

**Requirements for Implementation of the  
New York State Fire Prevention and Building Code  
as set forth by the  
Onondaga County Examining Board for Plumbers  
October 2019**



COUNTY OF ONONDAGA



STATE OF NEW YORK

**Water Environment Protection**

J. Ryan McMahon, II, County Executive  
Frank M. Mento, P.E., Commissioner

[ongov.net](http://ongov.net)

## CHOOSE YOUR PLUMBER AS YOU WOULD YOUR PHYSICIAN

Ask your best friend who his physician is. He no doubt can tell you immediately the name, address and telephone number of the one chosen to guard the health of his family.

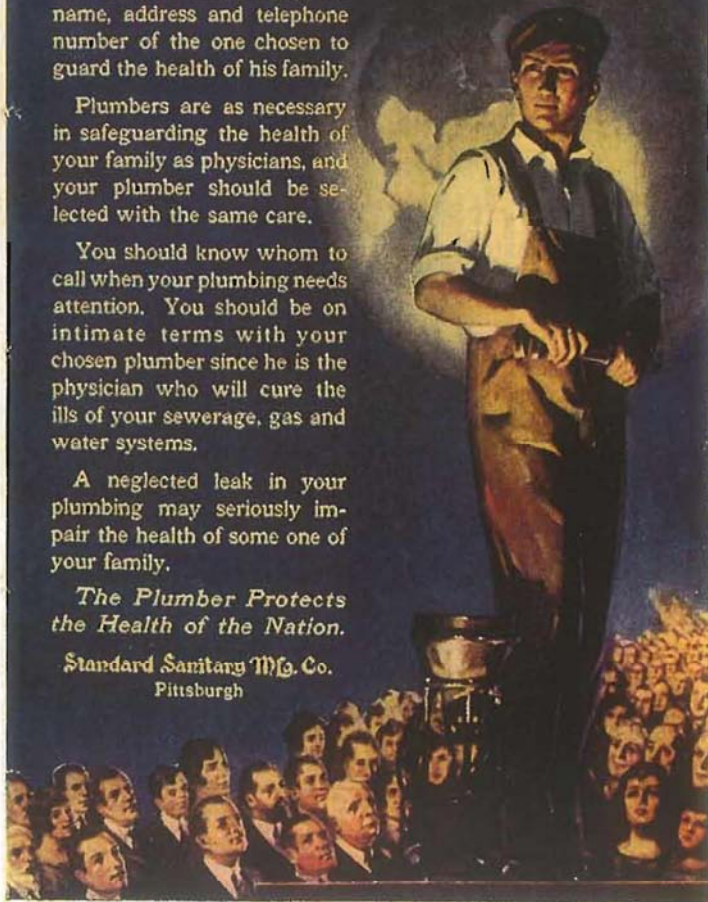
Plumbers are as necessary in safeguarding the health of your family as physicians, and your plumber should be selected with the same care.

You should know whom to call when your plumbing needs attention. You should be on intimate terms with your chosen plumber since he is the physician who will cure the ills of your sewerage, gas and water systems.

A neglected leak in your plumbing may seriously impair the health of some one of your family.

*The Plumber Protects  
the Health of the Nation.*

Standard Sanitary Mfg. Co.  
Pittsburgh



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**Requirements for Implementation of the New York State Fire Prevention and Building Code  
as set forth by the Onondaga County Examining Board for Plumbers  
October 2019**

(Authority: As referenced by Section 1, Part h., Onondaga County Local Law No. 9, 1988  
as amended by Local Law No. 6, 2004)

*\*changes which have been made since last issuance are shown in **bold**\**

**ARTICLE 1 – OVERVIEW**

Section 1-1. Title

- A. This document provides requirements for implementation of the New York State Uniform Fire Prevention and Building Code and provides local guidance thereof as set forth by the Onondaga County Examining Board for Plumbers.

Section 1.2 Scope

- A. All plumbing systems within or adjoining the property lines of any premises up to the point of connection to the public system or other approved terminal except for those facilities publicly owned and installed in a permanent right of way. Said plumbing systems shall be performed only by persons authorized by the Onondaga County Department of Water Environment Protection and shall be installed in compliance with these Requirements for Implementation

Section 1.3 Violations

- A. Violations shall be dealt with as prescribed in Section 4 of the Onondaga County Local Law #9, 1988.

Section 1.4 Definitions of Terms

- A. Where used in these Requirements for Implementation, the following terms, shall mean and include each of the meanings respectively set forth:
1. “Plumbing” and “Plumbing Work” shall be interpreted as defined by the Plumbing Code of New York State as “the practice, materials and fixtures utilized in the installation, **maintenance**, extension and alteration of all piping, fixtures, plumbing appliances and plumbing appurtenances, within or adjacent to any structure, in connection with sanitary drainage or storm drainage facilities; venting systems; and public or private water supply systems.”
  2. “Harmful Deposits” as referenced in Section 4, Part (d) of Local Law No. 9, 1988 as amended by Local Law No. 6, 2004 shall be interpreted to mean, “oil, grease, sand and other substances **harmful** or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or process” of the Plumbing Code of New York State/Residential Code of New York State.
- B. Where not defined herein or in Local Law No. 9, 1988 as amended by Local Law No. 6, 2004, words used herein shall be interpreted as defined in the following documents (in order of precedence):
1. The **Plumbing** Code of New York State / Residential Code of New York State – Current Edition in Force.
  2. The remaining components of the New York State Uniform Fire Prevention and Building Code – **Current** Edition in Force.

## **ARTICLE 2 - REGISTRATION AND LICENSES**

### **Section 2.1 Master Plumber; Certificate of Competency Required**

- A. Any person who desires to engage in the business of plumbing in Onondaga County as a Master Plumber must obtain a Certificate of Competency from the Onondaga County Examining Board for Plumbers.
- B. An application for examination must be submitted to the Board of Examiners. If an applicant meets the prescribed requirements the applicant will be notified of the time and place of the examination and shall pay the required fee.
- C. The examination shall consist of written and practical testing to assess an applicant's knowledge and ability.
- D. No applicant shall be examined by the Onondaga County Examining Board for Plumbers unless the applicant shall have had experience of at least ten (10) years as a journeyman plumber or five (5) years as a plumbing apprentice and five (5) years as a journeyman plumber. Documented proof of such experience is mandatory (See Section 2.4 and Section 2.6). The Board of Examiners may, in its discretion, waive the requirements of this subsection where an applicant's training and experience shall be the substantial equivalent of the foregoing requirements. An applicant who passes the examination shall be eligible to receive a Certificate of Competency provided that the Board is satisfied that the applicant is a person of good repute, character and responsibility and otherwise qualified to engage in the business of plumbing in Onondaga County.
- E. For the Master's level, qualifying educational experience up to one year total will be considered. This credit may be for educational experience as defined for the Journeyman level and not used to satisfy the Journeyman five year requirement. Up to 1 year of qualified experience will be awarded for educational experience at the post Associates Degree level at the rate of ½ year of qualified educational experience per year of full time post Associates Degree level education, such as Construction/Business or related field. All credits for educational experience shall be based upon a determination of the Board based upon documentation provided by the applicant.
- F. Individuals who worked in the trade outside of Onondaga County may submit evidence of work experience under other jurisdictions and proof of employment when first licensed to practice plumbing in that jurisdiction for review of the Board. Decision of the Board shall be made based on knowledge of the licensure requirements of other jurisdictions.
- G. After issuing a Certificate of Competency, the Board shall notify the Plumbing Control Section of the Onondaga County Department of Water Environment Protection. The Plumbing Control Section may then issue a Master Plumber License to such Certificate holder providing the applicant pays the annual licensing fee and complies with the insurance requirements contained in ARTICLE 3 - , Section 3.2 of these regulations. In the event an applicant fails to qualify for a Certificate of Competency, the applicant may apply for a re-examination no sooner than next scheduled exam.

### **Section 2.2 Journeyman Plumber - Certificate of Competency**

- A. Every applicant desiring a Certificate of Competency as a Journeyman Plumber in the Onondaga County shall first apply to the Onondaga County Examining Board for Plumbers in the manner prescribed by the Board.

- B. No applicant shall be examined for a Journeyman Plumber's Certificate of Competency unless the applicant shall have had experience of at least five (5) years in the plumbing trade. Documented proof of same is mandatory in accordance with Section 2.6. Any applicant for registration as a Journeyman plumber must successfully complete an examination for same as given by the Board. If an applicant meets the prescribed requirements, the applicant will be notified of the time and place of the examination and shall pay the required examination fee.
- C. For the Journeyman level, educational experience in trade school or experience in the opinion of the Board to be equivalent may be used to satisfy the requirements of up to one year at the rate of ¼ year qualified experience per year of trade school conducted concurrent with employment (evening / weekend classes), or ½ year qualified experience per year in a full time Associates Degree program in a construction trades curriculum / business curriculum.

### Section 2.3 Plumbing Contractor's Licenses

- A. A Master Plumber's License shall be issued to those individuals who successfully complete an examination for a Master Plumber's Certificate of Competency as given by the Onondaga County Examining Board for Plumbers. Said license shall enable the holder thereof to conduct the business of plumbing in any municipality within Onondaga County.
- B. A Plumbing Contractor's License -- Class "B" shall be issued to those individuals who, prior to January 1, 1967, had obtained a Certificate of Competency from the Onondaga County. Said Class "B" License shall enable the holder thereof to conduct the business of plumbing in any municipality within Onondaga County except the City of Syracuse, New York.
- C. A Plumbing Contractor's License -- Class "C" was issued to those individuals who had conducted the business of plumbing with the Onondaga County prior to January 1, 1967 without a Certificate of Competency and who made application for license prior to December 31, 1968. Said Class "C" license shall enable the holder thereof to continue his business operations within the Onondaga County exclusive of the City of Syracuse and excluding any plumbing installation that involves connection to any public sewer system within Onondaga County. (No application for a Class "C" license shall be valid after December 31, 1968.)

### Section 2.4 Journeyman Plumber's Registrations

- A. A Journeyman Plumber's Registration shall be issued to any individual who has received a Certificate of Competency as identified in Section 2.2 of these Requirements for Implementation.
- B. All registered Journeyman Plumbers must, when making any plumbing installation, have their registration on their person as a means of identification for plumbing inspectors, property owners or other interested parties.
- C. It is the responsibility of all Journeyman Plumbers to renew their registration with the Onondaga County Department of Water Environment Protection on, or before, the fifteenth (15th) day of March of each year. A late fee will be charged after that date.
- D. A Journeyman Plumber may not accumulate time for acceptance to Master's exam, unless they have proof documented as having been under the employment of an Onondaga County Licensed Master Plumber for the minimum criteria as defined in ARTICLE 2 Section 1, parts d through f.
- E. Any Journeyman Plumber who allows their registration to lapse shall forfeit any credit for that time period.

### Section 2.5 Apprentice Plumber's Registration

- A. Apprentice Plumbers shall be employed by Licensed Master Plumbers or Plumbing Contractors "B" and be registered with the Onondaga County Department of Water Environment Protection.
- B. Apprentice Plumbers, when making plumbing installations, must have their Photo ID cards on their person as a means of identification.
- C. It is the responsibility of all Apprentice Plumbers to renew their registration cards with the Onondaga County Water Environment Protection Department on, or before, the fifteenth (15<sup>th</sup>) day of May of each year. A late fee will be charged after that date.
- D. Any Apprentice Plumber who allows their registration cards to lapse shall forfeit any credit for that time period.

### Section 2.6 License and Registration Fees, Etc.

- A. All plumbing licenses and registration cards shall be issued by the Plumbing Control Section of the Onondaga County Department of Environmental Protection.
- B. All Master Plumber and Plumbing Contractor "B" licenses shall expire on the fifteenth (15<sup>th</sup>) day of January of each year.
- C. Any Master Plumber or Plumbing Contractor "B" who allows their license to lapse beyond a one year period shall be charged the annual fee plus the late fee for each year in arrears. After a three (3) year period said Master Plumber or Plumbing Contractor "B" will also be subject to a reevaluation hearing as described in Part E(2) below.
- D. The annual and late fees charged for all licenses and registrations shall be as set forth in the Onondaga County Local Law. (See Attachment for current fee schedule)
- E. Inactive Master Plumbers or Plumbing Contractor "B" License:
  - 1. A Master Plumber or Plumbing Contractor "B" may register their license in an inactive status providing they are not engaged in the business of plumbing as the active license holder under ARTICLE II Section 7 of these Requirements. The holder of an inactive license who remains **continuously** active in the plumbing industry by being associated with another Licensed Plumbing Contractor and can so document their continuous activity to the satisfaction of the Board may reactivate their license at any time upon payment of the full license fee. Said holder of an inactive license must carry an active Journeyman's registration during the time that the holder's license is inactive.
  - 2. The holder of an inactive plumbing license who does not remain active in the plumbing industry as described in Part E(1) above will, after a three (3) year period, be subject to a re-evaluation hearing by the Onondaga County Examining Board for Plumbers before being allowed to reactivate their license. Said hearing shall consist of an interview before the Board **followed** by written and/or practical examination as determined necessary to establish that the applicant has remained current in their competency, knowledge of the code and any rules and regulations supplementary thereto.
  - 3. The **annual** fee for registering any inactive Master Plumber or Plumbing Contractor "B" license shall be as set forth in the Onondaga County Local Law. (See Attachment for current fee schedule)

## Section 2.7 Master Plumber and Plumbing Contractor's "B" License

### A. Required:

1. Any **person**, partnership or corporation engaged in the business of plumbing within Onondaga County must:
  - a. As a person, hold a Master Plumber License or Plumbing Contractor "B" License as defined in Section 2.1 of these Requirements.
  - b. As a partnership, every partner, directly or indirectly engaged in plumbing in any manner whatsoever, must hold a Master Plumber License or Plumbing Contractor "B" License as defined in Section 2.3 of these Requirements for Implementation. It is required that only one of said partners has an active Master Plumber or Plumbing Contractor "B" License.
  - c. As a corporation, one or more officers of such corporation separately or aggregately actually hold and own at least fifty-one percent (51%) of the issued and outstanding capital stock and each of such officers has a Master Plumber or Plumbing Contractor "B" License as defined in Section 2.3 of these Requirements. It is required that only one such officer has an active Master Plumber or Plumbing Contractor "B" License. It is further required that plumbing corporations licensed by the Onondaga County Water Environment Protection Department submit notarized affidavits that show the name of officer or officers who own fifty-one percent (51%) of the issued and outstanding capital stock.
2. It is intended by this section of the regulations that a Licensed Master Plumber or Plumbing Contractor "B" be actively involved and in responsible control of the business of plumbing with which they are associated. In the case of partnerships or corporations, it is intended that all plumbing work be under the responsible control of the Licensed Master Plumber or Plumbing Contractor "B". (Paragraph amended 08/21/17).
3. To avoid the appearance of impropriety and/or conflict of interest a Licensed Master Plumber or Plumbing Contractor "B" as defined above shall not have ownership interest in more than one entity conducting the business of plumbing in Onondaga County. (Paragraph amended 08/21/17)
4. In the event that the holder of an Onondaga County Master Plumber Certificate is employed by more than one entity conducting the business of plumbing in Onondaga County, the holder of the Onondaga County Master Plumber Certificate shall participate in the preparation of and submission of bids from only one entity conducting the business of plumbing in Onondaga County. (Paragraph added 08/21/17)

## Section 2.8 Plumbing Contractor's Responsibilities

### A. Licensed Master Plumbers and Plumbing Contractors "B" are responsible for:

1. Complying with all provisions of the code as defined in ARTICLE I, Section 1 of these **Requirements**.
2. Observing all federal and state standards concerning employee safety regulations.
3. Obtaining plumbing permits from the Onondaga County Department of Water **Environment** Protection prior to making any plumbing installation.
4. Performing the work of plumbing in Onondaga County only with Master, Journeymen and Apprentice Plumbers Registered with Onondaga County Plumbing Control (**sentence added 01/07/19**). A maximum ratio of three (3) Apprentice Plumbers will be allowed for each Journeyman Plumber on any type of plumbing installation (**sentence moved 01/07/19**).
5. Arranging to have all plumbing installations made by them or their employees inspected by **authorized** personnel from the Onondaga County Department of Water Environment Protection.



6. Providing warranty to the original purchaser, the workmanship and materials involved in any **plumbing** installation made by themselves or their employees for a period of one (1) year from the date of completion of said installation.
7. Having themselves or a registered Journeyman Plumber present during any installation which said contractor is responsible for.
8. Supervise, instruct and review the work of Journeymen Plumbers employed by the firm and **their** associated apprentices. Maintain oversight of additional Master Plumber employees (if any). Be responsible for all plumbing related business matters in the interest of protecting the public health. (Paragraph added 08/21/17)
9. Sealing and/or patching any openings in walls, floors, ceilings, etc. that are the results of any **installation** made by themselves or their employees. Master Plumbers and Plumbing Contractors “B” shall be exempt from the responsibility of this provision only when a contractual arrangement exists between the owner (or owners) and said Plumbing Contractor in which the owner (or owners) agree to undertake the responsibilities for sealing and/or patching and provide this work prior to final inspection.
10. Placing plumbing license decals, obtained from the Onondaga County Department of Water Environment Protection, one each side of all commercial vehicles (excluding excavation equipment) used in their business operation.

#### Section 2.9 Journeyman and Apprentice

##### A. Journeyman Responsibilities:

1. It is the responsibility of all Journeyman Plumbers working within Onondaga County to be duly registered by the Onondaga County Department of Water Environment **Protection** and **to** carry on their person said registration cards during any plumbing installation they are responsible for.
2. It is the added responsibility of all registered Journeyman Plumbers to properly supervise **and instruct** those Apprentice Plumbers, who may be assigned to assist them, in the approved methods of installation and in all safety precautions that must be observed.

##### B. Apprentice Responsibilities:

1. **It** is the responsibility of all Apprentice Plumbers to be duly registered by the Onondaga County Department of Water Environment Protection and to carry on their person said registration card.

#### Section 2.10 Licenses and Registrations - Suspension or Revocation of

- A. Any licensed Master Plumber or Plumbing Contractor “B” or registered Journeyman Plumber who knowingly violates the provisions contained in these Requirements:
  1. **Will** be subject to an informal hearing before the Onondaga County Examining Board of Plumbers. If the informal hearing process does not result in a satisfactory conclusion the Board may refer such matters to the Commissioner of Water Environment Protection of Onondaga County.
  2. The Commissioner may order a formal hearing to be held and, based on his findings at the conclusion of said hearing, may order the suspension or revocation of a Master Plumber, Plumbing Contractors “B” or Journeyman Plumber Registration.
  3. **Said** order may contain such provisions as to reinstatement or renewal of a license as the Commissioner may order.
  4. In addition, the action of the Commissioner may also include the assessment of penalties as provided in Onondaga County Local Law #9, 1988.

## ARTICLE 3 - PERMITS

### Section 3.1 Plumbing Permits

- A. Permits to perform plumbing work will be issued by the Plumbing Control Section of the Onondaga County Department of Water Environment Protection to:
  - 1. **Licensed** Master Plumbers or Plumbing Contractors “B” who have complied with the requirements contained herein.
  - 2. Owner-occupants of one-family dwelling units who desire to remodel, add to or alter the **plumbing** systems in their own homes as provided for in Section 2 of the Onondaga County Local Law #9, 1988.
- B. Plumbing permits must be obtained before proceeding with plumbing installations. Exceptions shall be allowed for emergency repairs of sewers and water services, which are allowed provided the emergency repairs are made in accordance with code requirements and a permit is obtained on the first business day following the emergency, and all work is inspected by the Plumbing Control Section before the work is covered, backfilled or concealed.
- C. Plumbing permit application cards must be properly filled out and signed by the Licensed Master Plumber, Plumbing Contractor “B” or home owner making application.
- D. All plumbing permits issued by the Onondaga County Department of Water Environment Protection are subject to the Requirements of the municipality in which the installation is to be made and the laws of the State of New York relative thereto.
- E. No plumbing permits shall be issued for any commercial, industrial, institutional or multiple dwelling installation unless a “Plumbing System Approval Application” is prepared and plumbing plans and specifications for the project have been approved and are on file with the Plumbing Control Section of the Onondaga County Department of Water Environment Protection. For such projects, application must be made in person by the Licensed Master Plumber, Licensed Plumbing Contractor “B” or his designated representative as approved by the Onondaga County Examining Board for Plumbers.
- F. Plumbing permit fees shall be established by the Onondaga County Department of Water Environment Protection. A maximum permit fee of Five Dollars (\$5.00) shall be charged for construction projects that are owned by and for which the plumbing installation is under direct contract to the Onondaga County, the City of Syracuse or by any Town or Village within the Onondaga County.
- G. A plumbing permit shall not be required for any “Plumbing System” (as defined in the New York State Uniform Fire Prevention and Building Code applicable to Plumbing) in construction projects that are owned by the United States government or by the State of New York. However, a plumbing permit shall be required for any connection made to a public sewer system that serves such projects. In addition, upon project completion, the responsible Architect or Engineer shall furnish to the Plumbing Control Section of the Onondaga County Department of Water Environment Protection a letter of compliance relating to the use of such public sewer system.
- H. Plumbing permits shall be cancelled in those instances where work has not commenced within six (6) months of the date of issue of same. An amount equal to 50% of the permit cost shall be credited to the account of the payer.
- I. The issuance of a plumbing permit shall require that the permit holder arranges for a final inspection by the Plumbing Control Section within thirty (30) days of the completion of any installation.

- J. Plumbing permits shall not be issued unless the public or private sewer, drainage or water supply system conforms to regulations of and is approved for use by the authority having jurisdiction. The submitter shall provide proof of approval dates for the proposed connection from the municipality or utility when requesting the plumbing permit.
- K. Plumbing Control Requirements for Transfer of a New Plumbing Permit, Where No Plumbing Work Has Commenced: Effective August 27, 2019.**
1. **A signed letter from the original Plumber who filed the permit, agreeing to releases the permit for transfer.**
  2. **A signed letter from the new plumber, stating he / she understands that no plumbing work has been done on this project, and circumstances have led to the need to transfer the plumbing permit.**
  3. **A signed letter from the builder / owner, stating that he / she understands, due to circumstances, the existing permit will be transferred to the new plumber.**
  4. **Upon receipt of all three of these items, the original plumbing permit, including only the items included under the issued permit, will be transferred to the new plumber. There will be no fee for this transaction.**
- L. Plumbing Control Requirements for Transfer of an “Active” Plumbing Permit, Where a Portion of Work Has Been Completed. Effective August 27, 2019.**
1. **A signed letter from the original Plumber who filed the permit, agreeing to release permit for transfer.**
  2. **A signed letter from the new plumber, stating he / she understands work has already commenced on this project, and will be held responsible only for the portion of work he/she completes.**
  3. **A signed letter from the builder, or owner, stating he / she understands the existing permit will be transferred to a different plumber, and the builder / owner assumes all liability for any and all work installed prior to the transfer of the permit.**
  4. **Upon receipt of all three of these items, the permit, including only the items included under the issued permit, will be transferred to the new plumber. There will be no fee for this transaction.**

### Section 3.2 Insurance Requirements

- A. Every Licensed Plumbing Contractor actively engaged in the business of plumbing within Onondaga County must have on file, with the Plumbing Control Section of the Onondaga County Department of Water Environment Protection, certificates of insurance that list the Plumbing Control Section as a certificate holder and meet the following requirements:
1. Public Liability - \$1,000,000.
  2. Property Damage - \$ 50,000.00 each accident with an aggregate of \$100,000.00.
  3. Worker’s Compensation Insurance as required by New York State Law.
- B. Any person, firm, partnership, corporation or other entity, whether acting as a prime contractor or a subcontractor intending to excavate for the purpose of installing sanitary, storm or combined sewers or water lines in any project that is subject to these regulations must, in all instance, furnish proof of insurance coverage for underground operations (“U” Hazard) to the Plumbing Control Section of the Onondaga County Department of Water Environment Protection.
- C. Insurance certificates and insurance policies - Not less than 15 days prior to the termination or cancellation of any of the aforementioned policies, for any reason, a-notice of such shall be furnished to the Plumbing Control Section of the Onondaga County Department of Water Environment Protection.

## ARTICLE 4 - PLUMBING CONTROL SECTION AND EXAMINING BOARD OF PLUMBERS

### Section 4.1 Plumbing Control Section; Duties of

A. The duties of the Plumbing Control Section shall be:

1. To enforce the provisions of these Requirements and those contained in Onondaga County Local Law #9, 1988 and the Plumbing Code of New York State.
2. To issue, sign, serve or cause to be served notices of violation of any provision of these Requirements or those contained in Onondaga County Local Law #9, 1988 or the Plumbing Code of New York State.
  - a. To investigate all legitimate complaints and report thereon.
3. To inspect plumbing installations made within Onondaga County, other than those exceptions contained in paragraph (k) of this Section.
4. To inspect existing plumbing systems when required to do so.
5. To examine plans and specifications for proposed plumbing installations in accordance with the following procedure:
  - a. **In accordance with the appropriate provisions contained in the New York State Education Law only those plans and specifications that have been prepared by New York State registered architects or engineers will be accepted for review.**
  - b. **EXCEPTION: Only plans and specifications for the following are exempt from the requirement for preparation by New York State Registered Architects and Engineers per New York State Education Law Section 7307 (5):**
    - a) **farm buildings and other buildings used solely and directly for agricultural purposes;**
    - b) **single family residential buildings 1,500 square feet or less, not including garages, car ports, porches, cellars, or uninhabited basements or attics;**
    - c) **alterations for total projects costing \$20,000 or less if these alterations do not involve changes affecting the structural safety or public safety of the building or structure;**  
**(\*This sub paragraph (1) reorganized 01/07/19.)**
6. All plans and specifications must be accompanied by a "Plumbing System Approval Application", submitted in duplicate and signed by a New York State Registered Architect or Registered Professional Engineer. (Said forms are available at the Onondaga County Department of Water Environment Protection).
7. Plumbing plans must include details of:
  - a. The building sanitary, storm or combined sewer to the point of disposal.
  - b. The **building** water service to its point of connection to a public or private water supply.
  - c. **The building** sanitary and storm drains, roof drains, sanitary waste and vent **system** and the water distribution system.
8. To make no exceptions to any provision of these Requirements without the approval of the Onondaga County Examining Board for Plumbers.
9. To collect all fees for plumbing permits, licenses, registrations, examinations and code books, account for same and deposit them with the Commissioner of Finance of Onondaga County.
10. To keep and maintain all records pertaining to the operation and activities of the department.

11. To issue a “Plumbing System Certificate of Approval” upon satisfactory completion of any construction project. Copies of same will be sent to the Licensed Master Plumber or Licensed Plumbing Contractor “B”, the owner (or owner’s agent) and to the appropriate municipal agencies.
12. To inspect plumbing installations made in any project that is owned, funded and controlled by the New York State Urban Development Corporation. All other projects that are owned, funded and controlled by the United States government or by the State of New York shall be exempt from a “plumbing system” inspection by this department unless specifically requested in writing by the appropriate officials in charge of such projects. An inspection is required, however, of any connection made to a public sewer system that serves such projects. (See Section 3.1(G) of these Requirements.)

Section 4.2 Onondaga County Examining Board for Plumbers; Powers and Duties of

- A. To perform its duties, functions, and set forth Requirements for Implementation for plumbing in accordance with ARTICLE 4 of the General City Law of the State of New York.
- B. To examine all persons who comply with the requirements contained in Section 2.1 of these Requirements for the purpose of obtaining a Certificate of Competency as a Master Plumber.
- C. To examine all persons who comply with the requirements contained in Section 2.2 of these Requirements for the purpose of obtaining a Certificate of Competency as a Journeyman Plumber.
- D. To provide guidance for compliance with the New York State Uniform Fire Prevention and Building Code and to refer entities requesting formal interpretations to the Department of State, Code Division, Local Office State Office Building (315-428-4434) in which is responsible for interpretation.
- E. To hold informal hearings on violations of Local Law No. 9, 1988, as amended by Local Law No. 6, 2004.
- F. To refer to the Commissioner of Water Environment Protection of Onondaga County those violations of these Requirements that, in the opinion of the Board, may require formal hearings.
- G. To advise the Plumbing Control Section of the Onondaga County Department of Water Environment Protection of any and all decisions, findings, resolutions, examination results, material uses and other relative information pertaining to the plumbing industry within Onondaga County.
- H. The Chairman of the Examining Board shall appoint a “Journeyman Examination Committee” and a “Master Plumber’s Examination Committee”. The chairman of each of these committees shall be a person who holds a Certificate of Competency in the category of the examination to be given.
- I. All past examinations shall be kept in the possession of the Onondaga County Department of Health.
  1. **They** shall be kept in locked filing cabinets and made available to the Commissioner of Water Environment Protection and to members of the Examining Board for a period not less than five (5) years, whereupon they may be destroyed at the convenience of the Onondaga County Department of Health.
  2. **Completed or Partially Completed assemblies created by applicants as part of the Masters examination practical (Part 3) shall be retained for six months following the test completion and shall then be disposed of by the Department of Health or Onondaga County Plumbing Control. (subparagraph added 01/07/19)**

## **ARTICLE 5 - MUNICIPAL REQUIREMENTS**

### **Section 5.1 Onondaga County Department of Health: (Section Added 01/07/19)**

#### **A. Backflow Prevention on Fire Systems Required: (Reference AWWA M14- Fourth Edition – 2015)**

- 1. Backflow prevention shall be provided in accordance with the New York State Department of Health Cross Connection Control Manual and the requirements of the local water purveyors. The following are the minimum requirements for backflow prevention for Onondaga County. Individual water purveyors may have additional provisions:**
- 2. New Fire Sprinkler/Standpipe Systems in other than One and Two Family Residences: (Wet Pipe, Dry Pipe, Pre-action and Deluge)**
  - a. Non treated water (non antifreeze system, no risk of chemical addition),single source of water supply, no on-site fire water storage tank except for small expansion tanks required for system stability. Minimum requirement: DCV type backflow preventer.**
  - b. Fire systems with two sources of water from the same municipal water supply system and the same pressure zone of that system: Minimum requirement: DCV type backflow preventer on each source.**
  - c. Fire systems fed from an onsite tank: Minimum requirement: RPZ type backflow preventer.**
  - d. Fire systems feeding outside mains and/or private hydrants: RPZ type backflow preventer.**
  - e. Fire systems containing antifreeze, or having risk of chemical addition: Minimum requirement: RPZ type backflow preventer.**
  - f. Fire systems connected to a public water system with a second supply from a potable or non-potable water system: Minimum requirement: RPZ type backflow preventer.**
- 3. Existing Fire Sprinkler and or Standpipe systems in other than One and Two Family Residences: (Wet Pipe, Dry Pipe, Pre-action and Deluge):**
  - a. For existing systems with non treated water, non antifreeze system , no risk of chemical addition, a single source of water supply, no outside mains or hydrants, no on-site fire water storage , and with a UL or equivalent listed alarm check valve maintained in accordance with NFPA 25,” Standard for the Inspection, Testing and Maintenance of Water Based Fire Protection Systems”: No additional protection until system is expanded or substantially modified. When such system is expanded or substantially modified to the extent that the applicable code requires a new hydraulic analysis: Minimum requirement: DCV type backflow preventer.**
  - b. For existing systems that do not meet the requirements of (3) (a): Minimum Requirement: RPZ type backflow preventer.**
- 4. Fire Sprinkler Systems - One and Two Family Residential:**
  - a. Multipurpose and passive purge systems as defined by AWWA M14: No additional protection required other than the system required for the building.**
  - b. Other residential systems without additives, pumps or storage tanks: Minimum Requirement: DCV type backflow preventer.**
  - c. Other residential systems with additives: Minimum Requirement: RPZ type backflow preventer.**

**B. Backflow Prevention on Domestic Water Systems Required: (Reference AWWA M14- Fourth Edition – 2015)**

1. **Backflow prevention shall be provided in accordance with the New York State Department of Health Cross Connection Control Manual and the requirements of the local water purveyors. The following are the minimum requirements for backflow prevention for Onondaga County. Individual water departments may have additional provisions:**
2. **Residential Domestic Water Supply Systems: One and Two Family Houses:**
  - a. **Served by a single municipal water supply source: No additional protection required.**
  - b. **Served by more than one municipal water supply source: DCV on each service required.**
  - c. **Served by a single or multiple municipal water supply source and served by or having on the property a private surface or subsurface supply or well water supply connected to or able to be connected: RPZ on each service required. Use of an additional source requires approval of the Department of Health per the Onondaga County Sanitary Code and the water purveyor. The intent of this section is to require RPZ on any property which is equipped with a new municipal service and currently served by a surface or well supply unless that well is permanently closed and the closure registered and inspected with the Onondaga County Department of Health.**
3. **Residential, Mixed use, Commercial, Industrial, and all other Domestic Water Supply Systems other than One and Two Family Houses:**
  - a. **An air break or an RPZ type of device shall be provided for new or modified systems in occupancies (or premises) having one or more of the following hazards on the property.**
    - 1) **A second source of domestic water not from the same municipal water supply.**
    - 2) **An irrigation system.**
    - 3) **A heating or cooling system treated with chemicals except:**
      - a) **direct refrigerant systems not connected to the water supply.**
      - b) **Low pressure steam heating systems operating at not more than 15 psig.**
      - c) **Hot water heating systems treated with non-toxic chemicals and isolated at the connection to the system with a local RPZ device.**
      - d) **Chilled water or heat pump systems treated with non-toxic chemicals and isolated at the connection to the domestic system with a local RPZ device.**
      - e) **District steam systems with food grade steam.**
    - 4) **A process or industrial water system.**
    - 5) **Water in reservoirs or tanks used for firefighting, HVAC or process purposes.**
    - 6) **Swimming pools, fish ponds, mirror pools.**
    - 7) **Memorial decorative fountains and/or cascades.**
    - 8) **Cooling towers.**
    - 9) **Baptismal, quenching, washing, rinsing and dipping tanks.**
    - 10) **Reclaimed water and recycled water.**
    - 11) **Gray water.**
    - 12) **Marine connection or docking facilities.**
    - 13) **A medical facility or clinic.**
    - 14) **A mortuary.**

- 15) A laboratory except a “dry” laboratory such as a computer laboratory, psychology laboratory or similar are not considered a hazard.
  - 16) A manufacturing plant.
- b. A DCV type of device shall be provided for new or modified systems in occupancies other than the occupancies listed in above paragraph B(3)a.
4. **Backflow Prevention Submittal Requirements:**
- a. For projects where backflow prevention devices are required or provided in accordance with the New York State Department of Health Cross Connection Control Program and the above sections, the project owner or design professional shall submit an **Application for Approval of Backflow Prevention Devices** to the water purveyor for review and approval before installation. The Owner or design professional shall provide four copies of a submittal package for the proposed installation to the water purveyor. The submittal may employ the electronic forms preformatted by the Onondaga County Water Authority and available on their website. The submittal shall contain the following:
    - 1) A site plan of the facility containing a general location map, name and address of the facility, property lines, buildings, location of public water main(s), and all fire and domestic services both existing and planned, meter pits, yard piping and hydrants, fire department connections and the location of proposed backflow preventers. For simple buildings the site plan may be a production from "Google Maps" suitably marked up.
    - 2) A plumbing floor plan (plan view) or partial floor plan indicating name and address of the facility, water service(s) location, arrangement of water meter, pressure reducing valve (PRV), proposed backflow preventer(s), booster pump system, floor drain(s) and/or other arrangements for disposal of RPZ relief valve water and adjacent mechanical / electrical items.
    - 3) A vertical view (elevation) of the proposed installation showing conformance with the requirements of the New York State Cross Control Program.
    - 4) All drawings must include the name of the facility and be stamped and signed by a licensed design professional: NYS Licensed Architect or Professional Engineer.
    - 5) An Engineer’s report with the minimum requirement following the form provided by OCWA on their website.
    - 6) Documentation of the location of the 100 year flood plain relative to the project available from the FEMA website.
    - 7) A Documentation of the approval of the proposed brand and model of backflow preventer. The New York State Health Department recognizes the approval list prepared by the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California. The list is available at <https://fccchr.usc.edu/list.html>.
    - 8) A completed “Application for Approval of Backflow Prevention Devices”, signed by the design professional (Architect or Engineer).
  - b. This package shall be provided to the water supplier who will review and endorse it and then forward the final approved submittals of the BFP application submittals (four copies) to the Onondaga County Department of Health, who will review and approve or request revisions.



- c. When acceptable plans are received, the Onondaga County Department of Health will send a certificate of approval with a copy of the approved BFP application submittals to the water supplier, the applicant, the engineer and to Plumbing Control.
- d. Plumbing Control shall not be able to issue a plumbing permit until it receives a certificate of approval from the Onondaga County Department of Health and a copy of the approved plans.
- e. Form DOH-347 is available from:  
[www.health.ny.gov/enviromental/water/drinking/cross/doh347.pdf](http://www.health.ny.gov/enviromental/water/drinking/cross/doh347.pdf).
- f. See the OCWA website for specific requirements for each application and updated DOH Form 347.

(Section Consolidated from other sections and revised 1/7/19)

Section 5.2 Onondaga County Department of Water Environment Protection (WEP)

- A. ARTICLE III (Prohibited uses and discharge limitations) of the Onondaga County Water Environment Protection (WEP) Rules and Regulations relating to the Use of the Public Sewer System shall be considered to be part of these Requirements.
- B. No connection or opening shall be made into any sanitary sewer manhole without first obtaining written permission from the Sewer Maintenance Engineer's Office.
- C. No opening shall be made into any sanitary sewer without the express permission of the Sewer Maintenance Engineer and the use of materials and methods approved by that office.
- D. Discharge of waste water Fats, Oil or Grease (FOG) to a sewer system within the county of Onondaga due to failure to provide appropriate grease interceptors as described in Section 5.5 below is considered a violation of the County Sewer Use law. (Section Added 1/7/19)**

Section 5.3 City of Syracuse - Engineering Department

- A. Division of Sewers:
  - 1. **The** connection of any private sewer, whether it is sanitary or storm sewer shall require **approval from the City Engineer or Commissioner of the Department of Public Works** or their representative prior to the issuance of a plumbing permit by the Plumbing Control Section of the Onondaga County Department of Water Environment Protection.
  - 2. **All** sewer laterals must be flushed out by the City of Syracuse Department of Public Works before a plumbing contractor can make connection to same. No inspection will be made by the Plumbing Control Section of WEP unless the responsible licensed plumbing contractor has proof that said lateral has been flushed and televised to the main sewer and certifies lateral to be in good condition. A video recording shall be provided to the City Sewer Department and Plumbing Control.
  - 3. All sewer lateral repairs shall be reconstructed to the curb line or edge of pavement. If the licensed plumbing contractor determines there is an obstruction within the service lateral that cannot be cleared and that the obstruction is under the street bed it is the plumber's responsibility to contact the City sewer department and demonstrate same.
  - 4. All new site development will require new laterals constructed to the main sewer.

B. Department of Water:

1. All requirements pertaining to Licensed Master Plumbers or Plumbing Contractors “B” licensed to work within the City of Syracuse that are contained in the Rules and Regulations of the City of Syracuse Division of Water shall be considered a part of these Regulations.
2. **All water meters 3-inches and larger shall be provided with a lockable bypass valve. (Paragraph added 01/07/19)**
3. Conform to Onondaga County Department of Health requirements for Backflow prevention (Section 5.1). OCWA forms may be utilized for submission in City of Syracuse in lieu of forms provided by City of Syracuse.

Section 5.4 Onondaga County Water Authority (OCWA)

A. All applications for the use of water must be made in writing on forms provided by the Authority.

**B. Services & Sewers: Protection from Freezing (See Section 5.5)**

C. Support of Meters and Backflow Preventers:

1. Water services shall include metallic piping meeting the Plumbing Code of New York **State and International Plumbing Code on both sides of the meter and between** the backflow preventer (if provided) and the meter. Piping shall be suitably and rigidly supported from the building structure.

D. A separate application must be made for each premise.

E. Sub-metering is not permitted.

F. Fire Protection Services:

1. Check with the Authority for all specific requirements.
2. No interior taps may be made in a fire protection line other than for fire suppression system purposes.
3. A dual check valve backflow preventer is the minimum requirement on all fire services per Fire Code of New York State and Plumbing Code of New York State.

G. Meters:

1. A valve is required on both sides of any water meter.
2. All water meters must be located near the point of entry of the water service, **along an exterior wall** and shall be conveniently accessible for reading.

H. Services Pipes:

1. Check with the Authority for size and material requirements before any installation.
2. All service pipes shall have a minimum ground cover of four and one-half feet (4½’).
3. Where line pressure on service pipes exceeds eighty pounds per square inch (80 psi) gauge pressure an approved pressure reducing valve must be installed on the inlet side of the water meter.

I. Backflow Prevention Devices:

1. Backflow prevention devices shall be installed on water services to premises where there is a potential hazard to the public water system and shall be in accordance with specifications and approval of OCWA and Health Department.

2. Prior to installation of backflow prevention devices, the installing contractor or owner shall submit a suitably completed NYS Form DOH 347 "Application for Approval of Backflow Prevention Devices" and other submittals as directed by OCWA.
3. Backflow prevention devices shall be installed on water services to premises where there is a potential hazard to the public water system and shall be in accordance with specifications and approval of OCWA and Health Department.

#### Section 5.5 Onondaga County Plumbing Control

##### A. Services & Sewers: Protection from Freezing:

1. Pumped sewers and sewer force mains: Cover of 6" more than frost depth. In Onondaga County: 48" minimum cover. Designer should take local conditions such as wind exposure, large paved areas, etc. into account and provide additional cover as required.
2. Household sewers to septic tanks: Protect with suitable insulation board over sewer when cover is less than 24" in grass areas. Protect with insulation board over sewer when cover is less than 42" in pavement areas.
3. Building sewers: 48" minimum cover. Protect with suitable insulation board when cover is less than 48" or when local conditions dictate.
4. Building domestic water service, water lines with normal flow: 54" minimum cover. Designer and contractor should take local conditions such as wind exposure, large paved areas into account and provide additional cover as required.
5. Fire service lines, yard piping lines, lines with little or no flow in normal conditions: 66" to 72" minimum cover in accordance with NFPA 24, Standard for the Installation of Private Fire Service Mains and their Appurtenances. Designers are cautioned that use of insulation board over shallow lines which have little flow is not effective in Onondaga County because lines with little or no flow have no self-heating effect and insulation does not prevent freezing.
6. Water services shall enter building walls horizontally at sufficient depth to avoid freezing. On shallow building foundations, or slab-on-grade, the service shall rise above floor immediately upon entering the building footprint. Meters and backflow preventers shall be placed along exterior walls.

B. Disinfection of Water Supply Piping: All newly installed lines carrying potable water and parts of existing systems which have been altered, extended or repaired prior to use shall be disinfected. See the Appendix for guidance on disinfection methods.

C. When repair or replacement of a Building (house) Sewer or Drain eliminates an active basement floor drain, or there is an absence of one, a recessed sump & effluent pump must be installed, for removal of surface / clear water. Said pumped water must discharge to daylight or approved point of disposal. Any abandoned piping left in place must be capped at both ends & made water tight to prevent seepage of any kind back into premises. Any floor / wall penetrations of existing piping shall be made water tight. (Item added 01/07/19)

D. Any commercial appliance with a hard piped or rigid connection to the water supply or drainage system in Onondaga County requires a permit issued to a licensed plumber and subsequent inspection. Note that commercial dish machines require an indirect air gap connection for waste. Any new or replacement installation shall be inspected by Plumbing Control. (Item added 09/24/18)

E. At any location where a rise or wash soap dispensing system is connected to the domestic water, spring check valves shall be provided on the supply piping to the cold and hot feeds to the fixture where the dispensing system is connected. (Item added 09/24/18)

- F. For new construction or alterations level 2 or above, at any location where a service sink, mop sink or utility sink, a 3 bay sink or dishwashing machine is provided, the project shall provide spring check valves on the supplies to each fixture, and provide a separate water supply point for wash/rinse soap dispensing equipment. (Item added 09/24/18)
- G. The effluent from oil interceptors shall discharge to the sanitary sewer on the downstream (street) side of the house trap. A local vent shall be installed off the top portion of any tanks incorporated with the system to remove any oil fumes or gaseous fumes. Venting must be in a metallic pipe material secured to structure and extended to a minimum of twelve (12) feet above finished grade. Vent shall be equipped with an insect/rodent screen.
- H. Where a water service is removed or relocated at a building, the former pipe or pipe sleeve which carried the service shall be capped at the inside and outside walls of the building, and any openings grouted full. (Item added 11/19/18).**
- I. Where a water service is discontinued and before demolition of the served structure, coordinate with the water purveyor in advance. Service shall be exposed at the curb stop, disconnected and capped at the valve outlet. Obtain an inspection of the capped water service by the water purveyor. In jurisdictions where the water purveyor declines to inspect removed services, obtain a plumbing inspection by Plumbing Control. Provide a stake to grade painted blue. (Item added 09/04/19)**
- J. Where a building sewer is disconnected at a building, it shall be disconnected at the property line and capped with a tight fitting internal wing nut cap braced to undisturbed earth and encapsulated with bag mixed concrete. Any standing water in the trench shall be removed and high ground water maintained below the cap for 48 hours after concrete is placed. (Item added 11/19/18). Backfill to grade after the 48 hours inspection period, compacting to avoid settlement, and bury a stake to grade painted green. This work to be treated as a “sewer repair” with a plumbing permit and inspection required. (Item added 9/4/19)**
- K. Grease Interception Required: (Section Revised 01/07/19):**
1. **Grease Interceptors are required to prevent damage to private and public sewage disposal systems in accordance with County Sewer Law. Typical requirements are as follows:**
    - a. Any new or altered food processing, production or handling facility containing at least a commercial dishwasher or 3-bay sink shall have all kitchen fixtures connected to a means of grease interception. Hand sinks shall be connected to the grease interceptor unless technically infeasible.
    - b. Private one, two and multiple family residences are not required to have a means of grease interception unless they have equipment described in subparagraph (a). above.
    - c. The typical office kitchenette with a bar sink refrigerator and/or residential style dishwasher would not normally require grease interception.
    - d. A catering kitchen where food is prepared would require grease interception.
    - e. A commercial establishment which is subject to inspection by the Food Protection Section of the Onondaga County Health Department would require grease interception.
    - f. Projects of new construction and projects working under Alteration Level 2, Level 3 or change of occupancy as defined by the Existing Building Code of New York State shall provide an exterior grease interceptor within 50 feet of the kitchen drain.
    - g. Projects may apply to provide interior grease interception or point source grease interception upon application to and approval of Onondaga County Plumbing Control. Commercial operations serving significant numbers of meals per day and per week will normally be required to provide exterior grease interceptors.

2. Submittals Required:
  - a. A submittal shall be provided to Plumbing control for the proposed Grease Interceptor, employing the format provided by Plumbing Control. The following information shall be provided:
    - 1) Total calculated occupant load.
    - 2) Hours and Days of Operation.
    - 3) Estimated total number of meals prepared daily.
    - 4) Menu Items / Type of Cuisine.
    - 5) Service wear: plates, cups, bowls, glassware, flatware: Washable / reusable?
    - 6) **Complete list of kitchen equipment related to plumbing with quantities provided: example hand sink, pot sink, prep sink, dishwasher, ware washer, pre rinse sink, mop sink, disposal, etc.**
    - 7) **Proposed location of interceptor device (outdoor, indoor)**
    - 8) **Vertical & horizontal distances / separation between interception device and equipment served.**
    - 9) **Floor plan of kitchen & serving area.**
    - 10) **Accessibility of interception device for cleaning / pumping.**
    - 11) **Accessible toilet rooms provided?**
3. Grease interceptors shall comply with the International Plumbing Code and be sized correctly for the type of interceptor proposed.
4. Types of Interceptors and Sizing Criteria:
  - a. **Interceptors may be of the Gravity Grease Interceptor or the Hydro-mechanical Type. All grease interceptors shall have a minimum of two compartments with a minimum of 3 inch diameter fittings designed for grease laden waste. A sanitary Tee with open end up shall be installed at the inlet of the interceptor and a similar sanitary tee with open end up shall be installed at the outlet of the interceptor.**
  - b. **There shall be adequate access for cleaning all areas of the separator. A minimum of one access point into each compartment within the separator shall be provided. In addition, no access points shall be further apart than 10 feet regardless of the number of compartments. Indoor Separator covers shall be of gas-tight construction. Interceptor covers shall have a minimum opening dimension of twenty (20) inches in diameter.**
  - c. **Each grease interceptor shall have an approved water seal of not less than two (2) inches in depth or the diameter of its outlet whichever is greater.**
  - d. **Gravity Grease Interceptors shall be sized with a liquid volume minimum of 1,000 gallons corresponding to a 30 minute retention time for up to 33.3 gpm (connected fixtures up to 66.6 DFU), or 1,250 gallons corresponding to a flow rate up to 41.6 gpm.(connected fixtures up to 83.2 DFU). For sizing projected flows, the designer may normally neglect inactive connected floor drains and inactive or non coincident fixtures for the purposes of the unit sizing. For locations with loads greater than 83 DFU, provide a proposed sizing to plumbing control for review and approval.**
  - e. **Hydro-mechanical Grease Interceptors shall be sized conservatively according to the number of meals per week, a factor of grease production per meal, and the pump out frequency in weeks between pump outs. Designers shall verify that peak anticipated flow in gpm will not exceed unit ratings. Unit shall be PDI certified. Provide to plumbing control a manufacturer certified sizing calculation for the unit submitted.**

**5. Piping and Layout Requirements:**

- a. Grease interceptors shall be so located as to be accessible for service without the use of ladders or the removal of bulky equipment.
- b. Each grease interceptor shall serve only one business establishment. Multiple business connections to a single interceptor shall not be permitted, unless under single ownership and management and then submitted and approved by Plumbing Control. Such approval to be based upon the projected current and future use of the location(s), and the effective program presented for maintenance and long term operation of the system.
- c. An accessible hose bib shall be located within 25 feet of every grease interceptor.
- d. Drainage piping through the kitchen to the interceptor shall be of a type of material as specified by the design professional. If wastewater temperatures allow, the use of PVC for grease laden waste instead of Cast Iron is encouraged.
- e. All waste shall enter the grease interceptor through the inlet pipe.
- f. Two way cleanouts shall be installed in the drainage piping inlet and outlet side of each grease interceptor.
- g. Each fixture discharging into a grease interceptor shall be trapped and vented in an approved manner in accordance with code.
- h. When grease interceptors are located in areas of pedestrian or vehicle travel, the design of the interceptor shall be adequate to support the imposed load. Structural calculations to verify its adequacy may be required.

**6. Inspection and Testing:**

- a. **Water Test.** A water test shall be applied to the level of the top of the interceptor inlet opening through the outlet opening or discharge side of the interceptor. Interceptors shall show no leakage from section seams, pinholes or other imperfections. Any leakage below this level is cause for rejection.

**7. Backfill.** Interceptors shall not be backfilled until the inspection has been made to verify there are no leaks.

**8. Maintenance:** Interceptors shall be inspected and maintained so that there is no carryover of grease to the downstream sewer. A record of maintenance shall be made available to Plumbing Control upon request.

**L. Lint Interceptors:** In Multi-Family Dwelling units exceeding 2 family dwellings, and any commercial application involving one or more automatic clothes washers, an approved lint interceptor shall be required. Actual type and size of interceptor to be determined by nature of use coupled with quantity of machines served, in accordance with Onondaga County Sewer Use Law.

**M. Condensate Disposal:**

1. **Condensate Disposal:** Liquid combustion by-products of Condensing Appliances shall be collected and discharged to an approved point of disposal.
2. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved point of disposal.

3. Pursuant to Onondaga County Local Law 2011-1, Section D, all condensate waste water shall be treated as clear water waste, and is not allowed to discharge into the Sanitary Sewer. Discharge of said water is allowed to connect to the storm sewer, with a back water valve, directly or indirectly, in accordance with the Design Professional. Any and all condensate piping connected to the plumbing system shall require the appropriate plumbing permit, and be inspected by an Onondaga County Plumbing Inspector.

Section 5.6 **Standard Details (Section Revised (01/07/19))**

- A. Appended to these Requirements for Implementation are Standard Details which have been prepared for the convenience of the inspector, master plumber and staff. Details are marked as either “Mandatory” detail, “Suggested” detail or “Informational” detail.
- B. Mandatory details, such as the methods of making connections to sewer laterals have been reviewed by the various Municipalities in the County and are the accepted minimum standards.
- C. Suggested details are details which have had successful testing and use in the County and are suggested to the Plumbing contractor for his or her convenience.
- D. Informational details such as the details for a gravity grease interceptor and details for a hydro-mechanical grease interceptor are intended to inform the contractor of desired features of each installation.
- E. The following Details have been withdrawn in this issue of these Requirements for Implementation:
  1. Concealed Fresh Air Inlet has been withdrawn. New installations shall employ an offset fresh air inlet. Contact Plumbing Control.

## ARTICLE 6 - INCORPORATED DOCUMENTS

The following documents are referenced herein and are hereby adopted in these requirements for implementation. They are available at the indicated web addresses. In the case of permit and application forms, the printed form is referenced. Users may view or download the following documents or also fill out an online form at HU [www.ongov.net/wep/we1601.htm](http://www.ongov.net/wep/we1601.htm)UH for the Onondaga County items or HU [www.health.ny.gov/environmental.htm](http://www.health.ny.gov/environmental.htm)UH for the New York State items.

1. Local Law No 9, 1988 as amended by Local Law No 6, 2004 (page we1603a.pdf)
2. Plumbing Permit Fee Schedule – Effective Jan 1, 2014 <[www.ongov.net/wep/we1602.html](http://www.ongov.net/wep/we1602.html)>
3. Onondaga County Department of Water Environment Protection - Plumbing Control Permit Application – Effective 2014 (1 page) (page we1601d.pdf)
4. Onondaga County Department of Water Environment Protection – Plan Review Application – Effective 2014 (1 page) (page we1601e.pdf)
5. Homeowners package (page we1601a.pdf) consisting of:
  - a. Onondaga County Department of Water Environment Protection – Plumbing Permits for Homeowners (1 page)
  - b. Onondaga County Department of Water Environment Protection – Homeowner Plumbing Permit Request Statement (1 page)
  - c. Onondaga County Department of Water Environment Protection – Homeowner Permit Review Form (1 page)
6. Onondaga County Department of Water Environment Protection – Application for Storm Water Piping Installation (2 pages) (page we1601b.pdf)
7. Grease Interceptor information (page we 1601c.pdf) consisting of:
  - a. Onondaga County Department of Water Environment Protection – Grease Interceptors: Fact Sheet (2 pages)
  - b. Onondaga County Department of Water Environment Protection – Application for Interior Grease Interceptor (2 pages)
8. Onondaga County Department of Water Environment Protection – Current period Apprentice Plumber Registration Form (1 page) (page we1601f.pdf)
9. Onondaga County Department of Water Environment Protection – Current Period Journeyman Plumber Registration Form (1 Page). (page we1601g.pdf)
10. Guidelines for Designing Backflow Prevention Assembly Installations – Supplement to the 1981 Cross Connection Control Manual – January 1992. Available at HU [www.health.ny.gov/environmental/water/drinking/cross/guide.htm](http://www.health.ny.gov/environmental/water/drinking/cross/guide.htm)U
11. Cross Connection Control Policy for Single or Dual Family Residential Customers – Technical reference – Item Number PWS 12. Available at HU [www.health.ny.gov/environmental/water/drinking/cross/pws12.htm](http://www.health.ny.gov/environmental/water/drinking/cross/pws12.htm)U
12. **10NYCRR – Section 5-131 – Cross Connection Control. Available at: HU [www.health.ny.gov/environmental/water/drinking/cross/part5.htm](http://www.health.ny.gov/environmental/water/drinking/cross/part5.htm)U**
13. **OCWA Customer Rules (latest version)**



The following standard details provided by the Onondaga County Board of Plumbing Examiners are incorporated herein and appended to this document:

- Recommended Procedure for Disinfection of Water Supply Piping
- Detail 2019-1 (Mandatory) PVC Building Sewer Connection Details
- Detail 2019-2 (Mandatory) Cast Iron Building Sewer Connection Details
- Detail 2019-3 (Mandatory) Building Trap with Cleanouts & Offset Fresh Air Inlet
- Detail 2019-4 (Mandatory) Single Vented Trap with Fresh Air Inlet
- Detail 2019-5 (Withdrawn) Concealed Air Inlet no longer Allowed
- Detail 2019-6 (Informational) Twin Cleanout Details
- Detail 2019-7 (Informational) Concrete Gravity Grease Intercepting Manhole
- Detail 2019-8 (Informational) HDPE Grease Intercepting Manhole
- Detail 2019-9 (Informational) Hydro-Mechanical Grease Manhole Data Form
- Detail 2019-10 (Informational) Storm Water Catch Basin
- Detail 2019-11 (Informational) Garage Sand Interceptor W / Trench Drain
- Detail 2019-12 (Mandatory) Sanitary Manhole with Outside Drop Connection
- Detail 2019-13 (Mandatory) Sanitary Manhole with Inside Drop Connection
- Detail 2019-14 (Mandatory) Building Drain, Backwater Valve
- Detail 2019-15 (Mandatory) Sewage Ejector Interlock to Domestic Water Supply
- Detail 2019-16 (Informational) Island Vent Waste & Piping
- Detail 2019-17 (Informational) Domestic Sewage Ejector
- Detail 2019-18 (Informational) Typical Water Service (**withdrawn**) – See **OCWA Details D17 & D21**
- Detail 2019-19 (Informational) RPZ Backflow Preventer Installation
- Detail 2019-20 (Informational) **Vertical** DCV Backflow Preventer Installation
- Detail 2019-21 (Informational) **Horizontal** DCV Backflow Preventer Installation.
- **OCWA Information Detail D17 Water Service and Meter Installation with Pressure Reducing Valve**
- **OCWA Informational Detail D21 Typical Installation Combined Water Service**

## **ARTICLE 7 – ADOPTION**

This document providing Requirements for Implementation of the New York State Fire Protection and Building Code was adopted by vote of the Onondaga County Examining Board for Plumbers **on August 26, 2019 as confirmed by vote of the Board on September 30, 2019 and shall remain in effect continuously unless superseded by vote of the Examining Board. Revisions to these requirements since a prior Issue have been identified in the text or in bold print.**

### **ONONDAGA COUNTY EXAMINING BOARD FOR PLUMBERS**

**Alfie LaRosa, Chairman**, representing the Onondaga County Association of Plumbing Contractors

**Eric Austin, Board Member**

**Dennis Miesner, Board Member**, representing the Onondaga County Department Water Environment Protection

**Jeffrey Till, P.E., Board Member**, representing the Onondaga County Health Department

#### **Advisory Members:**

**Richard T. Lafferty, A.I.A, Advisory Member**

**Philip A. Peterson, P.E., Advisory Member**

**Salvatore Sciuga, Jr, Advisory Member**

### **Appendix: Recommended Procedure for Disinfection of Water Supply Piping:**

All newly installed lines carrying potable water, and parts of existing systems which are 2" and larger and have been altered, extended or repaired, prior to use shall be disinfected and tested as follows:

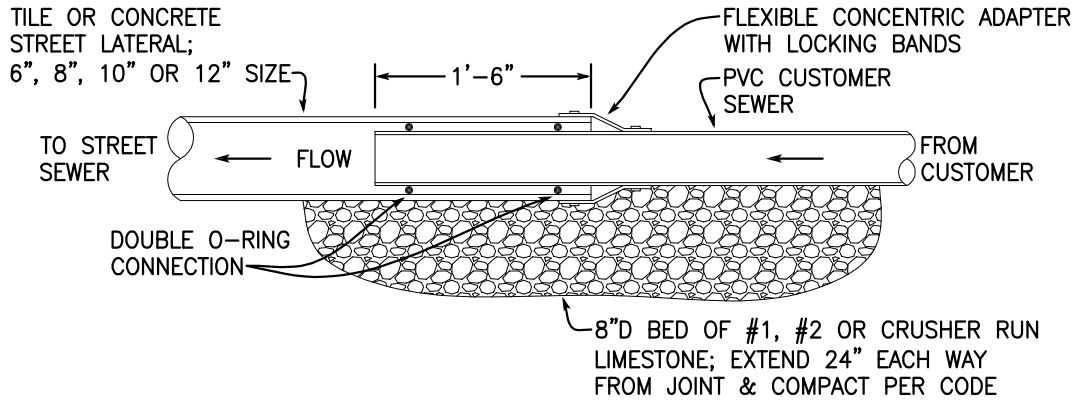
All newly installed lines carrying potable water and parts of existing system which have been altered, extended or repaired prior to use shall be disinfected. Before any use of system is made for domestic purposes, disinfect by the following method **according to ANSI/AWWA C651-05**:

Proceed by slowly filling with water to which a disinfecting agent has been added at a rate **giving 25 PPM of chlorine, as determined at regular intervals in accordance with standard methods for the examination of water and wastewater or AWWA Manual 12. After lines have been filled for a period of 24 hours, test for residual chlorine with a suitable meter or test kit. Confirm that the kit shows not less than 10 PPM. If not less than 10 PPM is indicated, drain or flush out the line and repeat disinfection treatment until test indicates at least 10 PPM or residual chlorine after three (3) hours. The line shall then be flushed out until all traces of chemical have been removed to the extent of 0.2 PPM maximum chlorine or the level of the supply water chlorine if it is higher. Perform a bacteriological test and a second confirming bacteriological test after 24 hours and submit results to plumbing control.**

Do not over chlorinate. 25 PPM is attained by mixing 3½ oz. of standard household chlorine bleach (3% chlorine) or 1¾ oz. of concentrated household bleach (6%) chlorine in 30 gallons of water.

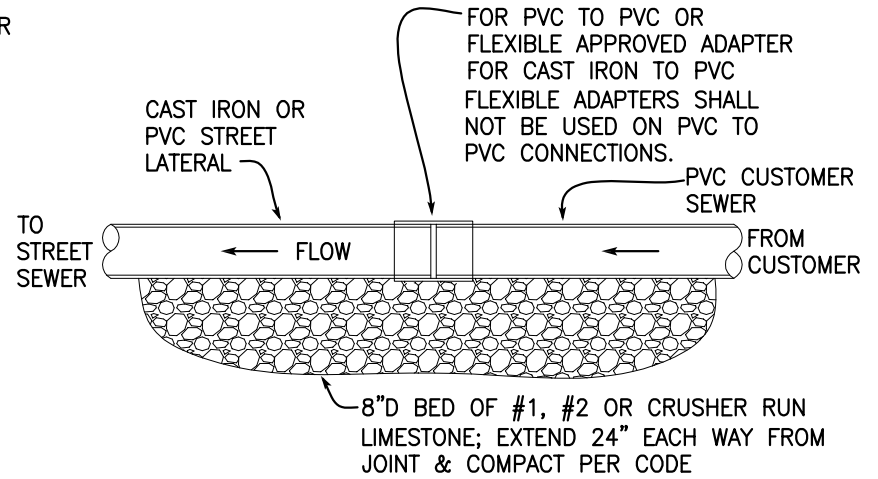
Do not use commercial strength sodium hypochlorite (12½% chlorine) except on large public water mains because it is difficult to avoid over-chlorinating.

# PVC BUILDING SEWER CONNECTION DETAILS



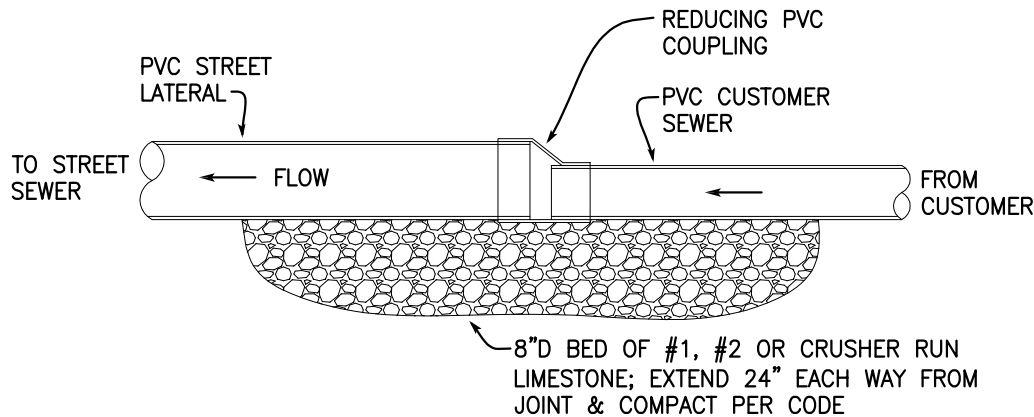
**DETAIL 1**

## PVC TO TILE OR CONCRETE STREET LATERAL



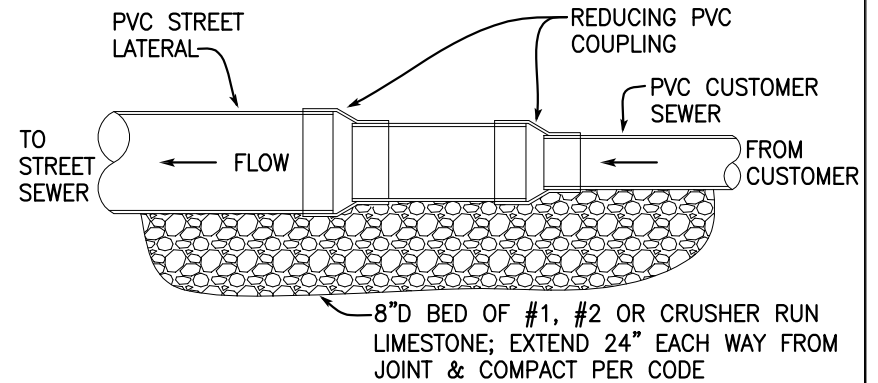
**DETAIL 2**

## EQUAL SIZE PVC SEWER & PVC STREET LATERAL



**DETAIL 3**

## PVC STREET LATERAL EXISTING PVC SEWER



**DETAIL 4**

## LARGE PVC TO MUCH SMALLER PVC CUSTOMER LATERAL - USE MULTIPLE REDUCERS IN STEPS

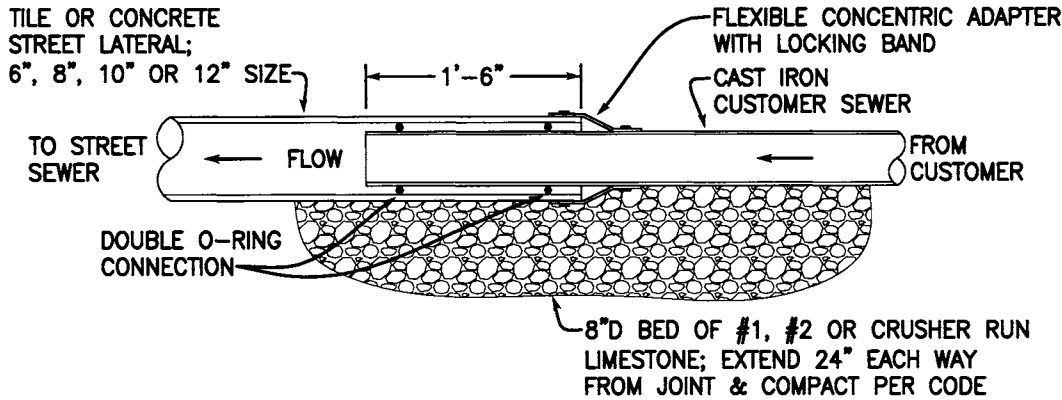
**NOTE:**

1. FLEXIBLE ADAPTERS SHALL NOT BE USED ON PVC TO PVC CONNECTIONS.

(MANDATORY)		OCBPE DETAIL 2019-1
PVC CONNECTIONS TO SEWER LATERAL		
DATE:	SCALE:	REV. NO.
01/07/19	NOT TO SCALE	1

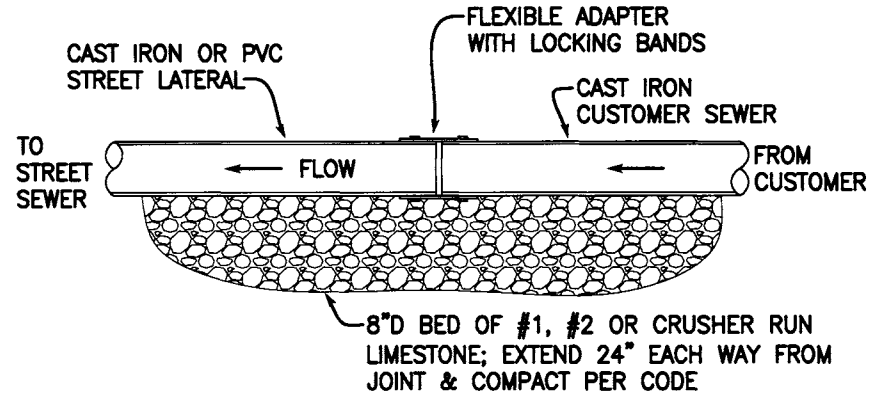
(SUPERSEDES DETAIL 2014-2-WITHDRAWN)

# CAST IRON BUILDING SEWER CONNECTION DETAILS



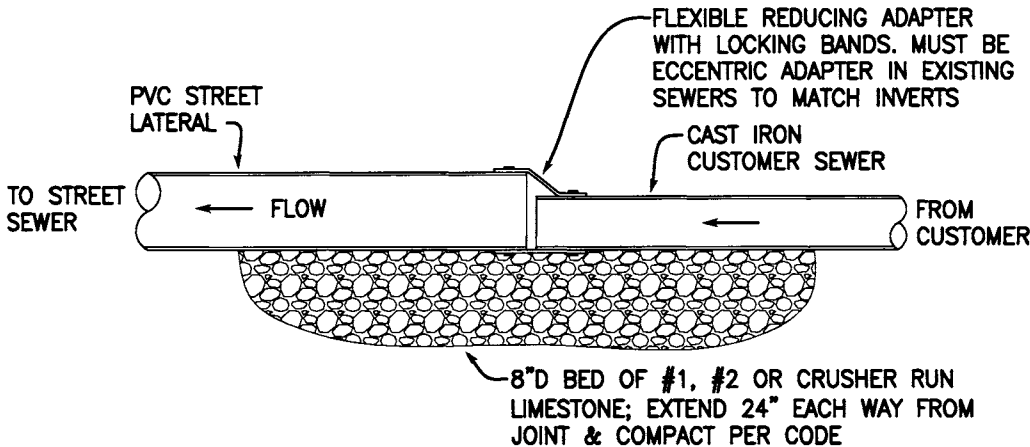
**DETAIL 5**

## CAST IRON TO TILE OR CONCRETE STREET LATERAL



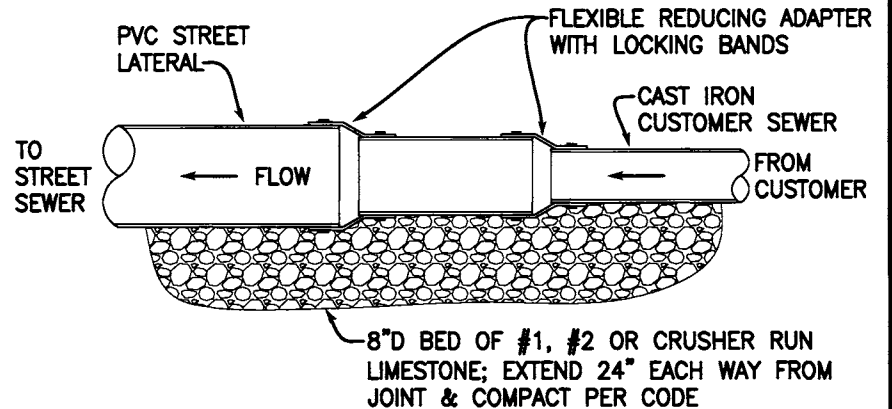
**DETAIL 6**

## CAST IRON TO EQUAL SIZE CAST IRON OR PVC STREET LATERAL



**DETAIL 7**

## PVC STREET LATERAL EXISTING CAST IRON SEWER (MATCHING INVERTS)



**DETAIL 8**

## LARGE PVC LATERAL TO MUCH SMALLER CUSTOMER SEWER - USE MULTIPLE REDUCERS IN STEPS

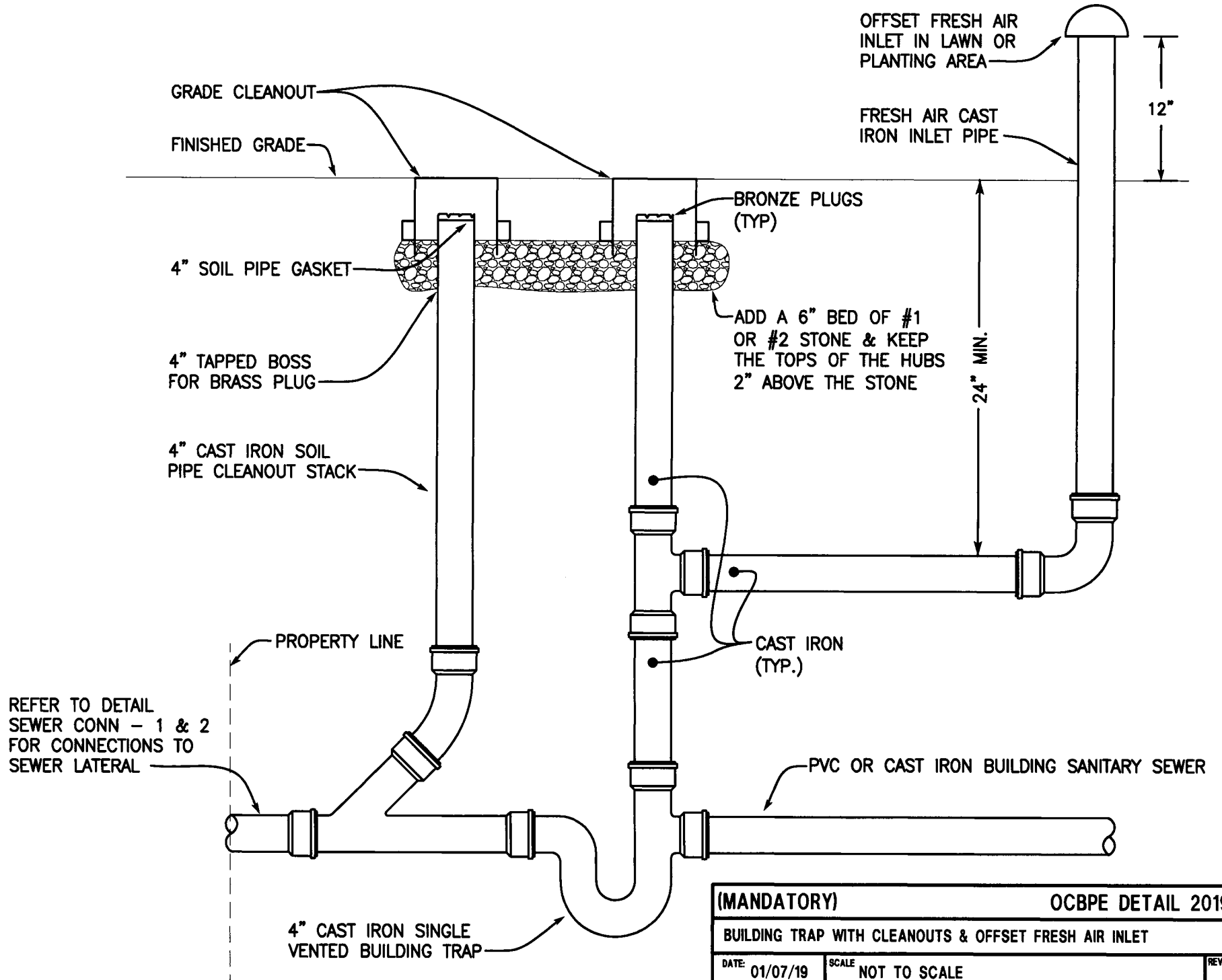
**NOTE:**  
 2. FLEXIBLE ADAPTERS SHALL BE ELASTOMERIC PVC OR EPDM WITH STAINLESS STEEL LOCKING BANDS MANUFACTURED BY FERNGO, MISSION OR EQUAL.

(SUPERSEDES DETAIL 2014-2-WITHDRAWN)

(MANDATORY)		OCBPE DETAIL 2019-2
CAST IRON CONNECTIONS TO SEWER LATERAL		
DATE: 01/07/19	SCALE: NOT TO SCALE	REV. NO. 1

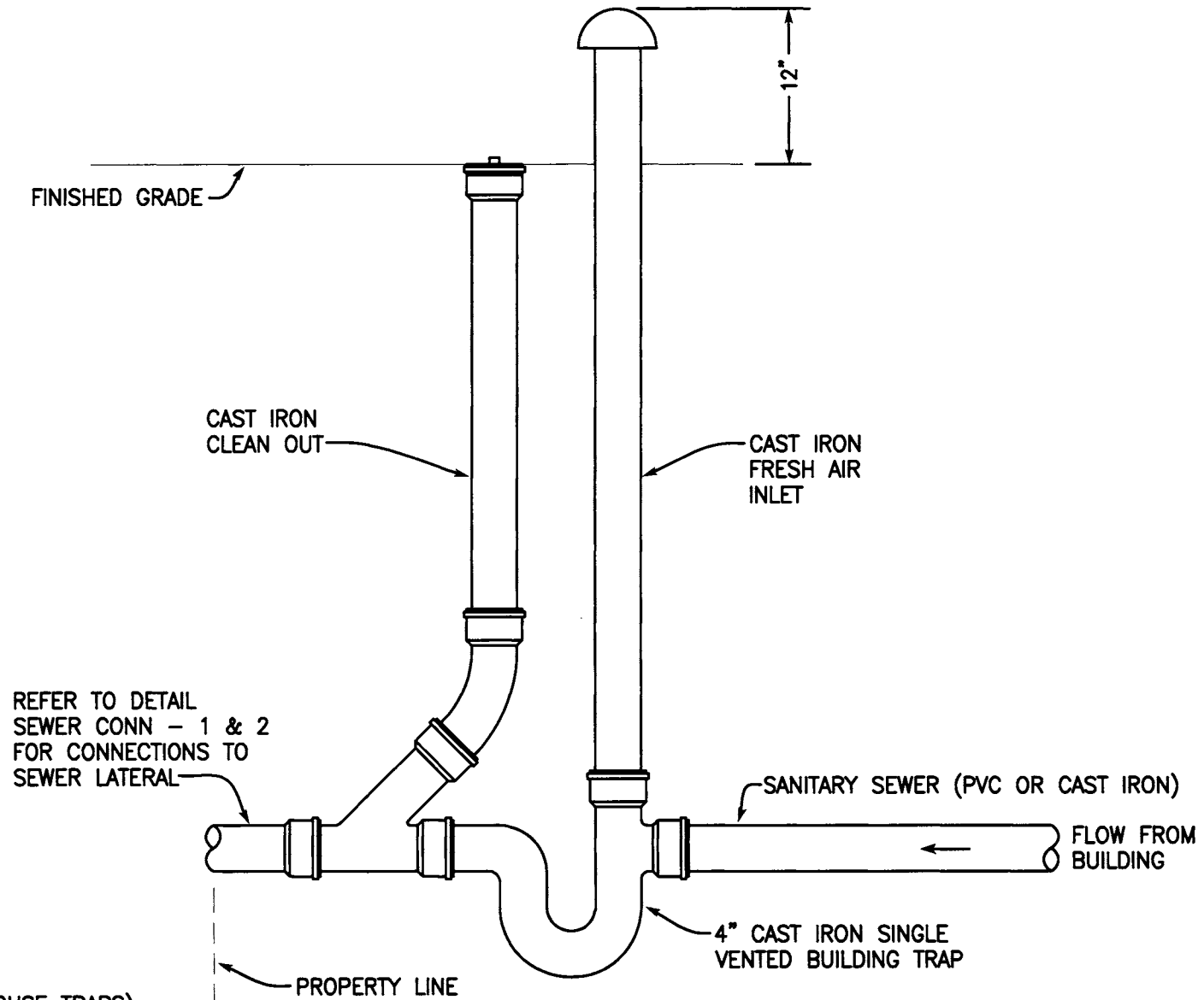
N:\420009\OnonCounty\_Standard\_Details\DWG\_Current\SEWER CONN LATERAL\_2019-1\_2019-2.dwg, 12/18/2018 1:42:44 PM, N96

N:\420009\Onon County\_Standard\_Details\DWG\_Current\BLDG TRAP OFFSET FAI\_2019-3.dwg, 12/19/2018 7:14:24 AM, N96



<b>(MANDATORY)</b>		<b>OCBPE DETAIL 2019-3</b>
<b>BUILDING TRAP WITH CLEANOUTS &amp; OFFSET FRESH AIR INLET</b>		
DATE: 01/07/19	SCALE: NOT TO SCALE	REV. NO. 5

M:\120000\Onondaga County\_Standard\_Details\DWG\_Current\BLDG\_TRAP\_CONCEALED\_2019-4.dwg\_12/19/2019 7:14:55 AM\_N06

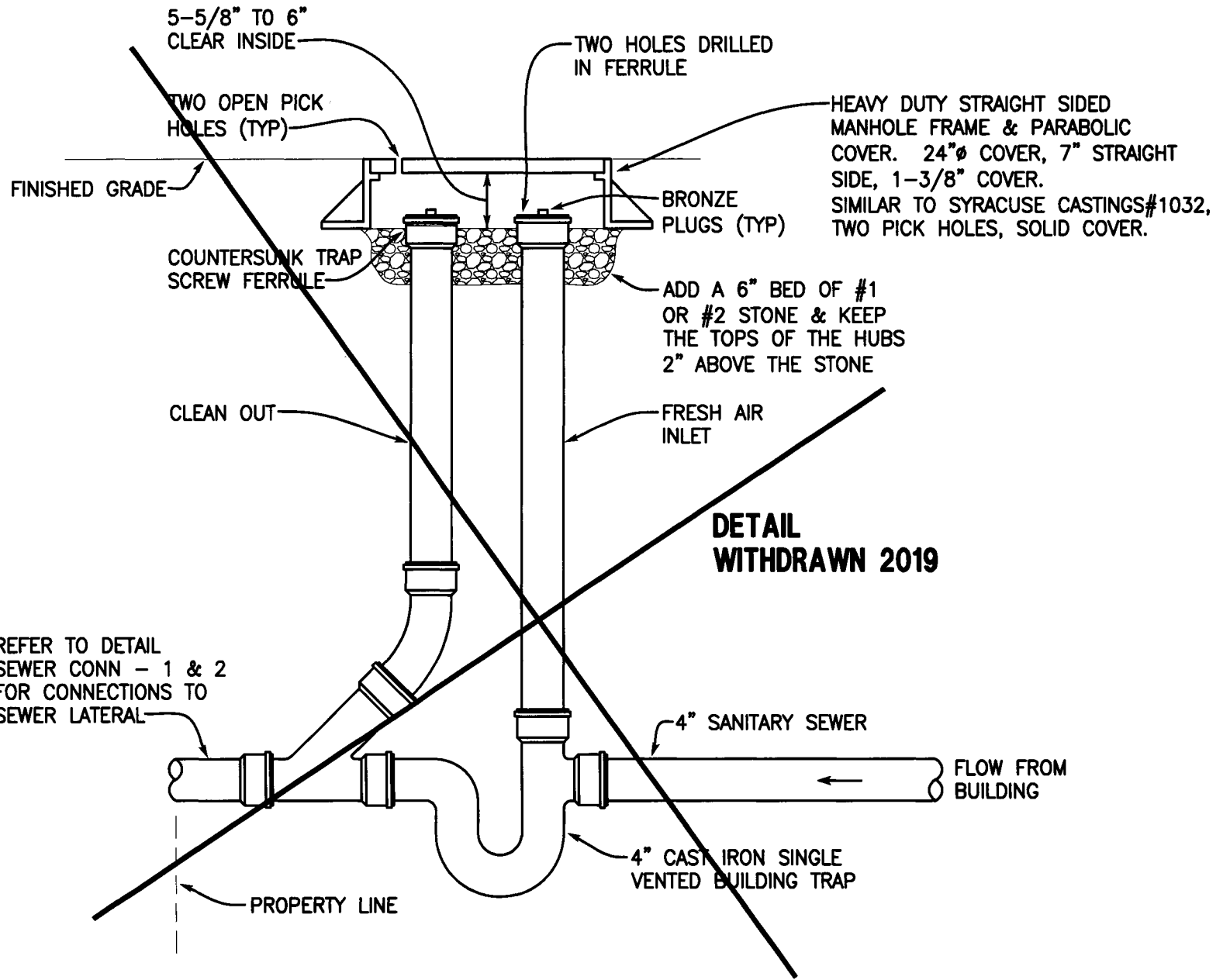


**NOTE:**

1. BUILDING TRAPS (HOUSE TRAPS) ARE REQUIRED ON ALL SANITARY AND STORM SEWERS CONNECTING TO PUBLIC SEWERS IN ONONDAGA COUNTY.
2. BUILDING TRAPS SHALL NOT BE INSTALLED ON SEPTIC TANK SYSTEMS.

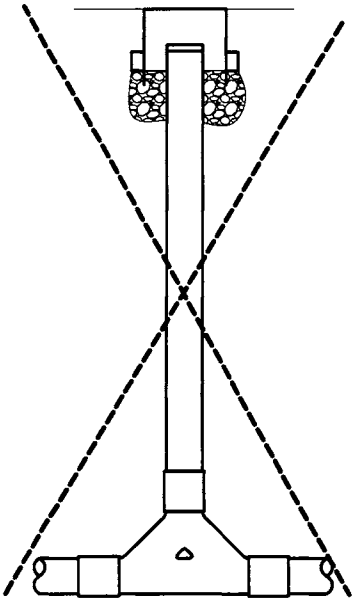
(MANDATORY)		OCBPE DETAIL 2019-4	
SINGLE VENTED TRAP WITH FRESH AIR INLET			
DATE:	01/07/19	SCALE	NOT TO SCALE
		REV. NO.	5

N:\4200000\Ocean County\_Standard\_Details\DWG\_Current\BLDG\_TRAP\_CONCEALED\_FAL\_2019\_5.dwg\_12/10/2018 7:45:26 AM\_N06

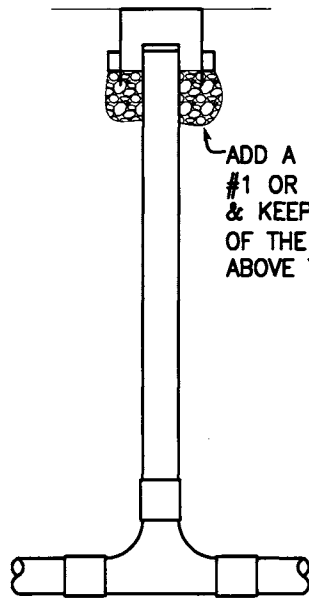


(INFORMATIONAL)		WITHDRAWN DETAIL 2019-5	
SINGLE VENTED TRAP WITH CONCEALED AIR INLET			
DATE:	01/07/19	SCALE	NOT TO SCALE
		REV. NO.	5

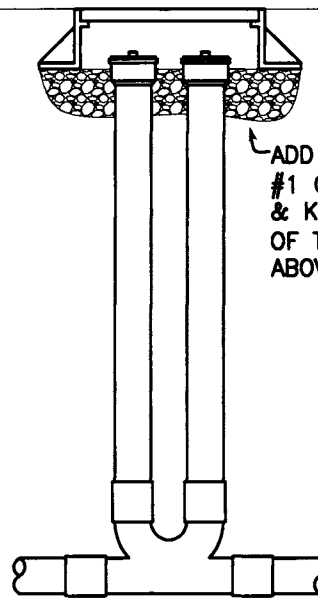




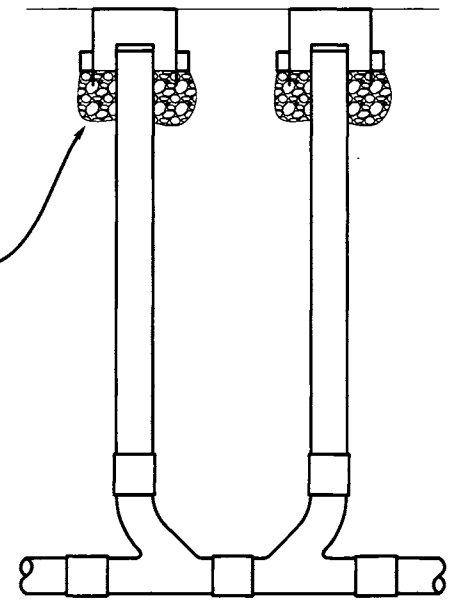
KELLY TWO-WAY  
CLEANOUT  
IF IT CONTAINS A  
STIFFENER CROSSING  
INSIDE FITTING  
NOT ACCEPTABLE



TWIN CLEANOUT  
SIMILAR TO CHARLOTTE  
PART NO. PVC 448  
TWO-WAY CLEANOUT  
(ALL HUB)  
ACCEPTABLE



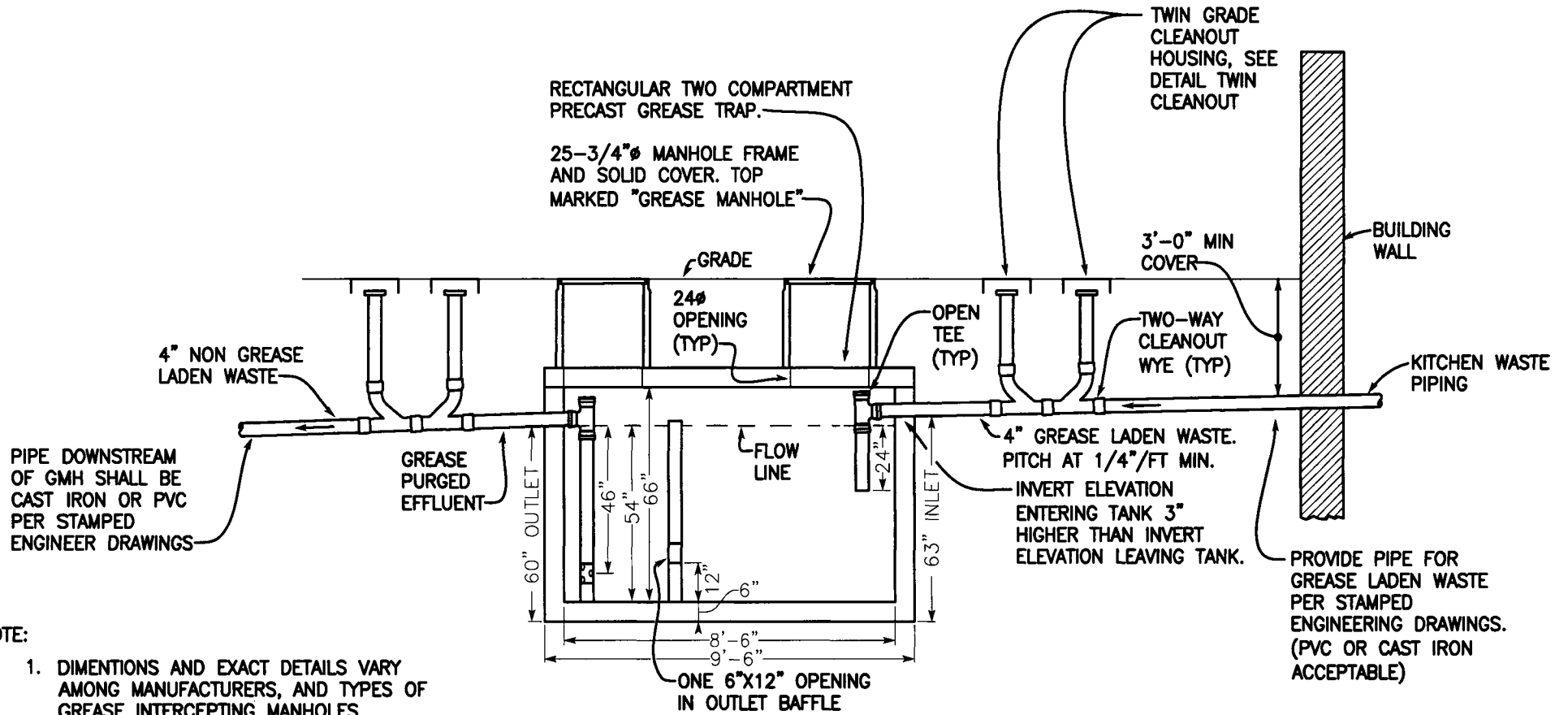
TEXAS TWIN  
CLEANOUT  
ACCEPTABLE



BACK TO BACK WYE  
CLEANOUT  
ACCEPTABLE

(INFORMATIONAL)		OCBPE DETAIL 2019-6	
TWIN CLEANOUT DETAILS			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.:	4

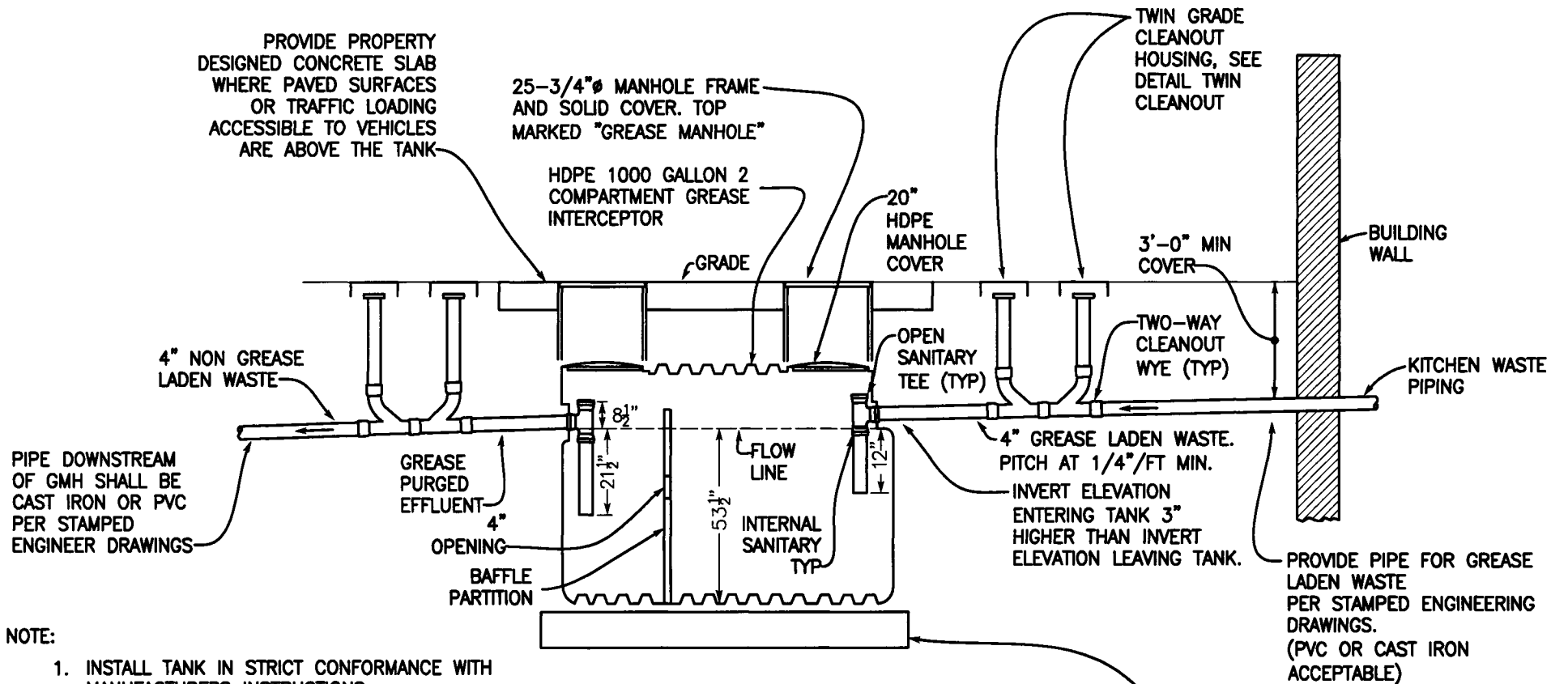
N:\420009\Oron County\_Standard\_Details\DWG\_Current\CONCRETE GREASE MANHOLE\_2019-7.dwg, 12/19/2016 7:15:53 AM, N96



- NOTE:
1. DIMENSIONS AND EXACT DETAILS VARY AMONG MANUFACTURERS, AND TYPES OF GREASE INTERCEPTING MANHOLES (LAKELANDS #GT1050 SHOWN). JEFFERSON, SUNNYCREST, P&S AND KISTNER, HAVE PROVIDED ACCEPTABLE UNITS IN PAST.
  2. POLY TANKS AND TANKS OF OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THAT THEY ARE OF APPROXIMATE CAPACITY AND FEATURES SHOWN. SEE DETAIL 2019-8

(INFORMATIONAL)		OCBPE DETAIL 2019-7	
1,050 GALLON CONCRETE GRAVITY GREASE INTERCEPTING MANHOLE			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.	6

N:\420008\Onon County\_Standard\_Details\DWG\_Current\HDPE GREASE TANK\_2019-8.dwg, 12/19/2018 7:16:23 AM, N96



- NOTE:
1. INSTALL TANK IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS
  2. HDPE = HIGH DENSITY POLYETHYLENE
  3. EXACT DETAILS VARY AMONG MANUFACTURERS, AND TYPES OF GREASE INTERCEPTING MANHOLES (TOWN & COUNTRY HGI - 1000 / HDPE SHOWN)
  4. POLY TANKS AND TANKS OF OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THAT THEY ARE OF APPROXIMATE CAPACITY AND SIMILAR FEATURES SHOWN

(INFORMATIONAL)		OCBPE DETAIL 2019-8	
1,000 GALLON HDPE GREASE INTERCEPTING MANHOLE			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.	1

\\1200001\Open County\_Standard\_Detail\DMG\_Current\2019\_08\_GREASE MANHOLE DATA FORM.dwg\_12/21/2018 8:52:28 AM N06

A SUBMITTAL SHALL BE PROVIDED TO PLUMBING CONTROL FOR THE PROPOSED GREASE INTERCEPTOR.

THE FOLLOWING INFORMATION SHALL BE PROVIDED:

a. TOTAL CALCULATED OCCUPANT LOAD \_\_\_\_\_ PERSONS (AT ONE SITTING OR ONE HOUR)

b. HOURS AND DAYS OF OPERATION \_\_\_\_\_

c. ESTIMATED TOTAL NUMBER OF MEALS PREPARED DAILY \_\_\_\_\_

d. MENU ITEMS/ TYPE OF CUISINE \_\_\_\_\_

e. SERVICE WEAR: PLATES \_\_\_\_\_, CUPS \_\_\_\_\_, BOWLS \_\_\_\_\_, GLASSWARE \_\_\_\_\_,  
FLATWARE: WASHABLE/REUSABLE \_\_\_\_\_

f. COMPLETE LIST OF KITCHEN EQUIPMENT RELATED TO PLUMBING WITH QUANTITIES PROVIDED:

HAND SINK \_\_\_\_\_, POT SINK \_\_\_\_\_, PREP SINK \_\_\_\_\_, DISHWASHER \_\_\_\_\_, WAREWASHER \_\_\_\_\_, PRE-RINSE SINK \_\_\_\_\_,

MOP SINK \_\_\_\_\_, DISPOSAL \_\_\_\_\_,

OTHER \_\_\_\_\_

g. PROPOSED LOCATION OF INTERCEPTOR DEVICE (OUTDOOR, INDOOR) \_\_\_\_\_

h. VERTICAL & HORIZONTAL DISTANCES/SEPARATION BETWEEN INTERCEPTION DEVICE AND EQUIPMENT SERVED. \_\_\_\_\_

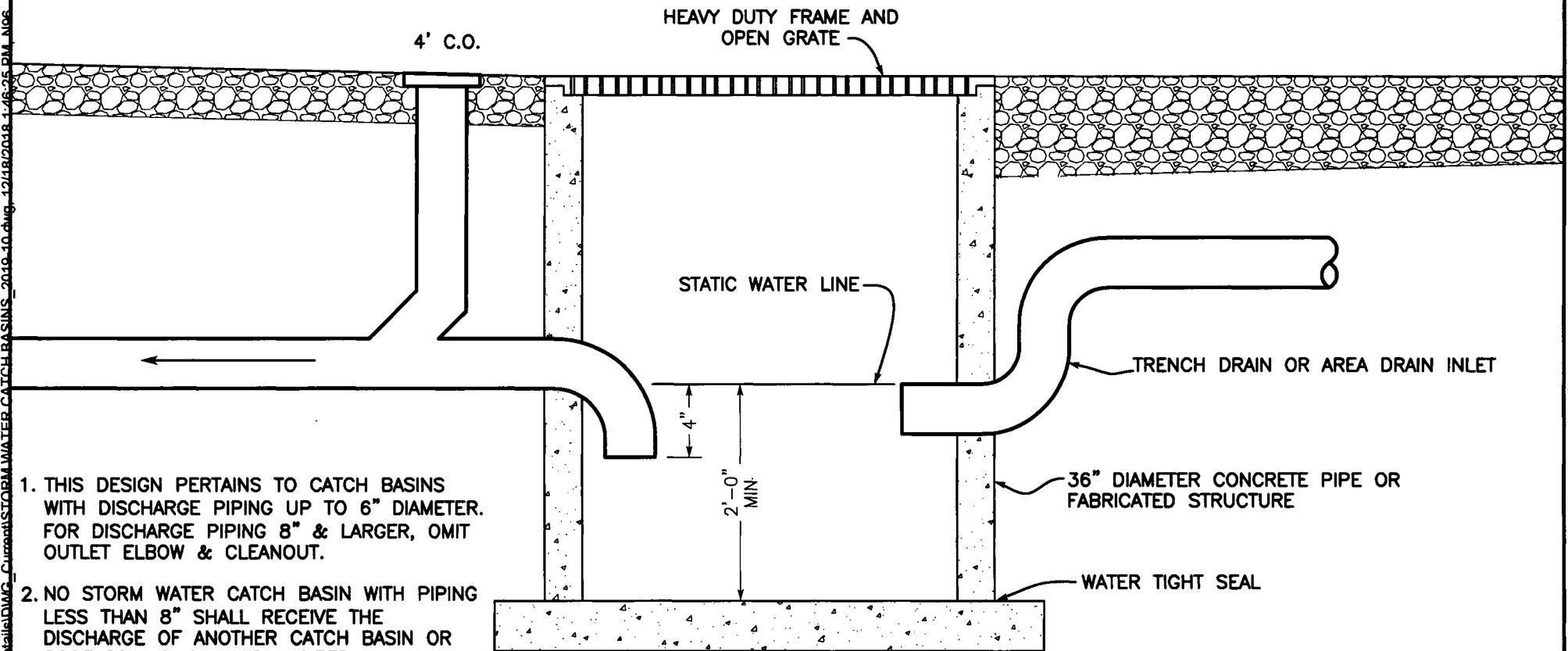
i. FLOOR PLAN OF KITCHEN & SERVING AREA. \_\_\_\_\_

j. ACCESSIBILITY OF INTERCEPTION DEVICE FOR CLEANING/PUMPING. \_\_\_\_\_

k. ACCESSIBLE TOILET ROOMS PROVIDED \_\_\_\_\_

<b>(INFORMATIONAL)</b>		<b>OCBPE 2019-9</b>
<b>GREASE MANHOLE DATA FORM</b>		
DATE: 01/07/19	SCALE: NOT TO SCALE	REV. NO. 0

N:\420000\01\0000\01\Standard\_Details\DWG\_Current\StormWater\CatchBasins\_2019-10.dwg - 12/18/2018 1:46:25 PM .NCS



1. THIS DESIGN PERTAINS TO CATCH BASINS WITH DISCHARGE PIPING UP TO 6" DIAMETER. FOR DISCHARGE PIPING 8" & LARGER, OMIT OUTLET ELBOW & CLEANOUT.
2. NO STORM WATER CATCH BASIN WITH PIPING LESS THAN 8" SHALL RECEIVE THE DISCHARGE OF ANOTHER CATCH BASIN OR ROOF DRAINS. PROPERLY SIZED STORM WATER CATCH BASINS WITH PIPING 8" OR LARGER MAY RECEIVE ADDITIONAL DISCHARGE PIPING FROM ANOTHER CATCH BASIN.

(INFORMATIONAL)

OCBPE 2019-10

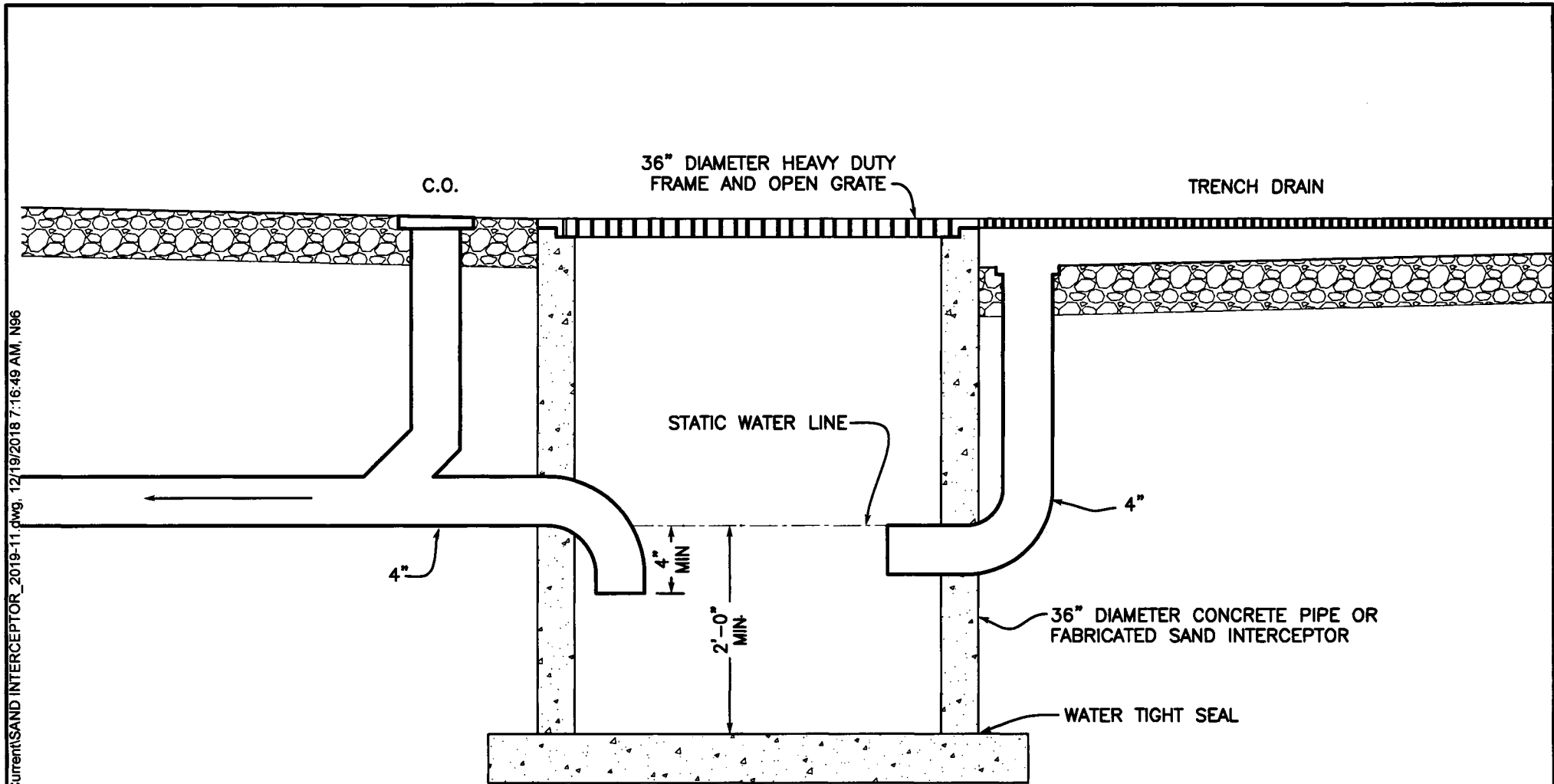
STORM WATER CATCH BASINS

DATE: 01/07/19

SCALE: NOT TO SCALE

REV. NO. 0

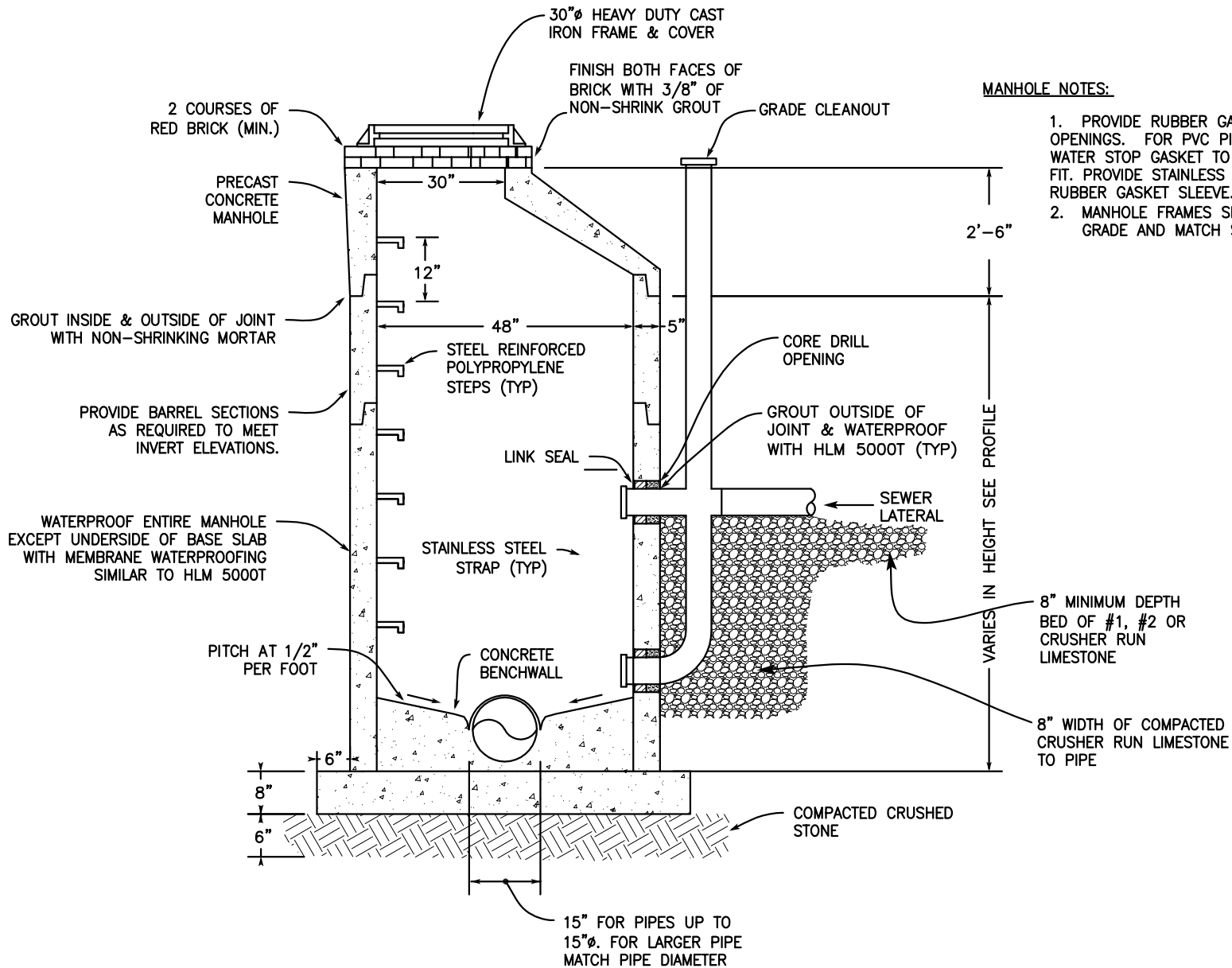
N:\420009\Oron County\_Standard\_Details\DWG\_Current\SAND INTERCEPTOR\_2019-11.dwg, 12/19/2018 7:16:49 AM, N96



1. THIS DETAIL PROVIDES MINIMUM REQUIREMENT FOR A GARAGE SAND INTERCEPTOR.
2. INDIVIDUAL FLOOR DRAINS MAY DISCHARGE INTO SAND INTERCEPTING DEVICES. DO NOT TRAP THESE INDIVIDUAL FLOOR DRAINS. USE A 90° OFFSET FITTING BELOW EACH FLOOR DRAIN AND DISCHARGE THEM BELOW THE STATIC WATER LINE OF THE INTERCEPTOR IN THE MANNER SHOWN ABOVE.
3. DOWNSTREAM LINE FROM INTERCEPTOR MAY REQUIRE A VENT TO PROTECT FROM SIPHONING INTERCEPTOR.
4. IF SAND INTERCEPTOR DISCHARGES TO OIL INTERCEPTOR OMIT THE OUTLET 90° ELBOW.

(INFORMATIONAL)		OCBPE DETAIL 2019-11	
GARAGE SAND INTERCEPTOR W/TRENCH DRAIN			
DATE	01/07/19	SCALE	NOT TO SCALE
		REV. NO.	0

N:\420009\Onon County\_Standard\_Details\DWG\_Current\2019-12\_OUTSIDE DROP CONNECTION.dwg, 1/14/2019 11:41:42 AM, N81



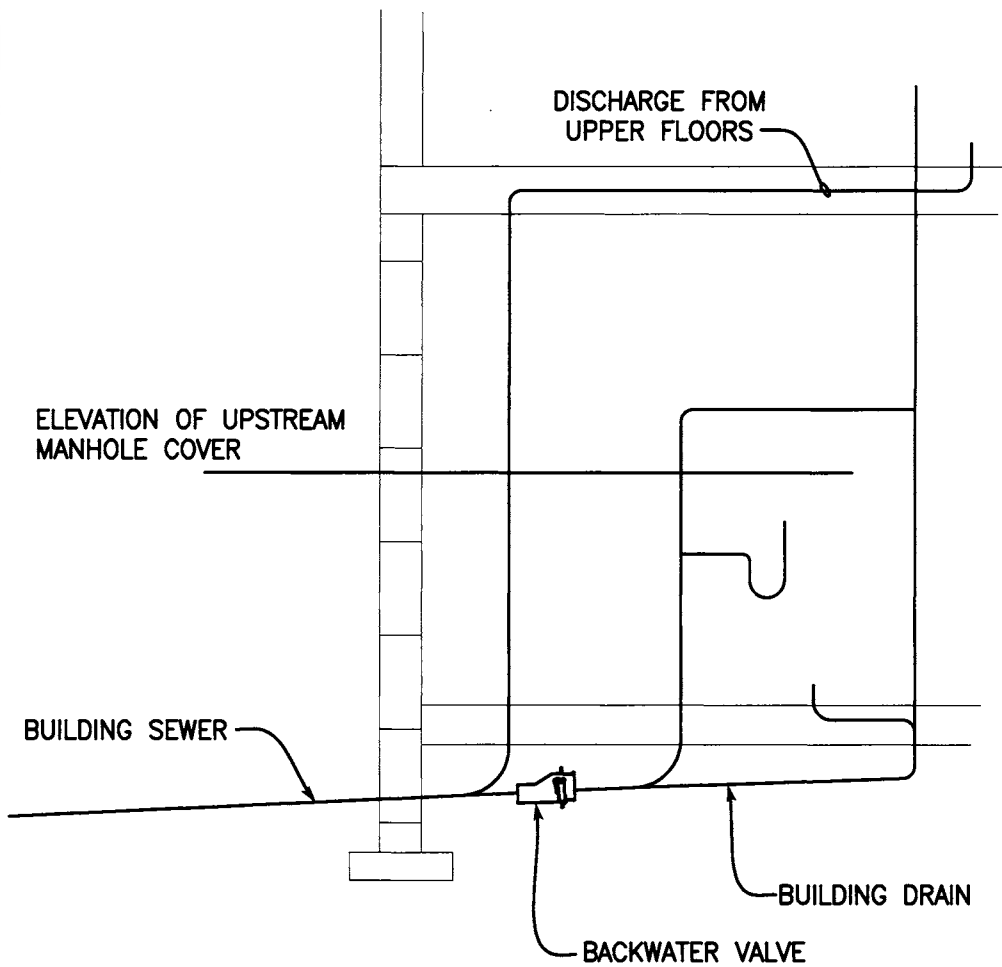
**MANHOLE NOTES:**

1. PROVIDE RUBBER GASKET SLEEVE AT ALL PIPE OPENINGS. FOR PVC PIPE, ALSO USE AN ELASTOMERIC WATER STOP GASKET TO ENSURE WATER TIGHT SLEEVE FIT. PROVIDE STAINLESS STEEL PIPE CLAMP AROUND RUBBER GASKET SLEEVE.
2. MANHOLE FRAMES SHALL BE INSTALLED 3/8" BELOW GRADE AND MATCH SLOPE OF SURROUNDING GRADE.

<b>(MANDATORY)</b>		<b>OCBPE DETAIL 2019-12</b>	
<b>SANITARY MANHOLE WITH OUTSIDE DROP CONNECTION</b>			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.:	0







1. SEWAGE BACKFLOW

WHERE THE FLOOD LEVEL RIM OF BUILDING PLUMBING FIXTURES ARE BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN A PUBLIC SEWER, SUCH FIXTURE SHALL BE PROTECTED BY BACKWATER VALVE INSTALLED IN THE BUILDING DRAIN, OR IN THE HORIZONTAL BRANCH SERVING SUCH FIXTURES. PLUMBING FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT DISCHARGE THROUGH A BACKWATER VALVE.

2. SEAL

BACKWATER VALVES SHALL BE SO CONSTRUCTED AS TO PROVIDE A MECHANICAL SEAL AGAINST BACKFLOW

3. DIAMETER

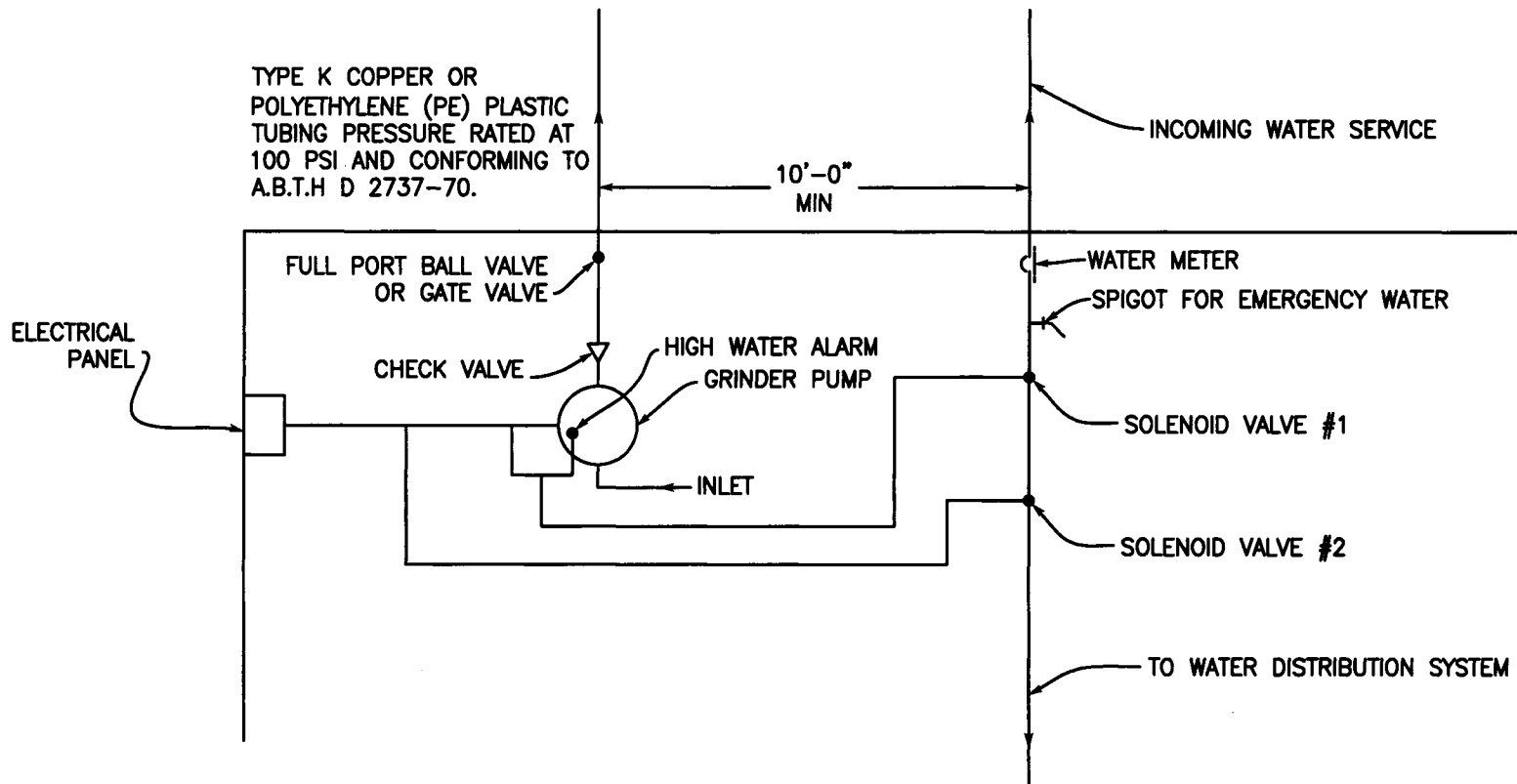
BACKWATER VALVES, WHEN FULLY OPENED, SHALL HAVE A CAPACITY NOT LESS THAN THAT OF THE PIPES IN WHICH THEY ARE INSTALLED.

4. LOCATION

BACKWATER VALVES SHALL BE INSTALLED SO THAT ACCESS IS PROVIDED TO WORKING PARTS FOR SERVICE REPAIR.

(MANDATORY)		OCBPE DETAIL 2019-14	
BUILDING DRAIN, BACKWATER VALVE			
DATE:	01/07/19	SCALE	NOT TO SCALE
		REV. NO.	0

N:\420009\OnonCounty Standard Details\DWG Current\IDUAL SOLENOID\_2019-15.dwg, 12/18/2018 1:50:39 PM, N96



ONE & TWO FAMILY RESIDENCES

SEWAGE EJECTOR INTERLOCK TO DOMESTIC WATER SUPPLY

1. PLUMBING AND ELECTRICAL REQUIREMENTS FOR THE INSTALLATION OF SEWAGE EJECTORS THAT DISCHARGE TO A COMMON SANITARY FORCE MAIN.
2. SOLENOID VALVE #1 SHALL BE NORMALLY OPEN AND WIRED TO THE HIGH WATER ALARM CIRCUIT. SAID VALVE CLOSES WHEN ACTIVATED BY HIGH WATER ALARM.
3. SOLENOID VALVE #2 SHALL BE NORMALLY CLOSED AND WIRED TO THE MAIN PUMP SERVICE. SAID VALVE CLOSES WHEN MAIN POWER IS INTERRUPTED.

<b>(MANDATORY)</b>		<b>OCBPE DETAIL 2019-15</b>	
<b>SEWAGE EJECTOR INTERLOCK TO DOMESTIC WATER SUPPLY</b>			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.	0

**ISLAND SINK**  
(APPROVED WASTE & VENT PIPING ARRANGEMENT)

STACK

TIGHT TO UNDERSIDE OF  
COUNTER TOP

1-1/2" VENT

1-1/2" WASTE

CLEAN-OUT

(INFORMATIONAL)

OCBPE DETAIL 2019-16

ISLAND VENT WASTE & PIPING

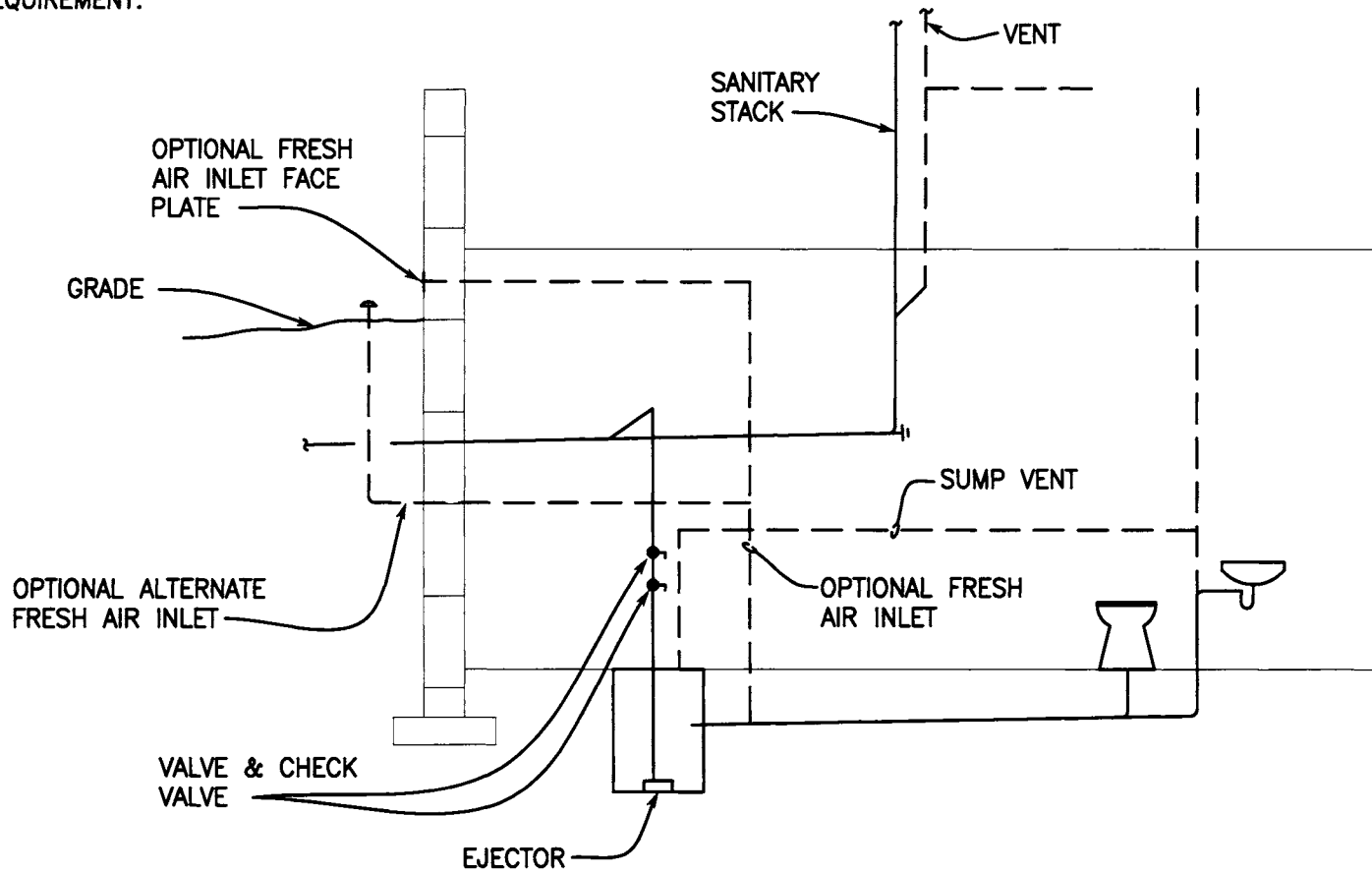
DATE: 01/07/19

SCALE: NOT TO SCALE

REV. NO. 0

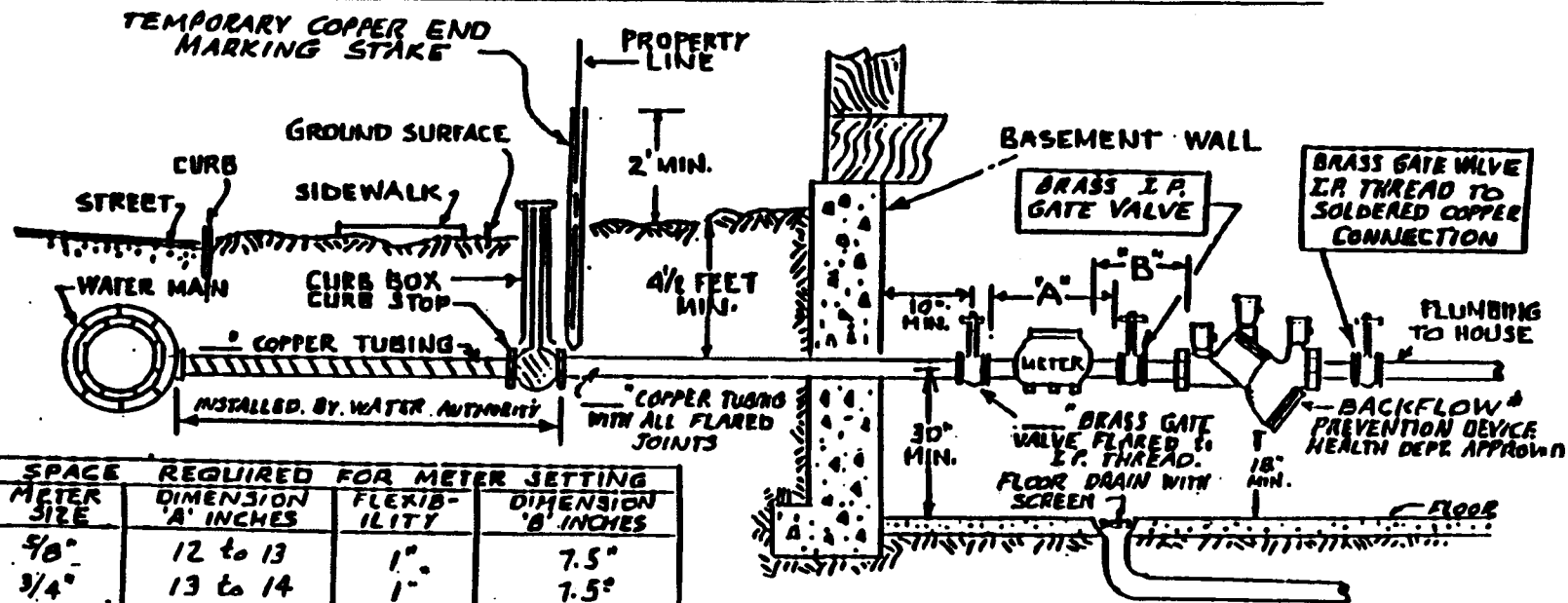
### DOMESTIC SEWAGE EJECTOR

NOTE: FORMER CODES REQUIRED SEPARATE VENTING. SEPARATE VENTS ARE NO LONGER A CODE REQUIREMENT.



(INFORMATIONAL)		OCBPE DETAIL 2019-17	
DOMESTIC SEWAGE EJECTOR DETAIL			
DATE:	01/07/19	SCALE:	NOT TO SCALE
		REV. NO.:	0

## TYPICAL 3/4" THRU 2" WATER SERVICE WITH METER & BACK FLOW PREVENTION DEVICE INSTALLATION IN A BASEMENT



APPENDIX V-C  
(902.2)

SPACE REQUIRED FOR METER SETTING			
METER SIZE	DIMENSION 'A' INCHES	FLEXIBILITY	DIMENSION 'B' INCHES
5/8"	12 to 13	1"	7.5"
3/4"	13 to 14	1"	7.5"
1"	15 to 16	1"	10.0"
1 1/2"	15	1"	15.0"
2"	19 1/2	1"	20.0"

**\*NOTE: DEVICE TO BE INSTALLED ABOVE HIGHEST POSSIBLE FLOODING**

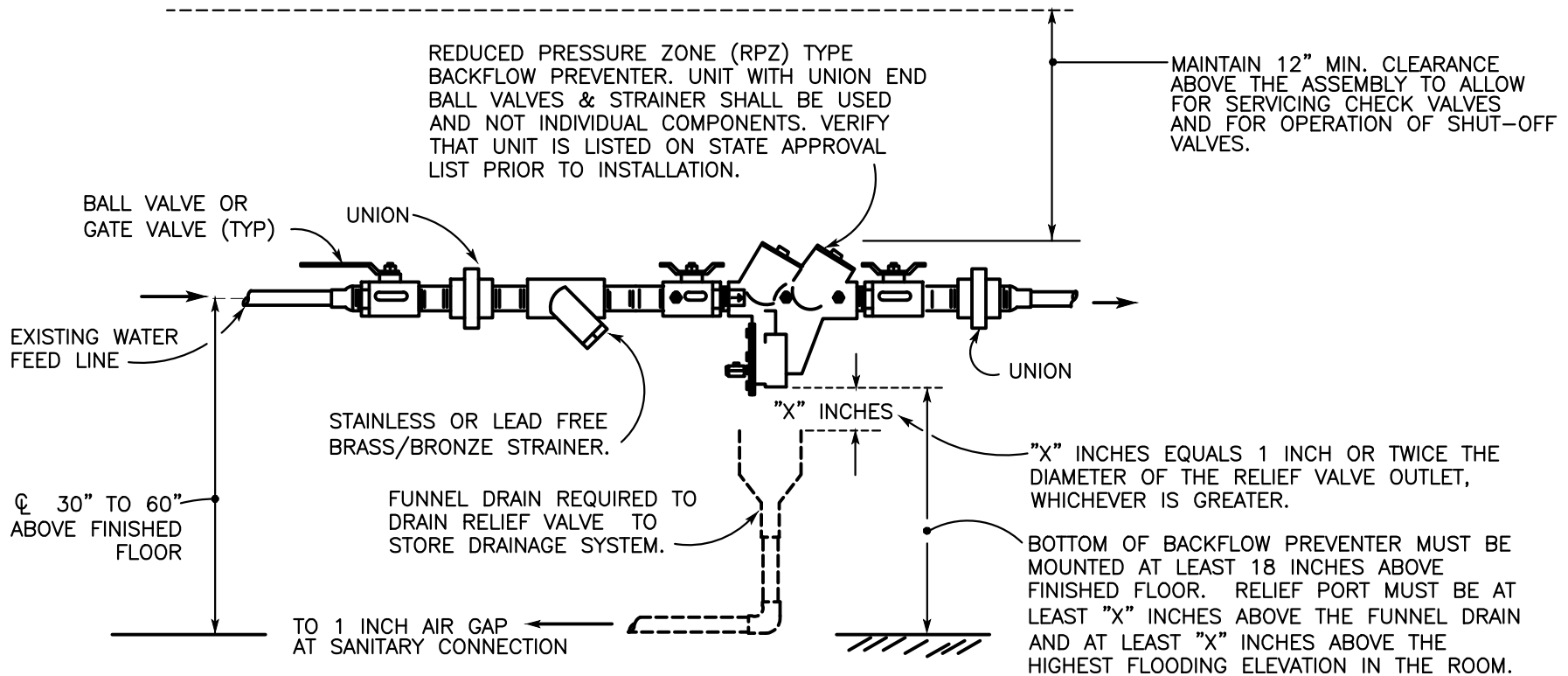
- NOTES:**
1. The improper installation of these devices can prevent the desired protection. Most critical is the need to provide a gravity drain large enough to receive the maximum potential discharge of the relief valve. The drain cannot be subject to flooding and must be screened and the discharge treated as unpolluted water.
  2. Considerations should be given to potential for freezing and access for maintenance and testing.
  3. When a continuous water supply is required a parallel installation would be required for removing one device at a time from service for testing and maintenance.
  4. In no case may the installation of a backflow prevention device include unprotected bypass piping. Closed gate valves on the bypass do not constitute protection.

This sketch is provided for guidance purposes only. Each installation is subject to approval by Plumbing Control.

(INFORMATIONAL)		OCBPE DETAIL 2019-18	
TYPICAL WATER SERVICE			
DATE: 01/07/19	SCALE: NOT TO SCALE	REV. NO.	0

## BACKFLOW PREVENTER NOTES

1. 30" OF CLEAR SPACE SHALL BE MAINTAINED BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST OBSTRUCTION.
2. AT LEAST 8" CLEARANCE SHALL BE PROVIDED ON THE BACK SIDE OF THE DEVICE.
3. ASSEMBLY SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT.
4. THOROUGHLY FLUSH WATER LINES PRIOR TO INSTALLING ASSEMBLY.
5. ALL PIPING BETWEEN THE WATER METER AND THE RPZ SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER-DO NOT TAP".
6. THE RPZ IS TO BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER OF BACKFLOW PREVENTERS.
7. THE INITIAL TEST RESULTS AND CERTIFICATION ARE THEN TO BE SUBMITTED TO THE WATER SUPPLIER AND THE APPROVING AGENT FOR ISSUANCE OF A COMPLETED WORKS APPROVAL.
8. DOH-FORM 1013 IS USED FOR THE CERTIFIED TEST RESULTS.



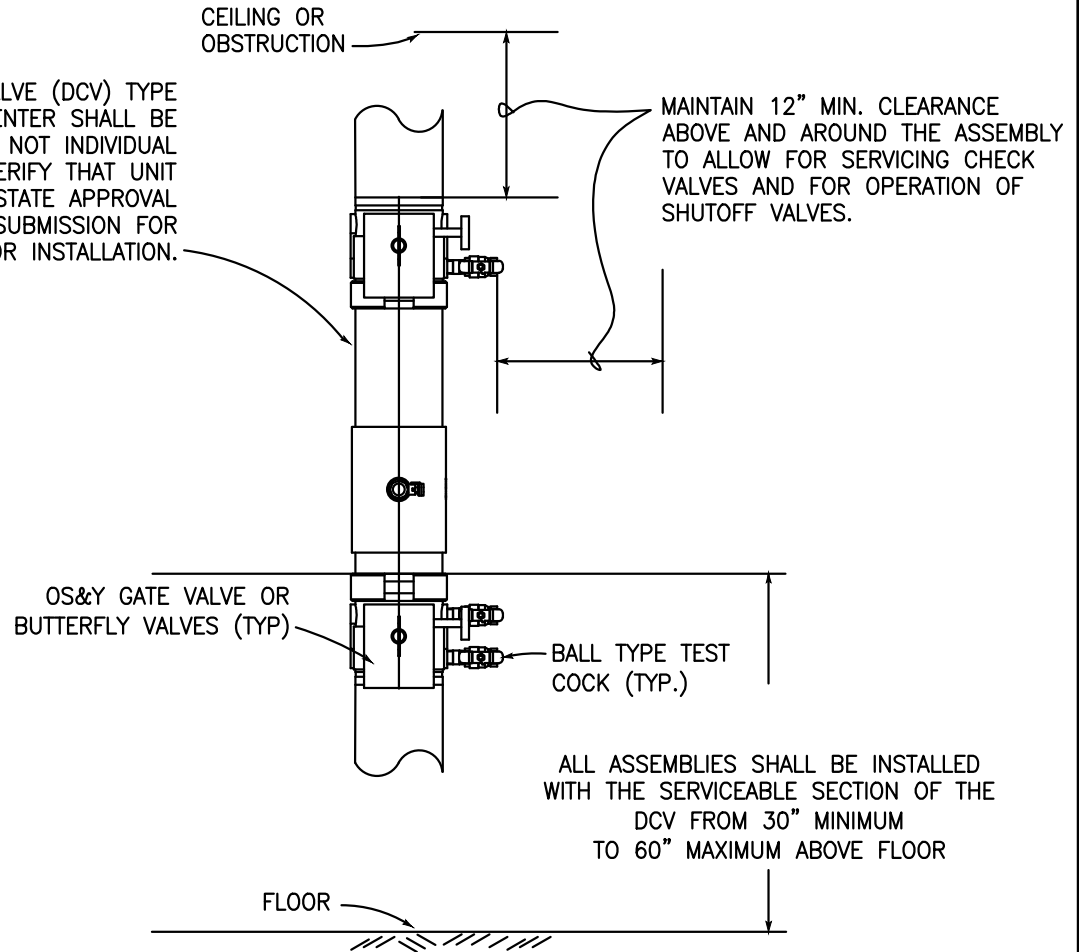
<b>(MANDATORY)</b>		<b>OCBPE DETAIL 2019-19</b>
<b>RPZ BACKFLOW PREVENTER INSTALLATION</b>		
DATE: 01/07/19	SCALE: NOT TO SCALE	REV. NO. 0

N:\420009\Onon County\_Standard\_Details\DWG\_Current\2019-20\_VERTICAL DCV BACKFLOW.dwg, 1/14/2019 1:19:16 AM, N96

## **BACKFLOW PREVENTER NOTES**

1. A MINIMUM OF 30" OF CLEAR SPACE SHALL BE MAINTAINED BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST WALL OR OBSTRUCTION.
2. AT LEAST 8" CLEARANCE SHALL BE PROVIDED ON THE BACK SIDE OF THE DEVICE TO THE NEAREST WALL OR OBSTRUCTION.
3. ASSEMBLY SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT.
4. THOROUGHLY FLUSH WATER LINES PRIOR TO INSTALLING ASSEMBLY.
5. ALL PIPING BETWEEN THE WATER METER OR SERVICE ENTRANCE AND THE DCV SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER—DO NOT TAP" AT 5'-0" INTERVALS.
6. THE DCV SHALL BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER OF BACKFLOW PREVENTERS.
7. THE INITIAL TEST RESULTS AND CERTIFICATION SHALL BE SUBMITTED TO THE WATER SUPPLIER AND THE APPROVING AGENCY FOR ISSUANCE OF A COMPLETED WORKS APPROVAL.
8. DOH—FORM 1013 SHALL BE USED FOR THE CERTIFIED TEST RESULTS.
9. THE PLUMBING OR FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR THE INSTALLATION OF THE NEW DCV BACKFLOW PREVENTER FROM THE PROPER AUTHORITIES HAVING JURISDICTION.

DOUBLE CHECK VALVE (DCV) TYPE BACKFLOW PREVENTER SHALL BE USED AND NOT INDIVIDUAL COMPONENTS. VERIFY THAT UNIT IS LISTED ON STATE APPROVAL LIST PRIOR TO SUBMISSION FOR PERMIT OR INSTALLATION.



(INFORMATIONAL)

OCBPE DETAIL 2019-20

VERTICAL DCV BACKFLOW PREVENTER

DATE: 01/07/19

SCALE NOT TO SCALE

REV. NO. 0

## BACKFLOW PREVENTER NOTES

1. A MINIMUM OF 30" OF CLEAR SPACE SHALL BE MAINTAINED BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST WALL OR OBSTRUCTION.
2. AT LEAST 8" CLEARANCE SHALL BE PROVIDED ON THE BACK SIDE OF THE DEVICE TO THE NEAREST WALL OR OBSTRUCTION.
3. ASSEMBLY SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT.
4. THOROUGHLY FLUSH WATER LINES PRIOR TO INSTALLING ASSEMBLY.
5. ALL PIPING BETWEEN THE WATER METER OR SERVICE ENTRANCE AND THE DCV SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER-DO NOT TAP" AT 5'-0" INTERVALS.
6. THE DCV SHALL BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER OF BACKFLOW PREVENTERS.
7. THE INITIAL TEST RESULTS AND CERTIFICATION SHALL BE SUBMITTED TO THE WATER SUPPLIER AND THE APPROVING AGENT FOR ISSUANCE OF A COMPLETED WORKS APPROVAL.
8. DOH-FORM 1013 SHALL BE USED FOR THE CERTIFIED TEST RESULTS.
9. THE PLUMBING OR FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR THE INSTALLATION OF THE NEW DCV BACKFLOW PREVENTER FROM THE PROPER AUTHORITIES HAVING JURISDICTION.

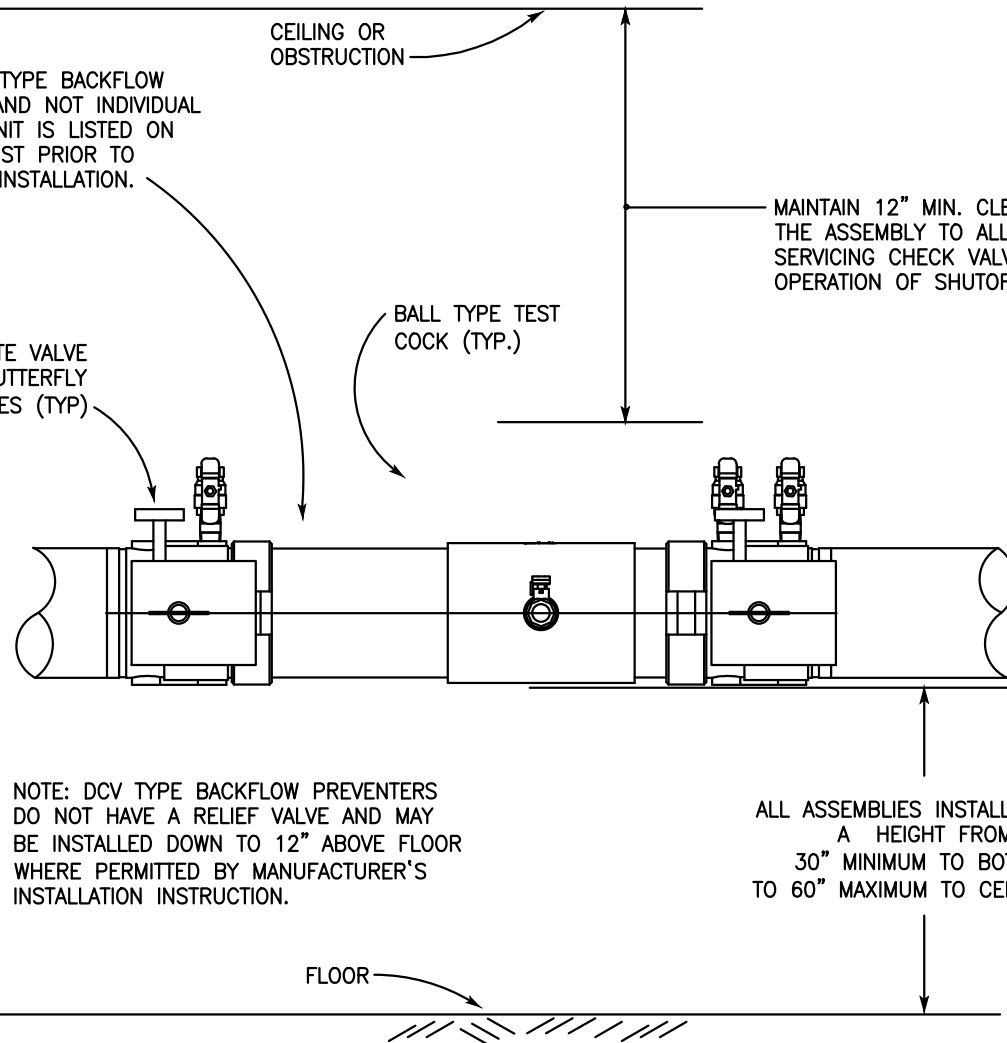
DOUBLE CHECK VALVE (DCV) TYPE BACKFLOW PREVENTER SHALL BE USED AND NOT INDIVIDUAL COMPONENTS. VERIFY THAT UNIT IS LISTED ON STATE APPROVAL LIST PRIOR TO SUBMISSION FOR PERMIT OR INSTALLATION.

OS&Y GATE VALVE OR BUTTERFLY VALVES (TYP.)

BALL TYPE TEST COCK (TYP.)

CEILING OR OBSTRUCTION

MAINTAIN 12" MIN. CLEARANCE ABOVE THE ASSEMBLY TO ALLOW FOR SERVICING CHECK VALVES AND FOR OPERATION OF SHUTOFF VALVES.



NOTE: DCV TYPE BACKFLOW PREVENTERS DO NOT HAVE A RELIEF VALVE AND MAY BE INSTALLED DOWN TO 12" ABOVE FLOOR WHERE PERMITTED BY MANUFACTURER'S INSTALLATION INSTRUCTION.

ALL ASSEMBLIES INSTALLED WITH A HEIGHT FROM 30" MINIMUM TO BOTTOM TO 60" MAXIMUM TO CENTERLINE

(INFORMATIONAL)		OCBPE DETAIL 2019-21	
HORIZONTAL DCV BACKFLOW PREVENTER			
DATE:	01/07/19	SCALE:	NOT TO SCALE
REV. NO.			0

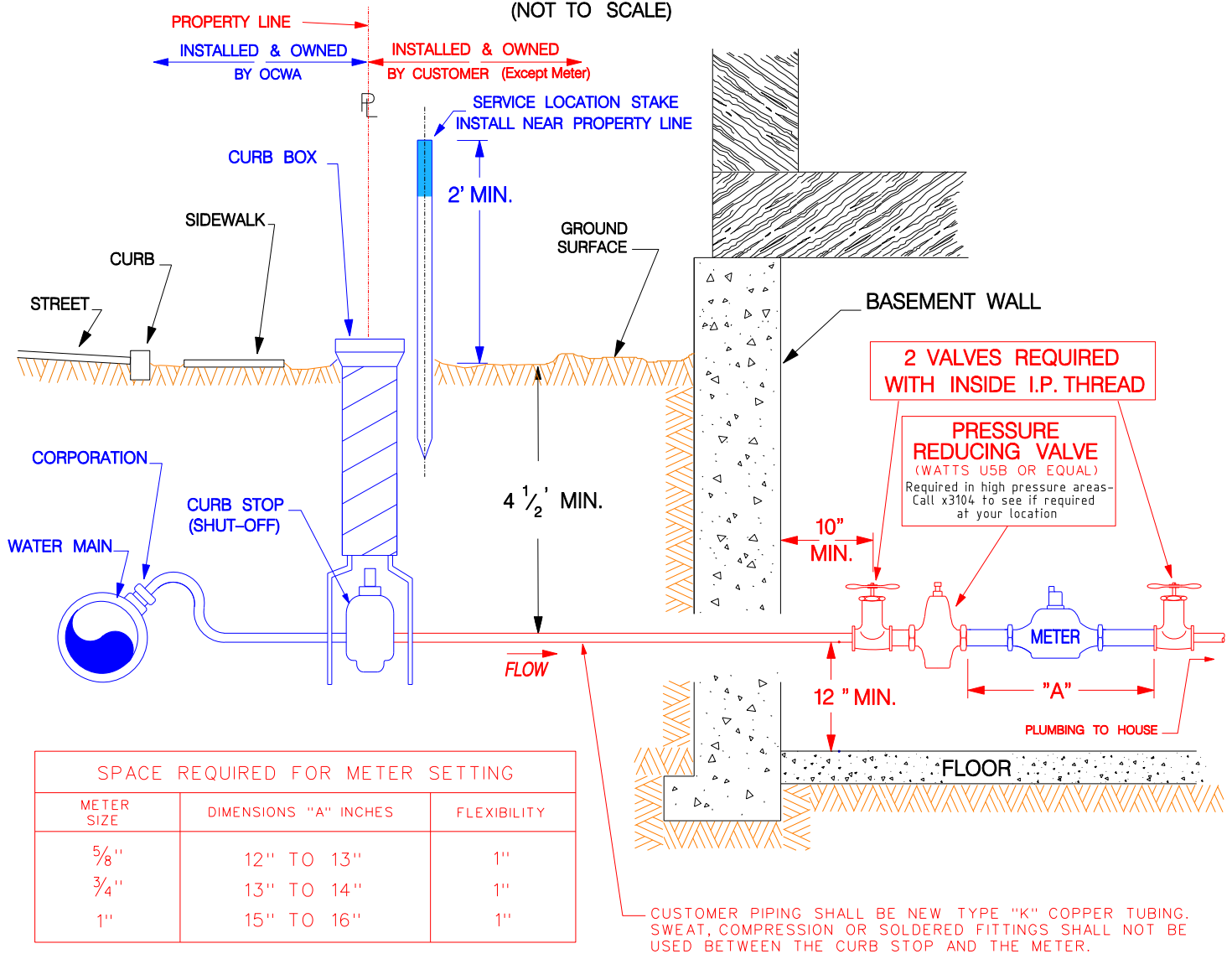


## TYPICAL WATER SERVICE & METER INSTALLATION WITH PRESSURE REDUCING VALVE\*

\*REQUIRED IN HIGH PRESSURE LOCATIONS -

HIGH PRESSURE SHOULD BE NOTED ON YOUR SERVICE APPLICATION LETTER. IF UNCERTAIN, CALL x3104.

(NOT TO SCALE)



SPACE REQUIRED FOR METER SETTING

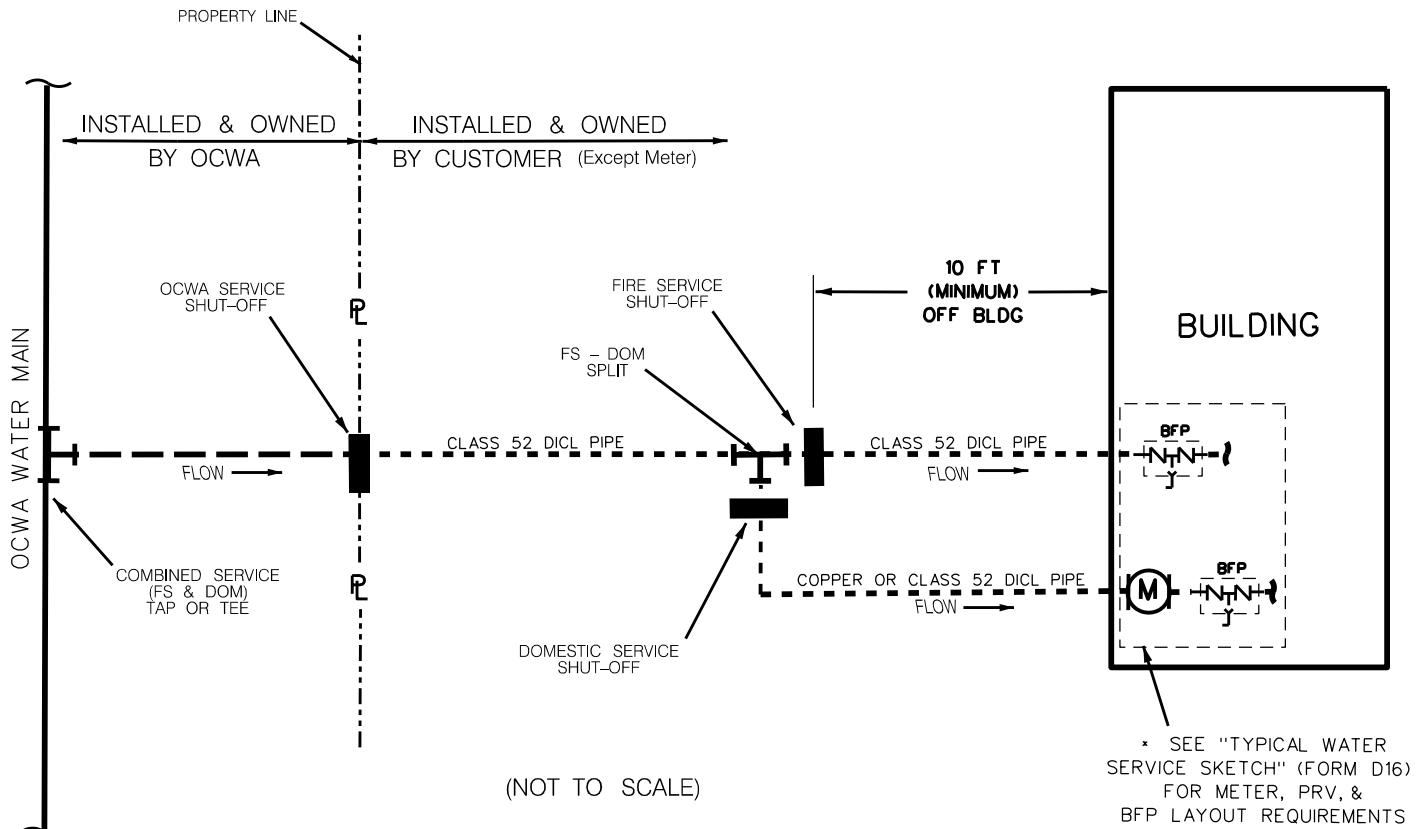
METER SIZE	DIMENSIONS "A" INCHES	FLEXIBILITY
5/8"	12" TO 13"	1"
3/4"	13" TO 14"	1"
1"	15" TO 16"	1"

### NOTES

1. Water Authority will not connect to customers service, unless customer has a long stake extending from the exact end of pipe to approximately two (2) feet above surface of the ground.
2. Houses having no cellars will require an inspection and approval of customer's service pipe before connection is made. OCWA may require a meter pit.
3. All materials will be furnished and installed by the Water Authority from the water main to the property line.
4. Property owner furnishes all materials and installs all piping to and into the building except the meter which is furnished and installed by the Water Authority. Customer's piping shall have a minimum cover of four and one half (4 1/2) feet.
5. Meter must be located less than three (3) feet from where the service enters the basement between two (2) shut-off valves and be conveniently accessible for reading and changing.
6. Piping is to be installed at the above listed clearance and have sufficient flexibility to set and/or remove meter.
7. The inlet valve next to the meter shall be a flared copper to iron pipe thread valve or a flared copper to iron pipe thread angle valve.

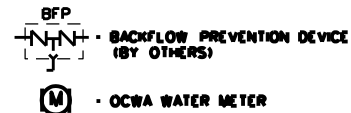
# TYPICAL INSTALLATION COMBINED WATER SERVICE

FIRE SERVICE (4" or Larger) &  
DOMESTIC SERVICE (4" or Smaller)



## NOTES

1. COMBINED SERVICES ARE ONLY ALLOWED IF THE VOLUME OF WATER (BETWEEN THE WATER MAIN AND THE BUILDING) WILL BE TURNED OVER ONCE PER DAY (MINIMUM).
2. DOMESTIC WATER SERVICE SHALL BE TAPPED OFF PRIVATE SIDE OF THE FIRE SERVICE. THE SPLIT SHALL BE MADE OUTSIDE THE BUILDING, IN A SAFE AND ACCESSIBLE AREA, AND SHUT-OFF VALVES LOCATED A MINIMUM OF 10 FT OFF THE BUILDING.
3. CUSTOMER SIDE OF SERVICES SHALL BE DESIGNED SUCH THAT OWNER CAN FLUSH SERVICE LINES AT 2.5 FEET PER SECOND (MINIMUM).
4. IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE PROOF DESIGN OF THE PRIVATE PORTION OF THE SERVICES MEETS ALL OCWA REQUIREMENTS.



SIZE OF DOMESTIC SERVICE	BOX REQUIRED
3/4" - 1"	2 1/2" CURB BOX
GREATER THAN 1"	3 1/4" VALVE BOX



ONONDAGA COUNTY WATER AUTHORITY  
NORTHERN CONCOURSE-P.O. BOX 4949  
SYRACUSE, N.Y. 13221-4949

NO SCALE

OCWA ENGINEERING DEPT.

APPROVED: P. Sherlock, P.E.

DATE: 1/08/18

REVISED: -

COMBINED WATER SERVICE  
INSTALLATION  
FIRE AND DOMESTIC SERVICE

DRWG

D21

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