

**INDEPENDENCE-CROSS CREEK
JOINT SEWER AUTHORITY
Washington County, Pennsylvania**

**RULES AND REGULATIONS
GOVERNING
SEWAGE SERVICE**

May 16, 2011

(Appendix A latest revisions thru July 25, 2016)



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INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY
Washington County, Pennsylvania

RULES AND REGULATIONS GOVERNING SEWAGE SERVICE

TABLE OF CONTENTS

	<u>PAGE</u>
SECTION 1. GENERAL	1
SECTION 2. DEFINITIONS	1
SECTION 3. CONDITIONS OF SERVICE	11
3.1 GENERAL	11
SECTION 4. APPLICATIONS AND CONTRACTS FOR CONNECTIONS AND SEWAGE SERVICE	12
4.1 GENERAL	12
4.2 APPLICATION FOR SEWER CONNECTIONS AND SEWAGE SERVICE - MUNICIPAL SUBDIVISION	12
4.3 APPLICATION FOR SEWER SERVICE CONNECTION - INDIVIDUAL PREMISES	12
4.4 APPLICATION FOR SEWAGE SERVICE - INDIVIDUAL PREMISES	13
4.5 APPROVAL OF APPLICATIONS	13
4.6 APPLICATION, A CONTRACT	13
4.7 CONTRACTS WITH DELINQUENTS	13
4.8 TERM OF CONTRACT	13
4.9 SPECIAL CONTRACTS	14
4.10 GOVERNMENTAL REGULATIONS A PART OF CONTRACT	14
4.11 INDIVIDUAL LIABILITY FOR JOINT SERVICE	14
4.12 NEW APPLICATION UPON CHANGE IN OWNERSHIP OR TENANCY OR CONDITIONS OF USE	14
4.13 RENEWAL OF SERVICE	15
4.14 CONDITION OF PLUMBING SYSTEM	15
SECTION 5. DEPOSITS	15
5.1 GENERAL	15
SECTION 6. BUILDING SEWERS AND CONNECTIONS	16
6.1 GENERAL	16
6.2 PLUMBING BUILDING DRAIN AND DRAINAGE SYSTEM	17
6.3 BUILDING SEWER AND CONNECTION - MATERIALS	17
6.4 BUILDING SEWER AND CONNECTION - DESIGN AND INSTALLATION ..	17
6.5 SEWER BUILDING LINE AND CONNECTION - MAINTENANCE	19
SECTION 7. USE OF SEWER	19
7.1 REQUIRED USE	19
7.2 PROHIBITED USES	21
SECTION 8. METERS - SEWAGE SERVICE	23
8.1 GENERAL	23
8.2 SIZE OF METER	23
8.3 LOCATION	24
8.4 INSTALLATION OF METER	24
8.5 MAINTENANCE, CARE AND RESPONSIBILITY FOR DAMAGE	24
8.6 METER TESTS	25
8.7 CHANGE IN LOCATION OF METERS	25
8.8 SEALS	25

Table of Contents - continued

	<u>Page</u>
8.9 LEAKS	25
8.10 READING AND REGISTRATION OF METERS	26
8.11 NOTIFICATION RELATIVE TO CONDITION OF METER	26
8.12 MINIMUM CHARGE	26
SECTION 9. SERVICE	26
9.1 DISCONTINUANCE OF SERVICE	26
9.2 RENEWAL OF SERVICE AFTER DISCONTINUANCE	28
9.3 TURN-OFF WITHOUT AUTHORIZATION	28
SECTION 10. BILLS AND PAYMENT	28
10.1 BILLS RENDERED AND DUE	28
10.2 LIEN AGAINST PROPERTY	29
10.3 MINIMUM CHARGE - SEWAGE SERVICE	29
10.4 SEWAGE AND OTHER CHARGES - A LIEN AGAINST PROPERTY	30
10.5 TERMINATION OF WATER SERVICE FOR NONPAYMENT OF SEWAGE SERVICE BILL	30
10.6 CHARGES FOR SEWAGE SERVICE	30
SECTION 11. GENERAL	32
11.1 INSPECTION	32
11.2 TURN-ON CHARGE	32
11.3 INTERFERENCE WITH AUTHORITY'S PROPERTY	33
11.4 ONLY RULES BINDING	33
11.5 SERVICE OF NOTICES	33
11.6 COMPLAINTS	33
11.7 SERVICE NOT GUARANTEED	34
11.8 RESTRICTION OF SUPPLY	34
11.9 PENALTIES	34
SECTION 12. APPROVAL OF SANITARY SEWERAGE SYSTEMS	34
12.1 GENERAL	34
SECTION 13. LAWS AND REGULATIONS RELATIVE TO SEWERAGE	35
13.1 GENERAL	35
13.2 STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION	35
13.3 STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION	35
13.4 STATE DEPARTMENT OF TRANSPORTATION	35
13.5 U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)	36
13.6 AUTHORITY AND OTHERS	36
SECTION 14. APPLICATION FOR APPROVAL OF SANITARY SEWERAGE SYSTEMS AND GENERAL REQUIREMENTS RELATIVE THERETO	36
SECTION 15. PROCEDURE FOR SUBMITTAL OF REPORTS AND PLANS	36
15.1 GENERAL	36
15.2 PRELIMINARY PLANS	36
15.3 FINAL PLANS AND REPORTS	37
15.4 PLAN PREPARATION	39
15.5 AS-CONSTRUCTED PLANS	39
15.6 MATERIAL SPECIFICATIONS	39
SECTION 16. RESPONSIBILITY FOR COST	40

Table of Contents - continued

	<u>Page</u>
SECTION 17. AGREEMENT	41
17.1 AGREEMENT	41
SECTION 18. CONSTRUCTION SPECIFICATIONS	42
18.1 GENERAL	42
18.2 INSPECTION OF CONSTRUCTION	42
SECTION 19. BONDS AND INSURANCE	42
19.1 GENERAL	42

APPENDIX

APPENDIX A - SEWER RATE SCHEDULE (December 20, 2010)	
NOTICE TO CONNECT TO SANITARY SEWER SYSTEM LETTER (February 1, 2011)	
APPLICATION AND AGREEMENT FOR SANITARY SEWER SERVICE (Revised July 25, 2016)	
BUILDING SEWER WYE TYPE CONNECTION FORM (Revised July 2016)	
SEWER CONNECTION PROCEDURES AND OTHER IMPORTANT INFORMATION (Revised July 2013)	
RULES AND REGULATIONS FOR THE INSTALLATION OF SEWER SERVICE LATERALS (Revised July 2013)	
DRAWING NUMBER 2-579-707-1 - TYPICAL SEWER SERVICE LATERAL INSTALLATION FOR GRAVITY SEWER CONNECTION (Revised May 28, 2014)	
DRAWING NUMBER 2-579-737-1 - TYPICAL SEWER SERVICE LINE CONNECTION TO GRINDER PUMP STATION (Revised November 11, 2014)	
DRAWING NUMBER 2-579-740-1 - TYPICAL SEWER SERVICE LINE CONNECTION GRINDER PUMP TO PRESSURE SEWER MAIN (Revised July 21, 2016)	
DRAWING NUMBER 2-579-740-2 - TYPICAL SEWER SERVICE LINE CONNECTION GRINDER PUMP TO PRESSURE SEWER MAIN PIPE ANCHOR DETAIL (July 2013)	
DRAWING NUMBER 2-579-740-3 - TYPICAL SEWER SERVICE LINE CONNECTION GRINDER PUMP TO PRESSURE SEWER MAIN TRACER WIRE, TRACER WIRE ACCESS BOX AND TRACER WIRE GROUNDING DETAIL (July 2013)	

INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY
Washington County, Pennsylvania

RULES AND REGULATIONS GOVERNING SEWAGE SERVICE

SECTION 1. GENERAL

The Members of the Board of the Independence-Cross Creek Joint Sewer Authority, County of Washington, Commonwealth of Pennsylvania, have duly adopted the following rules and regulations governing the furnishing of sewage service.

The Independence-Cross Creek Joint Sewer Authority, a body corporate and politic, existing under the laws of the Commonwealth of Pennsylvania, pursuant to the Municipality Authorities Act of 1945, approved May 2, 1945, P.L. 382, as amended, was created by the Supervisors of Independence Township and Cross Creek Township on January 7, 2002, for the purpose of acquiring, constructing and operating a sanitary sewerage system in parts of the Townships.

SECTION 2. DEFINITIONS

- 2.1 **AUTHORITY** - The word "Authority", whenever the same appears herein, means the "Independence-Cross Creek Joint Sewer Authority", a body corporate and politic, organized and existing under the laws of the Commonwealth of Pennsylvania with the power to regulate and control the financing, design, construction and operation of sanitary sewerage systems, and to establish all schedules of fees, rates and charges.
- 2.2 **BIOCHEMICAL OXYGEN DEMAND** - The term "B.O.D." (denoting biochemical oxygen demand), as used herein, shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at 20° centigrade, expressed in parts per million by weight. The B.O.D. shall be determined by one of the acceptable methods described in the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association.
- 2.3 **BUILDING DRAIN** - See SEWER - TYPES
- 2.4 **BUILDING - OCCUPIED** - The term "Occupied Building" shall mean any structure erected and intended for continuous or periodic habitation, occupancy or use by human beings or animals, and from which structure sanitary sewage is or may be discharged.
- 2.5 **BUILDING SEWER** - See SEWER - TYPES
- 2.6 **CHARGES FOR SEWAGE SERVICE - MISCELLANEOUS BASES** - The term "Miscellaneous Bases" means the various bases the Authority may use for determination of sewage service charges.

2.7 CHARGES FOR SEWAGE SERVICE - RESIDENTIAL RATE - MONTHLY FLAT RATE PER PREMISE - A flat rate charge, as set forth in the Schedule of Rates, will be made against all residential premises that are provided with a sewer line service connection; that abut on sewerage facilities of the Authority and are located within 250 feet thereof, whether or not such premises are connected to the utility systems and whether vacant or occupied; all as applicable for the available services, said premises being feasible to be connected to said facilities; all such charges against the properties to be made a lien thereon, to be liened and collected against the property in name of the owner, reputed owner, occupier, mortgagee, or anyone beneficially interested therein, as claims are liened and collected under the Municipal Claims Law of the Commonwealth of Pennsylvania.

2.8 CHARGES FOR SEWAGE SERVICE - NON RESIDENTIAL RATE - MONTHLY FLAT RATE PER EDU - A flat rate charge, as set forth in the Schedule of Rates, will be made against all non residential premises that are provided with a sewer line service connection; that abut on sewerage facilities of the Authority and are located within 250 feet thereof, whether or not such premises are connected to the utility systems and whether vacant or occupied; all as applicable for the available services, said premises being feasible to be connected to said facilities; all such charges against the properties to be made a lien thereon, to be liened and collected against the property in name of the owner, reputed owner, occupier, mortgagee, or anyone beneficially interested therein, as claims are liened and collected under the Municipal Claims Law of the Commonwealth of Pennsylvania.

1 EDU = 90 gpdpc x 2.6 persons per household x 365 days/year = 85,410 gallon per year.

The number of EDU's for Non-Residential metered customers shall be calculated annually, based upon actual metered water consumption for the prior 12 months. Each Non-Residential customer shall be billed, as a minimum, as one (1) EDU. For Non-Residential metered customers whose annual water consumption computes to greater than one (1) EDU, the calculated number of EDU's to be billed shall be rounded up to the next 1/5 of an EDU.

The number of EDU's for Non-Residential unmetered customers shall be calculated at the time of sewer service application. Each Non-Residential unmetered customer shall be billed, as a minimum, as one (1) EDU.

2.9 CHARGES FOR SEWAGE SERVICE - MULTIPLE BILLING - The term "Multiple Billing" shall mean the basis for computing charges for sewage service in all cases where more than one premises is served through one water meter or a water meter installation (a meter installation being defined as an installation that includes two or more meters placed at one or more locations for the purpose of serving one or more premises in a building or related group of buildings, in a facility or related group of facilities, in an area or related group of areas, and in such other properties; more than one meter generally being provided to allow flexibility of operation, to furnish adequate capacity, to permit more accurate measurement of water, due to the physical layout of the property, and for such other reasons); and the basis for charges for sewage

Rules and Regulations Governing Sewage Service - continued

service in all cases where more than one premises is served through one premises or building sewer line; the procedure for such billing being outlined in the Rules and Regulations and summarized as follows, the general principles of Multiple Billing to apply also when charges are subject to a unit charge basis.

- 2.9.1 Number of Premises - The potential number of premises in any building or group of buildings, and the charges therefor, are subject to determination by the Authority prior to original approval of the Authority to furnish sewage services, and are subject to determination subsequent to any alterations, additions or changes in the building or group of buildings. The customer or customers, or Townships, shall notify the Authority promptly relative to any changes in the number of premises, the number at any time always being subject to determination by the Authority.
- 2.9.2 Different Types of Property Use - This regulation shall apply regardless of whether a business may be owned by a customer who is also receiving household sewage service through the same building sewer lines, or the two or more premises are located in one building or in different buildings, the ownership of the property or business not being significant.
- 2.9.3 Billing of Tenant - Should the owner desire that the Authority conduct business directly with the tenant of each premises, he must first provide physical means of billing and collecting the service charges therefor.
- 2.9.4 Sewage Service Charges Based on Fixture Rates - The computation of the total charge for sewage service based on fixture billing shall involve the determination of the average number of fixtures for a premises, based on analysis of all related individual premises and the computation of the charge for this average number of fixtures, and the multiplication thereof by the total number of premises.
- 2.9.5 Sewage Service Charges Based on Water Consumption - The total charges based on water consumption for residential customers shall be determined as follows:

The average use of water for each billing period for each premises shall be equal to the total number of gallons registered by the water meter or meter installation divided by the number of premises. The average use of water for each billing period for each premises, as thus determined, shall provide the basis for billing.

The total charge for sewage service shall be equal to the average charge for each premises multiplied by the number of premises, determined as just set forth, and the total charge shall be submitted to the customers as the proper charge for sewage service furnished to the type of building and/or buildings included hereunder.

Rules and Regulations Governing Sewage Service - continued

- 2.9.6 Sewage Service Charges - Miscellaneous Bases - The Authority may use miscellaneous bases for determination of sewage service charges, such other methods to be subject, essentially, to the general principles just outlined and to the Schedule of Rates.
- 2.10 CHARGES FOR SEWAGE SERVICE - NORMAL - The "normal" charges for sewage service will be based on the published Schedule of Rates of the Authority and be subject to the various bases for billing as set forth herein and/or as set forth in the published Schedule of Rates.
- 2.11 CHLORINE REQUIREMENT - The term "Chlorine Requirement" shall mean the amount of chlorine, in parts per million by weight, which must be added to sewage to produce a specified residual chlorine content or to meet the requirements of some other objective, in accordance with procedures set forth in "Standard Methods for the Examination of Water, Sewage and Industrial Wastes," published by the American Public Health Association.
- 2.12 COMBINED SEWER - See SEWER - TYPES
- 2.13 COMMERCIAL SERVICE - See SERVICE - TYPES
- 2.14 CUSTOMER - The word "Customer", as used herein, means the owner or tenant, as later defined, contracting for and obtaining sewage service for one or more premises, and the word "Customers" means also contracting for and using service.
- 2.15 DATE OF PRESENTATION - The date upon which a bill or notice is mailed, as evidenced by the United States Post Office postmark.
- 2.16 DOMESTIC SERVICE - See SERVICE - TYPES
- 2.17 EQUIVALENT DWELLING UNIT - Equivalent dwelling unit (EDU) as used herein shall mean a volume of water equivalent to the average amount of water consumed by a single family residential unit. The number of EDU's assigned to a residential customer shall be 1.0, regardless of the amount of water used.
- The number of EDU's assigned to an industrial or other non-residential user shall be determined by dividing the total yearly metered water usage (or metered wastewater flow) by the average yearly water usage of a residential unit. The Authority has established the yearly residential usage, for the purpose of computing EDU's, as 85,410 gallons per year.
- 2.18 GARBAGE - The term "Garbage", as used herein, shall mean solid wastes from the preparation, cooking and dispensing of food and from the handling, storage and sale of produce.
- 2.19 GARBAGE - PROPERLY SHREDDED - The term "Garbage - Properly Shredded", as used herein, shall mean the wastes from the preparation, cooking and dispensing of food that has been shredded to such degree that all particles will be carried freely in

Rules and Regulations Governing Sewage Service - continued

suspension under the flow conditions normally prevailing in public sewers, with no particle greater than 1/2-inch in any dimension.

- 2.20 INDUSTRIAL SERVICE - See SERVICE - TYPES
- 2.21 INDUSTRIAL WASTES - The term "Industrial Wastes", as used herein, means any liquid, gaseous or water-borne wastes from industrial processes or commercial establishments, as distinct from sanitary sewage.
- 2.22 INDUSTRIAL WASTES - ABNORMAL - The term "Abnormal Industrial Wastes" shall mean any industrial waste having a suspended solids content or B.O.D. appreciably in excess of that normally found in municipal sewage. For the purpose of this regulation, any industrial waste containing more than 350 parts per million of suspended solids, or having a B.O.D. in excess of 300 parts per million, shall be considered an abnormal industrial waste, regardless of whether or not it contains other substances in concentrations differing appreciably from those normally found in municipal sewage.
- 2.23 INTERCEPTING SANITARY SEWER - See SEWER - TYPES
- 2.24 LATERAL SANITARY SEWER - See SEWER - TYPES
- 2.25 MAIN SANITARY SEWER - See SEWER - TYPES
- 2.26 MUNICIPALITY - The word "Municipality" shall mean the Townships of Independence and Cross Creek.
- 2.27 MUNICIPAL OR PUBLIC SERVICE - See SERVICE - TYPES
- 2.28 NATURAL OUTLET - The term "Natural Outlet", as used herein, shall mean any outlet into a watercourse, pond, ditch, lake or other body of surface or ground water.
- 2.29 OWNER - The word "Owner", wherever the same appears herein, means the person, firm or corporation or association having an interest as owner, or a person, firm or corporation representing itself to be the owner, whether legal or equitable, sole or only partial, in any premises which is or is about to be furnished sewage service by the Authority, and the word "Owners" means all so interested.
- 2.30 PARTS PER MILLION - The term "parts per million" shall mean a weight-to-weight ratio; the parts per million value multiplied by the factor 8.345 shall be equivalent to pounds per million gallons of water.
- 2.31 pH - The term "pH", as used herein, shall mean the logarithm (Base 10) of the reciprocal of the weight of hydrogen ions in grams per liter of solution. The pH shall be determined by one of the acceptable methods described in the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association.

Rules and Regulations Governing Sewage Service - continued

2.32 PREMISES - The word "Premises", as used herein, shall be the property or area, including the improvements thereon, to which sewage service is or will be furnished, and as used herein shall be taken to designate:

- a. A building under one roof, owned or leased by one customer and occupied as one residence or one place of business; or
- b. A group or combination of buildings owned by one customer, in one common enclosure, occupied by one family or one organization, corporation or firm as a residence or place of business, or for manufacturing or industrial purposes, or as a hotel, hospital, church, parochial school, or similar institution, except as otherwise noted herein; or
- c. The one side of a double house having a solid vertical partition wall; or
- d. Each side or each part of a house or building occupied by one family, even though the closet and/or other fixtures be used in common; or
- e. Each apartment, office, or suite of offices and/or place of business located in a building or a group of buildings, even though such buildings in a group are interconnected by a tunnel or passageway, covered areaway or patio, or by some similar means or structure; or
- f. A public building devoted entirely to public use, such as a town hall, school house, fire engine house; or
- g. A single lot or park or playground; or
- h. Each house in a row of houses; or
- i. Each dwelling unit in a house or building, a dwelling unit being defined as a building or portion thereof with exclusive culinary facilities designed for occupancy and used by one person or by one family (household); or
- j. Each individual and separate place of business and/or occupancy located in one building or group of buildings commonly designated as shopping centers, supermarket areas, and by such other terms; or
- k. Each dwelling unit in a public housing development owned and operated by the United States of America, a municipal subdivision of the Commonwealth of Pennsylvania, or an agency or instrumentality of the United States or the Commonwealth of Pennsylvania; by a philanthropic foundation or organization or some such similar body or organization; or operated under private ownership; or
- l. Each trailer shall constitute a premises.

Rules and Regulations Governing Sewage Service - continued

Each premises shall be served through a separate sewer service line, except where physical conditions prevent the installation of separate service facilities as determined by the Municipality, present conditions excepted.

The term "Physical Conditions," as used elsewhere herein, shall apply on to such situations as relate to the plumbing layout in the premises. All building sewer service lines, as defined herein, shall be installed in accordance with all requirements relative thereto, and shall be connected only to main lines abutting on the property and owned by the Authority, except as otherwise provided, such building sewer service lines to extend from the street in a straight line, at right angles to the street, to the premises where possible. All proposed installations must be approved by the Authority prior to installation.

The charges for sewage service in all cases where more than one premises is served through one premises or building sewer line shall be determined as set forth in detail in these Rules and Regulations and Schedule of Rates.

- 2.33 PRESENTATION - DATE OF - See DATE OF PRESENTATION
- 2.34 PUBLIC SEWER - See SEWER - TYPES
- 2.35 RATE SCHEDULE SHEET - The term "Rate Schedule Sheet" shall mean an individual sheet of Rate Schedules and Regulations of the Authority.
- 2.36 RATES - SCHEDULE OF - The term "Schedule of Rates" shall mean the entire body of effective rates, rentals, charges and regulations, as published and made a part hereof.
- 2.37 SANITARY SEWER - See SEWER - TYPES
- 2.38 SANITARY SEWERAGE SYSTEMS - The term "Sanitary Sewerage Systems" shall mean all separate sanitary sewers, all sewage pumping stations, all sewage treatment works and all other facilities provided for the collection, transportation and treatment of sanitary sewage and industrial wastes with their appurtenances and any additions, extensions or improvements thereto that may be made by the Authority and/or others.
- 2.39 SERVICE CHARGE - The term "Service Charge" shall mean the basic assessment levied on all users of the public sewer system whose wastes do not exceed in strength the concentration values established as representative of normal sewage.
- 2.40 SERVICE LINES - SEWER - See SEWER - TYPES - BUILDING SEWER
- 2.41 SERVICE - TYPES
 - 2.41.1 Commercial Service - Provision of sewage service for premises where the customer is engaged in trade and/or commerce.

Rules and Regulations Governing Sewage Service - continued

- 2.41.2 Domestic or Residential Service - Provision of sewage service for residential premises.
- 2.41.3 Industrial Service - Provision of sewage service for premises where the customer is engaged in manufacturing or process industries.
- 2.41.4 Municipal or Public Service - Provision of sewage service to a municipal subdivision of the Commonwealth of Pennsylvania or Agency thereof, or to other similar public bodies.
- 2.41.5 School Service - Provision of sewage service to public, private and other types of schools.
- 2.41.6 Temporary Service - A service for bazaars, fairs, construction work, trailers or trailer camps and similar uses, that because of their nature will not require permanent or steady service.
- 2.42 **SEWAGE** - The word "Sewage", as used herein, shall mean a combination of the water-carried wastes from residences, business buildings, institutions and industrial establishments.
- 2.43 **SEWAGE AGENCY - MUNICIPAL** - The term "Municipal Sewage Agency", if used herein, shall mean a municipal subdivision or an authorized representative thereof, and/or owner, having the power to negotiate and enter into an agreement with the Authority relative to the furnishing of sewage service by the Authority to premises constructed or to be constructed in the municipal subdivision involved.
- 2.44 **SEWAGE AUTHORITY** - The term "Sewage Authority", if used herein, shall mean the Independence-Cross Creek Joint Sewer Authority, with the power to regulate and control the financing, design, construction and operation of sanitary sewerage systems, and to establish all schedules of fees, rates and charges.
- 2.45 **SEWAGE - SANITARY** - The term "Sanitary Sewage" shall mean the normal water-carried household and toilet wastes from residences, business buildings, institutions, industries and commercial establishments, exclusive of storm water runoff, surface water or ground water.
- 2.46 **SEWAGE SERVICE CONNECTION** - The term "Sewage Service Connection" shall be intended to mean the connection of a sewer carrying sewage to the Sanitary Sewerage System.
- 2.47 **SEWAGE TREATMENT PLANT** - The term "Sewage Treatment Plant", as used herein, shall mean any arrangement of devices and structures used for treating sewage.
- 2.48 **SEWAGE WORKS** - The term "Sewage Works", as used herein, shall mean all facilities for collecting, pumping, treating and disposing of sewage.

Rules and Regulations Governing Sewage Service - continued

- 2.49 **SEWER EXTENSIONS** - The term "Sewer Line Extensions" shall mean extensions of sewer lines, exclusive of building or service connections, beyond existing facilities.
- 2.50 **SEWER - TYPES** - The word "Sewer", as used herein, shall mean a pipe or conduit for carrying sewage, and the following different classifications of sewers are defined:
- 2.50.1 Building Drain - The term "Building Drain", as used herein, shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer, which begins at a point five (5) feet outside the inner face of the building wall.
- 2.50.2 Building Sewer or Sewer Service Line - The term "Building Sewer" or "Sewer Service Line", as used herein, shall mean the extension from the building drain to the public sewer or other place of disposal.
- 2.50.3 Building Sewer Connection - The term "Building Sewer Connection" shall mean the connection of the Sewer Service Line to the public sewer.
- 2.50.4 Combined Sewer - The term "Combined Sewer", as used herein, shall mean a sewer receiving both surface or storm water runoff and sanitary sewage.
- 2.50.5 Intercepting Sanitary Sewer - The term "Intercepting Sanitary Sewer", as used herein, shall mean a sewer into which the sewage from all main and other sewers is discharged.
- 2.50.6 Lateral Sanitary Sewer - The term "Lateral Sanitary Sewer", as used herein, shall mean a sewer which does not receive sewage from any other common sewer.
- 2.50.7 Main Sanitary Sewer - The term "Main Sanitary Sewer" or "Trunk Sewer", as used herein, shall mean a sewer that is a main stem or artery of the sewerage system.
- 2.50.8 Public Sewer - The term "Public Sewer", as used herein, shall mean a sewer in which all owners or abutting properties have equal rights and is controlled by public authority.
- 2.50.9 Sanitary Sewer - The term "Sanitary Sewer", as used herein, shall mean a sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.
- 2.50.10 Storm Sewer - The term "Storm Sewer" or "Storm Drain", as used herein, shall mean a sewer which carries storm and surface waters and drainage, but excludes sewage and polluted industrial wastes, where water made intentionally dirty by use is not admitted.

Rules and Regulations Governing Sewage Service - continued

- 2.50.11 Sub-Main Sanitary Sewer - The term "Sub-Main Sanitary Sewer" or "Branch Sewer", as used herein, shall mean a sewer into which the sewage from two or more laterals is discharged.
- 2.51 SHALL - MAY - The term "shall" means mandatory, and the term "may" means permissible.
- 2.52 SLUG - The word "Slug" shall mean any discharge of water, sewage or industrial waste which, in concentration of any given constituent or in quantity of flow, exceeds for any period of longer duration than fifteen minutes more than three times its average hourly concentration of flow.
- 2.53 STORM SEWER - See SEWER - TYPES
- 2.54 STORM WATER RUNOFF - The term "Storm Water Runoff" shall mean that portion of the rainfall that is drained into the sewers.
- 2.55 SUB-MAIN SANITARY SEWER - See SEWER - TYPES
- 2.56 SURCHARGE - The word "Surcharge" shall mean the assessment in addition to the service charge which is levied on those persons whose wastes are greater in strength than the concentration values established as representative of normal sewage.
- 2.57 SUSPENDED SOLIDS - The term "Suspended Solids", as used herein, shall mean solids that either float on the surface of, or are in suspension in, water, sewage or other liquids, and which are removable by a laboratory filtration device. The quantity of suspended solids shall be determined by one of the acceptable methods described in the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association.
- 2.58 TEMPORARY SERVICE - See SERVICE - TYPES
- 2.59 TENANT - The word "Tenant", as used herein, means anyone occupying premises under lease from a lessor and/or occupant of premises with permission of the owner, in any premises which is about to be or can be furnished sewage service by the Authority.
- 2.60 WATERCOURSE - The word "Watercourse", as used herein, shall mean a channel in which a flow of water occurs, either continuously or intermittently.
- 2.61 WASTES - INDUSTRIAL - See INDUSTRIAL WASTES
- 2.62 WASTE OR WATER - UNPOLLUTED - The term "Unpolluted Water or Waste" shall mean any water or waste containing none of the following: free or emulsified grease or oil; acid or alkali; phenols or other substances imparting taste and odor to receiving waters; toxic or poisonous substances in suspension, colloidal state or solution; obnoxious or odorous gases. It shall contain not more than 10,000 parts per million by weight of dissolved solids, of which not more than 2,500 parts per million shall be

Rules and Regulations Governing Sewage Service - continued

as chloride, and not more than ten parts per million each of suspended solids and B.O.D. The color shall not exceed fifty parts per million. Analyses for any of the above-mentioned substances shall be made in accordance with the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association.

SECTION 3. CONDITIONS OF SERVICE

- 3.1 **GENERAL** - The Authority will furnish sewage service only in accordance with the currently prevailing, and as hereinafter revised, Rates, Rules and Regulations of the Authority, which Rates, Rules and Regulations are made a part of every application, contract, agreement or license entered into between the property owner or customer and the Authority.

The Authority hereby reserves the right, so often as it may deem necessary, to alter, amend and/or repeal the Rates and/or these Rules and Regulations, or any part, and in whole or in part, to substitute new Rates, Rules and Regulations, which altered and/or amended new Rates, Rules and Regulations shall forthwith, without notice, become and thereafter be a part of every such application, contract, agreement or license for sewage service in effect at the time of such alteration, amendment and/or adoption.

The furnishing of sewage service outside the limits of the Townships of Independence and Cross Creek will be limited to premises included under agreements entered into with the owners of said premises.

All agreements executed with a "Municipal Sewage Agency" shall be subject to approval of the municipal subdivision represented thereby, the agency, in some cases, being the municipal subdivision or an Authority created thereby.

The furnishing of sewage services to premises, even though located on properties included under agreements with Sewage Agencies and/or others, may be refused if sewage flows therefrom are found or are estimated to be excessive, and/or the character of the sanitary wastes being or to be discharged therefrom is determined to be unsatisfactory.

Maintenance and repair of the sewer service lines or building sewers, as well as the cost thereof, will be the responsibility of the user and/or property owner. No work shall be done on any sewer service lines or building sewer without prior approval by the Authority, and all work shall be subject to inspection during performance. No work shall be done in any right of way of any street, roadway or any street or alley, or private right of way without first obtaining a permit from the controlling municipal subdivision and/or governmental body, and the Authority exercises the right to do all work with respect to connections to the main sewers and bill the user and/or property owner for such work, the work to be done in accordance with requirements set forth later herein. Three days' notice must be given the Authority prior to any work being done on the sewer service line or building sewer, and approval therefor obtained.

SECTION 4. APPLICATIONS AND CONTRACTS FOR CONNECTIONS AND SEWAGE SERVICE

- 4.1 **GENERAL** - The Authority, in cases involving sewage service outside the Authority will negotiate with each party concerned in order to effect a comprehensive agreement whereby all premises, excepting those set forth herein, or such areas as are agreed upon, that are located in the respective municipality or the respective drainage area that will be furnished sewage service. Such agreements may permit sewage service for the entire respective drainage areas, excepting premises set forth herein, subject to compliance with the Rules and Regulations of the Authority.

The furnishing of sewage service to premises located in municipal subdivisions which do not enter into the aforesaid comprehensive agreements, excluding such premises as are not subject to such agreements, will be furnished only through agreements with a Municipal Sewage Agency, as herein defined.

The furnishing of sewage services to premises in the Townships of Independence and Cross Creek will be in accordance with the following requirements set forth herein, and the requirements as just set forth.

- 4.2 **APPLICATION FOR SEWER CONNECTIONS AND SEWAGE SERVICE - MUNICIPAL SUBDIVISION** - A municipal subdivision desiring to enter into a contract providing for sewage service to all properties located in the municipal subdivision or a certain drainage area, excluding such properties as previously set forth, shall submit a written application to the Authority, prepared on the form furnished by the Authority. Subsequent to submission of an application, negotiations shall be conducted to establish the terms of an agreement, including the sewage services, fees and charges; and, subject to successful negotiations thereon, an agreement shall be executed between the municipal subdivision and the Authority.

The furnishing of sewage service, subsequent to the execution of an agreement, shall then be subject to the submission of applications for sewer connections and/or service by the Authority for each premises or group of premises, and the approval thereof. Such applications are to be accompanied by such data as later herein set forth, and as required to allow the analysis of such service by the Authority, of each individual premises. All costs incurred by the Authority shall be reimbursed by the Applicant.

- 4.3 **APPLICATION FOR SEWER SERVICE CONNECTION - INDIVIDUAL PREMISES** - A written application, prepared on the form furnished by the Authority, must be submitted to the Authority for the purpose of requesting the installation of a sewer building connection to each premises, or group of premises where an individual sewer connection is permitted, in accordance with these Rules and Regulations, said application to be subject to such service connection fees (tap fee) and charges currently in effect for each of the respective service areas, which application, together with the Rules and Regulations of the Authority, shall regulate and control the service to such premises, and said application to be submitted at least one month, or such shorter time as the Authority may approve, before the connection is required. The

installation of all building sewers shall be in accordance with the requirements later set forth herein.

- 4.4 APPLICATION FOR SEWAGE SERVICE - INDIVIDUAL PREMISES - A written application, prepared on the form furnished by the Authority, must be submitted to the Authority for the purpose of requesting sewage service, said application to be signed by the owner of the premises or his duly authorized agent, who may be a tenant, subject to the Authority exercising the right to require that the property owner act as guarantor for all bills rendered.

If the tenant neglects to make such payments within the time specified, said application shall be subject to the requirements relative to deposits and fees as hereinafter set forth, which application, together with the Rules and Regulations of the Authority, shall regulate and control the service for the premises, and said application is to be submitted at least one week, or such shorter time as the Authority may approve, before service is required.

- 4.5 APPROVAL OF APPLICATIONS - Applications are merely written requests for building sewer connections and sewage service. All applications are subject to approval of the Authority, or its authorized agent, and are subject to payment of the required fees and compliance with all regulations relative thereto, prior to commencement of the work or service requested therein.

- 4.6 APPLICATION, A CONTRACT - The application for sewage service shall be a binding contract on both the customer and the Authority, upon approval by the Authority; and in all instances where the customer is a tenant, the owner of the premises occupied by the tenant shall be party to the contract. Rates for service shall accrue from the date the service is available to the premises with respect to the work and responsibilities of the Authority, except on new buildings where service shall begin upon completion or occupancy unless, of course, service is required during construction.

- 4.7 CONTRACTS WITH DELINQUENTS - No agreement will be entered into by the Authority with any applicant for sewage service, whether owner or tenant, until all arrears for service, rents, bills for work or other charges due by the applicant at any premises now or theretofore owned or occupied by him shall have been paid or until satisfactory arrangements for payment of such unpaid bills shall have been made.

- 4.8 TERM OF CONTRACT - All contracts covering sewage service shall continue in force from month to month or billing period unless ten (10) days' written notice is given by either party of a desire to terminate the contract. When written notice, as mentioned before, is given by the customer of a desire to terminate the contract, no further charge will be made for sewage service upon such notice, providing (a) the building is torn down and the facilities cease to be used, or (b) the premises sold and the new owner enters into a contract with the Authority for services; the premises always being subject to vacancy and such other charges, as later described herein.

4.9 SPECIAL CONTRACTS - The Authority may require, prior to approval of service, special contracts other than applications, under the following conditions:

- a. If required by provisions in the Schedule of Rates, the duration of the contract to be as specified in the schedule.
- b. If the construction of extension and/or other facilities is necessary.
- c. For providing temporary service, including sewage service for building or other special purposes.
- d. For connections with other qualified utilities or municipal subdivisions.
- e. For extensions from the sewerage system, whether or not such facilities are to be conveyed to the Authority.
- f. If deemed necessary by the Authority.

4.10 GOVERNMENTAL REGULATIONS A PART OF CONTRACT - All contracts for sewage service shall be subject to the following provisions:

The contracts shall, at all times, be subject to such changes or other modifications as may be directed by action of the Legislature of the Commonwealth of Pennsylvania or other regulatory body, if applicable.

4.11 INDIVIDUAL LIABILITY FOR JOINT SERVICE - Two or more parties who join to make application for service shall be jointly and severally liable and shall be sent periodic bills. The Authority reserves the right, in such individual cases, when deemed necessary, to make one or more of said parties the guarantor for payment of said bill and to send a single bill.

4.12 NEW APPLICATION UPON CHANGE IN OWNERSHIP OR TENANCY OR CONDITIONS OF USE - A new application must be submitted and approved by the Authority upon any change in ownership of the property when the owner is the customer, or in any tenancy where the tenant is the customer, or in the service, as described in the application, and the Authority shall have the right, upon five (5) days' notice, to discontinue the service until such new application has been made and approved. Upon change of ownership, the responsibility for complying with the foregoing is upon the buyer and seller, and their failure to do so makes both parties liable for any obligation owing which may be collected from either or liened against the property in either's name.

In connection with a change in service, any customer making any material change in size, character or extent of equipment or operation utilizing sewage service, or whose change in operations results in a substantial increase in the flow of sewage or industrial waste, shall immediately give the Authority written notice of the nature of the change and, if necessary, amend his application.

Rules and Regulations Governing Sewage Service - continued

- 4.13 RENEWAL OF SERVICE - Sewage service will be renewed under a proper application when the conditions under which such service was discontinued are corrected, and upon the payment of all charges provided in the Schedule of Rates or Rules of the Authority due from the applicant.
- 4.14 CONDITION OF PLUMBING SYSTEM - The piping, plumbing and fixtures on the property of the customer are assumed to be in satisfactory condition at the time service facilities are connected and service furnished; and the Authority, therefore, in connection with sewage service, may terminate such service if the plumbing and sanitary drainage system is not in accordance with the Rules and Regulations. All piping, plumbing, building sewer and related work on the premises shall be in accordance with the Rules and Regulations. Relative to plumbing and building drainage, all facilities shall be in accordance with all local, County and State regulations, except if the Authority requires more adequate and higher quality facilities the requirements of the Authority shall apply.

SECTION 5. DEPOSITS

- 5.1 GENERAL - The following general conditions shall apply to deposits in connection with applications for sewage service:
- a. Cash deposits are required from customers taking service for a temporary period in an amount equal to the estimated gross bill for such temporary period. Cash deposits may be required with all applications for service and will be required in all cases involving contracts with tenants, provided that, in no instance will deposits be required in excess of the estimated gross bill for any single billing period plus one month, plus a penalty of 5%, and shall not be less than a minimum charge of \$30.00, or as currently in effect. Such deposits may be refunded subject to establishment of satisfactory payment records, over a period of eight quarters, and in accordance with the conditions set forth in the Schedule of Rates. A review of the payment records will be made in at least three months after the period of eight quarters.
 - b. The payment of any bill within the meaning of these Rules shall be payment of the bill on or before the end of the month in which the bill is rendered, or the payment of any contested bill, payment of which is withheld beyond the period herein set forth. Any contested bill may be paid without penalty if the dispute is terminated substantially in favor of the customer, and if the payment is made by the customer within ten (10) days thereafter.
 - c. The deposit will not bear interest.
 - d. Any customer having a deposit will pay bills for service as rendered, in accordance with the Rules of the Authority, and the deposit shall not be considered as payment on account of a bill during the term the customer is receiving service. Upon the discontinuance of service to a customer for any reason set forth in these Rules, the Authority may apply the deposit of such

Rules and Regulations Governing Sewage Service - continued

customer to the payment of an unpaid bill for service and may retain any deposit as security for payment of minimum charges applicable against unoccupied property if such premises are to be unoccupied.

- e. When the customer desires to discontinue service, the Authority will refund the deposit upon the return of deposit receipt, properly signed, together with payment in full for all service rendered, and a notice to discontinue service, said notice to be rendered in accordance with the conditions set forth herein; except that no refunds will be made until and unless a proper deposit is made or security for payment of minimum charges against an unoccupied property or a proper deposit is made by or for a new customer, or such other required deposits are made with the Authority.
- f. All new connections to the system shall be subject to such tapping fees as are currently in effect for the separate districts and, where the building line is already installed, the premises shall be subject to such connection fees as are currently in effect for the separate districts; unless said connections are made pursuant to a contract between the Authority and another Sewage Agency providing otherwise, in which case, the fees set forth therein shall be charged.
- g. All connection fees as relate to sewerage systems are required to be paid in advance; but, if for any reason they are not, they are hereby made a lien against the property, to be liened and collected against the property in the name of the owner, reputed owner, occupier, mortgagee, or anyone beneficially interested therein as claims are lienee and collected under the Municipal Claims Law of the Commonwealth of Pennsylvania.
- h. The owner and/or the purchaser of any property transferred which is now or hereafter connected with the system shall immediately notify the Authority of the change of ownership; and the new owner or his duly authorized agent shall immediately make application for service; and, upon failure to do so, the Authority shall have the right, upon five (5) days' notice to discontinue the service until such new application has been made and approved.

SECTION 6. BUILDING SEWERS AND CONNECTIONS

- 6.1 **GENERAL** - All building sewers and connections to the system of the Authority shall be subject to submission of an application to the Authority, approval of the application and compliance with all requirements previously set forth, all requirements as follows and with any supplemental detailed regulations relative to design and installation of building sewers.

No unauthorized person shall uncover or make any connections with or openings into, use, alter or disturb any sewer owned by the Authority without first having obtained a written permit from an authorized official, and permission to use the building sewer will not be granted until after a physical inspection has been made of the installation and a determination made that said service line is constructed to exclude all storm water,

downspout and such other illegal connections, and all industrial wastes prohibited herein are excluded.

All costs and expenses incidental to the installation and connection of the building sewer shall be borne by the owner. The owner shall indemnify the Authority for any loss or damage that may directly or indirectly be caused by the installation of the building sewer. All costs and expenses incident to maintenance, repair, replacement and other work in connection with building sewers shall be borne by the owner.

All work in public streets, roads, alleys, rights of way and other property shall be approved by the governing agency controlling such areas and the Authority, and the Authority exercises the right to do all work with respect to connection to the main sewer and bill the user and/or property owner for such work.

The use of old building sewers in connection with new buildings will be permitted only when they are found, upon examination and a test witnessed by the Authority or other authorized persons or agencies, to meet all requirements set forth herein. Owners should test in accordance with applicable code.

The main drainage system of every house or building shall be separately and independently connected with the street sewer. Where existing conditions preclude separate connections, the Authority will consider granting a waiver of this regulation.

6.2 PLUMBING BUILDING DRAIN AND DRAINAGE SYSTEM - The plumbing system serving new construction shall be designed and constructed in accordance with the applicable Plumbing Code and/or regulations of the controlling municipal subdivisions.

6.3 BUILDING SEWER AND CONNECTION - MATERIALS - The building sewers shall be PVC gravity sewer pipe, shall meet or exceed the requirements of Standard Specifications for Type PSM polyvinyl chloride (PVC) sewer pipe and fittings, A.S.T.M. Designation D3034 - SDR35, latest edition, and approved by the Authority, in addition to the foregoing specifications.

The joints for PVC sewer pipe shall be integral wall bell and spigot joints with a locked in elastomeric sealing ring. The joints shall meet or exceed the requirements of A.S.T.M. D-3212 - "Joints for Drain and Sewer Pipes Using Flexible Elastomeric Seals".

6.4 BUILDING SEWER AND CONNECTION - DESIGN AND INSTALLATION - The building sewer must be laid on a straight slope with an approved grade and as near as possible at right angles to the street and at a depth to avoid all obstacles, to permit proper alignment, and to provide proper cover and shall be designed and installed in accordance with the following requirements.

All excavation in the bottom of the trench shall conform to the curvature of the pipe and afford a good bearing surface. Where rock is encountered, the excavation shall be carried below the bottom of the pipe for the distance required, at least six (6) inches, and the excavated area backfilled with twelve (12) inches of Pennsylvania No.

Rules and Regulations Governing Sewage Service - continued

2B coarse aggregate or approved equal material. The width of the trench shall be excavated to a minimum width and the trench shall be properly shored where required. All excavation required for the installation of the building sewer shall be open trench work unless otherwise approved.

In the installation of the approved pipe, the spigot shall be lined up true with the bell of the pipe; the gasket and spigot end of the pipe shall be lubricated with a water-resistant special cement or lubricant furnished by the manufacturer of the joint material and the pipe pushed home. In pushing the pipe home, a block shall be placed against the socket of the pipe, a pushing bar driven into the ground beside the block, and a light pressure applied to the bar against the block. The joints shall be installed in accordance with the requirements of the Authority.

All joints shall be gastight and watertight. In event the Authority or its authorized representative has reason to question the adequacy or tightness of construction of the service line, said service line shall be subjected to infiltration, exfiltration air or smoke tests as required by the Authority, and the cost of such tests, as well as the actual cost of construction of the service line itself, shall be borne entirely by the owner and/or prospective customer.

The size and slope of the building sewer shall be subject to approval, and in accordance with the local plumbing codes or with the National Plumbing Code, if no other plumbing code prevails; but, in no event shall the diameter be less than 4 inches. The slope of the pipe shall not be less than 1/4-inch per foot, the Authority exercising the right to approve less slope where extenuating conditions exist, subject to special requirements.

Wherever possible, the building sewer shall be brought to the building at an elevation sufficiently below the basement floor to permit proper connections to all house plumbing. No building sewer shall be laid parallel to or within three feet of any bearing wall which might thereby be weakened. The depth shall be sufficient to afford protection from frost. The building sewer shall be laid at uniform grade and in straight alignment insofar as possible. Changes in direction shall be made only with properly curved pipe and fittings.

In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such drain shall be lifted by approved artificial means and discharged to the building sewer, the capacity of such units to be subject to approval by the Authority.

The connection of a building sewer into the public sewer shall be made at the wye branch, if such branch is available at a suitable location. In the event suitable wye branches are not available, or in the opinion of the Authority cannot be economically or properly installed, a connection into the public sewer shall be made by a special saddle type connection that meets the approval of the Authority. Before any tapping machine is used, the applicant shall determine that the building sewer joints shall be compatible.

Rules and Regulations Governing Sewage Service - continued

If unusual trench conditions exist, such as excessive depth, unstable soil or such other conditions are encountered, the Authority may require the owner, at his expense, to encase the building sewer in concrete or such other steps taken which, in the opinion of the Authority, are necessary for proper installation.

The Authority may refuse a permit to allow a connection directly to the main intercepting sewer and require extensions and connection to a manhole; the manhole, sewer and other work to be done at the expense of the owner. In no event will a connection be permitted by the direct connection of a building sewer through a hole cut in the sewer.

The invert of the building sewer at the point of connection shall be at the same or at a higher elevation than the invert of the public sewer.

The applicant for the building sewer permit shall notify the Authority or authorized agency when the building sewer is ready for inspection and connection to the public sewer, as well as submit such other notices as previously set forth. The connection shall be made under the supervision of the Authority or authorized agency. The building sewer shall not be backfilled until after it is inspected and approved.

All excavations for building sewer installations shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the local municipality.

- 6.5 SEWER BUILDING LINE AND CONNECTION - MAINTENANCE - All sewer building lines and connections shall be maintained by the owner and/or tenant at his cost, and the sewer shall be protected properly and maintained by the owner and/or tenant. When repairs, renewals or replacements or other necessary work is required in the aforesaid facilities, the owner and/or tenant shall employ, without delay, competent tradesmen to do the work at his expense. All leaks shall be repaired immediately. No work shall be done, however, without the approval of the Authority and shall be done under the supervision of the Authority.

SECTION 7. USE OF SEWER

- 7.1 REQUIRED USE - All premises accessible to the public sanitary sewerage system shall be connected to the system at the expense of the user and/or property owner.

All premises accessible to the sanitary sewerage system upon which a building is hereafter constructed shall be connected to the system at the expense of the user and/or property owner.

All premises which hereafter become accessible to the sanitary sewerage system shall be connected to the system at the expense of the user and/or property owner, and such connection shall be made within three months after notice to make connection is issued by the Authority or its authorized representatives.

Rules and Regulations Governing Sewage Service - continued

All connections shall be made in accordance with requirements previously set forth and in accordance with the Plumbing Code or other applicable requirements of the municipality.

It shall be unlawful for any person owning any occupied building or premises accessible to the public sanitary sewerage system to erect, construct, use or maintain or cause to be erected, constructed, used or maintained any privy, cesspool, sinkhole, septic tank or other receptacle on such premises for receiving sanitary sewage.

No persons shall discharge or cause to be discharged into the sewerage system any storm water, surface water, ground water, roof run-off, subsurface drainage, cooling water or unpolluted industrial process water, and connections permitting such discharges shall be eliminated within thirty (30) days after notice to take such action is issued by the Authority or its authorized representative.

The Authority reserves the right to prohibit connections to the system, or to enforce discontinuance of the use of the sewerage system for deleterious industrial wastes, or to require pretreatment of such wastes in order to prevent damage to or adverse effect upon the system. The design, construction and operation of such pretreatment facilities shall be subject to approval of the Authority.

The industrial wastes will be considered harmful, in general, if the discharge thereof into the system may cause any of the following:

- a. Chemical reaction either directly or indirectly with the materials of construction of the public sewerage system in such a manner as to impair the strength or durability of the sewer structures.
- b. Mechanical action that will result in damage to the sewer structures.
- c. Prevention or interference with the normal inspection or maintenance of the sewer structures.
- d. Reduction of the hydraulic capacity of the sewer structures.
- e. Danger to public health and safety.
- f. Obnoxious conditions inimical to public interest.

Subject to the requirement by the Authority, a suitable manhole or manholes shall be constructed on the building or connecting sewer to facilitate observation, sampling and management of flow from the premises, when the discharge from such premises, including industrial wastes or industrial wastes and sanitary sewage combined, is in excess of 100,000 gallons per quarter. Such structures shall be constructed in accordance with plans approved by the Authority and shall be accessible, properly designed and in a safe location. The structures shall be constructed and maintained by the owner at his expense, and shall be maintained to be safely accessible at all times. The providing of such structures is mandatory.

7.2 PROHIBITED USES - Except as hereinafter provided, no person shall discharge or cause to be discharged any of the following waters or wastes to any public sewer:

- a. Any liquid or vapor having a temperature higher than $150\frac{1}{4}^{\circ}$ F, nor less than $32\frac{1}{4}^{\circ}$ F.
- b. Wastes containing liquids, solids or gases which, by reason of their nature or quality, may cause fire, explosion or be in any other way injurious to persons, the structures of the sewerage system or its operation.
- c. Any water or wastes having a pH lower than 5.5 or higher than 9.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the sewage works. The Authority may require installation and maintenance, where necessary, of suitable equipment to continuously measure and record the pH of wastes discharged.
- d. Wastes containing any noxious or malodorous gas or substance which, either singly or by interaction with sewage or other wastes, is, in the opinion of the Authority, likely to create a public nuisance or hazard to life, or prevent entry to sewers for their maintenance and repair.
- e. Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manure, hair, chemical paints or residues, greases, lime slurry or any other solid or viscous substances capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage works. Maximum permissible concentration will vary throughout the system, depending on size of the sewer and flows.
- f. Wastes containing insoluble, nonflocculent substances having a specific gravity in excess of 2.65.
- g. Wastes containing soluble substances in such concentrations as to cause the specific gravity of the waste to be greater than 1.1.
- h. Any water or waste which may contain more than 100 parts per million by weight of fat, oil or grease.
- i. Wastes containing more than 10 ppm of any of the following gases: hydrogen sulfide, sulfur dioxide, nitrous oxide or any of the halogens.
- j. Wastes containing gases or vapors, either free or occluded, in concentrations toxic or dangerous to humans or animals.
- k. Any waste containing toxic substances in quantities sufficient to interfere with the biochemical processes of sewage treatment works or that will pass

Rules and Regulations Governing Sewage Service - continued

through the sewage treatment works and exceed the State or Interstate requirements for the receiving stream.

- i. Any waters or wastes containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant.
- m. Any toxic radioactive isotopes.
- n. Wastes containing any of the following substances in solution in concentrations exceeding those shown in the following table:

<u>Substance</u>	<u>Maximum Permissible Concentration Parts per Million</u>
Phenolic compounds as C_6H_5OH	1
Cyanides as CN	2
Cyanates as CNO	10
Iron as Fe	17
Trivalent Chromium as Cr	3
Hexavalent Chromium as Cr	1
Nickel as Ni	3
Copper as Cu	2
Lead as Pb	2
Tin as Sn	2
Zinc as Zn	2
Cadmium as Cd	2

- o. Any garbage that has not been properly shredded.

Grease, oil, sand, grit or sediment interceptors shall be installed by the Owner provided when, in the opinion of the Authority or authorized agency, they are necessary for the proper handling of liquid wastes containing grease and/or in excessive amounts, or any flammable wastes, sand, grit or sediment and other harmful ingredients, except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Authority or authorized agency, and shall be located so as to be readily and easily accessible for cleaning and inspection.

Rules and Regulations Governing Sewage Service - continued

Grease, oil, sand, grit or sediment interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers which, when bolted in place, shall be gastight and watertight.

Where installed, all grease, oil, sand, grit or sediment interceptors shall be maintained by the owner, at his expense, in continuously efficient operation at all times.

Where preliminary treatment facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner, at his expense.

When required, the owner of any property served by a building sewer carrying industrial wastes shall install a suitable control manhole in the building sewer to facilitate observation, sampling and measurement of the wastes. Such manhole, when required, shall be accessible and safely located, and shall be constructed in accordance with plans as approved by the Authority. The manhole shall be installed by the owner at his expense, and shall be maintained by him so as to be safe and accessible at all times.

All measurements, tests and analyses of the characteristics of waters and wastes shall be determined in accordance with "Standard Methods for the Examination of Water and Wastewater", and shall be determined at the control manhole provided, or upon suitable samples taken at said control manhole. In the event that no special manholes have been required, the control manhole shall be considered to be the nearest downstream manhole in the public sewer to the point at which the building sewer is connected.

SECTION 8. METERS - SEWAGE SERVICE

- 8.1 **GENERAL** - In such instances where a premises is furnished sewage and not water service, the Authority may require the installation of a meter to measure water use, said installation to be made in accordance, in general, with the regulations as relate to meters for regular water service of the water utility serving the general area and these regulations and to be made at the cost of the customer, and be subject to these Rules and Regulations. The customer must submit an application to the Authority requesting approval of a proposed meter installation and a permit must be issued therefor.
- 8.2 **SIZE OF METER** - The Authority reserves the right, in all cases, to stipulate the size and type of the meter to be installed on each service or other type line and to require the installation of a larger size meter in any case where the peak use of water places any meter under undue or unusual strain, and/or exceeds the recommended meter capacity, and reserves the right to charge the fees currently in effect for the larger meters.

Rules and Regulations Governing Sewage Service - continued

The minimum size of a meter installed shall be the same size as the water service line except that, on a 3/4-inch line serving a domestic customer, the privilege of using a 5/8-inch meter may be allowed by the Authority.

- 8.3 LOCATION - The location for the meter shall be subject to the approval of the Authority, shall be at a convenient and accessible point, shall permit control of the entire supply, and shall allow proper protection of the meter from freezing or other harm.

No fixture shall be attached to or any branch made in the service pipe between the meter and the source of supply.

In cases where it is not practical to place the meter within the building, the Authority may require the property owner to construct, inside the property line, a meter pit with a suitable iron cover or a similar type of approved meter box, such installations to be made in accordance with a plan furnished or approved by the Authority.

- 8.4 INSTALLATION OF METER - All piping, fittings, valves, check valves, gauges, bolts, nuts, meter pit structures, manholes or other accessories or materials, and the labor for installing the same, used in connection with meter settings within the property line of the premises, shall be at the expense of the applicant. The customer shall employ for this work the services of skilled tradesmen, qualified and approved by the Authority, who shall cooperate with the Authority and install all the piping and appurtenances in accordance with the dimensions and requirements for each specific case, so that the meter or meters can be properly installed and connected by the Authority. The customer shall furnish and install on the service line a wheel handle, round way stop cock or gate valve, without waste, the same size as the service line on the street side and immediately before the meter, and a stop and waste cock or valve on the outlet side and immediately after the meter. A suitable check valve shall be furnished and installed by the customer at a point between the stop and waste cock or valve and the meter if necessary and required. When a check valve is installed, a safety valve shall be furnished and installed by the customer at a convenient point in the house piping to relieve excess pressures due to heating of water.

Under certain conditions where there is a demand or necessity for uninterrupted water service in order to eliminate inconvenience to both the customer and the Authority when repairs to or replacement of the meter is necessary, the Authority may, at its option, require the installation of a battery of two or more meters on the one service line, with a combined capacity approximately equal to the capacity of the single meter requested. Such installations shall be properly valved to control or cut any single meter out of service and permit its removal without interruption of service through the remaining meter or meters. In cases where meters are so installed or where the Authority requires more than one meter, bills will be separately rendered for each meter, the cost of such installations to be borne by the customer.

- 8.5 MAINTENANCE, CARE AND RESPONSIBILITY FOR DAMAGE - The owner and/or tenant shall maintain all meters at his expense. In the event of injury, freezing or nonworking of the meter, the customer shall promptly notify the Authority. The

Rules and Regulations Governing Sewage Service - continued

customer shall furnish and set another meter to replace the one frozen or damaged by such causes; and the cost of the repairs to the same, including replaced parts, labor and transportation charges, as well as the costs of testing and costs for reinstallation or changing of the meter, shall be paid by him.

- 8.6 METER TESTS - All meters shall be accurately tested before installation and thereafter periodically tested.

In the case of meters used for private water supply systems and where public water is not furnished, should the Authority at any time doubt the accuracy or correctness of the meter measuring water delivered to the customer's premises, the Authority will, and if the customer so desires, in his presence or that of his authorized representative, make a test of the accuracy of the meter. When a customer desires, either personally or through a representative, to witness the testing of a meter, he may require the meter to be sealed in his presence before removal, which seal shall not be broken until the test is made in his presence. If the meter so tested shall be found to be accurate within the limits herein specified, the Authority shall be responsible for the cost of testing, but if not so found, then the cost thereof shall be borne by the customer.

A report of all tests shall be made to the customer or Authority, and a complete record of such tests shall be kept by the Authority. The amount of the fee for tests made by the Authority shall be in accordance with the schedule of fees set forth in the Schedule of Rates.

Rates for testing meters not included in the above classifications, or which are so located that the cost is out of proportion to the fee specified, will be furnished by the Authority after an appraisal has been made to determine the cost. The fee above stipulated shall be payable by the applicant in advance. In the event the meter so tested is found to have an error, the bill, based on the last reading of such meter or meters, shall be corrected accordingly. This correction shall apply both for over or under registration.

- 8.7 CHANGE IN LOCATION OF METERS - The customer shall pay for the cost of relocation of all meters made at his request or for his convenience.

- 8.8 SEALS - No seal placed by the Authority for the protection of any meter, valve, fitting or other water connection shall be tampered with or defaced. It shall not be broken except upon authorization from the Authority or in the presence of an Authority representative. Where the seal is broken, the Authority reserves the right to remove the meter for test, at the expense of the customer, even though said meter registers accurately.

- 8.9 LEAKS - Customers are urged to give careful attention to their plumbing and fixtures and make immediate correction of all leaks. No allowance will be made by the Authority for water used, lost, stolen or otherwise wasted through leaks, carelessness, neglect or otherwise after the same has passed through the water meter.

- 8.10 READING AND REGISTRATION OF METERS - Readings of meters shall be taken monthly or quarterly, at the option of the Authority, and the quantity recorded by the meter shall be taken to be the amount of water passing through the meter, which amount will be conclusive on both the customer and the Authority, except when the meter has been found to be registering inaccurately or has ceased to register. In such cases, the quantity may be determined by the average registration of another meter for a period of at least 20 days, or of the same meter for a period of at least 20 days after it has been repaired, tested and reset, or the quantity consumed during a previous corresponding period may be used as a basis for settlement. If none of these methods can be applied fairly, another method may be used that will be just and reasonable to the Authority and to the customer.
- 8.11 NOTIFICATION RELATIVE TO CONDITION OF METER - The customer shall notify the Authority of damage to or the nonworking of the meter, or of the breaking of the seal or seal wire, as soon as he is aware of such a condition.
- 8.12 MINIMUM CHARGE - Every meter installed is subject to a fixed minimum monthly or quarterly charge, in accordance with the rates thereof, for which certain quantities of water will be allowed without additional charge; and where more than one premises is furnished service through one meter, the same fixed minimum monthly or quarterly charge shall apply for each and every premises; and the method of preparing bills for such installations is set forth elsewhere herein. Such minimum shall be nonabatable for a nonuser of water, and noncumulative against subsequent consumption. In the case of fractional bills covering less than a quarter, minimum charges and allowances shall be prorated.

The property owner will be held responsible for all bills not paid by tenants and/or others occupying the respective premises.

The billing for premises with respect to sewage services under a permit approving a meter on a private water system shall be subject to an additional minimum charge to defray the cost of the meter reading and other work, and such charges shall be in accordance with the fees set forth in the Schedule of Rates.

SECTION 9. SERVICE

9.1 DISCONTINUANCE OF SERVICE

- 9.1.1 By Customer - Any customer may terminate his active service contract with the Authority upon complete removal of the entire plumbing system from the premises, and upon giving written notice thereof to the Authority, and upon the lapse of a reasonable time thereafter to permit the Authority to perform an inspection of the premises to confirm that the entire plumbing system has been removed, and that there is no discharge of sanitary waste from the premises. The customer shall remain liable for active service to the premises described in his application until the Authority has received written notice from him and the termination of active service has taken effect, as stated above. The termination of active service does not relieve the owner

Rules and Regulations Governing Sewage Service - continued

of the premises of making payments of the minimum charges established for unoccupied premises, if the premises become unoccupied.

Discontinuance of service by the Authority for nonpayment of a bill or violation of these Rules shall not cancel the application for service nor constitute a waiver of this rule.

9.1.2 By Authority - Active service under any application may be discontinued for any of the following reasons:

- a. For misrepresentation in the application.
- b. For the use of service for or in connection with, or for the benefit of any other premises or purposes than those described in the application.
- c. For willful waste of water through improper or imperfect pipes, fixtures or otherwise.
- d. For failure to maintain in good order the building sewer connection and fixtures owned by the applicant.
- e. For failure to maintain in good order the water service line extensions and connections and fixtures owned by the applicant.
- f. For molesting or in any other way interfering with any service pipe, meter, meter box, curb stop, curb box or with any seal or any other meter or other fixtures and appurtenances of the Authority.
- g. For refusal of reasonable access to the premises for purposes of inspecting the piping, fixtures and water system appliances therein.
- h. For neglecting or refusing to make or renew advance payments where required, or for nonpayment of sewage service, or for any charge accruing under the application.
- i. Where the contract has been in any way terminated by the customer.
- j. For premises where the use of water reduces the capacity of the sewers to such an extent that normal service to others is impaired, this condition relating to sewerage service.
- k. For premises where the character of the wastes is detrimental to the sewer or is not in accordance with the requirements set forth herein.
- l. For unauthorized use by others of the building sewer line.

Rules and Regulations Governing Sewage Service - continued

- m. For premises where apparatus, appliances or equipment using water or sewers are dangerous, unsafe and not in conformity with any laws or regulations.
- n. For fraud or abuse.
- o. For violation of these Rules and Regulations or other requirements governing the furnishing of sewage service.
- p. The water service may be discontinued for nonpayment of a sewage bill.

9.2 RENEWAL OF SERVICE AFTER DISCONTINUANCE - Service may be renewed under a proper application when the conditions under which such service was discontinued are corrected, and upon the payment of all proper charges or amounts provided in the Schedule of Rates or Rules of the Authority due from the applicant.

9.3 TURN-OFF WITHOUT AUTHORIZATION - The customer shall not turn the water on or off at any corporation stop or curb stop, or disconnect or remove the meter, or permit its disconnection or removal without the consent of the Authority.

SECTION 10. BILLS AND PAYMENT

10.1 BILLS RENDERED AND DUE - All bills for sewage service will be rendered at the beginning of the service period, residential billing normally to be on a monthly basis. Bills for commercial, industrial, public and other such services may be rendered on a monthly or quarterly basis, at the option of the Authority.

All bills are payable to the Independence-Cross Creek Joint Sewer Authority at any pay agency of the Authority during regular business hours, or by mail.

The Authority will make regular meter readings where meters are installed monthly or quarterly, at its option, and bills will be rendered as soon as practicable after the reading of the respective meters.

All bills shall be due and payable at the end of the month after the date of presentation and, if not paid within this period, any balance due that has remained unpaid after the due date, shall be subject to a \$5.00 penalty per month plus 1% interest per month on the unpaid balance. At such time as the balance due (including penalty and interest) should exceed the sum of \$200.00, unless the customer has entered into a payment agreement with the Authority and is and remains in compliance therewith, the Authority shall issue to the customer a notice that unless the customer makes a payment in full or enters into a payment agreement with the Authority within thirty (30) days thereof, the Authority shall request the water company that serves the customer to shut off the customer's water supply. If the water supply is terminated as a result of nonpayment to the Authority, the customer shall also be responsible for any and all costs and expenses incurred by the Authority with the company including, but not limited to, shut off fees and reconnection of water service costs. Acceptance or remittance of bills on

the last day of this pay period shall be determined as evidenced by the postmark of the United States Post Office.

If the owner, occupant, tenant or customer shall fail to pay any rate or charge for sewer, sewage or sewage treatment service imposed by the Authority, the water utility shall shut off the supply of water to such premises until such overdue rentals, rates and charges shall be paid, but such shut-off shall only be after thirty (30) days' written notice to the person liable for payment of the rentals and the premises have been posted as provided by law. Such premises will continue to be subject to monthly charges for sewage. The Authority, in cases where no water utility furnishes service, shall terminate service based on the foregoing by physical means in preventing the use of the building sewer, at the cost of the owner.

If service is discontinued, it will not be restored until all unpaid bills and charges, including the turn-on charges, deposits, and such other charges are paid or satisfactory arrangements made for payment.

- 10.2 LIEN AGAINST PROPERTY - Notwithstanding the definition of the "Owner", "Tenant", and "Customer", as set forth in Section II hereof, and notwithstanding that the customer, applicant or contractor entering into an agreement with the Authority for the use of sewage service was not the owner of the premises served by the Authority, the owner of the premises shall be liable in personam and in rem for all sewage services rendered to said premises; and the Authority may, at its option, discontinue service, as previously set forth; and in addition thereto, may file suit in assumpsit against the owner, tenant and customer, severally or jointly, and may use any other remedy provided by law for the collection of delinquent bills; and in addition, shall file a municipal claim against the said property within the time limit required by law for the collection of delinquent bills; and in addition, shall file a municipal claim against the said property within the time limit required by law for such filing, so that the claim shall be assessed against the said property in the same way as other taxes are filed and liened, and may sue out a writ of scire facia or file a suggestion in the same manner and within the same period of time as provided by law for all municipal taxes and claims. The Authority shall use any or all of the remedies so provided by law, and the use of any one remedy shall not be exclusive of the Authority's other rights and remedies.

The Municipal Acts and Township Acts relating to liens of property for nonpayment of water bills and sewage bills are incorporated herein and made a part hereof.

- 10.3 MINIMUM CHARGE - SEWAGE SERVICE - No Sewer Connection - A minimum charge will be levied and assessed against any property abutting and within 250 feet of the public sewer system, even though such premises is not connected to the sewer, providing, however, that connection to the sewer is feasible. All new premises shall be subject to extension of a sanitary sewer to permit obtaining service therefrom, providing such extension is not more than 250 feet, and a septic tank or other privately owned sewage treatment facilities shall not be constructed on such premises.

Rules and Regulations Governing Sewage Service - continued

- 10.4 SEWAGE AND OTHER CHARGES - A LIEN AGAINST PROPERTY - All sewage and other service charges herein designated or set forth in the Schedule of Rates are made a lien against the property to provide for nonpayment for sewage and other related services, such lien to be liened and collected against the property in the name of the owner, reputed owner, occupier, mortgagee, or anyone beneficially interested therein as claims are liened and collected under the Municipal Claims Law of the Commonwealth of Pennsylvania.
- 10.5 TERMINATION OF WATER SERVICE FOR NONPAYMENT OF SEWAGE SERVICE BILL - The water service will be terminated for nonpayment of sewage service bills in premises receiving both water and sewage service, even though the bills for water service are paid, the premises being subject to monthly charges regardless of such termination.
- 10.6 CHARGES FOR SEWAGE SERVICE - All bills for sewage services furnished by the Authority will be based on the published Schedule of Rates of the Authority, the charges to be based on the quantity of water used on or in said premises as the same may be measured by meters in use or other meters to be installed, or based on the number and type of fixtures, or based on flat rates, or based on unit charges, or such other methods, all as approved subject to conditions and to the requirements and rates set forth in the Schedule of Rates for each individual district and, in general, in accordance with the following:
- 10.6.1 Normal Charges - Each premises will be subject to a fixed minimum monthly user charge for sewage services and billed normally on a water use or flat rate basis. The minimum charge shall be nonabatable for nonusers of water, and noncumulative against subsequent use. In the case of fractional bills covering less than a month, monthly or minimum charges shall be prorated. The Authority may, at its option, adopt the "Unit Charge", or other methods as a basis of normal billing.
- 10.6.2 Multiple Billing - The charge for sewage service in all cases where water use is the basis of charges and more than one premises is served through one building sewer shall be determined in accordance with the general procedures set forth with respect to Multiple Billing.
- 10.6.3 Unit Charges or Flat Rate Charges - The Authority may, at its option and as set forth in the Schedule of Rates, bill on the basis of unit charges or flat rate charges for sewage services in accordance with the following and the Schedule of Rates:
- a. Residential - Individual - Subject to a single unit charge or flat rate per premise.
 - b. Residential - Multiple - Served by a single sewer service line, such as apartment and multiple type dwelling or similar type of building or occupancy; subject to a unit charge flat rate for each residential premises therein.

Rules and Regulations Governing Sewage Service - continued

- c. Non-Residential - Subject to number of unit charges or flat rate charges as determined by one of the following methods, the method to be used being subject to the option of the Authority.

1. Method 1 - $1 \text{ EDU} = 90 \text{ gpdpc} \times 2.6 \text{ persons per household} \times 365 \text{ days/year} = 85,410 \text{ gallon per year}$.

The number of EDU's for Non-Residential metered customers shall be calculated annually, based upon actual metered water consumption for the prior 12 months. Each Non-Residential customer shall be billed, as a minimum, as one (1) EDU. For Non-Residential metered customers whose annual water consumption computes to greater than one (1) EDU, the calculated number of EDU's to be billed shall be rounded up to the next 1/5 of an EDU.

The number of EDU's for Non-Residential unmetered customers shall be calculated at the time of sewer service application. Each Non-Residential unmetered customer shall be billed, as a minimum, as one (1) EDU.

2. Method 2 - The number of unit charges under this method shall be equal to the total quantity of water in gallons used, as determined by meter or other suitable method, divided by such factor or number of gallons as set forth in the Schedule of Rates. This method may be subject to total water used or to measurement of only such water as enters the sewer, the cost of metering to determine such flows to be subject to requirements previously set forth, all facilities required for such metering to be installed at the cost of the owner and/or occupant.
3. Method 3 - The number of unit charges under this method will be equal to the man-days of employment in a commercial or industrial concern divided by such factor as set forth in the Schedule of Rates.
4. Method 4 - Per Person Basis Charges - The Authority may, at its option, charge for sewage service on a per person or per student basis for commercial, industrial and school premises.
5. Method 5 - Miscellaneous - The Authority, under this method, may establish miscellaneous methods for basing unit charges.

- 10.6.4 Surcharge for Certain Industrial Wastes - The Authority will exercise the right to levy and assess against applicable premises a surcharge, or surcharges, for the handling and treatment of abnormal industrial, commercial and other such wastes. The surcharge represents an apportionment of the cost for handling an excess load imposed on the sewage treatment plant by wastes stronger than normal sewage and of the

Rules and Regulations Governing Sewage Service - continued

additional costs of maintaining and operating the public sewerage system. The basis of such charges shall be as set forth in the Schedule of Rates.

The surcharges will be added to the normal sewage service charge and shall be subject to the same penalties applicable to other charges.

The strength of wastes subject to a surcharge, or surcharges, shall be determined periodically by the Authority. The frequency and duration of the sampling period shall be subject to determination by the Authority, and shall be such as will permit reaching reasonably reliable conclusions as to the average composition of such wastes, exclusive of storm water run-off, if any. The manholes or other facilities required for sampling shall be constructed at the cost of the owner and/or tenant, and shall be constructed as previously set forth.

The samples will be collected by a representative of the Authority, such samples to be collected in proportion to the flow of wastes, exclusive of storm water runoff, if any, and to be composited for analysis. The procedures and analyses will be in accordance with the latest edition of Standard Methods for Examination of Water and Sewage, as published by the American Public Health Association.

The characteristics and strength of the wastes, as determined by analyses, shall be used to determine the applicability of the surcharge, or surcharges, and used as bases for establishing the amount of the surcharge or surcharges. The Authority exercises the right to assess the costs of conducting flow measurements, and making the chemical and other tests against the owner and/or tenant of the premises.

The Authority may, at its option, accept the results of routine sampling and analyses by the producer of said wastes.

SECTION 11. GENERAL

- 11.1 **INSPECTION** - Authorized employees of the Authority, identified by proper badges, shall have access to the customer's premises at all reasonable hours for the purpose of turning the water on or off; inspection, repair and/or replacement of service lines, service line extensions, building sewers, manholes and other appurtenances; inspection, setting, reading, repairing and removal of meter; observation, measurement, sampling and testing of sewage or industrial wastes; and all such justifiable purposes.

The Authority shall have the power to make such excavations as are required for the proper execution of the work.

- 11.2 **TURN-ON CHARGE** - A turn-on and turn-off charge, currently in effect, shall be paid when water has been turned off because of an unpaid sewage bill; for violation of the terms of the application or rules of the Authority; or at such times as service has been

Rules and Regulations Governing Sewage Service - continued

suspended at the customer's request, the charges to be in accordance with the water utility's Schedule of Rates.

- 11.3 INTERFERENCE WITH AUTHORITY'S PROPERTY - No workmen, owner or tenant, or other unauthorized person shall turn the water on or off at any corporation cock or curb stop, or break the seals, disconnect or remove the meter, or otherwise interfere with the Authority's property, or do work on service line connections, service line extensions, building sewers and such other facilities, except in accordance with requirements as previously set forth.

For unauthorized operation of street valve, curb stop, service cock or other portion of the service installation or building sewer installation, the person owning the premises served by the line connected to said street valve, curb stop, service cock or other service connection shall be required to pay \$25.00 and any costs required in connection with damage to these facilities.

No unauthorized person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance or equipment which is part of the Authority's sewage facilities. Any person violating this provision of these Rules and Regulations shall be subject to immediate arrest under charge of disorderly conduct.

- 11.4 ONLY RULES BINDING - No agent or employee of the Authority shall have the power to bind the Authority by any promise, agreement or representation not provided for in these Rules without the approval of the Board of the Authority.

- 11.5 SERVICE OF NOTICES - All notices and bills relating to the Authority or its business shall be deemed to have been properly served if left upon the premises of the customer or, if mailed to the customer, directed to or left at his address as shown on the records of the Authority.

The Authority will send all such notices and bills to the address given on the application for service until a notice of change, in writing, has been filed with the Authority by the applicant.

All notices of general character affecting or likely to affect a large number of customers, shall be deemed to have been properly given or served if advertised in the newspaper designated by the Authority.

The Authority will send notices and bills with respect to nonpayment of bills by tenants to the owner of the property involved, such owners being responsible for payment thereof.

- 11.6 COMPLAINTS - Complaints relative to the character of the service furnished or the reading of meters or of bills rendered must be made in writing and delivered to the main office of the Authority.

Rules and Regulations Governing Sewage Service - continued

- 11.7 SERVICE NOT GUARANTEED - Nothing in these Rules, nor any contract, nor representation, verbal or written, of the Authority or any of its employees shall be taken or construed in any manner to be or constitute a guarantee to furnish service through any building connections, or to provide unreasonable sewer capacities or facilities, whether for domestic, commercial, industrial, manufacturing or other general uses, or for any other special purposes; but the Authority will, at all times and under all conditions, endeavor to maintain the efficiency of its service.
- 11.8 RESTRICTION OF SUPPLY - The Authority reserves the right to restrict the use of sewers as to capacity and character of sewage.
- 11.9 PENALTIES - Any person found to be violating any provision of these Rules and Regulations shall be served by the Authority with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations.

Any person who shall continue any violation beyond the time limit provided for in the above shall be guilty of a misdemeanor and, upon conviction thereof, shall be fined in an amount not exceeding \$100.00 for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Any person violating any of the provisions of these Rules and Regulations shall become liable to the Authority for any expense, loss or damage occasioned the Authority by reason of such violation.

SECTION 12. APPROVAL OF SANITARY SEWERAGE SYSTEMS

- 12.1 GENERAL - No sewers shall be extended from the sewers of the Authority and no sanitary sewerage systems and/or treatment facilities shall be constructed or such other work done without approval first having been obtained from the Authority, permits obtained from the Pennsylvania Department of Environmental Protection, and permits, licenses and/or approvals obtained as required from all Federal, State, County and local agencies.

The work shall be done in accordance with these Rules and Regulations and those of the Authority, and other applicable requirements. Any work in areas other than the service area of the Authority involving the facilities served by the Authority and/or facilities extended from the said service area into adjoining municipal subdivisions shall be in accordance with the aforesaid requirements and any higher standards as established by the municipal subdivision in which the work is located.

The applicant must enter into an agreement with the Authority providing for all conditions upon which approval will be granted, including conveyance to the Authority of all sewerage facilities and sewage treatment plants, if any.

The applicant must prepare at his cost all Contract Plans and Specifications, rights of way plans and Contract Documents, and prepare at his cost other material such as is

Rules and Regulations Governing Sewage Service - continued

required to obtain all permits, licenses and/or other approvals, and prepare the applications relative thereto and shall pay all fees.

The plans and reports shall be stamped with the seal of a Registered Professional Engineer.

SECTION 13. LAWS AND REGULATIONS RELATIVE TO SEWERAGE

- 13.1 **GENERAL** - The construction of all sewerage and sewage treatment plant facilities shall be subject to the owner and/or developer obtaining at his cost all permits and approvals required by Federal, State, County and other agencies.

No applications for such permits shall be submitted until preliminary approval of the project is obtained from the Authority.

- 13.2 **STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION** - The requirements of the State under the Clean Streams Law, administered by the Pennsylvania Department of Environmental Protection, in accordance with Act Number 394 of the General Assembly of Pennsylvania, approved June 22, 1937, and subsequently amended, are of great importance and provide as follows:

"Approval of Plans, Designs and Relevant Data by the Department of Environmental Protection. All plans, designs and relevant data for the construction of any new sewer system, or for the extension of any existing sewer system, by municipality, or for the erection, construction and location of any treatment works or intercepting sewers by a person or municipality, shall be submitted to the Department of Environmental Protection for its approval before the same are constructed or erected or acquired. Any such construction or erection which has not been approved by the Department by written permit, or any treatment works not operated or maintained in accordance with the Rules and Regulations of the Department, is hereby also declared to be a nuisance and abatable as herein provided."

Because permits can generally only be issued to municipalities, agencies of the municipalities or public utilities, all permits for the construction of new sewerage facilities by private developers or other private interests must be obtained in the name of the Authority, the agency responsible for public sewerage in the incorporating municipalities.

- 13.3 **STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION** - The installation of any facility in, along, across or projecting into all streams and bodies of water of the Commonwealth must be approved by a permit to be obtained from the Department of Environmental Protection prior to actual construction.

- 13.4 **STATE DEPARTMENT OF TRANSPORTATION** - For the installation of facilities or work within the right of way of any public roadway, the Pennsylvania Department of Transportation requires that a Highway Occupancy Permit be obtained from that Department.

- 13.5 U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) - OSHA requires that all sewer construction conform to the Regulation for Excavation and Construction of the U.S. Department of Labor, OSHA. These regulations govern, essentially, safety requirements of construction or excavation, particularly as to bracing, shoring and sheeting of trench excavation. All construction shall conform to OSHA excavation standards.
- 13.6 AUTHORITY AND OTHERS - All procedures and work must be in accordance with all applicable ordinances and regulations of the incorporating municipalities, all Rules and Regulations of the Authority and others where required and not specifically listed herein.

The work and plans relative to sewerage must be correlated with all subdivisions of the incorporating municipalities and other ordinances and regulations.

SECTION 14. APPLICATION FOR APPROVAL OF SANITARY SEWERAGE SYSTEMS AND GENERAL REQUIREMENTS RELATIVE THERETO

A written application on the forms furnished by the Authority, unless otherwise indicated, must be submitted for the purpose of requesting approval of a sewer line extension, sanitary sewerage system, including pumping stations and treatment facilities, and/or other work, and the obtaining or furnishing sewage service therefrom.

This application is to be signed by the owner or owners, to be subject to the terms and conditions set forth and included herein and Authority requirements, and to the execution of an agreement; and this application, together with the Rules and Regulations of the Authority, shall regulate and control all facilities and sewage service.

All applications for sewage service must be accompanied by all plans, documents, reports and other required materials as set forth herein.

The submission of the application must be in strict accordance with the Rules and Regulations of the Authority.

SECTION 15. PROCEDURE FOR SUBMITTAL OF REPORTS AND PLANS

- 15.1 GENERAL - The applicant shall submit preliminary plans and reports to the Authority for general review and recommendations and then prepare and submit applications, final plans and reports for approval.

The general design of all proposed sewerage facilities shall be in complete compliance with the requirements of the State Department of Environmental Protection and all applicable Rules and Regulations of the Authority and the incorporating municipalities, and approved by the Authority's Engineer.

- 15.2 PRELIMINARY PLANS - The applicant shall submit preliminary plans and reports, in triplicate, in accordance with the following:

Rules and Regulations Governing Sewage Service - continued

- a. A formal letter of request for review and recommendations.
- b. An engineer's report setting forth a full description of the proposed system and setting forth the basis of design.

The report must include a statement and description of the extent of area which it is proposed to include within the system at the present time and in the future; the estimated present and future population to be served; the estimated per capita rates or volume of sewage to be provided for; the general character of the sewage and the proportion and nature of any industrial wastes; and such other data and information.

Where industrial wastes are involved, all applications for service, regardless of location of the premises, must be accompanied by a detailed report setting forth the quantities and character of the wastes, the proposed rates of discharge and such other facts as required.

The report must include a detailed summary relative to the drainage areas and areas to be served; of the sewerage system, showing sizes of sewers, distances between manholes, grades, capacities and future ultimate flows in main and intercepting sewers; and, if treatment facilities are to be constructed, showing dimensions, sizes, capacities and all pertinent data relative to each unit, types and capacities of all equipment, general plant and operating descriptive data, total plant capacities and such other data; and, if pumping stations are to be constructed, the type, head and capacities of pumping equipment, the type and size of motors, types and capacities of comminuting equipment and screens, descriptions of other equipment, sizes, capacities and other data relative to wet and dry wells, descriptions of operation and other data.

- c. Preliminary plans showing the following:

Sewers - Layout of all sewers and manholes, showing sizes, distances between manholes, grades, type of sewers and approximate invert elevations of all manholes. Design features should be submitted at least in sketch form for special conditions, inverted siphons and such other features.

Pump Stations and Treatment Plants - Plans showing property lines, general plant layout, dimensions, types and sizes of all equipment, hydraulic profile and other pertinent features.

- d. Outline specifications for pumping stations and sewage treatment plants and description of proposed materials and equipment.

15.3 FINAL PLANS AND REPORTS - The applicant shall submit five copies of final plans and reports and other required items, all in accordance with the following:

Rules and Regulations Governing Sewage Service - continued

- a. A formal letter of request for final approval, preparation of an agreement, and such other actions as are required.
- b. An engineer's report setting forth the information and data required in the preliminary report and, if no revisions or additional data are required, the preliminary report may be suitable as the final report.

In addition, the applicant shall prepare all application forms, modules, reports and such other data as required by the Pennsylvania Department of Environmental Protection.

- c. All applications, plans, exhibits and supporting data required for submittal to all agencies having jurisdiction in order to obtain licenses, permits and approvals.
- d. Final plans prepared by a qualified Registered Professional Engineer showing the following:

Sewers - These plans must show the boundary line of the municipality or sewer district to be provided sewers; all existing and proposed streets, watercourses and other salient topographic features; contour lines for intervals of not less than five nor more than ten feet; and the surface elevations at street intersections and at points where changes of slope occur. The plans must show clearly the locations of all existing sanitary and combined sewers, but need not show the locations of drains used exclusively for surface or subsoil water.

If it is proposed to provide sewers for only a part of the natural or artificial drainage areas, there must be indicated upon the plans how it is proposed, in general, to provide sewerage for each of the drainage areas in which it is not at the time planned to provide sewers. In the case of sewer extensions, the plans need show only the section wherein sewers are to be extended.

In all cases the plans must clearly show the size of the sewer, the character of the sewer material, the slope, the elevation at the location of all points of change of slope, the direction of flow, the location of all manholes, flushing manholes, inverted siphons, pumping stations, the elevations of all stream beds, the direction of stream flow, the high and low water elevations of all water surfaces, and such other data and show all profiles.

The detailed plans shall include plans of all sewers and regular and special sewer appurtenances, structures of all types and such other features.

Pumping Station and Treatment Plants - These plans shall be complete, detailed plans of all phases, including architectural, general, structural, mechanical, plumbing, heating and ventilating, electrical and other work, prepared in accordance with sound engineering practice. These plans shall

Rules and Regulations Governing Sewage Service - continued

show property lines of all sites, existing and proposed connections, existing and proposed utilities, roadways, drainage facilities and all physical features.

The plans shall provide for complete fencing of all pumping stations and treatment plants and other such facilities.

- e. Complete detailed specifications for all work and other contract documents.

- 15.4 PLAN PREPARATION - All final plans must be uniform in size and in accordance with requirements set forth in the Sewerage Manual of the State Department of Environmental Protection and of the Authority.

The plans shall be prepared on sheets 24 by 36 inches in size, with a one-inch border on the left side and a 1/2-inch border on all other sides. A 3- by 5-inch title block shall be located in the lower right hand corner.

The general plan shall be on a scale not smaller than 300 feet to 1 inch, preferably, and not more than 100 feet to 1 inch. All other plans shall be drawn to a scale to permit all necessary information to be shown plainly. Sewer profiles shall be on a horizontal scale of not more than 50 feet to the inch and a vertical scale of not more than 10 feet to the inch, and plan views of sewers shall be drawn to the same scale as the profile view.

- 15.5 AS-CONSTRUCTED PLANS - Subsequent to completion of the work, the applicant shall submit as-built plans to the Authority. No service will be furnished or permitted to be furnished until these plans are submitted.

- 15.6 MATERIAL SPECIFICATIONS - All sanitary sewer lines shall be furnished and installed in accordance with the detailed specifications of the Authority. Some of the pertinent requirements being summarized as follows:

- a. PVC Gravity Sewer Pipe - PVC gravity sewer pipe shall meet or exceed the requirements for Type PSM polyvinyl chloride pipe and fittings, A.S.T.M. Designation D-3034. The pipe and fittings shall have thicknesses, dimensions and properties as described under designation SDR-35. Pipe and fittings shall have elastomeric-gasket, bell-end, push-on joints conforming to the requirements of Standard Specification A.S.T.M. Designation D-3212.
- b. Ductile Iron Pipe - Where specifically required, ductile iron pipe shall be furnished and installed. Ductile iron pipe shall be Special Class 52 ductile iron pipe meeting the requirements of A.W.W.A. Standard C151. The interior of all ductile iron pipe shall have an H₂S resistant lining.
- c. Manholes - Manholes shall be precast concrete meeting or exceeding the requirements of Standard Specifications for Precast Reinforced Concrete Manhole Sections, A.S.T.M. Designation C478. All manhole wall sections will be four feet inside diameter. The top section shall be an eccentric cone

section with a clear opening of at least 27 inches in diameter. Preformed flexible plastic gasket shall be used to seal the joint between manhole sections. At each pipe opening an integral rubber gasket shall be used.

- d. Frame and Cover - Each manhole shall be fitted with a cast iron frame and cover, meeting the requirements of A.S.T.M. Standard Specification for gray iron castings, A48 Class 30B.

SECTION 16. RESPONSIBILITY FOR COST

The cost of all sanitary sewage systems and related costs shall be borne by the applicant requesting approval thereof.

The cost of such work shall include the following:

- a. The cost of all sewer lines, of the sizes required for the project, none to be less than 8 inches in size, of all manholes and other sewer appurtenances, and of all pump stations and other work.
- b. The cost of connections to existing sewers.
- c. The cost of all treatment facilities, if required and approved, of all grading, landscaping, fencing and other work.
- d. The cost of all land and rights of way, the rights of way and land to be conveyed to the Authority.
- e. The cost of obtaining all permits, licenses and such other approvals.
- f. The payment of a minimum of 15 percent, subject to the size and type of facilities, of the total construction costs to defray all legal, engineering and overhead costs, if the project is to be designed and constructed by the Authority. All such costs in excess of 15 percent must be borne by the applicant. If the project is designed and constructed by the applicant, the applicant must pay the Authority costs involved in the review of the Contract Plans and Specifications, field work, if any, legal work, administrative and such other costs in connection with the project.
- g. The cost of a resident engineer or inspector furnished by the Authority to supervise and/or inspect construction of the project or projects, such costs to be the per diem rate currently in effect plus mileage costs and expenses. Deposits shall be made in advance for two months' estimated costs and continued each two months until completion of inspection work, such costs to be adjusted as required at the end of each period.
- h. The payment of all tapping, sewage treatment and other fees.
- i. Such other costs.

SECTION 17. AGREEMENT

17.1 **AGREEMENT** - The applicant shall enter into an agreement with the Authority prior to final approval and the execution of any work, the agreement to contain such pertinent conditions as the following:

- a. The cost of all work to be borne by the Owner, except as otherwise indicated.
- b. The materials and workmanship to be in accordance with the requirements of the Authority.
- c. The highways, streets, alleys and lanes in which sewer extensions are to be located must be dedicated to public use, the lines and grades thereof established, and the rough grading completed.
- d. The ownership title to all installations to be conveyed to and vested in the Authority, including land and easements, sewer systems, all related facilities, pumping stations, treatment plants and treatment facilities of any type, and all other related facilities.
- e. The Authority to have the right to make further extensions beyond or laterally from all sewers, such extensions not to be considered as connections subject to any refund, and the right to enlarge or improve sewage treatment facilities.
- f. The payment of refunds, at the option of the Authority, with respect to the sewer to the owner for additional new customers abutting on and connected directly to the lines installed to be subject to such conditions as set forth herein or as agreed upon, and to a limited number of years. No refunds are to be made unless from monies received from other customers for the privilege of obtaining service from the extension.
- g. The guarantee for operation of pumping stations and sewage treatment plants by the applicant until (a) the satisfactory operation of the facilities are assured, (b) at least 50 percent of the design capacity is connected, or (c) revenues are sufficient to cover operating and administrative costs, whichever requirement is the most stringent, the Authority to exercise the option to reimburse the applicant net rentals during the period of his operation of the facilities.
- h. The applicant to provide permanent 20-foot easements or the width as required in all plans of lots for all sanitary sewers, and for future extensions as required by the Authority. For sewers to be constructed outside the limits of a subdivision plan, the applicant shall obtain all required permanent easements at least 20 feet in width. All easements shall be obtained and provided at the cost of the applicant and conveyed to the Authority prior to requesting final approval of the work.

Rules and Regulations Governing Sewage Service - continued

- i. To provide all insurance, bonds and other such items as required by the incorporating municipalities with respect to municipal improvements, including sewerage and the requirements of the Authority.
- j. Such other related requirements.

SECTION 18. CONSTRUCTION SPECIFICATIONS

- 18.1 **GENERAL** - The design, installation and construction of all sewers, pumping stations, sewage treatment plants and other related facilities shall be in strict accordance with the Standards of Construction and Specifications as established by the Authority, with all applicable requirements of the incorporating municipalities and as reviewed by the Consulting Engineer for the Authority.
- 18.2 **INSPECTION OF CONSTRUCTION** - All construction of sewerage facilities in the service area of the Authority shall be subject to inspection by representatives of the Authority during the progress of the work to assure that such construction is accomplished in accordance with the approved Plans and Specifications, the costs of such inspection to be borne by the applicant.

At least ten days prior to starting construction, the applicant shall notify the Authority of the anticipated starting date of his proposed construction and the schedule of operation through completion of the project. At the time of this notification, a meeting shall be arranged between the applicant, the construction foreman and representatives of the Authority to completely review all aspects of the construction project, prior to commencing with construction. No construction shall be permitted without such a meeting.

Upon completion of the construction work, a detailed final inspection shall be made by the Authority to determine that the completed facilities shall have been constructed in accordance with the approved Plans and Specifications. Approval will not be given by the Authority until all discrepancies and deficiencies revealed by this final inspection have been satisfactorily corrected. Inspection fees as outlined herein and in the Rules and Regulations of the Authority and incorporating municipalities shall be paid by the applicant, as previously indicated.

SECTION 19. BONDS AND INSURANCE

- 19.1 **GENERAL** - The applicant shall be responsible for furnishing, at his cost, all bonds and insurance required under the Rules and Regulations and Standards of the Authority and the incorporating municipalities, including a Performance Bond, insurance and such other items.

The applicant shall, in all instances, agree for himself, his heirs, executors, administrators, successors and assigns to maintain all the work done under this Contract in good condition for the period of two years from the date of final acceptance of the same, the Authority being the judge of the condition of the work; and upon the acceptance of the completed work and before the Surety which has furnished the

Rules and Regulations Governing Sewage Service - continued

Performance Bond is released, the applicant shall furnish a Maintenance Bond of an acceptable Surety Company in the full amount of the final cost to the Authority, or in a lesser amount if so approved by the Authority.

APPENDIX A

**INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY
SANITARY SEWERAGE SYSTEM
SEWAGE RATE SCHEDULE
DECEMBER 2010**

SEWAGE RATES

Residential Rate

Monthly Flat Rate per Premise: **\$55.00**

Non-Residential Rate

Monthly Flat Rate: **\$55.00 per EDU**

1 EDU = 90 gpdpc x 2.6 persons per household x 365 days/year = 85,410 gallons per year

The number of EDU's for Non-Residential metered customers shall be calculated annually, based upon actual metered water consumption for the prior 12 months. Each Non-Residential customer shall be billed, as a minimum, as one (1) EDU. For Non-Residential metered customers whose annual water consumption computes to greater than one (1) EDU, the calculated number of EDU's to be billed shall be rounded up to the next 1/5 of an EDU.

The number of EDU's for Non-Residential unmetered customers shall be calculated at the time of sewer service application. Each Non-Residential unmetered customer shall be billed, as a minimum, as one (1) EDU.

INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY

34 Campbell Street, P.O. Box 156, Avella, PA 15312

Telephone (724) 587-3518 Fax (724) 587-5988

February 1, 2011

Owner's Name
Owner's Address

Subject: Notice to Connect to Sanitary Sewer System
Tax Map-Parcel I.D. No. _____

The Authority's new sanitary sewer lines are installed and operational at this time. You are hereby notified to commence connection of the premises at the above referenced property to the new sanitary sewer line. Ordinance No. 06-01 of Independence Township and Ordinance No. 4-05 of Cross Creek Township requires connection to the new sanitary sewer line and discontinued use of present methods of discharging sanitary wastes. This connection must be made within a period of one hundred twenty (120) calendar days from the date of this notification.

If you have not previously completed the Application and Agreement for Sanitary Sewer Service, you will need to provide a completed application form (enclosed herein) to the Independence-Cross Creek Joint Sewer Authority office. Your tap-in fee will also need to be paid. If you have not already paid a tap-in fee, you will be required to pay the current tap-in fee at the time of connection. Enclosed with this letter is a sketch of your service wye and end-of-lateral location. If extenuating circumstances prevent you from making connection within the 120-day period, you must notify the Authority in writing and request a time extension stating the need and justification for the time extension. Each request will be reviewed by the Authority on a case-by-case basis and will not be automatically granted.

Charges for sewer service will begin on April 1, 2011, regardless of time extensions or the actual physical connection date.

Sewage Rates:

Residential Rate – Monthly Flat Rate per Premise = \$55.00.

Non-Residential Rate – Monthly Flat Rate = \$55.00 per EDU.

1 EDU = 90 gpdpc x 2.6 persons per household x 365 days/year = 85,410 gallons per year.

The number of EDU's for Non-Residential metered customers shall be calculated annually, based upon actual metered water consumption for the prior 12 months. Each Non-Residential customer shall be billed, as a minimum, as one (1) EDU. For Non-Residential metered customers whose annual water consumption computes to greater than one (1) EDU, the calculated number of EDU's to be billed shall be rounded up to the next 1/5 of an EDU.

The number of EDU's for Non-Residential unmetered customers shall be calculated at the time of sewer service application. Each Non-Residential unmetered customer shall be billed, as a minimum, as one (1) EDU.

You have the choice of constructing your own sewer service lateral or hiring a contractor/plumber to perform the work. The Authority does not recommend or endorse any of the available contractors/plumbers. If you need assistance in finding a contractor/plumber, however, the Authority has contact information available for contractors who are offering their services. Installation of your sewer service lateral will follow the connection procedures and sketch enclosed with this letter. You must leave the installed service lateral completely uncovered until inspection can be made by one of the Authority's inspectors. The inspector is: Mr. Larry Moore - 724/948-3567 or 412/580-6015 and Mr. Butch Kearns - 304/670-3707. You must notify the inspector at least 72 hours in advance to schedule the required inspection. The Authority's inspector will inspect your installation, witness the testing of your sewer service line, witness your connection to the service lateral and witness the backfilling of your sewer service line. You may begin to use your new sewerage facilities at that time.

If you have any questions or need assistance, please contact the Independence-Cross Creek Joint Sewer Authority office at 724/587-3518 between 8:00 a.m. and 5:00 p.m. Monday through Thursday, or 8:00 a.m. to 10:00 a.m. on Fridays.

INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY

APPLICATION AND AGREEMENT FOR SANITARY SEWER SERVICE (Applicable to all classes of service)

Customer Account No. _____

INSTRUCTIONS

PLEASE PRINT. Complete the entire agreement. "Applicant" is each adult person who will receive the benefit of service at the premises described. If the household includes a husband and wife or two persons living together, the names of both persons must be provided, including wife's maiden name. Each applicant agrees to be jointly and severally liable for the bills rendered for service as a result of this application. It is understood that the rates, terms, rules and regulations applicable to the service supplied hereunder are set forth in the Authority's rates and regulations, as may be published from time to time and are made part of this application. This application constitutes an agreement between the applicant and the Authority for sanitary sewerage service to be provided by Independence-Cross Creek Joint Sewer Authority.

1. APPLICANTS TO BE BILLED	Name (First, Initial / or maiden /, Last)	
	Name (First, Initial / or maiden /, Last)	
	Name (First, Initial / or maiden /, Last)	
	Service Address	
	Mailing Address	Phone No. (include Area Code)
2. PREMISES	<input type="checkbox"/> Owned <input type="checkbox"/> Rented Municipality	
3. LANDLORD, OWNER OR RENTAL AGENCY	Name	Length of Lease
	Address (Street, City, Zip Code)	Phone No. (include Area Code)

Applicants acknowledge they have read the above application, understand it, have made truthful answers thereon, are jointly and severally bound for service rendered by the Authority.

8. SIGNATURES	Applicant	Applicant	Applicant
	Date	Date	Date

When application is made by someone other than the owner, the owner shall co-sign the application and shall guarantee payment for service.

Landlord Signature _____ Date _____

Authority Representative _____ Date _____

Landlord Identification _____



BANKSON ENGINEERS, INC.
Consulting Engineers
267 Blue Run Road, Suite 200, Cheswick, PA 15024
Phone: (412) 767-5100 Fax: (412) 767-5107

BUILDING SEWER WYE TYPE CONNECTION
General Information



Client

Project Name

Contract Number

Contractor

Tax Map No.

Property Owner

Mailing Address

Address of Property Served (if different)

Lessee (if any)

Survey Station _____ + _____

Size Wye

Date Installed

Recorded By

Number of Bends Used

L.F. 6-inch Pipe

V.F. 6-inch Riser

Pipe Material

Connection Bldg. Sewer

Pipe Manufacturer

Connection Bldg. Sewer

Depth of Wye

Depth at End

L.F. 6-inch Building Sewer Installed

Date Building Sewer Installed

Recorded By

Miscellaneous Comments:

See Contract Drawing Number

Building Sewer Connection - Locate end accurately by distances to at least two building corners or permanent features as reference points. LABEL house number and all references.

INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY

**34 Campbell Street
P.O. Box 156
Avella, PA 15312**

**Telephone (724) 507-6464
Fax (724) 587-5988**

July, 2013

SEWER CONNECTION PROCEDURES

You must submit a completed Application and Agreement for Sanitary Sewer Service to the Independence-Cross Creek Joint Sewer Authority. The office hours are Tuesday and Thursday from 9:00 a.m. to 4:00 p.m. You must also pay your Tap Fee to the Independence-Cross Creek Joint Sewer Authority.

After completion and submittal of your application, you may proceed with the installation of your sewer service line in accordance with the attached installation diagram.

If there is more than one occupied building on a lot, each building will require a separate lateral.

You or your contractor/plumber will notify the Independence-Cross Creek Joint Sewer Authority to schedule an inspection and to witness the pressure test prior to backfilling the trench. Notice shall be given at least 72 hours prior to making the connection. You or your contractor/plumber will make the actual sewer connection and perform the test in the presence of the Authority personnel. Connections are to be made to the sewer lateral provided for you by the Authority's sewer line contractor.

Upon approval by the Authority of the installation and testing, you or your contractor/plumber will backfill and cover the sewer service lateral, and you may begin to use your new sanitary sewer.

OTHER IMPORTANT INFORMATION

Sewer lateral pipe and fittings will be either four-inch or six-inch diameter, SDR 35, polyvinyl chloride sewer (PVC) solid wall pipe, with rubber elastomeric gaskets. Pipe inside the building may be Schedule 40 PVC solid wall pipe with glued joints.

Fittings will be required at all bends. A trap with a vent, a cleanout and an inspection port will be required. The new line will be laid at 1/4-inch per foot (2%) slope or greater for 4-inch pipe. Any over-excavation of the trench shall be backfilled with sand or PennDOT #2B coarse aggregate for proper bedding.

All bathroom, kitchen, sink and laundry fixtures must be connected. The Authority will not accept groundwater, rain water or storm water. Downspouts, french drains, basement sump pumps, which discharge rain water, storm water or ground water, or roof gutters are not allowed to be connected. Any person found to be violating this part of the Ordinance will be fined and prosecuted to the full extent allowable, together with costs of prosecution. No connections are permitted to open jointed pipes or pipes that do not pass a pressure test in accordance with International Plumbing Code Section 312 and Section 703.4. The vent cover shall be located at least one foot (1') above the 100-year flood level or ground surface. All establishments which discharge grease or oil, such as restaurants, etc., shall install an appropriately sized grease trap. All establishments which discharge grit or sediment, such as a car wash, etc., shall install an approved sediment and grit trap.

Backflow valves are required as per applicable codes for all connections subject to sewer backups or where the cover of the next upstream manhole on the public sanitary sewer is at an elevation above the plumbing fixtures, as per International Plumbing Code Section 715.1. Backflow valves are owned and maintained by the land owner. The Authority accepts no responsibility for the proper operation or damages caused by malfunctioning of the backflow valves.

A cast iron Valvco, or equivalent, locking sewer cleanout cover is required on the inspection port and at any additional cleanouts.

The customer hereby acknowledges that he shall be solely responsible for the maintenance, upkeep, operation and future repairs to the private sewer service lateral from the dwelling to the tap-in connection at the Authority's sewer lateral. The customer also acknowledges that he shall be solely responsible for all damages caused by malfunction or backup.

Prior to hiring a contractor, we urge you to obtain at least three written estimates from local contractors, along with references. Please check these references carefully, obtain a certificate of insurance from the contractor and confirmation of the Pennsylvania State Contractors License Number for the contractor that you select to complete the work. The Authority cannot recommend specific contractors. You may also construct your own sewer service lateral.

INDEPENDENCE-CROSS CREEK JOINT SEWER AUTHORITY

34 Campbell Street, P.O. Box 156
Avella, PA 15312

RULES AND REGULATIONS FOR THE INSTALLATION OF SEWER SERVICE LATERALS

July, 2013

1. PROCEDURE: The general procedures required in the installation of private sewer service laterals are shown on the attached Drawings and summarized as follows:

Drawing Number 2-579-707-1 – Typical Sewer Service Lateral Installation for Gravity Sewer Connection.

Drawing Number 2-579-737-1 – Typical Sewer Service Line Connection to Grinder Pump Station.

Drawings Numbered 2-579-740-1, 2-579-740-2 and 2-579-740-3 – Typical Sewer Service Line Connection From Grinder Pump to Pressure Sewer Main.

- (a) On the Building Sewer Wye Connection Form provided by the Authority, examine the sketch to determine the location of the service wye for the property to be served. If the sketch is not clear or additional data is needed, visit the Authority office to examine the as-built sewer drawings. Discuss with the Authority Inspector any particular conditions of the proposed construction that requires special attention. The telephone number of the Authority is 724-507-6464.
- (b) Make application, pay tap-in fee and get plans approved as specified in the Authority's Rules and Regulations for Sewer Service.
- (c) Locate and uncover the end of the Authority's service sewer and the building drain at the point connections are proposed prior to any further excavation, determine the elevation of and the required grade between the two points, to assure that the minimum allowed grade can be met.
- (d) Proceed with further excavation between these two points.
- (e) Lay pipe from lateral or service wye, or if none exists, from an approved saddle or other service connection installed by Authority personnel, including inspection port near property line upgrade to near the point of connection to the building sewer. The Authority Inspector shall be notified of the scheduled connection to the Authority's sewer at least 72-hours in advance. Do not connect to the Authority's sewer without the Authority Inspector observing. A cleanout plug and locking cleanout cover, which shall be removable for visual inspection of the building sewer, shall be installed over the top of the inspection port. Care shall be taken to keep the stack vertical so that visual inspection may be completed.
- (f) For grinder pumps, connect power supply from building electric supply panel to grinder electric control panel.

- (g) For both new and existing buildings, no backfill shall be made on the sewer service lateral; it shall be visible for inspection. If the trench has been backfilled, the sewer service lateral will be plugged by the Authority until the trench has been re-excavated and the pipe is visible.
- (h) Request inspection by Authority of exposed piping, in which particular attention will be given to:
 - (1) Installation of a suitable trap or traps on the building facilities. A vented trap and cleanout must be installed within five feet (5') of the building connection. The vent cover shall be located at least one foot (1') above the 100-year flood level or the ground surface and securely fastened to the building, if applicable. The Authority inspector will assist you in determining the appropriate elevation for the vent cover.
 - (2) Facilities for conducting roof drainage away from the building and away from the sanitary sewer and the foundation.
 - (3) Facilities for draining the foundation drain away from the building and the sanitary sewer.
 - (4) Connection of prohibited facilities to the sanitary sewer. Included in these facilities are floor drains, sump pumps, which discharge rain water, storm water or ground water, depressed driveway drains, outside cellar stairwell drains, outside window wells, downspouts, foundation drains, or any facility conducting storm water into the sanitary sewer by any means.
 - (5) The slope of the sewer service lateral to the tee at the inspection port, which shall be 1/4-inch per foot or more if possible for four-inch pipe.
 - (6) Conformance of materials used in the construction of the sewer service lateral.
 - (7) Tightness of joints in pipes and use of mortar or other prohibited materials in joints or open jointed pipe.
 - (8) Operation of grinder pump.
- (i) The property owner shall correct any deficiencies noted by the Authority Inspector in accordance with these requirements.
- (j) Perform pressure test on sewer service lateral and existing building plumbing if being utilized. All pressure tests shall be performed in accordance with International Plumbing Code Sections 312 and 703.4.
- (k) Upon inspection and approval by the Authority, make final connection to the building sewer, this work being accomplished in the presence of the Authority Inspector.

- (l) After approval has been given by the Inspector, the Contractor/Installer shall make the connection at the tap with the Inspector present. Connections to the tap shall be made with an adapter, coupling, reducer fitting or combination thereof. The Contractor/Installer must provide all ditch pumps or whatever is necessary to assure no water, mud, dirt or rock is allowed to enter the tap or lateral. Lateral cap or plug must be saw cut with the Inspector present at time of cutting. Cap or plug will not be pulled off the tap line.
 - (m) At the time of the inspection of the connection, the property owner shall permit the inspector full and complete access to all sanitary and drainage arrangements and facilities in each building and in and about all parts of the property.
 - (n) Backfill.
2. TYPE AND STRENGTH OF PIPE: The gravity sewer pipe between the sewer main or grinder pump and the customer's trap and cleanout at the building shall be ASTM D-3034 SDR 35 PVC solid wall pipe, with rubber elastomeric gaskets and of at least 4" inside diameter. Interior plumbing may be Schedule 40 PVC plastic solid wall pipe with glued joints and of at least 4" inside diameter.

The inspection port and additional cleanout riser pipes shall have solvent weld glued joints.

Proper construction and installation methods must be strictly followed. Bedding and side support shall be either sand (fine aggregate or PennDOT 2B) or AASHTO 57 graded stone (coarse aggregate).

3. MINIMUM PIPE SLOPE: Minimum pipe slope shall be 1/4" per foot (2%) for 4" pipe.
4. CLEANOUTS AND TRAPS: The installation of an outside trap with a vent, a cleanout, and an inspection port on the new service lateral is required. Additional cleanouts shall be installed every 100 feet and at all bends greater than 45°. Cleanouts and the inspection port must extend to the finished ground surface. Inspection ports must have a cast iron cover such as the Valco locking "sewer" cleanout cover, or equivalent, to protect the cleanout/inspection port from damage.

The use of grease traps on all establishments which discharge grease or oil, such as restaurants, etc. is required. Such facilities must have an appropriately sized grease and oil trap. All establishments which discharge grit or sediment such as a car wash, etc. shall install an approved sediment and grit trap. The grease and oil trap, and sediment and grit trap, must be approved in writing by the Authority before installation.

5. PIPE LAYING AND BACKFILLING: Following the trench preparation, pipe laying shall proceed upgrade with the pipes laid carefully, hubs upgrade, spigot ends fully entered into adjacent hubs and true to line and grade. Each section of pipe shall rest upon the pipe bedding for the full length of its barrel with recesses excavated to accommodate bells or couplings. Bedding shall be a minimum 6" of sand or PennDOT 2B or AASHTO 57 graded stone, coarse aggregate. Each pipe shall be firmly held in position so that the invert forms a continuous grade with the invert of the pipe previously placed. The interior

of all pipe and the inside of the bell and outside of the spigot shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of watertight plugs or other approved devices. Under no conditions, shall pipe be laid in water or on subgrade containing frost, and no pipe shall be laid when trench conditions are unsuitable for such work. After the sewer has been installed, inspected and approved, and proper connections made, the area around the pipe shall be carefully backfilled with 12" above pipe with sand or PennDOT 2B or AASHTO 57 graded stone coarse aggregate and the remaining trench may be backfilled with clean earth and tamped with hand equipment to a depth of two feet above the top of the pipe. Tamping of additional backfill above that point is at the discretion of the property owner.

6. CONNECTION TO EXISTING SEWER:

- (a) Connection to both the house plumbing and the end of the service connection shall be with a proper fitting specially manufactured for such use. Under no conditions is it permitted to make a direct connection to the main sewer. In the event there is no service connection available at the required point of connection to the public sewer, the Authority Inspector must be notified to provide the wye saddle connection. Replacement of all wye fittings broken by the property owners or their private contractors shall also only be by the Authority with the costs of such replacement being borne by the property owner.
- (b) Entry of a connecting sewer into a manhole must be approved in advance by the Authority.
- (c) Connection to an existing private sewage system, which uses a septic tank or other such sewage disposal system, must be made between the occupied building and the septic tank or other such sewage disposal system.
- (d) If it is necessary for the property owner to connect to the Authority's existing sanitary sewer, the connection must be made with a wye fitting, sized for the sewer pipe being tapped, cut into the existing sewer, and connected at both ends with two SDR 35 sleeve fittings, or a saddle wye sized for the sewer pipe being tapped, or appropriately sized Insert-a-Tee. Cutting of existing sanitary sewer pipe for installation of the saddle will be performed by Authority personnel only. The property owner will be responsible for excavation prior to cutting of the existing sewer for the saddle. The property owner must contact the Authority office prior to excavation to confirm that the above procedure is understood and to schedule Authority personnel to cut the existing sewer. The phone number of the Authority is 724-507-6464.

7. USE OF EXISTING BUILDING SEWER OR BUILDING DRAIN: The existing building sewer from the building to the septic tank or existing building drain under the building floor can only be used if it can be demonstrated by the property owner to the Authority Inspector that the existing sewer is of proper construction and is watertight and has no illegal connections and passes a pressure test in accordance with International Plumbing Code Sections 312 and 703.4. Inspector may require closed-circuit television (CCTV), exfiltration, low air pressure, or smoke test on the sewer, at property owner's

expense, to determine pipe soundness, including watertightness and presence of illegal connections. No connections to open jointed pipes are permitted.

8. PROHIBITION OF SURFACE AND GROUND WATER CONNECTIONS: Connection of floor drains, sump pumps, roof downspouts, exterior foundation drains, areaway drains, or other sources of surface runoff or ground-water to a building sewer or building drain which in turn is connected directly or indirectly to the public sanitary sewer is strictly prohibited.
9. PROTECTION OF CONSTRUCTION: All excavations for sewer service lateral installation shall be adequately guarded to protect the public from hazard.
10. TESTING: The gravity sewer test to be performed by the landowner or his contractor shall be done in accordance with International Plumbing Code Section 312.6. Gravity sewer tests shall consist of plugging the end of the private sewer service lateral at the point of connection with the public sewer, filling the sewer service lateral with water, testing with not less than 10-foot head of water and maintaining such pressure for 15 minutes, in the presence of the Authority Inspector. In addition to the water testing and where considered necessary by the Authority Inspector, low air pressure test, dye and/or smoke testing of the service line may be required.
11. TIMING: Where a new building is to be constructed and connected to the Authority's system, the connecting sewer must be suitably plugged until the permanent sewer connection is made to preclude any excavation drainage, mud, or debris from entering the Authority's system. The Authority must be notified at least 72 hours in advance of construction.
12. SPECIAL CONNECTIONS: In the event an unusual or difficult type of sewer connection is proposed, the property owner shall submit to the Authority for their approval, a detailed sketch showing type of connection and method of construction. Such connection shall not be made prior to its approval by the Authority.
13. BACKFLOW VALVES: Backflow valves are required as per applicable codes for all connections subject to sewer backup or where the cover of the next upstream manhole on the public sanitary sewer is at an elevation above the plumbing fixtures as per International Plumbing Code Section 715.1. The customer acknowledges that backflow valves are owned and maintained by the land owner. The Authority accepts no responsibility for the proper operation or damages caused by malfunctioning of the backflow valves.
14. RIGHTS OF WAY: The Property Owner is responsible to acquire any Rights of Way needed across private property of others to provide sewer service to the building.
15. GRINDER PUMPS: Grinder pumps shall be E-ONE (Environment One Corporation) Grinder Pump Units complete with control and alarm panel, curb stop, check valve and discharge pipe connector. Power shall be provided from the building power system and connected to the E-ONE grinder control and alarm panel. Upgrades of building power system, if needed, is the responsibility of the building owner.

Startup of the E-ONE grinder pump unit shall be performed by a certified factory representative of E-ONE. The installation and operation of the E-ONE grinder pump unit shall be in accordance with the E-ONE rules and regulations for installation and operation.

E-ONE's rules and regulations regarding sewer use prohibit the discharge of deleterious substances into the sewer system. Sanitary sewer systems are intended to handle primarily domestic or domestic-like wastewater. Prohibited substances must not be discharged into the sanitary sewer system. Also E-ONE recommends that you use liquid laundry and dishwasher detergents versus powdered detergents as they do not always dissolve completely.

The following references describe some of those substances that must not be discharged into the grinder pump and the sewer system. Your cooperation in adhering to these requirements will reduce maintenance costs.

The E-ONE Grinder Pump is capable of accepting and pumping a wide range of materials. The following items **should not** be introduced into any sewer either directly or through a kitchen waste disposal unit:

Glass	Diapers, Socks, Rags or Cloth
Metal	Condoms
Seafood Shells	Sanitary Napkins or Tampons
Egg Shells	Potato Skins

In addition, you must **NEVER** introduce into any sewer:

Explosives	Strong Chemicals
Flammable Material	Straw/Mulch
Gasoline	Lubricating Oil and/or Grease
Abrasives (Sand, Mud, Kitty Litter)	Paint
Plastic Objects (Toys, Utensils, Hypodermic Syringes, Etc.)	

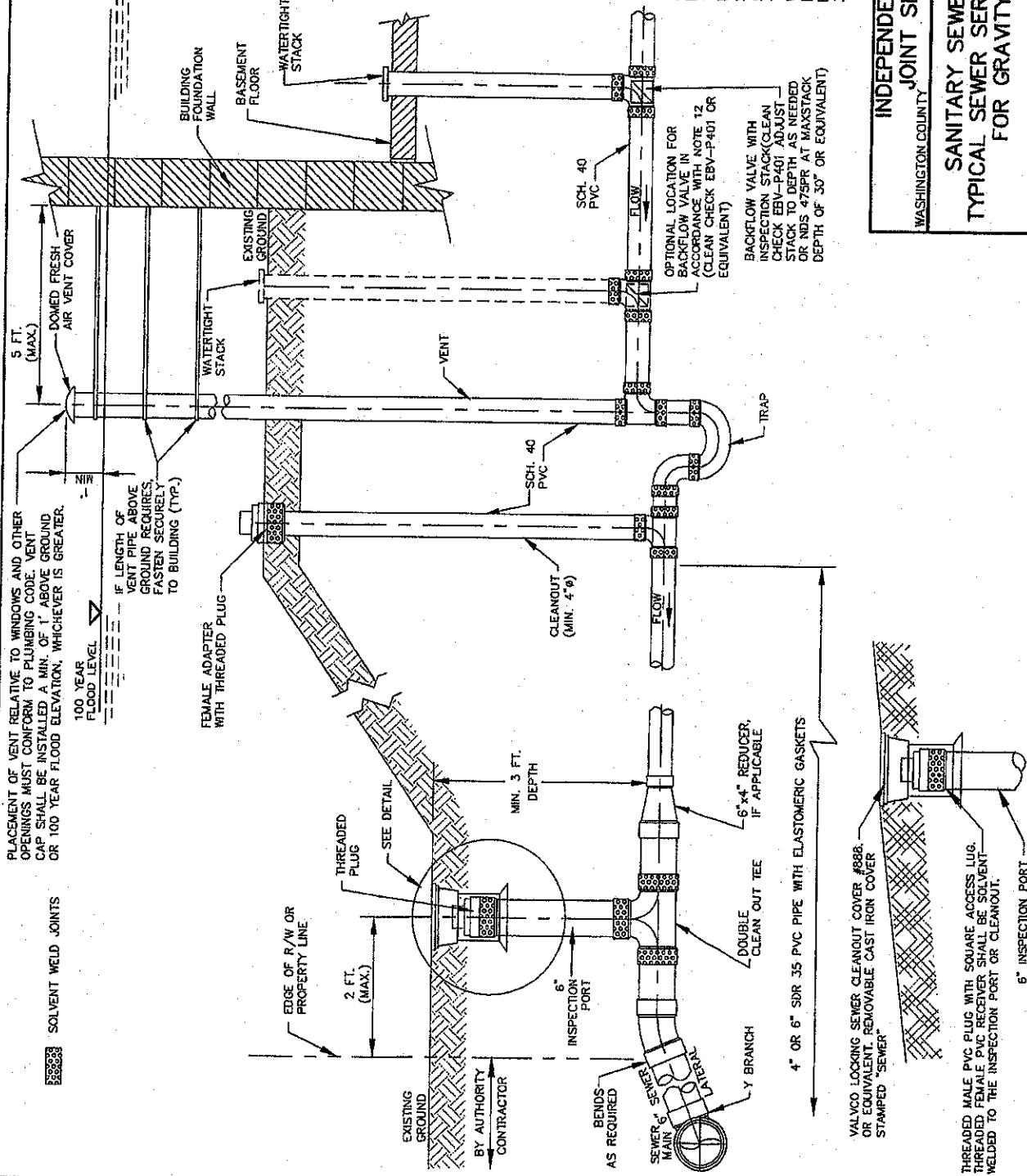
In the event you are going to be away for a prolonged period of time your system should be flushed with clean water. It is recommended that you fill your bath tub two or three times and let that be the last thing to go through your system just prior to leaving.

Please also keep in mind that the grinder pump has to have air to function properly. Therefore, you must refrain from placing landscaping materials too high around the tank. There should be approximately 4 inches of the tank above ground level.

Power Failure – The grinder pump cannot dispose of wastewater without electrical power. If electrical power service is interrupted, keep water usage to a minimum. The grinder pump control panel is equipped with an alarm. In the event of a high water level in the pump tank, the alarm should sound. If the alarm is activated, water usage must be curtailed. Notify the Authority when this occurs at 724-507-6464.

NOTES:

1. SEWER PIPE BETWEEN THE SEWER MAIN AND THE CUSTOMER'S CLEANOUT AND VENT SHALL BE 4" OR 6" SDR 35 PVC PIPE WITH RUBBER ELASTOMERIC GASKETS EXCEPT WHERE SOLVENT WELD JOINTS ARE INDICATED.
2. SEWER PIPE SHALL BE BEDDED (6" MINIMUM BELOW & 12" ABOVE PIPE) WITH SAND OR PA NO. 28 COARSE AGGREGATE.
3. ADDITIONAL CLEANOUTS SHALL BE INSTALLED EVERY 100 FT. AND AT ALL BENDS GREATER THAN 45 DEGREES.
4. MINIMUM PIPE SLOPE SHALL BE 1/4" PER FT. FOR 4" PIPE OR 1/8" PER FT. FOR 6" PIPE.
5. SEWER MUST EXTEND AND CONNECT TO SOLID PIPES INSIDE THE HOME ABOVE THE BASEMENT FLOOR EXCEPT THAT CONNECTIONS CAN BE MADE TO PLUMBING WHICH HAS PASSED THE PRESSURE TEST IN THE INTERNATIONAL PLUMBING CODE, SECTION 312 AND SECTION 703.4.
6. NO DOWN SPOUTS, FRENCH DRAINS, SUMP PUMPS OR OTHER GROUND WATER COLLECTION PIPES OR DRAINS CAN BE CONNECTED TO THE SEWER LATERAL.
7. VENT COVER SHALL BE LOCATED ABOVE 100 YR. FLOOD LEVEL.
8. ALL ESTABLISHMENTS WHICH DISCHARGE GREASE OR OIL SUCH AS RESTAURANTS ETC. SHALL INSTALL AN APPROVED GREASE AND OIL TRAP.
9. ALL ESTABLISHMENTS WHICH DISCHARGE GRIT OR SEDIMENT SUCH AS A CAR WASH, ETC. SHALL INSTALL AN APPROVED SEDIMENT & GRIT TRAP.
10. BACKFLOW VALVES REQUIRED AS PER APPLICABLE CODES (INTERNATIONAL PLUMBING CODE SECTION 715.1)
11. CONNECTIONS TO EXISTING PIPE MAY UTILIZE A TRANSITION COUPLING WITH STAINLESS STEEL SHEAR RING (FERNCO 5000 SERIES, OR EQUIVALENT).
12. BACKFLOW VALVES MAY BE LOCATED WITHIN THE BASEMENT OR OUTSIDE THE BASEMENT. IF LOCATED OUTSIDE THE BASEMENT, THE VALVE SHALL BE WITHIN 30" OF THE FOUNDATION WALL.



INDEPENDENCE-CROSS CREEK
JOINT SEWER AUTHORITY

PENNSYLVANIA

SANITARY SEWERAGE SYSTEM PROJECT TYPICAL SEWER SERVICE LATERAL INSTALLATION FOR GRAVITY SEWER CONNECTION

REVISED T.F. 05-28-2014 ADDED SOLVENT WELD TO DOUBLE CLEAN OUT TEE.

DETAIL

SCALE N.T.S.
DATE JULY 2013
DRAWN BY T.F.
APPROVED BY T.E.B.
SHEETS IN SET 2-379-707-1

BANKSON ENGINEERS, INC.
CONSULTING ENGINEERS
NORMAN, PA 15061

ADDED SOLVENT WELD TO DOUBLE CLEAN OUT TEE.

NOTES:

- SEWER PIPE BETWEEN THE GRINDER PUMP AND THE CUSTOMER'S CLEANOUT AND VENT SHALL BE 4" SCH. 40 PVC WITH SOLVENT WELD JOINTS.
- SEWER PIPE SHALL BE BEDDED (6" MINIMUM BELOW & 12" ABOVE PIPE) WITH SAND OR PA No. 28 COARSE AGGREGATE.
- ADDITIONAL CLEANOUTS SHALL BE INSTALLED EVERY 100 FT. AND AT ALL BENDS GREATER THAN 45°.
- MINIMUM PIPE SLOPE SHALL BE 1/4" PER FT.
- SEWER MUST EXTEND AND CONNECT TO SOLID PIPES INSIDE THE HOME ABOVE THE BASEMENT FLOOR EXCEPT THAT CONNECTIONS CAN BE MADE TO PLUMBING WHICH HAS PASSED THE PRESSURE TEST IN THE INTERNATIONAL PLUMBING CODE, SECTION 312 AND SECTION 703.4.
- NO DOWN SPOUTS, FRENCH DRAINS, SUMP PUMPS OR OTHER GROUND WATER COLLECTION PIPES OR DRAINS CAN BE CONNECTED TO THE SEWER LATERAL.
- VENT COVER SHALL BE LOCATED ABOVE 100 YR. FLOOD LEVEL.
- ALL ESTABLISHMENTS WHICH DISCHARGE GREASE OR OIL SUCH AS RESTAURANTS, ETC. SHALL INSTALL AN APPROVED GREASE AND OIL TRAP.
- ALL ESTABLISHMENTS WHICH DISCHARGE GRIT OR SEDIMENT SUCH AS A CAR WASH, ETC. SHALL INSTALL AN APPROVED SEDIMENT & GRIT TRAP.
- BACKFLOW VALVES REQUIRED AS PER APPLICABLE CODES (INTERNATIONAL PLUMBING CODE SECTION 715.1)
- CONNECTIONS TO EXISTING PIPE MAY UTILIZE A TRANSITION COUPLING WITH STAINLESS STEEL SHEAR RING (FERNCO 5000 SERIES, OR EQUIVALENT).
- BACKFLOW VALVES MAY BE LOCATED WITHIN THE BASEMENT OR OUTSIDE THE BASEMENT. IF LOCATED OUTSIDE THE BASEMENT, THE VALVE SHALL BE WITHIN 30" OF THE FOUNDATION WALL.
- 220 VOLT POWER SUPPLY SHALL BE CONNECTED TO GRINDER PUMP CONTROL PANEL BY LANDOWNER.

PLACEMENT OF VENT RELATIVE TO WINDOWS AND OTHER OPENINGS MUST CONFORM TO PLUMBING CODE. VENT CAP SHALL BE INSTALLED A MIN. OF 1' ABOVE GROUND OR 100 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

IF LENGTH OF VENT PIPE ABOVE GROUND REQUIRES FASTEN SECURELY TO BUILDING (TYP.)

SOLVENT WELD JOINTS

VALVCO LOCKING SEWER CLEANOUT COVER #640, OR EQUIVALENT. REMOVABLE CAST IRON COVER STAMPED "SEWER".

MIN. PIPE SLOPE - 1/4" PER FT.

BY TOWNSHIP CONTRACTOR

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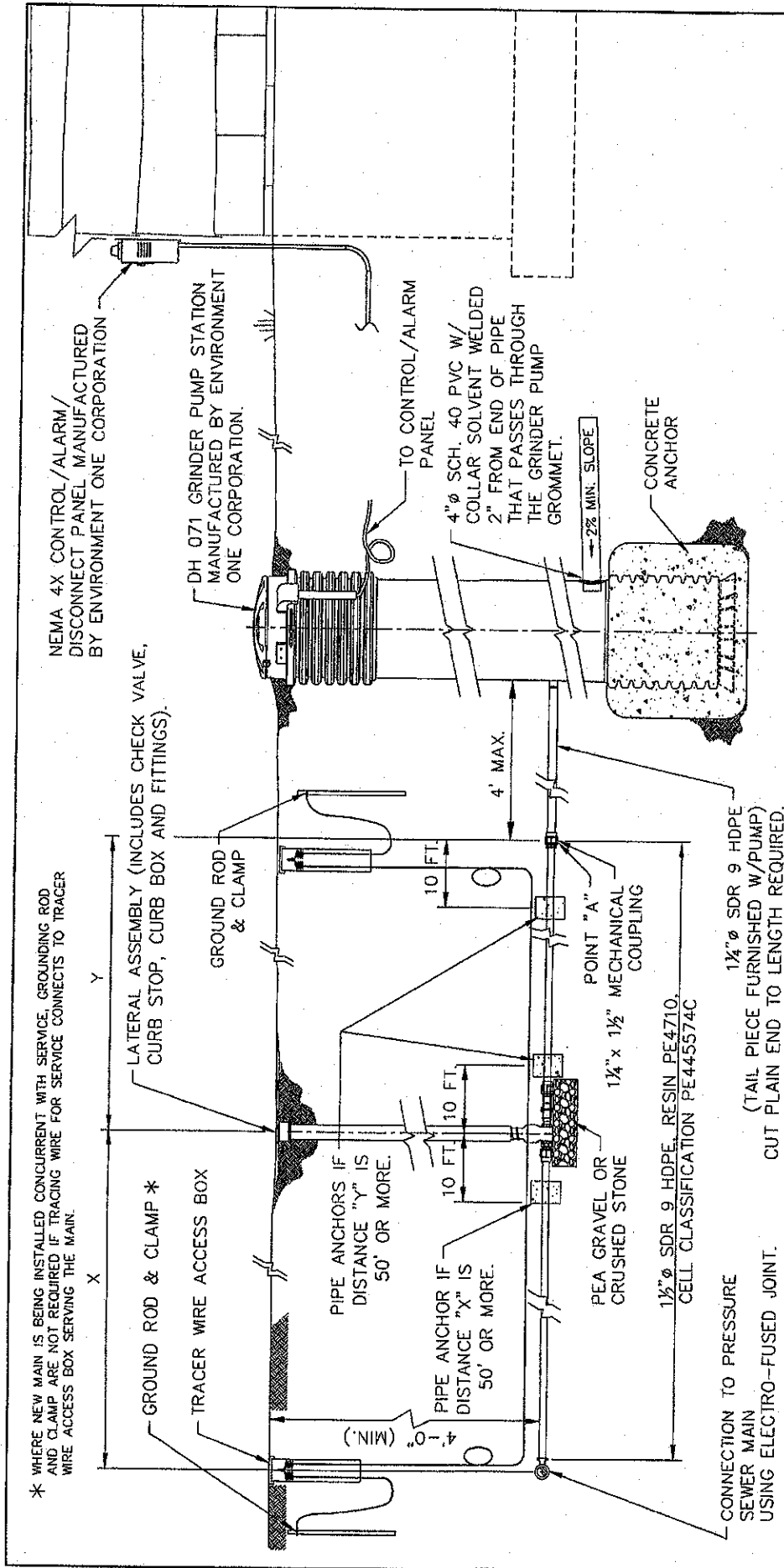
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- THE PRESSURE SEWER SERVICE LINE IS TO BE INSTALLED WITH A POSITIVE UPWARD SLOPE THROUGHOUT ITS ENTIRE LENGTH FROM THE GRINDER PUMP DISCHARGE TO THE TIE-IN WITH THE PRESSURE SEWER MAIN.

- WHERE THE DISTANCE "Y" EXCEEDS 50', TWO ANCHORS MUST BE INSTALLED, ONE ON EACH END OF THE PIPE RUN 10 FT. FROM THE ENDS.

- WHERE THE DISTANCE "X" EXCEEDS 50', ONE ANCHOR MUST BE INSTALLED 10 FT. FROM THE LATERAL ASSEMBLY.

- DELAY INSTALLING ANCHORS UNTIL AFTER THE PIPELINE BEING ANCHORED HAS BEEN INSTALLED AND BURIED FOR AT LEAST 24 HOURS.

- DELAY MAKING THE CONNECTION BETWEEN THE LATERAL ASSEMBLY AND A NEIGHBORING UNANCHORED PIPELINE UNTIL AFTER THE NEIGHBORING PIPELINE HAS BEEN INSTALLED AND BURIED FOR AT LEAST 24 HOURS.

- DELAY MAKING THE CONNECTION AT POINT "A" TO AN UNANCHORED PIPELINE UNTIL AFTER THE UNANCHORED PIPELINE HAS BEEN INSTALLED AND BURIED FOR AT LEAST 24 HOURS.

- SEE DRAWING 2-579-740-2 FOR PIPE ANCHOR DETAIL.

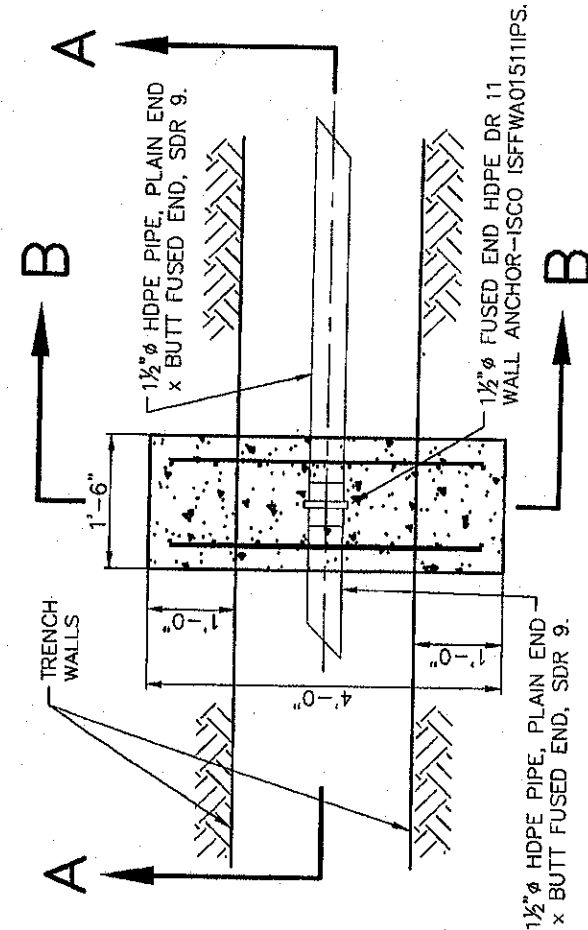
- SEE DRAWING 2-579-740-3 FOR TRACER WIRE, TRACER WIRE ACCESS BOX AND TRACER WIRE GROUNDING DETAIL.

REVISED T.F. 2016-07-21

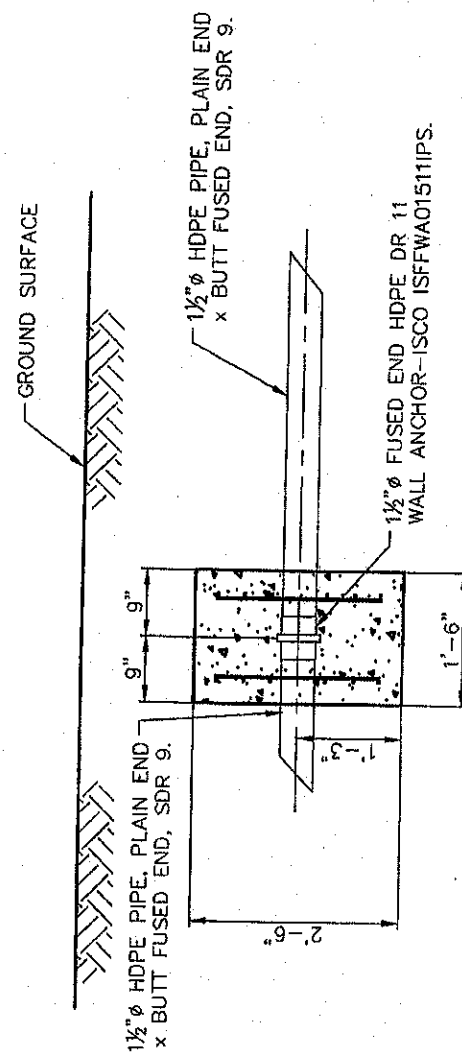
INDEPENDENCE-CROSS CREEK
JOINT SEWER AUTHORITY
WASHINGTON COUNTY
PENNSYLVANIA

SANITARY SEWERAGE SYSTEM PROJECT
TYPICAL SEWER SERVICE LINE CONNECTION
GRINDER PUMP TO PRESSURE SEWER MAIN

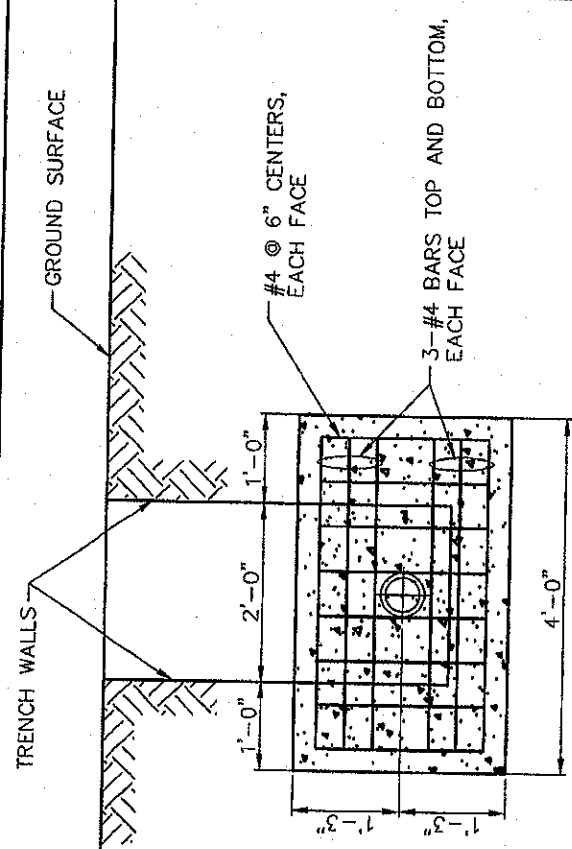
B/E BANKSON ENGINEERS, INC. CONSULTING ENGINEERS INDIANAPOLIS, IN 46201	SCALE N.T.S.	DRAWN BY T.F.	SHEETS IN SET 3
	DATE JULY 2013	APPROVED BY T.F.B.	DRAWING NUMBER 2-579-740-1



PLAN VIEW



SECTION A-A



SECTION B-B

**INDEPENDENCE-CROSS CREEK
JOINT SEWER AUTHORITY**

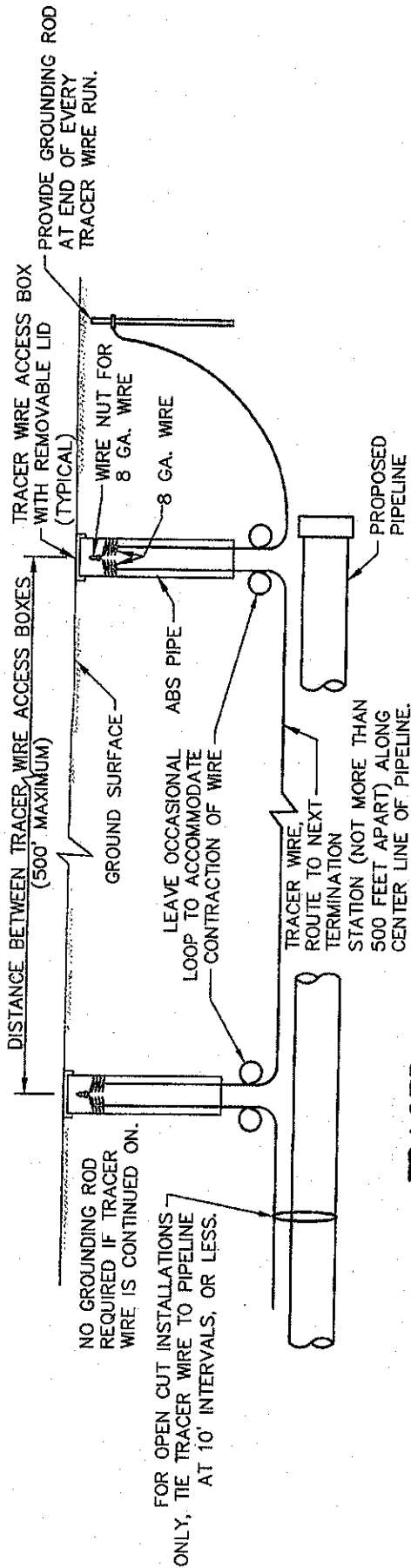
**SANITARY SEWERAGE SYSTEM PROJECT
TYPICAL SEWER SERVICE LINE CONNECTION
GRINDER PUMP TO PRESSURE SEWER MAIN
PIPE ANCHOR DETAIL**

WASHINGTON COUNTY PENNSYLVANIA

BE	BANKSON ENGINEERS, INC. CONSULTING ENGINEERS NORCO, PA. 15061	SCALE N.T.S.	DRAWN BY T.F.	SHEETS IN SET 3
		DATE JULY 2013	APPROVED BY T.E.B.	DRAWING NUMBER 2-579-740-2

NOTE:

1. TRACER WIRE IS REQUIRED FOR ALL NON-METALLIC PRESSURE PIPELINES INCLUDING FORCE MAINS, PRESSURE SEWERS, PRESSURE SEWER SERVICE LINES, WATER MAINS, WATER SERVICE LINES AND GAS LINES. TRACER WIRE IS NOT REQUIRED FOR GRAVITY SEWERS OR FOR METALLIC PRESSURE PIPELINES.
2. WHERE THE PIPELINE IS INSTALLED BY OPEN CUT, THE WIRE SHALL BE SECURELY FASTENED TO THE TOP OF THE PIPE AT INTERVALS OF NO GREATER THAN 10 FEET. WHERE THE PIPELINE IS INSTALLED BY DIRECTIONAL BORING, THE TRACER WIRE SHALL BE PULLED ALONG WITH THE PIPE AND NOT FASTENED.
3. NO TRACER WIRE SPLICES ARE TO BE MADE BELOW GROUND. ALL TRACER WIRE SPLICES SHALL BE ACCOMPLISHED USING A TRACER WIRE ACCESS BOX.
4. TRACER WIRE ACCESS BOXES SHALL BE PROVIDED AT THE INTERSECTIONS (TEES) OF ALL NON-METALLIC PIPES. EXCEPT NO TRACER WIRE IS REQUIRED ALONG THE PORTION OF LINE LOCATED BETWEEN THE CUSTOMERS CURB BOX AND THE TEE CONNECTION TO THE MAIN WHERE THE TEE IS SITUATED BELOW A TRAVELED LANE OF PUBLIC ROAD PAVEMENT.
5. PROVIDE ADDITIONAL LENGTHS OF TRACER WIRES AT TRACER WIRE ACCESS BOXES SO THAT, WHEN ALL WIRES ARE ATTACHED TO THE LID, THE LID MAY BE LIFTED TO A POINT NO LESS THAN 30" ABOVE THE GROUND SURFACE.



TRACER WIRE, TRACER WIRE ACCESS BOX AND TRACER WIRE GROUNDING DETAIL

MATERIAL REQUIREMENTS

-TRACER WIRE ACCESS BOX

- IN PAVEMENT OR UNLANDSCAPED BERMS-FIGURE #RWAB BY C.P. TEST SERVICES-VALVCO.
- ALL OTHER LOCATIONS-FIGURE #SEWAB BY C.P. TEST SERVICES-VALVCO.

-TRACER WIRE

- STRANDED, TYPE 304, OR TYPE 316 STAINLESS STEEL WITH 45 MIL HDPE JACKET.
- RATING-30 VOLTS.
- 0.125" (EQUIVALENT TO #8AWG).
- TENSILE STRENGTH-1720 POUNDS.
- MANUFACTURERS-PERFORMANCE WIRE & CABLE, COPPERHEAD INDUSTRIES, OR EQUIVALENT.
- GROUNDING ROD & CLAMP
- EITHER TYPE 304, TYPE 304L OR TYPE 302/304 STAINLESS STEEL.
- ROD DIAMETER & LENGTH- 5/8" x 24"
- CLAMPS-493T BY THOMPSON, SP58 BY ERITECH, SRC-SS BY GALVAN, OR EQUIVALENT.

INDEPENDENCE-CROSS CREEK
JOINT SEWER AUTHORITY

PENNSYLVANIA

SANITARY SEWERAGE SYSTEM PROJECT

TYPICAL SEWER SERVICE LINE CONNECTION
GRINDER PUMP TO PRESSURE SEWER MAIN
TRACER WIRE, TRACER WIRE ACCESS BOX AND
TRACER WIRE GROUNDING DETAIL



BANKSON ENGINEERS, INC.
CONSULTING ENGINEERS
MONROE, PA 15061

SCALE
N.T.S.
DATE
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DRAWN BY
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APPROVED BY
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SHEETS IN SET
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