MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

ALIQUIPPA, PENNSYLVANIA

WATER SYSTEM

RULES AND REGULATIONS

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RESOLUTION NO. 14-01 OF 20 14

A RESOLUTION OF THE MUNICIPAL WATER AUTHORITY OF ALIQUIPPA, BEAVER COUNTY, PENNSYLVANIA, ESTABLISHING RULES AND REGULATIONS FOR CONNECTION TO, RECEIVING SERVICE FROM, CONSTRUCTION AND EXTENSION OF THE EXISTING WATER DISTRIBUTION SYSTEM BY DEVELOPERS, AND PROVIDING FOR SURCHARGES AND PENALTIES ASSOCIATED THEREWITH.

WHEREAS, MWAA is desirous of regulating connections to, service from and construction and extension of the existing water distribution system by developers by establishing Water System Rules and Regulations; and

WHEREAS, MWAA is desirous of providing for surcharges and penalties associated with violations of the Water System Rules and Regulations.

NOW, THEREFORE, BE IT RESOLVED by the MUNICPAL WATER AUTHORITY OF ALIQUIPPA, Beaver County, Pennsylvania, as follows:

ARTICLE I GENERAL

Section 101. These Rules and Regulations are a part of the contract of every customer who takes water, and every such Customer, by the taking of water agrees to be bound thereby.

Section 102. No activities in conflict with the Water System Rules and Regulations shall be permitted by MWAA.

Section 103. Representatives of MWAA shall have the right of access at all reasonable times to all parts of the Premises connected with the Water System and to examine and inspect the connections thereto and the plumbing fixtures for any improper connection, installation maintenance or use. MWAA may make reasonable charges for such inspection to users of the Water System.

Section 104. MWAA may, without notice, if an emergency reasonably requires it, discontinue water service in order to make necessary repairs or connections or to meet any other emergency. MWAA will give notice of discontinuance of service if it is reasonably possible to do so.

Section 105. MWAA shall not be liable for any damage or injury to any person or property caused by the discontinuance of water service for any of the reasons enumerated in

Section 104, or for the purpose of making necessary repairs and connections to meet any emergency, or caused by the failure of Consumers to maintain Customer's service line, or caused by water escaping from Consumer's line, or caused by the total or partial failure of water service of pressure for any cause beyond the control of MWAA. MWAA shall be under no liability for damage or injury by fire to any person or property caused by the total or partial failure of water service service or pressure for any cause whether within or beyond the control of MWAA.

Section 106. No agent or employee of MWAA shall have authority to bind it by any promise, agreements, or representation not provided for in these Rules and Regulations, unless such authority is given in writing signed by the General Manager or the Chairman of MWAA.

ARTICLE II DEFINITIONS

Unless the context specifically indicates otherwise, words and terms used in these Rules and Regulations shall have the following meanings:

Section 201. <u>MWAA</u> shall mean the Municipal Water Authority of Aliquippa, Beaver County, Pennsylvania, a body corporate and politic organized and existing under the laws of the Commonwealth of Pennsylvania.

Section 202. <u>OWNER:</u> The word "Owner" whenever the same appears herein, means the person, firm or corporation or association having an interest as Owner, or a person, firm or corporation representing itself to be the Owner, whether legal or equitable, sole or partial, in any Premises which is, or is about to be supplied with water by MWAA, and the word "Owner" means all so interested.

Section 203. <u>TENANT</u>: Is anyone occupying the Premises under lease from a lessor and obtaining water from the mains of MWAA.

Section 204. <u>CONSUMER</u>: The word "Consumer" shall be defined as the party either Owner or Tenant authorized by the Owner, contracting with MWAA for water service for one (1) family, business, commercial, industrial, institutional, housing development on one Premise owned or tenanted by the party.

Section 205. <u>PREMISES</u>: The word "Premises", as used herein shall be the property or area including the improvements thereon, to which water service is or will be provided through waterlines of MWAA, and as used herein, shall be taken to designate:

- 1. A building under one roof owned or leased by one Consumer and occupied as one residence or one place of business; or
- 2. A group or combination of buildings owned by one Consumer, in one common enclosure, occupied by one family or one organization, corporation, or firm as a residence or place of business, or for manufacturing or industrial purposes, or as a hotel, hospital, church, parochial school or similar institution, except as otherwise noted herein; or
- 3. The one side of a double house having a solid, vertical partition wall; or
- 4. Each side or each part of a house or building occupied by one family, even though the closet and/or other fixtures are used in common; or
- 5. Each apartment, office or suite of offices, and/or place of business located in a building or a group of buildings, even though such buildings in a group are interconnected by a tunnel, passageway, covered areaway, patio, or by some similar means or structure; or

- 6. A public building devoted entirely to public use, such as a town hall, school, fire house; or
- 7. A single lot or park or playground; or
- 8. Each dwelling unit in a row of houses; or
- 9. Each dwelling unit in a double house, in a row of connecting houses, housing project or development building, or in an apartment. Any room, group of rooms, house trailer, enclosure, etc., occupied or intended for occupancy as separate living quarters by a family or other group of persons living together or by persons living alone shall be classified as a dwelling unit; or
- 10. Each individual and separate place of business and/or occupancy located in one building or group of buildings commonly designated as shopping centers, super market areas, malls, plaza's and by such other terms; or
- 11. Each dwelling unit in a public housing development owned and operated by the United States of America, a municipal sub-division of the Commonwealth of Pennsylvania, or an agency or instrument of the United States or the Commonwealth of Pennsylvania, by a philanthropic foundation or organization, or some such similar body or organization; or operated under private ownership.

ARTICLE III SERVICE

Section 301. Any party, whether Owner or authorized Tenant of the Premises occupied, desiring a supply of water, must make a written application on the Form WA10 furnished by MWAA which must be properly approved by MWAA or its duly authorized agent before the water will be turned on. The party making the application will be considered the Consumer under this contract, and will be held responsible for all water bills and the proper observance of the Rules and Regulations of MWAA. In case of default in payment of bills rendered, the Owner shall be considered as the Consumer. Water service will not be provided without the written application of the Owner or his duly authorized agent.

Section 302. if the Applicant is a Tenant, The owner must execute and file the WA20 (Owners Authorization).

Section 303. No Owner or authorized Tenant of any Premises supplied with water by this Authority will be allowed to supply water to other persons or families or other Premises, except by written permit from MWAA.

Section 304. Water service not supplied by MWAA, shall not be connected or crossconnected with MWAA's facilities, except upon written consent of MWAA.

Section 305. Service under any application may be discontinued for any of the following reasons:

- 1. For misrepresentation in application, as to property or fixtures to be supplied or the use of the water supply.
- 2. For the use of water for any other property or purpose than that described in the application.
- 3. For willful waste of water through improper or defective pipes, fixtures, devices, meters or otherwise.
- 4. For failure to protect the meter, connections, service lines or fixtures from freezing and keeping them in good order.
- 5. For non-payment of any charge for service when due.
- 6. For molesting any service pipe, meter, curb stop, valve, or any other appliance of MWAA transporting, controlling or regulating the water supply.
- 7. In case of vacancy of Premises.
- 8. For violation of any rules of MWAA.

Section 306. Only an authorized representative of MWAA can turn the water supply on or off (at any corporation stop, curb stop, or valve) or disconnect or remove the meter. Violators are subject to the penalties imposed by law.

Section 307. As necessity may arise in case of break, emergency or for other unavoidable cause, MWAA shall have the right to temporarily cut off the water supply, in order to make necessary repairs, connections, etc.; but MWAA will use all reasonable and practical measures to notify the Consumer of such discontinuance of service. In such a case MWAA shall not be liable for any damage or inconvenience suffered by the applicant; or any claim against it at any time for interruption in service, lessening of the supply, inadequate pressure and poor quality of water, and for any causes reasonably beyond its control.

Section 308. MWAA shall have the right to reserve a sufficient supply of water at all times in its reservoirs, to provide for fire and other emergencies, or may restrict or regulate the quantity of water used by Consumers in case of a scarcity, or whenever the public welfare may require it. Lawn or garden watering (sprinkling) shall be discontinued whenever an alarm of fire is rung or water conservation measures are requested of customers.

Section 309. Service will be renewed under a proper application when the conditions under which such service was discontinued are corrected and upon the payment of all charges owed to MWAA.

Section 310. A supply of water for any new Premise must be specifically applied for and reviewed by MWAA. Such a supply may be furnished provided all rules, regulations and fees of MWAA are satisfied and the WA10 is duly made and accepted. Internal plumbing shall be made ready and the water meter and appurtenances installed within 60 days from service line installation. The minimum Monthly Charge will begin the earlier of the 60 days from installation or the meter being installed.

Section 311. Where a water connection has been previously installed and water desired, a complete aWA10 shall be signed by a new Owner or Tenant.

Section 312. A charge fixed by MWAA will be imposed for turning on water in restoration of service after discontinuance for any of the reasons specified under Section 304. Further a charge fixed by MWAA will be imposed for the discontinuance of service for the reasons cited above.

Section 313. A deposit will be required from Consumers taking service for a period of less than thirty (30) days. Monies which may remain in excess of the deposit after discontinuance of service will be returned to the Consumer.

Section 314. Only MWWA personnel and their authorized agents may operate any mainline valves or system hydrants. It is illegal to tamper with these devices. Violators will be subject to the penalties imposed by law.

Section 315. It is considered illegal and a theft of service for the use, consumption or removal of water from the water system without the written approval of MWAA and the installation of a metering device and backflow prevention device. Any water legally removed will be charged at the prevailing rate, plus any applicable fees, based on the water meter readings.

Section 316. For new or expanded water service now or hereafter installed and connected to MWAA's water system, a separate service line will be required to be used exclusively for water supply for each Premise. This separate service line shall be installed and paid for by the Owner. The proposed connection must be approved and inspected by MWAA. The Owner is required to conduct and to pay for all testing under the supervision of MWAA or it authorized representative. All work shall be in accordance with the Rules, Regulations and Standards of the Authority in effect at the time of application. A supply of water shall not be provided until all the requirements of MWAA have been satisfied and all fees (administrative, technical and legal) have been paid. Depending on the size and scope of the project MWAA may require the execution of a developer's agreement and the provision of a performance and maintenance bond.

ARTICLE IV MULTIPLE CUSTOMERS ON THE SAME SERVICE LINE

Section 401. No more than one single Premise shall be supplied by a single service line, except as approved or ordered by MWAA.

Section 402. Each Premise shall have a separate meter and shutoff valve. If the arrangement of the piping serving double houses, apartment houses, office buildings or business blocks do not permit individual metering, the Owner shall be liable for the payment of the bills and each family, office, suite of offices, business or establishment shall be considered as a separate Consumer or Tenant although not supplied through separate service connections and separate meters.

Section 403. Where two or more buildings or two or more families or establishments in a single building, are supplied by a single service line, with the approval of MWAA, and where it is desired to have the occupants of such buildings, or such families, or establishments, contract separately for water furnished, the Owner shall first arrange the service connections and /or the plumbing, in such a way that a separate meter and shut off valve, can be placed upon the supply line of each of said buildings, families or establishments in a single building. A suitable weather tight and heated location shall be provided and maintained by the Owner for grouping all such meters together.

Section 404. No Owner or Tenant of any Premises supplied by MWAA will be allowed to furnish water to other persons or families and in case of violation of this rule, the service will be discontinued.

ARTICLE V

PUBLIC FIRE PROTECTION SERVICE AND OTHER USE OF HYDRANTS

Section 501. Upon written request from the duly authorized officials of the municipalities supplied by MWAA, MWAA will install at the designated location on any public street, a public hydrant, together with a service pipe from MWAA's street main to the hydrant provided that the size of the existing street main and surrounding distribution system and the available pressure in the said street main, are, in the judgment of MWAA sufficient to provide a proper service at the hydrant under normal and ordinary conditions.

Section 502. All public hydrants will be maintained by MWAA at its own expense, provided that any expense for repairs caused by the carelessness or negligence of the employees of the municipality or the members of the fire department or any other department of the municipality shall be paid for by the said municipality.

Section 503. The use of public hydrants shall be restricted to the taking of water for the extinguishing of fires, except that a permit will be issued by MWAA. The volume of water used must be reported to MWAA. MWAA reserves the right to limit water usage during the test.

Section 504. No public hydrant shall be used for sprinkling streets, flushing sewers or gutters, showering streets, contractors' or builders' purposes, or for any other than fire purposes, except with the written approval of MWAA. Such approval may be granted when deemed necessary by MWAA and when other means of obtaining water are not available. Any permit so granted shall be revocable at the discretion of MWAA. Terms for the use of the hydrant for purposes other than fire protection shall be set by MWAA for each particular case and at rates fixed by MWAA. The volume of water used must be reported to MWAA. Operation of the hydrants shall only be performed by MWAA staff.

Section 505. Upon written application from the duly authorized officials of a municipality, directing a change in the location of a public hydrant, MWAA will make such change at the expense of the municipality requesting the change. The applicant shall be responsible for all costs related to the relocation including overtime for performing work after hours to minimize service disruptions to Consumers.

Section 506. Upon request of the duly authorized officials of any municipality, MWAA will make inspections at convenient times, and at reasonable intervals, to determine the condition of the hydrants, such inspections to be made by a representative of MWAA and fire chief, or other duly authorized representative of the municipality to which the service is furnished.

Section 507. The entire cost of installation of hydrants, including all pipe lines, valves, connections, shall be paid by the municipality applying for such service, in addition to which the municipality shall pay annually to MWAA a per annum charge for each hydrant installed and in place. The applicant shall be responsible for all costs related to the installation including overtime for performing work after hours to minimize service disruptions to Consumers.

<u>ARTICLE VI</u> PRIVATE FIRE PROTECTION SERVICE

Section 601. Private fire protection service where required or desired shall be through a separate service line used solely for such purposes and subject to the quarterly rate charges for such services. This includes domestic, commercial, institutional and industrial Consumers. The Owner must first complete a Form WA30 furnished by MWAA stating fully the purpose for which the private fire protection service is desired.

Section 602. The Owner is responsible for all components of design, operation and maintenance of the fire protection system including computations for available system pressure and water quantity. A complete system, bearing the seal of a design professional, must be provided with the application showing all component of the proposed work. Installation shall be in accordance with all applicable requirements of Article XI, MWAA assumes no liability for any portion, design or operation of the Private Fire Protection System.

Section 603. For automatic sprinklers or other automatic fire protection devices now or hereafter installed and connected to MWAA's water system located inside a building or buildings, a service line will be required to be used exclusively for fire protection service, this service line to be installed and paid for by the Owner. The proposed connection must be approved and inspected by MWAA. The Owner is required to conduct and to pay for all testing under the supervision of MWAA or it authorized representative. All work shall be in accordance with the Rules, Regulations and Standards of the Authority in effect at the time of application. A supply of water shall not be provided until all the requirements of MWAA have been satisfied and all fees (administrative, technical, and legal) have been paid. Depending on the size and scope of the project MWAA may require the execution of a developer's agreement and the provision of a performance and maintenance bond.

Section 604. No connection or cross connection shall be made between Consumer's private fire protection service facilities to any other independent source of water supply. Further no connection or cross connection shall be made between the Consumers fire protection and non-fire protection systems. The use of anti-freeze systems is prohibited.

Section 605. Private hydrants shall not be located at the sidewalk, or in any place of each access to the public, except with the written consent of MWAA.

Section 606. It is understood and agreed with and between the parties receiving Private Fire Protection Service and MWAA that the provision of service does not contemplate any special service, pressure capacity or facility other than the ordinary changing conditions of the MWAA system which exist from day to day. MWAA hereby declares and it is agreed by the Consumer that MWAA shall be free and exempt from any and all claims for injuries to persons or property by reason of fire, water, failure to supply water, pressure or capacity. A written application, prepared on a MWAA form must be submitted before the connection of any Private Fire Protection System to the public water supply. The Application shall be accompanied by accurate plans showing the proposed fire system and appurtenances and showing any other water supply system and appurtenances which may exist on the Premise. The Application shall be signed by the Owner of the Premise or his duly authorized agent. The Application must be approved by the Authority before the connection of any Private Fire Protection System to the Authority's water supply system. All plans for the Private Fire Protection System must be sealed by a professional engineer and be in strict accordance with the latest requirements of International Building Code, National Fire Protection Association (NFPA) and industry standard requirements. All costs for plan/application reviews shall be the responsibility of the Applicant/Property Owner.

Section 607. All improved and unimproved surface restoration shall comply with the governing regulation of the Municipality the work is conducted in.

ARTICLE VII WATER SERVICE CHARGES

Section 701. There is imposed upon the Owners of, or Consumers of water in or on, all properties served by the public water distribution system, water service charges for the use of said system, payable in the amounts and as provided in the Water Rate Schedule heretofore adopted by MWAA and as it is hereinafter from time to time amended and modified. Said Owners and Consumers will be jointly and severally liable for the payment of said water service charges and, the penalties therein prescribed for delinquent payments thereof.

Section 702. All bills for water service shall be due when rendered and shall be subject to the penalty provisions set forth in MWAA's Water Rate Schedule. Owners, and where adequate arrangements have been made with MWAA, Consumers will be billed periodically for the water service in accordance with the billing practices of MWAA.

Section 703. Deposits may, at the option of MWAA, be required from all Consumers as shall from time to time be fixed by MWAA.

Section 704. A deposit shall not be considered payment on account of a bill for water service during the time the Consumer is receiving water service.

Section 705. Upon the discontinuance of water service to a Consumer, MWAA may apply the deposit of such Consumer to the payment of any unpaid bill for water service to such Consumer, and will return the unapplied balance of such deposit thereon to said Consumer.

ARTICLE VIII WATER METERS

Section 801. MWAA shall purchase and install the meter required for service to each existing Premise. For any new single or multiple Premise the MWAA shall furnish and provide the meter and appurtenances. The cost for said meter and appurtenances shall be reimbursed to MWAA according to actual costs incurred for the provision of same. The Consumer shall grant to MWAA the right of access to the meter for reading, inspection, tests and repairs.

Section 802. MWAA will determine the location of all meters. If placed within the building, the Consumer shall provide free of charge and expense, an easily accessible weather proof and heated location at the entrance of service pipes to the Premise, with a locking valve at the inlet side of the meter; if MWAA decides that the meter is to be placed outside of a building, it shall be placed in a meter box with a suitable locking valve, all of which shall be furnished, installed and paid for by the Consumer.

Section 803. The Consumer shall be held responsible for all expense for damage to the meter including but not limited to the action of frost, neglect or negligence.

Section 804. No connections or outlets will be permitted on the service pipe or pipes supplying any Premises between the corporation stop and the meter. All water used must pass through the meter.

Section 805. Meters will be maintained by MWAA, so far as ordinary wear and service are concerned. The Consumer shall notify MWAA of any injury to or the non-working of the meter as soon as it comes to his knowledge.

Section 806. MWAA shall upon written request of a Consumer, and if he so desires in his presence or that of his authorized representative, make a test of the accuracy of the meter. A fee shall be paid to MWAA by the Consumer requesting such a test.

ARTICLE IX BILLING AND COLLECTION

Section 901. Bills and notices relating to the water distribution charges and surcharges will be mailed or delivered to the property Owner's last address, or where proper arrangements have been made with MWAA, to the user's last address, as shown on the billing books of MWAA.

Section 902. Each Premise shall have a separate meter and shutoff valve. If the arrangement of the piping serving double houses, apartment houses, office buildings or business blocks do not permit individual metering, the Owner shall be liable for the payment of the bills and each family, office, suite of offices, business or establishment shall be considered as a separate Consumer or Tenant although not supplied through separate service connections and separate meters.

Section 903. The total charge for each Consumer or Tenant is the minimum charge plus commodity charges for the average consumption in excess of the minimum gallon allowance. The total charge for the Premise is the charge for the individual dwelling unit multiplied by the number of dwelling units.

Section 904. All Owners connected to the Water Distribution System shall give MWAA their correct address. Failure to receive bills shall not be considered an excuse for non-payment nor permit an extension of the period during which bills may be payable without penalty.

Section 905. MWAA reserves the right to render bills at monthly intervals for service to large commercial and industrial establishments and to housing developments or wholesale customers served by a single meter as approved by MWAA. In such cases, all minimum bills and quantity charges shall be prorated on the basis of one third of the quarterly rates.

Section 906. When a meter has ceased to register, the quantity may be determined by the average registration of the meter when in order using historic consumption data on file with the MWAA.

Section 907. No abatements on water bills will be made for leaks or for water wasted by damaged fixtures. Water bills are based on metered water consumption. It is the Consumers responsibility to pay for all consumption resulting from faulty plumbing, devices and appliances; water leaks, and damaged fixtures.

Section 908. Miscellaneous Water Charges shall be adopted, and amended as required, by MWAA for the following:

- 1. Service connections-tap-in fee
- 2. Charge for Testing Private Meters

- 3. Charge for Testing Meter at Consumer's Request
- 4. Change for collecting delinquent accounts NSF or non-negotiable checks, any other Outstanding amount when a serviceman calls At property
- 5. Charge for turning water on after service Has been discontinued for non-payment of Bills, violation of rules, or terms of application
- 6. Charge for turning off or turning on water Temporarily due to seasonal nature of Business, vacation, etc.
- 7. Charge for service call, including turning off Or on at Consumers request for internal piping Repairs during other than regular working hours
- 8. Charge for repair of Frozen Meters
- 9. Deposits by Tenant
- 10. Water used from hydrants
- 11. Charge for installation of a new hydrant
- 12. Charge for the provision of a water meter and appurtenances for new construction.
- 13. Current price to be charge for lockstops or any Other material sold by MWAA plus 20%

ARTICLE X CONNECTIONS TO SYSTEM

Section 1001. Any property Owner, or Tenant, desiring the introduction of a service line or lines from the MWAA system into his or her Premises, or an extension or alternation to any of the existing service pipes and fixtures must first complete a WA30 furnished by MWAA stating fully the purpose for which the new service or extension is desired. Additionally the application must be accompanied by a general arrangement plan illustrating the proposed extension or alteration. Upon review and considering the scope of the project, the applicant may be required to submit complete engineered drawings, specifications, permit applications and detailed computation data. Upon satisfactory review of same by MWAA or the authorized representative, the applicant will be required to enter into a Developer's Agreement with MWAA and post and Performance and Maintenance Bond. The applicant is responsible for all Administrative, Legal and Engineering fees associated with the project. The applicant is fully responsible for all costs relative to construction of said project in accordance with the approved Plans and Specifications; the Developers Agreement; and the Rules and Regulations of MWAA. Upon completion of the above, the Application will be considered complete and work may commence.

Section 1002. The application must be signed by the Owner of the Premises or his duly authorized agent, or duly authorized Tenant, either of which shall bind the Owner, which application shall together with the Rules and Regulations of MWAA regulate and control the service of water and wastewater to such Premises.

Section 1003. All required service connection (water or sewage) and inspection fees shall be paid at the time of making application for permission to make a connection.

Section 1004. No work shall commence before the payment of any aforementioned service connection and inspection fees and acceptance of the aforementioned Application.

Section 1005. The main, corporation stop, wye branch, sanitary service pipe to curb, water service pie to curb, stop, site tee and curb service box at the property line shall be furnished and installed by the Applicant at no cost to MWAA. The applicant shall be responsible for all inspection and testing fees. Upon completion, payment of all fees and acceptance of the work the above shall be and remain the property of MWAA. The top of the curb box or site tee shall be exposed at all times and it shall be the responsibility of the Consumer to keep said box exposed. If a change in elevation of the ground, sidewalk or the like is proposed, which will cover the curb box or site tee, the Consumer shall notify MWAA before such change is made.

Section 1006. The Owner or applicant authorized by the Owner shall at his own expense dig and fill the trench and furnish and install the water service line or sanitary service line from the curb stop or wye branch to the Premises to be supplied. Consumer's water service line shall be of a material and at a location approved by MWAA and shall be equipped at an accessible point within the Premises, with a locking meter valve of a pattern and material approved by MWAA. Section 1007. Consumer's water and sanitary service line shall not: (a) occupy the same trench with, or be placed within eighteen (18) inches of any sewer pipe or any facility of any other public utility; or (b) be placed within three (3) feet of any open excavation or vault; or (c) pass through any Premises other than those served by such Consumer's service line; (d) be laid at a depth of less than four (4) feet below the surface of the ground; or be placed in the same trench.

Section 1008. All connections, service lines and fixtures furnished by the Owner or Authorized Agent shall be maintained by him in good order, and all valves, meters and appliances furnished and owned by MWAA and on the property of the applicant shall be properly protected and cared for by said applicant. All leaks in the service or any other pipe or fixture in or upon the Premises supplied must be immediately repaired by the Owner or Consumer of the Premises. All pipe, meters and fixtures on the customer's Premises shall at all reasonable hours be subject to inspection by employees identified by proper badge or card of MWAA.

Section 1009. The Inspector, designated by MWAA, shall be given at least 24 hour notice before any connection is made to the system so that the Inspector can be present to inspect and approve the work of the building service (water or wastewater) lateral, line extension and connection. The Inspector shall signify his approval to the connection by endorsing his name and the date of approval on the aforementioned connection permit in the possession of the permittee. The Inspector shall be permitted to enter upon all properties receiving water or wastewater service for the purpose of inspection, observation, measurement, sampling and testing; such entries to be made during reasonable daylight hours with prior notification to the customer.

Section 1010. At the time of inspection of the connection, the Owner or Owners of properties shall permit the Inspector full and complete access to all waterline, sanitary sewer and piping arrangements and facilities in each building and in and about all parts of the property. No building service (water or sanitary sewer) lateral shall be covered over, or in any manner concealed, until after it is inspected and approved by said Inspector.

Section 1011. It is the intention of these Rules and Regulations that the entire connection be inspected at one time; however, if the property Owner feels that special conditions warrant more than one inspection, he may request the same subject to such additional inspection fees as MWAA shall determine.

Section 1012. All pipe installed shall be either:

- 1. Type "K" Copper (Water supply only)
- 2. PVC pipe conforming to American Society for Testing and Materials (ASTM) D2241 Specification for Polyvinyl Chloride PVC) Plastic pipe (SDR-26) (Sanitary service only)
- 3. Ductile iron pipe with rubber ring joint, double cement lined minimum Class 52 (ANSI A21.51).

4. Ductile iron pipe with rubber joint, epoxy lined – Minimum Class 52 (ANSI A21.51)

All water pipe installed shall be at least ³/₄ inch diameter. All sanitary service pipe shall be a minimum 6-inch diameter for service laterals and 8-inch diameter for mainlines. Each section of pipe shall be stamped with the manufacturer's certification. Where connections between different types of pipe are required, proper transition fittings shall be utilized.

Section 1013. All piping shall be installed in strict accord with the manufacturer's recommendations. Backfill shall be tamped uniformly around the pipe. All work shall be done in a workmanlike manner and shall provide a durable installation.

Section 1014. Commercial installations must also comply with all local construction regulations.

Section 1015. Any temporary or emergency request relative to a MWAA service line (Water or Sanitary Sewer), or change in location of MWAA's service line (Water or Sanitary Sewer), requested by the Consumer, shall be at the expense of the Consumer.

Section 1016. The service line (Water or Sanitary Sewer) from the curb to the Premises shall be kept in good condition by the Consumer under penalty of discontinuance of service by MWAA.

Section 1017. MWAA shall in no event be responsible for maintaining any portion of the service line (Water or Sanitary Sewer) owned by the applicant; or for damage done by water escaping therefrom, or for lines and fixtures on applicant's property; and applicant shall at all times comply with municipal regulations with reference thereto, and make changes therein, required on account of changes of grade, relocation of mains, or otherwise.

Section 1018. Under no circumstances shall any person not authorized by MWAA open or close the valves in any public or private service line (Water or Sanitary Sewer).

Section 1019. All improved and unimproved surface restoration shall comply with the governing regulation of the Municipality the work is conducted in.

ARTICLE XI PROPOSED EXTENSIONS OF SYSTEM BY DEVELOPERS

Section 1101. Proposed extensions from the MWAA system by Developers or Individuals must first make a written application on the form WA30 furnished by MWAA stating fully the purpose for which the new extension is desired. Additionally the application must be accompanied by a general arrangement plan illustrating the proposed extension or alteration. Upon review and considering the scope of the project, the applicant must proceed with the requirements described herein.

Section 1102. Five (5) copies of plans for proposed extensions shall be submitted to MWAA on 24" x 36" sheets showing plan views to a scale no smaller than 1'' = 50' and profiles to a scale of 1'' = 10' vertically and no smaller than 1'' = 50' horizontally, a north point, a title block, date and the name of the engineer or surveyor and imprint of his registration seal.

Section 1103. All water distribution lines shall be designed in accordance with the Public Water Supply Manual of the Pennsylvania Department of Environmental Protection, and these Rules and Regulations. All sanitary sewers shall be designed in accordance with the Domestic Wastewater Manual of the Pennsylvania Department of Environmental Protection, and these Rules and Regulations

Section 1104. Construction of water distribution lines or sanitary sewers shall not be permitted until the proper State Permits have been obtained.

Section 1105. Prior to final acceptance of any water distribution line or sanitary sewer extensions by MWAA, it shall be necessary for the developer to furnish to MWAA "Record Drawings" showing the angle and location of all fittings, the location of all valves. manholes and the exact location of all house lateral connections relative to known locations in the field.

Section 1106. Easements shall be recorded in the name of MWAA for all waterlines and sanitary sewer lines to be constructed outside of dedicated street rights-of-way.

Section 1107. All sanitary sewers shall be PVC pipe conforming to American Society for Testing and Materials (ASTM) D2241 Specification for Polyvinyl Chloride (PVC) Plastic pipe (SDR-35). Ductile Iron pipe (minimum Class 52-Epoxy lined) conforming to ANSI A21.51 unless otherwise specified for extraordinary ground conditions by MWAA. All water lines shall be Ductile Iron pipe (minimum Class 52-double cement lined) conforming to ANSI A21.51 unless otherwise specified for extraordinary ground conditions by MWAA.

Section 1108. All mainline water piping shall be a minimum of 6-inch diameter and have a minimum laying length of not less than five feet (5'). All mainline sanitary sewer shall be a minimum of 8-inch diameter and have a minimum laying length of not less than five feet (5'). The minimum slope for a sanitary sewer main shall be 0.5%.

Section 1109. The installation of waterlines and sanitary sewers shall start at the lower elevation end of the line and proceed upgrade so that the spigot ends point in the downhill direction. The pipe shall be carefully laid to line and grade. The handling, placing and jointing of pipe shall be in strict accordance with the pipe manufacturer's recommendations.

Section 1110. All waterlines and sanitary sewer lines shall be subject to a pressure test for leakage and in the manner required by MWAA. All manholes are subject to a vacuum test. All waterlines are subject to bacteriological testing upon completion.

Section 1111. The Developer shall file all necessary connection Permits and pay the applicable service connection and inspection fees for each house or building to MWAA which shall become due and payable prior to inspection and approval by the Inspector for each representative house service lateral (Water or sanitary).

Section 1112. The Developer shall be required to submit complete engineered drawings, specification and detailed computation data. Upon satisfactory review of same by MWAA or the authorized representative, the Developer will be required to enter into a Developer's Agreement with MWAA then post a Performance and Maintenance Bond. The Developer is fully responsible for all costs relative to construction of said project in accordance with the approved Plans and Specifications; the Developers Agreement; and the Rules and Regulations of MWAA.

Section 1113. The Developer shall also reimburse MWAA in full for all costs of legal reviews, engineering reviews, and inspection of construction of all waterlines. The amount and type of inspection required shall be determined by MWAA during construction.

Section 1114. No waterline or sanitary sewer extensions constructed by a Developer shall be approved for use and acceptance by MWAA until said extensions are formally approved by MWAA, all building service connection (water and sanitary sewer) and inspection fees have been paid for each building connected to the system, and MWAA has been reimbursed in full for all legal, engineering, and inspection costs incurred during construction, testing and approval.

Section 1115. All such public components shall be conveyed at no cost to MWAA..

Section 1116. Responsibility for Cost – the entire cost of all work shall be borne by the Developer.

Section 1117. The Developer shall deposit with MWAA, in advance, the estimated cost of each month's work; the amount will be adjusted at the end of each month, in connection with resident engineering, legal and/or inspection services.

Section 1118. Agreement – the applicant shall enter into an Developers Agreement with MWAA as described above, prior to the execution of any work. The agreement will contain such pertinent conditions as the following: n

1. The cost of all work to be borne by the Owner, except as otherwise indicated.

- 2. The highways, streets, alleys, and lanes in which waterline and sanitary sewer extensions are to be located must be dedicated to public use; the lines and grades thereof established, and the rough grading completed.
- 3. The ownership title to all installations to be conveyed to and vested in MWAA, except as otherwise indicated.
- 4. MWAA shall have the right to make further extensions beyond or laterally from the main extensions, and to enlarge or improve all water and wastewater facilities.

Section 1119. General Plans – the applicant shall submit a general plan covering the entire area of the municipality or water/sanitary sewage district in the case of a new water distribution or wastewater collection system, and of any extension or modification of any water distribution or wastewater collection system, unless such a general plan of the entire area of the municipality has already been submitted.

- 1. These plans must show the boundary line of the municipality or water/sewer district to be provided water or sewer service, all existing and proposed streets, watercourses, and other salient topographic features; contour lines with intervals of not less than two feet (2'), and the surface elevations at street intersections and at points where changes of slope occur. The plans must show clearly the locations of all existing water distribution lines and all other utilities.
- 2. In all cases the plans must clearly show the size of the waterlines or sanitary sewer lines, the character of the material, the elevation at the location of all points of change of slope, the locations of all fittings, valves, manholes, booster stations, lift stations, the elevations of all stream beds, the direction of stream flow, the high and low water elevations of all water surfaces, and such other data.

Section 1120. Detailed Plans – the applicant shall submit detailed plans accompanying the general plans.

- 1. Profiles shall be prepared with the horizontal scale at least as large as the scale of the corresponding plans, the vertical scale not smaller than 10 feet to 1 inch; the scales are to be indicated on the plans. The profiles shall indicate all the applicable details as set forth relative to the general plans.
- 2. Detailed plans shall include plans of all waterlines, sanitary sewer lines, waterline appurtenances, sewer line appurtenances, manholes, lift stations, booster stations, structures of all types and such other features.

Section 1121. Report – the application shall be accompanied by an engineer's report giving a full description of the proposed system and setting forth the basis of design, prepared in accordance with the Pennsylvania Department of Environmental Protection requirements. This report may be in the form of a "Module" as submitted to the Pennsylvania Department of Environmental Protection. The report must include a statement and description of the extent of area which it is proposed to include within the system at the present time and in the future, the estimated per capita rates or volume of water and/or wastewater to be provided for, and such other data and information.

Section 1122. Maintenance Bond Requirements – prior to acceptance of any portion of any line or lines from a developer, the developer must provide MWAA with a maintenance bond supplied by a bonding company licensed to do business within the Commonwealth of Pennsylvania wherein the bonding company as surety will be firmly bound to MWAA to remedy, without cost to MWAA, any defect which may develop in the line during a period of eighteen (18) months from the date of acceptance of the lines, including the work and material utilized by the developer in installing the lines that MWAA will accept. The maintenance bond must guarantee that any defect caused by defective or inferior material or workmanship will be remedied without cost to MWAA during a period of eighteen (18) months from the date of acceptance of the lines.

The maintenance bond shall be in the amount of fifteen percent (15%) of the actual cost of installation of the lines to be accepted by MWAA. The cost of installation is to be determined by MWAA's Engineer, and the developer must submit to MWAA all reasonable documentation requested by MWAA or its Engineer so as to allow MWAA to set the amount of the bond.

No connection may be made into the lines and no sewer service will be issued by MWAA until MWAA has accepted the line or any portion of the lines constructed by a developer.

MWAA's acceptance shall be in writing and delivered to the developer indicating the exact date of acceptance. No acceptance of the lines will be performed until all work is performed in complete satisfaction to MWAA's Engineer and the maintenance bond is posted with MWAA.

Section 1123. Performance Bond Requirements:

1. If any line or any part thereof is to provide service to a parcel of property that is part of a subdivision, or a subdivision plan, the developer must cause to be filed and posted with MWAA, an initial deposit as determined by MWAA to guarantee that MWAA will be reimbursed for all costs of engineering fees, inspection of construction, and/or legal expenses incurred in review and/or right-of-way acquisition for the proposed extension of the system by the developer.

The developer must also cause to be posted with MWAA, prior to recording of any subdivision or subdivision plan served by the proposed extension, a performance bond in the

amount of 110%, of the engineers estimate of the cost of construction of all potable water and sanitary service line that will serve the subdivision including any offsite improvements.

Section 1124. All improved and unimproved surface restoration shall comply with the governing regulation of the Municipality the work is conducted in.

ARTICLE XII DELINQUENCIES, VIOLATIONS AND REMEDIES

Section 1201. Quarter annual charges for services under these Rules and Regulations shall be net and shall be subject to a penalty of 10 percent if remaining unpaid within ten days after the date of the bill. Bills for water service shall be paid at the office of the Municipal Water Authority of Aliquippa, 160 Hopewell Avenue, Aliquippa, Pennsylvania. In the event of a delinquent account for either water or sewage, or both, after the tenth of the month following the original billing, the water service may be shut off. If not paid within 90 days after such date, the bill plus the penalties shall thereafter bear interest at the rate of one-half of one percent per month or fraction thereof until paid. Service for water or sewage will not be restored until all delinquent bills against the same and the cost of cutting off and restoring service shall have been paid.

Section 1202. All charges for services under the Resolutions, Rules and Regulations together with all penalties thereon, not paid in full shall be deemed to be delinquent. All delinquent charges and all penalties thereon shall be a lien on the property served and shall be entered as a lien against such property in the office of the Prothonotary of Beaver County, and shall be collected in the manner prescribed by law for the filing and collection of such liens.

Section 1203. No abatement of charges will be allowed for vacancy of Premises except from the date that notice in writing has been given to MWAA that the Premises are unoccupied, in which event MWAA will shut off the water and no charge for water will be made during the period of such vacancy. No abatement will be allowed for a period less than the regular billing period of the customer.

ARTICLE XIII VALIDITY

Section 1301. All resolutions or parts of resolutions which are in conflict with any Article or Section of this resolution shall be deemed to be repealed to the extent of such conflict. Further, the invalidity of any section, clause, sentence, or provision of this resolution shall not affect the validity of any other part of this resolution which can be given effect without such invalid parts or parts, and if any one or more of the provisions of this resolution shall for any reasons be held to be illegal or invalid or otherwise contrary to law, then such provisions shall be null and void and shall be deemed separable from the remaining provisions hereof, but shall in no way otherwise affect the validity of this resolution.

Section 1302. MWAA reserves the right to, and may, from time to time, revise, amend and readopt such Rules and Regulations as it deems necessary and proper for the use and operation of the Water Distribution System.

APPROVED AND ADOPTED THIS _/1/2/ DAY OF Decembere, 20 / 4

By:

ATTEST

cia A. Gumes

Secretary

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

(SEAL)

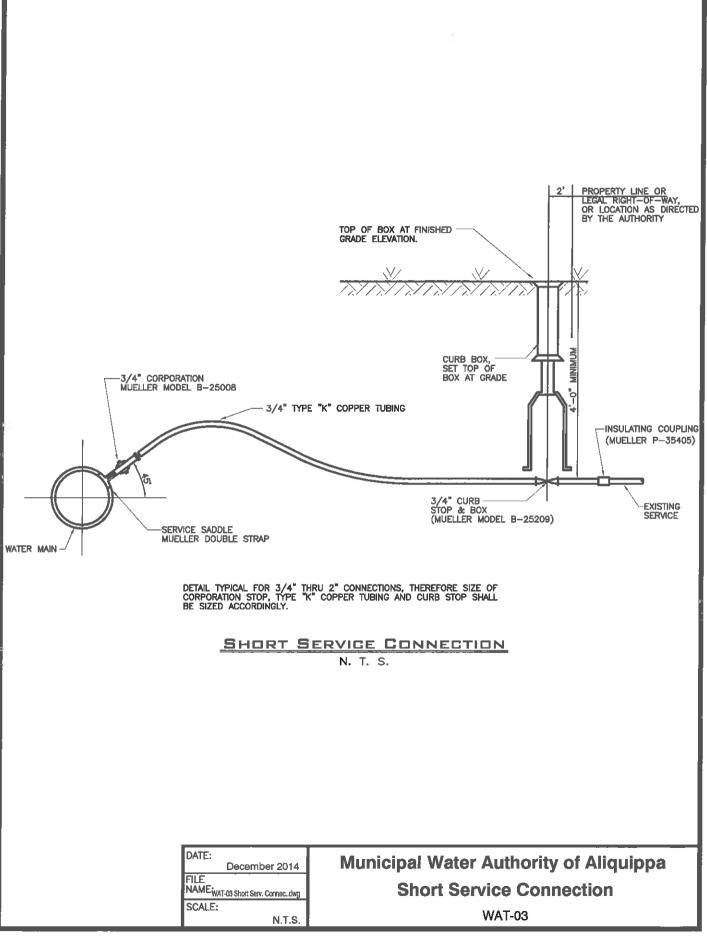
ARTICLE XIV CONSTRUCTION TYPICAL DETAILS ADOPTED BY THE MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

WATER DETAILS

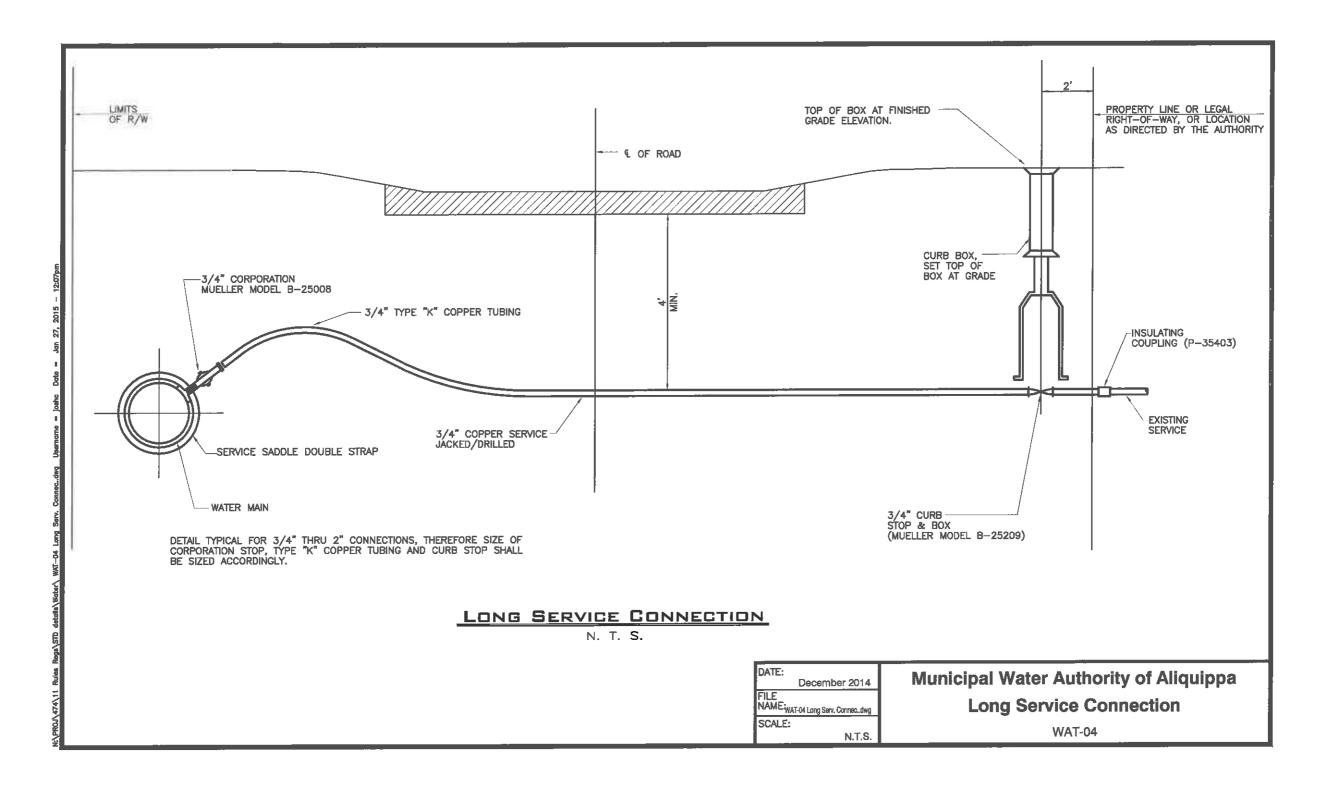
- WAT-1 2" Blow-Off Assembly
- WAT-2 1" Blow-Off Assembly
- WAT-3 Short Service Connection
- WAT-4 Long Service Connection
- WAT-5 Gate Valve Assembly
- WAT-6 Fire Hydrant Assembly
- WAT-7A Water Line Vertical Blocking (150 psi)
- WAT-7B Water Line Vertical Blocking (300 psi)
- WAT-8 Air Vacuum Release Manhole
- WAT-9 1" and 2" Meter Setter
- WAT-10 5/8" Residential Meter Pit
- WAT-11A Horizontal Thrust Blocking (150 psi)
- WAT-11B Horizontal Thrust Blocking (300 psi)
- WAT-12 Special Backfill
- WAT-13 Concrete Anchor
- WAT-14 Concrete Cradle
- WAT-15 Concrete Encasement
- WAT-16 Casing Pipe Assembly
- WAT-17 Utility Separation
- WAT-18 Industrial / Commercial Meter Pit
- WAT-19 Trench and Pipe Zone

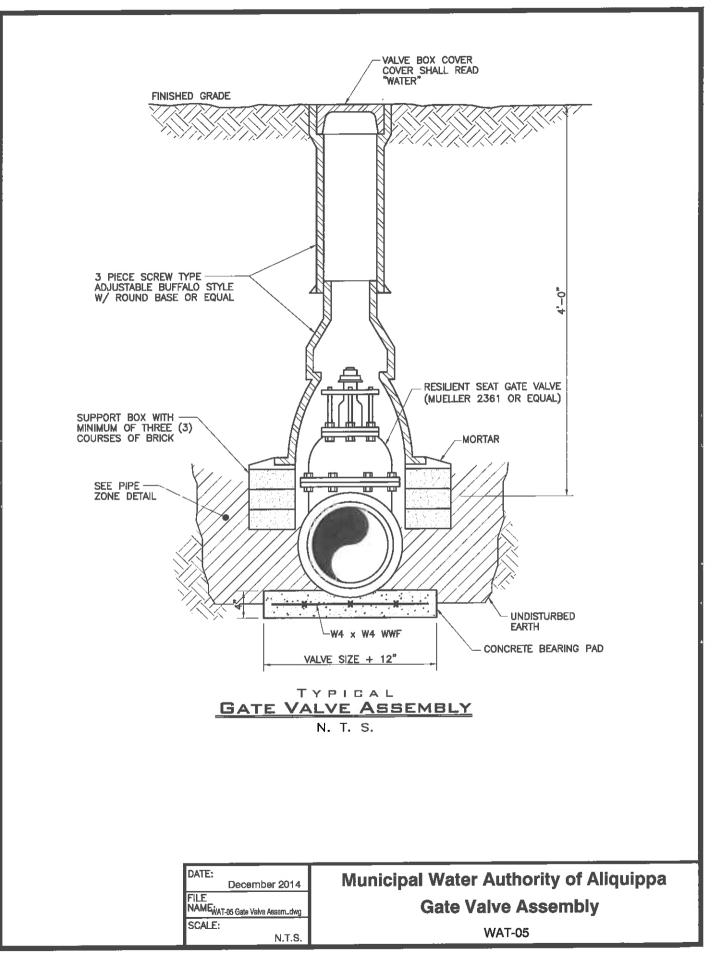
BUFFALO TYPE 2 CI CURB BOXES 2" PLASTIC PLUG 2 PIECE 6" MAXIMUM DEPTH /BELOW FINISH GRADE FINISH GRADE <u> MIKIKIK</u> XX 5 2" RED BRASS COUPLING-THREADED MINIMUM COVER . • NPT ==0 MECHANICAL JOINT 48" RED BRASS 2" RED BRASS NIPPLE/ T 2" 90' RED BRASS ELBOW BLOCKED 1/4"ø DRAIN HOLE 2" CURB STOP (MUELLER 300 BALL) MJ PLUG WITH TAP NOTES: 1. ALL PIPE AND FITTINGS TO BE LOW LEAD COMPLIANT RED BRASS. 2. PLACE 2 CU. FT. OF STONE UNDER DRAIN HOLE. 2" BLOW-OFF ASSEMBLY N. T. S. DATE: **Municipal Water Authority of Aliquippa** December 2014 FILE NAMEWAT-01 Blow-off Assem..dwg 2" Blow-off Assembly SCALE: WAT-01 N.T.S.

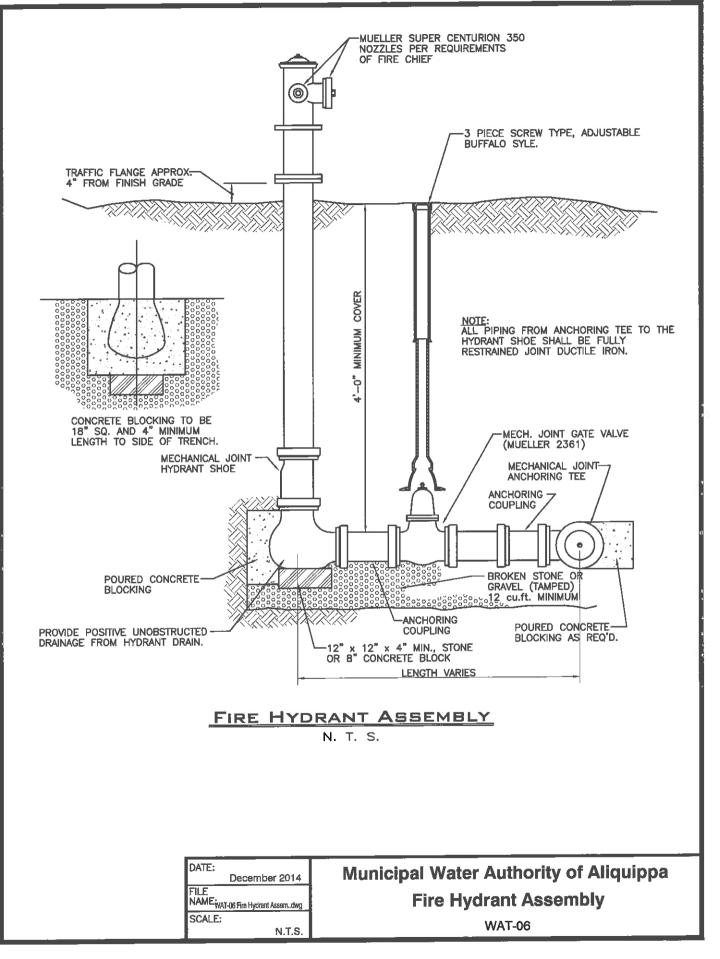
DISTANCE VARIES HOSE THREAD EXISTING GROUND OR FINISHED GRADE \mathbb{V} \mathbb{V} $\sqrt{}$ BUFFALO TYPE 2 C.I. CURB BOXES 2 PIECE 4"-O" MINIMUM 1" CORPOR-1" TYPE "K" COPPER TUBING , ٥ WATER . MAIN 1° CURB STOP WITH DRAIN, BALL TYPE, COMBINED TEE AND CAP WITH CHECK 1" TYPE "K" SERVICE SADDLE DOUBLE STRAP 3 CUBIC FT. STONE NOTES: PIPE SIZES 4" THRU 12" FOR CLASS 52 DUCTILE IRON PIPE, CAST IRON AND CAST IRON O.D. PVC PIPE, USE MUELLER BRONZE DOUBLE STRAP THREADED SERVICE CLAMP OR EQUAL. 1. 2. SIZE OF FITTINGS AND LINE SHALL BE 1" OR AS SHOWN ON THE DRAWINGS. 3. LAY COPPER TUBING ON STONE BEDDING. 4. CURB STOP SHALL BE MUELLER BALL. CORPORATION STOP SHALL BE MUELLER BALL. 5. 1" BLOW-OFF ASSEMBLY N. T. S. DATE: **Municipal Water Authority of Aliquippa** December 2014 FILE NAME: WAT-02 Blow-off Assem..dwg **1" Blow-Off Assembly** SCALE: **WAT-02** N.T.S.

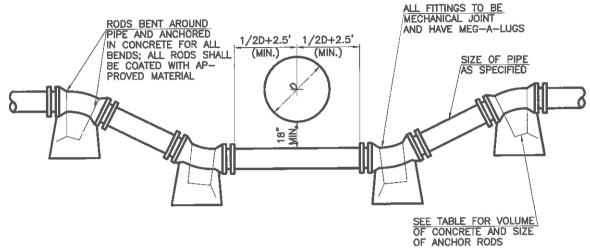


Jan 27, 2015 - 12:07pm I, Date = josho Usemame W.\PROJ.474/11 Rules Regs/STD details/Wdter/ WMT-03 Short Serv. Connec.dwg layout = Short Service Connection Detail









TOTAL		VOLUME IN CUBIC FEET			SIZE AND No. OF ANCHORS		
SIZE	DOFCOLIDE	45* BENDS	22.5" BENDS	11.25 BENDS	45" BENDS	22.5 BENDS	11.25 BENDS
4	3900	20	10	5	1-#4	1-#4	1-#4
6	7200	37	19	9	2-#4	1-#4	1-#4
8	11800	60	31	15	2-#4	2-#4	1-#4
10	17100	87	45	22	2-#4	2-#4	2-#4
12	23700	122	62	31	2-#5	2-#4	2-#4

NOTES:

1. THE TABLE IS BASED ON 150# TEST PRESSURE.

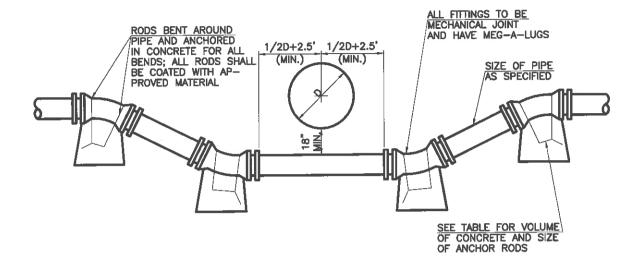
2. REINFORCE ALL BLOCKS WITH #4 AT 6" E.F. MINIMUM 3" FROM ALL SIDES.

	ТҮІ	PIC	3 A L	
WATER	LINE VE	RT	ICAL	BLOCKING
	N.	Τ.	S.	

DATE:	
December 2014	
FILE NAMEWAT-07A Verticle Blk 150psi.dwg	
SCALE:	
N.T.S.	

Municipal Water Authority of Aliquippa Water Line Vertical Blocking (150 PSI)

WAT-07A



DIDE TOTAL		VOLUME	OLUME IN CUBIC FEET		SIZE AND No. OF ANCHORS		
PIPE SIZE	PRESSURE	45° BENDS	22.5" BENDS	11.25' BENDS	45 BENDS	22.5* BENDS	11.25" BENDS
4	3900	40	20	10	1-#5	1-#5	1-#5
6	7200	74	36	18	2-#5	1-#5	1-#5
8	11800	120	62	36	2-#5	2-#5	1-#5
10	17100	174	90	44	2-#5	<u>2-#5</u>	2-#5
12	23700	244	122	62	2-#5	2-#5	2-#5

NOTES:

1. THE TABLE IS BASED ON 300# APPLIED PRESSURE.

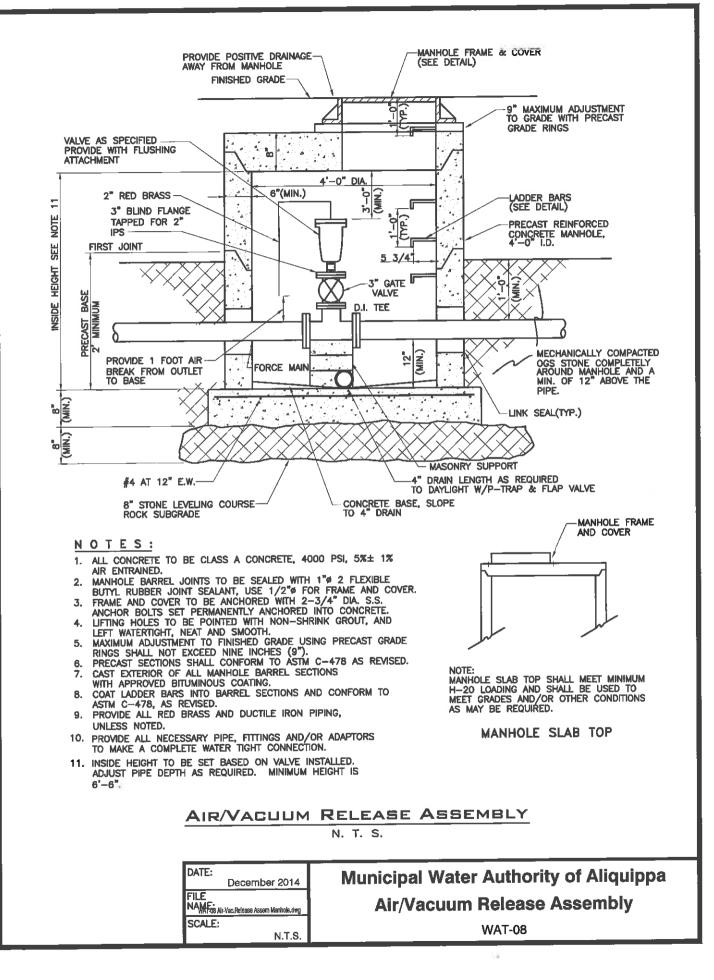
2. REINFORCE ALL BLOCKS WITH #5 AT 6" E.F. MINIMUM 3" FROM ALL SIDES.

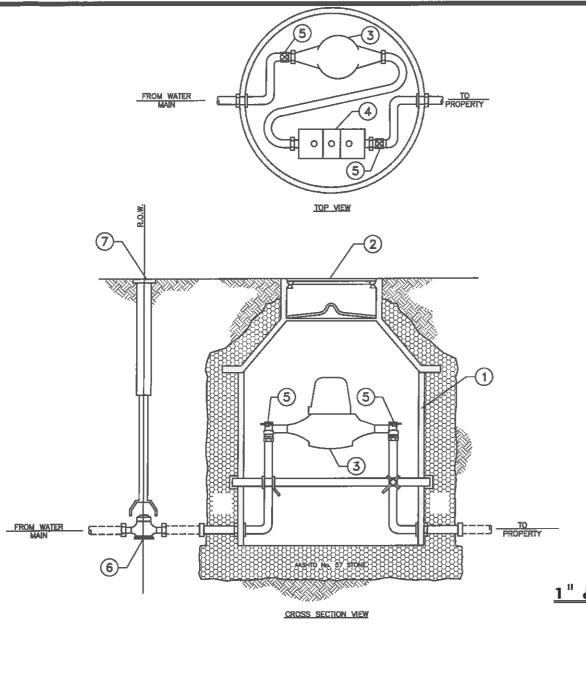


DATE:	November 2013
FILË NAME;;	T-07B Verticle Blk 300psi.dwg
SCALE	
	N.T.S.

Municipal Water Authority of Aliquippa Water Line Vertical Blocking (300 PSI)

WAT-07B





1" METER SETTING NOTES:

- 1. FORD PLASTIC PIT SETTER OR APPROVED EQUAL 18" DIAMETER OR 20" DIAMETER PVC CYLINDER (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 2. WABASH DOUBLE LID COVER AS MANUFACTURED BY FORD WITH INSULATION BLANKET OR APPROVED EQUAL (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 3. 1" WATER METER (PROVIDED BY MWAA).
- 4. 1" WATT 007, MEETING NSF 61, TESTABLE TYPE DOUBLE CHECK VALVE ASSEMBLY OR APPROVED EQUAL (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 5. SHUT OFF VALVE (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 6. 1" CURB STOP (MUELLER 300 BALL VALVE), (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER). 7. BUFFALO TYPE CURB BOX 3 PIECE.

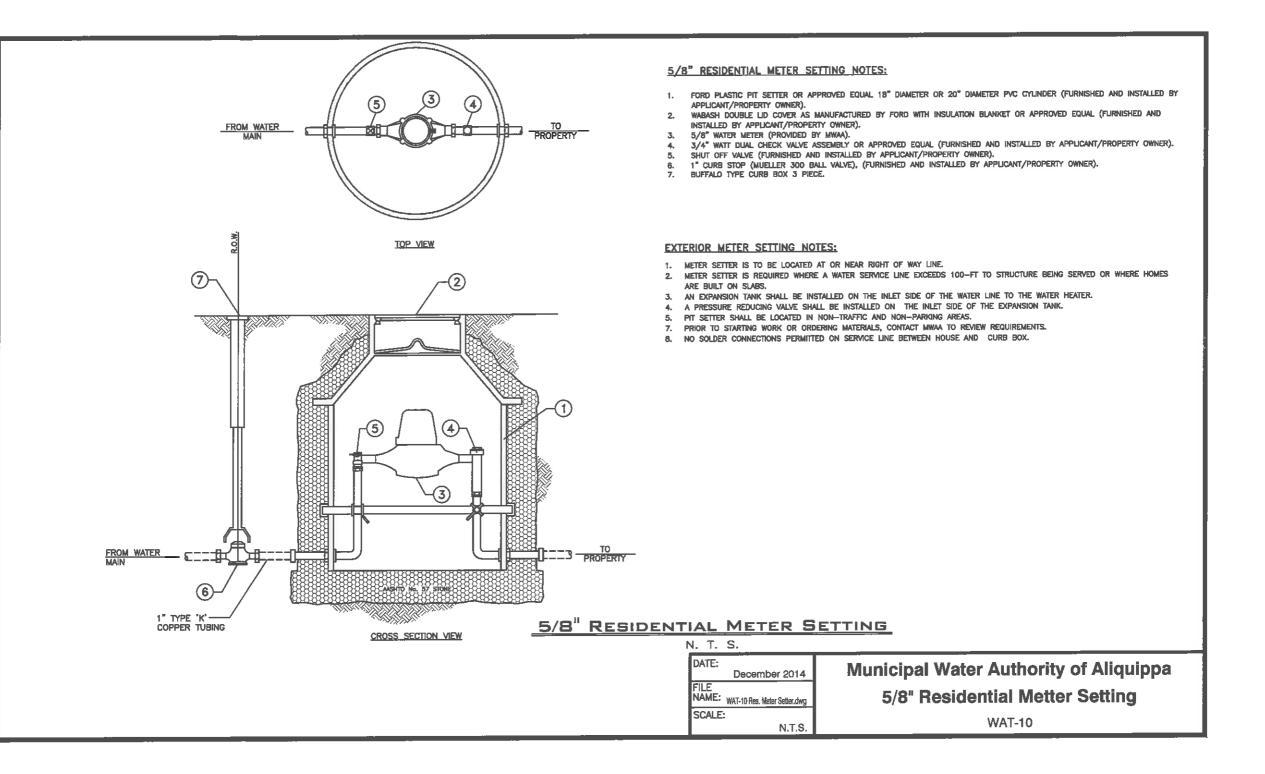
2" METER SETTING NOTES:

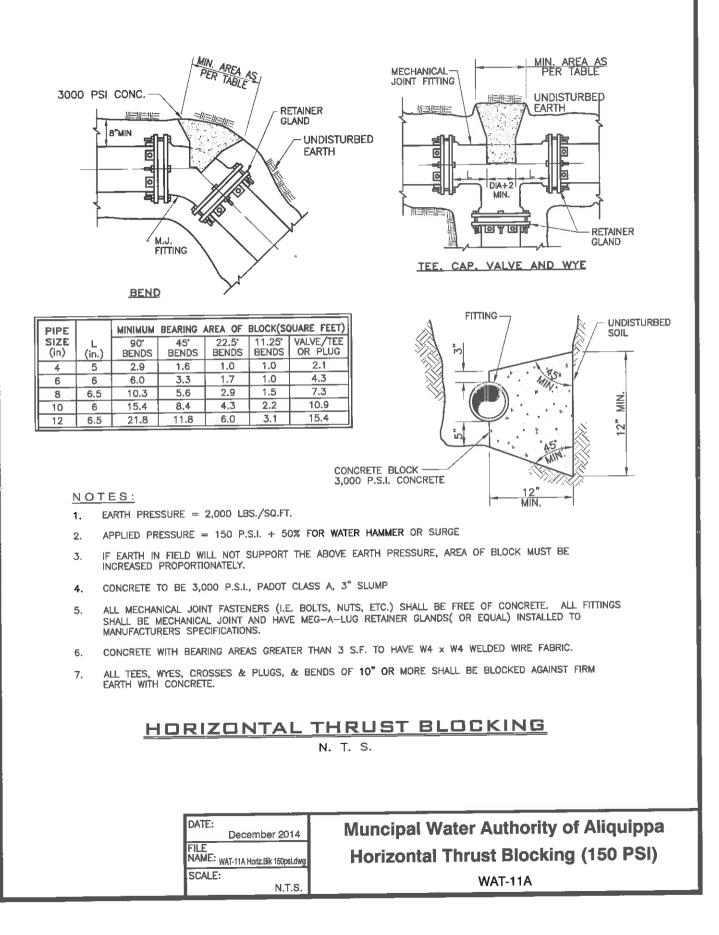
- 1. FORD PLASTIC PIT SETTER OR APPROVED EQUAL 18" DIAMETER OR 20" DIAMETER PVC CYLINDER (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 2. WABASH DOUBLE LID COVER AS MANUFACTURED BY FORD WITH INSULATION BLANKET OR APPROVED EQUAL (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 3. 2" WATER METER (PROVIDED BY MWAA).
- 2" WATT 007, MEETING NSF 61, TESTABLE TYPE DOUBLE CHECK VALVE ASSEMBLY OR APPROVED EQUAL (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 5. SHUT OFF VALVE (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 5. 2" CURB STOP (MUELLER 300 BALL VALVE), (FURNISHED AND INSTALLED BY APPLICANT/PROPERTY OWNER).
- 7. BUFFALO TYPE CURB BOX 3 PIECE.

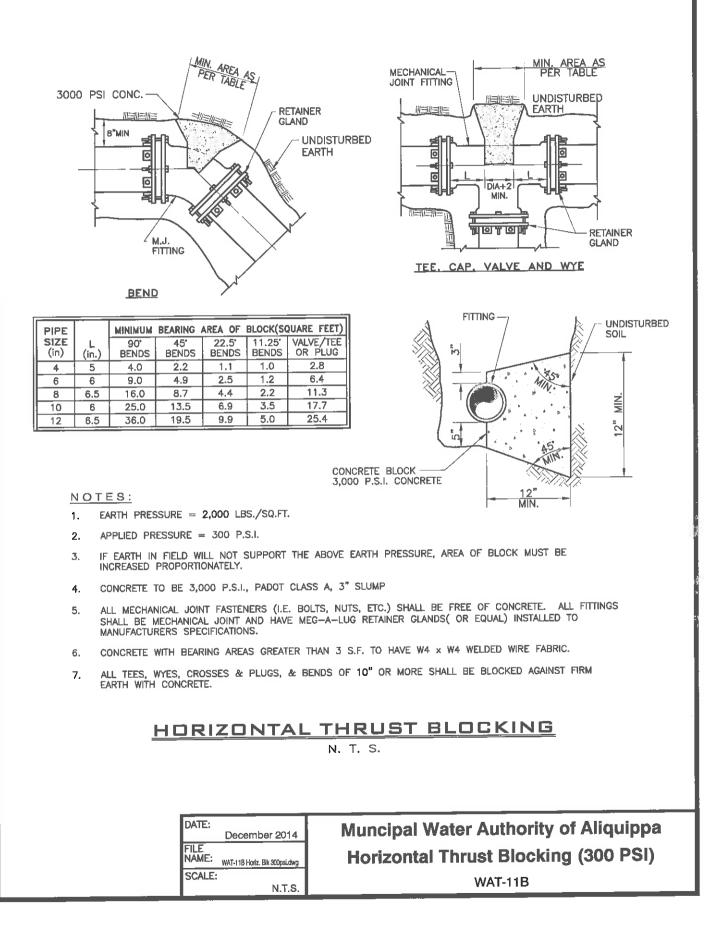
1" & 2" METER SETTING

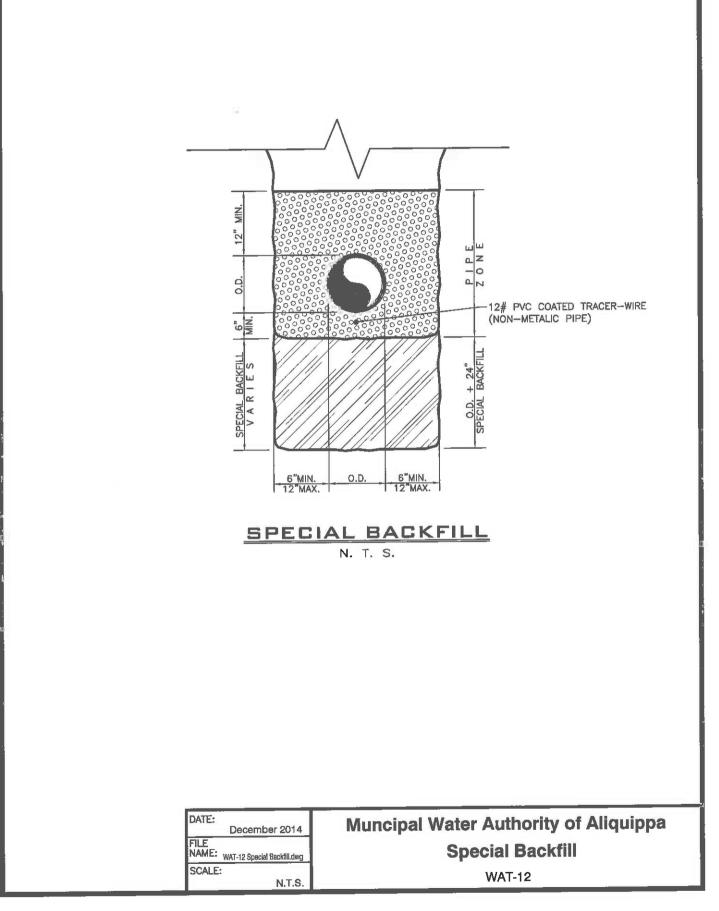
N. T. S.

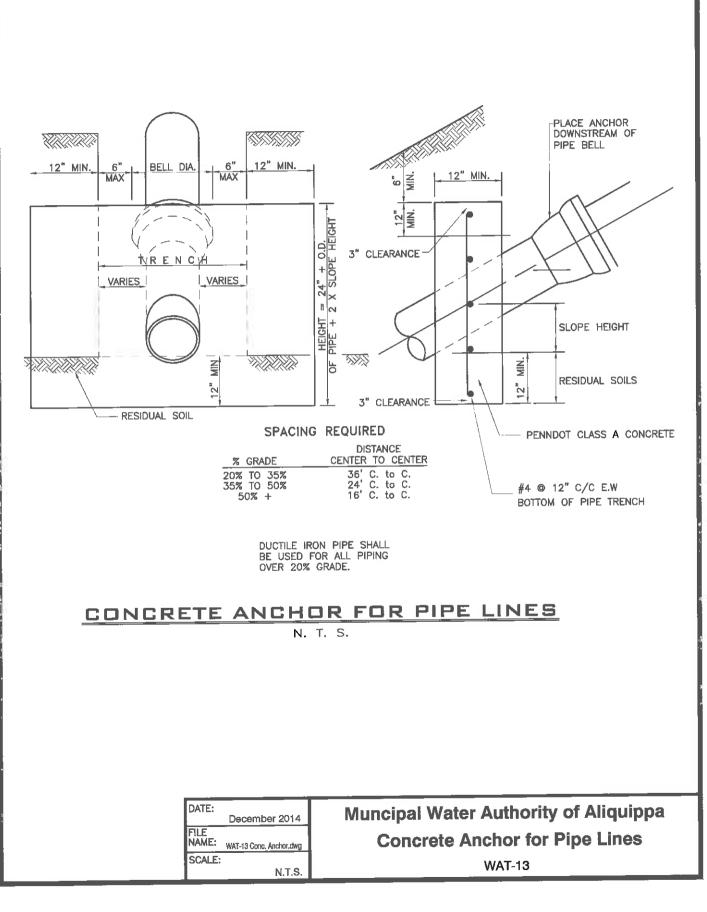
DATE:
December 2014
FILE
NAWRT-09 Meter Setter.dwg
SCALE:
N.T.S.
WAT-09



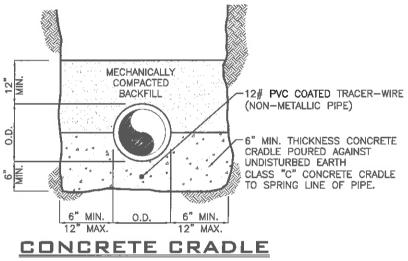








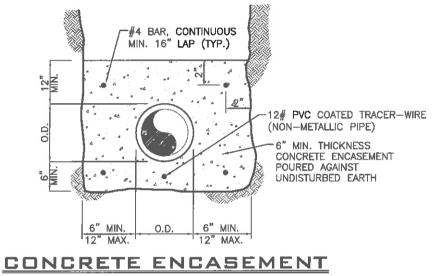
Jan 27, 2015 - 12:17pm I, Date otto layout = Concrete Anchor N:\PROJ\474\11 Rules Regs\STD details\Water\ WAT-13 Conc. Anchor.deg



N. T. S.

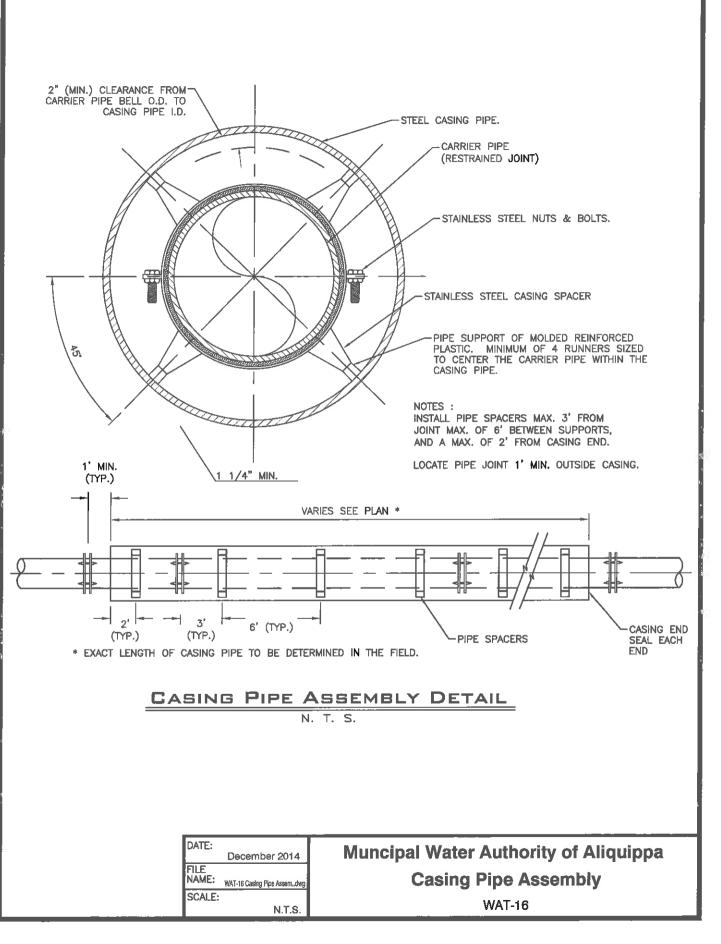
DATE: November 2013	Muncipal Water Authority of Aliquippa
FILE NAME: WAT-14 Conc. Cradle.dwg	Concrete Cradle
SCALE: N.T.S.	WAT-14

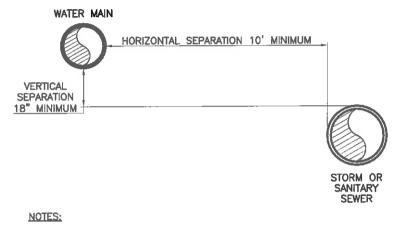
4



N. T. S.

Municipal Water Authority of Aliquippa
Concrete Encasement
WAT-15





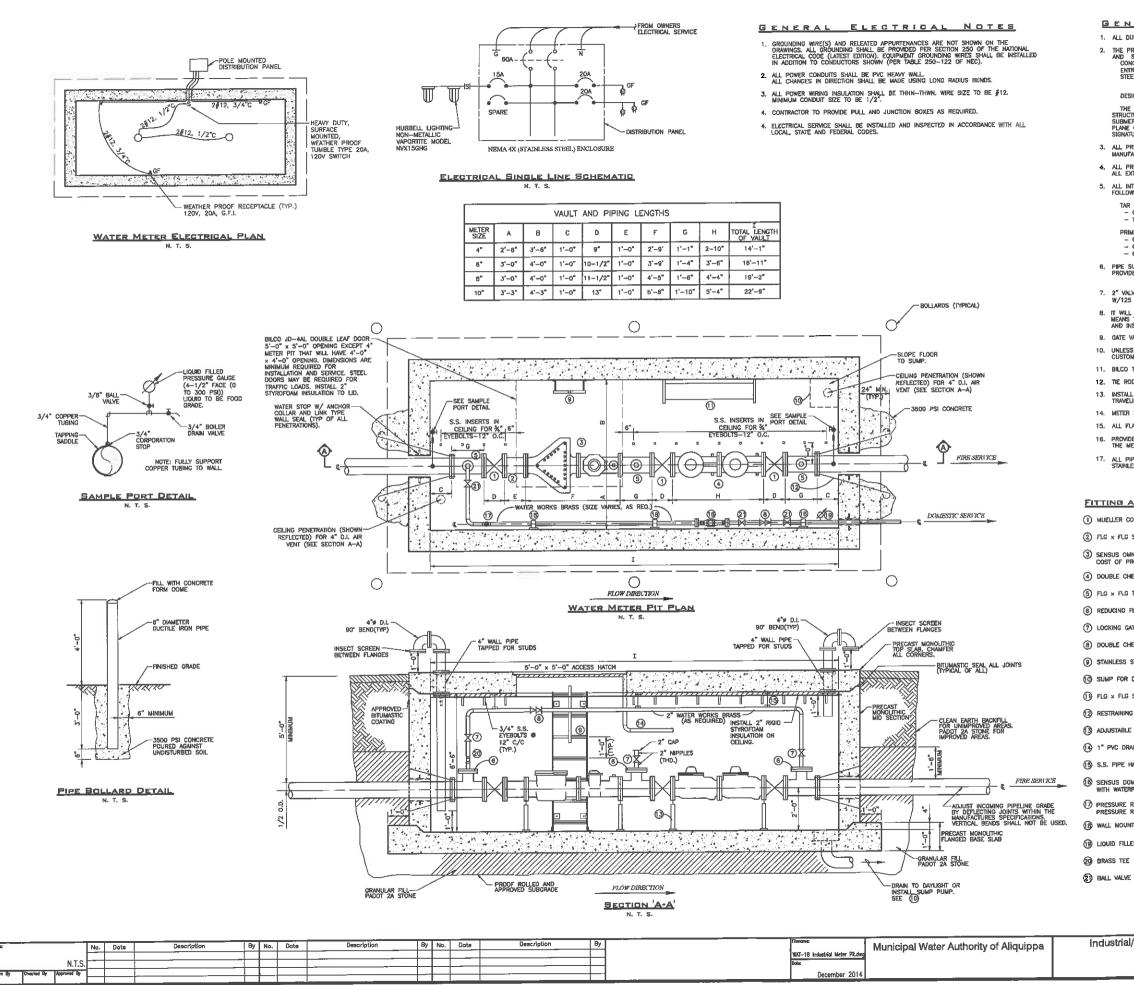
1. WHEN THE HORIZONTAL SEPARATION OF THE WATER MAIN AND SEWER LINE IS LESS THAN 10', THE VERTICAL SEPARATION BETWEEN THE TOP (CROWN) OF THE SEWER LINE AND THE BOTTOM (INVERT) OF THE WATER MAIN SHALL BE AT LEAST 18". WATERLINE SHALL BE ENCASED IN CONCRETE WHERE SEWER / WATERLINE CROSSINGS OCCUR AND, WHERE THE CONDITIONS PREVENT AN 18" VERTICAL SEPARATION.

2. NO OTHER UNDERGROUND UTILITIES, SUCH AS GAS, ELECTRIC, TELEPHONE, OR CABLE, SHALL BE PLACED ABOVE THE WATERLINE OR WITHIN FIVE FEET OF EACH SIDE OF THE WATERLINE.

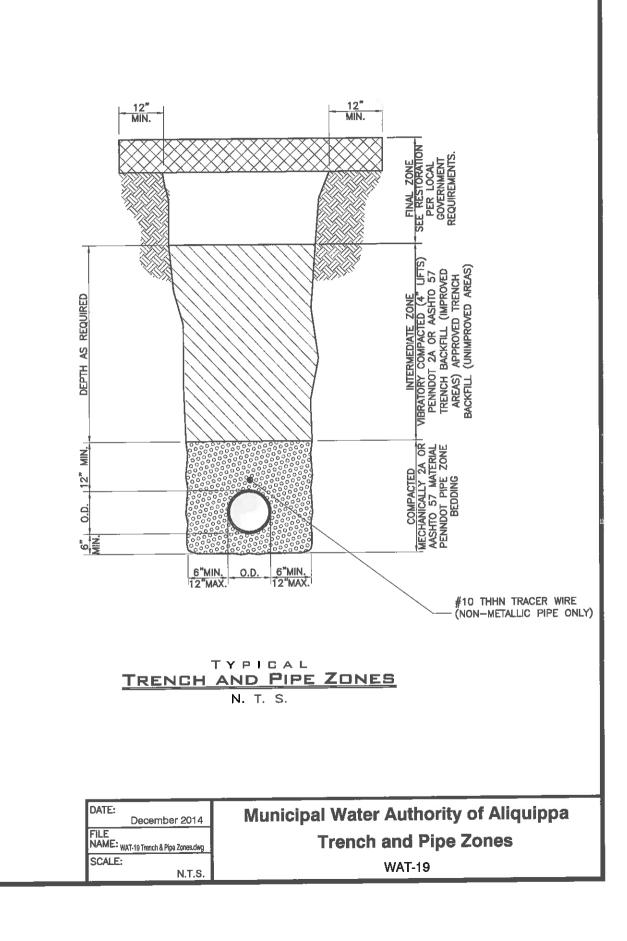
UTILITY SEPARATION

N. T. S.

DATE:	December 2014	Municipal Water Authority of Aliquippa	
FILE NAME:	WAT-17 Utility Seperation.dwg	Utility Separation	
SCALE:	N.T.S.	WAT-17	



NERAL NOTES					
DUCTLE IRON PIPING SHALL BE CLASS 52 HAVING A MIN					
PRECAST CONCRETE METER PIT SECTIONS SHALL BE FURNISHED TO THE DIMENSIONS SHOWN SHALL BE BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING: ONCRETE - 4000 PSI 00 28 DAYS TITAINED AIR - 5% (±1%) TEEL - ASTM 4496-4615 - GRUE 60					
DESIGN LOADING - AASHTO HS-25 WITH 30% IMPACT AND					
IE PRECAST CONCRETE METER PIT SHOP DRAWINGS SHALL BE ACCOMPANIED BY COMPLETE CTURAL AND UPLIFT DESIGN CALCULATIONS. UPLIFT CALCULATIONS SHALL ASSUME COMPLETE REGRENCE OF THE METER PIT. SOIL RESISTANCE TO UPLIFT SHALL BE EVALUATED IN A VERTICAL E ONLY ASOVE THE FLANGED BASE. ALL DESIGN CALCULATIONS SHALL BEAR THE SEAL AND TURE OF A REGISTERED PROFESSIONAL ENGINEER LIGENSED IN THE STATE OF PA.					
PRECAST METER PIT JOINTS SHALL BE BOLTED TOGETHER INFACTURER'S SPECIFICATIONS.	AND SEALED WATERTIGHT PER THE				
PRECAST METER PIT SECTIONS SHALL HAVE A WATERPROC EXTERIOR SURFACES BELOW FINISHED GRADE.					
INTERIOR PLPING, FITTINGS, VALVES, ETC. SHALL BE PAINT LOWING OR APPROVED EQUIVALENT:	ED BLUE ACCORDING TO THE				
AR COATED APPURTENANCES. — ONE(1) COAT TNEMEC SERIES 1 OMINITHANE MIC-ZINC — TWO(2) COATS TNEMEC SERIES 446 PERMA-SHIELD MC	MCU 🛛 3.0-4.0 MILS OFT U 🗢 6.0-6.0 MILS DFT PER COAT.				
RIMED OR UNPAINTED APPURTENANCES – ONE(1) COAT THEMEC SERIES 1 OMNITHANE MICI-ZINC – ONE(1) COAT TNEMEC SERIES 27 TYPOXY POLYAMIDE E – ONE(1) COAT TNEMEC SERIES 73 ENDURA-SHIELD ALIP	MCU © 3.0-4.0 MILS OFT. POXY © 2.0-3.0 MILS DFT. HATIC ACRYLIC URETHANE © 2.0-3.0 MILS DFT.				
E Supports, the RCDS, anchors and thrust restraint wided sufficient, to allow piping to stand with REM	AT FITTINGS AND VALVES SHALL BE DVAL OF METERS, FRICTION CLAMPS OR FLANGES.				
VALVES AND UNDER ARE I.P.S. 4" VALVES AND OVER ARE 125 P.S.I. DRILLING.	FLANGED - 125 P.S.I, CLASS FLANGE				
ILL BE NECESSARY FOR THE CUSTOMER TO INSTALL PROP NS TO KEEP VAULT DEWATERED. ALL SUBMITTALS SHALL INSTALLATION.	ER GRAVITY DRAINAGE OR OTHER MECHANICAL BE APPROVED BY MWAA PRIOR TO FABRICATION				
E VALVES AND PIPING SHOULD BE SAME SIZE AS METER, ESS NOTED OTHERWISE, ALL COMPONENTS SHALL BE FURN TOMER IN ACCORDANCE WITH MWAA RULES AND REGULATIO	IISHED, INSTALLED AND MAINTAINED BY THE				
O TYPE BOOR TO BE CENTERED OVER METER ASSEMBLY	AND ACCESS LADDER.				
RODS TO BE EMBEDDED IN CONCRETE. WWAA TO INSPECT ALL PIPE BOLLAROS AROUND PERIMETER OF METER PIT TO					
VELING OVER PIT.					
er sizes to be determined by the mwaa based on ac Flange bolts to be stainless steel	JUAL WAIER REQUIREMENTS.				
MDE SUFFICIENT STRAIGHT RUNS OF WATERLINE BEFORE A METER MANUFACTURER.	ND AFTER METERS AS RECOMMENDED BY				
PIPING BELOW 4" TO BE WATER WORKS BRASS MEETING NLESS STEEL WILL BE ACCEPTED AS AN ALTERNATIVE.	CURRENT NO LEAD REQUIREMENTS.				
AND EQUIPMENT SCHEDULE					
CO. 2360 SERIES RESILIENT SEATED FLG x FLG GATE VA	LVE WITH RISING STEM (COUNTER CLOCKWISE OPEN)				
LG SPOOL PIECE					
OMNI F2 METER ASSEMBLY WITH WATERPROOF REGISTER A PROPERTY OWNER)	ND TOUCH READ PAD (FURNISHED BY MWAA AT				
CHECK BACK FLOW PREVENTOR (WATTS SERIES 709)					
.G TEE					
G FLANGE					
GATE VALVE					
CHECK BACK FLOW PREVENTOR (PER MWAA)					
S STEEL LADDER WITH S.S. EXTENSION POST (HALLIDAY PI					
R DRAIN (INSTALL SUMP PUMP IF REQUIRED - SEE GENE	RAL NOTE 8 ABOVE)				
LG SPOOL PIECE TO MATCH LENGTH OF METER ASSEMBLY					
ing rods 3/4" dia 8 required (4 per fitting)					
BLE GALVANIZED STEEL PIPE SUPPORT (AS REQ., MINIMUM					
drain. For gutter of hatch to sump/drain (s.s. supp	PORT TO WALL)				
E HANGERS (QUANTITY AS REQUIRED)					
Domestic water meter (i-pearl for meters 1" and 5 Terproof register and radio read pad (furnished by	MALLER, OMNIC 2 FOR METERS GREATER THAN 1") / WWWA AT COST OF PROPERTY OWNER)				
e Reducing Valve - PRV (note that multiple PRVs may be required to obtain the desired					
e reduction) UNTED stanless steel pipe support (quantity as required)					
ILLED PRESSURE GAUGE (4-1/2" FACE)					
EE					
VE .					
	1				
al/Commercial Meter Pit Detail (4" through 10")	Industrial/Commercial Meter Pit Detail (4" to 10")				
(WAT - 18)	Drowing No. Short No.				

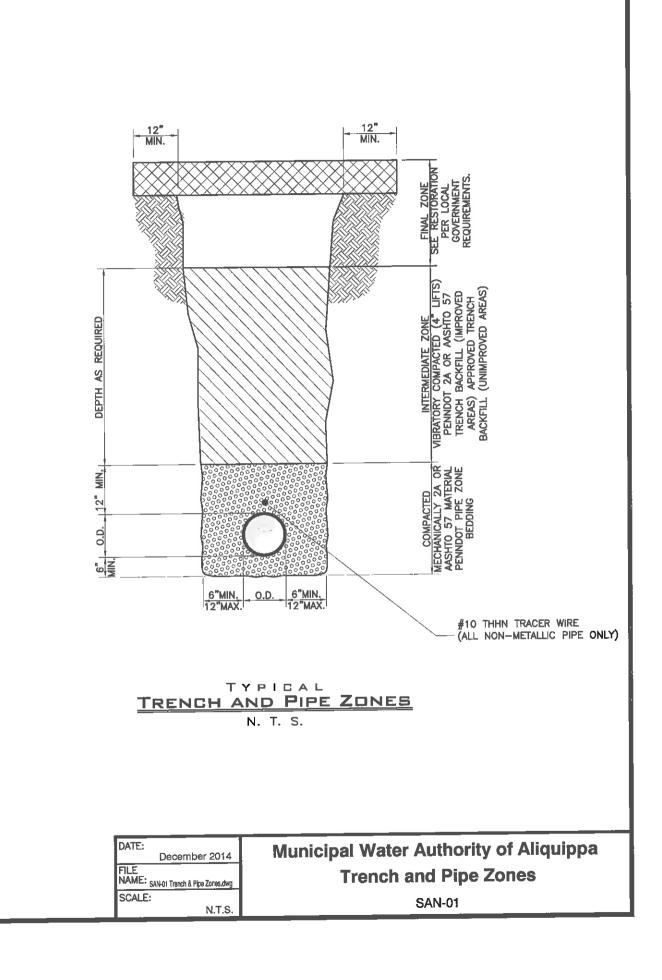


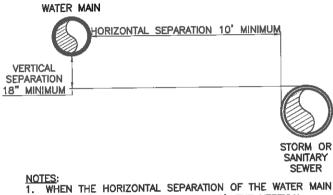
ARTICLE XIV CONSTRUCTION TYPICAL DETAILS ADOPTED BY THE MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

SANITARY DETAILS

- SAN-1 Trench and Pipe Zones
- SAN-2 Utility Separation
- SAN-3 Concrete Anchor
- SAN-4 Forcemain Horizontal Thrust Blocking
- SAN-5 Forcemain Vertical Blocking
- SAN-6 Air Vacuum Release Assembly
- SAN-7 Concrete Cradle
- SAN-8 Concrete Encasement
- SAN-9 Casing Pipe Assembly
- SAN-10 Forcemains Under Obstruction
- SAN-11 Trench Drain
- SAN-12 Precast Concrete Sanitary Manhole and Slab Top
- SAN-13 Cast In Place or Precast Concrete Sanitary Manhole (5-foot diameter)
- SAN-14 Inside Manhole Drop Connection
- SAN-15 Manhole Channels
- SAN-16 Ladder Bars for Manhole
- SAN-17 Standard Sanitary Manhole Frame and Cover
- SAN-18 Watertight Sanitary Manhole Frame and Cover (Inner Cover Option)
- SAN-19 Typical Sight Tee, Service Line Cleanout and Vent
- SAN-20 Wye Connection, Service Lateral, and Sight Tee (New Service)
- SAN-21 Wye Connection, Service Lateral, and Sight Tee (Existing Service)
- SAN-22 Sewer Termination Manhole Repair

Jan 27, 2015 - 4:34<u>pm</u> . Date)oeho Usemame layout - Trench And Pipe Zonee N:\PROX\474\11 Rules Regs\STD detalls\Sanitary\ SAV-01 Tranch & Pipe Zones.dwg



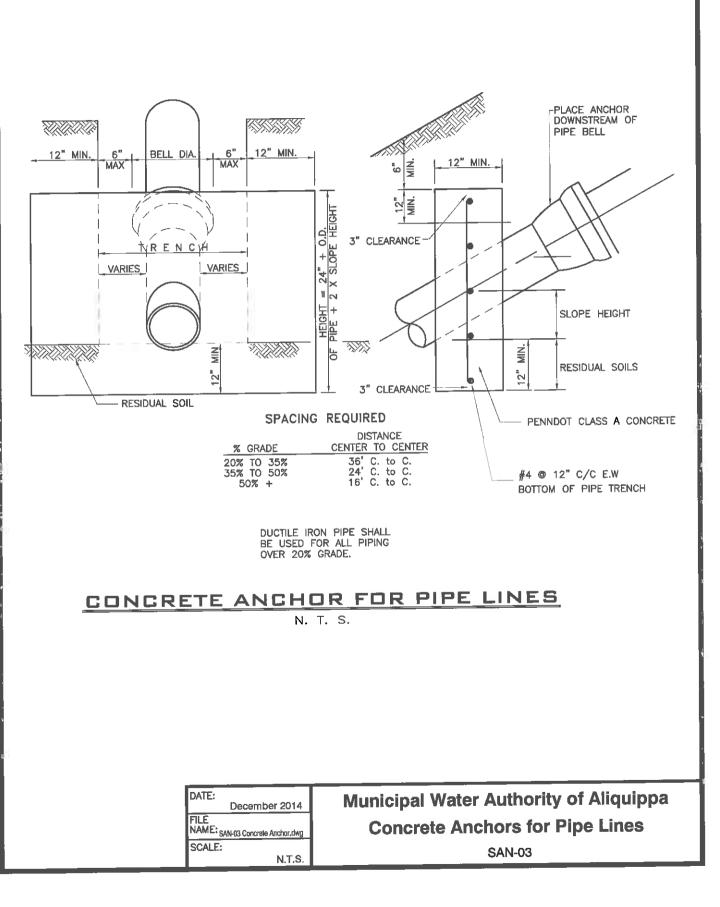


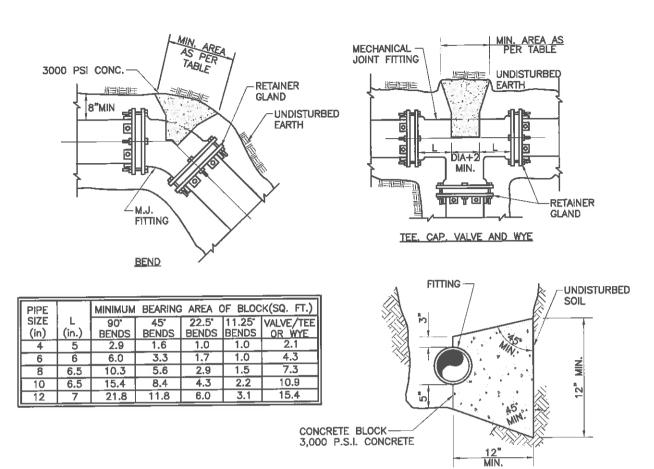
- WHEN THE HORIZONTAL SEPARATION OF THE WATER MAIN AND SEWER LINE IS LESS THAN 10', THE VERTICAL SEPARATION BETWEEN THE TOP (CROWN) OF THE SEWER LINE AND THE BOTTOM (INVERT) OF THE WATER MAIN SHALL BE AT LEAST 18", ENCASE WATERLINE IN CONCRETE WHERE SEWER / WATERLINE CROSSINGS OCCUR AND, WHERE THE CONDITIONS PREVENT AN 18" VERTICAL SEPARATION.
- 2. NO OTHER UNDERGROUND UTILITIES, SUCH AS GAS, ELECTRIC, TELEPHONE, OR CABLE, SHALL BE PLACED ABOVE THE WATERLINE OR WITHIN THREE FEET OF EACH SIDE OF THE WATERLINE.

UTILITY SEPARATION

N. T. S.

DATE: December 2014	Municipal Water Authority of Aliquippa
FILE NAME SAN-02 Utility Sepdwg	Utility Separation
SCALE: N.T.S.	SAN-02





NOTES:

- 1. EARTH PRESSURE = 2,000 LBS./SQ.FT.
- 2. APPLIED PRESSURE = 150 P.S.I.+50% FOR WATER HAMMER OR SURGE
- 3. IF EARTH IN FIELD WILL NOT SUPPORT THE ABOVE EARTH PRESSURE, AREA OF BLOCK MUST BE INCREASED PROPORTIONATELY.
- 4. CONCRETE TO BE 3,000 P.S.I., PADOT CLASS A, 3" SLUMP
- ALL MECHANICAL JOINT FASTENERS (I.E. BOLTS, NUTS, ETC.) SHALL BE FREE OF CONCRETE. ALL FITTINGS SHALL BE MECHANICAL JOINT AND HAVE MEG-A-LUG RETAINER GLANDS(OR EQUAL) INSTALLED TO MANUFACTURERS SPECIFICATIONS.
- 6. CONCRETE WITH BEARING AREAS GREATER THAN 3 S.F. TO HAVE W4 x W4 WELDED WIRE FABRIC.
- 7. ALL FITTINGS TO BE DUCTILE IRON WITH EPOXY LINING.

FORCEMAIN HORIZONTAL THRUST BLOCKING

N.T.S.

DATE:
December 2014
FILE NAME- State Forcemain Horiz, Thrust Blocking.dwg
SCALE:
N.T.S.

Jan 27, 2015 - 11:09am

1

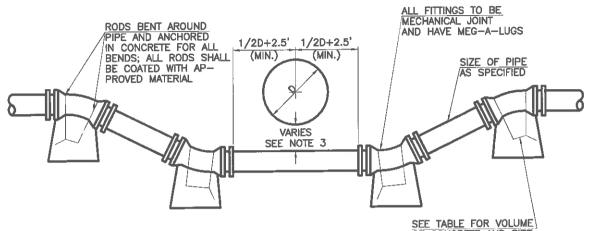
Date

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Municipal Water Authority of Aliquippa Forcemain Horizontal Blocking (150 PSI)

SAN-04



SEE TABLE FOR VOLUME OF CONCRETE AND SIZE OF ANCHOR RODS

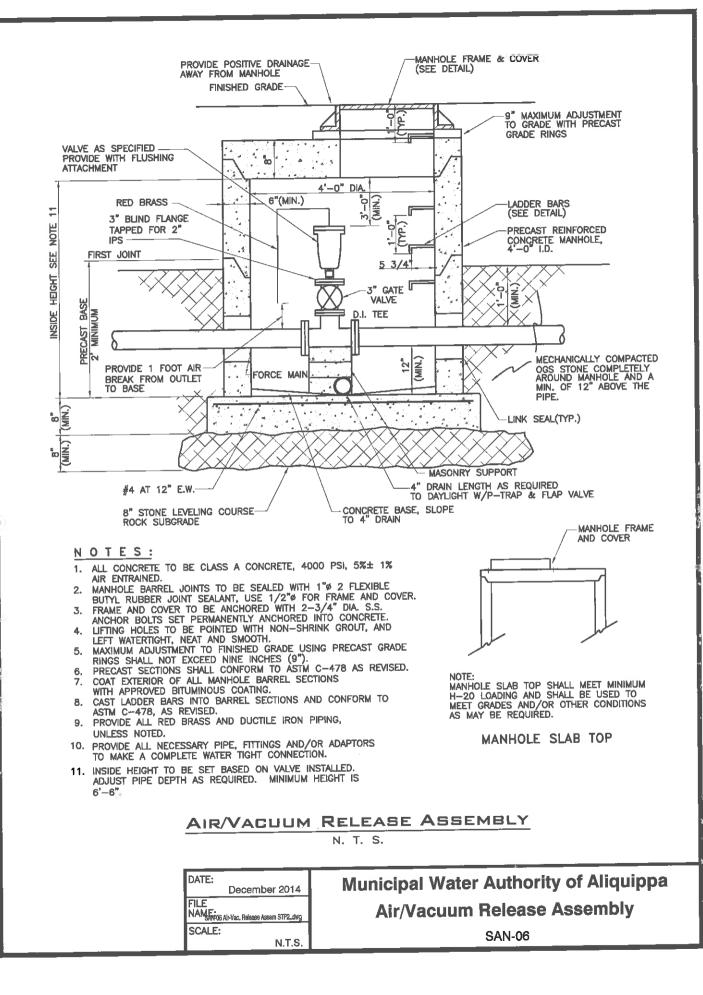
	TOTAL	VOLUME	IN CUB	IC FEET	SIZE AND No. OF ANCHORS		NCHORS
PIPE SIZE	PRESSURE	45' BENDS	22.5* BENDS	11.25° BENDS	45' BENDS	22.5 BENDS	11.25' BENDS
4	3900	20	10	5	1-#4	1-#4	1-#4
6	7200	37	19	9	2-#4	1-#4	1-#4
8	11800	60	31	15	2-#4	2-#4	1-#4
10	17100	87	45	22	2-#4	2#4	2-#4
12	23700	122	62	31	2 - #5	2-#4	2-#4
14	31400	160	82	41	2-#6	2-#4	2-#4
16	42000	214	110	55	2-#7	2-#5	2-#4
18	51800	264	135	67	2-#7	2-#5	2-#4
20	63000	322	164	82	2-#8	2-#6	2-#4
24	86000	440	224	112	2-#9	<u>2</u> –#7	2-#5

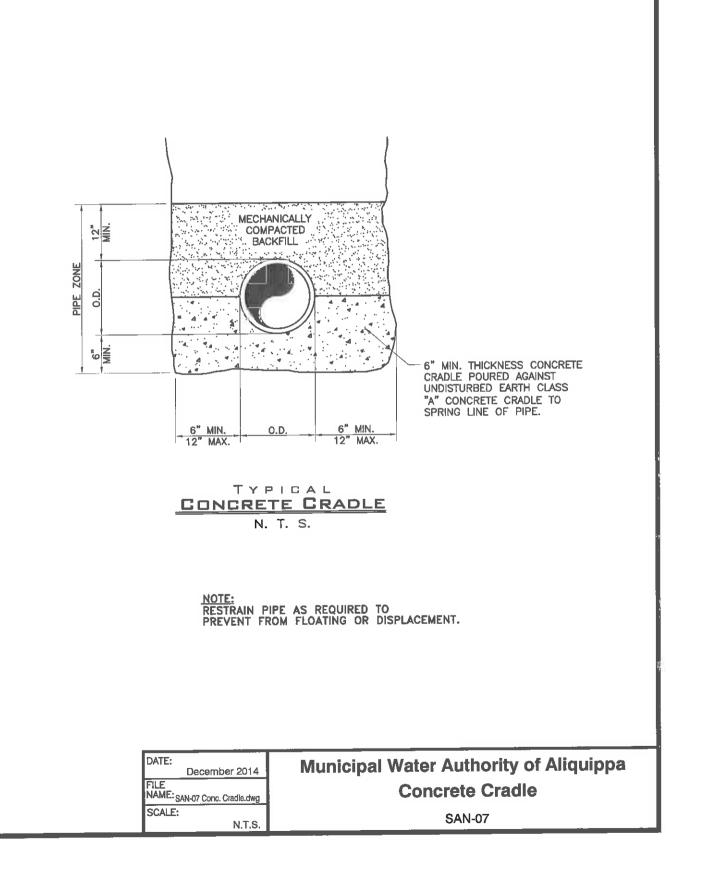
NOTES:

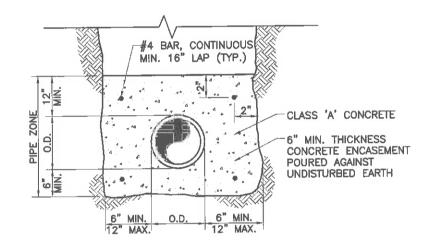
- 1. THE TABLE IS BASED ON 150# TEST PRESSURE.
- 2. REINFORCE ALL BLOCKS WITH #4 AT 6" E.F. MINIMUM 3" FROM ALL SIDES.
- 3. SEE "FORCEMAIN UNDER OBSTRUCTION" DETAIL.

	ТΥР	• I I	CAL	
FORCEMAIN	VE	<u>RT</u>	ICAL	BLOCKING
<u> </u>	N.	т.	S.	

DATE: December 2014	Municipal Water Authority of Aliquippa
FILE NAMESAN-05 Verticle Blk 150psi.dwg	Forcemain Vertical Blocking (150 PSI)
SCALE: N.T.S.	SAN-05



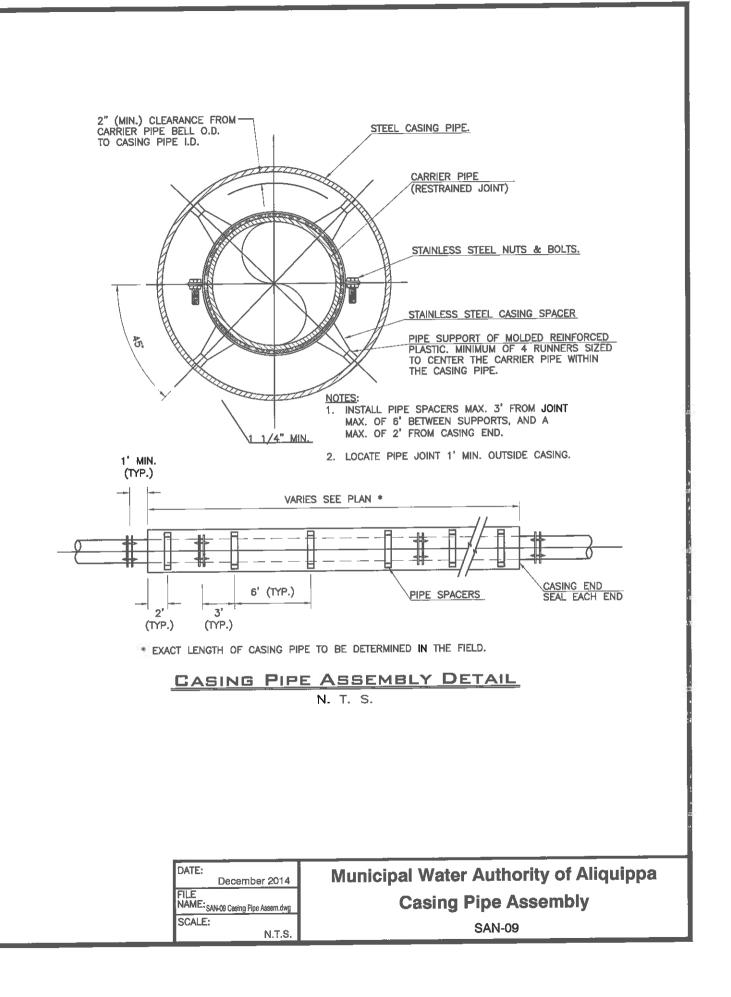


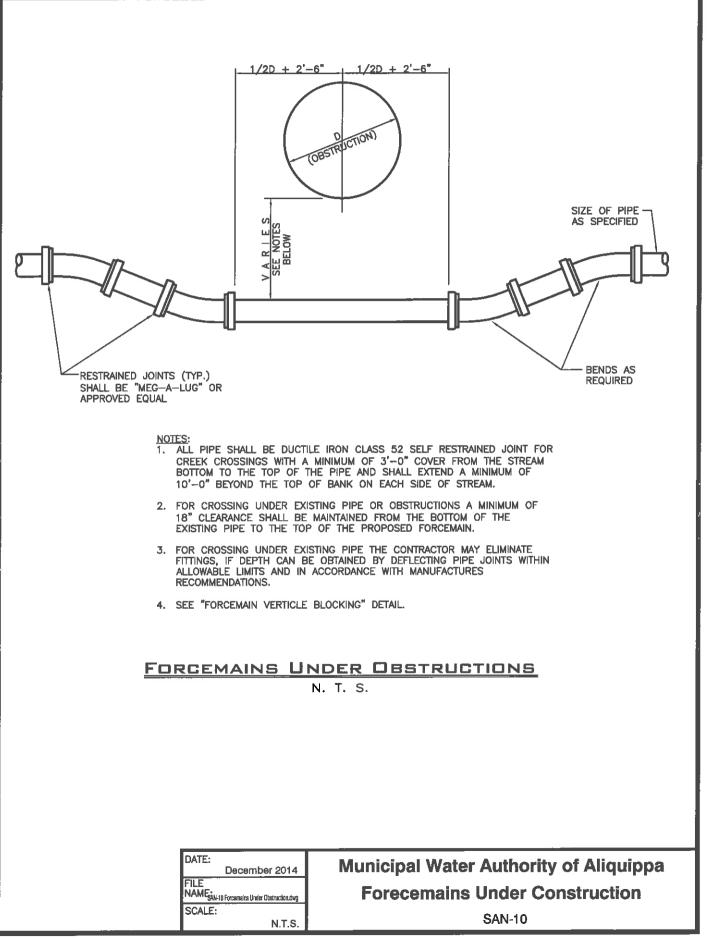


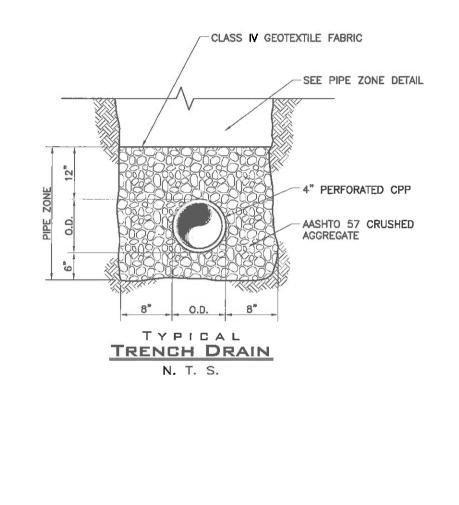


NOTE: RESTRAIN PIPE AS REQUIRED TO PREVENT FROM FLOATING OR DISPLACEMENT.

DATE: December 2014	Municipal Water Authority of Aliquippa
FILE NAME: SAN-08 Cano. Encesement.dwg	Concrete Encasement
SCALE: N.T.S.	SAN-08

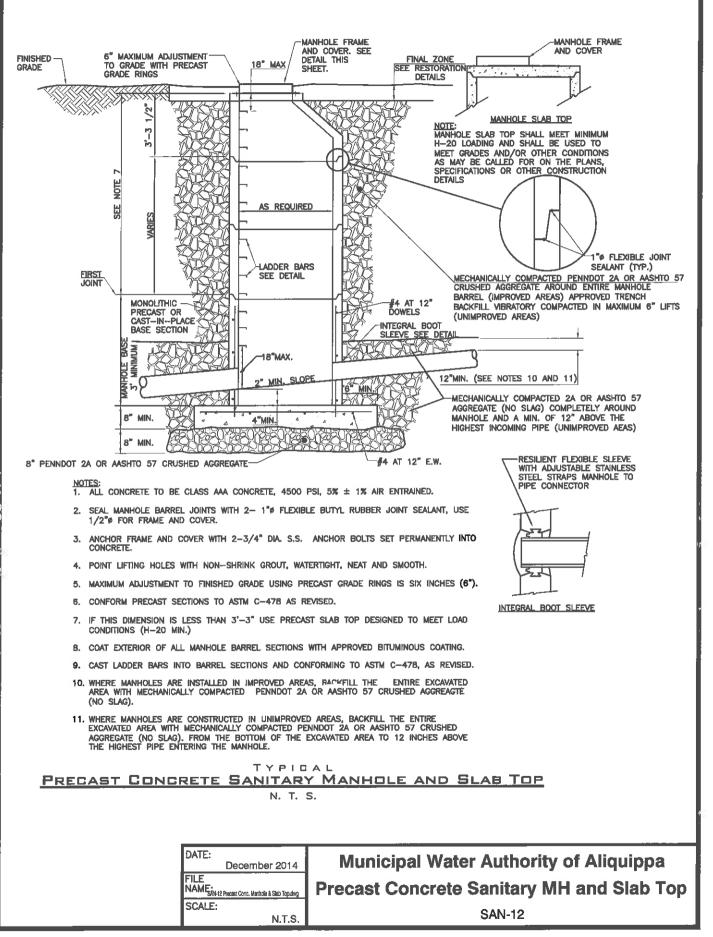




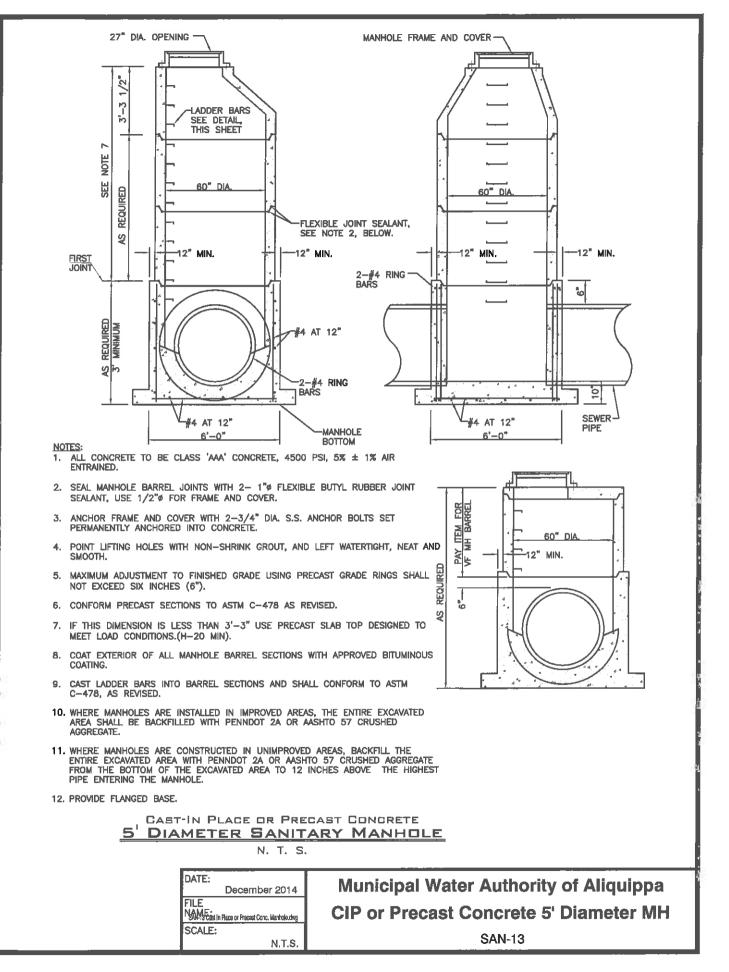


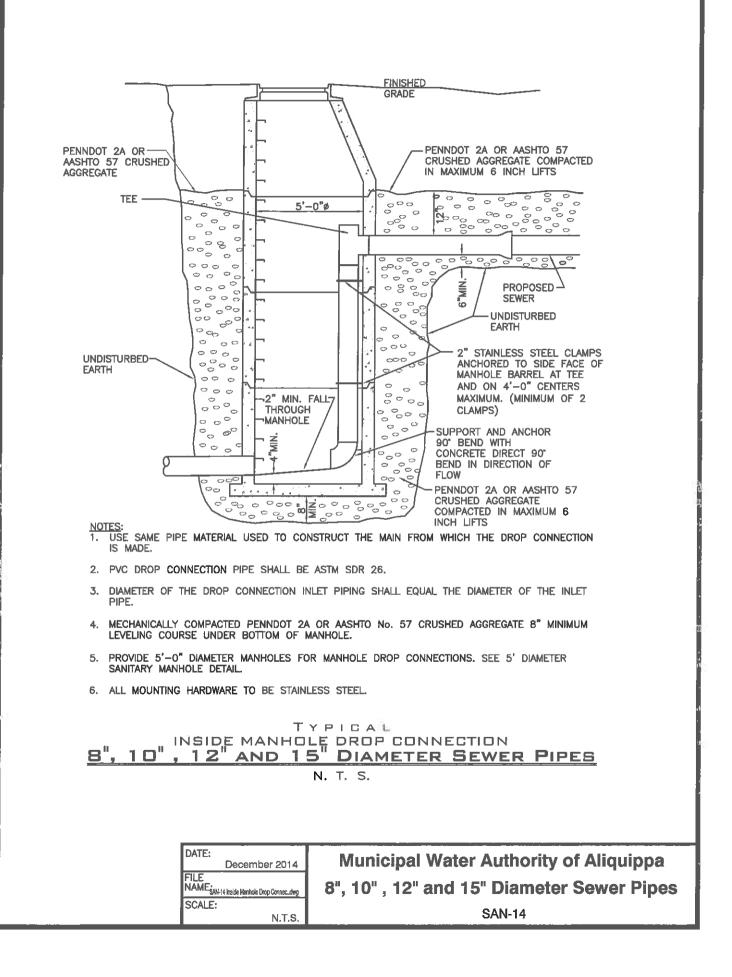
DATE: December 2014	Municipal Water Authority of Aliquippa
FILE NAME: SAN-11 Trench Drain.dwg	Trench Drain
SCALE: N.T.S.	SAN-11

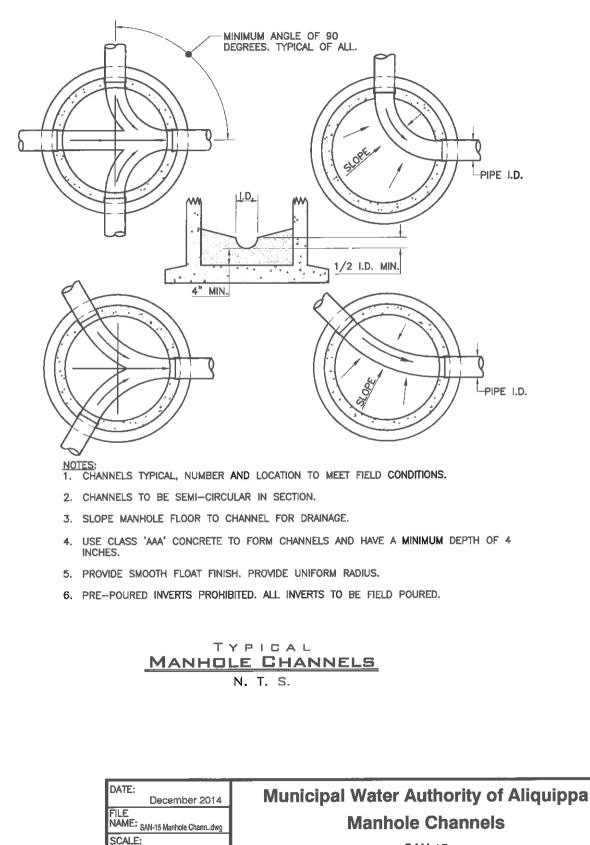
Date = Jan 27, 2015 - 11:22am Usemame = joshc W/PRO/(474/11 Rules Regs/STD detaile/Sankary/ SM-11 Trench Drain.dwg layout = Trench Drain



9 8 3 anhola 8 Cono. £ **SNN-12** detaile/Sonitary/ Rega\STD Rules N:\PROJ\474\11

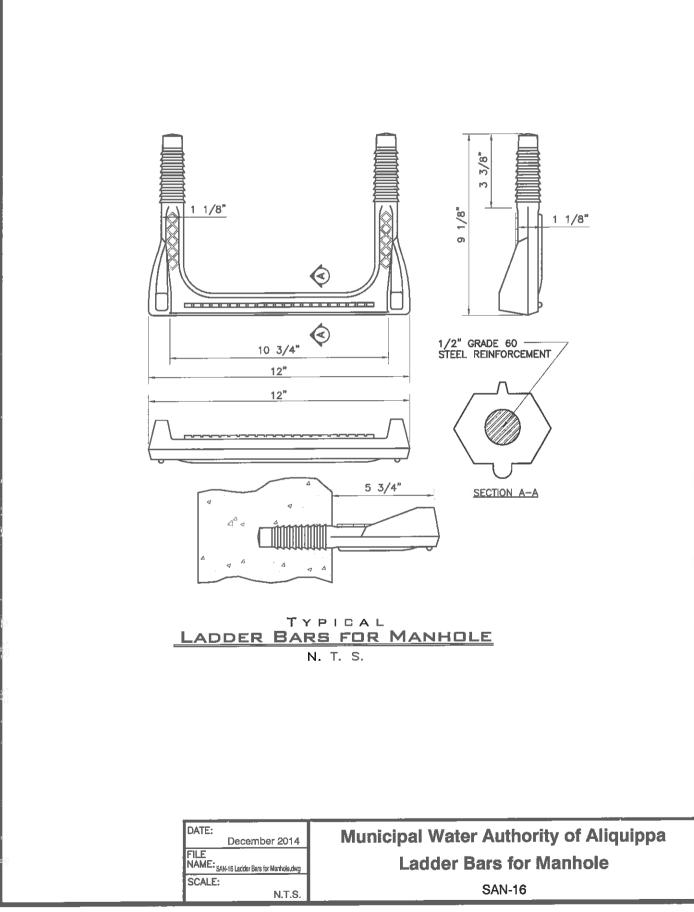


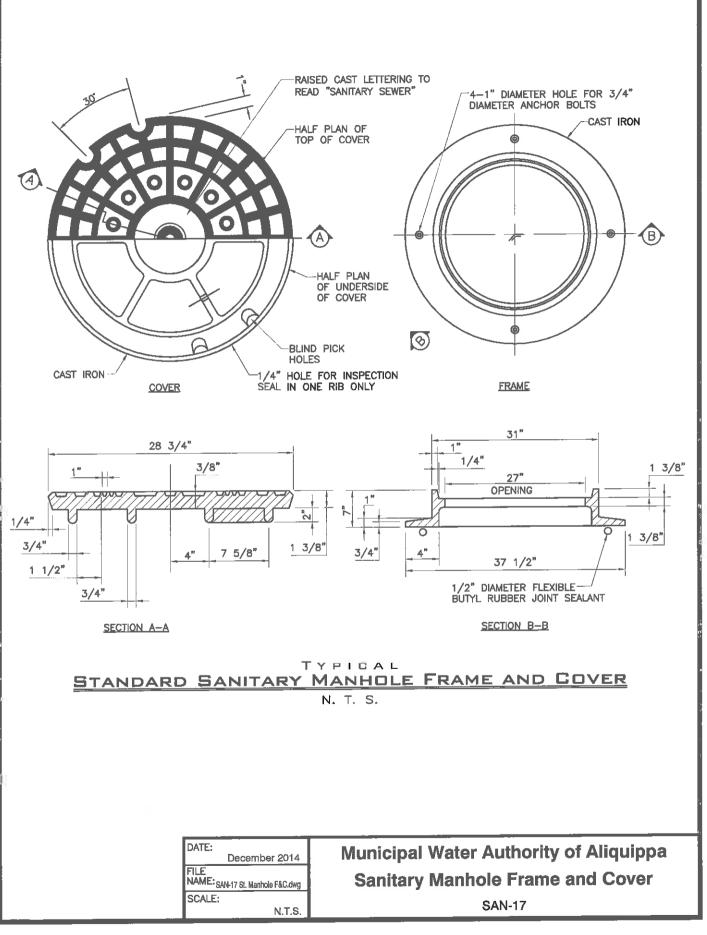


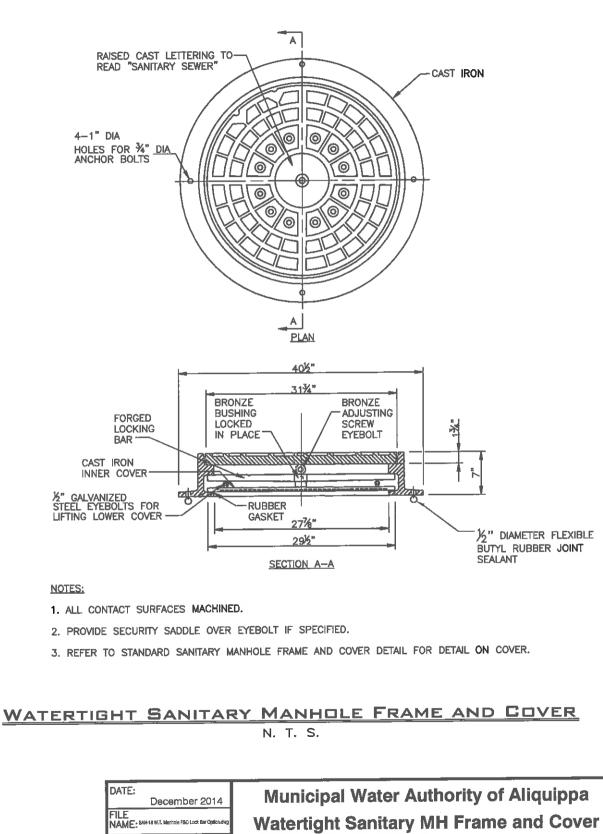


N.T.S.

SAN-15

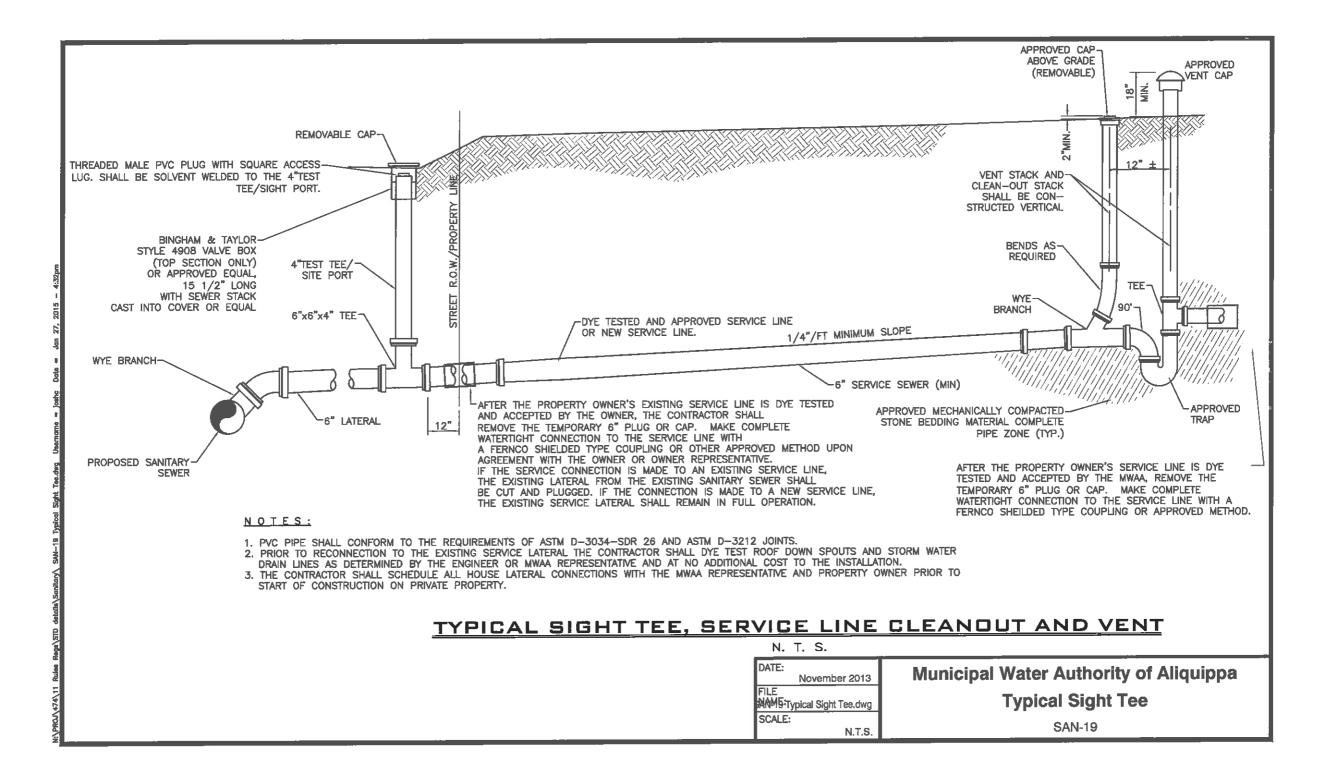


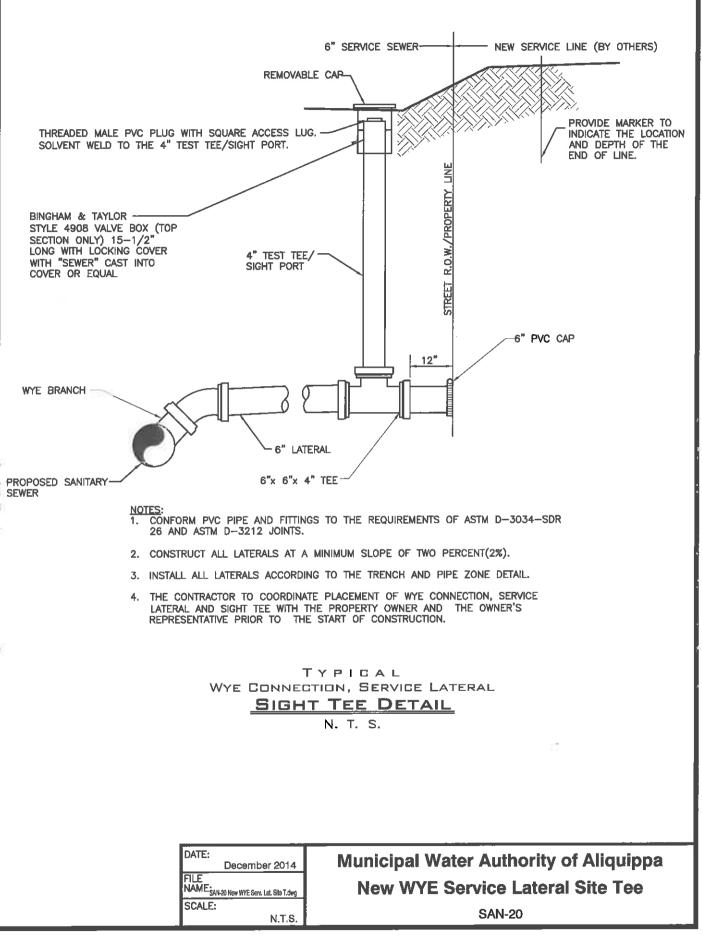


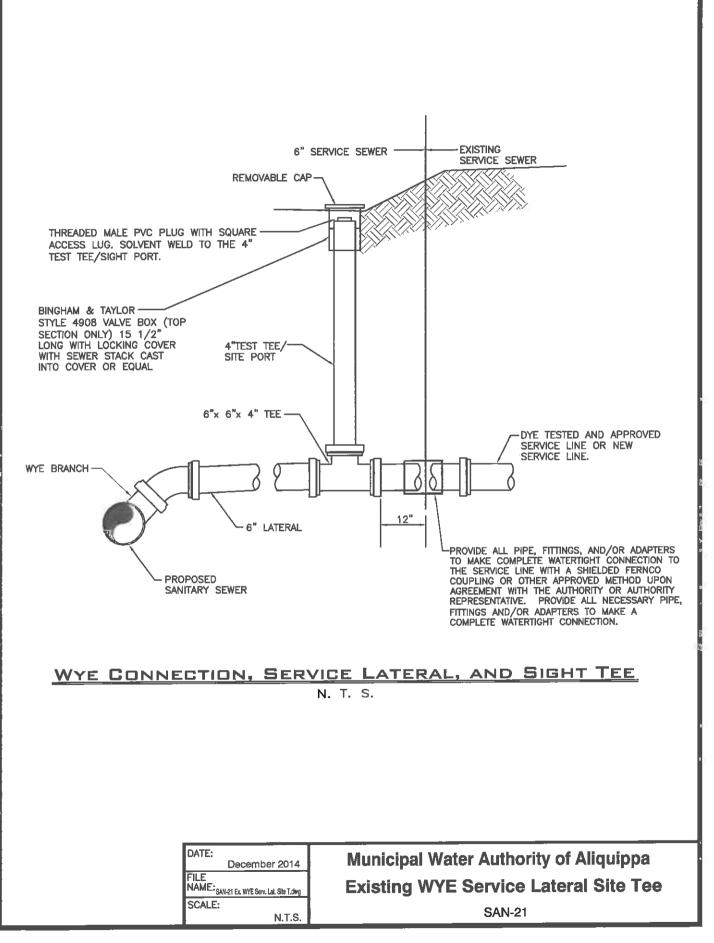


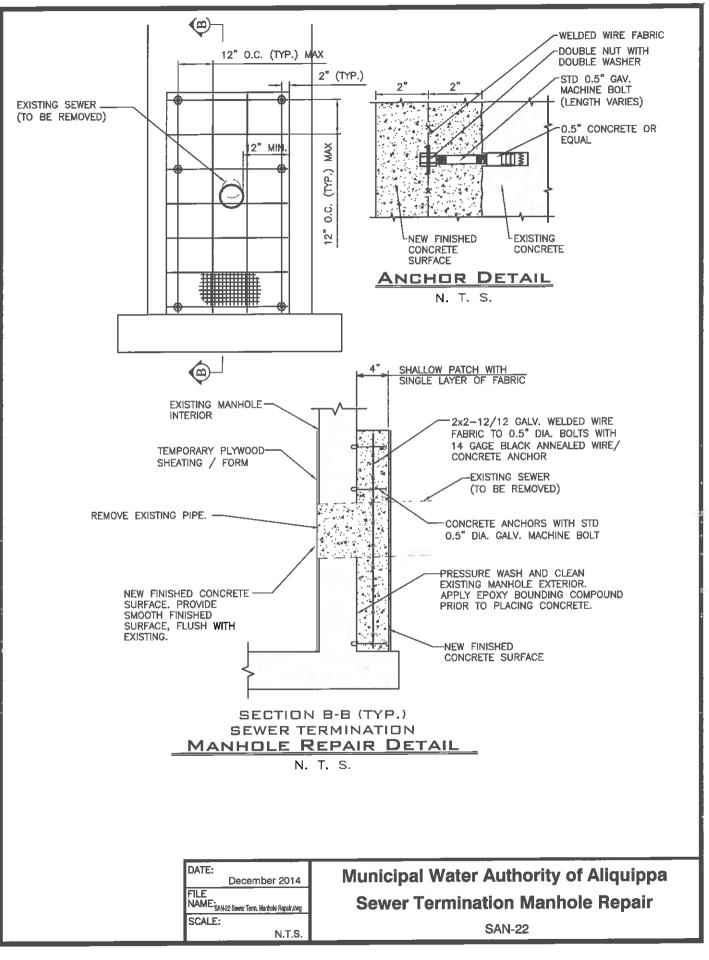
SAN-18

SCALE: N.T.S.









APPLICATION

	DOMESTIC			
	COMMERCIAL			
	INDUSTRIAL			
□ (CHE	PUBLIC CK APPROPRIATE CLASSIFICA	Aliquippa, PA: FION)	, 20	
From	13		TENANT	
			OWNER	
	To the MUNICIPAL WATER ndersigned hereby make(s) applications ses known as No	on for supply of water at		
	to be occup			
supply with t Regul	leration for its doing so, agree(s) wi y of water as long as water is distrib the schedule of rates adopted by sa ations adopted from time to time by said Authority's office).	uted through its mains, and id Authority and further ag	to pay for the same in ac gree to conform to the I	ccordance Rules and
Witne	ss:	Name:		
Accou	int Number:	Address:		
Servic	e Order:			
Depos	it Amount:	Phone Nun	nber:	
Depos	it Reference:	Personal II	D#:	

MUNICIPAL WATER AUTHORITY OF ALIQUIPPA

160 HOPEWELL AVENUE ALIQUIPPA, PA 15001 724-375-5225

OWNER'S AUTHORIZATION

We/l,	(name), Owner(s) of premise	
located at	(address), do constitute	
and appoint	(Name of tenant or agent),	
and authorize him/her to make	e written application to the MUNICIPAL WATER AUTHORITY OF	
ALIQUIPPA, for water and/or sewer services to the above premise owned by me/us and agree		
to abide by and be subject to the rates, rules, and regulations of the MUNICIPAL WATER		
AUTHORITY OF ALIQUIPPA. A copy of the rates, rules, and regulations are available for		
inspection at the Authority's O	ffice.	

OWNERS ARE RESPONSIBLE FOR THE TENANT'S UNPAID BILLS WITH THE AUTHORITY

Witness:	Owner	
Account Number:	Address:	
Service Order #	·	
Tenant Application Date	Telephone:	
Tenant Deposit Reference Number:	Date:	

MUNICPAL WATER AUTHORITY OF ALIQUIPPA APPLICATION FOR FIRE, CONNECTION TOSYSTEM AND/OR EXTENSIONS

ADDRESS:	PHONE / FAX		
	DATE:		
TENANT / OWNER:			
SERVICE (PREMISE) ADDRESS:			
STRUCTURE TYPE:			
TENANT / OWNER TELEPHONE NUMBER:			
OWNER NAME:			
OWNER TELEPHONE NUMBER:			
OWNER ADDRESS:			
CONSULTANTS NAME AND TELEPHONE NUMB			
The Applicant (Owner) is requesting to construct:			
□ PRIVATE FIRE PROTECTION SERVE	PRIVATE FIRE PROTECTION SERVICE (ARTICLE VI)		
□ CONNECTION(S) TO SYSTEM (ARTI	CONNECTION(S) TO SYSTEM (ARTICLE X)		
□ EXTENSION(S) OF SYSTEM (ARTIC)	EXTENSION(S) OF SYSTEM (ARTICLE XI)		
DETAILED DESCRIPTION OF PROJECT OR REQU	EST:		

I hereby acknowledge by my signature that I have read and fully understand the Municipal Water Authority of Aliquippa Rules and Regulations applicable to this Application.

Signature of Owner:

Date: _____