

Mars Borough
Butler County, Pennsylvania

**RULES AND REGULATIONS
GOVERNING WATER SERVICE**

Prepared By:
KLH Engineers, Inc.
5173 Campbells Run Road
Pittsburgh, Pennsylvania 15205
(412) 494-0510

**BOROUGH OF MARS
BUTLER COUNTY, PENNSYLVANIA**

RULES AND REGULATIONS GOVERNING WATER SERVICE

CONTENTS

SECTION I - DEFINITIONS

1. Acceptable Cross-Connection.....	1
2. Air Gap.....	1
3. Approved.....	1
4. Borough.....	1
5. Backflow	2
6. Backflow Prevention Device	2
7. Commercial Service.....	2
8. Community Water System or Distribution System.....	2
9. Contamination.....	2
10. Corporation Stop.....	2
11. Cross Connection.....	2
12. Curb Stop	2
13. Customer	2
14. Customer Facility.....	2
15. Date of Presentation.....	3
16. Domestic Service	3
17. Double Check Valve Assembly.....	3
18. Ferrule	3
19. Grubbing	3
20. Health Hazard.....	3
21. Industrial Service	3
22. Interconnection.....	3
23. Main Extensions.....	3
24. Mains.....	3
25. Meter Installation	4
26. Meter Rate Service.....	4
27. Municipal or Public Service.....	4
28. Non Essential Use of Water.....	4
29. Non-Potable Water.....	4
30. Objectionable Cross-Connection	4
31. Owner.....	5
32. Pollution.....	5
33. Pollution Hazard.....	5
34. Potable Water.....	5

CONTENTS

SECTION I - DEFINITIONS (CONTINUED)

35. Premises	5
36. Private Fire Protection.....	6
37. Public Fire Protection Service.....	6
38. Public Water Supply System.....	6
39. Punch List	6
40. Reduced Pressure Principal Device	7
41. Service Line	7
42. Service Line Connection	7
43. Tapping	7
44. Tariff or Rate Schedule	7
45. Temporary Service	7
46. Tenant.....	7
47. Water Course.....	7
48. Water Hammer	8
49. Well Point	8

SECTION II - CONDITIONS OF SERVICE

50. General	8
-------------------	---

SECTION III - APPLICATION FOR SERVICE AND CONTRACTS

51. Application for Service Line Connection	8
52. Application for Water Service	8
53. Information on Applications	9
54. Approval of Applications.....	9
55. Application/Contract	9
56. Contracts with Delinquents	9
57. Term of Contract	9
58. Special Contracts.....	9
59. Governmental Regulations a Part of Contract	10
60. Individual Liability for Joint Service	10
61. New Application Upon Change in Ownership or Occupancy or Service	10
62. Renewal of Service	10
63. Condition of Plumbing System	11

SECTION IV - CASH DEPOSITS

64. General	11
-------------------	----

CONTENTS

SECTION V - SERVICE CONNECTIONS

65. Installation of Service Line Connection.....	12
66. Maintenance - Service Line Connection	13
67. Installation - Customer Facility.....	13
68. Maintenance - Customer Facility	16
69. Length of Service Line.....	16
70. Penalty for Placing Obstructions Over, In or Around Curb Boxes.....	17
71. Service Line Connection on Private Property	17
72. One Service Connection for Each Customer	17
73. Single Service Line with Two or More Customers.....	17
74. Other Customer Facility Requirements.....	17
75. Change in Location of Service Line Connection	18
76. Renewal of Service Line	18
77. Use of Curb Stops	18

SECTION VI - METERS

78. General	18
79. Size of Meter	19
80. Location.....	19
81. Installation of Meter and Related Piping	19
82. Maintenance, Care and Responsibility for Damage.....	20
83. Meter Tests.....	20
84. Change in Location of Meters.....	21
85. Seals	21
86. Leaks	21
87. Reading and Registration of Meters.....	21
88. Access to Meter, Etc.	21
89. Failure to Provide Access to Meters, Etc.	22
90. Notification Relative to Condition of Meter	22
91. Minimum Charge	22

SECTION VII - SERVICE

92. Discontinuance of Service.....	22
93. Renewal of Service after Discontinuance	23
94. Turn-off Without Authorization.....	24
95. Suspension of Service Due to Emergency	24
96. Reserve Supply	24

CONTENTS

SECTION VIII - PUBLIC FIRE SERVICE

97. Application for Fire Hydrant and Location.....24
98. Penalty for Placing Obstructions Over, in or Around Public Fire Hydrants.....25
99. Maintenance25
100. Allowable Use.....25
101. Change of Location25
102. Inspection25

SECTION IX - PRIVATE FIRE SERVICE

103. Application for Private Fire Protection Service26
104. Approval of Application26
105. Terms and Conditions26
106. General Conditions - Private Fire Hydrants.....28
107. Cost of Fire Service Connection28

SECTION X - RESPONSIBILITY FOR FIRE SERVICE

108. Responsibility for Service29

SECTION XI - BILLS AND PAYMENT

109. Place of Payment.....29
110. Basis for Preparation of Bills29
111. Bills Rendered and Due29
112. Abatement30

**SECTION XII - CROSS CONNECTION AND INTERCONNECTIONS
AND BACKFLOW PREVENTION DEVICES**

113. Purpose and Intent.....30
114. Backflow Prevention Devices31
115. Responsibility.....34
116. Prohibition of Cross Connections34

SECTION XIII - GENERAL

117. Availability - Rules and Regulations36
118. Effective Date - Rules and Regulations36
119. Severability - Rules and Regulations36
120. Amendments - Rules and Regulations36
121. Inspection36
122. Interference with Borough's Property36
123. Service of Notices37
124. Complaints37
125. Service not Guaranteed37

CONTENTS

SECTION XIII - GENERAL (CONTINUED)

126. Water Quality Tests.....	37
127. Restriction of Supply	38
128. Ground Wire Attachments	38
129. Water Hammer	38
130. Acts of Borough Employees and/or Others	38
131. Swimming Pools	38
132. Miscellaneous Work and Service Furnished by the Borough.....	39
133. Tapping Fees	39

SECTION XIV - WATERLINE EXTENSIONS AND ADDITIONAL FACILITIES

134. General	39
135. Limit of Extension	39
136. Applications for Approval of Extensions and other Work and General Requirements Relative Thereto	40
137. Responsibility for Cost.....	40
138. Payment of Cost	41
139. Financial Security	41
140. Agreement	42
141. Compliance with Design and Construction Standards.....	42
142. General Plans	42
143. Detailed Plans.....	42
144. Report.....	43
145. Installation Specifications	44
146. Refund Policy.....	44
147. Developers Handbook for Waterline Construction.....	45

SECTION XV - SPECIFICATIONS FOR WATERLINE CONSTRUCTION

148. Introduction	45
149. Inspection of Construction Work.....	45
150. As Built Drawings.....	46
151. Rights-of-Way	46
152. Line and Grade.....	46
153. Clearing and Grubbing.....	46
154. Excavation and Backfill	47
155. Exploratory Excavations	48
156. Warning Signs, Lights and Barricades.....	49
157. Dewatering	49
158. Existing Utility Lines -Location, Protection and Hazard.....	49
159. Ductile Iron Water Pipe	50

CONTENTS

SECTION XV - SPECIFICATIONS FOR WATERLINE CONSTRUCTION (CONTINUED)

160. Installation of Ductile Iron Water Pipe	51
161. Gate Valves	52
162. Hydrostatic Testing	52
163. Disinfection	52
164. Thrust Restraints	53
165. Roads, Walkways, Paving and Surface Restoration	53
166. Boring and Casing.....	54
167. Borough Road Paving and Berm.....	55
168. Seeding.....	55
169. Disposal of Excess Material.....	55
170. Sheeting, Shoring and/or Bracing	56
171. Fire Hydrants.....	56
172. Blow Off Assembly	57
173. Dust and Mud Control.....	57
174. Contractor's Office Facilities	57
175. Clean-up	57
176. Minimizing Water Pollution from Soil Erosion.....	57
177. Erosion and Sedimentation Control during Earth Moving Activities.....	57
178. General Requirements Relating to Construction Materials	58
179. Coordination of Work with the Borough	58

SECTION XVI - STANDARD DETAILS

Fire Hydrant Installation.....	SD-01
Concrete Thrust Blocking.....	SD-02
Cul-De-Sac Loop Installation.....	SD-03
Concrete Anchors and Method of Laying Water lines under Obstruction	SD-04
Concrete Anchor Construction	SD-05
Minimum Distances between Water and Sewer Lines.....	SD-06
End Blow Off	SD-07
Side Blow Off.....	SD-08
Steel Casing and D.I. or PVC Carrier Pipe Installed by Boring.....	SD-09
Straw Bale Barrier for Erosion & Sedimentation Control.....	SD-10
Temporary Sedimentation Trap.....	SD-11
Straw Bale Temporary Sedimentation Trap	SD-12
Borough Streets Shoulder Restoration	SD-13
Water Customer facility and Service Connection Installation	SD-14
Outside Meter Pit Installation.....	SD-15
Thermal Expansion Absorber.....	SD-16
Borough Streets Road Restoration	SD-17

MARS BOROUGH
BUTLER COUNTY, PENNSYLVANIA

RULES AND REGULATIONS GOVERNING WATER SERVICE

SECTION I - DEFINITIONS

1. **ACCEPTABLE CROSS-CONNECTION:** An acceptable cross-connection is a cross-connection having all of the following characteristics:
 - a. The source of the supply other than the lines of the Borough, directly connected, is a source approved by the Pennsylvania Department of Environmental Resources as an acceptable, safe and sanitary source of public water supply and which continues as such at all times when the cross-connection is in existence.
 - b. Installed or continued in existence with the knowledge and specific consent of the Borough, and when installed on the premises of a customer or installed by a customer, such consent shall be evidenced by proper written agreements or approval.
 - c. Installed or continued in existence and operated at all times in strict compliance with all applicable laws, ordinances, rules and regulations.
2. **AIR GAP:** The unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or to other devices and the flood level rim of said vessel. An approved air gap shall be at least double the diameter of the supply pipe, measured vertically, above the top of the rim of the vessel; and, in no case less than one inch. When an air gap is used at the service connection to prevent the contamination or pollution of the public potable water system, it is required that an emergency by-pass be installed around the air gap system and an approved reduced pressure principle device shall be installed in the by-pass system.
3. **APPROVED:** Approved shall mean accepted by the Borough as meeting an applicable specification stated or cited in the rules and regulations or as suitable for the proposed use. The term "Approved" used in reference to a backflow prevention device shall mean a backflow prevention device that meets the requirements of the American Water Works Association's standard C506-69 and the Foundation for Cross Connection Control and Hydraulic Research of the University of Southern California and is acceptable to the Borough. Competent testing laboratories other than the Foundation for Cross Connection Control may be qualified by the Borough to approve backflow preventers.
4. **BOROUGH:** The word "Borough," whenever the same appears herein, means Mars Borough, Butler County, Pennsylvania, a body corporate and politic organized and existing under the laws of the Commonwealth of Pennsylvania.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

5. **BACKFLOW:** The flow of water or other liquids, mixtures, or substances into the potable water distribution system of the Borough from any source or sources other than its intended source. Back siphonage and back pressure are two types of backflow specifically contemplated by these rules and regulations.
6. **BACKFLOW PREVENTION DEVICE:** Types, uses, advantages, limitations. Three types of devices: reduced pressure principle device (RPPD); double check valve assembly (DCVA); and air gap (AG) which are designed to prevent the occurrence of backflow.
7. **COMMERCIAL SERVICE:** Provision of water to premises where the customer is engaged in trade and/or commerce.
8. **COMMUNITY WATER SYSTEM OR DISTRIBUTION SYSTEM:** Shall mean the water distribution system that furnishes water for general use, owned and operated by Mars Borough of Butler County, Pennsylvania and is recognized by regulatory agencies as a community potable water supply system.
9. **CONTAMINATION:** An impairment of water quality to a degree which creates an actual or potential health hazard such as, but not limited to, chemical poisoning or spread of diseases, or impairs the composition and odor of the water to such an extent that it is considered by said odor or composition to be not acceptable by the Borough for human consumption.
10. **CORPORATION STOP:** A valve attached to the water main to start a service connection, which is used to interrupt flow during installation or maintenance of the service line.
11. **CROSS CONNECTION:** A cross-connection is a physical arrangement whereby a public water supply system is connected with another water system, public or private, in such a manner that a flow of water into such public water supply system from such other water system is possible. Specifically it is the intent of these regulations to regulate any system containing water or substances, the quality and quantity of which cannot be approved by County, State, or Federal Regulatory Agencies.
12. **CURB STOP:** A valve installed in the water service line, accessible for operation from the surface of the ground for routinely interrupting flow through the service line.
13. **CUSTOMER:** The word "customer," as used herein, means the owner or tenant, as defined herein, contracting for or using water service on a single premises; and the word "Customers" means all so contracting for and using service.
14. **CUSTOMER FACILITY:** (Borough service line) The pipe, valves and other facilities by means of which water is conducted from the curb stop to the premises, and specifically includes the service line extending from a point of connection to the curb stop to a point inside the walls of the premises or meter box where approved, a stop cock or compression valve on the line at this point, connections for the inlet and outlet sides of the meter, a stop and waste cock on the outlet side of the meter and such other facilities.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

15. **DATE OF PRESENTATION:** The date upon which a bill or notice is mailed, as evidenced by the United States Postal Service mark.
16. **DOMESTIC SERVICE:** Provision of water for residential purposes, including water for sprinkling lawns, gardens (not commercial type) and shrubbery, watering livestock, washing vehicles, and other similar and customary purposes.
17. **DOUBLE CHECK VALVE ASSEMBLY:** A device composed of two independently operating approved check valves with tightly closing shut-off valves on each side of the check valves, and necessary appurtenances for testing. To be approved by the Borough or its designated agent, the device must be readily accessible for maintenance and testing and installed in a location where no part of the device will be subject to outside flooding. The device shall be used on service connections which may be subject to backflow and where there exists a possibility of actual or potential pollution hazard.
18. **FERRULE:** A metal, plastic or rubber ring used to fasten and seal pipe in a compression fitting.
19. **GRUBBING:** The act of digging the ground for removal of stumps, roots, large rocks, etc.
20. **HEALTH HAZARD:** An actual or potential threat of contamination or pollution to the Borough's water system to such a degree or intensity that there would be a danger to the public health of the Borough's water system customers.
21. **INDUSTRIAL SERVICE:** Provision of water to premises for use in manufacturing or processing activities.
22. **INTERCONNECTION:** An interconnection is a plumbing arrangement, other than a cross-connection, by which contamination might be admitted to or drawn into the distribution system of the Borough, or into lines connected therewith used for the conveyance of potable water. For the purposes of these rules and regulations, when the term cross connection is used for regulatory purposes, it shall be meant to include interconnection in all instances.
23. **MAIN EXTENSIONS:** Extensions of distribution pipelines beyond existing facilities and exclusive of service connections.
24. **MAINS:** Distribution pipelines which are located in streets, highways, etc., public ways or private rights of way, and which are used to serve the general public.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 25. METER INSTALLATION** - A meter installation is defined as an installation including one or more meters placed at one or more locations for the purpose of serving one or more premises in a building or a related group of buildings, in a facility or related group of facilities, in an area or a related group of areas, and in such other properties. More than one meter may be provided to allow flexibility of operation, or furnish adequate capacity, or to permit more accurate measurement of water, or due to the physical layout of the property.
- 26. METER RATE SERVICE:** Provision of water to premises in measured quantities.
- 27. MUNICIPAL OR PUBLIC SERVICE:** Provision of water to a municipal subdivision of the Commonwealth of Pennsylvania or agency thereof, or to other similar public bodies.
- 28. NON ESSENTIAL USE OF WATER:** Non essential uses of water include:
- a. The use of hoses, sprinklers, or other means for sprinkling or watering of shrubbery, trees, lawns, grass, plants, vines, gardens, vegetables, flowers, or any other vegetation.
 - b. The use of water for washing automobiles, trucks, trailers, trailer houses, or any other type of mobile equipment.
 - c. The washing of streets, driveways, parking lots, service station aprons, or office buildings, exteriors of homes, sidewalks, apartments, or other outdoor surfaces.
 - d. The operation of any ornamental fountain or other structures making a similar use of water.
 - e. The use of water for filling swimming or wading pools.
 - f. The operation of any water cooled comfort air conditioning which does not have water-conserving equipment.
 - g. The use of water from fire hydrants for construction purposes or fire drills.
 - h. The use of water for commercial farms and nurseries.
- 29. NON-POTABLE WATER:** Water which either is not safe for human consumption or is of questionable potability.
- 30. OBJECTIONABLE CROSS-CONNECTION:** An objectionable cross-connection is a cross-connection other than an acceptable cross-connection.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

31. **OWNER:** The person, whether a natural person, partnership or corporation, in whom is vested ownership, dominion or title, of any premises which is or is about to be supplied with water by the Borough. Whenever used herein, the singular will include the plural, and the plural the singular.
32. **POLLUTION:** The presence of any foreign substance (organic, inorganic or biological) in water which tends to degrade its qualities so as to constitute a hazard or impair the usefulness or quality of the water to a degree which does not create an actual public health hazard, but which does adversely or unreasonably affect such water for domestic use.
33. **POLLUTION HAZARD:** An actual or potential impairment to the potability of the community water system which constitutes a nuisance, is aesthetically objectionable or can cause physical damage to the community water system but would not be dangerous or threatening to public health.
34. **POTABLE WATER:** Water which is safe for human consumption according to recognized state and federal standards.
35. **PREMISES:** The word "premises," as used herein, means the property or area, including improvements thereto, to which water service is or will be provided, 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, place of business, for manufacturing or industrial purposes, as a hospital, church, public or private 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 water closet and/or other fixtures be used in common; or
 - e. Each apartment, office, suite of offices, and/or places of business located in a building or group of buildings, even though such buildings in a group are interconnected by a tunnel, passageway, covered areaway, patio, or by some similar means or structure; or
 - f. A public building devoted entirely to public use, such as a town hall, school house, fire engine house; or
 - g. A single vacant lot or park or playground; or

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- h. Each house in a row of houses; or
 - i. Each dwelling unit in a row of houses, a dwelling unit being defined as a building or portion thereof with exclusive culinary and sanitary facilities designed for occupancy and used by one person or 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 free standing trailer; or
 - m. Each trailer park taken as a whole will be considered as a single premises.
- 36. PRIVATE FIRE PROTECTION:** Provision of water to premises exclusively for fire protection.
- 37. PUBLIC FIRE PROTECTION SERVICE:** The furnishing of service through public fire hydrants.
- 38. PUBLIC WATER SUPPLY SYSTEM** - shall be defined as any part of a water supply utility operated by a municipal corporation, company, or individual authorized by written permit issued by the Department of Environmental Resources in accordance with the laws of the Commonwealth of Pennsylvania, to supply water and extend distribution facilities to the public.
- 39. PUNCH LIST:** Deficiency list compiled at the final inspection. Correction of items on the punch list shall satisfy the Owner's requirement for substantial completion.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 40. REDUCED PRESSURE PRINCIPLE DEVICE:** A device that shall incorporate two or more check valves and an automatically operating differential relief valve located between the two check valves, two tightly closing shut-off valves, and equipped with necessary appurtenances for testing. The device shall operate to maintain the pressure in the zone between the two check valves, less than the pressure on the Borough potable water supply system side of the device. At cessation of the normal flow, the pressure between the check valves shall be less than the supply pressure. In case of leakage of either check valve, the differential relief shall operate to maintain this reduced pressure by discharging to the atmosphere. When the inlet pressure is two pounds per square inch or less, the relief valve shall open and vent to the atmosphere, thereby providing an air gap in the device. To be approved by the Borough or its designated agents, the device must be readily accessible for maintenance and testing and installed in a location where no part of the device will be subject to outside flooding. The device shall be used on the service connections which may be subject to backflow and where there is a possibility of contamination that constitutes an actual or potential health hazard.
- 41. SERVICE LINE:** The pipe, valves and other facilities by means of which water is conducted from the distribution main to the premises. The service line includes both the Service Line Connection and the Customer Facility.
- 42. SERVICE LINE CONNECTION:** (Borough service line) The pipe, valves and other facilities by means of which the Borough conducts water from its distribution mains to the curb stop to be located at the curb line or property line of the premises, and specifically includes the corporation stop or other means of connection to the main, the service line connected to the corporation stop and extending to the point of connection to the curb stop, the curb stop, the service box and such other facilities.
- 43. TAPPING:** The process by which the Corporation Stop is connected to the distribution main.
- 44. TARIFF OR RATE SCHEDULE:** The entire body of effective rates, rentals, charges and regulations as published and made a part hereof.
- 45. TEMPORARY SERVICE:** A service for circuses, bazaars, fairs, construction work, irrigation of vacant property, trailers or trailer camps, and similar uses that because of their nature will not be used steadily or permanently.
- 46. TENANT:** The word "tenant," whenever the same appears herein, is anyone occupying the premises under lease from a lessor and obtaining water from the mains of the Borough.
- 47. WATERCOURSE:** A channel for conveyance of surface water having defined bed and banks, whether natural or artificial, with perennial or intermittent flow.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

48. **WATER HAMMER:** Pressure waves created when the water in a pipeline is abruptly stopped by closing a valve.
49. **WELL-POINTS:** A section of perforated pipe with its lower end pointed for driving into soil.

SECTION II - CONDITIONS OF SERVICE

50. **GENERAL:** The Borough will furnish water and service only in accordance with the currently prevailing and as hereafter revised rates, Rules and Regulations of the Borough, 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 Borough. The Borough 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, amended and/or new rates, rules and regulations, shall forthwith, without notice, become and thereafter be a part of every such application, contract, agreement or license for water service in effect at the time of such alteration, amendment and/or adoption.

SECTION III - APPLICATION FOR SERVICE AND CONTRACTS

51. **APPLICATION FOR SERVICE LINE CONNECTION:** A written application, prepared on the form furnished by the Borough, must be submitted to the Borough for the purpose of requesting the installation of a water service line connection to each premises or group of premises where an individual service line connection is permitted in accordance with these Rules and Regulations. Said application shall be signed by the owner of the premises and shall be subject to such water service connection fee and charges currently in effect. Said application, together with the Rules and Regulations of the Borough, shall regulate and control the service of water to such premises. Said application shall be submitted at least one month before service line connection is required.
52. **APPLICATION FOR WATER SERVICE:** A written application, prepared on the form furnished by the Borough, must be submitted to the Borough for the purpose of requesting water service. Said application shall be signed by the owner of the premises and, where a tenant is also to be responsible for the charges, by the tenant also. Said application to be subject to the requirements relative to deposits and fees as hereinafter set forth. The application, together with the Rules and Regulations of the Borough, shall regulate and control the service of water to such premises. Said application shall be submitted at least one month before the service line connection is required.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 53. INFORMATION ON APPLICATIONS:** Each applicant for a water service connection and/or water service will be required to complete and sign a form or forms, provided by the Borough.
- 54. APPROVAL OF APPLICATIONS:** Applications are merely written requests for service line connections and/or water service. All applications are subject to approval of the Board of the Borough, and are subject to payment of all required fees and compliance with all regulations relative thereto prior to commencement of the work or service requested therein.
- 55. APPLICATION/CONTRACT:** The application for water service shall be a binding contract on both the customer and the Borough upon approval by the Borough. Rates for water service shall accrue from the date the water supply service has been completed and water is available to the "premises," with respect to the work and responsibilities of the Borough.
- 56. CONTRACTS WITH DELINQUENTS:** No agreement shall be entered into by the Borough with any applicant for water service or water service connection, whether owner or tenant, until all arrears for water, rents, bills for meter repairs or other charges, due from 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. Such payments shall include the minimum meter charge for each quarter that service was suspended, but said additional charge shall not exceed the minimum meter charge.
- 57. TERM OF CONTRACT:** All contracts covering metered water supply service shall continue in force from month to month or quarter to quarter, subject to the billing period, unless ten days' written notice is given by either party of a desire to terminate the contract. Excepting in the case of delinquent accounts (Section 56), when written notice as aforesaid is given by the customer of a desire to terminate the contract and water is turned off at the curb at the end of any month or quarter, subject to the billing period, no further charge for water service will be made from the date of such turn-off until service is again restored.
- 58. SPECIAL CONTRACTS:** The Borough may require, prior to approval of service, special contracts other than applications under the following conditions:
- a. If required by provision in the Schedule of Rates, the duration of the contract to be as specified in the schedule.
 - b. If the construction of an extension and/or other facilities is necessary.
 - c. For providing temporary service, including water service for building or other special purposes. Water for building purposes shall be used only from a temporary connection approved by the Borough.
 - d. For standby or fire protection service.
 - e. For connections with other qualified utilities or municipal subdivisions.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- f. For extensions from the water supply system, whether or not such facilities are to be conveyed to the Borough.
 - g. If deemed necessary by the Borough.
- 59. GOVERNMENTAL REGULATIONS A PART OF CONTRACT:** All contracts for water service shall be subject to the following provision:
- a. The Contract shall be at all times subject to the laws of the Commonwealth of Pennsylvania and its political subdivisions, the Federal Government and the Rules and Regulations of the Borough.
- 60. 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 single periodic bills.
- 61. NEW APPLICATION UPON CHANGE OF OWNERSHIP OR OCCUPANCY OR SERVICE:** A new application must be submitted to and approved by the Borough upon;
- a. any change in ownership of the premises; or
 - b. any change in occupancy of the premises where the owner wishes the tenant to be billed directly; or
 - c. any change (in the size, character, or extent of equipment or operations utilizing water) in the water service to the premises. The Borough may, upon five (5) days written notice to the owner and, if applicable, the tenant, discontinue water service to the premises until the required application has been submitted and approved.
 - d. At least seven (7) working days prior to the date of closing on the sale of any premises receiving water service provided by the Borough, the owner shall notify the Borough in writing of the anticipated closing date. Upon receipt of such notice, the Borough shall conduct a final reading of the water meter and issue to the owner a "lien letter" reflecting the status of the owner's water account. The owner shall pay a fee for such "lien letter" as established by the Borough Council from time to time.
 - e. At the time of the final meter reading as aforesaid, water service to the premises shall be discontinued unless and until the new owner or new tenant shall have made written application for continued water service as required by these rules and regulations.
- 62. RENEWAL OF SERVICE:** Water 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 Borough due from the applicant.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 63. CONDITION OF PLUMBING SYSTEM:** The piping and fixtures on the property of the customer are assumed to be in satisfactory condition at the time service facilities are connected and water furnished; and the Borough, therefore, will not be liable in any case for any accidents, breaks, or leakage that are in any way due to the connection with the supply of water, failure to supply the same, or for the freezing of piping and fixtures of the customer, or for any damage to the property which may result from the usage or non-usage of water supplied to the premises.

SECTION IV - CASH DEPOSITS

- 64. GENERAL:** The following general conditions shall apply to deposits in connection with applications for water 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 for each tenant-occupied premises shall be required with each application for service. Security deposits from tenants shall not be subject to refund until the final bill has been paid in full.
 - b. Deposits shall be required from all applicants who are indebted to the Borough or who have impaired their credit with the Borough in any manner.
 - c. In the case of a customer who has commenced a case under the United States Bankruptcy Code, or any successor statute, the Borough shall require adequate assurance of payment, in the form of a security deposit, for water service after the date of such bankruptcy filing. The Borough may discontinue water service to the premises if neither the customer nor the bankruptcy trustee provides such security deposit within twenty (20) days after the date of such bankruptcy filing.
 - d. The amount of the deposit and the duration of and terms on which it is to be held shall be within the sole discretion of the Borough, except that such deposit shall not exceed the customer's estimated billings for one (1) year.
 - e. Deposits will not bear interest.
 - f. Any customer having a deposit shall pay bills for service as rendered, in accordance with the Rules and Regulations. 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 for any reason set forth in these Rules and Regulations, the Borough may apply the deposit to the payment of an unpaid bill for service and may retain any deposit as security against payment for minimum charges applicable to vacant property if such premises are to be unoccupied.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- g. Should a customer desire to discontinue service, the Borough will refund the deposit upon payment in full for all service rendered and upon receipt of 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 a proper deposit or security is furnished for payment of minimum charges against vacant property or a proper deposit is made by or for a new customer, or such other required deposits are made with the Borough.
- h. All new connections to the systems shall be subject to payment of prevailing connection charges and tapping fees. Where there is an existing service line, the premises shall be subject to payment of prevailing connection charges and tapping fees, unless said connections are made pursuant to a contract between the Borough and a private person providing refunds of tapping fees, in which case the tapping fees set forth therein shall be charged.

SECTION V - SERVICE CONNECTIONS

- 65. INSTALLATION OF SERVICE LINE CONNECTION:** The Borough will install and maintain all service line connections, make all connections to the main line, furnish, install and maintain all service lines from the mains to and including the curb stop and service box which will be placed inside the curb or property line, the said service line connection to be the property of the Borough and to remain under the Borough's control.

Only duly authorized employees or agents of the Borough will be permitted to install a service line connection from the mains of the Borough to the premises of the customer.

The installation of all service line connections is subject to the submission of a written application to the Borough, as previously set forth, to such requests being reasonable, to approval thereof by the Borough and to the payment of such charges for the service line connection installation and meter settings as are in effect at the time of the application, said charges to be payable in advance. Where the governmental unit charges a fee for issuing a permit or permits for street or road openings, or for any other reason in connection therewith, the amount of the fee will be charged to the applicant in addition to the other charges.

The Borough reserves the right to defer the installation of service connections during inclement weather until such time as, in the judgment of the Borough, conditions are suitable for an expeditious and economical installation.

The Borough reserves the right to determine the size and the kind of the service line connection.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 66. MAINTENANCE - SERVICE LINE CONNECTION:** All service line connections originally furnished by the Borough will be maintained by and at the cost of the Borough without expense to the customer for repairs, renewals or replacements.

When meter boxes are located at the curb, the riser pipes and connections therein will be installed by, and at the expense of, the customer, and no customer or workman shall alter, change or in any way tamper with the meter box, meter, or piping and connections therein, without authorization from the Borough.

Prior to laying of new cement sidewalks, making changes in grade, or other changes in sidewalk construction, the customer shall notify the Borough in order that the Borough may relocate the curb box and meter box, if any, at the proper grade. If such notice is not given and the box or boxes are covered or cemented over, thereby necessitating additional expense to the Borough for finding and relocating the same, the customer shall be billed for such additional expense and the Borough will, under no circumstances be responsible for damages to the sidewalk.

In cases where services are frozen, the Borough will at its own expense, thaw out the service connection to the curb stop. The thawing out of the service pipe from the curb stop to the premises shall be done by the customer at his own expense. To avoid a recurrence of freezing, the Borough will make an examination of customer's service line, and if the same is not at a depth of three and one-half feet as required, the Borough shall have the right to require it to be relocated before service is resumed.

- 67. INSTALLATION - CUSTOMER FACILITY:** The customer facility, which is the service line extending from the curb stop to the "premises" and all required appurtenances, shall be installed by, and at the expense of, the customer and shall be done in accordance with the Allegheny County Plumbing Code. The installation shall be in accordance with the following requirements:

- a. General - Customer facility includes connection of the service line to the curb stop service line, from the curb stop to within the structure housing the meter. Each premises shall be served through a separate service line and through a separate meter, except where physical conditions prevent installation of separate service facilities and meters as determined by the Borough. The installation shall include connection of the service line to the curb stop, extension of the service line from the curb stop to a point within the building wall, the installation of a wheel handle round way stop cock or compression valve, without waste, the same size as the service line, on the street side and immediately before the meter; pressure regulator (where static pressure is more than 70 psi) and a union immediately before the meter; the meter; and a stop and waste cock on the outlet side of the meter, all facilities inside the building to be located so as to be readily accessible, protected from freezing and to provide proper drainage for the piping in the building, the installation to include also such facilities as are hereinafter set forth. Installation illustrated in customer facility

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

and service connection detail. Where installation within the building being served is not feasible, meter and appurtenances shall be installed in an Borough approved meter pit. See meter pit detail. The installation shall be made by skilled and qualified workmen. The contractor for the customer shall notify the Borough when the customer facility will be installed in order to permit the Borough to schedule its work and install the service line connection.

- b. Material and Size - The material for all service lines two inches in size and under shall be of first quality Type K soft copper service tubing. All service lines over two inches in size shall be double cement-lined ductile iron pipe, manufactured in accordance with the Specifications of the American Standards Association, Number H21.2 or H21.6, and latest revisions, and shall have bell and spigot or mechanical joint ends, the latter type joints to be in accordance with American Standards Association Specification A21.11; the pipe to be the class required for the particular service.

The Borough exercises the right at any time to revise these requirements and to stipulate the size and weight per foot of pipe, kind and quality of all materials laid between the curb stop and the premises, which are to be furnished and installed by the owner of the property.

The service line shall be no less than 3/4-inch in diameter and shall be in keeping with the service for larger sizes.

- c. Installation and Testing Requirements

- i. Installation - The customer facility must be laid in a straight line, at right angles to the street where possible, at a depth to provide not less than 3-1/2-foot cover, and as necessary to secure proper alignment and to avoid obstacles. The bottom of the trench shall be excavated so as to conform to the curvature of the pipe and afford good bearing surface. Where rock is encountered, the excavation shall be carried below the bottom of the pipe for the distance required and the excavation backfilled with earth or clay well tamped to the proper grade.

No metal pipe shall be placed in contact with cinders or other corrosive material. No service pipe shall be laid in the same trench with gas pipe, drain or sewer pipe, or any other facility of another public service company, nor within three feet of any open excavation or vault.

The joints in all copper tubing and pipe laid underground shall be made using a mechanical coupling of a design and material satisfactory to the Borough. No soldered joints shall be used, and no joints shall be made within a distance of less than five feet from the exterior wall of the

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

premises. All pipe passing through foundation or bearing walls shall be provided with suitable sleeves and the annular space between the sleeve and the pipe made watertight. The sleeves shall be the size specified by the Borough. The installation of ductile iron service lines shall be in complete accordance with the Standard Specifications of the Borough with respect to such work, copies of which are available at the Borough office.

- ii. Hydrostatic Tests - No service line shall be covered until the service line is filled with water and subjected to a hydrostatic test, this test to be observed by a representative of the Borough.

The line shall be slowly filled with water, expelled of all air, and the maximum pressure in the Borough system allowed to develop in the service line. All pipe, fittings, valves and joints shall be carefully examined during the test. All materials found defective shall be removed and replaced with sound and satisfactory materials and all leaks completely eliminated.

The Borough exercises the right to require that the small service lines be subjected to a hydrostatic test at normal operating pressure or 100 psi whichever is greater, and will require such a test on all customer facilities over two inches in diameter and on all unmetered service lines, including fire protection lines

No loss whatsoever due to leakage will be permitted on small service lines. The loss due to leakage shown by tests on service lines two inches in diameter and larger shall not exceed fifty gallons per inch of diameter per mile of pipe per day.

- iii. Inspection - The Borough shall be notified when the installation is completed, prior to backfilling, so that the service line can be subjected to the aforesaid hydrostatic test in the presence of a representative of the Borough, and an inspection made of both workmanship and materials. The notice shall include such data as the location, the name of the owner and tenant, and the time the work will be ready for inspection.

Water will not be supplied through the customer facility or any related part thereof, or through any service or supply line which has not been inspected in the open trench and approved by the Borough. This regulation applies to both original installation and repairs.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The cost of the inspection of an original installation is included in the Borough's prevailing tapping charge paid by the applicant or customer. In the event that an additional trip is necessary to complete the inspection, a fee will be charged at the prevailing charge established by the Borough at the time of said inspection work. If the inspection indicates failure to comply with the requirements, water service will not be granted until the proper remedial measures have been taken.

- 68. MAINTENANCE - CUSTOMER FACILITY:** All customer facilities, service lines and fixtures installed by the customer shall be maintained by him in satisfactory condition. The meters and appliances furnished and owned by the Borough and on the property of the customer shall be protected properly and cared for by said customer. When repairs, renewals, replacements or other necessary work are required on the aforesaid facilities of the customer, the customer shall employ, without delay, competent tradesmen to do the work. All said work shall be done at the expense of the customer. All leaks in the service or any other pipe or fixture in or upon the premises supplied must be repaired immediately by the owner or occupant of the premises, under penalty of discontinuance of service by the Borough.

No person shall clean the customer facility without first being granted permission by the Borough, and such approval shall be subject to disconnection of the service line at the curb stop before cleaning, protection of the meter, and other related requirements. The operation or use of the curb stop shall be subject to control by Borough employees only.

No person except an authorized agent of the Borough shall be permitted to clean the service line between the main and the curb.

Any person(s) who cleans or permits another to clean a service line shall be responsible for any and all damages incurred by the Borough, resulting from such action. The Borough shall in no event be responsible for maintaining any portion of the service line or service line facilities owned by the customer, for damage done by water escaping therefrom, or from lines or fixtures on customer's property; and the customer shall at all times comply with municipal regulations with reference thereto, and make changes therein, required on account of change of grade, relocation of mains, or otherwise.

In cases where service lines are frozen, the Owner shall, at his expense, thaw out the customer facility. To avoid a recurrence of freezing, the Borough will make an examination of the customer facility, and if it is not at a depth of 3-1/2 feet, as required, the Borough shall have the right to require it to be relocated to a depth of 3-1/2 feet at the cost of the customer, before service is resumed.

- 69. LENGTH OF SERVICE LINE:** The Borough, in its sole discretion, may require the customer to construct, at his expense, a frost proof meter pit provided with a suitable cover and in accordance with the Borough's outside meter pit installation detail, said meter pit to be constructed at the property or curb line and to be used for the housing of the meter required for the service of the "premises".

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 70. PENALTY FOR PLACING OBSTRUCTIONS OVER, IN, OR AROUND CURB BOXES:** If obstructions are placed over, in, or around curb boxes in such manner as to prevent normal operation of the curb stop, or to result in damage to the curb box, curb stop or service line, the Borough will shut the water off at the curb stop, plug the curb box, or disconnect the service line, or turn the water off at the corporation stop or ferrule, as it may deem necessary. Before service will be renewed, the customer shall pay to the Borough the expenses incurred in shutting the water off and turning it on again, including the cost of: necessary trenching, backfilling, cutting and replacing pavement, sidewalk, or curbing, any municipal permit or permits for opening the pavement, and also shall settle any unpaid bill for water or other service and make a satisfactory deposit to insure the payment of future water bills, the minimum deposit to be in the amount established by the Borough's schedule of rates and charges.
- 71. SERVICE LINE CONNECTION ON PRIVATE PROPERTY:** Service line connections will not be installed on property other than that of the premises to be furnished water.
- 72. ONE SERVICE CONNECTION FOR EACH CUSTOMER:** A service line will be used to supply a single customer only, and no premises shall have more than one service connection except where impossible or impracticable to furnish an adequate water supply service thereto through one service connection; in which event, the Borough may agree to the installation and use of more than one such connection.
- 73. SINGLE SERVICE LINE WITH TWO OR MORE CUSTOMERS:** Where two or more customers are supplied through a single service line, any violation of the Rules of the Borough by either or any of said customers, shall be deemed to be a violation as to all; unless said violation is corrected after reasonable notice, the Borough may take such action as can be taken for a single customer, except that such action shall not be taken until the innocent customer who has not violated the Borough's Rules, has been given a reasonable opportunity to attach his service pipe to a separately controlled service connection.
- 74. OTHER CUSTOMER FACILITY REQUIREMENTS:** The Borough reserves the right to require any owner to install on, or in conjunction with, his service pipe such valves, stop cocks, check valves, relief valves, pressure regulator, air chamber, tank, float valve or other apparatus of approved design, when and where, in the Borough's opinion the conditions may require such installation for the purpose of safeguarding and protecting the Borough's property or water supply.

Should the use of water through a service line connection become excessive during periods of peak use, and cause a substantial decrease in pressure in the distribution system of the Borough to the extent that normal water service to other customers is impaired, the Borough exercises the right to require the installation of properly designed and adequate storage facilities on the system of the premises involved.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Said facilities shall include all piping, valves, fittings, storage structures, pumps, automatic controls, and other such appurtenances as are required to permit the storage of water and delivery therefrom during periods of peak water use on the premises, thereby avoiding a direct use from the system of the Borough during such periods. The basic design of such systems shall be subject to approval by the Borough.

When steam boilers take a supply of water directly from the service pipe, depending upon the hydraulic or hydrostatic pressure in the pipe system of the Borough for their supply under working pressure, it will be at the risk of the parties making such attachments, as the Borough will not be responsible for any accidents or damages to which such devices are frequently subject.

House boilers for domestic use must in all cases be provided with vacuum valves to prevent collapsing when water is shut off from the distributing pipes. The Borough will in no case be responsible for accidents or damages resulting from failure to observe this rule or due to conditions in the distributing pipes, or from the imperfect action of any such valves, or due to such other causes.

- 75. CHANGE IN LOCATION OF SERVICE LINE CONNECTION:** The customer shall pay for the cost of relocation of all service line connections made at his request or for his convenience.
- 76. RENEWAL OF SERVICE LINE:** When renewal of service line from the street main to the curb is found necessary, the Borough will renew said service in the same location as the old one. If the property owner or customer, for his own convenience, desires the new service line at some other location and agrees to pay all expenses of such relocation in excess of the cost of laying the service line in the same location as the old service line, and cutting off and disconnecting the old service line, the Borough will lay the new service line at the location desired.
- 77. USE OF CURB STOPS:** Curb stops at the curb line shall not be used by the customer for turning on or shutting off the water supply. The control of the water supply by the customer shall be by means of a separate stop cock located in general, just inside the building wall. Curb stops are for the exclusive use of the Borough.

SECTION VI - METERS

- 78. GENERAL:** All meters, unless otherwise indicated, will be furnished and installed by the Borough, subject to the fees currently in effect, will remain the property of the Borough, and be accessible to and subject to the Borough's control and maintenance. Meters of the fire type will not be installed for general service. A meter will be required for each premises except as otherwise provided herein.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 79. METER SIZE:** The Borough reserves the right in all cases to stipulate the size and type of the meter to be installed on each service 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 water capacity, and reserves the right to charge the fees currently in effect for the larger meters.

The minimum size of a meter installed shall be the same size as the 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 Borough.

- 80. LOCATION:** The location for the meter shall be subject to the approval of the Borough, 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 street main.

In cases where it is not practical to place the meter within a building, the Borough requires the property owner to construct, inside the property line, a watertight frost proof meter pit provided with a suitable cover in accordance with the Borough's outside meter pit installation detail.

- 81. INSTALLATION OF METER AND RELATED PIPING:** All piping, fittings, valves, check valves, gauges, bolts, nuts, meter pit structures, manholes, 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 Borough, who shall cooperate with the Borough and install all 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 Borough. The meter related piping shall be installed in accordance with the Allegheny County Plumbing Code or any successor regulation.

The customer shall furnish and install on the service line: a gate valve without waste, the same size as the service line on the street side; pressure regulator and a valve on the outlet side and immediately after the meter. A suitable backflow preventer shall be furnished and installed by the customer at a point between the stop and waste cock or valve and the meter. A safety valve shall be also furnished and installed by the customer at a convenient point in the house piping to relieve excess pressures due to heating of water. The Borough recommends a thermal expansion absorber system also be installed by the customer as a safeguard against failed or non-functioning pressure relief valves. Such installation is illustrated in the thermal expansion absorber detail.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

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 Borough when repairs to or replacement of the meter is necessary, the Borough 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 Borough requires more than one meter, bills will be rendered separately for each meter, the minimum charges therefore also to apply.

- 82. MAINTENANCE, CARE AND RESPONSIBILITY FOR DAMAGE:** The Borough will maintain all meters at its expense, except the customer is liable and responsible for damage to meters located at the customers premises caused by the act or omission of the customer. In the event of damage to or malfunctioning of the meter, the customer shall promptly notify the Borough. The Borough will furnish and set another meter to replace the one damaged. The repair costs including replacement parts, labor and transportation charges, testing and reinstallation, shall be the responsibility of the customer.
- 83. METER TESTS:** All meters are tested for accuracy before installation and thereafter are periodically tested.

Should the customer at any time doubt the accuracy or correctness of the meter measuring water delivered to the customer's premises, the Borough will, upon a written request of the customer, and if he 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, a fee determined from the schedule indicated shall be paid to the Borough by the customer requesting such test; but if not so found, then the cost thereof shall be borne by the Borough. When making such request, the customer shall agree to the basis of payment herein specified or as currently in effect.

A report of such tests shall be made to the customer, and a complete record of such tests shall be kept by the Borough. The amount of the fee shall be the charge established by the Borough for the size of the meter being tested in accordance with the prevailing schedule of rates and charges adopted by the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Rates for testing meters not included in the above classification, or which are so located that the cost is out of proportion to the fee specified, will be furnished by the Borough after an estimate 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 in registration in excess of four percent (4%), the cost of the test will be borne by the Borough, and the advance fee will be refunded. The bill, based on the last reading of such meter or meters, shall be corrected accordingly. This correction shall apply both for over and under registration.

The Borough reserves the right to remove and test any meter at any time at its own expense and, if such meter is found to be inaccurate, to substitute another meter of the same size in its place, either permanently or temporarily.

- 84. 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.
- 85. SEALS:** No seal placed by the Borough 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 Borough or in the presence of an Borough representative. Where the seal is broken, the Borough reserves the right to remove the meter for test at the expense of the customer, even though said meter registered accurately.
- 86. 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 Borough for water used, lost, stolen or otherwise wasted through the water meter.
- 87. READING AND REGISTRATION OF METERS:** Readings of meter shall be taken monthly or quarterly, at the option of the Borough, 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 Borough, 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 Borough and to the customer.
- 88. ACCESS TO METER, ETC.:** The Borough, at all reasonable times, shall have access to meters, service connections, and other property owned by it on customer's premises, for the purpose of maintenance, operations and meter reading. The failure to permit reasonable access shall be sufficient cause for discontinuance of service.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 89. FAILURE TO PROVIDE ACCESS TO METERS, ETC.:** Should Borough's agent empowered to read meters be unable to obtain access for two consecutive, regular periods of meter reading, the Borough's agent may notify the customer of his default by leaving a notice on the premises that the customer must arrange for access for the Borough meter reader within five days during normal working hours. Should customer fail to make such arrangements for meter reading during such period, a notice shall be given, either by registered mail or by delivery to an adult member of customer's household on the premises. Said notice shall advise that water service will be discontinued five days after mailing or service of the notice, unless customer has ceased to be in default under the terms of these Rules and Regulations. For each notice of discontinuance, as provided in this paragraph, a penalty shall be imposed. This penalty shall be in addition to any charge made under these Rules and Regulations because of a renewal of service after discontinuance, and will be assessed at the prevailing schedule of rates and charges adopted by the Borough.
- 90. NOTIFICATION RELATIVE TO CONDITION OF METER:** The customer shall notify the Borough of damage to, or malfunctioning of the meter, or of the breaking of the seal or seal wire, as soon as he is cognizant of such a condition.
- 91. MINIMUM CHARGE:** Every meter is installed 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. Such minimum charge shall be nonabatable for a nonuser of water, and noncumulative against subsequent consumption. In the case of fractional bills covering less than a month or a quarter, monthly or minimum charges and allowances shall be prorated.

SECTION VII - SERVICE

92. DISCONTINUANCE OF SERVICE:

- a. **By Customer:** Any customer may terminate his service contract with the Borough by reason of moving permanently away from the premises, and have his water service discontinued upon giving written notice thereof to the Borough, and upon the lapse of a reasonable time thereafter to permit the Borough to take final meter readings and attend to other details in connection with such discontinuance of service. The customer shall remain liable for water furnished to the premises described in his application until the Borough has received written notice from him and the termination of service has taken effect as stated above.
- b. **By Borough:** Service under any application may be discontinued after due notice for any of the following reasons:
- c. For misrepresentation in the application.
- d. For the use of water for or in connection with, or for the benefit of, any premises or purposes other than those described in the application.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- e. For willful waste of water through improper or substandard pipes, fixtures or otherwise.
- f. For failure to maintain in good order the service lines and fixtures owned by the applicant.
- g. For tampering with or in any other way interfering with any service pipe, meter, meter box, curb stop, curb box or with any seal on any meter or other fixtures and appliances of the Borough.
- h. For continued vacancy of the premises.
- i. For refusal of reasonable access to the premises for purposes of inspecting the piping, fixtures and other water system appliances therein, or for reading, caring for, repairing or removing meters.
- j. For neglecting or refusing to make or renew advance payments where required or for nonpayment of water service or any other charge accruing under the application.
- k. For making or refusing to sever, upon notice, any cross connection between a pipe or fixture carrying water furnished by the Borough and a pipe or fixture carrying water from any other source.
- l. For resale of water except where subject to a special agreement.
- m. For premises where the demand for water is greatly in excess of past average or seasonal use, or where such excessive demands for water by the premises are or may be detrimental or injurious to, or make inadequate, or in any way impair water service furnished to other customers.
- n. For premises where apparatus, appliances or equipment using water is dangerous, unsafe and/or not in conformity with any laws or ordinances.
- o. For fraud or abuse.
- p. For violation of these Rules and Regulations or other requirements governing the supply of water furnished by the Borough.
- q. In the event of discontinuance of service by the Borough, the customer may appeal the termination of service by requesting an administrative hearing with the Board of the Borough or at the discretion of a representative designated by the Borough.

93. 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 Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 94. TURN-OFF WITHOUT AUTHORIZATION:** The customer shall not turn the water on or off at any corporation stop or curb stop, disconnect or remove the meter, or permit its disconnection or removal without the consent of the Borough.
- 95. SUSPENSION OF SERVICE DUE TO EMERGENCY:** The Borough shall have the right, as necessity may arise, in case of breakdown, emergency, or for any other unavoidable cause, to cut off the water supply temporarily in order to make necessary repairs, connections, and other such work. The Borough will use all reasonable and practical measures to notify the customer of such discontinuance of service. In such cases the Borough shall not be liable for any damage or inconvenience suffered by the customer, or any claim against it at any time for interruption in service, lessening of the supply, inadequate pressure, poor quality of water or for any causes beyond its control; such temporary shut-off of the water supply shall not entitle the customer to any abatement or deduction in or from the water service charges, nor the refund of any portion of such service charges paid in advance during or for the time of such shutoff. When a supply of water is to be temporarily cut off, notice will be given, when practicable, to all customers affected by the shut off, stating the probable duration of the interruption of service and also the purpose for which the shut-off is made. Nothing in these Rules contained, however, shall be construed as a guarantee, covenant or agreement of the Borough to give notice of any shut-off due to emergency or otherwise.
- 96. RESERVE SUPPLY:** The Borough shall have the right to reserve a sufficient supply of water at all times in its storage facilities, to provide for fire and other emergencies, or may restrict or regulate the quantity of water used by customers in case of scarcity or whenever the public welfare may require it.

SECTION VIII - PUBLIC FIRE SERVICE

- 97. APPLICATION FOR FIRE HYDRANT AND LOCATION:** A written application prepared on the form furnished by the Borough must be submitted by any municipality that is served water by the Borough, for the purpose of requesting the installation of public fire hydrants, said application to be signed by duly authorized officials of the municipality.

The application must be accompanied by a plan showing the proposed location of each fire hydrant on the public highway or public property, showing the line and grade of the highway or area, and such other data.

The Borough will determine whether proper service can be furnished at the fire hydrant under normal and ordinary conditions, subject to: the size of the existing street main, the sizes of the lines in the surrounding distribution system, the available pressures, and to such other factors. The municipality will be advised relative thereto.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The entire cost of a fire hydrant installation shall be paid in accordance with the agreement governing its installation. A developer of a housing plan or commercial development or any individual, group, organization, municipality, or any other such organization that requests of the Borough to extend its facilities in order to receive water service, will be required to pay for the entire cost of installing all fire hydrants required by the municipality. The local municipality will determine the number and location of all fire hydrants along the new water line installation and whoever pays for the water line extension will be responsible for all costs associated with the fire hydrant installation.

A fire hydrant installation is intended to include a tee and other fittings required in the main line, a branch 6-inch line extending from the tee placed in the main line to the fire hydrant, a valve in the 6-inch line and a valve box, a standard Borough fire hydrant, proper blocking of the fire hydrant, the tee and other fittings, and such other work as indicated on the standard plans of the Borough relative to fire hydrant installations.

Each fire hydrant will be subject to the Public Fire Service Charge set forth in the Rate Schedule.

- 98. PENALTY FOR PLACING OBSTRUCTIONS OVER, IN OR AROUND PUBLIC FIRE HYDRANTS:** If obstructions are placed over, in or around in such manner as to prevent normal operation of or to result in damage to the fire hydrant, the Borough will notify the governing law enforcement agency for issuance of the appropriate citation. The customer responsible shall pay to the Borough the expenses incurred in removing the obstruction or making repairs caused by such obstruction including the cost of necessary trenching and backfilling, of cutting and replacing pavement, sidewalk or curbing, and of any municipal permit or permits for opening the pavement.
- 99. MAINTENANCE:** All fire hydrants will be maintained by the Borough at its own cost and expense, provided that any expense for repairs caused by carelessness or negligence of the employees of the particular municipality or the member of the fire department thereof shall be invoiced to the responsible party.
- 100. ALLOWABLE USE:** Only persons authorized by the Borough shall take water from any public fire hydrant or hose plug, except for fire purposes or for the use of the fire department in case of fire; and no public fire hydrant shall be used for sprinkling streets, flushing sewers or gutters or for any other than fire purposes, except with the approval and issuance of a permit by the Borough, said permit being subject to revocation at any time.
- 101. CHANGE OF LOCATION:** Whenever a municipality or person or persons desire a change in the location of any fire hydrant, the Borough, upon written notice to do so, will make such a change if determined feasible, at the expense of the municipality or persons or persons.
- 102. INSPECTION:** Upon request of the duly authorized officials of any municipality, the Borough will make inspections at convenient times and at reasonable intervals to determine the condition of the fire hydrants, such inspections to be made by a representative of the Borough and a duly authorized representative of the municipality.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

SECTION IX - PRIVATE FIRE SERVICE

103. APPLICATION FOR PRIVATE FIRE PROTECTION SERVICE: A written application prepared on the form furnished by the Borough must be submitted to the Borough for the purpose of requesting a special fire connection for private fire protection service, said application to be signed by the owner of the premises or his duly authorized agent, said application to be subject to such fees and terms and conditions as are hereinafter set forth and included therein, and to the execution of a contract, which application, together with the Rules and Regulations of the Borough, shall regulate and control the furnishing of such services to such premises, and said application to be submitted at least two months before the service line is required.

The application shall be accompanied by accurate plans showing the proposed fire protection system and appurtenances and showing any other water supply system and appurtenances which may exist on the premises. No fire protection facilities involving the use of Borough water shall be installed at any time and no changes in or additions to said fire protection facilities shall be made without prior approval by the Borough, said fire protection facilities to include all pumping and/or mechanical means of taking water from the Borough system, storage stands and all such facilities. All approvals will be subject to Section X Responsibility for Fire Service and shall be subject to such restrictions and limitations as established by the Borough.

104. APPROVAL OF APPLICATION: The application does not bind the Borough to approve the requested special connection. The Borough will make an engineering study of each proposed installation to determine whether such a connection is reasonable and practical, and whether such a connection will in any way endanger the general water service in the vicinity; the Borough reserving the right to refuse approval of an application relative thereto. The Borough further reserves the right to make an approval subject to the installation of adequate storage facilities and related appurtenances on the premises thereof, if found necessary in order to permit maintenance of adequate water service to other customers.

105. TERMS AND CONDITIONS: The final approval of an application and furnishing of private fire protection service will be subject to the execution of a contract between the responsible parties and the Borough, containing the following terms and conditions and containing such other terms and conditions as are found necessary:

- a. That the applicant agrees to pay all costs associated with review and approval of the application.
- b. That the Borough, by its representatives, shall have the right to enter the premises of the applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it shall have the right to attach any testing device or use any means which it may elect to ascertain the condition of the pipe and appurtenances and uses made of same.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- c. That a separate service connection from the street main up to and including the curb or valve box and control valve shall be installed solely for the purpose of providing fire service and at the expense of the applicant and shall be maintained by the Borough; that all other pipe, fixtures and appurtenances shall be installed in accordance with the requirements set forth relative to service line and/or water main extensions and maintained in good condition by and at the expense of the applicant.
- d. That the applicant shall install at the applicant's expense, a detector device on said service line at such location as may be required by the Borough. Such detector device shall be a weighted disc check valve equipped with external metered by-pass. Such detector device shall be maintained by the Borough and shall be subject to the control of the Borough.
- e. That the applicant does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of a fire is desired by the applicant, then same shall be taken only through a service pipe separately connected with the street main of the Borough and not connected directly or indirectly with the service pipe contemplated by this application. The Borough may consider approval of alternate designs contrary to this condition, under special service conditions. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the Rules and Regulations of the Borough.
- f. That the applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank openings and appurtenances contemplated in this application. Such sketch may also show any other water supply system and pipelines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipe connected to the Borough's mains.
- g. That the rights and obligations of the applicant hereunder shall be further subject at all times to the Rates, Rules and Regulations of the Borough that now exist or which may hereafter be adopted.
- h. That the applicant agrees to obtain in advance the approval of the Borough.
- i. That, subject to acceptance by the Borough of the completed facilities, the contract shall continue as such until cancelled by written notice, given 30 days in advance, by the applicant to the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- j. That the Borough has the right to discontinue or disconnect said service pipe and terminate the contract, upon written notice given 30 days in advance by the Borough to the applicant, for failure to pay any bill when due or for any violation of any of the terms and conditions of this application, or for any violation of its Rules; and, in emergencies, also has the right, without notice, to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Borough for the purpose of making any repairs, alterations, additions or to prevent possible contamination through cross-connected facilities of the applicant or to prevent negligent or willful waste of water through the facilities of the applicant.

106. GENERAL CONDITIONS - PRIVATE FIRE HYDRANTS: The private fire hydrant or fire hydrants installed on a separate fire service main, subject to all the foregoing requirements, will be subject to rate schedule charges set forth under Private Fire Service, subject to a special contract and to the Rules and Regulations controlling such service.

When a hydrant is to be located within the yard of the customer's premises, the entire installation, from the street main to and including the hydrant, shall be installed at the expense of the customer.

Such connections, where allowed, are to be used solely for the extinguishment of fire and for no other purpose, except upon the written consent of the Borough; and any violation of this provision shall be cause for the cancellation of the contract and discontinuance of the service.

The listed rate for each private fire hydrant shall apply regardless of whether the installation is made by the Borough or at the expense of the customer.

The Borough reserves the right to access and utilize any private fire hydrant, regardless of location, for the purpose of maintaining the water distribution system.

107. COST OF FIRE SERVICE CONNECTION: All service connections for private fire service, shall be installed by the Borough and the customer will be charged with all direct and indirect costs incurred by the Borough as a result of making said connection. Such costs shall be in addition to tapping fee.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

SECTION X - RESPONSIBILITY FOR PUBLIC OR PRIVATE FIRE SERVICE

108. RESPONSIBILITY FOR SERVICE: It is agreed by the parties receiving public fire service, private fire service or any other service, that the Borough does not guarantee any special service, pressure, or capacity of facility other than is permitted by the ordinary and changing operating conditions of the Borough, as the same exist from day to day. It is agreed by the parties receiving service that the Borough shall be free and exempt from any and all claims for injury to any persons or property by reason of fire, water, failure to supply water pressure or capacity.

SECTION XI - BILLS AND PAYMENT

109. PLACE OF PAYMENT: All bills are payable at any office or any pay agency as designated by the Borough.

110. BASIS FOR PREPARATION OF BILLS: All bills for service furnished by the Borough will be based on the published Rate Schedule of the Borough.

Each metered customer served will be subject to a fixed minimum monthly or quarterly charge, consisting of a set quantity of usage allowed based on the size of the meter or meter installation with additional consumption or usage to be billed in accordance with the Rate Schedule. Such minimum charge shall be nonabatable regardless of actual use, and noncumulative against subsequent consumption. In the case of fractional bills covering less than a month or a quarter, monthly or minimum charges and allowances of water shall be prorated.

The charges for the use of water in excess of the quantities allowed for each size meter will be in accordance with the section Meter Quantity Charges, as set forth in the Rate Schedule, the allowances of water for the minimum charges to be deducted from the quantities set forth in applying the meter schedule.

111. BILLS RENDERED AND DUE: The Borough will make regular meter readings either monthly or quarterly, at its option, and bills will be rendered as soon as practicable after the reading of the respective meters.

All bills are due and payable within 20 days after the date, thereof and a penalty of ten percent (10%) will be added to all bills if not paid within 30 days after the date of the bill. Acceptance or remittance of bills on the last day of this 30-day period shall be determined by the date of receipt by the Borough or its agent.

A delinquent notice may be served by mail, or personal service. Unless the bill is paid within thirty (30) days after service of the delinquent notice service will be discontinued.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The customer shall have the right of an administrative hearing, which hearing shall take place at the regularly scheduled meeting of the Borough following the thirty (30) day period unless otherwise directed by the Borough.

If service is thus discontinued, it will not be restored until all unpaid bills and charges, including the turn-on charge, are paid or until satisfactory arrangements are made for payment. The satisfactory arrangements must include the payment in cash of any turn-on charge currently in effect.

For any check received by the Borough payment which is returned unpaid by the Drawee bank for any reason, the customers account shall be charged bank charges levied against the Borough plus a penalty.

- 112. ABATEMENT:** Customers desiring an abatement from water bills due to vacancies shall give written notice at the office of the Borough, requesting the water to be shut off. Abatement will be made of a portion of the charges in proportion to the period when water has been shut off bears to the entire period. No adjustments on meter bills will be made for any reason other than incorrect registering of meter.

SECTION XII - CROSS-CONNECTION, INTERCONNECTIONS AND BACKFLOW PREVENTION DEVICES

- 113. PURPOSE AND INTENT:** It is the purpose and intent of these regulations to protect the community potable water system of the Borough from the possibility of contamination or pollution by isolating within its customers private water distribution system or systems, such potential contaminant of the Borough system. It is the intent of this regulation to provide for the maintenance of a continuing program of cross connection control which will systematically and effectively prevent contamination or pollution of the water distribution system of the Borough.

All customers where applicable within the water system of the Borough shall as a condition precedent to receiving service where there exists cross-connection facilities in their plumbing fixtures be required to have a program of backflow prevention which will systematically and effectively prevent the possibility of contamination or pollution of water within the water system.

Any customer or rate payer of the Borough whose plumbing system necessitates the need for elimination or control of cross-connections shall be required as a condition of receiving service to have backflow preventers installed, of such design, size and quantity so as to effectively meet the requirements of Federal and State Clean Water Drinking Acts, their amendments, as well as all county, or municipal health codes and municipal building code requirements.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Any customer or rate payer of the Borough who fails to establish an acceptable backflow prevention system shall have his/her or its service terminated until such time as these regulations are complied with. In that regard, the Borough requires that as a condition of service the customer or rate payer shall install backflow prevention devices as described herein and failure to install same will require and/or cause the Borough to withhold service until such time as the backflow preventer or some other acceptable system has been installed.

114. BACKFLOW PREVENTION DEVICES:

- a. In selecting for use the devices outlined herein, it is vital that the degree of protection provided be commensurate with the degree of hazard present. It is also important that the limitations of each device be understood since the degree of protection provided will depend on the type of backflow prevention device and the maintenance program employed.

Acceptable backflow prevention devices used for cross-connection control are as follows:

- i. Air Gap
- ii. Reduced Pressure Principal Devices*
- iii. Double Check Valve Assembly*

*RPPD's and DCVA's should conform to AWWA Standard C506-78

- b. The following list outlines the recommended type of backflow prevention devices which should be installed for the protection of a community water supply. This is a partial list and is not intended to supplant any ordinances or standard developed by the Environmental Protection Agency (EPA), Pennsylvania Department of Environmental Resources (PADER) or the Allegheny County Health Department (ACHD).

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Plant or Facility

		Air Gap	RPPD	DCVA
1	Automatic Car Wash	X	X	
2	Automatic Plants	X	X	
3	Auxiliary Water Systems	X	X	
4	Beverage Bottling Plants			X
5	Breweries or Distillers	X	X	
6	Chemical Plants	X	X	
7	Dairies and Cold Storage Plants			X
8	Dye Works	X	X	
9	Film Processing	X	X	
10	Irrigation Systems	X	X	
11	Laboratories	X	X	
12	Laundries			X
13	Meat Packing and Reduction Plants	X	X	
14	Metal Plating Plants	X	X	
15	Paper and Paper Products	X	X	
16	Petroleum, Gas Processing or Storage	X	X	
17	Plating Plants	X	X	
18	Power Plants	X	X	
19	Rubber Plants	X	X	
20	Sewage or Storm Water Treatment Plants and Pump Stations	X		
21	Cross Connections	X	X	
22	Radioactive Materials Processing or Handling Plants	X		
23	Manufacturing, Processing, or Fabricating Plants Utilizing Toxic Materials	X	X	
24	Manufacturing, Processing, or Fabricating Plants Utilizing Non-Toxic Materials			X

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Buildings

		Air Gap	RPPD	DCVA
1	Single Family Home			X
2	Convalescent Home			X
3	Medical Clinic	X	X	
4	Medical or Dental Building	X	X	
5	Multipurpose Commercial Building			X
6	Office Building			X
7	Hospitals	X	X	
8	Home for the Aged			X
9	Mortuary	X	X	
10	Morgue	X	X	
11	Nursing Home			X
12	Schools			X
13	Schools with Laboratories	X	X	
14	Apartment or Hotel with Restaurant			X
15	Apartment or Hotel			X
16	Apartment or Hotel with Sewage Ejector	X	X	
17	Apartment or Hotel with Pump House or Water Storage Tank			X
18	Public Building (Federal, State or City):			
	Potential Health Threat			
	Potential Pollution Threat	X	X	
	Restricted or Classified Facility			X
19	Restaurant or Food Handling Facility		X	X
20	Supermarket			X
21	Buildings with Sewage Ejectors	X	X	

Municipal Water Systems

		Air Gap	RPPD	DCVA
1	Connection of Two Water Systems			

Fire Protection Systems

		Air Gap	RPPD	DCVA
1	Any System with Pumper Connection			X
2	Any System with Auxiliary Water Source		X	X
3	Any System Utilizing Anti-Freeze		X	

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

115. RESPONSIBILITY: The Borough shall exercise reasonable diligence to insure the customer takes proper precaution in order to protect the community water system from contamination or pollution due to backflow through the water system connection. The Borough or designated agent shall determine the degree of hazard to the community water system, and require, at the customer's expense, installation of an approved backflow prevention device at the water service connection, commensurate with the degree of hazard. The Borough or its designated agent also shall give notice in writing to said customer to install such an approved backflow prevention device at each service connection. The Borough or its agent shall require at the customer's expense annual or more frequent testing, proper maintenance and repair, and adequate records of each test and subsequent repair, including material or replacement parts for each installed and approved backflow prevention device. The customer as a condition of service or continued service must send to the Borough the written test results and/or repair information on forms supplied by the Borough. Failure, refusal, or inability on the part of the customer to install, test, maintain, repair, or keep record of safety devices, shall constitute a ground for the Borough to discontinue the water service of said customer. The testing of backflow prevention devices shall be done only by individuals who are deemed as qualified and approved prior to said testing by the Borough.

116. PROHIBITION OF CROSS CONNECTIONS:

- a. No water service connection to any customer shall be installed or maintained by the Borough unless said connection is protected as required by these rules and regulations. Service of water to any customer shall be discontinued by the Borough or its agents if any approved backflow prevention device required by these rules and regulations is: (a) improperly installed or (b) not installed or (c) not regularly tested and maintained, or (d) removed, bypassed, or inaccessible to the Borough's water system personnel or agents for the purpose of inspection or testing. Also, water service to any customer shall be discontinued by the Borough if adequate records of test results for approved backflow prevention devices are not kept and forwarded in writing to the Borough on forms provided by the Borough.
- b. Delivery of water shall be discontinued immediately and without notice to the customer if a duly authorized regulatory agency determines that the Borough water distribution system is in immediate danger of being contaminated or polluted.
- c. Delivery of water shall not be discontinued until written notice thereof has been given to the customer pursuant to Section 111 of these Rules and Regulations.
- d. In the case of discontinuance of service for violation of this section of the Rules and Regulations, said notice shall state the conditions or defects which must be corrected and the date on or after which delivery of water will be discontinued which shall not be less than fifteen (15) days nor more than ninety (90) days following the date of mailing of the notice. The Borough or its agent may grant to the customer an extension of an additional period not to exceed ninety (90) days if in the Borough's opinion the customer has exercised due diligence but has been unable to comply with the notice within the time period originally given.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- e. The customer's water system shall be opened for inspection at all reasonable times to authorized representatives of the Borough or its agents, to determine the adequacy of backflow prevention device records, whether cross connections or violations of these rules and regulations exist, the degree of hazard to the Borough water distribution system or for the inspection and operational testing of backflow prevention devices. Each customer as a condition of the continued delivery to said customer's premises of community water supply shall be considered as having consented to entry upon said customer's premises by Borough personnel for the purposes stated herein

- f. An approved backflow prevention device shall be installed at the expense of the customer on each service connection after the water meter or immediately inside the building being served, but, in all cases, before the first branch line leading off the service connection lines wherever the following conditions exist:
 - i. In the case of the customer having an auxiliary water supply which is not approved by a duly authorized regulatory agency or not acceptable to the Borough, the community water supply shall be protected by installation of an approved backflow prevention device in the customer's service line or lines.

 - ii. In the case of the customer having any industrial fluids or any other objectional substance being handled in such a manner as to create an actual or potential hazard to the community water system, the community water supply shall be protected by installing an approved backflow prevention device in the customer's service line or lines. This shall include handling of water originating from the community water supply system which has been subject to deterioration in quality.

 - iii. In case of: 1) the premises having one internal cross connection which cannot be permanently corrected; 2) controlled or intricate plumbing and piping arrangements or 3) entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not cross connections or the degree of hazard they impose exist, the community water system shall be protected by installing an approved backflow prevention device in the customer's service connection line or lines.

- g. The type of backflow prevention device required herein shall depend upon the degree of hazard, as determined by the Borough or its designated agent, which exists as follows:
 - i. In the case of health hazards as defined in the definitions hereto, a reduced pressure principal device (RPPD) or air gap (AG) shall be installed in the customer's service line or lines at the customer's expense.

 - ii. In a case of pollution hazards as defined, a double check valve assembly (DCVA) shall be installed in the customer's service line or lines at the customers expense.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- h. All presently installed backflow prevention devices, which do not meet the requirements of an approved device and which can be shown to have been adequately inspected, tested, and maintained, shall be acceptable and approved as long as the Borough is assured that these devices can adequately protect the community water system. If, however, the existing device is moved from its present location, requires more than minimum maintenance, or maintenance will constitute a health hazard, the device must be replaced by an approved device.
- i. No customer shall alter, bypass or render ineffective or inoperable any approved backflow prevention device covered by these rules and regulations.

SECTION XIII - GENERAL

- 117. AVAILABILITY - RULES AND REGULATIONS:** Copies of these Rules and Regulations Governing Water Service are available for inspection at the office of the Borough at all times during regular working hours. Copies of these Rules and Regulations are available for purchase in accordance with the current Schedule of Rates and Charges.
- 118. EFFECTIVE DATE - RULES AND REGULATIONS:** These Rules and Regulations shall be in full force and effect upon adoption by the Borough.
- 119. SEVERABILITY - RULES AND REGULATIONS:** The provisions of these Rules and Regulations are severable and if any provision, sentence, clause, section, part or application thereof shall be held illegal, invalid or unconstitutional shall not affect or impair any of these remaining provisions, sentences, clauses, sections, parts, or applications. It is hereby declared to be the legislative intent that these Rules and Regulations would have been adopted if such illegal, invalid, or unconstitutional provision, sentence, clause, section, part or application had not been included herein.
- 120. AMENDMENTS - RULES AND REGULATIONS:** These Rules and Regulations can be amended, in whole or in part, at any time and from time to time by the Borough.
- 121. INSPECTION:** Authorized employees of the Borough, identified by proper identification tag, 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 and customer facilities; inspection, setting, reading, repairing and removal of meter; and for all such justifiable purposes.
- 122. INTERFERENCE WITH BOROUGH'S PROPERTY:** No workmen, owner, tenant or otherwise unauthorized person shall turn the water on or off at any corporation cock or curb cock or break the seals, disconnect or remove the meter, or otherwise interfere with the Borough's property.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

For unauthorized operation of street valve, curb stop, service cock or other service connection, 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 all costs required in connection with damage to these facilities.

- 123. SERVICE OF NOTICES:** All notices and bills relating to the Borough 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 Borough. The Borough will send all such notices and bills to the address given on the application for water supply until a notice of change, in writing, has been filed with the Borough by the applicant.

All notices of a 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 Borough.

- 124. 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 Borough.

- 125. SERVICE NOT GUARANTEED:** Nothing in these Rules, nor any contract, nor representation, verbal or written, of the Borough or any of its employees shall be taken or construed in any manner to be or constitute a guarantee to furnish a proper quantity of water through any service connections, whether for domestic, commercial, industrial, manufacturing or other general uses, or for public or private fire protection purposes, or for any other special purposes; but the Borough will at all times and under all conditions endeavor to maintain the efficiency of its service.

The Borough shall have the right to temporarily cut off the water supply in the case of breaks, emergencies or for any other reasonable cause, in order to make necessary repairs, connections and do such other work. In such cases, the Borough shall not be liable for any damage or inconvenience or any claim for interruption of service, lessening of supply, inadequate pressure, poor quality of water, and such other reasons.

- 126. WATER QUALITY TESTS:** The Borough is required to comply with the Federal Safe Drinking Water Act.

Should the customer or the Borough at any time doubt the quality of water delivered to the customer's premises, the Borough will, upon a written request of the customer, and if he so desires in his presence or that of his authorized representative, collect samples and conduct analyses of the samples. The specific analyses to be performed will be selected at the discretion of the Borough and the testing will be performed by a State certified laboratory selected by the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

If the water samples, so tested shall be found to be within the limits herein specified, a fee determined from the schedule indicated shall be paid to the Borough by the customer requesting such test; but if not so found, then the cost thereof shall be borne by the Borough. When making such request, the customer shall agree to the basis of payment herein specified or as currently in effect.

- 127. RESTRICTION OF SUPPLY:** The Borough reserves the right to restrict the supply of water in case of scarcity or whenever the public welfare may require it, and to reserve a sufficient supply of water at all times in its reservoirs to provide for fire and other emergencies.
- 128. GROUND WIRE ATTACHMENTS:** All customers are forbidden to attach any ground wire or wires to any plumbing which is or may be connected to a service connection or main belonging to the Borough, and the Borough will hold the customer liable for any damage to its property occasioned by such ground wire attachments.
- 129. WATER HAMMER:** No use of water will be permitted which may or does cause water hammer.
- 130. ACTS OF BOROUGH EMPLOYEES AND/OR OTHERS:** No agent or employee of the Borough shall have the power or right to bind the Borough by any promise, agreement, or representation contrary to these Rules and Regulations.
- 131. SWIMMING POOLS:** The filling of swimming pools and other work relative thereto shall be subject to the prior approval of the Borough, notice thereof to be given by the applicant for such approval at least 72 hours in advance of such action. The filling of swimming pools shall, in general, be subject to the following:
- a. The rate of filling shall not be excessive and/or cause any disturbance or serious pressure drop in the Borough system, and be subject to approval of the Borough.
 - b. The lines extending to and around the swimming pool shall be thoroughly flushed until the water is clear, and if necessary, the water shall be passed through the pool filters prior to discharge into the pool or pools. The pool shall be thoroughly flushed and cleaned before closing of the drain valves.
 - c. No chlorine shall be added to the pool water during the initial filling, except ahead of the filters, and the filter and recirculating systems shall be maintained in constant use during filling. If no filter system exists, the owner and/or operator must accept full responsibility for causing, through the use of chlorine, the precipitation of iron and manganese and such other constituents, and possibly causing discoloration of the water.
 - d. No swimming pool shall be filled except through a metered connection unless otherwise approved.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 132. MISCELLANEOUS WORK AND SERVICES FURNISHED BY THE BOROUGH:** The cost of repair and/or restoration of Borough facilities damaged due to the actions of others, including the cost of lost water, shall be paid for by those responsible therefore.

The cost of the foregoing work and any miscellaneous services furnished by the Borough, except as otherwise set forth herein, shall be determined based on the charges and/or methods of computing charges as set forth in the schedule of fees and charges in the published Schedule of Rates and Charges, or based on Borough policy.

All bills for such work and services furnished by the Borough shall be based on the current Schedule of Rates and Charges. All bills shall be rendered by the Borough and shall be due and payable in accordance with Section 115 of these Rules and Regulations.

- 133. TAPPING FEES:** The Borough has established schedules of tapping fees for all connections to main water lines, such fees to vary, subject to the conditions under which the main line or lines have been installed, the locations of the main lines to be subject to the size of the connection and such other factors, as set forth in the schedules of tapping fees.

The tapping fees may vary for each size connection, subject to whether the connection is on a line installed by the Borough and/or others, whether the main line is subject to an agreement with others involving reimbursement conditions as related to connections to the line or lines, whether the main line was installed under an assessment program, and to whether there are any other special conditions.

SECTION XIV - WATERLINE EXTENSIONS AND ADDITIONAL FACILITIES

- 134. GENERAL:** No water extension from existing Borough lines shall be installed, no distribution systems and/or pumping or storage facilities shall be constructed or such other work done, without first having obtained approval from the Borough and where required a permit obtained from the Pennsylvania Department of Environmental Resources (PADER). The work shall be in accordance with these Rules and Regulations and requirements of the municipal subdivision in which the facilities will be constructed. All such facilities shall be conveyed at no cost to the Borough.

Prior to any detailed concept or design work occurring, the applicant shall deposit the amount established from time to time by resolution with the Borough and a copy of the property deed indicating ownership of land to be developed. No work shall be commenced by the Borough until an the required deposit has been made.

The applicant shall meet with the Borough Engineer to discuss water service, technical and administrative concepts, Borough's Rules and Regulations and to determine the required additional deposit to be made to the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The applicant must prepare, at its cost, all Contract Plans and Specifications, Right-of-Way Plans, Contract Documents, Reports and other material, and shall prepare and file any applications relative thereto, and shall pay all fees.

- 135. LIMIT OF EXTENSION:** The extension of a water line includes the entire quantity of pipe and appurtenant facilities required to make a complete installation from the end of the existing Borough system to and across 1/2 the frontage of the last property for which the applicant has requested service or of sufficient length such that a perpendicular service connection to the last property is feasible, which ever is the greater distance.
- 136. APPLICATIONS FOR APPROVAL OF EXTENSIONS AND OTHER WORK AND GENERAL REQUIREMENTS RELATIVE THERETO:** Written request must be submitted for the purpose of requesting approval of a water line extension, distribution system, pumping/storage facilities, and/or other work, and the obtaining or furnishing water service therefrom. All such requests shall be subject to the terms and conditions set forth herein and the requirements of the municipal subdivision in which the work will be constructed. The applicant will be required to execute an agreement prepared by the Borough Solicitor. This agreement, together with the Rules and Regulations of the Borough and the requirements of the municipal subdivision, shall regulate and control the construction of all facilities and water service therefrom.

All requests for waterline extensions must be accompanied by plans, specifications, and a report describing the system in detail. The plans must be stamped with the seal of a Pennsylvania Registered Professional Engineer and must be submitted in triplicate. A review submission must be made to the Borough. A final submission must be made and the plans must be approved by the Department of Environmental Resources, and by all other agencies, including Labor and Industry, etc., as required.

Subsequent to completion of the work, the applicant shall submit as-built plans to the Borough. No service will be furnished until these plans are submitted. As-Built plans shall consist of one (1) set of blueprints and one (1) set of reproducible mylars.

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

- 137. RESPONSIBILITY FOR COST:** The entire cost of all work shall be borne by the applicant except, if approved, for the difference in the cost of facilities required for the proposed use and the cost of more adequate facilities that will permit additional service for other areas, the difference to be determined by the Borough's Engineer in accordance with Act 203 of 1990 as amended from time to time of any successor statute.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The cost of such work shall, as a minimum, include the following:

- a. The cost of all water lines, of the size required for the project, none to be less than 8 inches in size unless otherwise approved by the Borough, and of all other appurtenances.
- b. The cost of connections to existing waterlines.
- c. The cost of all grading, landscaping, fencing, and other work if required and approved.
- d. The cost of all land and rights-of-way, the rights-of-way and land to be conveyed to the Borough.
- e. The payment of a minimum of 10% of the total construction costs to defray all legal, engineering and overhead costs, if the project is to be designed and constructed by the Borough. All such costs must be borne by the applicant. If the project is designed and constructed by the applicant, the applicant must pay in advance the Borough costs involved in the review of the Contract Plans and Specifications, field work, legal work, administrative and such other costs in connection with the project. The Borough will determine the amount of estimated advanced costs.
- f. The cost of a resident engineer or inspectors furnished by the Borough 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.
- g. The payment of all tapping, and other fees.

138. PAYMENT OF COST: After the initial deposit, the applicant shall deposit with the Borough, prior to the commencement of any work, a sum of money sufficient to pay all estimated costs of work to be preformed by the Borough. If the Borough approves the construction by the applicant, through a qualified Contractor, the monies to be deposited shall ben sufficient only to cover the cost of engineering, legal and overhead, which costs shall not be less than 10% of the estimated total costs and at no time shall the balance of such deposit be less than \$1,000.00.

139. FINANCIAL SECURITY: When the Borough accepts dedication of the waterline extension following completion, the Developer shall post financial security to secure the structural integrity and functioning thereof in accordance with the design and specifications as depicted on the plans therefor, for a period of eighteen (18) month from the date of acceptance of dedication. Said financial security shall be in the amount of 15% of the actual cost of installation of said improvements. Said financial security may be in the form of cash, a maintenance bond posted with a bonding company authorized to conduct business in the Commonwealth of Pennsylvania, and /or federal or Commonwealth chartered lending institution irrevocable letters of credit and/or restrictive or escrow accounts in such lending institutions.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

140. AGREEMENT: The Applicant shall enter into an agreement with the Borough, prior to the review of construction documents or 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 Borough, except as otherwise indicated.
- b. The materials and workmanship are to be in accordance with the requirements of the Borough.
- c. The highway, streets, alleys, and lanes in which water lines 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 of all installations shall be conveyed to and vested in the Borough except as otherwise indicated.
- e. The Borough is to have the right to make further extensions beyond or laterally from the main extensions. Arrangements for connections to the waterlines constructed by the Applicant will be defined in the agreement.
- f. The payment of refunds to the owner for additional new customers to be subject to such conditions as set forth herein, or as agreed upon, and to a limiting number of years. No refunds are to be made unless from monies received from other consumers for the privilege of obtaining services from the extension covered by the agreement.
- g. Such other related requirements.

141. COMPLIANCE WITH DESIGN AND CONSTRUCTION STANDARDS: All work shall be in accordance with the General Specifications for Waterline Construction and other requirements of the Borough and the Department of Environmental Resources.

142. GENERAL PLANS: In the case of a phased Subdivision, the applicant shall submit a general plan on a scale not smaller than 300 feet to 1 inch and, preferably, not larger than 100 feet to 1 inch, covering the entire area of the water district - and of any extension of any modification of any water system. In the case of a phased development all future waterline locations should be indicated. Approval of the site plan by the municipal subdivision in which the project is located must be indicated on a site plan (Erosion and Control, etc.).

These plans must show the boundary line of the municipality or water district to be provided waterlines; all existing and proposed streets, watercourses, and other salient topographic features; contour lines for intervals of not less than 5 nor more than 10 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 and proposed utilities.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

In all cases, the plans must clearly show the size of the waterline, the character of the pipe material, the grades, the elevation at all points, the location of all appurtenances, and such other data.

- 143. DETAILED PLANS:** The applicant shall submit detailed plans accompanying the general plans.

The waterline plans shall consist of plan and profile. All topographic features, rights-of-way, property ownership, utility lines, service connections, construction details, etc. shall be shown on the contract drawings. The plan scale shall be 1"=50' and the vertical scale shall be 1"=10'.

All stream crossings shall be indicated. The applicant shall obtain all required stream crossing permits. The applicant shall also obtain all permits and approvals from the appropriate agencies relative to soil and erosion control. A soil and erosion control plan shall be a part of the contract documents.

Particular attention shall be given to any pumping station, pressure reducing, storage tanks or any such facilities. Regardless of the project scope, it is mandatory the applicant hold a predesign meeting with the Borough and its Engineer. In the case of such facility design, the Borough's Engineer at the expense of the applicant will prepare a preliminary design report to be followed by the applicant in the detailed design drawings for the facilities.

Construction specifications prepared in a bound 8 1/2" x 11" booklet shall be submitted with the plans. The text shall be clear and in typed format. All aspects of construction/materials shall be addressed in the specifications. Construction specifications shall be in conformance with the Borough's General Specifications for Waterline Construction.

All construction documents must be submitted to the Borough for review and approval. The Borough reserves the right to make modifications as required to the construction documents. Final approval drawings must bear the design engineer's stamp of the approval. The review signature of the Borough Engineer and Borough representative shall also appear on each drawing.

The submitted Construction documents must comply, at a minimum, with the following standards:

- a. 24 x 36 inch paper with 1 inch border, signed and sealed by a Pennsylvania Professional Engineer.
- b. Plan and Profile on same sheet. Plan at minimum scale of 1'=50' and profile at 1"=50' horizontal and 1"=10' vertical.
- c. Indicate all utilities and compliance with Act 287.
- d. All topographic features with existing and proposed grades at contours no less than 5' foot intervals.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- e. All proposed and existing property lines.
- f. Separate plan for recording right-of-way, streets, etc. that will be filed with the County.
- g. In the case of a subdivision, a master plan of the water utilities showing phased build out.
- h. In the case of a subdivision, a master plan of lots shall be provided to the Borough.
- i. If a facility (tank, pump stations, etc.), contract documents must comply, at a minimum with the requirements of PADER. Drawings shall consist of grading plan, layout, outside piping, flow diagram, hydraulic profile, erosion and sedimentation control plan, mechanical plans, sections and details, architectural plans, sections and details, structural plans, sections and details, electrical plans and single line and control diagrams.

144. REPORT: The application shall be accompanied by an Engineer's report giving a full description of the proposed system and setting forth the basis of design, prepared in accordance with DER requirements.

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 rates or volume of water to be provided for; and such other data and information. Planning Modules, where required, shall be submitted with the report.

Where private fire service, large water demands, high flow rates, etc., exist in the opinion of the Borough special facilities may be required. In special cases the Borough will provide at the applicant access to the system to conduct hydraulic tests to ascertain existing conditions.

145. INSTALLATION SPECIFICATIONS: All water lines shall be installed in accordance with the detailed specifications of the Borough, some of the pertinent requirements being as follows:

- a. The pipe and fittings shall be double cement-lined ductile iron with push- on joint ends, all in accordance with the applicable Specifications of the American Standards Association and of the class required for the pressure conditions in the area and the installation conditions. The pipe shall not be less than six inches in size except as specifically approved by the Borough.
- b. The service lines two inches in diameter and smaller shall be made of first quality, soft copper tubing, Type "K" in accordance with Federal Specifications WWT-799; and the corporation cocks, curb stops and curb boxes shall be of the manufacture as approved by the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- c. The valves shall be in accordance with the Specifications of the American Water Works Association and of the same manufacture as the majority of the fire hydrants on the remainder of the comprehensive system, unless otherwise approved.
- d. The fire hydrants shall be in accordance with the Specifications of the American Water Works Association and of the same manufacture as the majority of the fire hydrants on the remainder of the comprehensive system, unless otherwise approved.
- e. All water lines shall be laid with a minimum depth of cover of 4.0 feet, properly bedded, backfilled, blocked, subjected to a hydrostatic test for leakage and subject to such other requirements. All service lines and service line connections shall be installed in accordance with the detailed Specifications of the Borough.

146. REFUND POLICY: The refund policy of the Borough with respect to water line extensions shall comply with applicable law then in effect.

147. DEVELOPERS HANDBOOK FOR WATERLINE CONSTRUCTION: The Developers Handbook is provided by the Borough for the purpose of assisting developers through the process of extending waterlines within the Borough's service area. The Handbook includes a Procedural Flow Diagram in order to ease the developers understanding of the service request process. The Handbook contains three sections; Rules and Regulations, Developers Agreement, and Construction Specifications. The Handbook may be purchased at the Borough Office.

SECTION XV - SPECIFICATIONS FOR WATERLINE CONSTRUCTION

148. INTRODUCTION: These specifications which cover requirements for construction of all of the Borough's standard water line facilities are intended for and apply to all such projects, whether directly contracted with a Contractor(s) by the Borough, or; contracted indirectly through the auspices of a land developer who, in turn, employs a construction Contractor(s). The Rules and Regulations describes and identifies procedural requirements, requirements relative to engineering work, payment of fees, certain facility design criteria and parameters, private water service facility requirements, time restraints, certain terms which will be incorporated in an agreement with the Borough before commencement of construction and other factors relating to the water system facilities desired to be constructed in connection with development.

149. INSPECTION OF CONSTRUCTION WORK: All work performed in connection with the extension, modification or improvement of public water facilities shall be required to conform with all Borough rules and regulations and shall be inspected during construction by an authorized representative of the Borough. All completed work shall be required to meet the approval of the Borough's engineer and shall be changed, modified, replaced, removed or otherwise corrected by the Contractor to such extent as directed by the Borough's engineer.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The work will be periodically or continually inspected during its progress and when substantially completed, shall be inspected jointly, by the Borough's engineer and the Contractor, when a punch list of uncompleted or corrective work will be prepared. After all punch-list items have been taken care of to the satisfaction of the Borough's engineer, the work will be declared complete and, upon acceptance of the dedication of such line extension by the Borough, the eighteen (18) month maintenance period shall commence. During the term of the maintenance period the Contractor shall return when and as required to reconcile any problems resulting from construction, such as water line leakage, mechanical malfunction, drainage, etc. In addition a maintenance bond inspection shall be made by the Borough's engineer at a date between six and twelve months following the date of declaration of completion of construction. The Contractor will be notified in advance of that inspection date and may participate therein.

- 150. AS BUILT DRAWINGS:** The Contractor shall retain one reasonably clean set of drawings of the proposed improvements at the job, on which he shall note changes in pipe line alignments and elevations and any other changes from the pre-construction approved plans. He shall also reference the locations of the ends of water service lines so that the same may be uncovered and connected at future times. The set of prints on which such field information is recorded shall be utilized for transposing that information onto the original drawings.
- 151. RIGHTS-OF-WAY:** The Borough or land developer, whichever the case may be, will have, prior to commencement of construction, acquired the necessary rights-of-way where the line is located; however, if the contractor desires ingress or egress to the proposed pipeline location from other than public roads or streets, it shall be his responsibility to make the necessary arrangements, with the respective property owners involved. The contractor shall make every effort possible to confine his construction activities to the limits of rights-of-way and is advised that he shall be solely responsible for any activities outside of the right-of-way limits. The Borough or land developer, whichever the case may be, shall obtain and pay for all permits required to construct pipelines within roads or highways.
- 152. LINE AND GRADE:** The drawings indicate certain bench marks and topographical features on which the location and construction of the proposed pipeline shall be based. The contractor shall provide any and all additional field surveying required to control either line and/or grade and to assure installation of the facilities according to plans, profiles, and details shown and described on the drawings. Inasmuch as the waterline will operate under pressure, exact control of gradient will not be required, however, pipes shall be installed along the alignment and at the elevations indicated on the drawings.
- 153. CLEARING AND GRUBBING:** The areas along the alignment of the proposed waterline shall be cleared and grubbed to the extent necessary to accommodate the trenching, pipelaying, and backfilling operations; however, the area is not to exceed the limitations of rights-of-way. No trees shall be cut and/or destroyed unless absolutely necessary. Trees in lawn and/or landscaped areas shall not be removed without the consent of the Borough. The contractor shall make such arrangements as may be necessary for the removal and disposition of the various brush, trees, and other debris as is necessary.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

No such materials shall be included with trench backfill, and prior to completion of all contract work, all materials shall be cleaned up, transported and removed from the site.

- 154. EXCAVATION AND BACKFILL:** All pipeline and appurtenances shall be constructed by the open trench excavation method except where boring is called for on the contract drawings. All excavation shall be unclassified and no extra payment shall be made for hand excavation or for the removal of any rock, boulders, stumps, tree roots, shale, muck, masonry, curbing, driveway surfacing or other natural or man-made materials.

Exploratory excavations shall be made at the commencement of construction to identify the elevations and/or configurations of the existing water lines to which connection of proposed pipes are indicated. After exposure at those critical locations or connections, the contractor shall submit changes in alignment or gradient which may require additional work or material to the Engineer for approval before proceeding with the work.

The width of the trenches shall not exceed the outside diameter of the pipe, plus two feet, from the bottom of the respective pipe trench to a horizontal plane located one foot above the top of pipe. In the event that the contractor's methods/activities result in a trench wider than the pipe diameter plus two feet within that pipe zone, he shall install concrete bedding or encasement or shall make such other provisions as may be directed by the Engineer to protect the structural integrity of the pipe.

Where the trench bottom contains satisfactory material the pipe shall be laid on the flat bottom with holes for bells provided to insure that the pipe shall lie flat and be supported for its full length.

Where excavation exposes the bottom of proposed trenches where rock, very soft or other unsatisfactory pipe foundation materials exist, the contractor will be directed to overcut (in the case of rock) or stabilize/overcut (in the case of soft material). The pipe shall be supported on bedding material with a minimum thickness of 6" below the bottom of the pipe barrel; said material shall also be placed on the sides of the pipe and to a horizontal plane located one foot above the top of pipe, identified as the pipe zone with the exception of backfill provisions under pavement areas as described hereinafter.

The excavated material from the trench may be stored along its alignment of rights-of-way obtained for construction purposes. It may not, however, impede traffic flow along the streets and roadways, access to private properties, or access to existing utility lines by the respective utility companies. The temporary storage of excavated material shall also not obstruct or alter the flow of surface water runoff to the detriment of the operation of existing surface water drainage facilities and ditches.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Backfill material utilized for restoration of open trenches excavated through permanent pavements, curbs, driveways or where such structures are undercut by the excavation, and roadway shoulder areas, shall consist of 2RC material for the entire backfill to the subgrade of the structure onto the roadway shoulder finish grade. It shall be thoroughly compacted in 6" lifts for the full depth of the trench. The material placed in the pipe zone shall be carefully compacted to avoid displacement of the pipeline, valves, fittings and appurtenances.

At locations outside the pavement areas or roadway shoulder along the pipeline, the backfill material for the full trench depth, shall be selected excavated material which shall be thoroughly compacted and placed in such a manner to avoid disturbance or displacement of the pipe, valves and/or other appurtenances. The backfill material shall contain no rocks or hard shale which have a maximum dimension exceeding two inches. The backfill material may be placed by machine and mounded over the trench width. After settlement has satisfactorily occurred and subject to a time approved by the Borough's representative on the site, the surface shall be restored as required hereinafter for lawns and other improved or cultivated areas.

No material shall be used for backfill at any location which, in the opinion of the Borough's representative, is too wet, frozen, mucky or contains debris, tree stumps, or an excessive amount of rock.

All excess excavated material resulting from the construction of the pipelines, structures and appurtenances shall be removed from the site and disposed at a location and in a manner which shall be the applicant's responsibility to determine.

No more than one hundred feet of trench shall be opened at any one time.

Blasting will not be permitted.

- 155. EXPLORATORY EXCAVATIONS:** The exact location and condition of the existing water lines to which connections are to be made may vary in some respects from the arrangements indicated on the Drawings. Therefore, in those areas where such connections are to be made the contractor shall make appropriate exploratory excavations for the purpose of locating said lines and confirm the materials to be furnished and installed. The Borough's representative will then confer with the contractor regarding the method of construction proposed to be used for performing the contract work in said areas and, if realignment of the proposed pipelines or appurtenances appears possible and/or reasonable without conflicting with the terms set forth elsewhere, said alignment shall be made.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

156. WARNING SIGNS, LIGHTS AND BARRICADES: Among streets and at such other locations, a minimum of one lane traffic shall be maintained at all times during construction of this project in order to accommodate traffic as well as emergency fire, ambulance and similar vehicular traffic. Suitable and adequate barricades shall be erected and properly maintained by the applicant at all times during the course of construction work to clearly and properly caution and protect traffic and pedestrians from open excavations, unstable filled areas, obstructions and other hazards directly or indirectly resulting from the construction activities. Warning signs, barricades and handrails shall be erected and a sufficient number of high intensity warning lights shall be appropriately located for use at night and at other times when visibility is poor. An adequate number of flagmen shall be utilized to guide traffic along all areas where work is being performed or where hazardous driving conditions prevail.

No open excavations will be allowed overnight. It is mandatory that excavations be closed prior to the completion of the working day and that the roadways be free and accessible to travel. The contractor is required to maintain the level of the trench with the sub-base material until such time as paving is completed. The applicant shall coordinate providing two days advance notification to residents in these areas affected by construction.

157. DEWATERING: All trenches shall be dewatered thoroughly in advance of the pipe installation construction activities. The dewatering operation may be accomplished by the use of pumps, well-points, wells or any combination of those systems, but in any event, the pipeline shall be constructed in a trench which will be required to be free of ground, surface or any other source of water inflow and/or infiltration. The proposed water pipeline may not be used for dewatering purposes under any circumstances and particular care shall be exercised to keep open pipe ends sealed with plugs which are fabricated for that purpose and to prohibit the entrance of any extraneous water. Where dewatering pumps are required to be used sufficient discharge hose and other appurtenances shall be provided so that the water is discharged into storm drains, creeks, streams or other suitable water courses intended for such purposes.

158. EXISTING UTILITY LINES - LOCATION, PROTECTION AND HAZARDS: The plans may show underground water lines, gas lines, electric lines, telephone lines, sanitary sewers, combined sewers, storm drains, conduits and other similar utility lines and appurtenances. Neither the number of such underground facilities nor their respective types, sizes and/or locations can be assured or guaranteed and it is, therefore, the responsibility of the contractor to obtain such additional information as is required to properly complete the work in compliance with the specifications, and, to contact the owners of the various utilities in the area prior to starting and during performance of the work.

The approximate location of many power and telephone poles along the route of the work is shown on the drawings and the overhead lines supported by all such poles shall be observed and located by the contractor prior to commencement of the work.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The contractor shall be completely and solely responsible and liable for any and all property damages, bodily injuries, financial losses and interruption of service that result from or are attributable to his construction activities and which affect water lines, gas lines, electric lines, telephone lines, drain lines, sanitary and storm sewer lines and all appurtenances and service facilities connected thereto. Restoration of all such damaged or disturbed facilities shall be accomplished immediately after incurrence thereto.

Water, sewer, gas , electric, and telephone service to dwellings or places of business shall be maintained with a minimum of interruption throughout the construction of the work. No such service shall be intentionally interrupted without the approval of the respective utility company concerned, and without first giving due warning to the occupants of said dwelling or business establishment.

Much of the proposed work may be in close proximity to overhead power lines which transmit electric current at high voltages and which, if disturbed or contacted during construction, would be hazardous to construction personnel and/or other persons. The contractor shall, therefore, properly protect such wires, pole supports or other power line appurtenances to avoid disturbance to those facilities, and shall operate all machinery and conduct all other construction activities in a manner which will assure protection of all construction personnel and other persons against said hazards. Work in the vicinity of the existing underground gas lines and appurtenances is also hazardous because, under certain conditions, such materials are flammable and/or explosive and the applicant shall avoid disturbance and/or displacement of those facilities and shall provide all temporary and permanent supports and other required protection to prevent exposure of same to construction personnel and/or other persons. Where such lines are exposed during construction and leakage is detected, water line construction work in those areas shall be immediately suspended, the Borough shall be immediately advised of the condition, and the work shall not resume until all repairs have been properly completed.

- 159. DUCTILE IRON WATER PIPE:** All pipe to be furnished shall be Ductile Iron Pipe, centrifugally cast in metal molds or sand-lined molds, for water or other liquids as described in the specifications published by the American Water Works Association ANSI/AWWA C151/A21.51. Fittings shall conform to the applicable provisions of ANSI/AWWA/C110. The pipe shall be thickness Class 52 and furnished in 20 ft. lengths. Joints shall generally be of the push-on type; however, the joints at the fire hydrant assemblies shall be restrained and shall be of the mechanical type. All fittings shall also be fitted with mechanical joint couplings. The manufacturer shall furnish a sworn statement that the inspection and all of the specified tests have been made and that the results comply with the above stated specification standards.

All pipe and fittings shall be coated and shall be provided with a double cement lining in accordance with the latest revision of the ANSI/AWWA/C104/A21.4 specification.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The push-on type joints shall be of the single rubber gasket type molded to be positioned in an annular recess in the pipe or fitting and shall compress radially to form a positive seal and shall be shaped so that the gasket is locked in place against displacement. Joints shall conform to those provisions set forth in the ANSI/AWWA/C111/A21.11 specifications, which are applicable to the push-on type. All lubricants and gaskets and any required special tools for construction of the pipeline shall be furnished by the pipe manufacturer. All necessary accessories including lock ring, bolts, etc., shall be furnished and installed to accommodate the restrained and mechanical joints.

Pipe and fittings shall be similar and equal to those products manufactured by Atlantic States Cast Iron Pipe Co., Clow Corporation, American Cast Iron Pipe Company or U.S. Pipe and Foundry Company.

- 160. INSTALLATION OF THE DUCTILE IRON WATER PIPE:** All pipe, valves and hydrants shall be installed in accordance with the alignments, profiles and elevations indicated on the drawings. Exploratory excavation at critical points of crossing and/or possible conflict with other utilities shall be made prior to laying any pipe.

The push-on type ductile iron pipe, fittings and accessories shall be furnished and installed in general accordance with the applicable provisions of Standard ANSI/AWWA/C600 of the latest revision. The trench bottom shall be true and even and bell holes no larger than that required to make connections of the joints shall be provided. Pipe plugs shall be used at all times to protect the pipeline from the entrance of extraneous water, animals, or other foreign material. Joints shall be deflected as required to conform with the alignments shown on the drawings, but in no event shall deflection angles exceed five degrees. Concrete thrust restraints shall be installed at all significant changes in pipeline alignment and wherever pipe fittings are designated; concrete thrust blocks shall be cast in place in the trenches per the details and configurations shown on SD-02. If necessary, the pipe shall be cut in the field to accommodate the alignment and/or the locations of fittings shown on the Drawings.

Care shall be exercised to properly install the gate valves and boxes and the hydrants so that they are readily accessible at the respective elevations of existing ground. The hydrants shall be located in the field where directed by the Borough's representative.

After completion of all pipe installation and after sterilization has been accomplished in accordance with procedures outlined for disinfection of the pipe lines, the lines shall be flushed so that all dirt and debris and the sterilization solution will be thoroughly cleaned out of the pipes. Flushing shall be accomplished at a time satisfactory to the Borough and the flushing water shall be conveyed to ditches or creeks in such a manner as to avoid traffic or other hazards, and erosion of public or private properties.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 161. GATE VALVES:** All valves shall be furnished with mechanical joints, as indicated and shall conform to the specifications set forth in the ANSI/AWWA C500 standard of the latest revision. The valves shall be installed in the vertical position and at the bury and locations shown on the Drawings. Valves shall be cast iron or ductile iron body, resilient seat, open counterclockwise, with 2" square operating nut, designed for a working pressure of 150 psi. Valves shall be Mueller Catalog No. A 2370-20 or Kennedy Catalog No. 1571X. Each valve shall be equipped with a screw type cast iron valve box and cover indicating "Water Service." Lengths of the boxes shall be compatible with the depths of the respective valve installations as shown on the drawings.
- 162. HYDROSTATIC TESTING:** After the pipeline has been properly constructed and flushed, a hydrostatic test shall be conducted at a pressure of a minimum 150 pounds per square inch at any point of testing. The time period of said test shall not be less than two hours and the pressure shall not vary by more than plus or minus 5 psi during the duration of the test. All air shall be completely expelled from the section of line to be tested prior to application of the test pressure.

No section of pipeline will be accepted if, as a result of the aforementioned hydrostatic test, leakage is greater than an amount determined by the following formula:

$$L = \frac{SD(P)^5}{133,200}$$

- L: Allowable leakage, gallons per hour
- S: Length of pipe, tested, feet
- D: Diameter of pipe, inches
- P: Average test pressure, pounds per square inch

At a test pressure of 150 psi, the above formula results in an allowable leakage of 0.74 gallons per hour per 1000 feet for 8" diameter pipe, 0.55 gph per 1000 feet of 6" diameter pipe.

If the testing of any section of line discloses leakage greater than that amount, the applicant shall, locate the problem and make all necessary repairs and retest until the pipeline conforms with the specified allowance. Any and all visible leaks which are detected shall also be repaired, regardless of the amount of leakage.

- 163. DISINFECTION:** All pipelines constructed shall be disinfected in accordance with Standards ANSI/AWWA C-601 of the latest revision. The tablet method shall be used wherein two 5-gram calcium hypochlorite tablets shall be affixed to each joint of ductile iron pipe installed.

The tablets shall be attached to the inside and at the top of the installed pipes by using an adhesive similar or equal to Permatex No. 1.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

The pipeline shall be isolated from the existing system and shall, when the sterilization operation commences, be slowly filled with water at a rate where velocities shall not exceed one foot per second. After the pipeline has been completely filled and all air has been expelled, the water shall be permitted to remain in the pipe for a period of not less than 48 hours. The pipeline shall be flushed clean. The Borough will test the water and if the tests indicate poor water quality the applicant will be required to re-disinfect the water line at no cost to the Borough.

164. THRUST RESTRAINTS: Concrete blocks shall be cast in place in accordance with the configurations shown on SD-02. Such blocks shall be required to be poured, after installation of the adjacent piping at all fittings installed along the pipeline. The concrete to be used may conform with mix proportions of water, cement, and fine and coarse aggregates utilized locally, however, it shall have a minimum compressive strength of 3,500 pounds per square inch and a maximum slump of five inches. The concrete shall be placed such that it is supported against undisturbed earth along the excavated trench wall and the trench bottom and shall be thoroughly worked and vibrated to insure complete contact with the walls of the fittings being restrained. No trench backfill shall be placed at the locations of the thrust blocks until twenty-four hours after placement, and/or until the Borough's representative on the site has inspected the installation.

165. ROADS, WALKWAYS, PAVING AND SURFACE RESTORATION: It is intended that all surfaces occupied, disturbed, damaged or used to accommodate or perform construction work or for access to any part of the site shall be restored, as nearly as is practicable, to the condition existing prior to construction. Signs, drain pipes, curbs, storm ditches and any and all other existing public or private property items shall, where necessary be temporarily removed so that the work can be performed; said items shall, as soon as possible be properly replaced at a location and in accordance with the requirements of the respective owners. Driveway drain pipes shall conform to the specifications and requirements of the municipal subdivision in which the work is performed and shall be a minimum of 12 inches in diameter, galvanized corrugated metal pipe. When necessary to temporarily remove mail boxes so that the work can be performed, the mail box shall be restored in the shortest time to the requirements of the U.S. Postal Services and at the original location together with unrestricted access.

The contractor shall confine his material storage, excavation, topsoil storage and other work within the rights-of-way provided except when by written agreement between the applicant and the owner of the property through which the right-of-way passes, permission is granted to occupy areas beyond that designated.

When working on public or private highways, streets and alleys, the applicant shall confine his operations as required by the Authorities having jurisdiction.

The contractor shall make his own arrangements with private individuals relative to storing materials or equipment on private lands.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

Where the construction work is across, along or through right-of-ways, roadways, streets or alleys, belonging to the State, County, Borough or utility companies, the regulations and stipulations set up and required by those agencies shall be observed and all work shall be in conformance with the requirements set forth by that agency. Any and all permits required for opening roadways or streets shall be obtained by the applicant at his own expense. The cost of all inspection required by those Agencies shall be borne by the applicant. The expense of said permits and inspection shall be paid by the applicant even though the permits and inspection agreements may be issued to, or be between the Borough of the road or utility and the Borough. If the Borough is billed for these permits, or inspection services, the applicant shall reimburse the Borough at the time the bills are paid.

For bituminous paving, all materials and methods of construction shall comply with the requirements of Pennsylvania Department of Highways Form 408. Section numbers listed in this specification refers to the section of that document.

- 166. BORING AND CASING:** Where boring is employed, the contractor shall be responsible for construction to true line and grade and shall be held fully responsible for protecting against surface subsidence, damage or disturbance to adjacent property and facilities due to his construction operations and shall rectify resultant subsidence, damage or disturbance to the satisfaction of the Engineer.

All sheeting, shoring, bracing, lining, etc., required for construction of shafts, portals, etc., shall be furnished and installed by the applicant and shall conform to the requirements set forth under "Open Excavation". All work relative to the installation of waterlines by the boring method shall be performed in accordance with the regulations set forth under Subpart S, "Tunnels and Shafts, Caissons, Cofferdams and Compressed Air" published as part of the Safety and Health Regulations for Construction by the U. S. Department of Labor.

Where possible, boring operations shall be conducted from the high end of the pipe. The pipe shall at all times follow immediately behind the boring auger at a distance no greater than 2 feet. The method of augering the entire hole and then pushing the pipe through will not be permitted.

All steel carrier or casing pipe required for the installation of waterlines by the boring method shall be black steel pipe conforming to the specifications set forth under ASTM Designation A-53. All joints shall be welded. For eight inch diameter waterlines, the casing diameter shall be 18" inches.

The water pipe within casings shall be securely blocked with timber skids. Timber skids shall be pressure treated with Wolman preservative chemicals or creosote conforming to ASSHO M133 and shall be properly sized to accommodate the two pipes. Notches shall be provided where strapping will be installed. Steel strapping shall comply with ASTM A36 specifications. See SD-09.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 167. BOROUGH ROAD AND BERM PAVING:** All paving and/or berm areas disturbed or damaged as a result of the waterline construction or by other activities of the applicant shall be replaced in a manner to equal or exceed the quality of the existing surfaces and, to the satisfaction of the Borough. The paving and berm restoration shall conform strictly to the standards of Richland Borough for pavement work.

All paving removed, damaged or destroyed during the construction of this work shall be replaced by one of the following methods at least equivalent to that existing before construction. Where damage is within two feet of the curb or edge of roadway, replacement shall be to that curb. The contractor shall guarantee all paving replaced against defect and settlement for a period of two years after the date of the final estimate.

All non-rigid bituminous surface paving shall be restored by neatly and uniformly cutting the edges and placing a base course and a surface course over the trench fill in accordance with requirements of the Pennsylvania Department of Highways Form 408, 1976. The base course shall be a 6 inch bituminous concrete base course, in accordance with Sections 305,310, 311 or 322. The surface course shall be ID-2 installed in one wearing course totaling 1-1/2" after compaction. Seal edges with hot bituminous liquid. See SD-13.

- 168. SEEDING:** The contractor shall reseed all areas disturbed by construction after the topsoil has been properly distributed. The entire area shall then be properly tilled and hand-raked to a smooth, even grade. All seeded areas shall be kept constantly wet to a depth of 3" for 10 days immediately after seeding. All areas which do not show a prompt catch of grass shall then be reseeded as required. In any event, the applicant shall insure a good final stand of grass as specified above and he shall maintain the seeded areas until the lawn as such is free from bare spots and off-color areas and until final acceptance of the entire project.

All lawns and other improved or cultivated areas shall be restored by properly rolling, tilling and hand raking the area disturbed during construction and an application of an approved fertilizer at a rate of 30 lbs. per 1000 square feet shall be made. Grass seed of an approved variety shall be sown by a feeder on a calm day in accordance with suppliers' directions at a rate of not less than 7 lbs. per 1000 square feet. The area shall then be completely covered with peat moss, mushroom manure, or other approved mulch material. The applicant shall be responsible restoration of all settlements and for properly preparing the topsoil, applying fertilizer and mulch and planting the seed, but will not be required to water those restored areas.

- 169. DISPOSAL OF EXCESS MATERIAL:** All excess materials resulting from either and/or both the open excavation and the tunneling, boring and/or jacking operation, which materials are not replaced as backfill, shall be hauled from the site of the work and shall be disposed as determined by the applicant.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 170. SHEETING, SHORING AND/OR BRACING:** All open trenches for construction of the pipeline shall be constructed in accordance with the provisions of the Occupational Safety and Health Act Regulations, as the same pertain to the shape of trenches above the pipe zone, trench side-wall supports, the construction methods employed, the general protection requirements, the general excavation requirements, the general trenching requirements and the minimum requirements for trench shoring. Those excavations for the proposed access pits for performance of the tunneling, boring and/or jacking operation shall be similarly constructed except that all such access pits shall be continuously sheeted with steel and/or timber which shall be adequately braced with waling or other supports from the respective pit bottoms to the tops. All sheeting and/or shoring shall be designed by the applicant for the conditions encountered and shall be structurally adequate to withstand the loads to be imposed. Methods of installation shall be compatible with assuring the protection against disturbance of adjacent facilities and/or grounds and the safety of construction and other persons.

Trenches, pits and/or any other excavated and/or backfilled areas where pedestrian or traffic hazards may result during construction or non-construction hours, all be covered with anchored steel plates adequately reinforced for loads which may be sustained and shall be distinctively and clearly marked, barricaded, lighted and detoured to identify the respective hazards.

- 171. FIRE HYDRANTS:** The fire hydrants shall be manufactured in accordance with the Specifications of the American Water Works Association C502, latest revision and shall be Catalog No. A 423, Modern Centurion 200 Fire Hydrant as manufactured by the Mueller Company or Kennedy K 81A.

The hydrants shall be of the compression type and shall open counter-clockwise. The hydrants shall have an internal diameter of standpipe of at least 7 inches and 5-1/4 inch valve opening, shall have a 6 inch mechanical joint connection and shall be designed for a 4 foot 6 inch bury; that is the 6 inch inlet pipe shall have at least 4 feet of cover. The hydrant shall have two 2-1/2 inch hose nozzles and one 4 1/2" steamer nozzle opening with threads the same as those on the existing fire hydrants. The applicant shall be held responsible for threads matching the existing hydrants. Hydrant painting shall be as selected by the Borough. Installation shall be as shown in the Supplemental Details SD-01 of this document.

The hydrants shall be furnished with safety flanges for protection in case of collision. All bearings shall be fully bronze mounted and the hydrant shall be constructed so that all working parts can be removed without disturbing the barrel of the hydrants or making any excavation. The hydrants shall be designed so as to be frost-proof and be provided with drains which close when the hydrant is opened and open promptly when the hydrant is closed.

Each hydrant shall be subjected to a hydrostatic test of at least 400 pounds prior to shipment and shall be suitable for operating pressures of 200 pounds. The hydrant shall be given on shop coat of lead chromate primer and two coats of approved paint, the color to be chosen by the Borough.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 172. BLOW OFF ASSEMBLY:** A blow-off assembly of the size and type indicated on the contract drawings and in accordance with the supplemental details SD-07 and/or SD-08 shall be installed at locations indicated on the drawings.
- 173. DUST AND MUD CONTROL:** Dust control palliatives shall be utilized where and when necessary to maintain roads, berms and other traveled ways. In addition, the accumulation of mud and/or dirt from the excavation, backfill or trenching operations shall be cleaned off the pavements by machine and/or by hand labor as frequently as is necessary in order to properly maintain the street and highways.
- 174. CONTRACTOR'S OFFICE FACILITIES:** The contractor shall provide and make his own arrangements for his field office facilities, change trailers, storage areas, sanitary facilities, etc.
- 175. CLEAN-UP:** Clean-up work shall reasonably follow the installation of the pipe and appurtenances. After all work has been completed, thorough cleaning of the surface of the ground of all disturbed and occupied areas shall be done to the satisfaction of the Borough's representative on the site.
- 176. MINIMIZING WATER POLLUTION FROM SOIL EROSION:** All contractors shall conduct their activities and shall program trenching and restoration operations in such a manner as to minimize pollution of the creeks and ponds from erosion of the freshly excavated and/or backfilled material during periods of excavation and surface water runoff. Applicant shall reduce the area and duration of exposure of all erodible soils by the greatest extent practicable and to that end, hydromulching, reseeding and other specified surface restoration shall be required to closely follow backfilling operations. Where the Engineer so directs in the field, sediment traps, hay bales and/or other means to retard runoff rates shall be installed. Similar holding basins or other sediment trap arrangements shall also be required to be installed at the discharge of dewatering pumps.

Discretion shall be exercised in selecting the number and location of encroachments during construction both in and along the creeks and ponds such that a minimum of disturbance and erosion pollution results.

- 177. EROSION AND SEDIMENTATION CONTROL DURING EARTH MOVING ACTIVITIES:** The detailed requirements pertaining to trenching and other earth moving activities are set forth elsewhere in the Specifications. Earth work will consist of trenching for new pipelines.

Prior to earth moving activities, the contractor shall install the necessary erosion protection devices required as required by the Pennsylvania Department of Environmental Resources or their representative for adequate erosion and sedimentation control.

Mars Borough, Butler County, Pennsylvania
Rules and Regulations Governing Water Service

- 178. GENERAL REQUIREMENTS RELATING TO CONSTRUCTION MATERIALS:** The contractor shall submit shop drawings to the engineer for approval of all proposed pipe, joints, gaskets, valves, hydrants and appurtenances prior to the fabrication and delivery of those products.

At delivery of the materials, the applicant shall deliver to the Borough three (3) sets of bound Operation and Maintenance Manuals for the materials. The manual shall include a complete part list and a name of all the various components making up the material item. A complete section on the maintenance and care of all material shall be included with the manual.

- 179. COORDINATION OF WORK WITH THE BOROUGH:** This contractor shall also coordinate its activities with those of the Borough to assure connection to the correct existing waterline and connection with the existing pipe lines at times which are compatible with system operations. Connections to existing pipe lines will be with transition sleeves with tees and other appurtenances. Shut down of waterlines must be coordinated with the Borough. The contractor is not permitted to operate any valve in the Borough's system.