 S/S	
WATER SERVICE - METER PIT SETTER; W-04B, W-13	20" DOUBLE LID METER BOX, FORD PDBHH-288-20-60-G WITH 3/4" MIP INLET/OUTLET	AY MCDONALD MODEL 780W260WDPP 33X21 RISER STYLE PIT SETTER	TO ASSEMBLE IN LIEU OF PURCHASING, SEE DETAIL W-04D
WATER SERVICE - GRADE RING; W-04B	METER BOX SUPPORT GRADE RING - KISTNER PB-18-S	LAKELANDS GR-18	
WATER SERVICE - COUPLING; W-04B, W-04D, W-04D, W-06	QUICK JOINT COUPLING FORD CT4-34-Q	MUELLER 110 COUPLING, H-1541N	
WATER SERVICE - METER BOX LID; W-04B, W-04D, W-05, W-13	FORD WABASH DOUBLE INSET LID METER BOX COVER W-3-T WITH TOUCH READ HOLE	MUELLER H-10814 PIT DOUBLE WITH CAST IRON COVER	ALTERNATIVE 3: AY MCDONALD MODEL 74M4WT METER BOX COVER AND FRAME WITH INNER LID
WATER SERVICE - METER; W-04B, W-04D, W-13	SENSUS IPERL 5/8x3/4 METER PIT LID VERSION WITH MODEL 520R PIT VERSION MXU AND LEAK DETECTION	NO EQUAL - TOWN STANDARD	METER MAY BE LARGER AT THE DISCRETION OF THE TOWN ENGINEER
WATER SERVICE - CORP STOP, ALL SIZES INCLUDING TEMPORARY BLOW-OFF; W-04B, W-05, W-06, W-13, W-18	MUELLER B25008 SERIES 300 BALL STYLE CORPORATION VALVE	FORD FB1000 BALL CORP	
2" WATER SERVICE - SERVICE SADDLE; W-18	FORD FS313-XXX-CC S/S SERVICE SADDLE	SMITH BLAIR 372 S/S SERVICE SADDLE	
2" WATER SERVICE - CURB STOP; W-18	2" MUELLER 300 CURB VALVE B25209N	PER CONTRACT SPECIFICATIONS	
2" WATER SERVICE - METER; W-18	2" SENSUS OMNI T2 WATER METER	NO EQUAL - TOWN STANDARD	TOWN STANDARD IS SENSUS METERS
2" WATER SERVICE; W-18	36" SQUARE EAST JORDAN CASTING ALUMINUM HATCH - H-20 UNINTENDED VEHICULAR TRAFFIC RATE H363610801	36" SQUARE BILCO J-AL-H20 ALUMINUM HATCH	FOR TOB OF 4' SQUARE PRECAST METER VAULT

ISSUE DATE: MAY 2018 REVISIONS

TOWN OF ELBA

DATE

COMMENTS

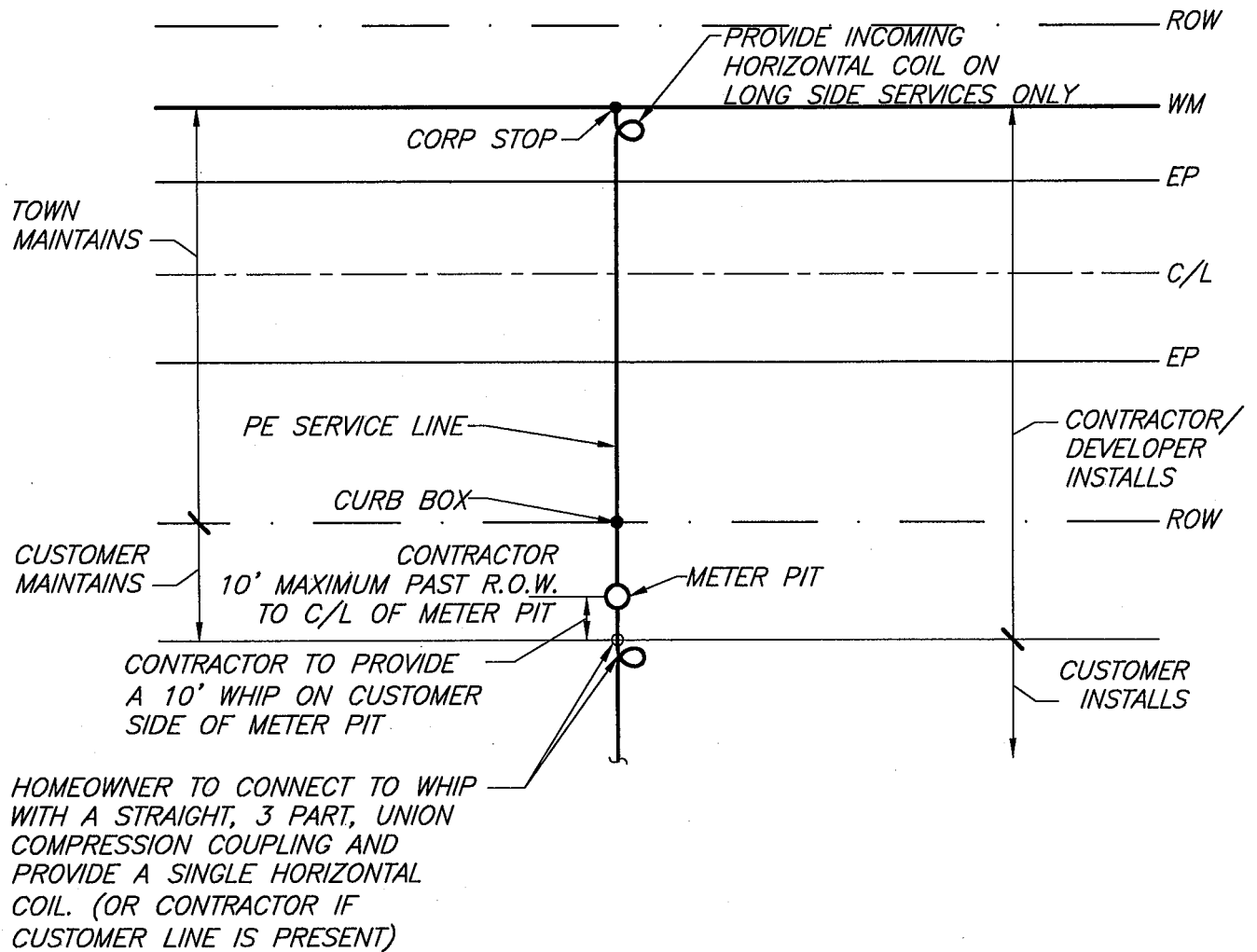
04/2018

UPDATED MODEL NUMBERS & CLARIFIED

WATER DETAILS

STANDARD MATERIAL LIST: SERVICES

DRAWING W-03C

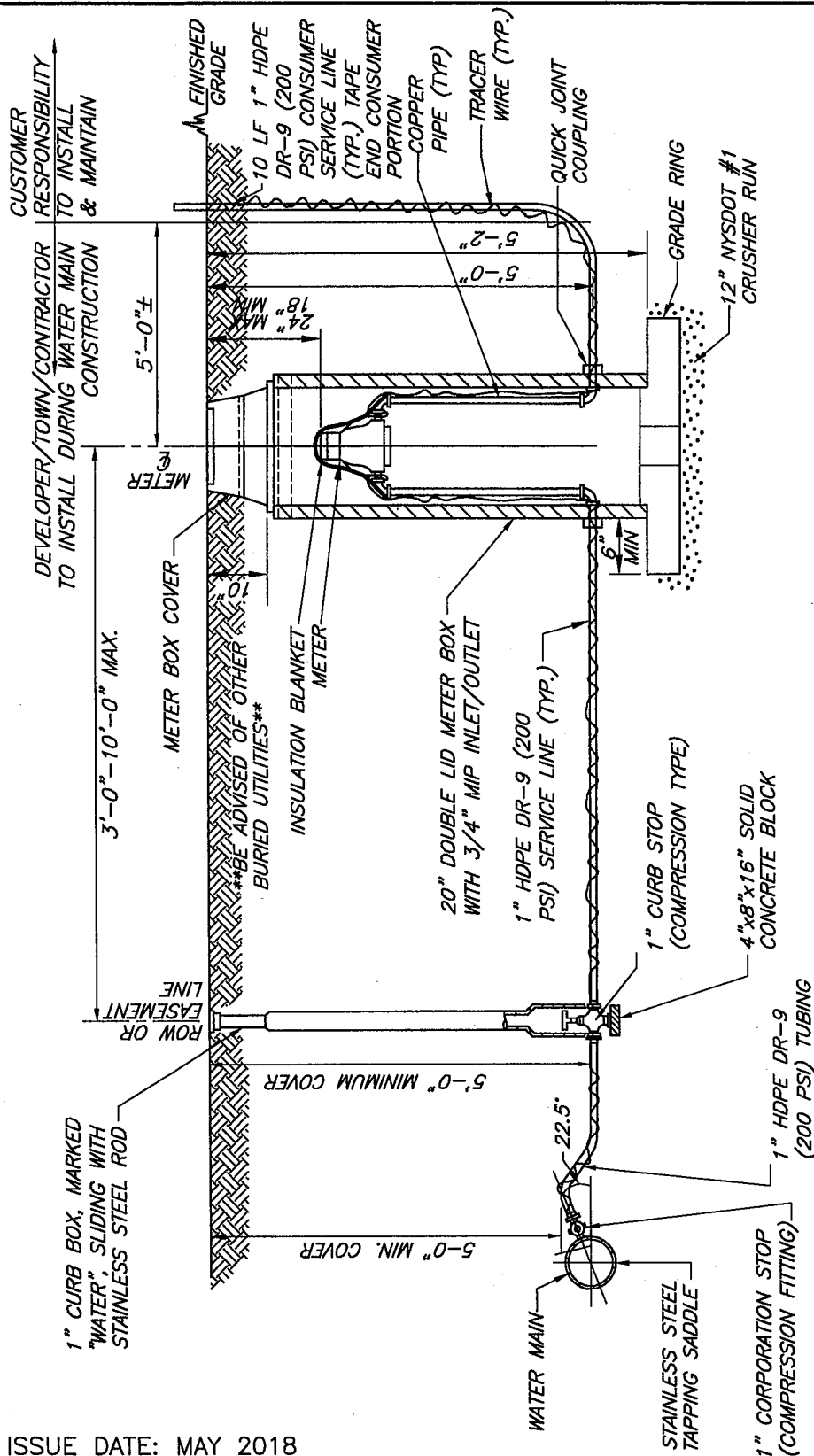


WATER SERVICE LAYOUT

N.T.S.

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		WATER SERVICE LAYOUT
		DRAWING W-04A



WATER SERVICE DETAIL: MAIN TO PIT

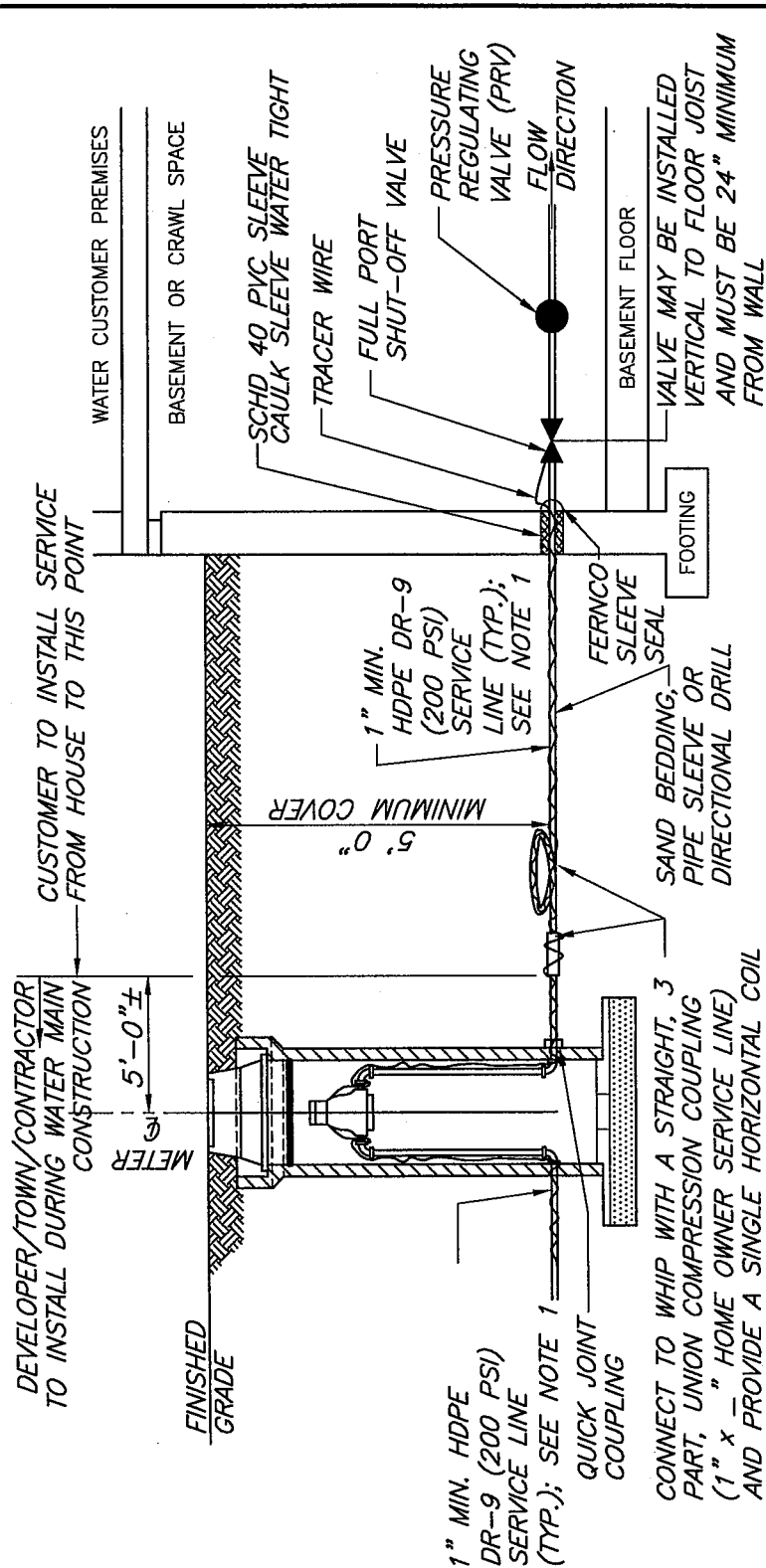
N.T.S.

NOTES:

- 1) STAINLESS STEEL INSERTS SHALL BE USED AT ALL HDPE CONNECTIONS.
- 2) PLUG END OF SERVICE LINE AT 5' HDPE EXTENSION IF NOT CONNECTED AT TIME OF METER PIT INSTALLATION.
- 3) HDPE SERVICE LINE SHALL BE ENCLOSED WITH A SLEEVE PIPE COVER PER WATER DEPT. OR 6" FINE SAND BEDDING ABOVE AND BELOW SERVICE AS APPROVED BY WATER DEPARTMENT.
- 4) HOUSE PENETRATION MUST HAVE SLEEVE 2X SERVICE SIZE SCHEDULE 40 PVC MIN. OR AS APPROVED.
- 5) TRACER WIRE SHALL BE PLACED ALONG ENTIRE HDPE SERVICE LINE AND BE ACCESSIBLE IN THE METER PIT.
- 6) A LARGER DIAMETER SERVICE LINE MAY BE REQUIRED WHERE DISTANCE, MAIN PRESSURE OR CONSUMER DEMAND ARE A FACTOR. IN SUCH CASES, CONTACT THE TOWN OF BATAVIA.
- 7) REFER TO MATERIAL LIST, W-03.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	
		WATER DETAILS WATER SERVICE DETAIL: MAIN TO PIT
		DRAWING W-04B



WATER SERVICE DETAIL: CUSTOMER PORTION

N.T.S.

NOTES:

- 1) STAINLESS STEEL INSERTS SHALL BE USED AT ALL HDPE CONNECTIONS.
- 2) HDPE SERVICE LINE SHALL BE ENCLOSED WITH A SLEEVE PIPE COVER OR FINE SAND BEDDING.
- 3) TRACER WIRE SHALL BE MADE CONTINUOUS FROM THE METER PIT TO THE BASEMENT OR CRAWL SPACE. CUSTOMER TO CONNECT TO TRACER WIRE AT THE POINT OF CONNECTION NEAR THE METER PIT.
- 4) THE INTERNAL PLUMBING SYSTEM SHALL BE PROTECTED FROM PRESSURE SURGES, THERMAL EXPANSION, HYDRAULIC SHOCK AND FREEZING PER THE NEW YORK STATE PLUMBING CODE AND BUILDING CODE OF THE TOWN OF BATAVIA.
- 5) MAINTENANCE OF THE WATER SERVICE FROM THE METER PIT TO AND INCLUDING THE INTERNAL PLUMBING ON PREMISES, AND ITS USE, MUST ALWAYS BE KEPT IN FULL COMPLIANCE. THE FOREGOING REMAINS THE SOLE RESPONSIBILITY OF THE WATER CUSTOMER. THE TOWN'S RESPONSIBILITY ENDS AT THE RIGHT-OF-WAY LINE OR EASEMENT AFTER CONSTRUCTION.
- 6) THE CUSTOMER MUST SUBMIT A COMPLETED WATER CONNECTION APPLICATION, OBTAIN TOWN APPROVAL TO PROCEED AND SCHEDULE INSPECTIONS BY THE TOWN PRIOR TO BACKFILLING OR PLACING THE CUSTOMER PORTION INTO USE.
- 7) A LARGER DIAMETER SERVICE LINE MAY BE REQUIRED WHERE DISTANCE, MAIN PRESSURE OR CONSUMER DEMAND ARE A FACTOR. IN SUCH CASES, CONTACT THE TOWN OF BATAVIA.
- 8) PROVIDE SUFFICIENT SLACK IN SERVICE PIPING TO ALLOW FOR EXPANSION AND CONTRACTION OF THE HDPE PIPE.
- 9) REFER TO MATERIAL LIST, W-03.

ISSUE DATE: JUNE 2015 REVISIONS

DATE	COMMENTS

TOWN OF ELBA

WATER DETAILS

WATER
SERVICE DETAIL:
CUSTOMER PORTION

DRAWING W-04C

PARTS LIST

- ① 18" PLAIN END SICPP
- ② FORD WABASH DOUBLE LID COVER
W32-T 18" I.D. W3-BPD RECESSED
PLASTIC INNER LID
- ③ 3/4" PVC CONDUIT PLUG ENDS DRILL/
INSTALL/SECURE SERVICE WITH ZIP TIES
- ④ FORD ANGLE INVERTED KEY METER
KV43-342W-Q 3/4" X 1" CTS OR
MUELLER GROUND KEY ANGLE METER
STOP H-14258N 3/4" X 1" CTS
- ⑤ FORD METER SWIVEL NUT INLET BY FIP
THREAD OUTLET SINGLE CHECK
#HA31-323-NL FIP 3/4"
- ⑥ STRAIGHT COUPLING MUELLER 110
CONDUCTIVE COMPRESSION
CONNECTION FOR CTS O.D. TUBING
BY MIP #H-15428 3/4" MIP X
1" CTS
- ⑦ 3/4" METER JUMPER
#H-10887
- ⑧ #1 CLEAN STONE

ISSUE DATE: JUNE 2015 REVISIONS

DATE	COMMENTS

TOWN OF ELBA
WATER DETAILS

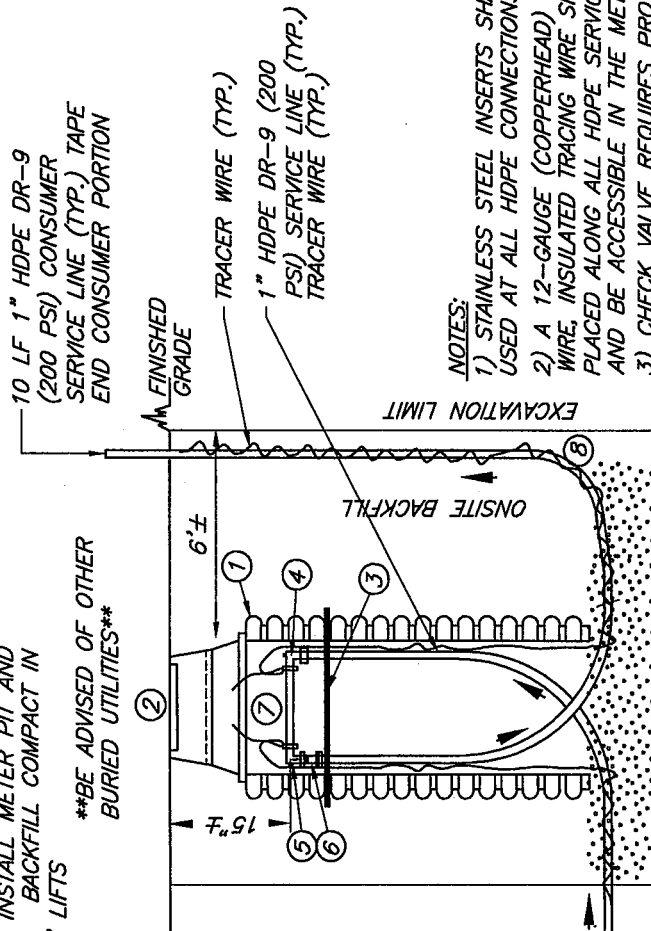
CUSTOM METER PIT ASSEMBLY

DRAWING W-04D

INSTALL NOTE:

1. EXCAVATE AND INSTALL AS
WATER SERVICE AS SHOWN
2. INSTALL METER PIT AND
LID. BACKFILL COMPACT IN
24" LIFTS

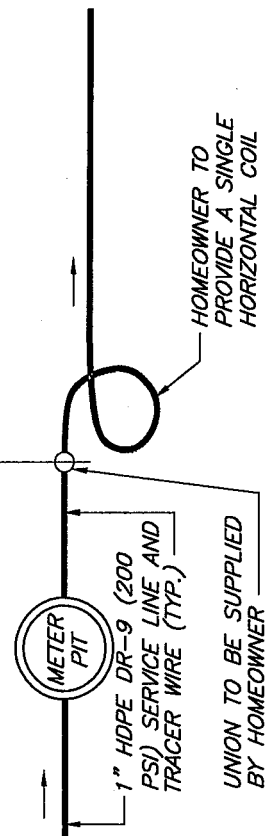
**BE ADVISED OF OTHER
BURIED UTILITIES**



- NOTES:
- 1) STAINLESS STEEL INSERTS SHALL BE
USED AT ALL HDPE CONNECTIONS.
 - 2) A 12-GAUGE (COPPERHEAD) TRACER
WIRE, INSULATED TRACING WIRE SHALL BE
PLACED ALONG ALL HDPE SERVICE LINE
AND BE ACCESSIBLE IN THE METER PIT
 - 3) CHECK VALVE REQUIRES PROVISIONS
BE MADE FOR THERMAL EXPANSION
AND/OR HYDRAULIC SHOCK KNOWN AS
"WATER HAMMER"

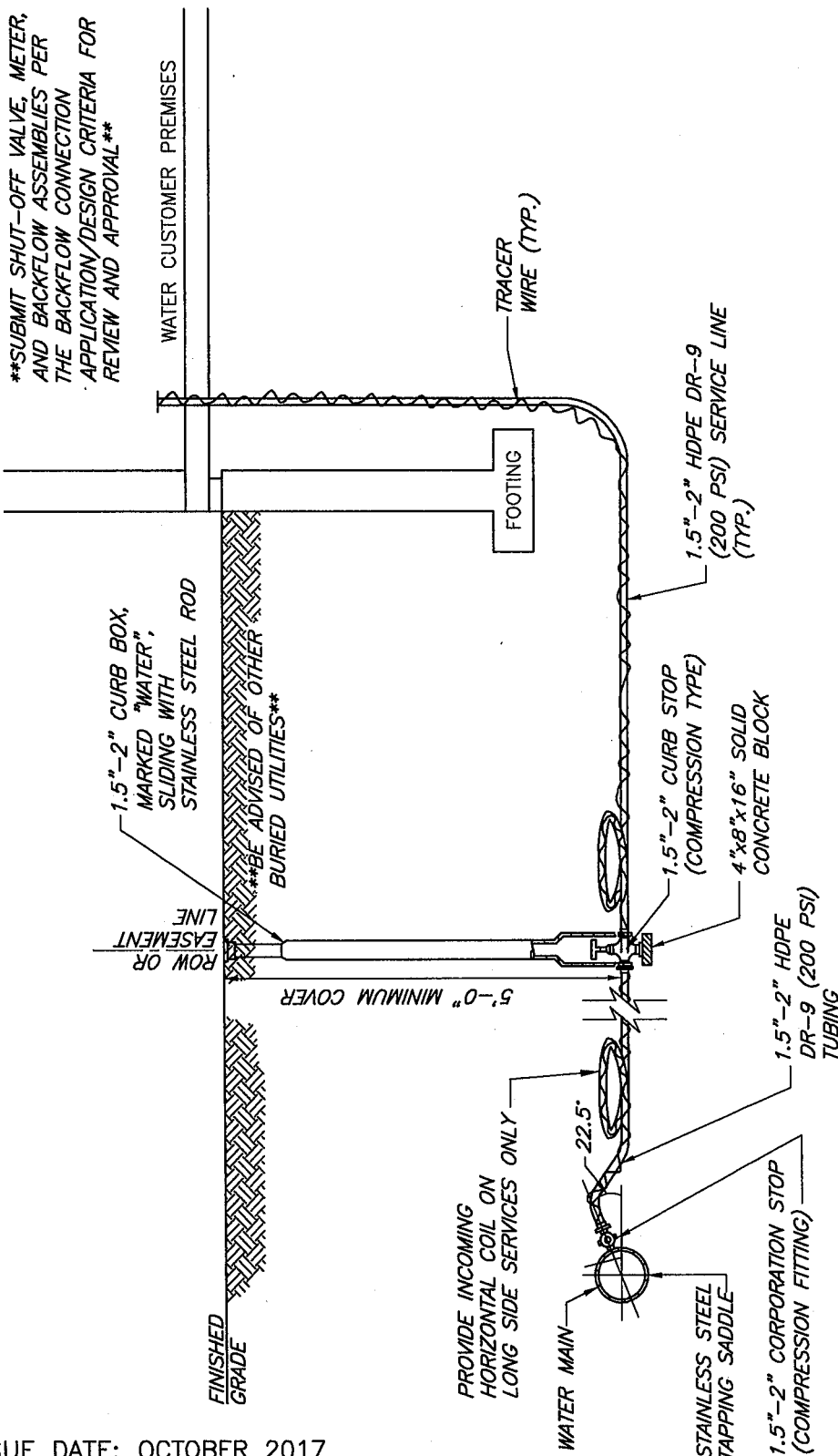
SECTION N.T.S.

DEVELOPER/TOWN/CONTRACTOR CUSTOMER
TO INSTALL DURING WATER MAIN
CONSTRUCTION TO INSTALL WITH UNION TO HOUSE



PLAN N.T.S.

****SUBMIT SHUT-OFF VALVE, METER, AND BACKFLOW ASSEMBLIES PER THE BACKFLOW CONNECTION APPLICATION/DESIGN CRITERIA FOR REVIEW AND APPROVAL****



SMALL COMMERCIAL WATER SERVICE DETAIL

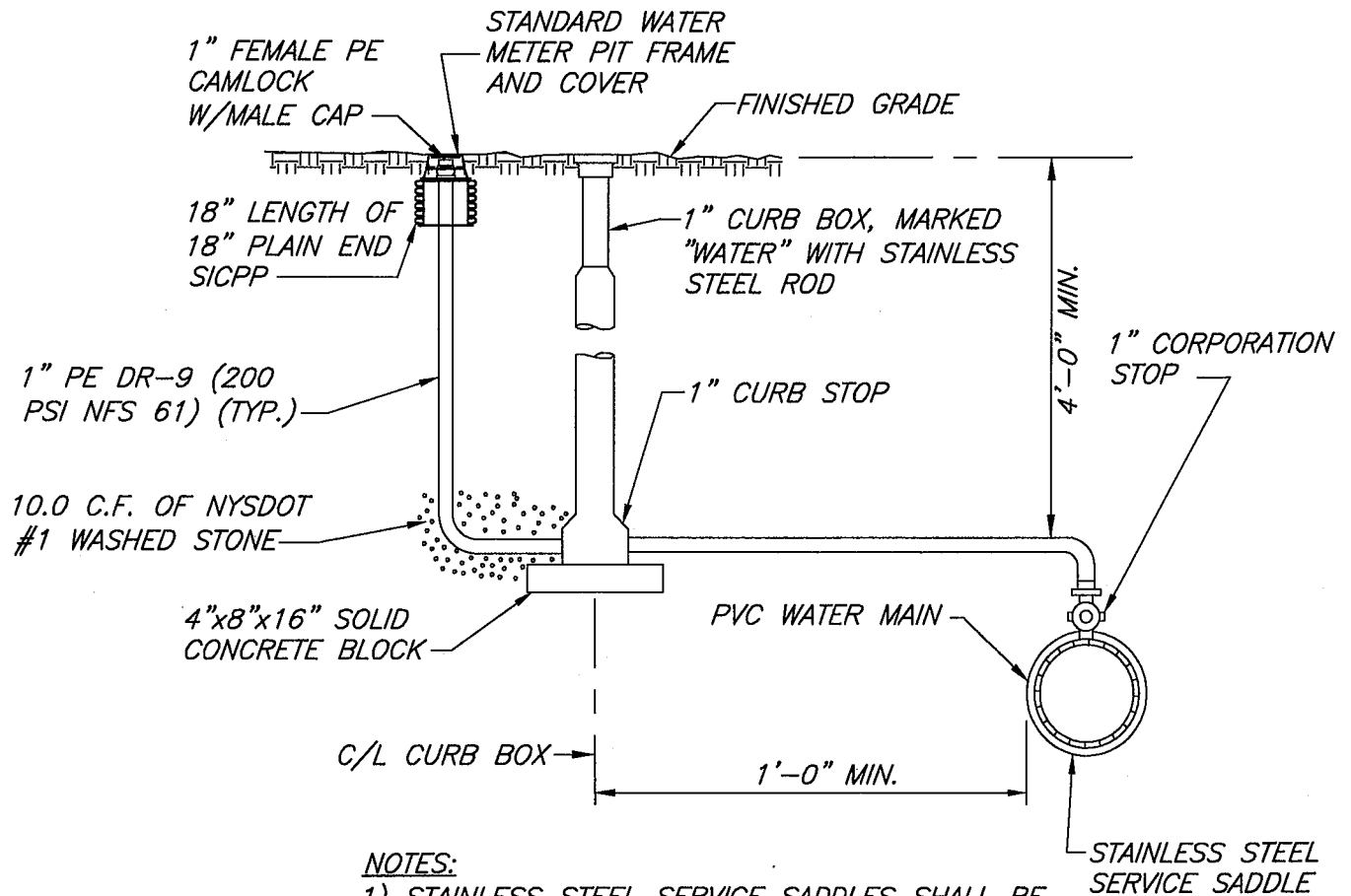
N.T.S.

NOTES:

- 1) STAINLESS STEEL INSERTS SHALL BE USED AT ALL HDPE CONNECTIONS.
- 2) PLUG END OF SERVICE LINE AT 5' HDPE EXTENSION IF NOT CONNECTED.
- 3) HDPE SERVICE LINE SHALL BE ENCLOSED WITH A PIPE SLEEVE COVER PER WATER DEPT. OR 6" FINE SAND BEDDING ABOVE AND BELOW SERVICE AS APPROVED BY WATER DEPARTMENT.
- 4) BUILDING PENETRATION MUST HAVE SLEEVE 2X SERVICE SIZE SCHEDULE 40 PVC MIN. OR AS APPROVED.
- 5) TRACER WIRE SHALL BE PLACED ALONG ENTIRE HDPE SERVICE LINE AND BE ACCESSIBLE IN THE BUILDING.
- 6) A LARGER DIAMETER SERVICE LINE MAY BE REQUIRED WHERE DISTANCE, MAIN PRESSURE OR CONSUMER DEMAND ARE A FACTOR. IN SUCH CASES, CONTACT THE TOWN OF BATAVIA.
- 7) REFER TO MATERIAL LIST, W-03.
- 8) A DESIGN SHALL BE SUBMITTED TO THE TOWN OF BATAVIA FOR APPROVAL FOR ALL SERVICE SIZES OF 3" OR LARGER.

ISSUE DATE: OCTOBER 2017

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		SMALL COMMERCIAL WATER SERVICE DETAIL
		DRAWING W-04E



NOTES:

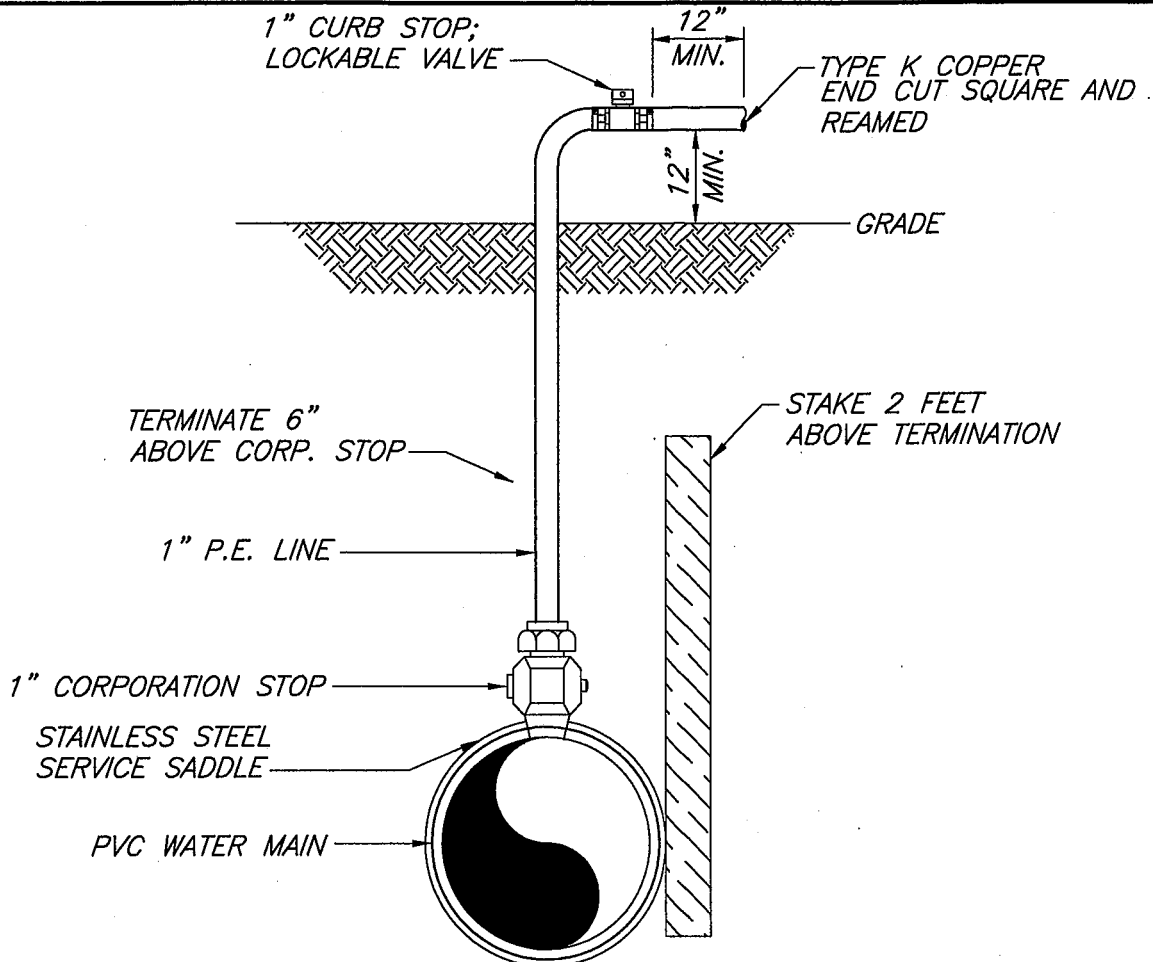
- 1) STAINLESS STEEL SERVICE SADDLES SHALL BE USED ON ALL TAPS.
- 2) STAINLESS STEEL INSERTS SHALL BE USED AT ALL PE CONNECTIONS.
- 3) REFER TO MATERIAL LIST, W-03.

1" MANUAL AIR RELEASE & PERMANENT DISINFECTION TESTING TAP

N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS 1" MANUAL AIR RELEASE & DISINFECTION TAP
07/2017	REVERSE CAMLOCK FEMALE/MALE; COVER & FRAME	
		DRAWING W-05



NOTES:

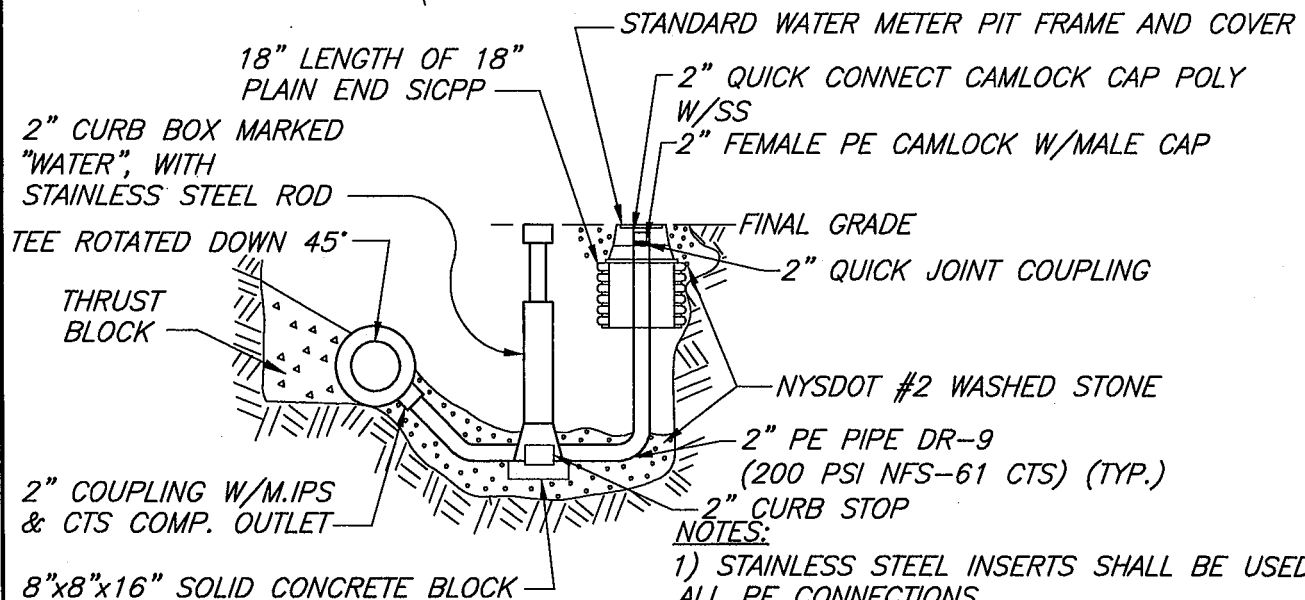
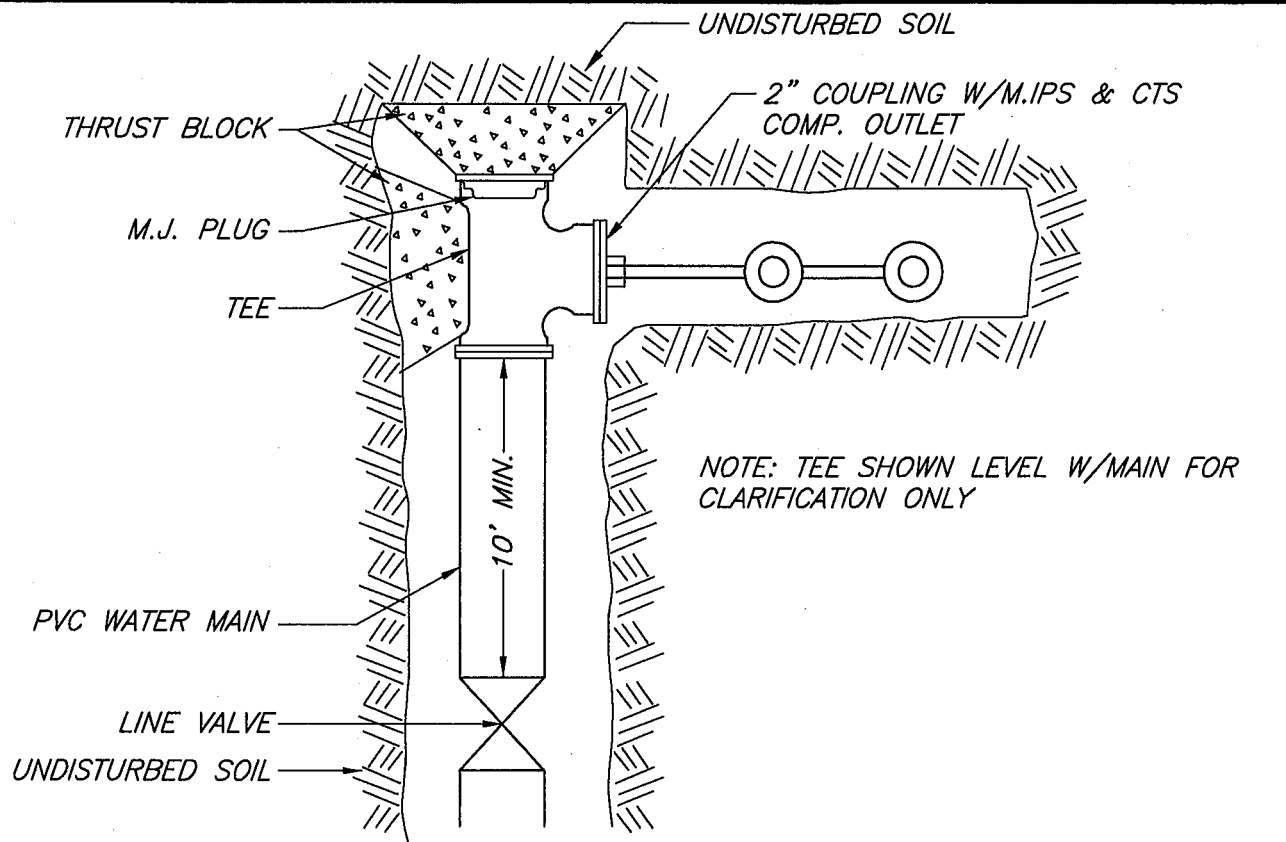
- 1) STAINLESS STEEL INSERTS SHALL BE USED AT ALL PE CONNECTIONS.
- 2) SADDLE AND CORPORATION STOP SHALL BE PLACED AT 22-1/2 DEGREES FROM HORIZONTAL IF IT WILL BE USED AS A SERVICE LOCATION.
- 3) IMMEDIATELY PRIOR TO THE WATER DEPARTMENT PLACING THE WATER MAIN IN SERVICE, CONTRACTOR SHALL REMOVE ALL COMPONENTS ASSOCIATED WITH TEMPORARY FACILITIES (i.e. SAMPLING TAPS, ETC.). THE CORPORATION STOP SHALL BE PLACED IN THE CLOSED POSITION AND THE QUICK CONNECT COUPLING PLUGGED IF THE LOCATION IS NOT USED AS A WATER SERVICE.
- 4) THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651. FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
- 5) FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- 6) THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE GENESEE COUNTY HEALTH DEPARTMENT.
- 7) REFER TO MATERIAL LIST, W-03.

N.T.S.

TEMPORARY DISINFECTION/BLOW-OFF/ SAMPLING TAP

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		TEMPORARY DISINFECTION/BLOW- OFF/SAMPLING TAP
		DRAWING W-06



2" BLOW-OFF AND THRUST BLOCK DETAIL

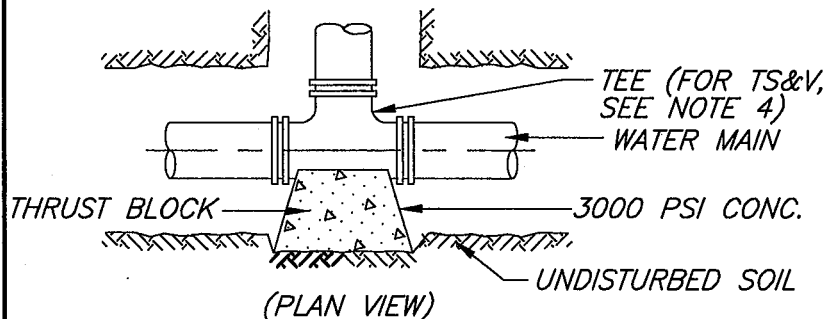
N.T.S.

ISSUE DATE: MAY 2018 REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
07/2017	REVERSE CAMLOCK FEMALE/MALE; COVER & FRAME	
04/2018	REPLACED CORP WITH COUPLING	
		2" BLOW-OFF AND THRUST BLOCK DETAIL
		DRAWING W-07

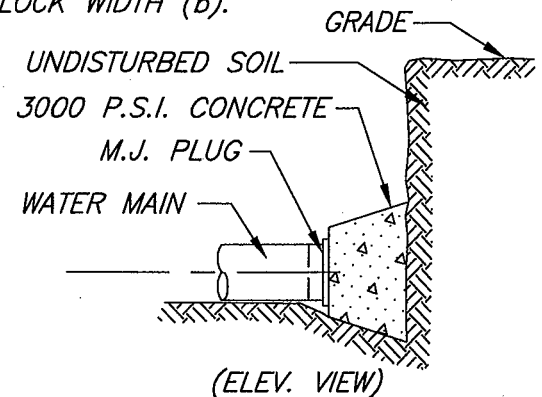
MINIMUM AREA OF BEARING FACE OF CONCRETE THRUST BLOCK (IN SQ.FT.) TO BE CALCULATED IN RELATIONSHIP TO BEARING CAPACITY OF SOIL BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL						
PIPE SIZE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	TEE/ T.S.&V.	PLUG
4", 6"	6	3	3	3	4	5
8"	10	6	3	3	8	8
12"	19	7	4	3	10	16
16"	24	13	7	3	19	19

NOTES:

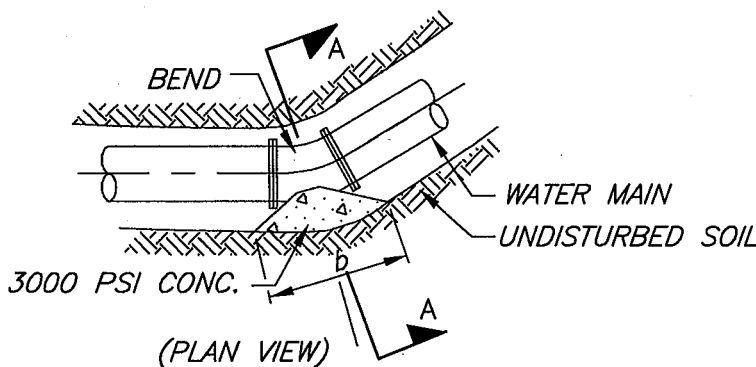
1. BLOCK HEIGHT (h) SHOULD BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (HT), BUT NOT LESS THAN PIPE DIAMETER (D).
2. BLOCK HEIGHT (h) SHOULD BE TWO TIMES THE BLOCK WIDTH (b).



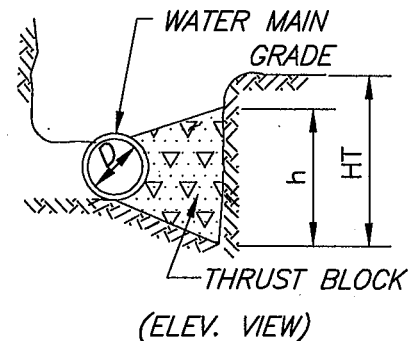
THRUST BLOCK FOR TEE



THRUST BLOCK FOR PLUG



THRUST BLOCK AT BENDS



SECTION A-A

TYPICAL THRUST BLOCK DETAIL

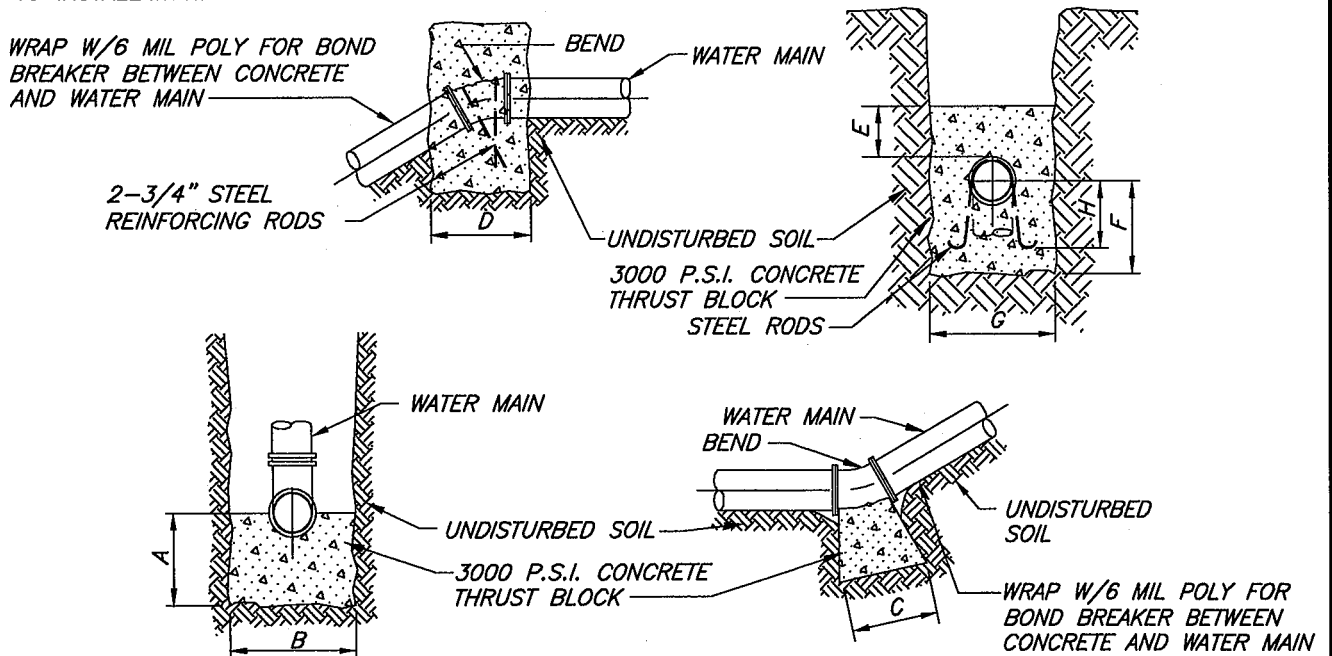
NOTES:

- 1) DIP FITTINGS SHALL BE WRAPPED WITH 6 MIL. THICK POLYETHYLENE, 2 FEET BEYOND END OF FITTING ON PVC PIPE.
- 2) PIPE RESTRAINER SHALL BE USED AT ALL FITTING TO PVC PIPE CONNECTIONS.
- 3) FLUOROCARBON COATED (BLUE) BOLTS AND NUTS SHALL BE USED AT ALL FITTINGS.
- 4) FOR TAPPING SLEEVE & VALVE, FLOWABLE FILL OR COMPACTED CONCRETE TO BE PLACED UNDERNEATH.
- 5) REFER TO MATERIAL LIST, W-03.

ISSUE DATE: MAY 2018 REVISIONS		TOWN OF ELBA	
DATE	COMMENTS	WATER DETAILS TYPICAL THRUST BLOCK DETAIL	
10/2017	ADDED NOTE ON TAPPING SLEEVE & VALVE		
		DRAWING W-08	

BEND	Min. Volume of Concrete For Block dimensions D,E,F,G	MINIMUM ALLOWABLE DIMENSION FOR VERTICAL THRUST BLOCKS (IN FEET)							
		A	B	C	D	E	F	G	ROD LENGTH H
6" 11 1/4"	.2 Cu. Yd.	1.0	2.5	1.0	2.0	0.5	1.0	2.0	0.5
22 1/2"	.4 Cu. Yd.	1.0	2.5	1.5	2.0	1.0	2.0	2.0	1.5
45°	.8 Cu. Yd.	1.5	2.5	1.5	2.5	1.5	2.0	2.5	1.5
90°	1.5 Cu. Yd.	1.5	2.5	2.0	4.0	1.5	2.0	3.0	1.5
8" 11 1/4"	.35 Cu. Yd.	1.0	2.5	1.5	2.0	1.0	1.5	2.0	1.0
22 1/2"	.7 Cu. Yd.	1.5	2.5	1.5	2.5	1.0	2.0	2.5	1.5
45°	1.4 Cu. Yd.	1.5	2.5	2.0	4.0	1.5	2.0	3.0	1.5
90°	2.6 Cu. Yd.	2.0	2.5	2.0	4.0	2.0	3.0	3.5	2.5
12" 11 1/4"	.8 Cu. Yd.	1.5	3.0	1.5	2.5	1.5	2.0	2.5	1.5
22 1/2"	1.6 Cu. Yd.	1.5	3.0	2.0	4.0	2.0	2.0	3.0	1.5
45°	3.2 Cu. Yd.	2.0	3.0	2.0	5.0	2.0	3.0	3.5	2.5
90°	6.0 Cu. Yd.	2.0	3.0	2.5	5.5	2.5	3.5	3.5	3.0
16" 11 1/4"	2.6 Cu. Yd.	2.0	3.5	4.5	4.1	1.0	2.5	2.0	3.0
22 1/2"	6.8 Cu. Yd.	2.5	3.5	4.5	5.7	1.0	3.5	2.5	4.0
45°	10.0 Cu. Yd.	3.5	3.5	6.0	7.8	1.5	3.5	3.0	4.0
90°	12.0 Cu. Yd.	3.0	3.5	6.0	8.0	2.0	3.5	3.5	4.0

NOTE: THE DEVELOPER MAY ELECT TO USE REINFORCING RODS AS OPPOSED TO CONCRETE THRUST BLOCKS FOR VERTICAL BENDS. ALL THRUST RESTRAINT BY ROD SHALL BE APPROVED BY THE WATER SYSTEM OPERATOR PRIOR TO INSTALLATION.



VERTICAL THRUST BLOCK

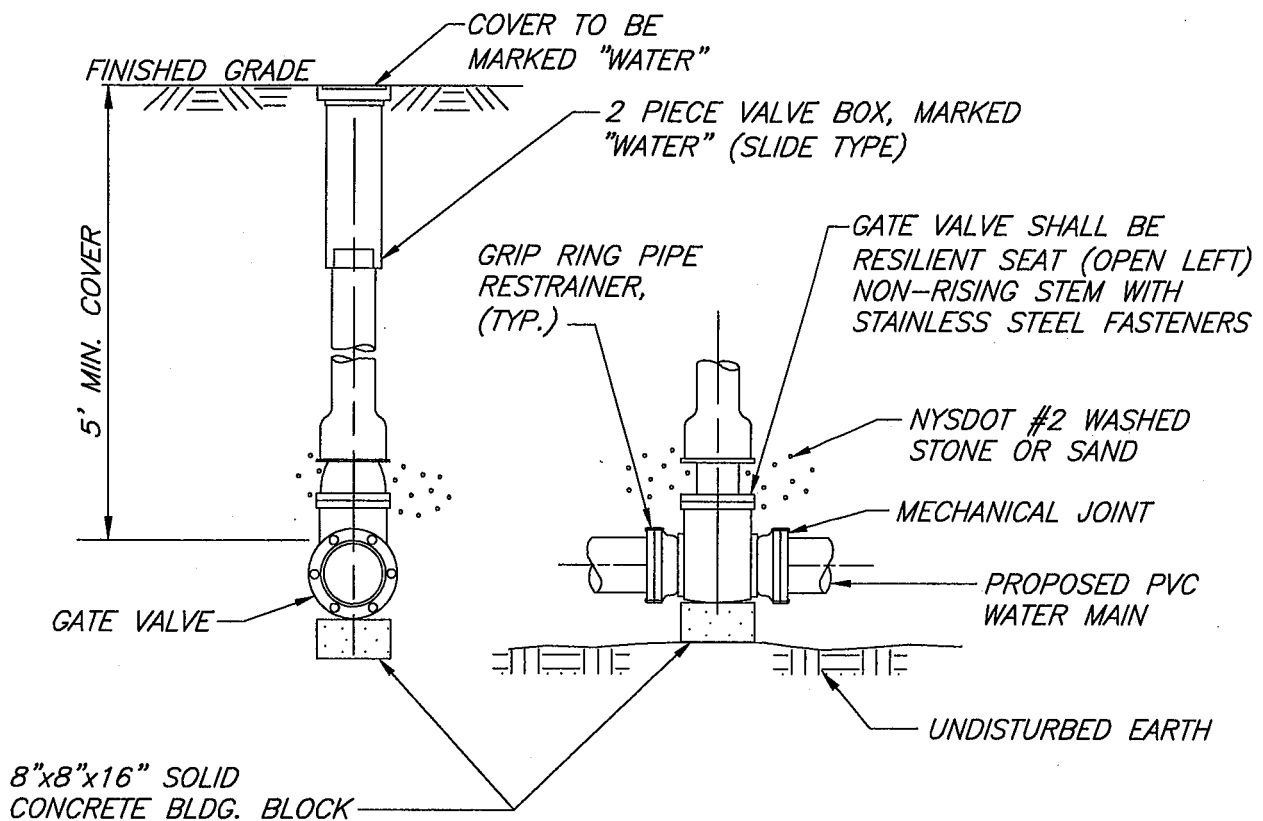
N.T.S.

NOTES:

- 1) NO CONCRETE TO ENCOMPASS ANY BOLTS OR BELL ENDS WHERE POSSIBLE.
- 2) DIP FITTINGS SHALL BE WRAPPED WITH 6 MIL. THICK POLYETHYLENE, 2 FEET BEYOND FITTING ON PVC PIPE.
- 3) PIPE RESTRAINER SHALL BE USED AT ALL FITTING TO PVC, CI & DIP PIPE CONNECTIONS.
- 4) REFER TO MATERIAL LIST, W-03.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS VERTICAL THRUST BLOCK DETAIL
		DRAWING W-09



NOTES:

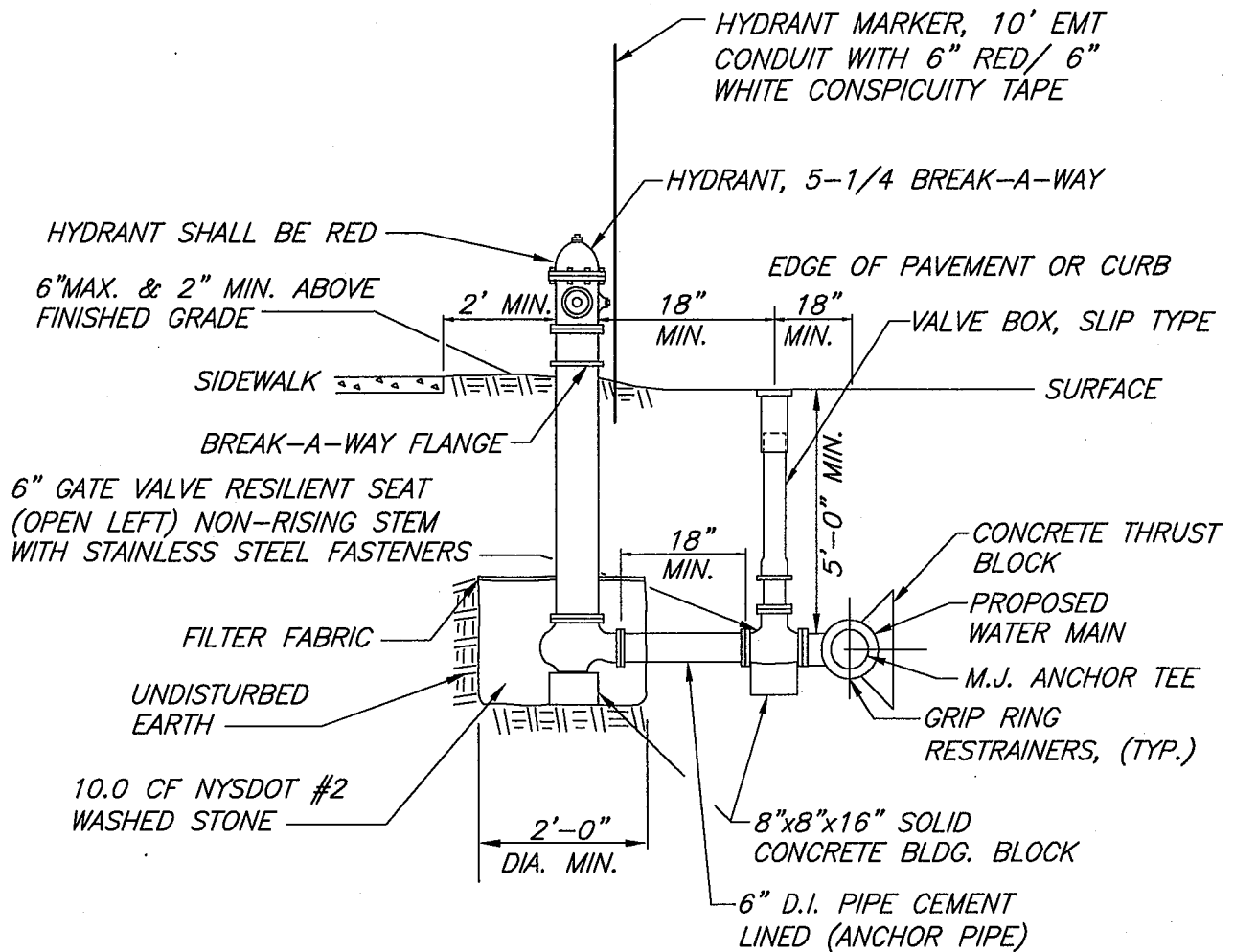
- 1) THE VALVE BOX SHALL BE BACKFILLED SO THAT IT DOES NOT REST ON THE VALVE HOUSING.
- 2) ALL BOLTS AND NUTS SHALL BE FLUOROCARBON COATED (BLUE).
- 3) VALVE SHALL BE WRAPPED WITH 6 MIL. THICK POLYETHYLENE 2' BEYOND END OF VALVE.
- 4) REFER TO MATERIAL LIST, W-03.

GATE VALVE DETAIL

N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS GATE VALVE DETAIL
06/2017	ADDED SAND OPTION	
		DRAWING W-10



NOTES:

- 1) HYDRANT WEEP HOLES SHALL NOT BE PLUGGED UNLESS GROUNDWATER IS ENCOUNTERED WITHIN 7' OF FINISHED GRADE, OR AS ORDERED BY THE ENGINEER IF HYDRANT WEEP HOLES ARE PLUGGED, PAINT PUMPER CONNECTION CAP BLUE.
- 2) ALL FLANGES ON FIRE HYDRANT LEG TO BE MECHANICAL JOINT RESTRAINING TYPE OF FLANGES.
- 3) DIP FITTINGS AND VALVES SHALL BE WRAPPED WITH 6 MIL. THICK POLYETHYLENE 2' BEYOND END OF FITTING ON PVC PIPE TO INCLUDE HYDRANT BURY.
- 4) ALL BOLTS AND NUTS SHALL BE FLUOROCARBON COATED.
- 5) ORIENTATION AND EXACT LOCATION TO BE DETERMINED BY ENGINEER.
- 6) REFER TO MATERIAL LIST, W-03.
- 7) HYDRANTS SHALL BE FIELD PAINTED

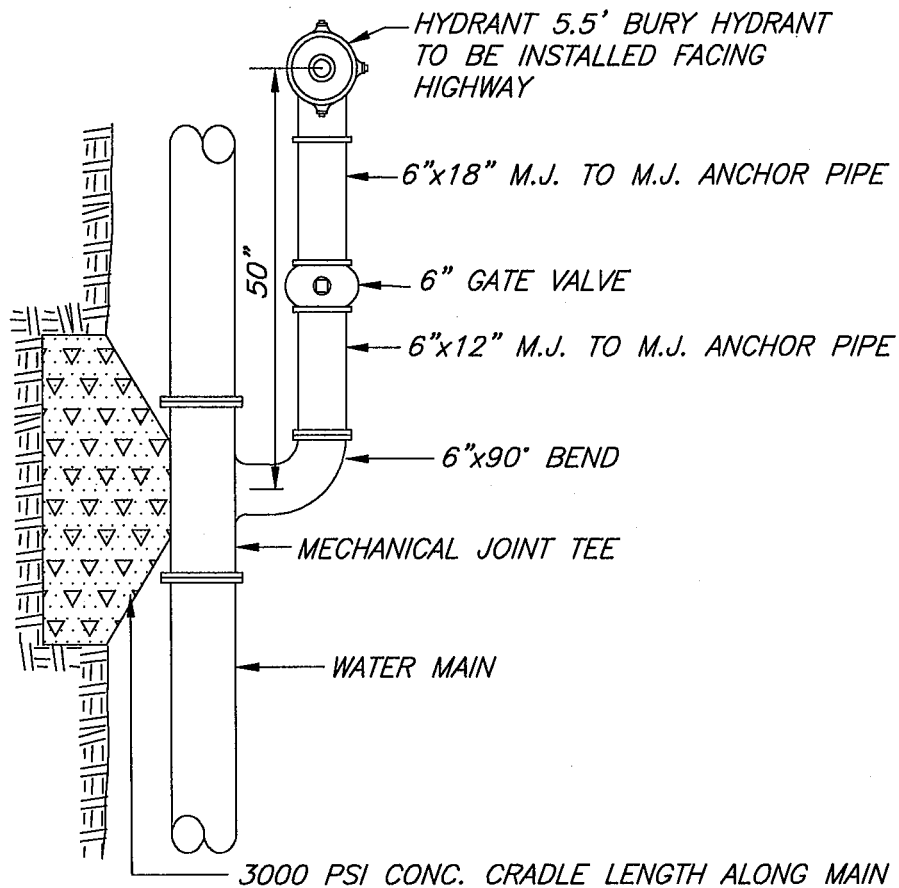
FIRE HYDRANT ASSEMBLY

N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS FIRE HYDRANT ASSEMBLY
06/2017	ADDED FIELD PAINT NOTE	
		DRAWING W-11A

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
06/2017	ADDED FIELD PAINT NOTE	FIRE HYDRANT ASSEMBLY WITH DITCH CROSSING
		DRAWING W-11B



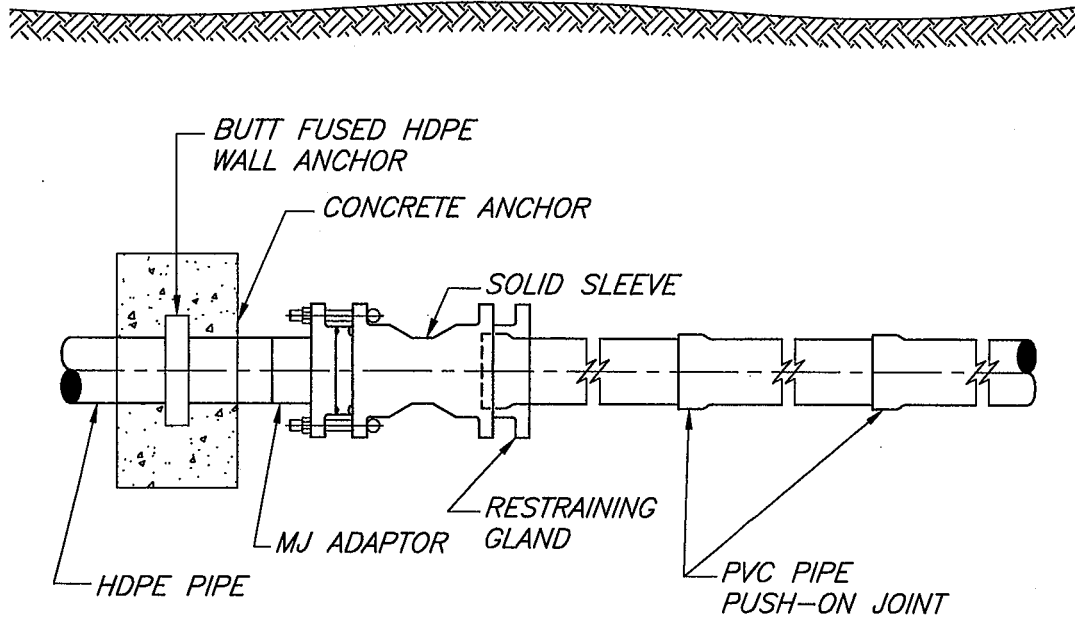
NOTES:

- 1) REFER TO DETAIL W-10A AND W-10B
FOR REMAINDER OF HYDRANT DETAILS.
- 2) REFER TO MATERIAL LIST, W-03.

**PARALLEL HYDRANT
ASSEMBLY DETAIL**
N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		PARALLEL HYDRANT ASSEMBLY DETAIL
		DRAWING W-11C



NOTES:

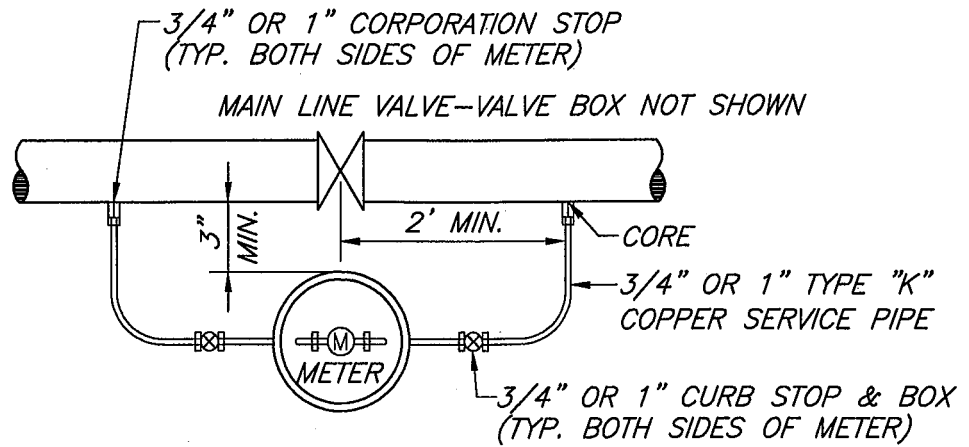
- 1) WRAP SOLID SLEEVE 6 MIL. THICK POLYETHYLENE 2 FEET BEYOND FITTINGS.
- 2) CONCRETE ANCHOR SHALL BE 4'X4'X3' (HxWxL) FOR UP TO 12" PIPE. CONCRETE ANCHOR SHALL BE DESIGNED BY PROFESSIONAL ENGINEER FOR PIPE LARGER THAN 12".
- 3) BACKFILL AND COMPACT IN 6" LIFTS. COMPACTION SHALL BE TO A MINIMUM OF 95%.
- 4) ALL BOLTS AND NUTS SHALL BE FLUOROCARBON COATED.
- 5) REFER TO MATERIAL LIST, W-03.

HDPE TO PVC CONNECTION FOR UP TO 12" PIPE

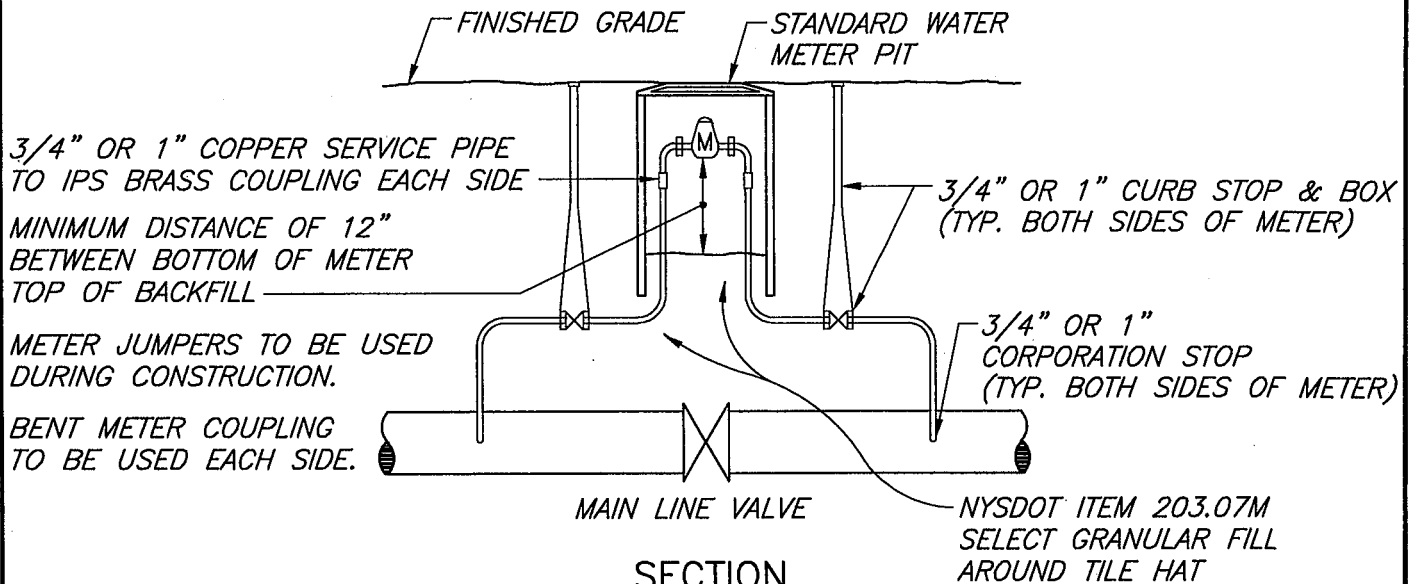
N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS HDPE TO PVC CONNECTION
		DRAWING W-12



PLAN



SECTION

NOTES:

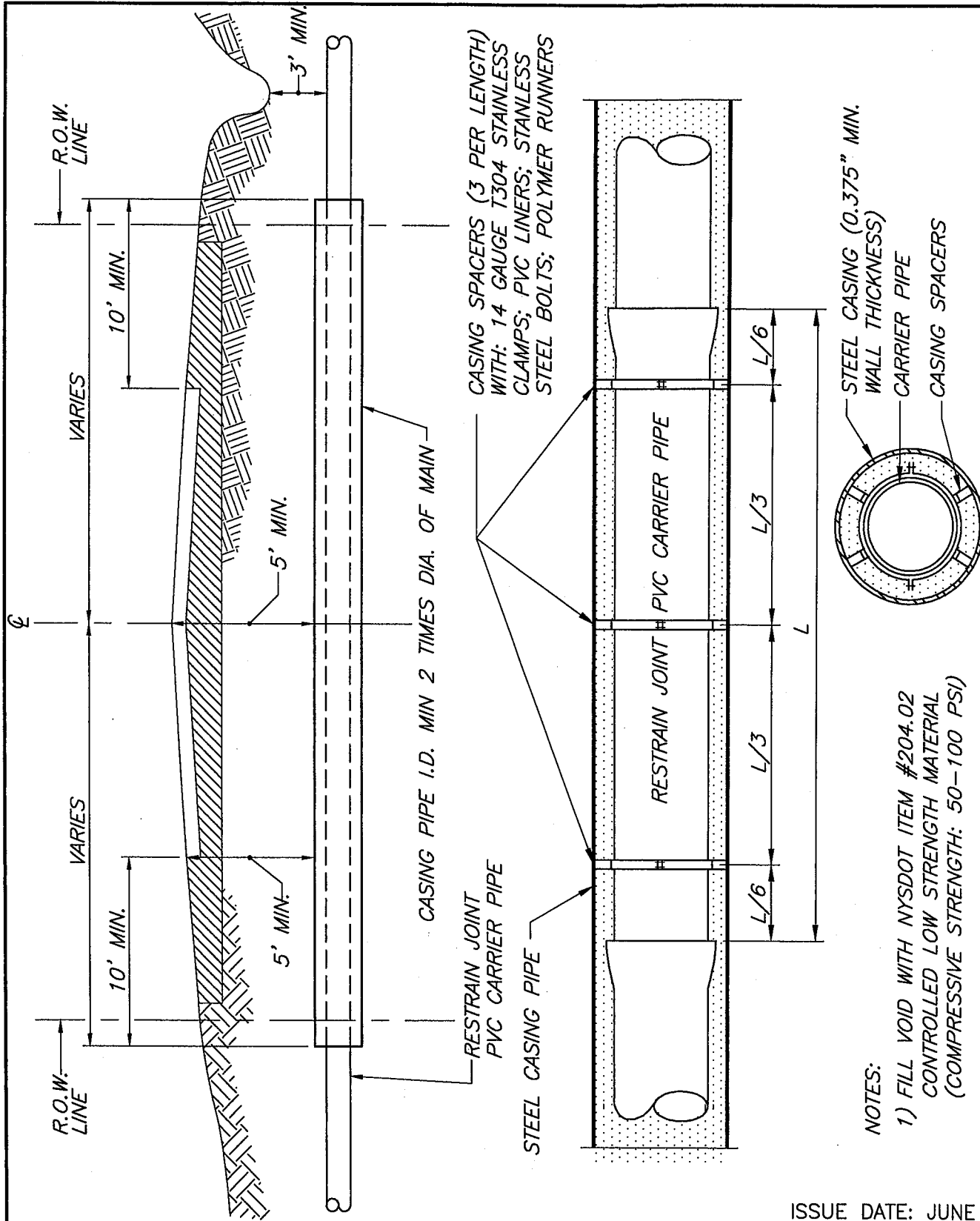
1. ASSEMBLY LOCATED ON EACH SIDE OF CREEK.
REFER TO PLANS FOR REQUIRED LOCATION.
2. REFER TO MATERIAL LIST, W-03.

CREEK CROSSING DETAIL

N.T.S.

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		CREEK CROSSING DETAIL
		DRAWING W-13



NOTES:

- 1) FILL VOID WITH NYSDOT ITEM #204.02 CONTROLLED LOW STRENGTH MATERIAL (COMPRESSIVE STRENGTH: 50-100 PSI)

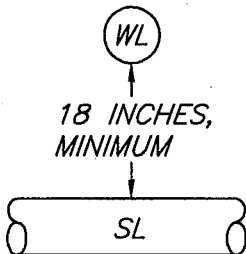
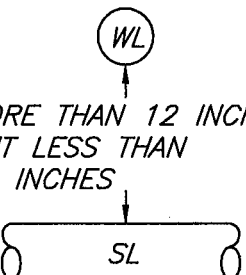
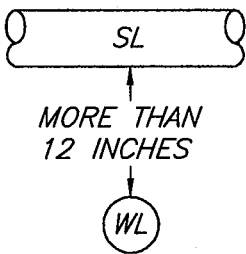
TYPICAL ROAD CROSSING WITH PVC CARRIER PIPE

N.T.S.

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		TYPICAL ROAD CROSSING WITH HDPE CARRIER PIPE
		DRAWING W-14A

WATER LINE-SEWER LINE CROSSING PROVISIONS

SITUATION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE		
II WATER LINE ABOVE SEWER LINE		<p>A) WATER LINE AND SEWER LINE SHALL BE ONE FULL LENGTH CENTERED AT CROSSING, WHEN POSSIBLE.</p> <p>B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR FULL LENGTH OF PIPE AT CROSSING.</p> <p style="text-align: center;">--OR--</p> <p>WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR ONE FULL LENGTH OF PIPE.</p>
III SEWER LINE ABOVE WATER LINE		<p>A) WATER LINE AND SEWER LINE SHALL BE ONE FULL LENGTH CENTERED AT CROSSING, WHEN POSSIBLE.</p> <p>B) SLEEVE SEWER LINE WITH STEEL CASING FOR ENTIRE LENGTH OF PIPE (EACH SIDE OF CROSSING).</p> <p>C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH SECTION DETAIL THIS SHEET) FOR WATER LINE AND SEWER LINE FOR ENTIRE LENGTH OF PIPE EACH SIDE OF CROSSING.</p>

SANITARY SEWER/WATER MAIN CROSSING DETAIL

N.T.S.

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	<p style="text-align: center;">WATER DETAILS SANITARY SEWER/ WATER MAIN CROSSING DETAIL</p>
		DRAWING W-15

[illegible]

NOTE: PRECAST CONCRETE MANHOLE SECTION IS AN ALTERNATE ONLY

2" FLANGED COMPANION STRAIGHT THROUGH CONNECTIONS W/ GASKETS AND WASHERS

PRECAST CONC. FLAT SLAB TOP, STEEL REINFORCED TO CONFORM TO A.S.T.M C-76

R.O.W. OR PROPERTY LINE

CURB STOP AND BOX WITH CURB BOX BASE

SERVICE LINE

PVC WATER MAIN

PLAN VIEW

GRADE RINGS SHALL BE PRECAST CONCRETE

4' SQ. METER VAULT WITH STEPS

NOTE: PRECAST CONCRETE MANHOLE SECTION IS AN ALTERNATE ONLY

3' SECTION

2' SECTION

5" MIN.

BOTTOM SHALL BE FIRM UNDISTURBED EARTH

NOTES:

- 1) MORTAR TO BE PLACED BETWEEN SERVICE LINE AND WALL OF MANHOLE AFTER INSTALLATION OF SERVICE LINE AND WATER METER.
- 2) MANHOLE SECTIONS SHALL BE SET IN A FULL BED OF APPROVED MORTAR.
- 3) CONCRETE SUPPORT SHALL BE PLACED UNDER WATER METER AFTER INSTALLATION.
- 4) STAINLESS STEEL INSERTS SHALL BE USED AT ALL PE CONNECTIONS.
- 5) REFER TO MATERIAL LIST, W-03.

CROSS SECTION VIEW

TYPICAL VAULT FOR 2" WATER METER INSTALLATIONS

N.T.S.

CURB STOP SHUTOFF WITH CURB BOX AND CURB BOX BASE

4"Ø HOLE

2" WATER METER

CURB STOPS (TYP.)

VAULT TO HAVE MIN. OF 1 FT. SETBACK FROM ROAD R.O.W. OR EASEMENT LINE

CORPORATION STOP

STAINLESS STEEL SERVICE SADDLE

36" FRAME AND COVER - LABELED SANITARY SEWER

GRADE

GROUT

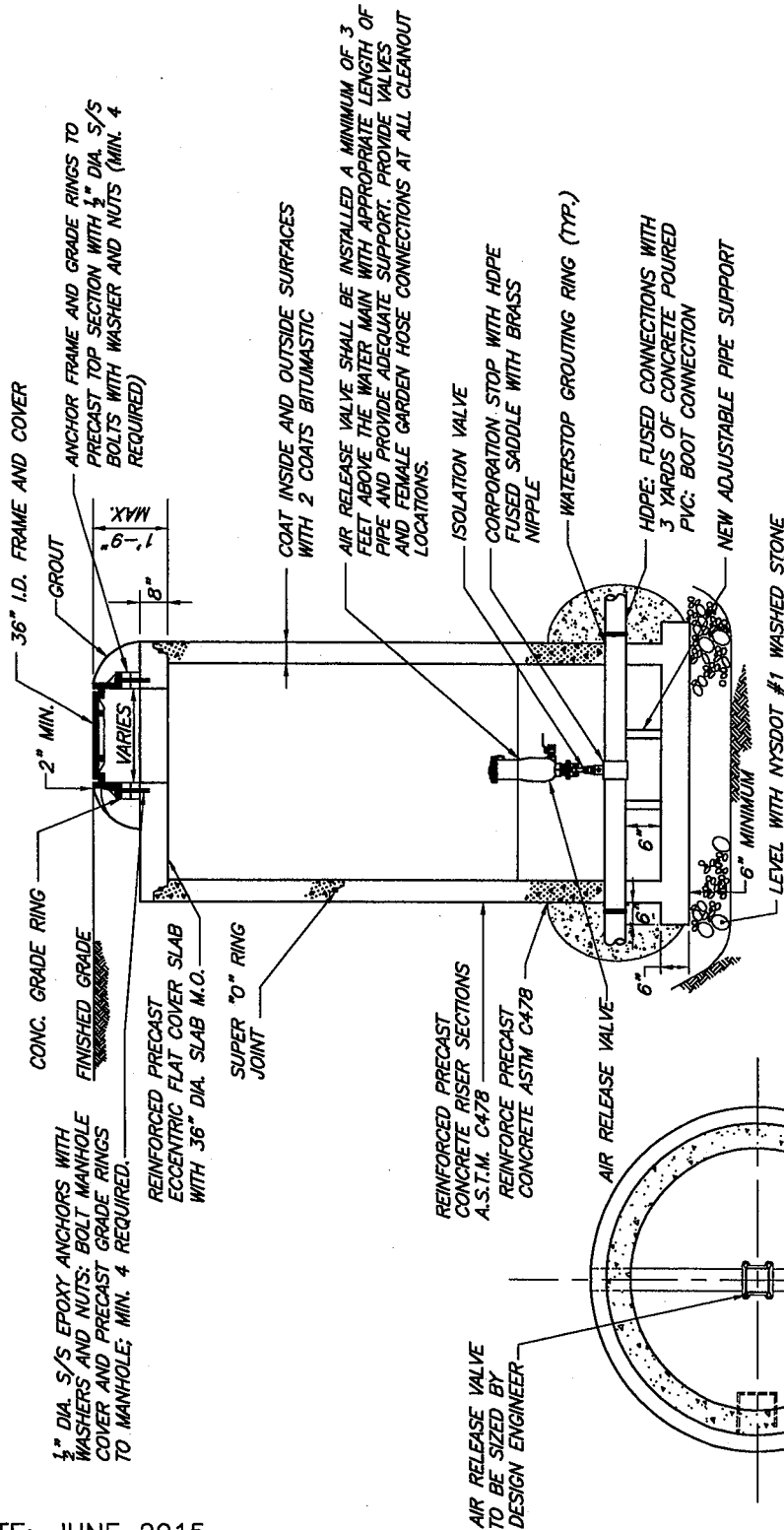
ANCHOR FRAME AND GRADE RINGS TO PRECAST TOP SECTION WITH 1/2" DIA. BOLTS WITH WASHER AND NUTS.

4'-6" MIN.

BELL TO BE FORMED IN 3,000 P.S.I. CONCRETE BASE (CAST IN PLACE)

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		TYPICAL VAULT FOR 2" WATER METER INSTALLATIONS
		DRAWING W-18



- NOTES:
- 1) SEE PROFILE SHEETS FOR DEPTHS.
 - 2) SEE PLAN SHEETS FOR ACTUAL WATER MAIN SIZES AND AIR RELEASE SIZE.
 - 3) REFER TO MATERIAL LIST, W-03.

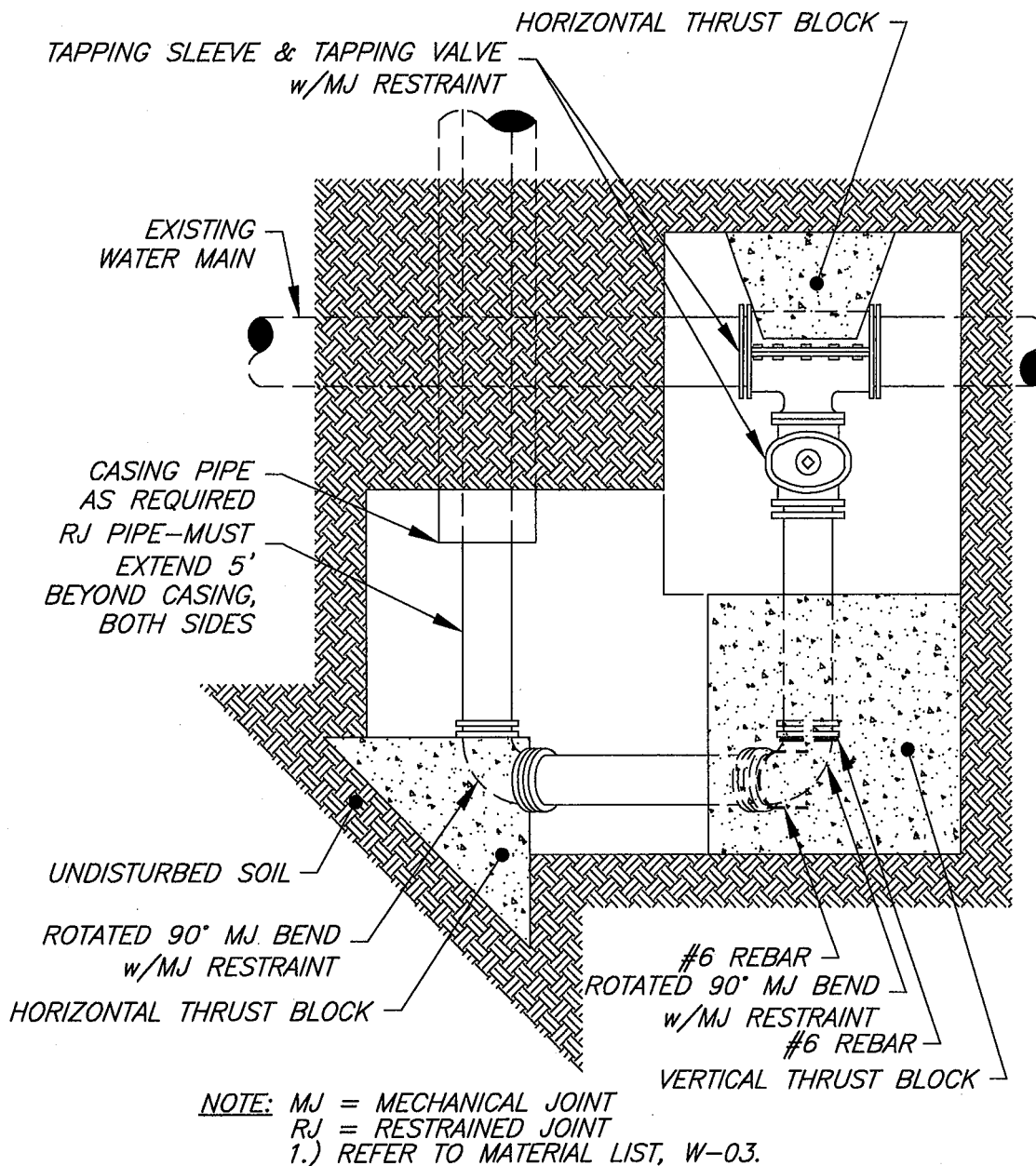
6' DIAMETER AIR RELEASE MANHOLE

N.T.S.

PLAN VIEW

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
03/2017	S/S BOLTS	
		TYPICAL AIR RELEASE DETAILS
		DRAWING W-19

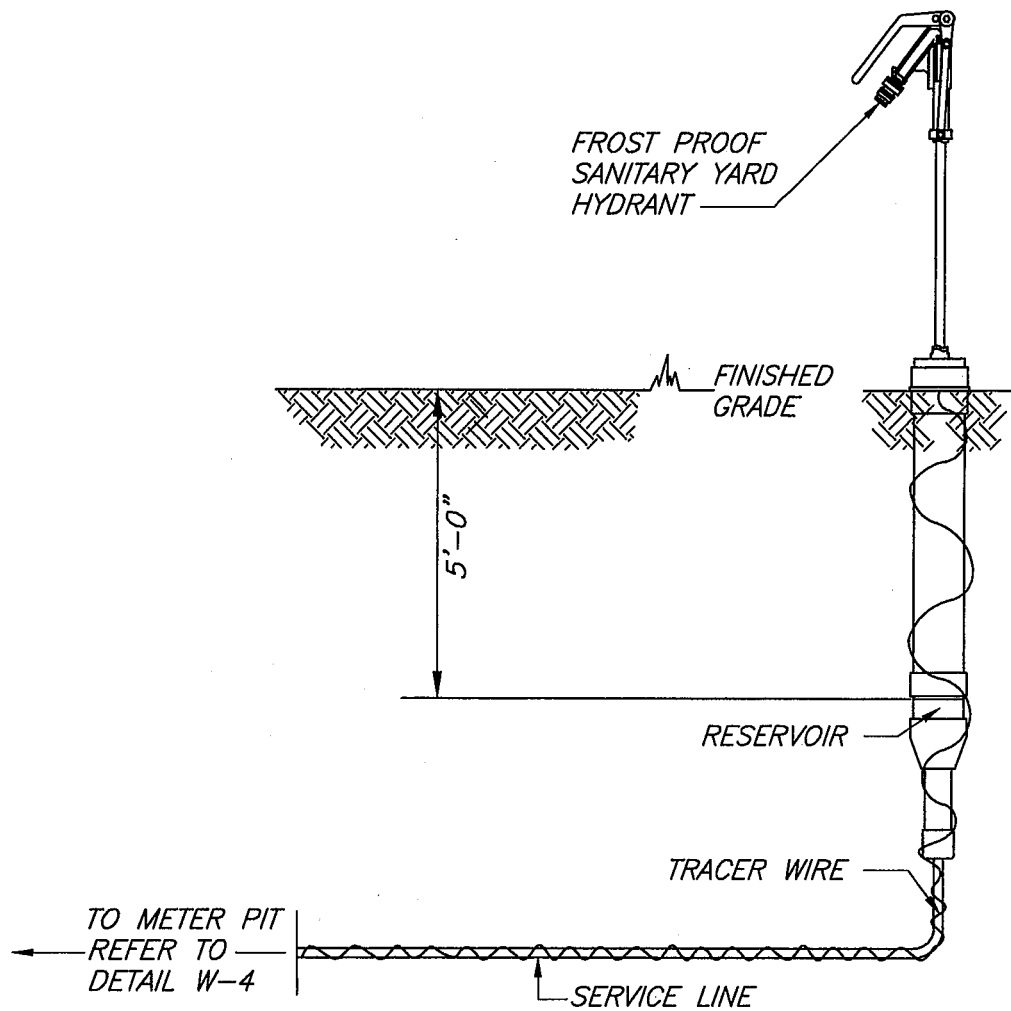


BACKSIDE TAP — PLAN VIEW

N.T.S.

ISSUE DATE: MAY 2018

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS
		BACKSIDE TAP
		DRAWING W-20



PUBLIC SANITARY YARD HYDRANT DETAIL

N.T.S.

NOTES:

- 1) STAINLESS STEEL INSERTS SHALL BE USED AT ALL HDPE CONNECTIONS.
- 2) TAPE SERVICE LINE AT 5' HDPE EXTENSION IF NOT CONNECTED AT TIME OF METER PIT INSTALLATION.
- 3) HDPE SERVICE LINE SHALL BE ENCLOSED WITH A SLEEVE PIPE COVER OR FINE SAND BEDDING AS APPROVED BY THE WATER DEPT.
- 4) TRACER WIRE SHALL BE PLACED ALONG ENTIRE HDPE SERVICE LINE AND BE ACCESSIBLE IN THE METER PIT.
- 5) ALL COMMERCIAL/INDUSTRIAL YARD HYDRANTS SHALL INCLUDE INTEGRAL BACKFLOW PREVENTION.
- 6) REFER TO MATERIAL LIST, W-03.

ISSUE DATE: JUNE 2015

REVISIONS		TOWN OF ELBA
DATE	COMMENTS	WATER DETAILS PUBLIC SANITARY YARD HYDRANT DETAIL
		DRAWING W-21

APPENDIX C

FEE SCHEDULE

1.0 Unit Definition

- 1.1 **Residential/Minor Commercial:** Each single-family residential dwelling shall be considered one unit and will typically have a 1-inch or less service line and a ¾ inch meter. Included in this category will be single family houses, mobile homes, and individual apartments. Multiple single-family dwellings on the same parcel of land will each be considered an individual unit. Any facility will be considered as a minimum of one unit.
- 1.2 **Industrial/Major Commercial:** Industrial and Major Commercial facilities will be assigned an equivalent number of units based on the following method: The average daily usage divided by 1,500 gpd = number of units. Average daily usage will be determined by prior year history – to be reviewed annually. The number of units for new accounts will be based on the 1st quarter of usage, and will be adjusted at the end of the 1st full year.
- 1.3 **Agricultural:** Agricultural facilities will be assigned an equivalent number of units based on the method outlined in the current Town of Elba Water Code.

2.0 Fees and Charges

2.1 Retail Service

- A. Residential/ Commercial – Billed Quarterly
- Base charge per Unit (see Unit Definition for Residential and Commercial Use) \$ 0.00
 - Charge per 1000 gallons \$ 5.10
- B. Agricultural Rate
- Base Charge per unit (See Unit Definition for Agricultural Use) \$ 0.00
 - Charge per 1000 gallons \$ 3.73
- C. Tank Truck (Bulk Usage)
- Charge per 1000 gallons \$ 4.70

2.2 Hydrants

- Hydrant installation (Material costs only, Labor costs covered by O&M) at cost

2.3 Service Connection Charge

- 1-inch tap & connection at cost
- All other sized tap & connection at cost
- Bored crossing at cost

Service connection charges include a maximum of fifty (50) feet of service line. Any Town installed service line installed past fifty (50) feet shall be billed at the Town's cost of construction, including cost of material and the going hourly rates for labor and equipment.

2.4 Field Service Charges

- A. Meter Test – Customer Request
- 1-inch Meter at cost
 - All Other Size Meters at cost
- B. Service Shut Off and/or Meter Removal
- Meter Removal (Seasonal) \$ 25.00
 - Meter Set no charge
 - Service On/Off \$ 25.00
- C. Material Cost
- 1-inch at cost
 - All Other Sizes at Owner's cost
- D. Replacement of damaged Meter at cost

