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Aqua Ohio Residential Service and Meter Requirements

April 2022

I. INTRODUCTION

- A. The purpose of this document is to provide clear, concise information regarding water service lines and meters within Aqua Ohio service areas. Please do not hesitate to contact our Field Operations staff in your area if you have questions or need additional information.

II. TYPES OF WATER SERVICE

- A. Aqua Ohio provides both domestic and fire water services to single-family premises, multi-family premises, commercial premises and industrial premises (single parcel or lot).
- B. An individual service line and meter must be installed for each type of service on each premises.
- C. Each water service line must originate at a water distribution main owned by Aqua Ohio, and the water main must front the parcel for which service is requested, extending at least to:
 - 1) the parcel midpoint, or
 - 2) the mid-point of the farthest structure receiving service.
- D. Corner parcels or parcels that are adjacent to more than one street will receive service when an Aqua water main extends across the entire frontage. When a water main extends along the side yard of a corner parcel, water service may be installed under the following conditions:
 - 1) the water main extends along the entire side lot line, and
- E. Each water service line may serve only one premises on a single parcel or lot unless Aqua Ohio and an Applicant enter into a special agreement for service.
- F. Special agreements may be permitted under the following circumstances at the discretion of Aqua Ohio:
 - 1) Special agreements may permit the use of a combined domestic and fire service line at a commercial or industrial premises:
 - a) when the fire service provides water for a closed fire system and
 - b) the required fire meter size is less than 2 inches in diameter.
 - 2) Special agreements may permit multi-premises commercial or industrial developments on private property:
 - a) when a water main is extended within the property to provide water service to each Premises, and
 - b) when Aqua is granted ownership of the water main and a 20-foot easement, when suitable location is available for the water main.
- G. Aqua Ohio may require submission of plans for new or replacement water service and reserves the right to approve or change proposed water service connection plans when necessary to meet Aqua standards.

III. HOW TO OBTAIN WATER SERVICE

- A. All persons requesting water service must apply to Aqua Ohio using forms supplied by Aqua Ohio. A sample form is attached in APPENDIX A.
- B. The applicant for water service must be the water customer regardless of the ownership of the units for which application is being made.
- C. Applications for water service must be made as follows:
 - 1) when new water service is requested,
 - 2) when a change of occupancy occurs at a premises already receiving water service, and
 - 3) when temporary water service is requested.
- D. Each application must include the address for which application is being made and the address of billing location.
- E. Each application for water service must state the uses for which water service is being requested.
- F. A separate application is required for each type of water service line and meter.
- G. A Cross Connection Control Program form must be filled out
- H. If coming off a well, a Well abandonment form must be supplied
- I. When there is no water main fronting the premises for which application is being made, the applicant must first enter into a water main extension agreement with Aqua.

IV. AQUA WATER SERVICE LINES

- A. General
 - 1) The Aqua Ohio water service line is that portion of the water service line between the water distribution main up to and including the curb stop, meter pit or meter vault located at or near the premises property line. The Aqua Ohio water service line is maintained by Aqua Ohio at its own cost.
 - 2) No fixture or branch connections are permitted in a water service line between the water distribution main and the water meter.
 - 3) Domestic water service connections require installation of a curb stop or gate valve for Aqua Ohio exclusive use.
 - 4) An existing Aqua Ohio water service line may be reused for a new owner if the service line is in good condition and the Aqua Service Line will provide adequate service to the premise. Otherwise a new Aqua Ohio water service line should be installed.
 - 5) If a proposed Aqua Ohio water service line is to be installed where any portion of the line must pass through property not owned by the Applicant or is subject to a third-party easement or lease, the Applicant is responsible for acquiring a permanent recorded easement on that property.
- B. Single-family Residential Water Service
 - 1) Aqua Ohio will install single-family domestic water service connections on its water distribution mains.

- 2) Aqua Ohio will provide curb stops and boxes and meter pits for single-family residential water services.
- 3) The Aqua Ohio water service line may be installed at the expense of the Applicant.
- 4) Aqua Ohio reserves the right to postpone installation of water service lines after November 1 each year until the following April 1 unless the applicant pays in advance or agrees to pay costs that may reasonably be attributable to adverse weather and soil conditions existing between these dates. This provision would limit these costs to actual out-of-pocket expenses related to installing the water service.

V. CUSTOMER OWNED WATER SERVICE LINES

A. General

- 1) The Customer water service line is that portion of the water service line from the Aqua Ohio water service line to the structure or premises being served.
- 2) No fixture or branch connections are permitted in a water service line between the water distribution main and the water meter.
- 3) The Customer is responsible for installing, maintaining, and repairing the Customer water service line using materials and in a manner acceptable to Aqua Ohio.
- 4) The Customer’s water service line and all connections and fixtures attached to it are subject to inspection by Aqua Ohio before the Customer service line is backfilled and before water service is initiated or re-initiated.
- 5) Aqua Ohio reserves the right to request additional information on specific installations.

VI. SPECIFICATIONS FOR WATER SERVICE LINE MATERIALS

A. Water service lines 2-inches in diameter and smaller:

- 1) Type K copper complying with ASTM B88, Standard Specification for Seamless Copper Water Tube.
- 2) HDPE SDR 9 complying with
 - a) AWWA C901, Polyethylene (PE) Pressure Pipe and Tubing, ½ In. Through 3 In. for Water Service
 - b) NSF 61, Drinking Water System Components – Health Effects
 - c) 12-gauge copper tracer wire and marking tape must be installed in the trench above the HDPE service line

Location	Approve service line material
Ashtabula, Franklin, Massillon, Mentor, Portage, Struthers	Copper
Marion, Tiffin	Copper or HDPE

B. Valves and Fittings 2-inches in diameter and smaller:

- 1) AWWA C800, Underground Service Line Valves and Fittings
 - a) curb stops

- b) curb boxes
- c) corporation stops
- 2) Oval flanges: companion flanges for 1 ½-in. and 2-in. meters, made of bronze and drilled, faced, and tapped in conformance with ASME B1.20.1. Flange dimensions shall conform to AWWA C700.
- 3) NSF 61, Drinking Water System Components – Health Effects
- 4) NSF 372, Drinking Water System Components – Lead Content

VII. SPECIFICATIONS FOR WATER SERVICE LINE INSTALLATION

- A. Water service lines must be laid at a depth of not less than 4 feet 6 inches nor more than 5 feet below finished ground level.
- B. Aqua Ohio recommends that waterlines be laid at 5 feet below finished grade in the Mentor and Ashtabula Divisions.
- C. Customer water service lines shall not be smaller than those shown in the following table:

Minimum nominal size	Location
3/4 inches in diameter	Marion, Tiffin, Mansfield, Portage, Franklin,
1 inch in diameter	Mentor, Struthers, Massillon, Ashtabula

- D. The Customer water service line may be laid as follows:
 - 1) in a trench separate from a sewer service lateral or
 - 2) on a ledge on either side of but above the crown of a sewer lateral. The ledge shall be at least 6 inches wide and provide solid firm soil bedding for the entire length of the water service line.
- E. The water service line trench shall be left open and the pipe uncovered until it is inspected and approved by an Aqua Ohio representative.
- F. Aqua Ohio recommends that the Customer water service line materials and installation match Aqua Ohio water service line materials and installation.
- G. The Customer must provide fittings necessary to connect their water service line to the Aqua Ohio water service line. In the case of residential meter pits the connection shall be 1-inch CTS (compression) in the Ashtabula, Stark, Mentor and Franklin Divisions and 1-inch IPS in Marion, Tiffin, Mansfield, Portage Divisions.
- H. Horizontal bends are prohibited in the Aqua Ohio water service line.
- I. Residential service connections to water mains made on the same side of the water main must be separated by a minimum distance of 3 feet along the water main. Residential service connections to water mains made on opposite sides of the water main must be separated by a minimum distance of 24 inches. A minimum distance of 3 feet is required between residential service connections and main line pipe joints, fittings and valves.

VIII. WATER METERS

- A. General
 - 1) All meters shall be sized by Aqua Ohio based on demands provided by the applicant.
 - 2) All meters shall be provided by Aqua Ohio
 - 3) Installed water meters are the property of Aqua Ohio. They may not be moved, altered, or tampered with in any way.
 - 4) Aqua will install the meter and turn on water service after the customer plumbing is installed, tested and inspected.
 - 5) AN RD device is required to be installed when the meter is installed. IT is preferred that his be installed on the outside of the home approximately 4' above ground level. It can be on the side of the home.
- B. Aqua will provide, install and maintain meters and meter pits for settings of single meters up to and including 1 ½ inch in diameter.
- C. Aqua will provide technical specifications for meter pits for meters 2 inches and larger in diameter.
- D. Meters located in buildings shall be located in the basement or on the first floor as near as possible to the point of entrance of the water service line:
 - 1) In a clean, dry, safe space not subject to freezing, and
 - 2) Where easily accessible for installation, disconnection and reading.
 - 3) All meters shall be installed horizontally 2-3' above the floor
 - 4) The applicant shall provide a meter setting with valves on both sides of the meter.
- E. Tees, valves, and meter settings must be supported by adjustable pipe supports and remain supported and stable with and without a meter or meter spacer in place.
- F. Meters installed in an underground pit or vault shall be located in a convenient and readily accessible location at or near the curb or customer property line, outside of sidewalks and paved areas and in areas not subject to vehicular loading and shall be protected from freezing.
- G. Special agreements may provide for metering of water service through one or more master meters to two or more residential units per meter:
 - 1) when a building or combination of buildings on a single parcel has two or more rental units and each unit is designed for single-family occupancy as a residence.
 - 2) when single building housing two or more units on a single parcel has units under different ownership, each of which is designed or used for single-family occupancy as a residence.
 - 3) when a mobile home, trailer park, or court on a single parcel contains pads, lots, or locations for two or more mobile homes or trailer units, each unit of which is under different ownership and is designed or used for single-family occupancy as a residence

Location	Meters in residential meter pits or located inside the home
Ashtabula, Mansfield, Marion, Mentor, Tiffin	Meter pits
Massillon, Portage, Struthers	Located inside the home

IX. BACKFLOW DEVICES

- A. Aqua Ohio has an established Cross Connection Control Program to ensure the safety of our water supply for our customers. The Cross-Connection Control Program applies to all premises served by the public water systems owned and operated by Aqua Ohio. A copy of the Cross-Connection Control Program is available on request.
- B. Aqua will require backflow protection for residential water services when any of the following conditions exist:
 - 1) The premise has an auxiliary water supply, such as a well;
 - 2) The premise has an underground irrigation system;
 - 3) The premise has a private fire protection system that contains antifreeze, fire retardant or other chemicals and/or has a connection whereby water can be pumped into the system from any other source,
 - 4) The premises has a booster pump
 - 5) The Premise has a decorative pond with an automatic filling device
 - 6) The premise has a yard hydrant
 - 7) Or the premise has a reported history of cross connections.

X. PRESSURE REDUCING VALVES

- A. A pressure reducing valve (PRV) is Recommended by the Ohio Building Code where the Aqua water system pressure exceeds 80 psi on domestic water services, 100 psi on residential fire services, 150 psi on non-residential fire services, and at the discretion of Aqua where water pressure may exceed these limitations.
- B. Pressure reducing valves shall be selected and installed, owned and maintained by the customer on the outlet side of the water meter as recommended by the valve manufacturer.

GLOSSARY

Adjacent buildings: A group of 2 or more buildings on the same lot or parcel of land not separated by any street, avenue, thoroughfare, alley or other public right-of-way, except where the customer owns and /or leases a lot or parcel of land on both sides of a street, avenue, thoroughfare, alley or public right -of-way which lots or parcels of land otherwise would be contiguous, such building thereon shall be considered adjacent.

Applicant: A person, firm, corporation, or governmental unit that applies for water and/or sewer service from Aqua Ohio.

Application: An oral or written request to Aqua Ohio for water and/or sewer service. An application for the installation of a customer service line must be in writing on forms provided by Aqua Ohio.

AWWA: American Water Works Association

Backflow Preventer: A device designed to prevent a potential backflow of contaminants from the customer's activities or property into the Aqua Ohio water distribution system.

Check valve: A device designed to allow the flow of water in only one direction.

Company: Aqua Ohio, Inc.

Cost: The expenditure by the Company for labor, materials, engineering, supervision, motor vehicles and tools, and any other expenditures incidental thereto to the extent that any or all of the items are directly assignable to the particular situation involved, except when modified by the word "estimated," in which case it shall be the estimated expenditure for such item.

Customer: A person who enters an agreement with Aqua Ohio to receive water service.

Domestic Water Service: Water service, for which water is supplied directly by Aqua Ohio for uses other than fire suppression, including residential, commercial and industrial customers.

Main Extension: An extension, including fire hydrants if fire protection is provided by Aqua, from the nearest existing adequate main along a route determined in accordance with reasonable utility engineering practices to a point perpendicular to the most remote structure to be served fronting the Main Extension.

Meter: Aqua Ohio approved device, including associated remote registers, used to measure water passing through a customer service line.

Person: An individual, corporation, partnership, association, organization, or other entity capable under the law of suing or being sued, including any public body; includes the plural as well as the singular. Words of any gender include all genders.

Premises: Each of the following, together with the single and combined lot or parcel of land upon which it is located, or such portion of such land as is used or held for use with it, constitutes a Premises:

- A. One building designed or used for single-family occupancy as a residence.
- B. One building designed or used for single-family occupancy both as a residence and for professional or business purposes when the resident conducts the business or profession. When not so conducted, the portion occupied by the resident constitutes the Premises and each separate portion occupied by other persons for professional or business purposes constitutes a separate Premises.
- C. A combination of adjacent buildings, one portion designed or used for single-family occupancy as a residence and the other portions designed for professional or business purposes all of which are occupied by the resident. When not so occupied, the portion designed or used for single-family occupancy constitutes one Premises and each separate portion designed or used for professional or business purposes and occupied by other persons constitutes a separate Premises.
- D. One building designed or used by one person for professional or business purposes.
- E. A combination of adjacent buildings designed or used by one person for professional or business purposes.
- F. Each combination of rooms designed or used for single-family occupancy as a residence within a multiple-unit building.
- G. Each room or combination of rooms designed or used by one person for professional or business purposes within a house or within a multiple-unit building.
- H. Each parcel of land that requires water service.
- I. Each parcel or mobile home unit where the unit is not resting primarily on its wheels.
- J. Any building not otherwise defined as a premises in any other definition of premises contained herein.

Pressure Reducing Valve: A device designed to reduce water pressure within the Customer's building below the pressure that exists in the Aqua water distribution system.

Pressure Relief Valve: A device designed to relieve pressure on the internal plumbing system on the Customer's property.

Public Fire Protection Service: Water service to fire hydrants that are operated and maintained by Aqua.

Service Lines:

- C. Aqua's water service line is the portion of the service line between the water distribution main up to and including the curb stop, meter pit, or meter vault at or near the property, right-of-way, or easement line maintained at the cost of Aqua. For meters in homes where there is no curb stop, meter pit, or meter vault, Aqua owns and maintains the service line up to the customer's property line or right-of-way line.

- D. The customer's water service line is the portion of the service line from the company's service line to the structure or premises that is supplied, installed, and maintained at the cost of the customer.

Special Agreement: A reasonable arrangement between Aqua and one or more of its customers.

Temporary Service: Water service that is not continuously used through the year, such as for building or construction purposes, street paving, cleaning property, filling tanks, or other uses of this kind.

Water Service Connection: The connection of the Aqua water service line with the customer's water service line at or near the property line, which connection enables the customer to receive water service.

APPENDIX A



WATER SERVICE APPLICANT AND AGREEMENT

DIVISION _____

DATE _____

PERMIT
NUMBER**SC**

APPLICANT(S) FOR SERVICE _____

NAME(S) OF PARTY TO BE BILLED _____

ADDRESS _____

BILLING ADDRESS _____

CITY, STATE, and ZIP CODE _____

CITY, STATE, and ZIP CODE _____

LOT NO. _____

ALLOTMENT _____

SERVICE ADDRESS _____

LOCATION	SECT. UNIT	BASE	SUFFIX	DEVELOPER #	CONTRACT #	REFUND #
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
						REFUND % SPLIT

SUBSEQUENT CONNECTION PER-FOOT FRONTAGE CHARGE \$ _____

RELATED FACILITIES CONTRIBUTION \$ _____

CAPITAL INVESTMENT FEE (if applicable) \$ _____

TOTAL DUE BY CUSTOMER \$ _____

I request the installation of a _____ (size) Company Service Line and (if applicable) a _____ (size) meter for the above noted premises.

The Applicant agrees to pay the service bills promptly as rendered and to observe the "General Rules and Regulations" of the Company.

In the event that the Applicant for service shall be entitled to refunds pursuant to Aqua's tariff and the regulations of the Public Utilities Commission of Ohio (PUCO), each such refund shall be made by check payable to the Applicant and mailed to the address set forth in this application. The Applicant hereby assigns his or her right to receive any such person or persons to whom Applicant shall in the future transfer and convey title to the real property bearing the address of the Applicant set forth in this Application and Aqua shall be entitled to make refund payments thereafter to such person or persons upon application being made for water service by such person or persons. Thereafter, Aqua shall have no further obligation to make payment of any such refunds to the Applicant. Applicant hereby acknowledges receipt from Aqua Ohio, Inc. a copy of the currently effective Ohio Administrative Code sections of the PUCO setting forth rules for Main Extensions, Subsequent Connection, and Tap-Ins.

Signing of this form by a customer for water or sewer service shall in no case be deemed to constitute a waiver by the customer of any rights or privileges granted or guaranteed to him/her by the laws or constitution of the State of Ohio or by those of the United States.

SIGNED _____ (Applicant) PREPARED BY _____

CHECK APPROPRIATE BLOCKS

- | | | |
|---|--|-------------------------------------|
| <input type="checkbox"/> SINGLE RESIDENCE | <input type="checkbox"/> MULTI-UNIT | <input type="checkbox"/> INSPECTED |
| <input type="checkbox"/> DOUBLE RESIDENCE | <input type="checkbox"/> LONG SIDE | <input type="checkbox"/> INDUSTRIAL |
| <input type="checkbox"/> APARTMENT | <input type="checkbox"/> SHORT SIDE | <input type="checkbox"/> METER PIT |
| <input type="checkbox"/> COMMERCIAL | <input type="checkbox"/> CURB CONNECTION | <input type="checkbox"/> OTHER |

STREET OR HIGHWAY PERMIT RECEIVED
 CITY TOWNSHIP MAKE _____ COUNTY NO. _____ STATE

REMARKS _____

INSTALLATION COST

MATERIAL	Quan.	Size	Item	Unit Cost	Amount		
			Corporation Stop				
			Saddle				
	Ft.		Copper Service Pipe				
	Ft.		Trench (main to property line)				
			Curb Stop				
			Curb Box				
			Couplings				
			Copper Horn				
			Meter				
			Rod				
Total						A.	

LABOR	Employee	Hrs.	Rate	Amount
Total				B.
Fringe Benefits	%	X		(Labor Dollars) C.
Equipment	Rate Per Hr.	Hrs.		
Transportation	\$	X		
Backhoe	\$	X		
Total				D.
Overhead	\$	(Rate)	X	(Man Hrs.) E.
TOTAL COST (A. B. C. D. E.)				

APPENDIX B

Aqua Ohio Cross Connection Field Service Survey

FILL IN SECTION BELOW:

Customer Name: _____ Contact Phone No.(s) _____

Premise Address: _____ Contact Person: _____ Home Phone Number: _____

Mailing Address: _____ Work Phone Number: _____ Email Address: _____

Cell Phone Number: _____

Customer Signature: _____ Date: _____

By signing this survey, I agree that all information given is true and correct. I understand this information will be evaluated by the Cross Connection Department and any backflow device that shall be required may be waived based on the degree of hazard determined by the Cross Connection Department of Aqua Ohio. It is my responsibility to notify Aqua Ohio, in advance, of any changes to be made to my internal water system. I understand that any such changes could void said waiver and would be required to install a backflow device based on new degree of hazard.

	Yes	No	Manufacturer	Size	Model	Isolation or Containment	Serial Number
Existing Backflow Preventers Installed							
Special Plumbing or Activity Present on Customer's Premises	YES	NO					
R			New Premise				
E			Underground sprinkler system				
S			Water treatment system (e.g., water softener)				
I			Residential fire sprinkler system				
D			Other Auxiliary water supply				
E			<input type="checkbox"/> Well <input type="checkbox"/> Cistern <input type="checkbox"/> Tower <input type="checkbox"/> Rainwater Harvesting <input type="checkbox"/> Interconnected <input type="checkbox"/> 4 - way swing <input type="checkbox"/> Reservoir <input type="checkbox"/> Reclaimed Water				
N			<input type="checkbox"/> Swimming pool <input type="checkbox"/> Spa <input type="checkbox"/> Whirlpool <input type="checkbox"/> Jacuzzi <input type="checkbox"/> Boiler Hear				
T			<input type="checkbox"/> Greenhouse				
I			Decorative pond				
A			Photo lab or dark room				
L			Animal watering troughs				
			Home-based business <input type="checkbox"/> Pet Groomers <input type="checkbox"/> Tanning & Nails <input type="checkbox"/> Bakery or Candy				
YES			Type of Facility <input type="checkbox"/> Hospital <input type="checkbox"/> Clinic <input type="checkbox"/> Doctors. Office <input type="checkbox"/> Dentist Office <input type="checkbox"/> Medical <input type="checkbox"/> Nursing Home / Senior Center <input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Fire Protection				
NO			Does facility ONLY have toilets, sinks or showers?				
			Other Auxiliary water supply				
YES			Are there chemicals used at premise?				
NO			<input type="checkbox"/> Transportation & Public Utilities <input type="checkbox"/> Airport <input type="checkbox"/> Electric Sub Station <input type="checkbox"/> Boilers <input type="checkbox"/> Air Condition <input type="checkbox"/> Sanitary Svc.s <input type="checkbox"/> Post Office <input type="checkbox"/> Water Supplier <input type="checkbox"/> Gas Sub Station <input type="checkbox"/> Water Supplier				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
YES			Are there chemicals used at premise?				
NO			<input type="checkbox"/> Detergent fed dishwashers <input type="checkbox"/> Boilers <input type="checkbox"/> Air Condition <input type="checkbox"/> Carwash <input type="checkbox"/> Church <input type="checkbox"/> Funeral Home <input type="checkbox"/> Banks / Financial Offices <input type="checkbox"/> Other - please list:				
			Services <input type="checkbox"/> Hotel / Lodging <input type="checkbox"/> Beauty / Barber Shops <input type="checkbox"/> Portrait Studio <input type="checkbox"/> Department / General Merchandise Store <input type="checkbox"/> Furniture Store <input type="checkbox"/> Laundry / Dry Cleaners <input type="checkbox"/> Garden Center <input type="checkbox"/> Irrigation				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
			Does premise serve fountain drinks?				
			Are there chemicals used at premise? (i.e., detergent fed dishwashers, boilers, air condition units, inks, dyes etc.)				
			Churches - Water used for Baptismal - If yes - Is it water fed from <input type="checkbox"/> Top <input type="checkbox"/> Bottom				
			Funeral Homes - are embalming procedures performed here? <input type="checkbox"/> Yes <input type="checkbox"/> No				
			Car Wash - Recycled wash or rinse reservoir <input type="checkbox"/> Yes <input type="checkbox"/> No				
YES			Restaurant Type <input type="checkbox"/> Restaurant <input type="checkbox"/> Cafeteria <input type="checkbox"/> Food Processing <input type="checkbox"/> Other - please list:				
NO			<input type="checkbox"/> Irrigation <input type="checkbox"/> Fire Protection				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
			Are there chemicals used at premise? (i.e., detergent fed dishwashers, boilers, air condition units etc.)				

FILL IN SECTION BELOW:

Customer Name: _____ Contact Phone No.(s) _____

Premise Address: _____ Contact Person: _____ Home Phone Number: _____

Mailing Address: _____ Work Phone Number: _____ Email Address: _____

Cell Phone Number: _____

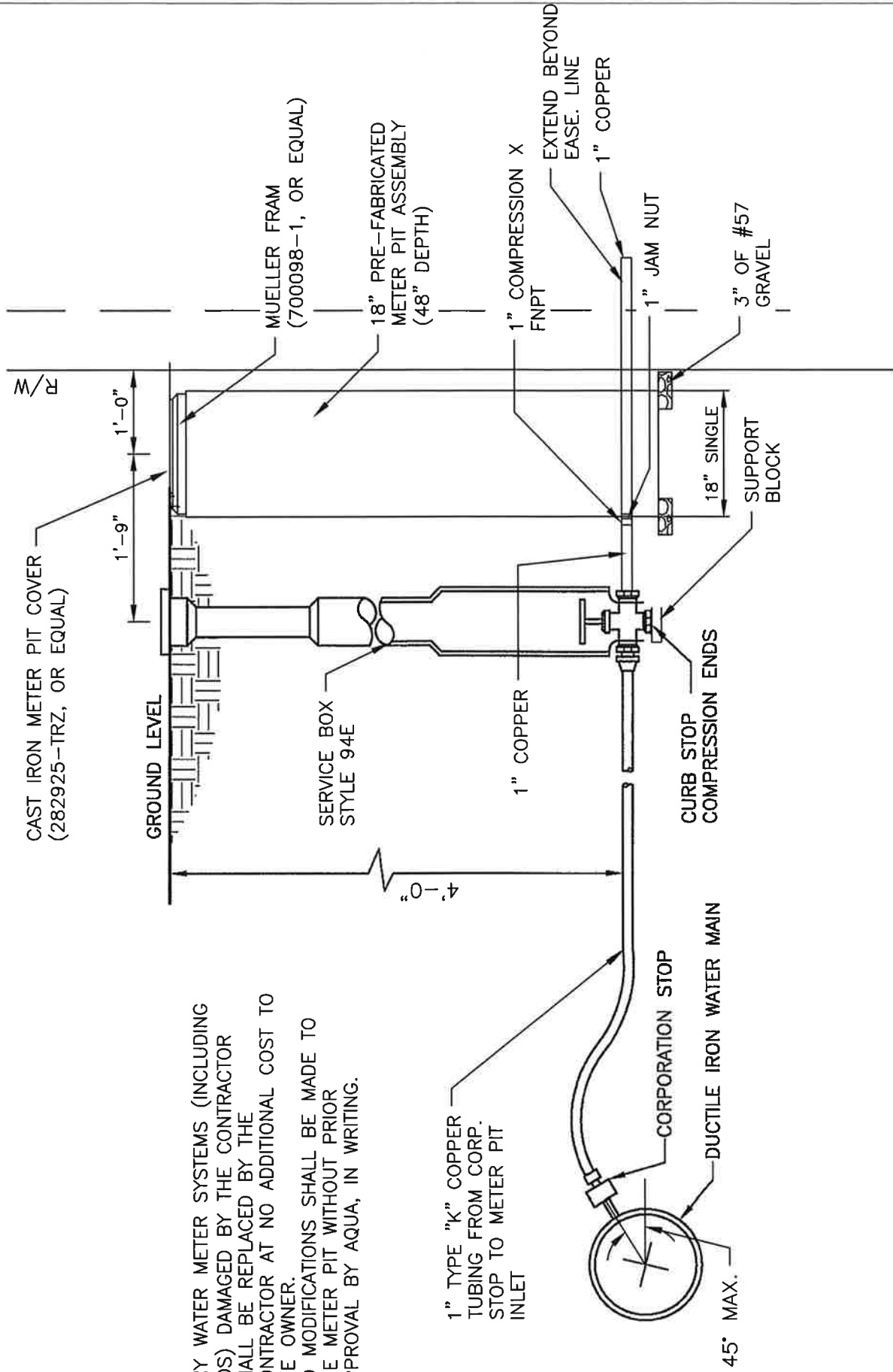
Customer Signature: _____ Date: _____

By signing this survey, I agree that all information given is true and correct. I understand this information will be evaluated by the Cross Connection Department and any backflow device that shall be required may be waived based on the degree of hazard determined by the Cross Connection Department of Aqua Ohio. It is my responsibility to notify Aqua Ohio, in advance, of any changes to be made to my internal water system. I understand that any such changes could void said waiver and would be required to install a backflow device based on new degree of hazard.

	Yes	No	Manufacturer	Size	Model	Isolation or Containment	Serial Number
Existing Backflow Preventers Installed							
Special Plumbing or Activity Present on Customer's Premises	YES	NO					
R			New Premise				
E			Underground sprinkler system				
S			Water treatment system (e.g., water softener)				
I			Residential fire sprinkler system				
D			Other Auxiliary water supply				
E			<input type="checkbox"/> Well <input type="checkbox"/> Cistern <input type="checkbox"/> Tower <input type="checkbox"/> Rainwater Harvesting <input type="checkbox"/> Interconnected <input type="checkbox"/> 4 - way swing <input type="checkbox"/> Reservoir <input type="checkbox"/> Reclaimed Water				
N			<input type="checkbox"/> Swimming pool <input type="checkbox"/> Spa <input type="checkbox"/> Whirlpool <input type="checkbox"/> Jacuzzi <input type="checkbox"/> Boiler Hear				
T			<input type="checkbox"/> Greenhouse				
I			Decorative pond				
A			Photo lab or dark room				
L			Animal watering troughs				
			Home-based business <input type="checkbox"/> Pet Groomers <input type="checkbox"/> Tanning & Nails <input type="checkbox"/> Bakery or Candy				
YES			Type of Facility <input type="checkbox"/> Hospital <input type="checkbox"/> Clinic <input type="checkbox"/> Doctors. Office <input type="checkbox"/> Dentist Office <input type="checkbox"/> Medical <input type="checkbox"/> Nursing Home / Senior Center <input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Fire Protection				
NO			Does facility ONLY have toilets, sinks or showers?				
			Other Auxiliary water supply				
YES			Are there chemicals used at premise?				
NO			<input type="checkbox"/> Transportation & Public Utilities <input type="checkbox"/> Airport <input type="checkbox"/> Electric Sub Station <input type="checkbox"/> Boilers <input type="checkbox"/> Air Condition <input type="checkbox"/> Sanitary Svc.s <input type="checkbox"/> Post Office <input type="checkbox"/> Water Supplier <input type="checkbox"/> Gas Sub Station <input type="checkbox"/> Water Supplier				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
YES			Are there chemicals used at premise?				
NO			<input type="checkbox"/> Detergent fed dishwashers <input type="checkbox"/> Boilers <input type="checkbox"/> Air Condition <input type="checkbox"/> Carwash <input type="checkbox"/> Church <input type="checkbox"/> Funeral Home <input type="checkbox"/> Banks / Financial Offices <input type="checkbox"/> Other - please list:				
			Services <input type="checkbox"/> Hotel / Lodging <input type="checkbox"/> Beauty / Barber Shops <input type="checkbox"/> Portrait Studio <input type="checkbox"/> Department / General Merchandise Store <input type="checkbox"/> Furniture Store <input type="checkbox"/> Laundry / Dry Cleaners <input type="checkbox"/> Garden Center <input type="checkbox"/> Irrigation				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
			Does premise serve fountain drinks?				
			Are there chemicals used at premise? (i.e., detergent fed dishwashers, boilers, air condition units, inks, dyes etc.)				
			Churches - Water used for Baptismal - If yes - Is it water fed from <input type="checkbox"/> Top <input type="checkbox"/> Bottom				
			Funeral Homes - are embalming procedures performed here? <input type="checkbox"/> Yes <input type="checkbox"/> No				
			Car Wash - Recycled wash or rinse reservoir <input type="checkbox"/> Yes <input type="checkbox"/> No				
YES			Restaurant Type <input type="checkbox"/> Restaurant <input type="checkbox"/> Cafeteria <input type="checkbox"/> Food Processing <input type="checkbox"/> Other - please list:				
NO			<input type="checkbox"/> Irrigation <input type="checkbox"/> Fire Protection				
			Is water used for : <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation				
			Does facility ONLY have toilets, sinks or showers?				
			Are there chemicals used at premise? (i.e., detergent fed dishwashers, boilers, air condition units etc.)				

I N D U S T R I A L	YES	NO	Manufacturing	<input type="checkbox"/> Textile / Apparel <input type="checkbox"/> Wood/Lumber Products <input type="checkbox"/> Paper Products <input type="checkbox"/> Fabricated Metal Products <input type="checkbox"/> Plumbing/Heating <input type="checkbox"/> Machinery <input type="checkbox"/> Chemicals <input type="checkbox"/> Food & Kindred Products <input type="checkbox"/> Printing & Publishin <input type="checkbox"/> Petroleum / Coal Products <input type="checkbox"/> Stone / Clay / Glass <input type="checkbox"/> Rubber / Plastics <input type="checkbox"/> Domestic <input type="checkbox"/> Fire Protection <input type="checkbox"/> Irrigation Does facility ONLY have toilets, sinks or showers? Other Auxiliary water supply	<input type="checkbox"/> Other - please list:
	YES	NO	Fire Service	<input type="checkbox"/> Fire Hydrant only <input type="checkbox"/> Limited Sprinkler Only Are there chemicals used at premise? (i.e., boilers, air condition units etc.) Direct connect from the public water system ONLY (no pumps, tanks, reservoirs) Booster Pump <input type="checkbox"/> Elevated Storage Tank <input type="checkbox"/> Tanks are filled from public water system and is potable Has auxiliary water system dedicated to fire department use Is fire service interconnected with an auxiliary water system? Additives or antifreeze in use? Is fire service combined with potable domestic water, industrial water?	<input type="checkbox"/> Other - please list:
	Surveyed By (print name): _____ Date Surveyed: _____				
	Employee Signature: _____ Company Phone Number: _____				
	Type of hazard determined present: <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Severe				Inspected By: _____ <input type="checkbox"/> Supervisor:
	Backflow Device Requirement Waived? <input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Service Person (name please): _____
	Customer Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No				Next Notice Due Date: _____
	Date Notified _____ Notified by: <input type="checkbox"/> Phone <input type="checkbox"/> Mail <input type="checkbox"/> Fax				Date Entered: _____
	Date Survey sent to Customer _____				Signature: _____
	S E R V I C E	Cross Connection Department Use Only			

APPENDIX C



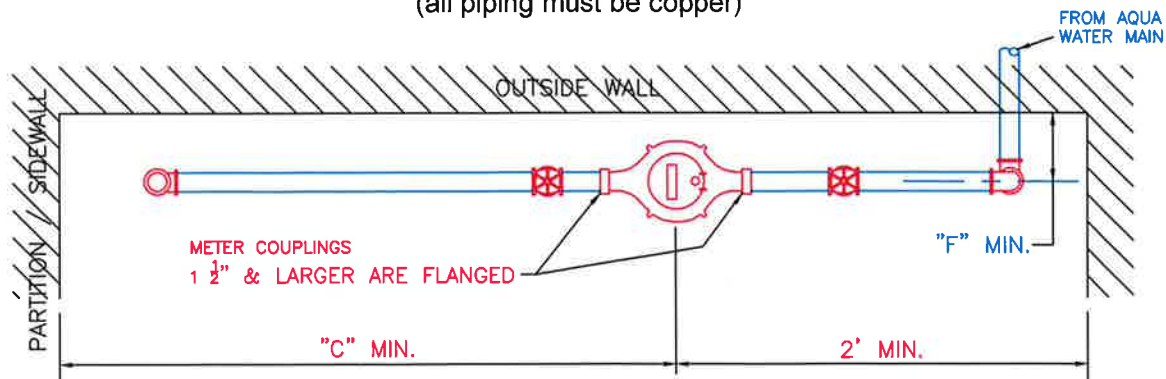
- NOTES
1. ANY WATER METER SYSTEMS (INCLUDING LIDS) DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 2. NO MODIFICATIONS SHALL BE MADE TO THE METER PIT WITHOUT PRIOR APPROVAL BY AQUA, IN WRITING.

1" TYPE "K" COPPER TUBING FROM CORP. STOP TO METER PIT INLET

45° MAX.

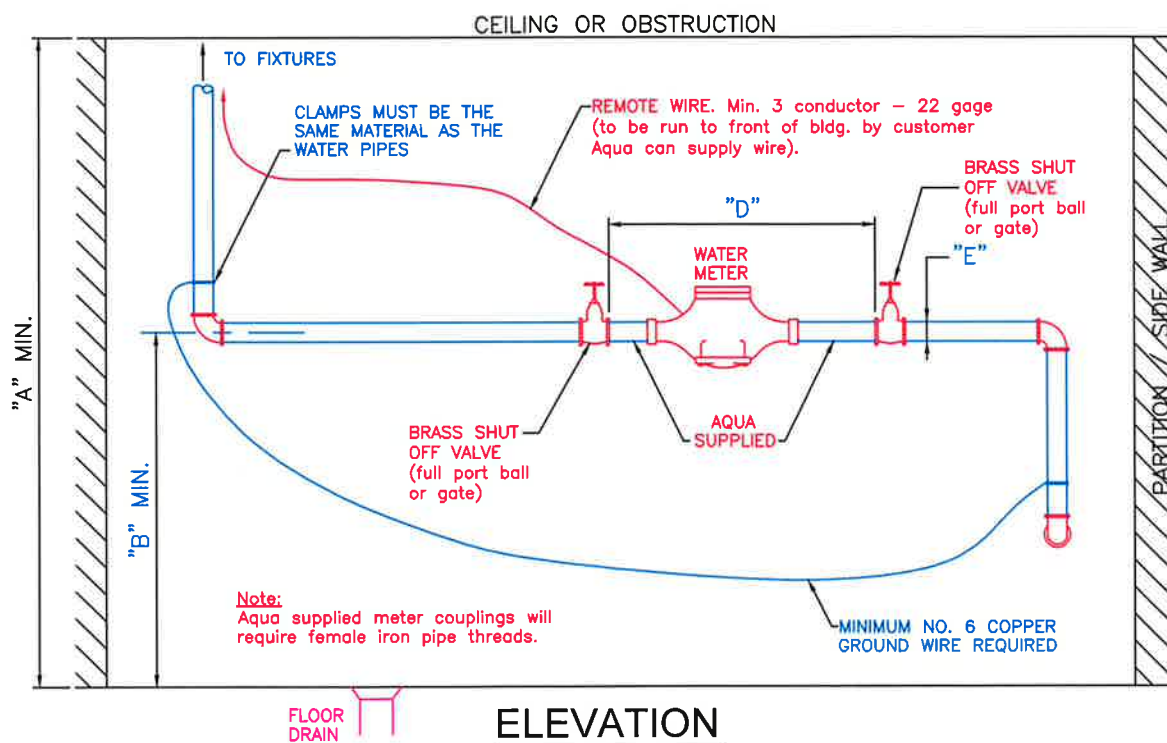
TYPICAL SERVICE LINE DETAIL (NEW CONSTRUCTION)
NOT TO SCALE

**STANDARD LAYOUT FOR INDOOR WATER METER INSTALLATION
WITHOUT REDUCED PRESSURE BACKFLOW PROTECTION
(all piping must be copper)**



PLAN

NOTE: METER MUST BE INSTALLED WITHIN 2 FT. FROM ENTRY INTO BUILDING.



ELEVATION

Meter Size	"A" Min.	"B"		"C" Min.	"D"	"E" Pipe Thread	"F" Min.
		Min.	Max.				
5/8" X 3/4"	6'-0"	1'-6"	3'-0"	3'-0"	12"	3/4"	3"
3/4"	6'-0"	1'-6"	3'-0"	3'-0"	12"	3/4"	4"
1"	6'-0"	1'-6"	3'-0"	3'-0"	16"	1"	5"
1 1/2"	6'-0"	1'-6"	3'-0"	3'-0"	13"	Flanged	7"
2"	6'-0"	1'-6"	3'-0"	3'-0"	17"	Flanged	9"



AQUA OHIO, INC.

SERVICE CENTER, BOARDMAN, OH. 44512

AN AFFILIATE OF AQUA AMERICA, INC.

SUBJECT

**Meter Installation
Without Backflow Preventor**

NOT TO SCALE

revised August, 2012

division CORPORATE STANDARDS

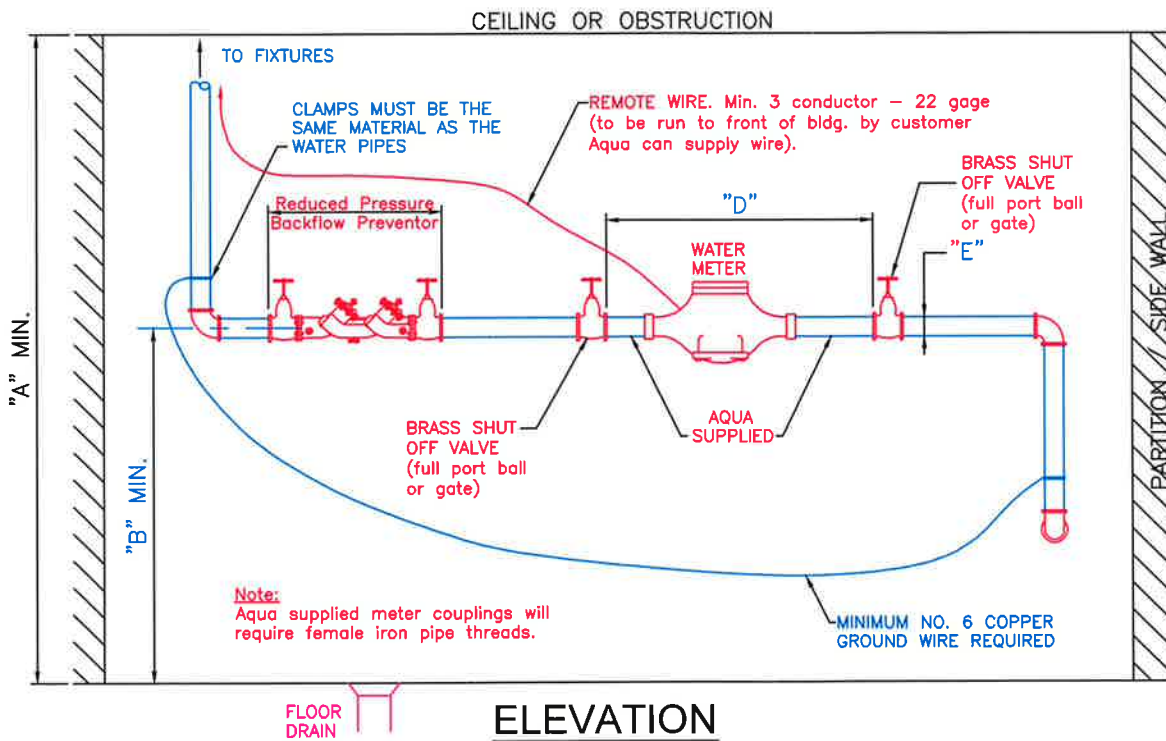
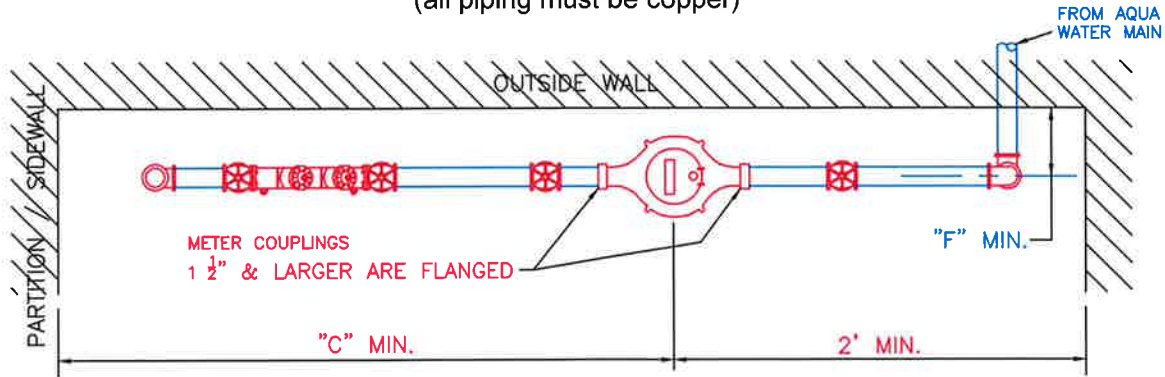
drawn D. Warrick

date Jan., 1999

approved R. Byrom, P.E.

sheet

**STANDARD LAYOUT FOR INDOOR WATER METER INSTALLATION
WITH REDUCED PRESSURE BACKFLOW PROTECTION**
(all piping must be copper)



Meter Size	"A" Min.	"B"		"C" Min.	"D"	"E" Pipe Thread	"F" Min.
		Min.	Max.				
5/8" X 3/4"	6'-0"	1'-6"	3'-0"	3'-0"	12"	3/4"	3"
3/4"	6'-0"	1'-6"	3'-0"	3'-0"	12"	3/4"	4"
1"	6'-0"	1'-6"	3'-0"	3'-0"	16"	1"	5"
1 1/2"	6'-0"	1'-6"	3'-0"	3'-0"	13"	Flanged	7"
2"	6'-0"	1'-6"	3'-0"	3'-0"	17"	Flanged	9"



AQUA OHIO, INC.
SERVICE CENTER, BOARDMAN, OH. 44512
AN AFFILIATE OF AQUA AMERICA, INC.

SUBJECT

**METER INSTALLATION
w/ BACKFLOW PREVENTOR**
NOT TO SCALE

revised August, 2012

division CORPORATE STANDARDS

drawn D. Warrick

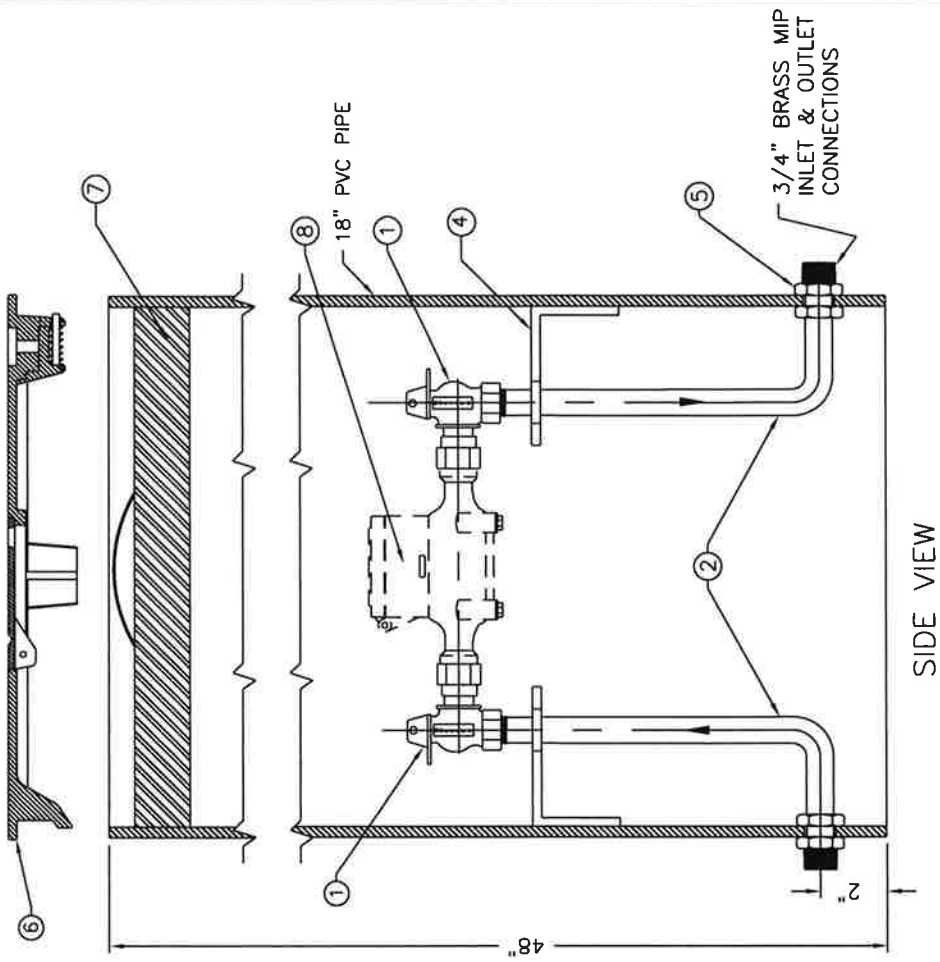
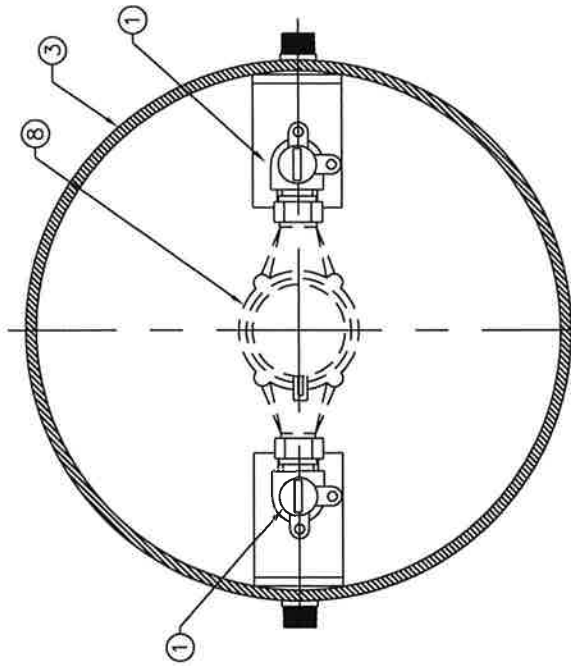
date Jan., 1999

approved R. Byrom, P.E.

sheet

ITEM	DESCRIPTION	PART NO.	REQ'D
1	5/8"x3/4" LOCKING FULL PORT BALL VALVE	B24265N	2
2	RISER SUB ASSEMBLY		2
3	18" SHELL SUB ASSEMBLY		1
4	SUPPORT BRACKET		2
5	3/4" HEX NUTS		4
6	CAST IRON SIDE-LOCKING LID (OPTIONAL)	780113	---
7	18" X 4" INSULATING PAD (OPTIONAL)	790153	---
8	METER (NOT INCLUDED)		---

*NOTE: METER NOT INCLUDED



DMTR	BBF	3/23/17	THIRD ANGLE PROJECTION	REF. NO.	SCALE
CHK'R					NONE
E.O. NUMBER				STOCK No.	
			DESCR	REV.	NUMBER
			5/8"x3/4" REGO SINGLE METER PT		203RS1848FFBSN
			18" DIA X 48" DEPTH		
			LOW LEAD BRASS		
			Mueller Co.		SHEET 1 OF 1

REV.	DESCRIPTION	REF.	DMTR	CHK'R	APP	DATE

Documentation of Aqua Water Service to a Property with a Private Water Supply

I, _____, the undersigned, in making application for water service to my property located at _____ (full address) hereby declare that my property currently has a private water system. I will either abandon the private water system or maintain the private water system as indicated below.

CIRCLE ONE

A. I will abandon my present water supply and agree to comply with the following conditions.

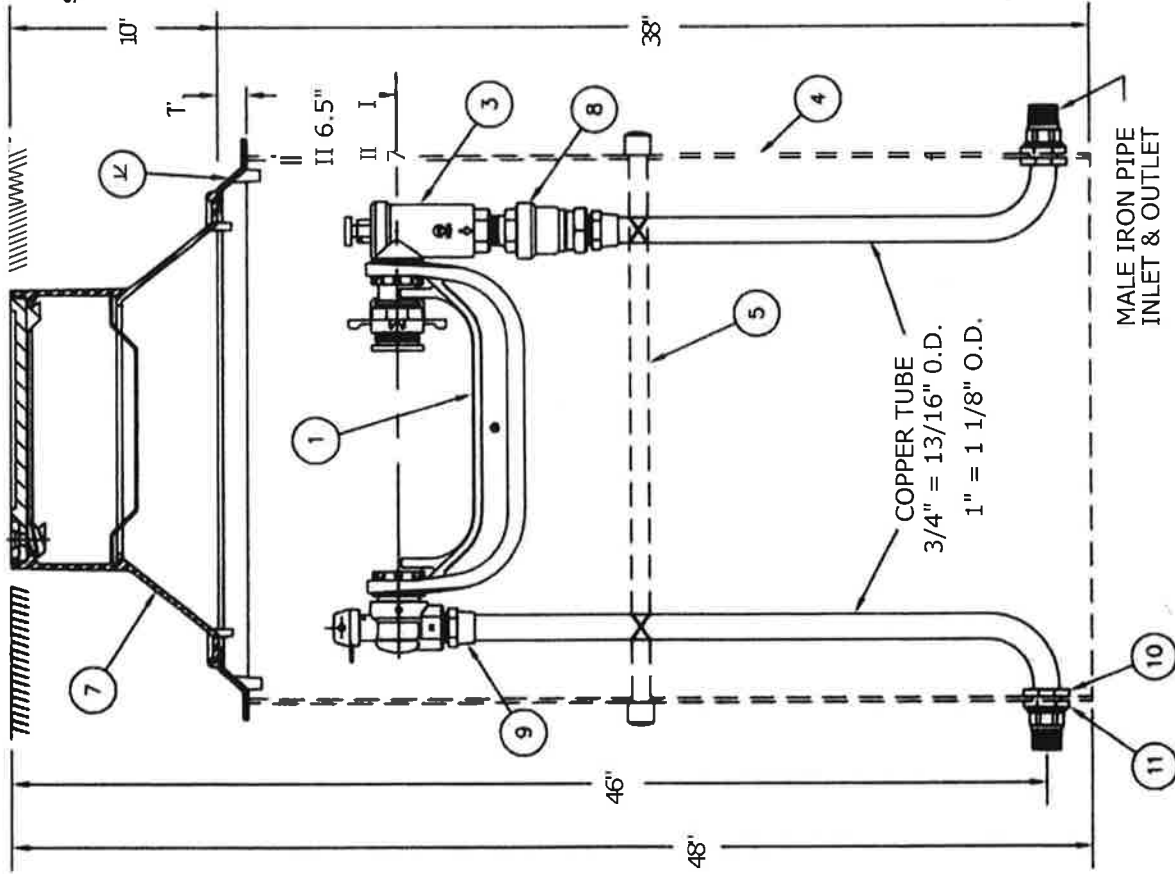
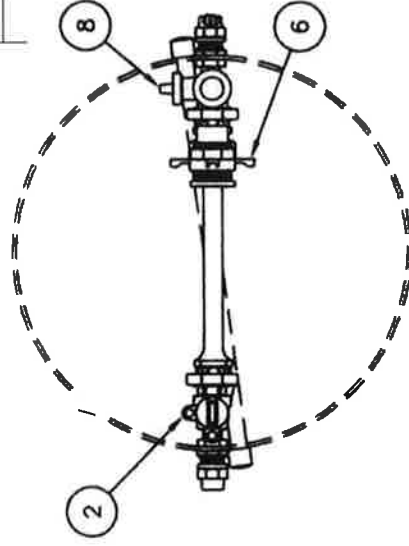
- 1) Private water well abandonment is the **permanent sealing** of the water well.
- 2) Permanently seal the private well in compliance with Ohio Department of Health's (ODH) **Procedures for Sealing of Private Water Systems** rules (OAC 3701-28-17). **The State of Ohio Regulations and Technical Guidance for Sealing Unused Waters and Boreholes** (2015) should be reviewed and used as a guide.

Private well abandonment must be documented by completing ODNR's **Water Well Sealing** report which can be found at <http://water.ohiodnr.gov/search-file-well-logs#FIL> **The Water Sealing Report must be submitted to ODNR, Well Driller who performed the well sealing activity, local health department, and Aqua Ohio's Environmental Compliance office.**

- 1) Abandon the cistern (if applicable) and remove or fill it with dirt. Call Aqua Ohio for an inspection of the cistern once it has been abandoned.
- 2) Water Well or cistern abandonment requires:
 - a. Disconnect & remove the pump from the property
 - b. Disconnect & remove pressure/storage tank from property
 - c. Disconnect electrical feed to the well
 - d. Cut well pipe flush with wall/floor.
- 3) Failure to complete and file the ODNR **Water Well Sealing** form within 60 days of water service being established or failure to complete the water cistern abandonment and call for an inspection within 60 days of water service being established shall result in water service termination.

NO.	ITEM	QTY	3/4"	1"
			DWG or P/N	DWG or P/N
1	TWIN YOKE BAR	1	Y503	Y504
2	FULL-PORT ANGLE BALL VIN	1	BA91-323-W-NL	BA91-444-W-NL
3	CARTRIDGE DUAL CHECK VLE	1	HHCA91-323-D-NL	HHCA91-444-D-NL
4	DIAMETER PVC PIPE	1	20"	24"
5	12" PVC SUPPORT CAPS	1		
6	EXPANSION CONNECTION	2	EC-23-NL	EC-4-NL
7	COVER	1	W3-T	W3-T
8	BALL VALVE	1	1381-333-NL	B81-444-NL
9	SOLDER BUSHING	2	CS8-23-NL	CS8-44-NL
10	INLET & OUTLET CONNECTION	2	A-31400-02-NL	A-31400-02-NL
11	LOCK NUT	2	A-42716-01	A-42716-01
12	EXTENSION RING	1	NONE	EXT-2
• ORDERED SEPARATELY				

REQUIRED ADAPTERS	
METER SIZE	YOKE PART NO.
5/8"	A-13-NL •
5/T x 3/4"	Y503 A-23-NL •
3/4"	Y503 NONE
5/8"	Y504 A-14-NL •
5/8" x 3/4"	Y504 A-24-NL •
3/4"	Y504 A-34-NL •
1"	Y504 NONE



ASSY, SINGLE YOKE, 3/4" & 1" METER,
BALL VALVE INLET & CHECK VALVE OUTLET

REF: FORD M. B. Co. PLAN A-95095-042 & 043

DRAWN BY DLG DATE 1-3-2000 DRAWING NO.

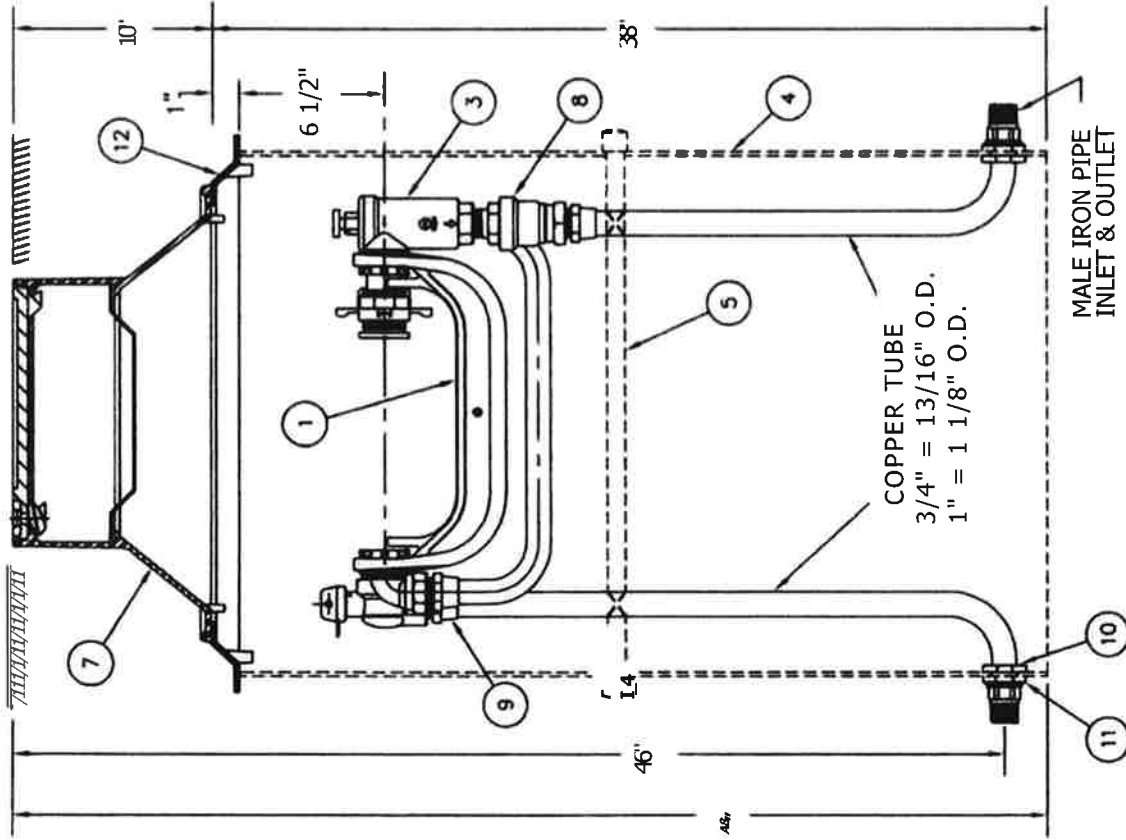
CHK'D BY MJF SCALE N. T.S.

MB-1

Each part must be NSF/ANSI 61, Annex F & G compliant.
Entire unit must be NSF/ANSI 372 compliant.

AQUA

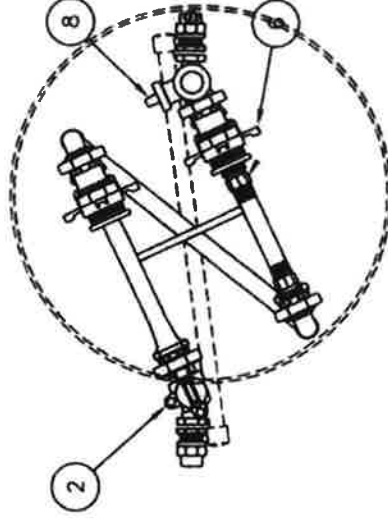
Rev. 5-6-2013



e 1024

NO.	ITEM	QTY.	3/4"	1"
1	TWIN YOKE BAR	1	Y503	Y504
2	FULL-PORT ANGLE BALL VTN	1	BA91-323-W-NL	BA91-444-W-NL
3	CARTRIDGE DUAL CHECK VLE	1	HHCA91-323-D-NL	HHCA91-444-D-NL
4	DIAMETER PVC PIPE	1	20"	24"
5	1 1/2" PVC SUPPORT CAPS	1		
6	EXPANSION CONNECTION	2	EC-23-NL	EC-4-NL
7	COVER	1	W3-T	W3-T
8	BALL VALVE	1	B81-333-NL	B81-444-NL
9	SOLDER BUSHING	2	CS8-23-NL	CS8-44-NL
10	INLET dc OUTLET	2	A-31400-02-NL	A-31400-02-NL
11	LOCK NUT	2	A-42716-01	A-42716-01
12	EXTENSION RING	1	NONE	EXT-2
• ORDERED SEPARATELY				

REQUIRED ADAPTERS	
METER SIZE	PART NO.
5/8"	A-13-NL •
5/8" x 3/4"	Y503
3/4"	Y503
5/8"	Y504
5/8" x 3/4"	Y504
3/4"	Y504
1	Y504
	NONE



ASSY, 3/4" & 1" TWIN YOKE WITH BALL VALVE INLET & CHECK VALVE OUTLET

REF: FORD	M. B. Co. PLAN A-95095-
DRAWN BY DLG	DATE 12-20-99
CHK'D BY MJF	SCALE N.T.S.
	DRAWING NO. 040-041
	MB-2

Each part must be NSF/ANSI 61, Annex F & G compliant.
 Entire unit must be NSF/ANSI 372 compliant.

Rev. 5-6-2013

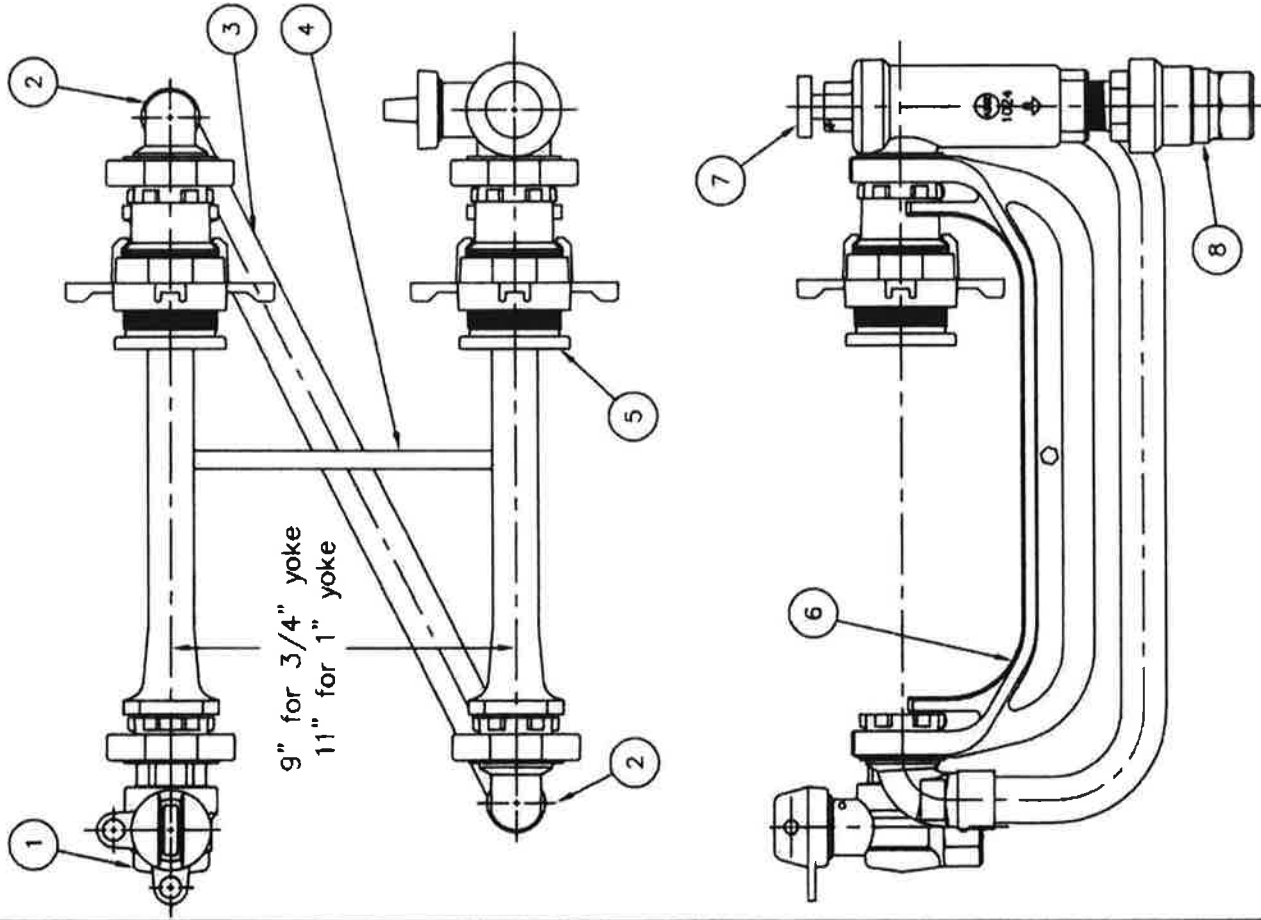
AQUA

3/4" TWIN YOKE SETTER

ITEM	DESCRIPTION	QTY.	DWG. OR P/N
1	3/4" ANGLE BALL VALVE	1	BA91 — 323W
2	SOLDER ELBOW	2	B-28003-03
3	15/16" O.D. COPPER CROSS OVER TUBE	1	A-36013-01
4	BRACE BAR	1	A-29001-01
5	EXPANSION CONNECTION	2	EC-23
6	YOKE BAR	2	Y503
7	CARTRIDGE DUAL CHECK VALVE 61024	1	HHCA91-323—D
8	3/4" BALL VALVE	1	B81-333

1" TWIN YOKE SETTER

ITEM	DESCRIPTION	QTY.	DWG. OR P/N
1	1" ANGLE BALL VALVE	1	BA91 — 444W
2	SOLDER ELBOW	2	L91 — 44
3	1 1/8" O.D. COPPER CROSS OVER TUBE	1	*
4	BRACE BAR	1	A-29001-01
5	EXPANSION CONNECTION	2	EC-4
6	YOKE BAR	2	Y504
7	CARTRIDGE DUAL CHECK VALVE 51024	1	HHCA91 — 444—D
8	1" BALL VALVE	1	B81 — 444



ASSY, 3/4" & 1" TWIN YOKE SETTER WITH BALL VALVE INLET & CHECK VALVE OUTLET

REF: FORD M. B. Co. PLAN A-95095-038 & 039

DRAWN BY DLG DATE 12-14-99 DRAWING NO.

CHK'D BY MJF SCALE 1/4=1

MBY-2

AQUA

Each part must be NSF/ANSI 61, Annex F & G compliant. Entire unit must be NSF/ANSI 372 compliant.

APPENDIX D

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

0217347
RETURN COMPLETED FORM
TO AQUA OHIO

LOCATION

County _____ Township _____ Circle One or Both
Owner/Builder _____ Section/Lot Number _____
Circle One or Both

Address of Well Location _____
Number _____ Street Name _____

City _____ Zip Code _____

Property Location _____ miles _____ of _____
Description _____ n, e, s, w _____ nearest intersection _____

on the _____ side of _____ road name _____

Location of Well in either: { State Plane N S X _____ +/- _____ ft. or m. Y _____ +/- _____ ft. or m.
OR { Check ONE In Decimal Degrees Degrees Minutes Degrees Min. Sec.
{ Latitude _____ Longitude _____ }

Elevation of Well _____ +/- _____ ft. or m. Datum Plain: NAD27 NAD83

Source of Coordinates: GPS Survey Other _____ (circle one)

ORIGINAL WELL ODNR Well Log Number _____ Copy attached? Yes or No _____

MEASURED CONSTRUCTION DETAILS Date of measurements _____

Depth of Well _____ Static Water Level _____
Size of Casing _____ Length of casing _____
Well Condition _____

SEALING PROCEDURE

Method of Placement _____ Sealing Material _____ Volume _____
Placement: From _____ To _____
From _____ To _____
From _____ To _____

Was Casing Removed? Yes or No (circle one)

Condition of Casing _____
Perforations: From _____ To _____
From _____ To _____

Date Sealing Performed _____
Reason(s) for Sealing _____

CONTRACTOR

Name _____ ODH Registration # _____
Address _____
City/State/Zip _____

Signature _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
ORIGINAL COPY TO - ODNR, DIVISION OF SOIL AND WATER RESOURCES,
2045 MORSE ROAD BLDG. B, COLS., OHIO 43229-6693
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

APPENDIX E