TOWNSHIP OF ALLAMUCHY

WARREN COUNTY

NEW JERSEY

SANITARY SEWER SYSTEM

RULES AND REGULATIONS

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PREPARED BY: MASER SOSINSKI & ASSOCIATES, PA
LONG VALLEY, NJ

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SECTION 1 - INTRODUCTION

1.1 Purpose

One purpose of the Township Water and Sewer Utilities Department is to implement Sanitary Sewer Rules and Regulations in the public interest for the Township of Allamuchy in the County of Warren and in the State of New Jersey, in order to foster and promote relief of waters from pollution and abate the menace to public health. These Rules and Regulations are established for the conduct of the Department's business, to cover the use of sanitary sewers and sewer systems, to provide a schedule of fees and rates, and to outline allowable procedures and whatever else is deemed proper within the sphere of the Department's activity.

In accordance with Section 513 of the Township of Allamuchy Land Development Ordinance on lands within the existing or proposed sewer service area as indicated in the Allamuchy Township Wastewater Management Plan and where a public wastewater plant and collection system is accessible to a property proposed for development, or where such facilities are to be constructed as a condition of approval of any application for development, the developer shall construct such wastewater treatment facilities and/or sanitary sewer lines and building connections in accordance with the Township of Allamuchy Sanitary Sewer System Rules and Regulations, Allamuchy Township Wastewater Management Plan, applicable municipal and County Codes, and New Jersey Department of Environmental Protection permit requirements and in such a manner as to make adequate sewage treatment available to each lot and building within the development.

The Township reserves the right to interpret, waive, or revise these rules and regulations, and rates as it deems necessary to meet its purpose under the law and the public interest in general.

1.2 Office of the Township and Hours of Business

The principal office of the Township, place of business and mailing address is Municipal Building, Alphano Road, Box A, Allamuchy, New Jersey 07820.

The office of the Township will be open for the purpose of the transaction of regular business between the hours of 8:00 A.M. and 4:00 P.M. prevailing time, each weekday, Monday through Friday, except holidays. The office phone number is (908) 852-6356.

The maintenance division of the Water and Sewer Utilities Department will be open between the hours of 8:00 A.M. and 4:00 P.M. prevailing time, each weekday, Monday through Friday, except holidays. The maintenance phone number is (908) 852-3392.

After business hours, or on weekends or holidays, emergency calls for the Water and Sewer Utilities Department should be directed to the offices of US Water Company at (732) 297-7332. They will contact Department personnel to respond to the call.

1.3 Severability

If any section, subsection, clause or provision of these Rules and Regulations and Rate Schedule shall be adjudged unconstitu-tional or to be ineffective in whole or in part, to the extent that it is not adjudged unconstitutional or is not ineffective, it shall be valid and effective and no other section, subsection, clause, or provision of these Rules and Regulations or Rate Schedules in any one or more instances or under any one or more circumstances shall not be taken to affect or prejudice in any way its applicability or validity in any other instances or under any other circumstances.

These Rules and Regulations are subject to the Site Improvement Act and any regulations adopted thereunder NJSA 40:55(D)-40.1. Therefore, in the event of any conflict between our Regulations and the Site Improvement Act and/or any regulations thereunder, the Site Improvement Act and/or regulations promulgated thereunder shall take precedence.

1.4 Resolutions

All resolutions or parts of resolutions in conflict or inconsistent with the provisions hereof are hereby repealed, but only, however, to the extent of such conflict or inconsistency; it is the legislative intent hereof that all other resolutions or part of resolutions enacted by the Township of Allamuchy now existing or in effect, unless the same being in conflict or inconsistent with any provisions of this resolution shall be and remain in force and effect.

1.5 Revision of Rates, Rules and Regulations

The Township reserves the right to revise, amend or supplement by resolution, from time to time, these Rules and Regulations, and Rate Schedules for sewer services.

SECTION 2 - DEFINITIONS

Unless the context specifically indicates otherwise, the meaning of the terms used in these Rules and Regulations shall be as follows:

Biochemical Oxygen Demand (BOD) shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at 20 degrees C expressed in milligrams per liter.

Building Drain shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste, and other wastewater drainage pipes inside the walls of the building and conveys it to the building sewer, beginning five (5) feet (1.5 meters) outside the inner face of the building wall.

Building Sewer shall mean the extension from the building drain to the public sewer or the place of disposal.

Connection Fee is a charge imposed upon the owner or occupant of property or premises to be connected to the Township's sanitary sewer system representing a fair payment toward the cost of the sewer system and calculated pursuant to NJSA 40:14B-21. The Connection Fee is an addition to the actual cost of the physical connection or "tapping fee" imposed pursuant to the rate schedules annexed to these Rules and Regulations.

Customer is a person, partnership, firm, corporation, governmental subdivision or agency receiving sewer service from premises, as hereinafter defined.

Department shall mean the Township of Allamuchy Water and Sewer Utilities Department.

Domestic Consumer Unit shall mean a dwelling or structure normally occupied by a single family.

Domestic Sewage shall mean the normal waterborne fluid wastes from residences, commercial establishments, institutions and industrial establishments, limited to the waste from kitchens, bathrooms, water closets, lavatories and laundries.

Easement shall mean an acquired legal right for the specific use of land owned by others.

Effluent Criteria shall mean discharge standards for compliance with National Pollutant Discharge Elimination System (NPDES) limits in effect for the Township of Allamuchy treatment plant discharge, or specific discharge standards for quality and possibly quantity of industrial effluent from individual industrial premises, as established by the Township.

Equivalent Dwelling or Service Unit shall mean a unit of charge established by the Township, which is approximately equivalent to the average discharge from a single family detached home in the Township of Allamuchy service area; the unit is not precise, but is based upon approximations of quantity and variability of discharge for various classes of system users.

Fixture Unit shall mean each plumbing unit including but not limited to sink, toilet, urinal, tub or shower.

Floatable Oil is oil, fat, or grease in a physical state such that it will separate by gravity from wastewater by treatment in an approved pre-treatment facility. The wastewater shall be considered free of floatable oil if it is properly pre-treated and the wastewater does not interfere with the collection system.

Floor drain shall mean any fixture, pipe, or other drainage device located inside of a structure, which may be interconnected to the sanitary sewer system.

Flow Equalization is the reduction in peak rates of flow, through the use of detention storage facilities or equalization tanks.

Garbage shall mean the animal and vegetable waste resulting from the handling, preparation, cooking, and serving of foods.

House Connection - See Service Lateral.

Indirect Discharge shall mean any discharge, excluding any discharges by municipal collection systems, into any domestic treatment works.

Indirect Discharger shall mean any person or user, excluding municipal collection systems, who has an indirect discharge of primarily non-domestic pollutants including septage.

Industrial Wastes shall mean the wastewater from industrial processes, trade, or business as distinct from domestic or sanitary wastes or sewage.

Main shall mean a pipe or conduit that carries wastewater.

May is permissive (see Shall).

Normal Sewage shall have the same definition as the term "domestic sewage".

Offsite shall mean located outside the lot lines on the lot in question but within the property (of which the lot is a part) which is the subject of a development application or contiguous portion of a street or right-of-way.

Off-tract shall mean not located on the property which is the subject of a development application nor on a contiguous portion of a street or right-of-way.

Onsite shall mean located on the lot(s) in question.

On-tract shall mean located on the property which is the subject of a development application or on a contiguous portion of a street or right-of-way.

Person shall mean any individual, firm, company, association, society, corporation, or group.

pH shall mean the logarithm of the reciprocal of the hydrogen ion concentration. The concentration is the weight of hydrogen ions, in grams, per liter of solution. Natural water, for example, has a pH value of 7.

Premises include the following:

(a) A building or other structure under one roof owned or leased by one customer.

(b) A combination of buildings owned or leased by one customer, in one common enclosure, occupied by one customer.

(c) A building owned or leased by one customer having a number of apartments, offices, or lofts which are rented to tenants, using one or more halls and entrances in common.

(d) A combination of buildings owned or leased by one customer, in one common enclosure, none of the individual buildings of which is adapted to separate ownership.

(e) A cooperative apartment, condominium, townhouse or similar development served by one or more master meters for distribution of water to a greater number of unit owners or occupants.

(f) A public building.

Pretreatment shall mean the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into the system. The reduction or alteration may be obtained by physical, chemical or biological processes, process changes or by other means except by dilution. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the system or treatment processes.

Properly Shredded Garbage shall mean the wastes from the preparation, cooking, and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than 1/2 inch (1.27 centimeters) in any dimension.

Public Sewer shall mean a common sewer controlled by a governmental agency or public utility.

Rules and Regulations, as referred to herein, are these entire "Rules and Regulations for Sewer Service" as the same may be amended or revised from time to time.

Sanitary Sewer shall mean a sewer that carries liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions together with minor quantities of ground, storm and surface water that are not admitted intentionally.

Service Lateral shall mean that portion of the public sewer which extends from the main in the street or easement to the property line. (Also called house connection).

Service Unit shall mean a residential, commercial, industrial or other unit of property to which sewer service is provided either by direct or indirect connection.

Sewage is the spent water of a community. The preferred term is "wastewater".

Sewer shall mean a pipe or conduit that carries wastewater or drainage water.

Sewer System shall mean the plants, structures and other real and personal property acquired, constructed or operated or to be acquired, constructed or operated by the Township for the purposes of sewage collection and treatment, including sewers, conduits, pipe lines, mains, pumping and ventilating stations, sewage treatment or disposal systems, plants and works, connections, and outfalls, compensating reservoirs, and other plants, structures, boats, conveyances, and other real and personal property, and rights therein, and appurtenances necessary or useful and convenient for the collection, treatment, purification or disposal in a sanitary manner of any sewage, liquid or solid wastes, soil or industrial wastes.

Shall is mandatory (see May).

Slug shall mean any discharge of water or wastewater which, in concentration of any given constituent or in quantity of flow, exceeds for any period of duration longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration or flow during normal operation and may adversely affect the collection system and/or performance of the wastewater treatment works.

Storm drain (sometimes termed "storm sewer") shall mean a drain or sewer for conveying water, groundwater, subsurface water, or unpolluted water from any source.

Suspended Solids shall mean total suspended matter that either floats on the surface of, or is in suspension in, water, wastewater, or other liquids, and that is removable by laboratory filtering as prescribed in the latest edition of "Standard Methods for the Examination of Water and Wastewater", of the American Public Health Association, Washington, D.C., and referred to as non-filterable residue.

Swimming Pools shall mean a private, institutional or public swimming pool used for recreational purposes, including the restroom, cabanas, backwash or filtering facilities, or any appurtenances used in connection with the swimming pools which may have a sanitary waste discharge.

Township shall mean the Township of Allamuchy.

Unpolluted water is water of quality equal to or better than the effluent quality standards criteria in effect for the receiving water, or water that would not cause violation of receiving water quality standards.

Wastewater shall mean the spent water of a community. From the standpoint of source, it may be a combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions, together with any groundwater, surface water, and stormwater that may be present.

Wastewater Facilities or sewerage facilities shall mean the structures, equipment, and processes required to collect, carry away, and treat domestic and industrial wastes and dispose of the effluent.

Wastewater Treatment Works shall mean an arrangement of devices and structures for treating wastewater, industrial wastes, and sludge. Sometimes used as synonymous with "waste treatment plant" or "wastewater treatment plant" or "water pollution control plant".

SECTION 3 - ADMINISTRATIVE PENALTIES, FEES AND CHARGES

3A. PENALTIES

For any violation of the Rules and Regulations, the Department may impose any or all of the following penalties:

a) Discontinuance of all or part of service at the property where the violation occurs.

b) A monetary penalty for each violation in accordance with the current Penalty Schedule in Appendix "B". In the case of continuing violation, each day of violation shall be deemed to be a separate violation. Where there is evidence of a violation of Section 7C.4 of these Rules and Regulations, there shall be a presumption that the violation continued for each day of the calendar quarter in which the violation was observed or measured and the Department shall have the discretion to charge a full or part quarter assessment.

c) Assessment of all costs to the Department and/or Township to correct the violation, including but not limited to, reimbursement for any penalties which may have been imposed upon the Department and/or Township by any regulatory agency.

d) The penalties for grease and oil violations shall be in accordance with the current Penalty Schedule in Appendix "B".

In the case of continuing violation, each day of violation shall be deemed to be a separate violation. The penalties shall be prepared by the Department and shall be modified based on level of flow, concentration level, remedial action and improved test results. The penalties may be appealed to the Governing Body of the Township.

None of the above shall be deemed to prevent the imposition of such criminal and civil penalties as may be imposed by the Municipal Court of the Township of Allamuchy under the applicable ordinances of the Township.

3B. FEES AND CHARGES

3B.1 Fees and Deposits to Accompany Applications and Permits

All application fees and required deposits shall accompany applications and permits. For standard application fees see current Standard Application Fees and Charges in Appendix "B".

3B.2 Sewer Service Charges

All owners of property connected to the sewer system of the Township of Allamuchy shall pay to the Township a sewer service charge in accordance with the current Sewer Service Charges Schedule.

3B.3 Charges to Connect to Sewer System

The following fees shall be imposed for each direct or indirect connection to the Township sanitary sewer system.

Connection Fee - For the right to connect directly or indirectly to the Township's sewer system, an applicant shall be charged a connection fee for each service unit as specified in the current Fees and Charges Rate Schedule. Such connection fees, which are charged for an initial connection (or reconnection after termination of service) to the sewer system, are an integral part of the Township's rate schedule and are a distinct and separate charge from all other rates and sewer charges and payment for one shall not constitute payment of the other. The connection fee shall be calculated and updated pursuant to N.J.S.A. 40:14A-8.

Upon an addition, alteration or change in use of any building already connected to the Township system, an additional connection fee may be charged based upon the sewer connection designations.

Inspection Fees - An applicant for sewer service may also be charged for inspection work to ensure compliance of sewer connections with the Township's Rules and Regulations as the same are promulgated, amended, modified and supplemented from time to time.

Service Lateral Installation Fees - An applicant will be charged for the installation of a service lateral whenever a physical connection is required to be made by the Township or their designated contractor. The charge for installation of service lateral(s) shall be the actual cost incurred by the Township.

3B.4 Payments of Connection Fee

Connection Fee payments for single family home, existing prior to the installation of collection lines by the Township, and applying and connecting within thirty (30) days after notification of availability of service by the Township, must be:

a) Payment in lump sum, or

b) Payment in four equal installments over a one year period, commencing at time of availability of service, prior to connection. (Balance to be paid in full upon change in ownership).

Connection Fee payments for single family homes built after collection lines were installed, must be:

a) Payment in lump sum prior to connection.

Property owners who fail to make application and connection within the required time limits, and do not have written certification from the Township of Allamuchy indicating valid reasons for not connecting must pay as follows:

a) Payments due in full on date service becomes available. Service is considered available upon notification by the Township, which is not necessarily the time of connection.

For developments comprising two or more homes, payment must be made:

a) Within six (6) months of approval of the application for sewer service by the Township, or upon issuance of a building permit, whichever occurs first; or

b) Phased in accordance with construction phases if so approved by the Township.

Where multi-family or non-residential structures exist prior to the installation of the collection system, payment must be made:

a) In full within thirty (30) days after the notification that service is available.

b) Prior to the connection if the connection is made within the thirty (30) day limit.

When multi-family or non-residential structures are built after the collection system is available for service, payment must be made:

a) Within six (6) months of approval of the application for sewer service by the Township or upon issuance of a building permit, whichever occurs first.

A change in use shall require the submission of Form E-4, Change in Use, and shall require the payment of an additional connection fee, when the connection fee for the resulting use is higher than the connection fee for the prior use at the time of change in use. The amount of the connection fee will be the connection fee for the resulting use, less the connection fee paid or chargeable for the prior use of the property.

3B.5 Waste Surcharges

Waste volumes shall be based on a metered flow, corroborated (when requested) by water meter records, well pump elapsed time meters or other recordings or observations. Charges for volume shall be as shown in the rate schedule.

Waste strength shall not exceed the limits listed in the section entitled Industrial or Commercial Service without pretreatment. Where samples indicate that strengths exceed those of a domestically equivalent waste*, and if such wastes have been introduced into the Township sanitary sewer system, surcharges will be imposed as follows:

The surcharges for Suspended Solids, Biochemical Oxygen Demand, Chlorine Demand, and other materials shall be as specified in the current Fees and Charges Rate Schedule, plus any and all additional costs resulting from the impact of those excess waste strengths of the Township's sewer system, plus any and all testing costs associated with determining the excesses of parameter limits.

The surcharge for grease, oil, fats, either vegetable or mineral, shall be per pound for the concentrations in excess of the allowable limit of 100 mg/l in accordance with the current Rate Schedule.

Where any sample taken by the Township or by the customer shows an excess of suspended solids and BOD in excess of 225 mg/l, grease and oil in excess of 100 mg/l, and Chlorine Demand in excess of 10 mg/l, then such surcharges as may be developed shall be applicable to a full or partial monthly assessment against the tested customer.

* For sewer service charges, domestically equivalent sewage shall have a BOD_5 and suspended solids limit of 225 mg/l or less, and a chlorine demand of 10 mg/l or less. Surcharges will be based on the excesses of BOD_5, suspended solids and chlorine demand over the limits as noted above.

3B.6 Liens; Rights and Remedies; Enforcement

In the event that charges to connect to the sewer system or annual service charge with regard to any parcel of real property owned by any person, corporation, or other entity other than the State or any agency or subdivision thereof shall not be paid as and when due as hereinabove stated, the unpaid balance thereof and all interest accruing thereon, shall be a lien on such parcel, and all such liens shall become enforceable with and as any other municipal lien on real property in the municipality in addition to the other remedies of civil suit or foreclosure or any other remedies which may be available and provided by and under the Laws and Statutes of the State of New Jersey in such case made and provided.

In the event that charges to connect to the sewer system or any service charge of the Township with regard to any parcel of real property shall not be paid as and when due, the Township may enter upon such parcel and cause the connections thereof to be cut and shut-off until such service charge and any subsequent service charge with regard to such parcel and all interest accrued thereon, together with re-connection fee shall be fully paid to the Township, and/or may avail itself of any and all other remedies which may be available and provided by and under the Laws and Statutes of the State of New Jersey in such case made and provided. The re-connection fee shall be in the amount of all labor, materials and administrative costs incurred by the Township. The minimum re-connection fee shall be in accordance with the current Fee Schedule.

All rights and remedies provided in these Rules and Regulations and in any amendments or modifications hereof and supplements hereto for the collection and enforcement of rates and service charges, initial service charges, connection fees or tapping fees, rents, and rates, and all other fees and charges shall be cumulative and concurrent with and in addition to those provided and authorized in and by the Laws and Statutes of the State of New Jersey in each such case and provided.

3B.7 Garbage Disposal Fees

The Township will permit the use of domestic garbage disposal units in residential dwellings.

Non-residential garbage disposal units may only be installed if approved in writing by the Township and use of such units shall be subject to the charges for garbage disposal units in the Township's rate schedule.

3B.8 Floor Drain Fees

The Township may permit floor drains, however, a permit will be required, Form F. A supplementary charge over and above the annual sewer service charge, in accordance with Section 3B.12 E and the current Fees and Charges Rate Schedule, will be assessed. This extra charge will be billed with the sewer service charge monthly.

The Township will charge for inspection of the floor drains if requested by the property owner in accordance with the current Rate Fee Schedule.

The property owner will be responsible for all costs of annual permits, quarterly testing, inspections.

The property owner will also be responsible for any costs developed from test results showing violation of Section 7C.4, 7C.5 and 7C.6. The property owner will also be responsible for any surcharge costs as per Section 3B.5.

3B.9 Swimming Pool Drain Fees

The Township may permit commercial swimming pool drains, however, an annual permit will be required, Form G. A supple-mentary charge over and above the regular sewer service charge, in accordance with Section 3B.12 F, and the current Fees and Charges Rate Schedule will be assessed. This extra charge will be billed with the sewer service charge monthly.

3B.10 Miscellaneous Charges

A. *Check Processing Fee* - If a check used as payment is returned by the bank for any reason, a fee will be charged against the account in accordance with the general Township check charge.

B. *Roof Leader, Storm Drain and Sump Pump Connections* - If roof leaders, storm drain or sump pump connections are found to exist, such connections must be removed within sixty (60) days after adoption of these Rules and Regulations by the Township. On such finding, charges for roof leaders and storm drain connections will be assessed retroactively at the rate of 0.25 units per one thousand square feet of tributary stormwater drainage area of impervious area, retroactive for the period of use (maximum two (2) years), but not before the effective date of these Rules.

Sump Pumps - As stipulated elsewhere, the discharge from sump pumps may not be connected to the Township sewer system. If found connected, the property owner will be charged on the basis of continuous discharge at 10% of the rated pump capacity (1 unit equals 100,000 gallons per year). Charges will also be levied retroactively for the period of use, to a maximum of two (2) years, but not before the effective date of these Rules. The property owner must remove any connected sump pump within sixty (60) days after adoption of these Rules and Regulations by the Township.

3B.11 Other Rates and Deposits for Escrow

When any application shall be made to the Township of Allamuchy other than those applications specifically provided for herein, there shall be deposited with the Township an escrow fund which shall be utilized for purposes of reimbursing the Township for all expenses of professional personnel incurred and paid by the Township for the review process of an application for development before the Township, such as, but not limited to:

1. Charges for reviews by professional personnel of applications, plans and accompanying documents;

2. Issuance of reports by professional personnel to the municipal agency setting forth recommendations resulting from the review of any documents submitted by the applicant;

3. Charges for any telephone conference or meeting requested or initiated by the applicant, his attorney or any of his experts or representatives;

4. Review of additional documents submitted by the applicant and issuance of reports relating thereto;

5. Review or preparation of easements, developer's agreements, deeds, approval resolutions, or the like;

6. Preparation for and attendance at all meetings by professionals serving the Township, such as the Attorney, Engineer and Planner, or other experts as required;

7. The cost of expert advice or testimony obtained by the municipal agency for the purpose of corroborating testimony of applicant's experts; and

8. All costs associated with a court reporter, if desired by the applicant, including but not limited to, transcribing and furnishing a transcript.

The escrow account deposits shall be placed in a separate account by the Township Treasurer/Chief Financial Officer at the direction of the Administrative Officer and an accounting shall be kept of each applicant's deposit.

1. All professional charges shall be paid from the account and charged to the applicant;

2. Any monies not expended for professional services will be returned to the applicant within ninety (90) days upon written request by the applicant and as authorized by the Township Council.

3. If, at any time during the review procedure, fifty percent (50%) of the monies posted shall have been expended, the applicant shall be required to post such additional sum as may be required by the Administrative Officer to cover professional costs;

4. The applicant shall not be entitled to proceed with the application or any development until such time as the necessary monies have been posted to guarantee payment of professional service fees;

5. All payments charged to the deposit shall be pursuant to vouchers from the professionals stating the hours spent, the hourly rate and the expenses incurred;

6. Upon written request by the applicant at any time, the Administrative Officer shall forward to the applicant immediately upon receipt a copy of the voucher for professional charges against the applicant's escrow account deposit. The applicant may request through the Administrative Officer a written accounting of the charges in the voucher from the professional where such charges are high or the scope of work performed is not clearly defined. The applicant shall thereafter have the opportunity to appear before the Township to state his objections or questions relative to the charges during the public portion of any regularly scheduled Township Council meeting.

7. No professional submitting charges to the Township for any review of an application for development shall charge for such services at any higher rate or in any different manner than would normally be charged to the Township for similar work; and

8. The Township shall render a written final accounting to the developer on the uses to which the deposit was put and, thereafter, the Township shall, upon written request, provide copies of the vouchers to the developer.

Each applicant shall agree to pay all reasonable costs for professional review of the application. All such costs for review must be paid before any approved plat, plan or deed is signed and before any construction permit, and/or other permit is issued.

The applicant is also responsible for depositing monies into escrow in accordance with the schedules to reimburse the Township for all expenses of professional personnel incurred to inspect the installation of improvements to ensure satisfactory completion. The developer shall deposit with the Township Treasurer/Chief Financial Officer inspection fees in the amount not to exceed, except for extraordinary circumstances, the greater of five hundred dollars ($500) or five percent (5%) of the cost of the improvements as determined by the Township Engineer in accordance with the Rules and Regulations, provided that:

1. For those developments for which the reasonable anticipated inspection fees are less than ten thousand dollars ($10,000), the fees may, at the option of the developer, be paid in two (2) installments. The initial amount deposited by the developer shall be fifty percent (50%) of the reasonably anticipated fees. When the balance of deposit drops to ten percent (10%) of the reasonably anticipated fees because the amount deposited by the developer has been reduced by the amount paid to the Township Engineer and/or other professionals for the inspection(s), the developer shall deposit the remaining fifty percent (50%) of the anticipated inspection fees.

2. For those developments for which the reasonable anticipated inspection fees are ten thousand dollars ($10,000) or greater, the fees may, at the option of the developer, be paid in four (4) installments. The initial amount deposited by the developer shall be twenty-five percent (25%) of the reasonably anticipated fees. When the balance of deposit drops to ten percent (10%) of the reasonably anticipated fees because the amount deposited by the developer has been reduced by the amount paid to the Township Engineer and/or other professionals for the inspection(s), the developer shall make additional deposits of twenty-five percent (25%) of the anticipated inspection fees.

The inspection escrow shall be deposited by the Township Treasurer/Chief Financial Officer or his/her designee, in an account for such purposes under the sole control of the Township. Said inspection escrows may be commingled with similar escrows from other developers, but accurate accounts and records shall be kept so as to identify the particular escrows and charges made against the same. The inspection escrow funds shall be used solely for payment of inspection fees, expenses and costs on behalf of the Township during the course of construction by the Township Engineer, or such other officials as designated by the Township, including but not limited to the Township Planner or the Township Attorney.

The Township Engineer shall not perform any inspection if insufficient funds to pay for their inspections are not on deposit. Upon certification by the Township Clerk or his designee that the inspection escrow account funds have been expended and that reasonable inspection costs and expenses remain, the developer shall be required to deposit such additional inspection fees in the inspection escrow account as may be reasonably required to complete the balance of the inspection during the course of construction. Failure to post and maintain the current balances of the inspection escrow pursuant hereto will subject the developer to a "stop-work" order and/or suspension of construction permits.

3B.12 Minimum Annual Charges and Initial Connection Charges

The calculation of minimum service units for each connected property shall be based on the following schedule (see current "Sewer Service Charges Schedule" and "Connection Charge Schedule" for full charges):

		Minimum Service Units for Annual Charge Purposes	Minimum Service Units for Initial Connection Charge Purposes
A.	Single Family Home	1.00	1.00
B.	Multi-Unit Housing (including apartment, hotel/motels, townhouses, trailer stalls, dormitories, condominiums, etc.)		
	a) For each apartment in a multi-family dwelling	1.00	1.00
	b) For each house trailer	1.00	1.00
	c) For each separate hotel/ motel type room, without kitchen	0.50	0.50
	d) For each efficiency hotel/ motel or rooming house unit	1.00	1.00
C.	Schools		
	a) For each classroom	1.00	1.00
D.	Commercial	*	**
E.	Floor Drains, All Uses		
	a) Additional per 1,000 sq. ft. or part of tributary area	0.30	0.30

* Minimum one (1) unit, plus total actual annual metered water usage greater than 100,000 gallons divided by 100,000 gallons

** Minimum one (1) unit, plus total estimated annual water usage greater than 100,000 gallons divided by 100,000 gallons

		Minimum Service Units for Annual Charge Purposes	Minimum Service Units for Initial Connection Charge Purposes
b)	Additional for floor drains per bay where occasional car washing may be expected	0.33	0.33
c)	Additional for floor drains per bay where occasional truck washing may be expected	0.66	0.66
F.	Swimming Pool Drains		
a)	For each 10,000 gallons or or part thereof capacity	0.10	0.10

* Minimum one (1) unit, plus total actual annual metered water usage greater than 100,000 gallons divided by 100,000 gallons

** Minimum one (1) unit, plus total estimated annual water usage greater than 100,000 gallons divided by 100,000 gallons

General Notes Regarding Sewer Service Charge

1. Interest will be charged on delinquent accounts at the maximum rate permitted by statute.

2. Charges for new installations, connections, inspections, etc., will be made on the basis of actual cost to the Township.

3. Charges are levied in advance of service.

4. Mixed use and multi-occupant properties shall be charged service charges and connection charges per unit based on each separate use.

SECTION 4 - BILLING, PAYMENTS, DELINQUENCIES, ETC.

4.1 Rendering of Bills for Sewer Service

a) A bill for sewer services will be rendered on a monthly basis.

b) Sewer service charges for each new unit will be initiated upon connection to sewer system.

4.2 Delinquent and Disputed Accounts

Any bill unpaid thirty (30) days after the due date shall be classified as delinquent and shall be charged at the maximum statutory interest rate per month calculated from the original due date. Any bill unpaid forty-five (45) days after presentation shall be subject to discontinuance of service after not less than five (5) days written notice.

If service is discontinued for non-payment of the account, it will not be restored until the "turn-on-fee" (payable in cash only), plus all unpaid charges and interest are paid or satisfactory arrangements have been made for payment. (See Rate Schedule).

If the check used for payment is returned by the bank for any reason, a processing fee will be charged against the account. (See Rate Schedule).

Any unpaid balance of service charges and interest thereon shall be a lien against the property and action shall be initiated pursuant to the procedures specified under N.J.S.A. 40:14A-1 et seq.

Notice of delinquent charges shall be given to Township officials periodically and shall be given annually to the Tax Collector of Allamuchy thirty (30) days prior to the Township posting notice of tax sale.

4.3 Discontinuance of Service

Service may, at the sole discretion of the Township, be discontinued for any of the following reasons:

(a) Misrepresentation in application.

(b) Waste of water through improper or imperfect pipes, fixtures, or otherwise.

(c) Use of sewer for any other property or purpose than that described in the application.

(d) Tampering with any service pipe, or any other appliance of the Township.

(e) Non-payment of any charge accruing under the application.

(f) Refusal of reasonable access to the property for purposes of inspecting, reading, repairing, or removing meters and/or plumbing.

(g) Making, or refusing to sever any cross connection between a pipe or fixture furnished by the Township and a pipe or fixture from any other source.

(h) Non-payment of bills within time prescribed.

(i) Violation of any rules of the Township.

4.4 Renewal of Service

Service will be renewed when the conditions under which such service was disconnected are corrected and upon payment of all accrued charges provided in the schedule of rates or rules of the Township.

4.5 Continuing Obligation to Pay Service Charge

Upon the connection to a sewer for an improved and usable property, the obligation to pay the minimum monthly service charge continues despite the failure to occupy the property or to use the sewer facilities, so long as the building or structure on the property is still available for use and the sewer facilities remain available.

Without written notice, it shall be assumed that connections are or may be active, thereby requiring sewer service. Charges will therefore continue until written notice of discontinuance.

4.6 Form of Payment

Form of payment may be by check, US currency or money order, except for "turn-on fee" which is payable in cash only. The Township reserves the right to refuse payment rendered in significant amounts of coin. For any property on tax title lien, or any account where a check was returned by the bank, payment must be in certified check, money order, or US currency.

4.7 Disconnection of Sewerage Facilities

In the event that a sewer lateral service will be permanently discontinued, the Township shall be notified in writing that the service billing will be terminated. The property owner must file Form E-5 for Disconnection of Sewerage Facilities, and the sewer lateral shall be permanently sealed watertight by the Township, or by the property owner in a manner subject to the approval of inspection by the Township, with all costs of review and field observation incurred by the Township being borne by the property owner.

SECTION 5 - RESPONSIBILITY FOR SERVICE

5.1 Reasonable Access

Properly identified authorized agents of the Township shall have the right of access to the premises served, at all reasonable hours, for the purpose of reading meters, collecting samples, examining fixtures and pipes, observing the manner of use, and for any other purpose which is proper and necessary in the conduct of the Township's business.

5.2 No Oral Agreements

No agent or employee of the Township has authorization to orally bind the Township by any promise, agreement or representation not provided for in these Rules and Regulations.

5.3 Damage and Repairs

Whenever any person(s), firm(s), partnership(s), corporation(s), or any combination thereof causes or has caused any damage to the sewer system or facilities of the Township, the party or parties causing such damage shall immediately notify the Township of such damage. The Township shall have the right to repair such damage or have such damage repaired, and shall have the further right to recover the full cost and expense of such repairs, including but not limited to the cost of work performed by Township employees, agents and/or contractors for materials, supplies and equipment used for each repair, from the party or parties causing such damage jointly or separately.

5.4 Mandatory Sewer Connection

The owner of any house, building or structure located on a street along the line of any sewer which is now in operation or is constructed in the future in the Township of Allamuchy sanitary sewer service area, shall connect the drainage of all sources of sanitary sewage in his house, building or structure to the sewer. Any owner of a building or structure who fails to connect to the sewer system after written notification by the Township of the availability of service, shall be subject to the penalties and remedies of the Township Ordinance.

SECTION 6 - TAMPERING WITH SYSTEM

6.1 Tampering With System

No person(s) shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenance or equipment which is part of the Township wastewater facilities. No person shall enter upon any property of the Township without the express permission of the Township.

Any violations will be subject to prosecution in municipal court with a maximum penalty of $1,000 fine and/or six (6) month imprisonment. These penalties are in addition to any other penalties and/or fines that may be assessed for violation of these Rules and Regulations.

SECTION 7 - INDIVIDUAL SERVICES

7A. INDIVIDUAL CONNECTIONS AND SERVICES LINES

7A.1 Types of Individual Connections and Services

Following are the types of individual connections anticipated within the Township's system:

(a) Resumption of service through an existing building sewer and house connection (including change of ownership or type of service).

(b) Installation of a new building sewer from a structure to an existing house connection on the Township's system.

(c) A new building sewer and a new house connection tapping into the Township's system.

7A.2 Permits and Applications (Form E-1 through E-5)

All individual connections to the Township's system, whether using existing or new facilities, must apply for a permit for connection of the sanitary sewer into the existing Township system.

For all commercial or industrial connections to the Township's system, whether using existing or new facilities, an application must be submitted on Form E-2, titled "Application for Individual Commercial Sewer Service", together with detailed plumbing plans and supporting data as may be required. In addition, the Township may require submission of a form entitled "Application for Industrial Sewer Connection and Agreement for Industrial Wastes", Form E-3.

Applications must be signed by the property owner and the customer requesting service, with both parties accepting financial and legal responsibility for the connection and its use. The accepted application will constitute a contract between the Township and the Applicant(s), obligating the Applicant(s) to pay the Township's established rates, and to comply with the Township's Rules and Regulations.

All applications must receive the approval of the Township before the installation is started. All installations must be inspected and receive the approval of the Township before service is furnished.

An "Application for Change of Use of Existing Sewerage Facilities", Form E-4, must be made upon any change in service from that described in the original application or upon any change in ownership of a commercial or industrial property. The new customer shall be responsible for making application for approval by the Township, before sewage service is received or continued. There will be no charge for filing applications for change in type of service, unless special review or analysis is required.

Applications for new construction shall be accompanied by two sets of plans prepared by a licensed plumber, architect and/or engineer showing the proposed line from the structure to the Township main or the location of the existing line to be used. Plans must include all elevations. Upon completion of installation a certified As-Built Plan of the sewer lateral shall be provided to the Township.

The applicant must obtain and file permits for openings in State, County, Township or private roads and easements as required. The applicant must pay all fees, provide bonds or deposits, insurance and meet all traffic and safety requirements.

No applications for service will be accepted by the Township until the applicant has paid, or made satisfactory arrangements to pay, all arrears or charges at the subject premises, or due by the applicant at any premises now or heretofore occupied by him.

Application for new service connections will be accepted subject to there being existing mains in streets or right-of-way abutting the premises to be served, and subject to there being sufficient capacity available.

When a property owner has made application for a new service, or has applied for the reinstatement of an existing service, it shall be presumed that the piping and fixtures on the applicant's premises are in good condition. The Township will not be liable, in any event, for any accident, breaks, or leakage arising in any way in connection with the pipes or fixtures of the customer, nor for any damage to the property which may result from the usage thereof.

Building Sewers are under the jurisdiction of the Township and the Township Plumbing Inspector. Written approval of the Plumbing Inspector or a Certificate of Occupancy will be required before the Township will accept discharge of sewage into its mains.

An "Application for Disconnection of Sewerage Facilities", Form E-5, must be filed prior to disconnection. (See also Section 4.7).

7A.3 Township Responsibility

New connections to existing sewer mains will be at the expense of the Applicant, including tapping (if approved by the Township), fittings, pipe, labor and related materials. Such new connections and laterals will become the property of the Township to the property line or easement line. The Township will maintain such new connection and new laterals from the sewer main to the property line after installation, and after inspection and approval by a representative of the Township together with the Township Plumbing Inspector. Township maintenance will be for failure of material relating to connections and laterals from sewer main to property or easement line only. If stoppage is due to material originating from the premises served, the property owner will be billed for the repair.

7A.4 Size and Kind of House Connection or Building Sewer

The Township reserves the right to determine the size and kind of service lateral from the main to the property line or easement line, from the property line to the structure to be served, or from the main in the right-of-way to the structure to be served. The materials, location and installation procedures shall conform to the latest "Specifications for Sewer Construction" on file at the Township office, or to the requirements of the Township's Engineer. A clean-out is required behind the curb or at an approved location on each house connection, as per standard Township details.

That portion of the building sewer, service lateral and sewer clean-out installed and maintained by the owner shall be installed in accordance with the Township Plumbing Code and the Township specifications, and shall be inspected and approved by the Township Plumbing Inspector and the Department Inspector prior to backfilling the trench. Any construction not approved shall be immediately removed and reconstructed in an approved manner.

7A.5 Building Sewer Location

No building sewer shall be laid within five (5) feet of any gas pipe, water service or any other facility of any public utility company, nor within five (5) feet of any open excavation, vault or meter pit; nor shall the location be under any sidewalk or driveway unless approved by the Township Engineer. All building sewers shall be installed within the limits of the customer's property and a minimum of three (3) feet from any property line(s) or building walls. Landscaping shall be located so as to minimize root intrusion into the building sewer, and in no event shall trees be placed within five (5) feet of any building sewer.

Installation of building sewer shall be in accordance with all applicable local, State and Federal requirements and regulations.

7A.6 Elevation of Sanitary Fixtures

Under no circumstances shall any sanitary fixtures be located in a building at an elevation lower than the front curb elevation or street centerline elevation, whichever is higher unless special precautions are incorporated into the fixture from the sanitary sewer main because of high flows or a blockage.

Prior to installation of any fixture which may be lower than the elevation heretofore specified, the owner shall obtain the approval of the Township Plumbing Inspector and the Department on the type of precautions that will be taken to eliminate the potential flooding of premises with sewage. In the event a fixture is found to be installed at any point lower than heretofore specified, the Township reserves the right to revoke the sewer connection permit or discontinue service until the fixture is removed or positive control measures are instituted to eliminate any potential surcharging of the building with sewage.

In building sewers where lowest fixture is below the next upstream manhole, it is mandatory that special protective devices such as check valves be incorporated and maintained at all times in the building sewer by the owner.

Under no circumstances shall the Township be responsible or liable for any back-ups or surcharges into fixtures or structures located at an elevation lower than the curb elevation or street centerline elevation routing the property, or upstream manhole rim elevation, whichever is higher.

7A.7 Maintenance by Customer

All house connections, building sewers, sewer clean-outs and fixtures furnished by the customer or the Township shall be maintained by the customer in good order, and all piping and connections furnished and owned by the Township and on the property of the customer shall be protected properly and cared for by the customer. All leaks in the building sewer or other pipe or fixture in or upon the premises served must be repaired immediately by the owner or occupant of the premises. The customer shall be responsible for notifying the Township of the party engaged by said customer to do any maintenance work on the customer's building sewer, prior to work being commenced, and said party shall not backfill any trench until the work has been inspected and approved by the Township's representative. Any work not acceptable shall be immediately removed and replaced by work which is acceptable.

The Township shall in no way be responsible for maintaining any portion of the building sewer owned by the customer, or for damage done by sewage escaping therefrom; or for lines or fixtures on the customer's property; and the customer shall at all times comply with the applicable municipal regulations with respect thereto, and make changes therein, required by reason of changes of grade, relocation of mains or otherwise. The owner shall be responsible for all stoppages within the house connection and the building sewer from the building to the main, if caused by discharge from the buildings on the site.

7A.8 Prohibited Connections

Under no circumstances may any of the following be connected to the sanitary sewers, either directly or indirectly:

(a) Foundation underdrains, or sump pumps.

(b) Stormwater collector area drain or yard drain.

(c) Rain conductor or down spout.

(d) Grease pit.

(e) Air conditioning equipment, except condensate which will be permitted under conditions approved by the Township.

(f) Storm water inlets or catch basins.

(g) Drains from places of equipment or manufacturing process, except when specifically authorized under the provisions of these Rules and Regulations.

7A.9 Property Served by Single Building Sewer

A building sewer from the curb, easement line or right-of-way line to a property, shall not serve more than one building unless otherwise approved. Upon proper application of the owner, a property may be served by two or more building sewers, each of which, for billing purposes, may be considered as being one customer account.

7A.10 Single Building Sewer with Two or More Customers

Where two or more customers are now served through a single building sewer, when any violation of the Rules and Regulations of the Township occurs, with respect to either, customer, and said violation is not corrected after reasonable notice, the Township may take such action as may be taken for a single customer. However, such action will not be taken until a customer who has not violated the Township's Rules and Regulations has been given a reasonable opportunity to connect his pipe to a separately controlled building sewer.

7A.11 Policy on Blockages and Repairs

Following is the policy of the Township with regard to procedures for repairs of building sewers and house connections to the Township's system due to a stoppage or failure.

A. If the problem is found to exist between the property line or easement line and the house or building, then the property owner shall be responsible for proceeding with all necessary corrective work.

B. If the problem is found to exist between the property line or easement line and the main sewer, then the Township shall be responsible for proceeding with all necessary corrective work.

If the work is performed by the Township and it is found that the problem has been caused by faulty use of the sewer by the property owner, such as discharge of bulky materials, discharge of acids, etc., then all costs must be borne by the property owner, including the costs of labor of any Township personnel or contractors, and costs of equipment and materials provided by the Township, and shall be paid promptly by the property owner to the Township. If not paid promptly, the amount of said costs shall be added to the next sewer bill submitted to the property owner.

Under no circumstances shall the Township be responsible for damage to furnishings or house or building interiors.

7A.12 Unauthorized Connection

No person(s) shall uncover, make any connections with or opening into, use, alter, or disturb any public sewer, service lateral or appurtenance thereof without first obtaining a written permit from the Township.

7A.13 Floor Drains

The connection of floor drains to the sewer system may be permitted by the Township, on a case by case basis, subject to but not limited to the following criteria:

(a) No interconnection of storm water drains with the sanitary sewer system will be permitted.

(b) Written assurances satisfactory to the Township must be provided by all current and future owners of the property, that discharges into the floor drains will never include waste oil, gasoline, coolant, anti-freeze, brake and transmission fluids, paint, volatile or explosive liquids. Also, no discharge of any item prohibited by USEPA, NJDEP, or Township regulations shall be permitted. The property owner shall be responsible to determine restricted items. Such assurances may include deed restrictions, affidavits, annual permits, or other form of assurance determined by the Township.

(c) Floor drains located below street level are subject to the same requirements as fixtures under Section 7A.6 of these Rules and Regulations.

(d) The property owner shall be responsible for the maintenance of all floor drains.

(e) Notices are to be prominently posted and maintained, by the owner, instructing the building occupants as to the restrictions on floor drain use. Such notices must be maintained and replaced or updated when necessary.

(f) A grease, oil, and sand separator will be required on the outlet pipe from the floor drains as required in Section 7C.5 of these regulations, unless waived by the Township. The above noted devices will be located outside of any structure or building and subject to inspection by the Township. An approved clean-out must be installed between the above described devices and the property line, prior to connection to the sewer system.

(g) Additional pre-treatment units, controls, access manholes and special facilities may be required for specific installations.

(h) The Township may conduct tests of flow, utilizing a NJDEP approved laboratory. All costs will be borne by the property owner, including surcharge billing.

(i) The Township reserves the right to order the disconnect of floor drains from the sewer system for violations of these Rules and Regulations.

(j) Any floor drains in existence prior to the adoption of this regulation shall be required to conform to the terms of this section.

7A.14 Swimming Pool Connections

The connection of swimming pools to the sewer system may be permitted by the Township on a case by case basis after application, inspection and approval by the Township. Such approval will be conditioned upon the following matters:

(a) The only acceptable discharge will be from the pool contents, from treatment system backwash, and from restrooms. No discharge of other wastes will be permitted, particularly from but not limited to cleaning fluids, acid wash solutions, filter sand, leaves, twigs or other materials which would otherwise not be acceptable into the sanitary sewer system of the Township.

(b) In order to limit the rate of discharge, the maximum pipe size for connection to the Township system will be 2" diameter pipe for gravity systems. The maximum size for pumping systems will be 1" diameter pipe or an equivalent orifice. Exceptions may be made to this requirement on a case by case basis only in the event of a problem with pipe slope, or if the discharge is into a Township sewer 12" in diameter or greater.

(c) Connection to the Township system must be preceded by a screening device approved by the Township Engineer.

(d) The discharge pipe line must include a double check valve, or other approved backflow prevention method to insure against back-up from the Township system into the pool.

(e) Each application must be accompanied by a sketch showing the exact location of the desired connection, and the pipe line, valves, appurtenances, and pool structure. Any change from the plan must be noted on the as-built sketch.

(f) Connection to the Township sewer must conform to standard Township details.

(g) Written notice must be given to the Township upon each instance in which a portion or all of the pool water, except for routine filter backwash, is to be discharged into the Township system.

(h) The Township reserves the right to order the disconnection of pool drains from the sewer system for violation of these Rules and Regulations.

7B. DOMESTIC SERVICE

7B.1 New Domestic Customer Service

Under no circumstances shall any sanitary fixtures be located in a building at an elevation lower than the front curb elevation or street centerline elevation, whichever is higher, unless special precautions are incorporated into the fixture from the sanitary sewer main because of high flows or a blockage.

Prior to installation of any fixture which may be lower than the elevation heretofore specified, the owner shall obtain the approval of the Township Plumbing Inspector and the Department on the type of precautions that will be taken to eliminate the potential flooding of premises with sewage. In the event a fixture is found to be installed at any point lower than heretofore specified, the Township may revoke the sewer connection permit or discontinue service until the fixture is removed or positive control measures are instituted to eliminate any potential surcharging of the building with sewage.

Any and all construction work requiring supervision by Township personnel must be performed in conformance with applicable OSHA, PEOSHA, Confined Space Entry Regulations, and all other applicable Federal, State and Township regulations concerning job and employee safety. Township personnel will not participate at any job site where the above-noted regulations are not adhered to.

7B.2 Sump Pumps

Sump pumps for removal of storm water runoff or basement leakage are not permitted to discharge into a sanitary sewer. Discharge from existing sump pumps must be removed from the sanitary sewer system within 60 days after adoption of these Rules and Regulations by the Township.

Sump pumps will be billed at an annual rate in addition to the normal sewer charge (see Section 3). Charge for the sump pump will continue until the customer has notified the Township of its removal and a house verification by the Township has been made. Routine house inspections may be made by the Township to determine the existence of sump pumps. The customer will be billed in accordance with Section 3B.10. Sump pumps must not be connected to a public sewer, and the charge for such use is not intended as a sanction but only to recover the costs incurred.

7C. INDUSTRIAL OR COMMERCIAL SERVICE

7C.1 General Requirements

Industrial and commercial establishments making application for initial sanitary sewer service, or making additions or changes to existing sanitary sewer service or use, in addition to making written application for such service, shall furnish a detailed description of the type and size of buildings, and nature of the business to be conducted in each structure, the number and type of fixtures to be served, the type, volume and chemical characteristics of the waste to be discharged, and such other information as may be required. Such applications shall also furnish the Township four (4) copies of 24" X 36" or 36" X 42" plans showing at a scale, no less than 1" = 100', the following:

(a) The boundaries of the property.

(b) The location within the property of the structures to be served.

(c) The location and profile, (with respect to finished grade) of the services.

(d) Details of the proposed connections to the sewerage system, and arrangement and details of meter and sampler installations should they be required. Exact location of meters and sampling manholes is to be determined by the Township.

7C.2 Agreement Required

The Township may accept industrial wastes into the sanitary sewage system, upon execution of a formal, written agreement, and under and subject to the provisions appearing in said agreement, and the rules stated hereinafter. The agreement will set out in detail the characteristics of the wastes, the flow conditions which shall govern, the conditions and costs with respect to the physical connection or connections, and the annual service charges. The form of Agreement is as contained herein under Appendix "A". It will be the policy of the Township to consider each application on its merits, and to establish specific conditions applicable to the particular situation, for each agreement. No connection shall be made prior to execution of the agreement.

Any and all construction work requiring supervision of Township personnel must be performed in conformance with applicable OSHA, PEOSHA, Confined Space Entry Regulations, and all other applicable Federal, State and Township regulations concerning job and employee safety. Township personnel will not participate at any job site where the above-noted regulations are not adhered to.

7C.3 Industrial or Commercial Sewer Connection Applications and Fees

For a connection involving the acceptance of industrial wastes, the applicant shall submit complete data in accordance with Section 7C.1 along with a completed Application for Industrial Sewer Connection and Agreement for Industrial Wastes, Form E-3.

For a connection from a commercial property where the wastes are of a domestic quality, the applicant shall submit complete data along with a completed Application for Individual Commercial Sewer Service, Form E-2.

Applicant shall deposit with the Township a filing fee, review fees, and inspection fees, as described in the Rates section of these regulations.

7C.4 Prohibited Wastes

Wastes containing the following substances or possessing the characteristics listed below, will not be accepted:

(a) Any vapors or steam.

(b) Any fluids with temperature in excess of 110 degrees Fahrenheit.

(c) Any fluid wastes which contain in excess of 100 Mg/l of fat, oil or grease, either vegetable or mineral.

(d) Any volatile, explosive, or flammable substances such as benzene, gasoline, naphtha, fuel oil or similar substances.

(e) Any solids or viscous matter which may cause interference with the flow of wastes, such as ashes, cinders, concrete, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, manure, hair or similar substances. Equipment or trucks carrying such materials shall not be washed and have the wash water discharged into the system.

(f) Any fluid wastes having a pH value less than 6.0 or in excess of 9.0 or possessing other properties capable of causing damage or hazard to sewers, structures, treatment process, equipment or operating personnel.

(g) Any wastes containing toxic or poisonous substances in sufficient concentration to interfere with the sewage treatment process, to cause injury to animals or persons, or to create an unacceptable condition in receiving streams.

(h) Improperly shredded garbage.

(i) Any noxious or malodorous gas or substance, which is capable of causing a public nuisance.

(j) Highly colored wastes.

(k) Any radioactive substances.

(l) Septage, or septic wastes.

(m) Any wastes containing components which exceed limits set forth by the County, State or Federal regulatory agencies.

7C.5 Grease, Oil and Sand Separators

When, in the opinion of the Township Engineer, grease, oil and sand interceptors or oil reclaimers are required, they shall be provided and maintained at the expense of the owner, in continuously efficient operating condition. Grease and oil interceptors shall be constructed of impervious materials, capable of withstanding abrupt and extreme changes in temperatures. They shall be watertight, substantially constructed and equipped with readily removable access covers. Where deemed necessary in the opinion of the Engineer, cold water sprays shall be installed. The design and pertinent data shall be submitted to the Township for review and approval prior to construction or installation. Separators must be constructed entirely on the property of the owner. An approved grease separator must be used on the outlet sewer of every restaurant, and must be of sufficient capacity so that the requirements of Section 7C.4(c) herein shall not be exceeded at any time.

The owner must submit proof to the Township of periodic cleaning. Separators must be cleaned at least every three months, unless evidence is provided that this frequency may be expanded or reduced.

Separators are subject to inspection by the Township to insure maintenance. Inspections will be made during reasonable hours.

7C.6 Pretreatment

The Township reserves the right to require pretreatment and/or flow equalization where the chemical or flow characteristics of the proposed wastes, in the opinion of the Township Engineer, State or Federal agencies, make such pretreatment or flow equalization desirable or mandatory. Some of the characteristics which may indicate pretreatment are listed below:

(a) 5 day B.O.D. in excess of 300 Mg/l.

(b) Suspended solids in excess of 350 Mg/l.

(c) Any fluid wastes which contain in excess of 100 Mg/l of fat, oil or grease, either vegetable or mineral.

(d) Average daily flow in excess of 17% of rated capacity of the collection line or pumping station.

(e) Quantities of flow, concentrations, or both which constitute a "slug" as defined herein.

(f) Presence of arsenic, barium, cadmium, chloride, chromium, copper, cyanide, fluoride, iron, lead, magnesium, manganese, nickel, nitrate, selenium, sulfate, zinc, or pH values outside the acceptable limits as described in Section 7C.4. The following criteria shall apply:

(i) The substances listed below shall not exceed the following specified limits:

	Limit, Mg/l
Arsenic	0.10
Barium	2.00
Cadmium	0.02
Chromium (hexavalent)	0.10
Copper	0.20
Cyanide	1.00
Lead	0.10
Mercury	0.01
Selenium	0.02
Zinc	0.60

(ii) Persistent pesticides not to exceed one one-hundredth of the TL_{50} value of 96 hours as determined by appropriate bioassay.

(Persistent pesticides are defined as natural and synthetic materials having a half-life of greater than 96 hours, which are used to control unwanted or noxious animals or plants. They include fungicides, herbicides, insecticides, fumigants and rodenticides).

(g) Dissolved solids in excess of 1,500 Mg/l.

(h) Ammonia (NH_3) in excess of 40 Mg/l.

(i) Phenol in excess of 1 Mg/l.

(j) Chlorine demand in excess of 15 Mg/l.

(k) Hydrogen sulfide, sulfur dioxide, nitrous oxide or any halogen gas in excess of 10 Mg/l.

(l) Any other materials, substances or chemicals deemed to be hazardous and/or detrimental to the sewerage system.

In such instances where it is agreed that the industrial waste will be received following pretreatment, drawings and specifications shall be submitted for approval of the Township Engineer showing all pertinent details of the type of flowmeter, wastewater sampler and housing to be used, to meter and sample the flow of industrial wastes, and also details of the control manhole to be constructed on the industrial waste connection. The manhole shall be provided with adequate access manhole covers of approved type, through which access shall be possible by Township personnel at all times. Drawings, specifications, reports, etc. shall be submitted in quadruplicate and shall be prepared and sealed by a Professional Engineer, registered in the State of New Jersey. An approved shut-off valve may be required on the discharge sewer immediately upstream of the sampling manhole.

Where pretreatment and/or flow equalization facilities are required they shall be provided and continuously maintained in an effective operating condition at all times, at the expense of the industry.

Each industry connected to the Township sewer system shall be responsible for maintaining a quality of effluent from their premises, which conforms to the provisions established in their agreement with the Township. Sampling and analysis shall be done so as to conform with accepted practice, and in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater", published by the American Public Health Association, Washington, D.C.

The owner or operator of all retail food establishments, catering establishments, commercial food preparation facilities, meat processing facilities, and such other uses which may be designated by the Township, which may result in the accumulation of oils, fats, cellulose, starch, proteins or grease in the sanitary sewer system of the Township, may be required to add into each sanitary sewer line serving such use a continuous application of a bacteriological culture formulation to control and treat such discharges, which culture formulation and application schedule shall be approved by the Township. All appropriate records concerning the operation of such a program shall be made available to the Township on a monthly basis. The Township may require other remedies to correct the situation.

The cost of preparing and submitting this data for considera-tion by the Township shall be borne by the industry. Likewise, the cost of sampling and analysis to determine compliance with the terms of the agreement shall be borne by the industry, although conducted by the Township or its duly authorized representative.

7C.7 Control Manhole

Commercial or industrial customers permitted to connect to Township sewers, even though not initially being required to provide pre-treatment, may be required to provide a control manhole and/or meter and sampler as described in Section 7C.6 and 7C.9, whether upon initial connection or change in use.

7C.8 Penalties

In the event that any industry fails to conform to these regulations, or fails to comply with the terms and conditions of their agreement with the Township, which failure causes damage and/or costs of any sort to the Township or Township's employees, the Township shall determine the extent of the damage and/or costs and bill the industry accordingly. If such bill is not paid within ten (10) calendar days from the date of the bill, legal action may be instituted to enforce collection, and the Township may resort to termination of the connection after giving twenty-four (24) hours notice.

The Township reserves the right to cancel the agreement, upon written notice, in the event of failure to comply with the terms of the agreement, or the Rules and Regulations of the Township. In the event of imminent hazard to the system or personnel, or violations of the Clean Water Enforcement Act (Chapter 28, P.L. 1990) the Township reserves the right to terminate service immediately, and to substantiate the action within five (5) days thereafter.

As is reasonably practical, the Township shall notify the violator of the reason for termination and allow for appearance before the Governing Body.

7C.9 Industrial Waste Flowmeter and Sampler

The industry shall furnish, install and maintain a flowmeter of the totalized-indicator-recorder type, if required by the Township, to measure the discharge of industrial wastes, and a wastewater sampler to periodically take and preserve a portion of the wastewater stream, as described in Section 7C.6. The flowmeter and wastewater sampler must be approved by the Township, but the cost of said equipment and installation is to be borne by the industry. All costs of furnishing, installing and maintaining the industrial waste flow and sampling equipment will be borne by the industry and the equipment shall be readily accessible to Township personnel.

7C.10 Industrial Sewer Rates

Service charges for industrial wastes shall be as shown in the section on rates.

7C.11 Surcharge for High-Strength Wastewater

High-strength wastewater, including pretreated wastewaters, will be subject to rate surcharges. (See Appendix "B"). Surcharges shall be based on results of Township surcharge sampling program.

A single sample per quarter shall be presumptive that the strengths therein changed for the entire quarter in which the sample was taken.

7C.12 Industrial Service Revisions

The industrial wastewater parameters and the criteria for industrial waste limits are subject to future revision or modification as may be required by the New Jersey Department of Environmental Protection (NJDEP), the United States Environmental Protection Agency (USEPA), and/or the Township of Allamuchy.

7C.13 Air Conditioning Units

Air conditioning units will not be permitted to discharge clean water into a sanitary sewer. Recirculation devices shall be used, or excess water shall be discharged to a separate point of disposal. Similarly, there shall be no discharge to a sanitary sewer from other sources of clean water, as determined by the Township, such as condensate pumps, cooling towers, etc.

7C.14 Grease Traps

Grease traps will be required on all restaurant discharges, or on discharges from any facility which is expected to release quantities of grease and oil in excess of that of domestic waste. The type and manufacture of grease traps must be approved by the Township before installation.

Sizing of grease traps will be based upon the following criteria:

10 to 50 seat conventional restaurant,
with separated tables.....1,000 gallon grease trap with 500 lb. grease capacity.

51 to 100 seat conventional restaurant,
with separated tables.....2,000 gallon grease trap with 1,000 lb. grease capacity.

For restaurants over 100 seats, or for fast food restaurants, grease trap size will be determined based on anticipated flows and grease/oil quantities.

Specifications for grease traps are as follows:

Grease trap chamber shall be constructed of non-corrosive materials, such as reinforced concrete or fiberglass. The chambers shall be capable of sustaining 10-ton truck loading, and shall have baffles and fittings made of non-corrosive materials. Access shall be available at each end of the chamber, through minimum 20" diameter openings. Units shall be as manufactured by Tyler Pipe (Tyler, Texas), Zurn Industries (Erie, Penn.), or approved equal, approved by the Township Engineer.

SECTION 8 - SEWER MAIN EXTENSIONS

8.1 General Provisions

Persons proposing subdivisions or developments requiring a main extension for sewer service shall prepare applications described in this section with the necessary supporting documents. The policy of the Township is to permit extensions only when paid for and installed by the applicant. No facilities for collection, treatment or disposal of sewage within the service area of the Township shall be constructed unless the Township shall give its consent and the Township Engineer shall approve construction plans and specifications therefore.

It is the policy of the Township to charge connection fees for connection to its sewer system following the rates set forth in the Township's Rate Schedule. The connection fee is charged per Service Unit.

Unless otherwise approved, where locations do not front on a street or easement with a sanitary sewer, residential subdivisions containing three or more building sites or lots or any residential structure to be used by three or more families, regardless of volume of flow, and all non-residential developments such as schools, commercial buildings, industrial buildings and other structures, will be required to install a sanitary sewer system to be connected with the nearest existing sanitary sewer in the Township.

For residential subdivisions not fronting on a street or easement with a sanitary sewer and containing two or less building sites or lots, or if the lands are deemed by the Township to be too remote from any existing facilities, consideration will be given to an individual sewage system with a dry sanitary sewer system or approved alternative for future use in lieu of connection to existing facilities.

Any main extension and related facilities (other than industrial septic systems) installed under the provisions of this section, or easement required for the purpose, shall be transferred to the Township as hereinafter described.

During construction but before final acceptance, the Township shall have the right to use any completed portion of the system without waiving its right to further inspection or testing or to order correction of any defects provided the Township does not unreasonably delay inspection, testing and acceptance of that portion of the system.

Use of the sanitary sewer system for the discharge of sump pumps, or drainage from cellar drains, leaders, downspouts, drainage tile, cooling system drains and other similar discharges shall not be permitted.

Unpolluted industrial cooling waters and unpolluted drainage shall be discharged into a storm sewer or natural outlet.

Easements will be required for sewers not located within an existing public right-of-way. The width of such easements will be determined by the Township, depending on the size and depth of sewer to be located in the easement. Easements must be extended to the nearest adjacent property if future service will be required.

Easement documents must be in a form acceptable to the Township, and must incorporate the following language:

> No fill, material, machinery, appliances, or similar objects may be placed on the said premises which will impose an additional loading in excess of 100 lbs. per square inch (100 lbs./sq. inch) without the prior written approval of the Township. Provided, however, that nothing contained herein shall be deemed to limit the ability of grantors to use the land over the easement for the storage of vehicles.

8.2 Applications - General

A sequence of applications for sewer extensions are required for the Township's determination of needs, availability of service, effect of proposed extension, and inspection requirements for the extension. Application forms are available from the Township. No application will be considered unless a Professional Engineer registered in the State of New Jersey is in charge of the planning and design of the proposed sewerage facilities and has affixed his seal and signature to the submissions. Eight (8) original applications shall be submitted with the designated fees to the Township not less than thirty (30) days prior to the Township meeting at which action of the application is desired.

Applications shall be signed by the property owner. If the property owner is a partnership, applications shall be signed by a general partner, or, in the case of a corporation, by an officer of the corporation. The signature of agent, attorney or engineer is not acceptable.

Each application must be accompanied by those fees, deposits and guarantees described herein, or in the section of Fees and Charges. All fees accompanying applications shall be cash, certified check or acceptable other draft at the option of the Township. (For standard applications, see Appendix "A").

The review and inspection fees shall be placed in an escrow fund, with interest as required by law, from which expenses will be paid by voucher (see Section 3B.7). If so required by the Township, additional deposits shall be made by the Applicant to meet expenses.

Where deposits or guarantees are based on estimated construction costs, a submission shall be made by the Applicant's engineer and verified by the Township's engineer. The approved construction cost shall be based on the estimated period of construction and shall include all on-site, off-site, and off-tract work; and for bonding purposes a 20% contingency allowance will be added.

Inspection work by the Township, its employees, engineer or agents is intended only to review compliance of the work with the approved design documents. Such inspections (or lack of inspec-tions) are not intended to review safety precautions, adherence to State or Federal regulations, or hazards to the public, contractor employees, or third parties. Each applicant assumes full responsibility for damages or injuries caused on its work sites, and agrees to indemnify and provide separate defense for the Township and representatives against all actions or claims.

Where off-tract facilities are involved, the following policies shall prevail:

A. The Developer is considered responsible for providing off-tract facilities to provide capacity for his development.

B. The design of off-tract facilities is to be undertaken by the Developer, and shall be subject to design standards established by the Township and subject to review of the Engineer and approval of the Township. The off-tract design is based upon the total community needs, rather than capacity for the development alone. The design parameters shall be provided to the Developer by the Township.

C. Where the Township requires additional capacity for areas outside of the development, the Township will assume the additional cost for increase in facilities size to service such areas.

D. Off-tract facilities shall be installed by the Developer, and shall be subject to design standards established by the Township and subject to review of the Engineer and approval of the Township. The Developer's share of the costs must be available to finance the initial construction (i.e. the Township shall not be required to finance the Developer's share) unless specific alternate arrangements are approved by the Township.

E. The Township's share of off-tract facilities may be credited against connection fees. If the Township's share exceeds the total of all connection fees, a lump sum payment may be made toward the cost.

F. All approved and accepted on-site and off-tract facilities installed by the Developer shall be transferred to the Township, where they lie in public rights of way or easements. Said transfer of facilities must take place prior to the release of performance guarantees.

8.3 Application for Conceptual Review - Form A

An application describing the proposed residential*, commercial, or industrial development, or other project, shall be submitted to the Township with supporting data to determine the economic and technical feasibility of extending sewer service. This application shall be submitted concurrent with filing of a subdivision or site plan application with the Allamuchy Planning Board or Zoning Board. The Township may defer or waive certain parts of this supporting data at its discretion where the cost of data preparation is excessive for the development or project planning and approvals. Approval of this application shall extend for a period not to exceed one year from date of approval, unless a Township Application for Construction of Sewerage Facilities (Form C) has been submitted.

In addition to the application, the Applicant shall furnish eight (8) copies of a general location plan (min. scale 1" = 100') showing streams, streets, lots, block(s), and tax map numbers, the location of any existing water distribution and/or sanitary systems in the area, the proposed system outline and route of construction, the estimated quality and volume of flow and a copy of the application submitted to either the Planning Board or Zoning Board. Elevations shall be based on mean sea level datum.

The Township shall analyze the submitted applications and supporting data and report to the Applicant the Township's recommendations and/or findings within sixty (60) days of the application being deemed complete. These findings may be furnished to the Township Planning or Zoning Board as support material.

If the Township determines that portions of the existing downstream system do not have sufficient capacity to accept flow from the proposed development, then the Township may require payment for, or the design and construction of, supplementary off-tract facilities to accommodate the additional flow.

*Applies to three (3) or more residential units.

8.4 Application for Review of Pumping Station Facilities - Form B

This application shall be submitted following preliminary approval of the Allamuchy Planning Board or Zoning Board, copy of which shall accompany this application.

An application and supporting data specifying the engineering details of the proposed project will be analyzed for compliance with Township engineering standards including provisions for orderly growth.

This form is filed after approval of Form A on all applica-tions, and must be submitted within twelve (12) months after conceptual review approval or reapplication for conceptual approval will be required. The applicant shall specify whether phased construction is intended.

This application shall be accompanied by eight (8) copies of the Engineer's Report, construction cost estimate, drawings (horizontal scale 1" = 30'), specifications, manufac-turers' data, and other material needed to permit a detailed engineering review. The Engineer's Report shall clearly define the design criteria used in connection with population, flow, layout, pumping station design, equipment selection, etc. All drawings submitted shall be the latest drawings approved by the Township and shall be kept current. Final drawings filed by the applicant shall include notations as to the transfer of easements and sewerage facilities similar to the notations required under Section 8.10.

The application and supporting data will be reviewed by the Township to determine compliance with the Township's Rules and Regulations, applicable statutes, and projected growth patterns. Approval of this application, with conditions set by the Township, shall be a mutual agreement between the applicant and the Township regarding the terms and conditions for providing sewer service, including the construction or financing of off-tract facilities considered necessary by the Township.

The Township shall approve or disapprove an application within sixty (60) days of the application being deemed complete.

The Applicant shall pay all permit and application fees to the Township (see Fee Schedule), as well as applicable fees to Township of Allamuchy and New Jersey Department of Environmental Protection for permits to construct sewers and/or other structures within flood plains, wetlands and the right-of-way limits of State, County, Municipal and private roads and all railroads, and all other permits must be secured by and paid for by the Applicant.

The Applicant must inform and secure any necessary clearance and/or approval from any public utility involved. Proof of such notice and/or approvals shall be filed with the Township.

8.5 Application for Authorization to Construct - Form C

This application shall be submitted following preliminary approval of the Allamuchy Planning Board or Zoning Board, copy of which shall accompany this application.

An application and supporting data specifying the engineering details of the proposed project will be analyzed for compliance with Township engineering standards including provisions for orderly growth.

This form is filed after approval of Form A on all applica-tions, and must be submitted within twelve (12) months after conceptual review approval or reapplication for conceptual approval will be required. The applicant shall specify whether phased construction is intended.

This application shall be accompanied by eight (8) copies of the Engineer's Report, construction cost estimate, drawings (horizontal scale 1" = 30'), specifications, manufac-turers' data, and other material needed to permit a detailed engineering review. The Engineer's Report shall clearly define the design criteria used in connection with population, flow, layout, sewer and pumping station design, equipment selection, etc. All drawings submitted shall be the latest drawings approved by the Township and shall be kept current. Final drawings filed by the applicant shall include notations as to transfer of easements and sewerage facilities similar to the notations required under Section 8.10. The drawings shall include finished floor grades which are necessary to insure that no new fixture is installed below the street elevation without the required check valve or other suitable device being installed by the developer.

The application and supporting data will be reviewed by the Township to determine compliance with the Township's Rules and Regulations, applicable statutes, and projected growth patterns. Approval of this application, with conditions set by the Township, shall be a mutual agreement between the applicant and the Township regarding the terms and conditions for providing sewer service, including the construction or financing of off-site facilities considered necessary by the Township.

The Township shall approve or disapprove an application within sixty (60) days of the application being deemed complete.

The applicant shall pay all permit and application fees to the Township (see Appendix "B" for Fee Schedule), as well as applicable fees to New Jersey Department of Environmental Protection (NJDEP) for permits to construct sewers and/or other structures within flood plains, wetlands and the right-of-way limits of State, County, Municipal and private roads and all railroads, and all other permits must be secured by and paid for by the Applicant. In addition, the Applicant shall prepare all applications and submit all data required by the current Rules and Regulations of the NJDEP, including but not limited to:

(a) NJDEP Form TWA-1, with engineer's signature and seal where designated, 3 copies.

(b) NJDEP Form WQM-006, Engineer's Report, signed and sealed, 3 copies.

(c) NJDEP Form WQM-003, Endorsements, signed and sealed as required, 3 copies.

(d) Township of Allamuchy Planning or Zoning Board resolution approving the project, 2 copies.

(e) Receipts of notifications to proper agencies, 2 copies.

(f) U.S.G.S. Quad Map, 3 copies.

(g) Final Plans and Profiles, signed and sealed, 6 copies.

(h) Checks for proper application fees payable to "Treasurer, State of New Jersey."

The applicant must inform and secure any necessary clearance and/or approval from any public utility involved. Proof of such notice and/or approvals shall be filed with the Township.

Before construction may commence, the Applicant must also furnish the following:

(a) NJDEP approval to construct.

(b) Performance guarantees and inspection fees, as hereinafter specified.

(c) Insurance certificates, with coverage as hereinafter specified.

(d) Schedule of construction.

(e) Payment for off-tract facilities.

(f) Easements and rights-of-way.

Approval of construction by the Township will be void and invalid after one (1) year unless substantial construction has commenced on the approved facilities. Where construction has commenced within the one (1) year period, approval will be automatically renewed for a successive one (1) year period, after which a request must be filed for an extension of time. Should a project not commence substantial construction within the one (1) year period, the application as indicated shall become void and invalid and will require a renewal application to the Township.

A renewal application fee under Appendix "B" shall be charged. Should the application be resubmitted in its previous form, without need for change, the application may then be renewed by the Township without additional review. Should there be any change in the application in site or system condition, or in the Township Rules and Regulations, an entirely new review, with the appropriate fees, may be required. It shall not be necessary for Township to notify an applicant that his time period has expired, that will be the responsibility of the applicant. Application shall be required upon the expiration of any of the above noted time periods.

Capacity in the system will not be reserved unless a) the Township approval is still valid, and b) all connection fees are paid.

8.6 Application for Performance Guarantee Reduction/Release - Form D

Upon satisfactory completion of construction, inspection, and testing, the applicant shall request that the Township approve the installed system (or part thereof).

Ownership, maintenance and operation of the system shall be the responsibility of the Township only after specific written final acceptance is issued by the Township Engineer for all or part of the system. Unless this written final acceptance is issued by the Township Engineer, the ownership, maintenance and operation shall remain the responsibility of the Applicant. However, operation of the system may not commence until a permit for operation is issued by the Township Engineer and notification has been sent to the State Department of Environmental Protection. The applicant will be subject to all and any payments of any fines, levies and/or assessments prior to the final acceptance of the ownership of the system by the Township.

The application shall be accompanied by:

(a) Three (3) copies of as-built plans (as described hereinafter), one of which must be reproducible, prepared and certified by the applicant's engineer and approved by the Township engineer.

(b) All necessary documents, legal descriptions and plans approved by the Township that will permit the dedication and/or acceptance of all necessary facilities, property and easements that are in inherent and necessary part of the complete project. (Also see Section 8.1).

(c) Proof of payment of all fees and charges required by the Rules and Regulations up to and including this application.

(d) Operating Permit for that portion of sewerage facilities covered by this application.

(e) Releases from all parties having jurisdiction over any part of the project.

(f) Certified copy of Final Map as recorded with the County Clerk.

(g) A written release from any legitimate complaint on record with the Township (or a suitable Township inspector's report on the complaint).

(h) A signed voucher for release of cash bond.

Upon recommendation of the Township Engineer, a partial reduction in the performance guarantee may be approved by the Township.

A Maintenance Bond as described in Section 8.9 shall be posted upon approval of Performance Bond Release.

8.7 Performance Guarantee and Insurance

A performance guarantee satisfactory in form to the Township, in the amount of at least 120% of the total approved construction cost of that portion of the project covered by the application, shall be furnished with the Application to Construct (Form C). The guarantee shall contain an "evergreen" clause, and shall remain in full force and effect for the duration of construction and until release is approved by the Township. The guarantee shall assure the Township of complete acceptable construction, and shall further guarantee that said construction will be in accordance with the Rules and Regulations of the Township, and the plans, specifications, Engineer's Report, and cost estimate approved by the Township Engineer. The approved guarantee shall be in the form of a 90% performance guarantee by an approved surety and 10% cash or certified check. The amount of the required performance guarantee may be increased for due cause by the Township, including periods of construction extending more than one (1) year. In the event of default or non-performance by a developer, as determined solely by the Township, part or all of the performance guarantee may be applied by the Township to completion of the work.

The applicant prior to the commencement of construction, shall furnish to the Township satisfactory certificates of insurance indicating that the applicant has in force and will maintain in full force and effect for the duration of the construction the following coverages:

(a) Workmen's Compensation Insurance - with limit under Coverage B for Employer's Liability set at $500,000.

(b) Contractor's Comprehensive General Liability Insurance - with limits for personal injury of $2,500,000 including accidental or wrongful death on account of any one occurrence; also limits for property damage of $500,000 on account of any one occurrence and $1,000,000 on account of all occurrences. The "x", "c" and "u" exclusions shall be removed from liability policies.

(c) Motor Vehicle Insurance - with limits as in (b) above.

(d) Subcontractor Insurance - each contractor working on the site, or in connection with this project, must carry identical insurance coverage to that listed herein.

(e) The applicant shall agree to indemnify and save harmless the Township of Allamuchy, its officers, Engineers, agents and servants from and against any loss, resulting from negligence or the fault of the applicant in the case of work covered by the application. Further, the applicant shall also indemnify and save harmless the Township (including costs of providing a defense) against any damage done to other utilities arising out of the applicant's operation.

(f) The expiration date shall be listed for each policy, and certifications should indicate that thirty (30) days notice will be given to the Township of expiration or cancellation of policies.

(g) Insurance certificates must identify the subject project or development by name and Township project number.

Said coverage shall be duly issued by an insurance company authorized to do business in the State of New Jersey. The Township and its Engineer shall be named as an additional insured on the applicant's insurance policy. In cases where the character or nature of the proposed construction are such as to present an unusual hazard or higher than normal risk of damage or injury, the Township may require the provision of increased amounts of liability and property damage insurance.

The contractor, developer and/or builder is totally respon-sible for safety precautions on or off the site for operations relating to a project, and must carry insurance or be personally responsible for personal injury or property damage claims from employees, the public, or third parties. It is the responsibility of the developer that all policies must remain in full force and effect until approved completion of construction, including any final repairs.

8.8 Construction Procedures

No construction may start without "authorization to construct" from the Township, a "permit to construct" from the State Department of Environmental Protection, where required, and a minimum one (1) week's notice to the Township of intention to start work.

During construction, the Township intends to have personnel present on the site to observe the installation of sewerage facilities. The purpose of such observations will only be to assure an acceptable installation. The Township and its representatives shall have no responsibility for safety practices on the site, and/or shall not incur any liability for injury or damage caused by the contractor's operations. The cost of such observation shall be borne by the applicant.

Work may be rejected for the following reasons:

(a) if it is installed and/or backfilled without observations by Township personnel or representatives;

(b) if it is performed after the Township's authorized agent disapproves the installation procedures and/or materials;

(c) if it fails to pass testing or other requirements stipulated elsewhere in these regulations; or

(d) if it is not in compliance with the approved construction plans or specifications.

Work will be approved only after final observation, testing, corrective work, approval of restoration by the Township and property owners, and written certification by the Township's Engineer.

The Township reserves the right to stop work on the project, if materials, workmanship, or operations are not in conformance with specifications or Township regulations. Failure to stop work may result in the following:

(a) Rejection of all work.

(b) Notification to surety that performance guarantees are being violated.

(c) Notification to Township that issuance of building permits and certificates of occupancy should be terminated.

(d) Police action if work is being performed in public rights-of-way or in a manner detrimental to the public welfare.

The contractor, builder, subdivider, and all subcontractors must abide by the requirements of the State Construction Safety Code, and the OSHA regulations. Neither the Township nor its engineer or agents are responsible for adherence to such regulations, or for other safety precautions related to the project. (Also see Section 9.4).

If there is any portion of the project left in a hazardous condition, or if reasonable orders issued by the Township or its Engineer are not followed, the Township reserves the right to use the cash portion of the performance guarantees to rectify the condition. Five (5) days written notice of such intention will be issued by the Township to the Applicant and his surety, unless hazards to the public require more urgent action. If the cash funds are inadequate, additional funds must be posted, or the Township may demand action by surety.

8.9 Maintenance Bond

Prior to final release of the performance guarantee the Applicant shall submit a maintenance bond from acceptable surety, in form approved by the Township. The bond shall be in the amount of 15% of the original approved construction cost estimate, and shall extend for two (2) years from the date of the resolution releasing the performance guarantee, and remain in effect until an acceptable final inspection. No partial maintenance bonds will be accepted.

8.10 Design and As-Built Plans

Upon submission for acceptance (Form D), as-built plans shall be submitted to the Township, using the following guidelines and check list:

- Drawing Size: Approx. 24" X 36"
- Name of development and lot and block number in title box, and "As-Built" clearly labeled.
- Horizontal Scale: 1" = 30'
- Date of as-built survey and name of surveyor
- North arrow
- Profiles
- Distances
- All other utilities shown on plan or encountered
- Invert and rim elevations
- Slopes
- Locations of house connections or laterals
  - horizontal location, distance from downstream manhole
  - horizontal location of plugged end relative to two permanent structures
- Notations as to the finished elevations of any structure wherein fixtures lie below curb grade, and as to the facilities (e.g. check valves) used on the connection.
- Location of pipe in easements (easements labeled)

- Location of manholes in easements (tie to existing structures)

- Pipe materials
  - main line sewer (class of pipe)
  - laterals - size and material

- Certifications
  - drawings signed and sealed by developer's engineer (P.E. or L.S.)

- Transfer of Ownership of Easements and Sewerage Facilities, using wording:

  > Sanitary sewer easements shown on this drawings, previously dedicated to the Township, and all sanitary sewerage facilities installed as shown herein are hereby accepted by the Township of Allamuchy.

- Drawing Materials - mylar or linen reproducibles (one set) and blue-line prints (two sets) upon final acceptance.

SECTION 9 - TECHNICAL DESIGN AND CONSTRUCTION STANDARDS

9.1 State and Township Standards

Sewerage facilities shall be designed and constructed in strict accordance with the current edition of the New Jersey Department of Environmental Protection "Rules and Regulations", and "Plumbing Code of New Jersey", and the Township's "Specifications for Sewer Construction".

9.2 Special Facilities

Pumping stations, metering and sampling stations, air relief and vacuum breaker chambers, pretreatment facilities, flow equalization facilities, package treatment plants and other sewerage facilities shall be designed and constructed subject to the approval of the Township and based on the specific characteristics of each project.

9.3 Construction Standards

Construction shall meet the specifications under Section 11 for sewer system and pumping station construction. Pipe, manholes, pumping station equipment, and appurtenances shall be installed in accordance with manufacturer's recommendations and Township standards. The methods and means of construction shall be employed so as to be in accordance with the highest standards of construction, and so as to produce an end product which is durable and safe. Any questions as to the construction methods used shall be resolved by the Township or the Township's Engineer.

All work shall be open for access by representatives of the Township, who may inspect all construction and reject any non-conforming work or materials. Construction is not deemed complete until after final acceptance, which will not occur until all work is tested and all sites cleaned, final pavement is placed over sewer installations, a suitable operating and testing period is completed for pumping stations, and a final inspection is made by Township personnel.

The Township or its Engineer may require testing of installations, materials, or equipment, to insure adherence to specifications and standards. Any items that fail such testing shall be repaired or replaced as approved.

Notice shall be provided to all utilities and public safety officials when operating in public rights-of-way. During construction, all public or private utilities shall be properly protected. Any damaged facilities shall be promptly repaired or replaced to the satisfaction of their owners.

9.4 Safety Provisions

IT IS UNDERSTOOD THAT THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. The Contractor shall take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the work and other persons who may be affected thereby.

The Contractor will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction for the safety of persons or property, or to protect them from damage, injury or loss. The Contractor will erect and maintain, as required by the conditions and the progress of the work, all necessary safeguards for safety and protection and in addition he will comply with all applicable recommendations of the Manual of Accident Prevention in Construction of the Associated General Contractors of America, Inc.

If at any time, in the opinion of the Township, the work is not properly safe in respect to public travel, persons on or about the work, or public or private property, the Township shall have the right to order such safeguards to be erected and such precautions to be taken as it deems advisable and the Contractor shall comply with such orders. If, under such circumstances, the Contractor does not or cannot immediately put the same into proper and approved condition, or if the Contractor or his representative is not upon the site so that he can be immediately notified of the insufficiency of safety precautions, then the Township may cause the work to be put into such a condition that the work site shall be, in its opinion, in all respects safe, and the Contractor shall pay all expenses of such labor and materials, as may have been used for this purpose by it. Such actions of the Township, or its failure to take such action, shall in no way relieve the Contractor of the entire responsibility for any cost, loss or damage by any party sustained on account of the insufficiency of the safety precautions taken by him or by the Township acting under authority of this section.

The Contractor shall comply with the Department of Labor Safety and Health regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (PL91-596) and under Section 107 of the Contract Work Hours and Safety Standards Act (PL91-54).

The project shall be subject to all of the Safety and Health Regulations as promulgated by the U.S. Department of Labor on April 17, 1971, and all other pertinent regulations. Contractors are urged to make themselves familiar with the requirements of these regulations.

The Contractor shall comply with Federal, State and local Confined Space Entry Program, and no Township personnel will be permitted to participate in any work or interact with the Contractor if the Contractor does not have the appropriate equipment in compliance with said statute and with the Township Program.

The Contractor shall keep in his office, ready for immediate use, all articles necessary for giving "First Aid to the Injured". He shall also have standing arrangements for the immediate removal and hospital treatment of any employees or persons who may be injured on or about the work.

Any and all construction work requiring supervision by Township personnel must be performed in conformance with applicable OSHA, PEOSHA, Confined Space Entry Regulations, and all other applicable Federal, State and Township regulations concerning job and employee safety. Township personnel will not participate at any job site where the above-noted regulations are not adhered to.

SECTION 10 - INSPECTION AND TESTING OF INSTALLED FACILITY

10.1 Inspection of Sewage System During Construction

All construction of sewage systems shall be under the jurisdiction of the Township, either directly, or through inspectors under the supervision of the Township Engineer.

(a) The Township Engineer and the Applicant's Engineer shall enforce compliance with the approved plans and specifications.

(b) The Township Engineer shall have the authority to have work discontinued in the event of non-compliance.

(c) The Applicant shall furnish the name of the occupant, the street address, and lot and block number to the Township at least two (2) weeks prior to a request for the certificate of occupancy from the Construction Code Official to assure that the lateral inspection has been accomplished, and all fees have been paid.

(d) No sewer connections shall be made to the appropriate street main whether tested or not unless under the supervision and inspection of the representative for the Township.

A temporary, leak proof bulkhead type plug shall be installed in the upstream (inlet) side of the manhole furthest downstream in any sewer main or branch under construction and shall remain intact and unloosened until permission is received from the Township to remove same. This permission will not be granted until each section of the sewer has been cleaned and flushed in a manner acceptable to the Township.

10.2 Testing of Completed System

All sewer mains shall be subjected to either an infiltration or exfiltration test, or under special circumstances to a low pressure air test. Exfiltration tests shall be conducted in lieu of infiltration tests when the pipe has been laid above the groundwater level. Infiltration tests shall be used only when the groundwater level is above the crown of the sewer and completely surrounds the pipe during the period of testing. The tests shall be performed between two manholes or as otherwise directed by the Engineer for the Township and shall include all related sewerage facilities including house connections.

The contractor shall furnish all labor, materials and equipment necessary for the testing.

Exfiltration tests shall be under at least a four (4) foot head or a pressure corresponding to a head equal to the depth of the lower manhole of the section under the test.

Allowable infiltration or exfiltration shall not exceed a rate of 100 gallons per mile, per inch of diameter of sewer, per 24 hours.

In order to ensure that there shall be no gushing or spurting streams entering the sewer, the contractor shall be held responsible for water-tightness of the line, shall satisfactorily repair all joints and other parts not sufficiently watertight and then shall make additional tests of the infiltration or exfiltra-tion until the test results conform to the requirements given herein and until all visible leaks are eliminated.

Detailed criteria for testing, and special requirements, are included in the Township's "Specifications for Sewer Construction".

Sewer Pipe Cleaning - After testing and before final acceptance of the work, the Contractor shall clean the entire sewer system, unless such procedures are specifically waived by the Township. The cleaning method employed shall utilized Jet-Vac Sewer Cleaner or approved equal, and all material collected at the downstream end of the system shall be removed by vacuuming, and shall not pass downstream.

Upon completion and visual acceptance, all lines are to be internally examined using a television camera, to check for improper joints, off-grade pipe, and damaged pipe. The inspection is to be witnessed on a monitor screen by Township personnel, or video tape is to be furnished, as approved.

SECTION 11 - SPECIFICATIONS FOR SEWER CONSTRUCTION

11.1 EARTHWORK AND BACKFILL

Limits of Excavation - Excavations shall be made to the approved lines which shall be of sufficient width outside the structures to give room for placing and removing forms for concrete and for forming pipe joints. Excavations for all structures shall not be plowed, scraped, or machine-dug closer than 3" to the finished subgrade. The last 3" of depth for all structures including pipe shall be removed with pick and shovel to the exact lines and grades just before placing foundation material, or pipe supports. Due allowance shall be made for excavating to a depth below the pipe invert to accommodate foundation material or pipe supports. Bell holes shall be hand excavated for any pipe with a bell dimension larger than the pipe barrel.

In general, the widths of pipe trenches shall not be wider than the outside diameter of the pipe barrel plus 2' at the level of 1' above the top of the pipe unless otherwise approved.

Blasting for rock excavation will be permitted only on approval of methods and in compliance with applicable Federal, State and local regulations.

Storage and Disposal - Excavated material, which is suitable and approved for backfill and fill shall be placed in storage piles unless or until it can be placed in the work. It shall not be placed close to the sides of excavations, where the weight of the material could create a surcharge on such sides, whether sheeted or not.

Unsuitable material, or material in excess of that required for fill, backfill or other purposes, including any stored surplus, shall be disposed of away from the sewer construction site.

Sheeting and Bracing - Where excavations are made with sides which require supporting, sheeting and bracing shall be used, of sufficient strength to sustain the sides of the excavations and to prevent movement which could in any way injure the work, or diminish the working space sufficiently to delay the work. Sheeting shall be of a material that will not split while being driven. Sheeting and bracing shall conform to the requirements of the "Construction Safety Code" of the Bureau of Engineering and Safety of the New Jersey Department of Labor and Industry, and to OSHA requirements.

Dewatering - The Contractor shall provide, operate and maintain satisfactory facilities and equipment including well points, and coffer-dams if necessary, with which to contain, collect and pump all water entering excavations or other parts of the work to suitable places for disposal. All excavations shall be kept free of water until the work or structure to be built therein is completed.

Backfill and Fill - All backfill and fill under pipes and all structures shall consist of suitable approved foundation material. All other backfill and fill, unless otherwise specified or required, shall consist of a suitable selected and approved earth or sand generally from storage of approved suitable excavated material, free from rejected organic matter, boggy, peaty humus or other unsuitable material such as unconsolidated silt, rubbish waste, ashes or cinders and with less than 15% of size 200 sieve material. If sufficient suitable material for backfill is not available from the excavated material, as determined by the Engineer, the Contractor shall procure elsewhere a sufficient quantity of suitable bank run sand gravel and shall furnish and place such material. No frozen earth shall be used for backfill, and all stones more than 6" in the largest dimension shall be removed from acceptable earth for fill.

Backfills and fills shall be made to the slopes, grades, and elevations shown on the contract drawings. Backfills shall be compacted, as hereinunder specified, to a density at least equal to that of the adjacent undisturbed soil, so as to avoid future unequal settlement.

No backfill shall be placed until the structure has been inspected in place and approved. Backfilling shall be carried out as soon as possible after such approval.

Placing and Compacting Backfill - Trenches shall be backfilled from the top of the foundation material to a depth of not less than 12" over the pipes using only bank run sand and gravel. Such material shall be uniformly placed on each side of the pipe in 6" layers, wetted as required, and firmly compacted by approved tamping machines. Care shall be taken not to damage the pipe. After a compacted coverage of 12" has been made, the remainder of the trench shall be backfilled and mechanically compacted in 12" lifts, unless otherwise approved by the Engineer, to obtain a maximum 90% Modified Proctor Density to a Point 3' below the road surface. From this point, a minimum 95% Modified Proctor Density is required. Smaller lifts shall be required if this density is not obtained. The backfill material shall be wet or dry as required to obtain the required density.

When the trench is not in or across a dedicated street, or right-of-way, or any other place where pavement is not to be constructed, backfill shall be compacted to obtain a minimum 90% Modified Proctor Density.

Puddling for compaction will not be permitted except as approved by the Township Engineer. Bulldozing of backfill material into trenches will be prohibited unless it is done in uniformly spread layers, not over 12" thick and immediately machine tamped. The developer shall provide material as required to compensate for settlement of backfill and fill.

When sheeting is being withdrawn, all cavities left thereby shall be filled with suitable granular earth, hosed or tamped in place so as to thoroughly fill all voids.

The densities referred to above shall be based upon the latest Standard Test Methods for Moisture Density Relations of Soils and Soil Aggregate Mixtures Using 10 lb. Rammer and 18" Drop, ASTM Designation D-1557. Density control in the field shall be based on the latest Test for Density of Soil in Place by Sand/Cone Method, ASTM Designation D-1556.

Foundation Material - Foundation material used for pipe bedding, from a minimum 6" distance below the pipe invert to the lower quarter point of the pipe, shall be bank run sand and gravel or broken stone. Polyvinyl Chloride Pipe shall use broken stone or gravel. Pipe embedment material from the lower quarter point to 12" above the top of the pipe shall be bank run sand and gravel.

Bank run sand and gravel and broken stone shall conform to the requirements of the New Jersey Department of Transportation, 1989 Revision, Standard Specifications for Road and Bridge Construction, Section 901, *Aggregates.* Backrun sand and gravel shall be in conformance with Subesection 901.09, Soil Aggregate, Table 901.2 *Standard Soil Aggregate Gradations,* Gradation size I-3 or I-8. Broken stone shall be in conformance with Subsection 901.04, *Broken Stone,* Table 901.01, *Standard Sizes of Course Aggregate,* Size No. 57 (3/4"). Frozen and lumpy material shall not be used.

All foundation material shall be placed and compacted as directed and approved by the Engineer.

Construction Safeguards - All excavation for sewers and/or house connections shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, driveways, curbs, parkways and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the Township of Allamuchy.

11.2 PIPE AND FITTINGS

Pipe Material - Gravity sewer and house connection pipe shall be either PVC or Ductile Iron Pipe at the Contractor's option. Force mains shall be ductile iron. Pipe materials, fittings and installation shall conform to the applicable provisions of the following paragraphs.

PVC Gravity Sewer Pipe - This specification designates general requirements for polyvinyl chloride (PVC) Plastic Gravity Sewer Pipe with integral wall bell and spigot joints for the conveyance of domestic sewage.

Pipe and fittings shall meet minimum strength of SDR 35 and the be manufactured and tested to conform to the latest ASTM Specification D3034 for Type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings.

All pipe shall be suitable for use as a gravity sewer conduit. Provisions must be made for contraction and expansion at each joint with a rubber ring. The bell shall consist of an integral wall section with a solid cross-section rubber ring factory assembled, securely "locked in" place to prevent displacement. Sizes and dimensions shall be as shown in this specification. Standard laying lengths shall be 20 feet.

All fittings and accessories shall be as manufactured and furnished by the pipe supplier or approved equal and have bell and/or spigot configurations compatible with that of the pipe.

Installation of PVC piping shall conform to the bedding details shown on the Township of Allamuchy Standard Sanitary Sewer Details.

The temperature of the pipe shall be controlled during storage and installation to prevent linear expansions or contractions that may stress pipe joints.

The pipe shall be capable of carrying a trench load equal to 25' of cover. Under conditions of maximum cover the pipe shall be adequate to maintain a factor of safety of two against collapse. Cross sectional deflection shall be less than 5% after cover material has been placed and compacted. Axial deflection shall be less than 1/4" per 10 lineal feet of pipe. Before acceptance, a mandrel shall be passed through the pipe, of a size needed to check the clearance.

Ductile Iron Force Main Pipe - All ductile iron pipe and fittings shall conform in all respects to ANSI/AWWA Standard A 21:5/C-151, latest revision. Pressure pipe shall have a minimum thickness Class of 52 and gravity sewers shall be Class 50. Flexible joint pipe shall be equal to the "Tyton Joint" pipe manufactured by the United States Pipe and Foundry Company, "Super Bell-Tite Push-On Joint" pipe manufactured by Griffon Pipe Products Company or equal conforming to the latest edition of *American National Standard for Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings,* ANSI/AWWA Designation A21.11/C-111. Gaskets shall be full faced, furnished with plain tips. Gasket dimensions shall be in accordance with the manufacturer's standard design of dimensions and tolerances.

Plain ends of pipe for coupling joints shall be prepared in strict accordance with the requirements and instructions of the manufacturer of the coupling to be used.

All ductile iron pipe shall be externally coated with a uniform thickness (approximately 1 mm thick) of hot-applied coal tar coating. The finished coating shall be neither brittle when cold, nor sticky when exposed to the sun, and shall be strongly adherent to the pipe. The inside shall have cement mortar linings and bituminous seal coating in accordance with the latest ANSI/AWWA Designation A21.4/C-104 for *Cement-Mortar Lining for Cast Iron and Ductile Iron Pipe and Fittings for Water.*

For pressure pipe all horizontal and vertical bends of 22-1/2 or greater, force main pipe shall be harnessed back a minimum of 20' or two full pipe lengths, whichever is greater, in both directions. Actual harnessed lengths shall be related to maximum pressure and pipe diameter, and shall be approved by the Township. Harness rods shall be the same size as the bolts for mechanical joint pipe, AISC, A-50 high strength steel, conforming to the requirements of ASTM Designation A325. Where harness rods are used in conjunction with bell/spigot joint pipe, approved socket clamps shall be installed to brace the pipe bells against movement. The set bolts in all clamps shall be torqued to a minimum of 70 foot-lbs. to provide an adequate friction fit against movement.

All harness roads, clamps, and connectors shall be coated with two (2) coats of Epolon 22 Black Mastic as manufactured by Con-Lux Coatings (Sherwin-Williams), 8 mil. per coat, or equal. Thrust blocks will not be used in future or existing street locations.

Ductile iron pipe fittings for pressure pipe (including bends, tees, etc.) shall be furnished with mechanical joint bells on all inlets, outlets, and branches eventhough they may be used with flexible joint pipe. Flexible couplings shall be constructed of steel and shall be equal to Style 38 of the Dresser Manufacturing Division, or the similar product of the Smith Blair Corp. 11-5

Polyvinyl Chloride (PVC) Force Main Pipe - Force main piping shall be Schedule 80 PVC pipe and shall conform to the requirements of ASTM D1785, latest edition.

All fittings shall be Schedule 80 PVC (Polyvinyl Chloride) and shall conform to latest edition of ASTM D2466. Joints are to be solvent-welded. Solvent cement shall conform to the latest edition of ASTM D2564 "Solvent Cements for PVC Plastic Pipe and Fittings."

House Connections - House connections shall be as shown on the typical details, and specified herein. Except as otherwise shown, house connections shall be a minimum of 4" in diameter. The Contractor has the option of furnishing and installing PVC (SDR 35) with a minimum wall thickness of 0.18", or Ductile Iron Pipe Class 52. Fittings shall conform to the applicable provisions of the various pipe specifications as detailed hereinabove.

Watertight plugs or caps, as approved by the Engineer, shall be provided at the end of all house connections. Only watertight plugs with gaskets shall be provided at the end of all house connections, which are capable of withstanding exfiltration testing. Curb cleanouts shall be as shown on the "Standard Detail Sheets" and shall be equipped with recessed brass plugs, and with "Fernco" Donut-type adapters in order to relieve stress on the pipe. All cleanout plugs shall be vented.

The Contractor shall mark the curb or pavement opposite the end of each house connection, in a suitable and approved permanent manner, with at least three (3) distance measurements to permanent locations.

The Contractor shall be responsible for installing house connections on all improved building lots whether house connections are shown on the drawing or not.

Service laterals beyond the curb cleanout shall be a minimum of 4" in diameter, as required by the Township. Pipe joints of dissimilar material shall be made only with approved adapters. All house connection laterals shall have a minimum cover of 36", unless otherwise approved.

Check valves of an approved type will be required in all building sewers, house connections, or laterals, which serve fixtures below the street level. Further, check valves will be required on any new building sewer where the lowest fixture is below the rim of the next upstream manhole.

Pipe Laying and Installation - All pipe fittings shall be installed to the lines, elevations and grades shown or ordered, and in accordance with the manufacturer's recommendations.

Suitable tools and equipment shall be used for proper handling, storing and laying of pipe and fittings. In order to avoid damage to interior coatings, lifting hooks or bars shall not be inserted therein.

O-rings and gaskets shall be stored in locations where air temperatures are maintained within the manufacturer's tolerances.

Each pipe and fitting shall be checked for defects and injuries as installation proceeds. Imperfect pipe materials shall be rejected and removed from the work. Pipe found to be defective after installation shall be removed and replaced by undamaged material.

The Contractor shall excavate and dewater the trench below the pipe invert, to limits shown or ordered, and place the pipe on foundation material, as shown, specified or ordered.

A temporary leakproof bulkhead type plug shall be installed in the upstream (inlet) side of the manhole furthest downstream in any sewer or branch under construction and shall remain intact and unloosened until permission to remove it is received from the Township. The plug shall be securely tied to a manhole rung to insure against its being carried downstream.

Testing - The Contractor shall submit pipe certifications from pipe manufacturers for showing the pipe has been manufactured in accordance with the requirements specified herein.

Leakage Tests - Gravity Sewers - Leakage tests shall be performed on all gravity sewers and appurtenant structures prior to acceptance. Leakage will be determined by infiltration tests or by exfiltration tests as specified herein and as directed by the Engineer. Low pressure air tests may be used in lieu of infiltration/exfiltration tests with approval of the Engineer.

A maximum allowable amount of infiltration or exfiltration as determined by tests, shall be at a rate of not more than 100 gallons per inch of pipe diameter per mile of sewer per 24-hours. There shall be no gushing or spurting streams of water into or from the sewer. The phrase "per mile of sewer" shall refer to the total length of sewer measured through manholes. The Contractor shall supply all labor and equipment necessary for the proper performance of leakage tests.

Infiltration Tests - The groundwater leakage into the gravity sewer will be measured at such point or points as the Engineer may direct. The Contractor shall construct such weirs or means of measurement as shall be required, install pipe plugs, and shall perform all pumping deemed necessary by the Engineer to enable the test to be properly made.

Exfiltration Tests - When directed by the Engineer an exfiltration test shall be performed by subjecting the section of gravity sewer to be tested to an internal hydrostatic pressure test. The low end of the section of sewer to be tested shall be closed and the entire test section of sewer, including manholes, shall be filled with clean water so as to obtain a minimum level 2' above the top of the pipe in the upstream manhole. The rate of leakage from each section of sewer being tested will be determined by the Engineer by measuring the amount of water required to maintain a constant head of water above the top of the pipes for the full length of each section of the sewer being tested. The test shall be conducted for a minimum of four (4) hours.

Air Test - Low pressure air test shall conform to the Uni-Bell Plastic Pipe Association Recommended Practice UNI-B-6, "Low Pressure Air Testing of Installed Sewer Pipe", except as modified herein. This test method shall apply to all pipe materials. The section of line to be tested shall be plugged and air at low pressure introduced into the line. The gravity sewer pipe shall be tested under 5 psi pressure and shall be maintained for a period of five (5) minutes with no pressure drop. If the pressure drops during the test time, the line will be presumed to have failed.

Should the infiltration, exfiltration, or air test of any section of sewer show a rate of leakage into or from the sewers exceeding the maximum allowable rate of infiltration or exfiltration specified above, the Contractor shall locate, repair, or replace defective work in a manner directed by the Engineer. The entire section of sewer shall then be retested to determine if the infiltration/exfiltration rate meets the limits presented in this specification.

Television Inspection - Video inspection of sewers shall be used wherever, in the opinion of the Engineer, other tests cannot be performed.

Leakage Tests - Pressure Pipe - All pipe shall be pressure tested a minimum of seven (7) days after the last concrete thrust block has been cast if constructed with normal Portland cement.

Hydrostatic testing of the force main pipe shall conform to the latest edition of AWWA Standard C-600, Section 4 and AWWA Standard C-603, Section 19, respectively.

The pressure test shall be performed by increasing the hydrostatic pressure to a specified value and maintaining that pressure for a period of one hour. Any pipe, fittings, or valves found defective shall be replaced. Prior to performing the test, all air pockets and bubble may be eliminated. Hydrostatic test pressure shall be 1-1/2 times the working pressure or a minimum of 150 psi at the hightest point of the system unless approved otherwise by the Engineer.

The leakage test may be performed concurrently with the pressure test. If no pressure drop is seen during pressure test, the leakage test may be waived by the Engineer. If leakage is encountered during the hydrostatic test, the Contractor shall begin this leakage test which shall be accomplished by increasing the hydrostatic pressure to a specified value and maintaining of water that must be supplied into the newly laid pipe, or any valved section thereof, to maintain the specified leakage test pressure after the air in the pipeline has been expelled. The hydrostatic pressure for the leakage test shall be 150 psi. The leakage from each portion of the pipeline being tested shall conform to the following equation:

$$L = \frac{S\,D\,(P)}{133{,}200}$$

Where:
L = is the allowable leakage in gallons per hours.
S = is the length of pipe being tested.
D = is the nominal diameter of the pipe in inches
P = is the average test pressure during the leakage test in pounds per square inch gauge.

The Contractor shall provide all necessary facilities, water or compressed air, gauges, temporary bulkheads, weirs and other measuring devices, pumps and labor, as required and approved.

The Contractor shall notify the Engineer five (5) days in advance of the time the test is to be made. No test shall be accepted unless witnessed by the Engineer, his authorized representative or an authorized representative of the Township, and all test or repair methods must be approved in advance.

Sewer Pipe Cleaning - After testing and before final acceptance of the work, the Contractor shall clean the entire sewer system, unless such procedures are specifically waived by the Township. The cleaning method employed shall utilize Jet-Vac Sewer Cleaner or approved equal, and all material collected at the downstream end of the system shall be removed by vacuuming, and shall not pass downstream.

Upon completion and visual acceptance, all lines are to be internally examined using a television camera, to check for improper joints, off-grade pipe, and damaged pipe. The inspection is to be witnessed on a monitor screen by Township personnel, or video tape is to be furnished, as approved.

11.3 MANHOLES

Precast Concrete Manholes - Unless otherwise approved, manholes shall be constructed of precast reinforced concrete riser sections, an eccentric conical or flat slab top section, and a base section as shown or required, and shall be equal to Atlantic Precast Concrete Products precast concrete manholes. Where required, eccentric reducing sections shall be used to join riser sections of different diameters. Manufacture shall be by a wet, monolithic process. The top opening of the eccentric conical section, or top slab, shall be 30 inches, unless otherwise specified.

Manholes and appurtenances shall be as shown on the Typical Details.

Precast manhole sections shall be manufactured in accordance with ASTM Designation C478, latest edition. The minimum compressive strength of the concrete for all sections shall be 4,000 lbs. per sq. inch. The maximum allowable absorption of the concrete shall not exceed 9% of the dry weight.

Joints of the sections shall be formed entirely of concrete in accordance with the latest edition of ASTM Designation C361 and shall be made with a round rubber gasket installed in accordance with the manufacturer's recommendations. Joints shall be self centering and watertight against internal and external hydrostatic pressure with only the gasket utilized as the sealing element. Each joint shall be mortared on the outside before backfilling.

Base sections shall be furnished by the manufacturer with either embedded couplings or bells, or stubbed bells and spigots, of the same type joint as the adjoining pipe. Approved alternatives will include manholes with a compressible rubber ring or with a flexible manhole sleeve or adapter approved by the Engineer. Waterways shall be constructed in the field after the manhole has been installed, and shall conform to the shape and size of connecting pipes as shown on the Standard Details or ordered. Special care shall be taken to form channels with curved shapes that will provide the best hydraulic conditions for smooth flow. Benches shall be entirely of monolithically poured concrete and shall be sloped to drain to the waterways. Concrete used in forming waterways shall be a stiff, rich mix, as specified, and shall be given a steel trowel finish.

Riser sections, conical sections, and the undersides of flat slab top sections, shall be given a protective lining consisting of two (2) shop coats of Epoxide as manufactured by Con-Lux Coatings (Sherwin-Williams), 6 mil/coat. The lining shall be applied in accordance with the manufacturer's recommendations. Base sections, after construction of the waterways and benches, shall be given two (2) field coats of protective lining as specified hereinabove, including waterways and benches. Foundation material under manholes shall conform to that specified in Section 11.1, Earthwork and Backfill.

Manholes frames shall be adjusted to finished grade by building a circular masonry collar above the precast manhole opening. Maximum height of the collar, from the underside of the frame to the top of the precast riser section, shall be 12" except where ordered. The built up masonry may be a precast concrete ring, concrete brick, or sewer brick. Brick shall be sound, hard, well-burned, sewer brick conforming to the requirements of ASTM Designation C-32, Grade MA and shall be laid radically. Mortar shall consist of two parts sand to one part cement, thoroughly mixed in the required proportions before adding water. After laying up the collar and setting the frame in a full bed of mortar, the exterior of the collar shall receive a minimum 3/4" thick mortar coat to provide watertightness.

In areas to receive a pavement overlay, manhole frames shall be raised to finished grade utilizing the methods of the preceding paragraph. Adjustable manhole rings will only be permitted where allowed by the Township Engineer.

Manhole Appurtenances - Appurtenances shall include manhole frames and covers, and manhole rungs. (See Typical Details).

Manhole frames and covers shall be of the best quality close grained gray iron castings conforming to the requirements of ASTM Designation A48, Class No. 30.

Unless otherwise indicated, manhole frames and covers shall be of the circular flared type frame with round flange equal to Catalog No. 1203B as manufactured by Bridgestate (Campbell) Foundry Co.

Seating surfaces shall be machined. All parts shall be immersion coated with an approved asphaltic coating.

Locking devices, equal to Bridgestate (Campbell) No. 1460B, shall be provided on frames and covers in easements or other locations required by the Township Engineer. Locking type covers shall also be provided with a single recessed lifting handle placed near the locking device. Lifting handles shall be provided. A key shall be supplied with each five (5) locking type units.

Slab type manhole frames and covers shall be equal to Catalog No. 1730 as manufactured by Bridgestate (Campbell) Foundry Co.

Watertight manhole covers shall be required in all areas that are located below the 100-year flood level or as ordered by the Engineer. Watertight covers shall conform to the latest edition of ASTM C-923. Watertight cover shall be Bridgestate (Campbell) Foundry Co., Type 1503, Type A.

All covers shall be cast with the identifying letters as approved. Letters shall be 2" high and embossed against a recessed background.

Manhole rungs shall be extruded aluminum alloy of the step drop front design, equal to Aluminum Co. of America or Washington Aluminum Co. Type 6061-T6. Rungs shall be cast in the vertical sides of the manhole sections on 12" centers. Alternatively, rungs may be of steel core and polyprophlene coating, if approved in advance by the Township. Polypropylene steps shall meet the requirements of ASTM C-478 and AASHTO M-199, latest editions. The polypropylene shall conform to ASTM D-4101 and the deformed reinforcing bar shall be grade 60 (1/2" minimum) and meet ASTM A-615.

The Contractor shall modify existing manholes by cutting masonry, setting pipe in place and filling with non-shrink grout. Waterways shall be chipped and roughened, and then finished with cement mortar to provide a smooth hydraulic flow.

Flexible joints shall be placed at the manhole wall, and within 2' of the wall, as shown on the Typical Details.

11.4 PUMPING STATIONS - SERVING MULTI-UNITS

General Information

Sanitary pumping stations serving multi-unit installations shall be required to comply with the requirements and standards outlined in this section.

1. Average Flow Rate - Based on 350 GPD per equivalent single family connection, or 100 gal./cap./day. For housing units of two (2) bedrooms or less, reduced flow rates may be permitted. For non-residential uses, flow data published by the State Department of Environmental Protection may be used.

2. Peak Flow Rate - Use Chart Below:

Average Flow (MGD)	Peak Flow (MGD)	Peak Flow (GPM)
0.01	0.065	45
0.03	0.165	115
0.05	0.254	176
0.07	0.338	235
0.09	0.418	290
0.11	0.500	347
0.13	0.580	403
0.15	0.640	445

3. Number of Pumps - 2 pumps, each sized for peak flow; or 3 pumps, each sized for 50% of peak flow

4. Miscellaneous - Structures must be sized adequately for maintenance, and for future service areas and future equipment needs. These specifications are minimum requirements and additional criteria may be imposed at specific sites.

5. Calculations should be submitted for pump characteristics, and discussions held with the Engineer prior to final design in order to determine methods and materials to be used.

Pumping Station Criteria	Peak Flow of 300 GPM or Less	Peak Flow Over 300 GPM*
1. Location of Pumps	Wet or dry pit	Dry pit only
2. Separated Wetwell/Drywell	Not Required	Required
3. Separated Entrances for Wetwell/Drywell	N/A	Required
4. Removal of Pumps – For Routine Maintenance and Replacement	Floor hatch, chain lift and pipe guides required.	Floor hatch and chain lift required.

*Over 1,000 GPM capacity, special criteria to be provided.

5. Access	Embedded aluminum rungs	Aluminum or concrete stairs
6. Type of Pumps - non-clog sewage pumps, capable of passing 3" sphere		
Minimum pump suction and discharge size	4"	4"
Screens (provide means of cleaning)	Aluminum basket	Cutting or shredding device required. Aluminium bars at 1-1/2" spacing on bypass.
Priming of Pumps	Self-priming	Pos. suction head
Sample Manufacturers (to set acceptable standards)	Flygt	Flygt
7. Motors - Location	Submersible, mounted on pump (explosion-proof)	Above potential flood level; or use submersible dry well motor.
Motor - NEMA type	Type F or G	Type F or G

8. Emergency Power		
a) Generator Location	In pre-fabricated building on the site, or in super-structure	In super-structure.
b) Power Requirements (Provide lockout of lag-pump upon generator operation)	Power to peak flow to operate lead pump, and for needed lighting, heating and ventilation	Power at peak flow to operate lead pump, lead pump, and for needed lighting, heating and ventilation
c) Typical manufacturers - Caterpillar, Onan, Demco		
9. Other Electrical Requirements		
a) Automatic Emergency Transfer Switch	Required	Required
b) Pump Alternator – to alternate lead and lag pumps	Required	Required
c) Electrical Cabinets (housing starters, disconnect switch, circuit breakers, elapsed time meters pump run indicators, etc.)	NEMA 1 in a heated super-structure or NEMA 4 outside	NEMA 1 (super-structure)
d) Lighting	Explosion proof, required throughout and on exterior	Explosion proof, required throughout out and on exterior
e) Power	3-phase (Single phase only in special cases as approved)	3-phase
f) Physical Lockouts on Control Cabinets	Required	Required
10. Pump Intake	On Pump	Separate flared intakes
11. Level Controls - (equal to the product of the Autocon Corp.)	Bubbler System (plus diaphragm units as backup at alarm pts.)	Bubbler System (plus diaphragm units as backup at alarm pts.)

12. Valves		
Shut-off valves	Discharge only	Suction and discharge
Check Valves (weight or spring loaded)	Horizontal only	Horizontal only
13. Wet Wells - Capacity based on pump operation	Max. 6 starts/hr. Max. volume = 10 min. at avg. flow	Max. 6 starts/hr. Max. volume = 10 min. at avg. flow
Slope of Wet Well	Filleted (60 deg.)	2:1
14. Ventilation		
Wet Well	15 changes/hr	15 changes/hr
Dry Well	N/A	6 changes/hr
Superstructure & Dry Well	Elec. unit heaters	Elec. unit heaters
15. Water Supply - for flushing and cleaning (including backflow preventers)	Required on exterior & interior	Required on exterior & interior
16. Gauges – 4" pressure gauges	Discharge only	Suction & discharge
17. Force Mains - Min. velocity 2 fps at peak flow, air relief valves at high points	D.I. Pipe only	D.I. Pipe only
18. Structure		
a) Substructure	Reinf. concrete	Reinf. concrete
b) Superstructure	Optional	Masonry
19. Alarms and Controls Alarms: Loss of power, high water, low water, pump failure, low room temp., lag pump operation, internal pump seal, overload trip. Controls: H-O-A, run lights, selector switches, etc.	On site, audio-visual, and trans-mitted to central point	On site, audio-visual, and transmitted to central point

20. Spare Parts	Replacement pump unit (complete), compressor, spare starters (2), alternator, other parts as recommended by manufacturer	1 set of rings, wear plate, shaft sleeve, shims., 1 impeller assembly, 2 sets of bearings, grease retainers, alternator, 30 packing sets, compressor, spare starters (2), other parts as recommended by manufacturer.
21. Service Start-up to include 2-day instruction program for station operator. Annual service contract required with approved pump service organization.	At least weekly inspection by maintenance man Plus semi-annual inspections by approved pump service organization. Operating manuals.	At least twice a week inspections by maintenance man plus semi-annual inspections by approved pump service organization. Operating manuals.

Pump Test Requirements After Installation

Pressure Check

- Calculate required pressure
- Check actual discharge pressure for each pump
- At least one pressure gauge with stopcock should be furnished with each installation with the abitlity to mount gauges at various locations.
- Actual pressure should be within 5% of the required pressure.

Flow Check

- Refer to specifications, report, etc. for required flow
- Measure flow into station with pumps off
- Measure actual pump flow (5% of required flow)
- Calculate actual pump horsepower (5% of rated h.p.)
- Measure pump flow with both pumps on

Electrical

- Check amperage against nameplate data (pump on)
- Check voltage against spec requirements (use polyphase watt meter)
- Test emergency generator and transfer switch
- Test alarms generator and transfer switch
- Check proper sequencing and automatic alternation of pumping units
- Check lights, heaters, etc.

General

- Check that equipment is installed as required
- Check restoration
- Check general workmanship
- Check pump rotation
- Observe check valves during on/off operations
- Check float levels in wet well
- Compute motor horsepower

$$HP = \frac{QH}{3960e}$$

Where: HP = motor horsepower (1 HP = 0.748KW)
Q = peak flow (GPM)
H = total dynamic head (ft.)
e = overall efficiency (per cent)
= e motor X e pump
e motor - 90% e pump from curves

11.5 PUMPING STATIONS - SERVING SINGLE-UNITS

General Information - Sanitary pumping stations serving only single-units, unless otherwise approved by the Township Engineer, shall be factory-built grinder pump stations, each consisting of a grinder pump core and all necessary parts and equipment. The pump shall be installed in a factory-built fiberglass reinforced polyester tank with integral watertight accessway as described in the following specifications. Pump stations shall be Model GP 210, Series 6, as manufactured by Environment One Corporation, Schenectady, New York, or approved equal.

Operating Conditions - The pump(s) shall be a semi-positive displacement type and be capable of delivering 11 GPM against a rated total dynamic head of 92 feet (40 PSIG). At zero head, the output shall be 15 GPM minimum. The pump(s) shall be capable of intermittent (3 minutes minimum) operation at any heads up to 125% of normal rated dynamic head with a minimum flow of 8 GPM. The electrical rating of each pump shall be 8 amperes, 1 phase, 240 volt, 60 Hertz.

Tank - The tank shall be custom molded or fiberglass reinforced polyester resin and shall have a nominal diameter of 24", a nominal wall thickness of 3/16" and a net capacity of 60 gallons. The tank shall be furnished with one PVC closet flange to accept 4" nominal diameter PVC drain-waste vent (DWV) pipe using the solvent-weld system. The socket fittings shall be securely fastened to the tank and shall be leak tight.

Integral Accessway - The accessway shall be an integral extension of the tank. It shall have an access opening at the top to accept a lockable cover. The accessway shall include the following factory supplied items: Grinder pumps discharge extension with a surface operable positive sealing quick disconnect coupling and a full ported shut-off valve sealing quick disconnect coupling and a full ported shut-off valve terminating in a watertight bulkhead fitting with external 1-1/4" male pipe thread. Internal wiring shall terminate in a sealed junction box, integral with the accessway and suitable for outdoor use.

Core Unit - The grinder pump shall have cartridge type easily removable core assemblies containing pump, motor, grinder, controls, check valve, anti-siphon valve and wiring.

The watertight integrity of the core unit, including wiring and access cover, shall be established by 100% factory test at a minimum of 5 PSIG.

Pump - The pump shall be a custom designed, integral, vertical rotor, motor driven, solids handling pump of the progressing cavity type with mechanical seal. The rotor shall be through-hardened, highly polished, precipitation hardened stainless steel. The rotor shall be of a specifically compounded ethylene propylene synthetic elastomer. The material shall be suitable for domestic wastewater service. Its physical properties shall include high tear and abrasion resistance, grease resistance, water and detergent resistance, temperature, stability, good aging properties, and outstanding wear resistance.

Grinder - The grinder shall be positioned immediately below the pumping elements and shall be direct-driven by a single, one-piece motor shaft. The grinder impeller assembly shall be securely fastened to the pump motor shaft. The grinder will be of the rotating type with a stationary hardened and ground chrome steel shredding ring spaced in accurate close annular alignment to the driven impeller assembly, which shall carry two hardened type 400 series stainless steel cutter bars. This assembly shall operate without objection-able noise of vibration over the entire range of recommended operating pressures.

The grinder shall be constructed so as to eliminate clogging and jamming under all normal operating conditions including starting. Sufficient vortex action shall be created to scour tank free of deposits or sludge banks which would impair the operation of the pump. These requirements shall be accomplished by the following items in conjunction with the grinder tank pump:

(1) The grinder shall be positioned in such a way that solids are fed in an upflow direction.

(2) The inlet shroud opening shall have a diameter no less than 5 inches.

(3) At maximum flow, the average inlet velocity should not exceed 0.2 feet per second.

(4) The cutter bars shall extend above the impeller disc 0.200 to 0.250 inches.

(5) The impeller disc shall rotate at a nominal speed of 1,725 RPM.

The grinder shall be capable of reducing all components in normal domestic sewage, including a reasonable amount of "foreign objects", such as paper, wood, plastic, glass, rubber and the like, to finely-divided particles which will pass freely through the passages of the pump and the 1-1/4" diameter discharge pipe.

Electric Motor - The motor shall be a 1 HP, 1,725 RPM, capacitor start, ball bearing, squirrel cage induction type with a low starting current not to exceed 36 amperes and high starting torque of 8.4 foot pounds.

Inherent protection against running overloads or locked rotor conditions for the pump motor shall be provided by the use of an automatic-reset, integral thermal overload protector incorporated into the motor. This motor protector combination shall have been specifically investigation and listed by Underwriters Laboratories, Inc., for the application.

Mechanical Seal - The core shall be provided with a mechanical shaft seal to preclude leakage between the motor and pump. The seal shall have a stationary ceramic seat and carbon rotating sealing surface with faced precision lapped and held in position by a stainless steel spring.

Check Valve - The pump shall be equipped with a factory-installed, gravity-operated, flapper-type integral check valve built into the discharge pipe. This valve will provide a full-ported passageway when open, and shall introduce a friction loss of less than 6 inches of water at a maximum rated flow. A non-metallic hinge shall be an integral part of the flapper assembly providing maximum degrees of freedom for assured seating even at a very low back pressure. The valve body shall be made of PVC.

Anti-Siphon Valve - The pump shall be constructed with a positively-primed flooded suction configuration. As added assurance that the pump cannot lose prime even under negative pressure conditions in the discharge piping system, the pump shall be equipped with an integral anti-siphoning, air relief valve in the discharge piping just below the main check valve. This valve will automatically close when the pump is running and open when the pump is off.

Controls - Necessary controls shall be integral with the grinder pump and shall be located in the top housing of the core unit inside a waterproof access cover. The cover will be attached with stainless steel, tamper-proof fasteners.

Non-fouling wastewater level detection for controlling pump operation shall be accomplished by monitoring the pressure changes in an integral, air-bell level sensor connected through air-tight tubing to a pressure switch. The level detection device shall have no moving parts in direct contact with the wastewater.

Overflow sensing will be accomplished by a separate air-bell sensor of the same type.

Each level control shall have its own built-in fail safe design which will prevent the entrance of moisture into the controls in case of switch diaphragm failure.

To assure reliable operation of pressure sensitive switches, each core shall be equipped with a quick disconnect breather assembly, complete with check valve to prevent accidental entry of water into motor compartment in the event of accessway flooding.

An overflow indicator lamp assembly requiring 120 volts and suitable for remote installation in a standard device box will be furnished. This indicator will be mounted on a decorative wall plate 2-3/4" X 4-1/2" and marked; "Grinder Pump Monitor".

The grinder pump shall be furnished with two 10' lengths of type UF cable, pre-wired and connected with weatherproof materials. The power supply cable shall be 12-2 W.GRD., designed for 1 phase, 240 volt, 60 Hertz power supply and meet UL requirements. The signal cable to the overflow indicator lamp shall be 14-2 W. GRD., designed for 1 phase, 120 volts, 60 Hertz power supply and meet UL requirements.

Wiring - It shall be the responsibility of the electrical contractor to furnish and install, in compliance with appropriate national and local codes, service entrance equipment and/or branch circuit protection and all wiring to the grinder pump leads.

Corrosion Protection - All materials exposed to wastewater shall be inherent corrosion protection; i.e., cast iron, fiberglass, stainless steel, PVC. Any exterior steel surfaces are to be suitably protected against corrosion.

Serviceability - The grinder pump core unit shall have two lifting eyes provided in the top housing which can be used to facilitate easy removal of the core unit from the tank when necessary.

Safety - The grinder pump shall be free from electrical and fire hazards as required in a residential environment. As evidence of compliance with this requirement, the completely assembled and wired grinder pump in its tank shall be listed by Underwriters Laboratories, Inc.

The grinder pump shall meet accepted standards for plumbing equipment for use in or near residences, shall be free from noise, odor or health hazards, and shall have been tested by an independent laboratory to certify its capability to perform as specified in either individual or low pressure sewer system applications. As evidence of compliance with this requirement, the grinder pump shall bear the National Sanitation Foundation seal.

Manufacturer - The equipment specified shall be the product of a company experienced in the design and manufacture of grinder pumps for specific use in low pressure sewage systems. The company shall submit detailed installation and user instructions for its product; submit evidence of an established service support program including complete parts and service manuals; and be responsible for maintaining a continuing inventory of grinder pump replacement parts.

Limited Warranty - The manufacturer shall offer a limited warranty guarantying its produce to be free from defects in material and factory workmanship for a period of two years from date of installation or twenty-seven (27) months from date of shipment, whichever occurs first, provided the product is properly installed, serviced, and operated under normal conditions and according to the manufacturer's instructions. Repair or parts replacement required as a result of such defect shall be made free of charge during this period upon return of the defective parts or equipment to the manufacturer or its nearest authorized service center.

Piping - Force main piping shall be Schedule 80 PVC pipe and shall conform to the requirements of ASTM D1785-76.

Schedule 80 PVC fittings shall conform to ASTM D2466-78. Joints are to be solvent welded. Solvent cement shall conform to ASTM D2565-76 "Solvent Cements for PVC Plastic Pipe and Fittings."

Methods of Construction - The prefabricated pump station shall be installed on a one foot thick bedding of 3/4" broken stone. The access cover shall be set minimum 6" above grade.

Force main shall be laid in a straight line on a firm foundation of 6 inches of Class "C" embedment material. It shall be laid at a uniform depth approximately 5' below grade.

The Control Panel shall be installed in accordance with the manufacturer's electrical specifications and drawings, and all applicable code requirements in an accessible and suitable location approved by the agency or department having jurisdiction.

11.6 OTHER FACILITIES

Design criteria and specifications for equipment and materials not specifically included in these Rules and Regulations shall be as required by the Township Engineer.

APPENDIX "A"

APPLICATION FORMS

APPLICATION FORMS

Form A	Application for Conceptual Review of Sewerage Facilities
Form B	Application for Review of Pumping Station Facilities
Form C	Application for Authorization to Construct Sewerage Facilities
Form D	Application for Performance Guarantee Reduction/ Performance Bond Release for Sewerage Facilities
Form E-1	Application for Individual Connection of Residential Sanitary Sewer into the Existing Township of Allamuchy System
Form E-2	Application for Commercial Sewer Service
Form E-3	Application for Industrial Sewer Connection and Agreement for Industrial Wastes
Form E-4	Application for Change of Use of Existing Sewerage Facilities
Form E-5	Application for Disconnection of Existing Sewerage Facilities
Form F	Application for Floor Drain Approval
Form G	Application for Swimming Pool Drain Approval
PERMIT	Permit to Connect

FORM A

APPLICATION FOR CONCEPTUAL REVIEW

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **CONCEPTUAL REVIEW OF SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY**. This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the "Township of Allamuchy." All questions must be filled in; incomplete forms will not be accepted.

Application is hereby made for conceptual review of proposed sewerage facilities for a ruling on the system layout, characteristics, capacity and off-site requirements.

Approval of this application, if granted, is valid for one year from date of approval by the Township (see Section 8.3).

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. If a subdivision, date classified as major subdivision by Planning Board. _____

5. Development Name _____

FORM A
APPLICATION FOR CONCEPTUAL REVIEW
(Continued)

6. Key Location or Street Location of Project _____

   Block No. _____ Lot No(s). _____

7. Number of proposed lots to be sewered _____

   Number of units as per applicable Township Rules and Regulations _____

8. Area of entire tract _____ and portion being sewered _____.

9. Development Plans:

   a. Construction of structures for sale (yes) _____ (no) _____.

   lease (yes) _____ (no) _____.

   b. Other _____

10. New Jersey Licensed Engineer designing sewerage plan:

    Firm _____

    Name of Engineer _____ License No. _____

    Address _____

    _____ Phone (____) _____

11. Attorney: Firm _____

    Name of Attorney _____

    Address _____

    _____ Phone (____) _____

12. Does applicant or owner agree to convey by deed to the Township of Allamuchy easements for all sanitary sewer locations and all rights to sewer system? _____

FORM A
APPLICATION FOR CONCEPTUAL REVIEW
(Continued)

13. a) Describe proposal for sewage disposal:

_____

_____

b) Describe quality and quantity of waste:

_____

14. List plans and other material accompanying application, and number of each:*

	ITEM	NUMBER
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

15. Applicant and owner have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

IN ADDITION to the payment of applicable filing fees, escrow deposits and the posting of bonds, a connection fee for each applicable unit is due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

_____	_____
(Signature of Applicant)	(Signature of Owner)**
_____	_____
(Name of Applicant, typed/printed)	(Name of Owner, typed/printed)
_____	_____
(Applicant's Position or Title)	(Owner's Position or Title)

* Attach 2 prints of your plans.
** Owner's Signature is mandatory (see Section 8.2)

FORM B

APPLICATION FOR REVIEW OF PUMPING STATION FACILITIES

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **REVIEW OF PUMPING STATION FACILITIES IN TOWNSHIP OF ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the Township of Allamuchy. (NJDEP Construction Permit does not constitute construction authorization of this agency. Applicant must file this form for Township authorization to construct and is bound by all requirements incorporated in the Township's approval). All questions must be filled in; incomplete forms will not be accepted.

The applicant shall be responsible for reimbursement to the Township for the costs incurred by it in the Design Review of this application and inspection during construction. Applicant must deposit with the Township funds to be held in escrow for the payment of all fees; amount to be set forth by the Township.

Approval of this application, if granted, is valid for one year from date of approval by the Township (see Section 8.4).

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. If a subdivision, most recent action by Planning Board _____

   _____

FORM B
APPLICATION FOR REVIEW OF PUMPING STATION FACILITIES
(Continued)

5. Key Location or Street Location of Pumping Station _____

_____

Block No. _____ Lot No(s). _____

6. Development Name _____

Total number of subsection of phases _____

7. Description, type and total number of proposed units to be awarded as per applicable Township Rules and Regulations:

Description _____

Type _____

Total No. of Units _____ Unit per each phase _____

8. Applicant's approved estimated total construction cost of Pumping Station $_____

9. New Jersey Licensed Engineer designing pumping station plan:

Firm _____

Name of Engineer _____ License No. _____

Address _____

_____ Phone ( ) _____

10. Attorney: Firm _____

Name of Attorney _____

Address _____

_____ Phone ( ) _____

FORM B
APPLICATION FOR REVIEW OF PUMPING STATION FACILITIES
(Continued)

11. List plans and other material accompanying application, and number of each item (see Township Rules and Regulations, Section No. 8.4).

	ITEM	NUMBER
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____

12. Estimated calendar days required to finish project once authorization to construct is given _____ _____
(est. starting date) (est. completion date)

13. Phasing Schedule

Phase or Section	Expected Connection Date
_____	_____
_____	_____
_____	_____

14. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

IN ADDITION to the payment of applicable filing fees, escrow deposits and the posting of bonds, a connection fee for each applicable unit is due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

Applicant or owners agree to convey by deed to the Township of Allamuchy easements for all sanitary sewer locations and all rights to sewer system.

(Signature of Applicant)	(Signature of Owner)**
(Name of Applicant, typed/printed)	(Name of Owner, typed/printed)
(Applicant's Position or Title)	(Owner's Position or Title)

** Owner's Signature is mandatory (see Section 8.2)

FORM C

APPLICATION FOR AUTHORIZATION TO CONSTRUCT SEWERAGE FACILITIES

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **CONSTRUCTION OF SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the Township of Allamuchy. (NJDEP Construction Permit does not constitute construction authorization of this agency. Applicant must file this form for Township authorization to construct and is bound by all requirements incorporated in the Township's approval). All questions must be filled in; incomplete forms will not be accepted.

The applicant shall be responsible for reimbursement to the Township for the costs incurred by it in the Design Review of the application and inspection during construction. Applicant must deposit with the Township funds to be held in escrow for the payment of all fees; amount to be set forth by the Township.

Approval of this application, if granted, is valid for one year from date of approval by the Township (see Section 8.5).

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. If a subdivision, most recent action by Planning Board _____

   _____

FORM C
APPLICATION FOR AUTHORIZATION TO CONSTRUCT SEWERAGE FACILITIES
(Continued)

5. Key Location or Street Location of Project _____

   Block No. _____ Lot No. _____

6. Development Name _____

   Total Number of sub-sections or phases _____

7. Description, type and total number of proposed units to be sewered as per applicable Township Rules and Regulations:

   Description _____

   Type _____

   Total No. of Units _____ Units per each phase _____

8. Applicant's approved estimated total construction cost of project

   $_____

9. New Jersey Licensed Engineer designing sewerage plan:

   Firm _____

   Name of Engineer _____ Lic. No. _____

   Address _____

   _____ Phone (____) _____

10. Attorney: Firm _____

    Name of Attorney _____

    Address _____

    _____ Phone (____) _____

FORM C
APPLICATION FOR AUTHORIZATION TO CONSTRUCT SEWERAGE FACILITIES
(Continued)

11. List plans and other material accompanying application, and number of each item (see Township Rules and Regulations, Section No. 8.5).

ITEM	NUMBER
a. _____	_____
b. _____	_____
c. _____	_____
d. _____	_____

12. Estimated calendar days required to finish project once authorization to construct is given _____ _____
(est. starting date) (est. completion date)

Phase or Section	Expected Connection Date

13. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

IN ADDITION to the payment of applicable filing fees, escrow deposits and the posting of bonds, a connection fee for each applicable unit is due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

Applicant or owners agree to convey by deed to the Township of Allamuchy easements for all sanitary sewer locations and all rights to sewer system.

(Signature of Applicant)	(Signature of Owner)**
(Name of Applicant, typed/printed)	(Name of Owner, typed/printed)
(Applicant's Position or Title)	(Owner's Position or Title)

** Owner's Signature is mandatory (see Section 8.2)

FORM D

PERFORMANCE GUARANTEE REDUCTION/RELEASE

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **PERFORMANCE GUARANTEE REDUCTION/RELEASE FOR SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the Township of Allamuchy. The applicant shall be responsible for reimbursement to the Township for the costs incurred by it in the review of the application and inspection of completed construction. Applicant must deposit with the Township funds to be held in escrow for the payment of all fees; amount to be set forth by the Township. All questions must be filled in; incomplete forms will not be accepted.

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. Development Name _____

   Sub-section or Phase covered by this application _____

FORM D
PERFORMANCE GUARANTEE REDUCTION/RELEASE
(Continued)

5. Street addresses, block and lots in section or phase covered by this application:

_____

_____

Block No. _____ Lot Nos. _____

Block No. _____ Lot Nos. _____

Block No. _____ Lot Nos. _____

6. Number of Units as per applicable Township Rules and Regulations:

Total for this development _____

Number covered by this application _____

Total Number of sub-sections or phases _____

7. Does the as-built plan follow exactly the construction plan in regard to details and area covered? _____ If not, indicate significant changes _____

_____

8. Performance Bond posted with Township: Amount $_____

Number _____ Date _____ Surety _____

9. List Plans and other material accompanying application, and number of each item (see Township Rules and Regulations, Section 4.6).

ITEM	NUMBER/DATE
a. Conveyance documents of easements (if required)	_____
b. As-Built Plans	_____
c. Certified copy of Final Map recorded with County Clerk	_____
d. Proof of payment of fees	_____
e. NJS Permit to Operate (for applicable units)	_____
f. Releases from parties having jurisdiction	_____
g. Signed Township Voucher for release of cash bond	_____
h. _____	_____

10. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

FORM D
PERFORMANCE GUARANTEE REDUCTION/RELEASE
(Continued)

IN ADDITION to the payment of applicable filing fees, escrow deposits and the posting of bonds, a connection fee for each applicable unit is due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

_____	_____
(Signature of Applicant)	(Signature of Owner)**
_____	_____
(Name of Applicant, typed/printed)	(Name of Owner, typed/printed)
_____	_____
(Applicant's Position or Title)	(Owner's Position or Title)

Maintenance Bond (to be completed by Township)

a) Release of Performance Guarantee approved by Township on _____.

b) Amount of Maintenance Bond to be furnished $_____.

** Owner's Signature is mandatory (see Section 8.2)

FORM E-1

APPLICATION FOR PERMIT FOR CONNECTION OF SANITARY SEWER INTO EXISTING TOWNSHIP OF ALLAMUCHY SEWERAGE SYSTEM

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

Date _____

Application for **PERMIT FOR CONNECTION OF SANITARY SEWER INTO EXISTING TOWNSHIP OF ALLAMUCHY SEWERAGE SYSTEM, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed with the Township, accompanied by plan showing the proposed plumbing layout and/or connection. Please answer all questions.

FEES: Application: $_____

Inspection: $_____

Connection Fees: $_____/Units _____

_____ Extended Payment Plan

$ _____ Paid

TOWNSHIP OF ALLAMUCHY

Approved by: _____

Applicant (check one): _____ Owner _____ Developer

Name _____

Address _____

_____ Phone (____) _____

SERVICE LOCATION: Street Address	Block No.	Lot No.

FORM E-1
APPLICATION FOR PERMIT FOR CONNECTION OF
SANITARY SEWER INTO EXISTING TOWNSHIP OF ALLAMUCHY SEWERAGE SYSTEM
(Continued)

Registered Plumber: Phone Emerg. Phone

_____ _____ _____

TYPE OF STRUCTURE: _____ House _____ Commercial _____ Industry

TECHNICAL REQUIREMENTS:

Under no circumstance shall any fixture be installed in a building lower than the front curb elevation or street centerline elevation, whichever is higher, unless special precautions are incorporated into the fixture installation to prevent surcharging of fixture from the sanitary sewer main from high flow or blockage. In any event the Township will not be responsible for any back-ups.

Lateral from the house to the main shall be approved material. The connection to the main shall be through an approved wye or saddle. Township Representative shall be present at time of tapping into the Township main.

Applicant shall be responsible for all permits, including Road Opening Permit. Applicant shall be responsible for surface joining, during and after construction, and for all restoration.

All construction shall be in compliance with the Township Rules and Regulations.

Any details needed may be obtained from the Township.

_____ _____
Date Signature of Applicant

FORM E-2

APPLICATION FOR COMMERCIAL SEWER SERVICE

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

Date _____

Application for **CONNECTION OF COMMERCIAL SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed with the Township, accompanied by plan showing the proposed plumbing layout and/or connection. Please answer all questions.

1. Applicant's Name _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. Key Location or Street Location of Project _____

   _____

   Block No. _____ Lot No. _____

5. Area of entire tract _____ and portion being sewered _____.

FORM E-2
APPLICATION FOR COMMERCIAL SEWER SERVICE
(Continued)

6. New Jersey Licensed Engineer and/or Licensed Plumber designing sewerage plan:

   Firm _____

   Name of Contact _____ Lic. No. _____

   Address _____

   _____ Phone (____) _____

7. Attorney (if applicable): Firm _____

   Name of Attorney _____

   Address _____

   _____ Phone (____) _____

8. Does applicant or owner agree to convey by deed to the Township of Allamuchy easements for all sanitary sewer locations and all rights to sewer system? _____

9. Describe: a) proposed use _____

   _____

   b) proposal for sewage disposal _____

   _____

   c) quality and quantity of waste _____

   _____

10. Projected Date of Service _____

11. List plans and other material accompanying application, and number of each:

	ITEM	NUMBER
a.		
b.		
c.		
d.		

FORM E-2
APPLICATION FOR COMMERCIAL SEWER SERVICE
(Continued)

12. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

The payment of a connection fee for each applicable new unit may be due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

(Signature of Owner)**	(Signature of Applicant)
(Name of Owner, typed/printed)	(Name of Applicant, typed/printed)
(Owner's Position or Title)	(Applicant's Position or Title)

* Attach print of your plans.
** Owner's Signature is mandatory (see Section 8.2)

FORM E-3

APPLICATION FOR INDUSTRIAL SEWER CONNECTION AND AGREEMENT FOR INDUSTRIAL WASTES

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **INDUSTRIAL SEWER CONNECTION IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY**. This application must be filed in duplicate with the Township thirty days in advance of a regular meeting of the Township, accompanied by fees, deposits and submissions required by Township regulations.

All questions must be filled in; incomplete forms will not be accepted.

IN ADDITION to the payment of applicable filing fees, and review and inspection fees, a connection fee for each applicable unit is due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

The undersigned being the (owner) (leasee) (tenant) (other - specify _____) of the property located at _____ _____ Block No. _____ Lot No(s). _____ does hereby request a permit to (install) (use) an industrial sewer connection serving the _____ _____, which company is engaged in _____ _____ at said location.

FORM E-3
APPLICATION FOR INDUSTRIAL SEWER CONNECTION AND AGREEMENT FOR INDUSTRIAL WASTES
(Continued)

THE FOLLOWING MATERIAL MUST ACCOMPANY THIS APPLICATION:

1. A plan of the property showing accurately all sewers and drains now proposed, including details.

2. Plans and specifications covering any work proposed to be performed under this application.

3. A complete schedule of all process waters and industrial wastes produced or expected to be produced at said property, including a description of the character of each waste, the daily volume and maximum rates of discharge, and representative analysis.

4. To cooperate at all times with the Township and its representatives in their inspecting, sampling, and study of the industrial wastes, and any facilities provided for pretreatment.

5. To notify the Township immediately in the event of any accident, negligence, or other occurrence discharge to the public sewers of any wastes or process waters not covered by this application.

6. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

Date: _____ Signed _____
(Applicant)

_____ _____
(Signature of Owner)** (Type or print Applicant's name)

_____ _____
(Name of Owner, typed/printed) (Applicant's Position or Title)

_____ _____
(Owner's Position or Title) (Address)

_____

** Owner's Signature is mandatory (see Section 8.2)

FORM E-4

APPLICATION FOR CHANGE OF USE OF EXISTING SEWERAGE FACILITIES

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

Date _____

Application for **CHANGE OF USE OF SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed with the Township, accompanied by plan showing the proposed plumbing layout and/or connection. Please answer all questions.

Application is hereby made for a change of use of existing sewerage facilities for a ruling on the system layout, characteristics, capacity, and requirements.

1. Applicant's Name _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. Key Location or Street Location of Project _____

   _____

   Block No. _____ Lot No. _____

FORM E-4
APPLICATION FOR CHANGE OF USE OF EXISTING SEWERAGE FACILITIES
(Continued)

5. Area of entire tract _____ and portion being sewered _____.

6. New Jersey Licensed Engineer or Plumber designing sewerage plan:

   Firm _____

   Name of Contact _____ Lic. No. _____

   Address _____

   _____ Phone (____) _____

7. Attorney (if applicable): Firm _____

   Name of Attorney _____

   Address _____

   _____ Phone (____) _____

8. Does applicant or owner agree to convey by deed to the Township of Allamuchy easements for all sanitary sewer locations and all rights to sewer system? _____

9. Describe: a) prior use _____

   No. of employees _____ No. of fixtures _____

   Business Hours _____

   b) new use _____

   No. of employees _____ No. of fixtures _____

   Business Hours _____

   c) new proposal for sewage disposal _____

   _____

   d) quality and quantity of waste _____

   _____

10. Effective Date of Change of Use _____

FORM E-4
APPLICATION FOR CHANGE OF USE OF EXISTING SEWERAGE FACILITIES
(Continued)

11. List plans and other material accompanying application, and number of each:

ITEM	NUMBER
a. _____	_____
b. _____	_____
c. _____	_____
d. _____	_____

12. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

The payment of a connection fee for each applicable new unit may be due and payable to the Township in accordance with Section 3B.4 of the Township Rules and Regulations.

_____	_____
(Signature of Owner)**	(Signature of Applicant)
_____	_____
(Name of Owner, typed/printed)	(Name of Applicant, typed/printed)
_____	_____
(Owner's Position or Title)	(Applicant's Position or Title)

* Attach print of your plans.
** Owner's Signature is mandatory (see Section 8.2)

FORM E-5

APPLICATION FOR DISCONNECTION OF SEWERAGE FACILITIES

FILL IN AS EACH ITEM MAY APPLY - USE N/A IF NON-APPLICABLE

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

Date _____

Application for **DISCONNECTION OF EXISTING SEWERAGE FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed with the Township, accompanied by plan showing the proposed plumbing layout and/or connection. Please answer all questions.

1. Applicant's Name _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Key Location or Street Location of Project _____

   _____

   Block No. _____ Lot No. _____

4. Number of proposed lots to be disconnected _____

   Number of laterals to be disconnected _____

FORM E-5
APPLICATION FOR DISCONNECTION OF SEWERAGE FACILITIES
(Continued)

5. New Jersey Licensed Plumber performing the work:

Firm _____

Name of Plumber _____ Lic. No. _____

Address _____

_____ Phone (____) _____

6. a) Describe proposal for disconnection: (Reference Section 4.8 of Township Rules and Regulations)

_____

_____

7. Owner and applicant have read the Township Rules and Regulations and fully understand all necessary requirements. Yes _____

The Township must be notified 24 hours in advance of the proposed disconnection, and an Township Inspector must be in attendance.

_____	_____
(Signature of Owner)**	(Signature of Applicant)
_____	_____
(Name of Owner, typed/printed)	(Name of Applicant, typed/printed)
_____	_____
(Owner's Position or Title)	(Applicant's Position or Title)

* Attach two prints of your plans.
** Owner's Signature is mandatory (see Section 8.2)

FORM F

FLOOR DRAIN APPROVAL

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **REVIEW OF FLOOR DRAIN FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY**. This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the Township of Allamuchy. All questions must be filled in; incomplete forms will not be accepted.

Application is hereby made for review of proposed floor drain facilities for a ruling on compliance and acceptability.

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. If an industrial facility, date of approval by Planning Board _____

   _____

5. Trade Name _____

FORM F
FLOOR DRAIN APPROVAL
(Continued)

6. Key Location or Street Location of Facility _____

   Block No. _____ Lot No. _____

7. Description of industrial or commercial function and products _____

   _____

8. On-site petroleum products: _____

   _____

9. Average daily water consumption _____ gallons.

   Source: _____

   Names (generic) of all chemicals used in process: _____

   _____

10. New Jersey Licensed Engineer providing technical data:

    Firm _____

    Name of Engineer _____ Lic. No. _____

    Address _____

    _____ Phone (____) _____

11. Attorney: Firm _____

    Name of Attorney _____

    Address _____

    _____ Phone (____) _____

12. Elevation of floor drain _____

    Elevation of Street _____

13. Describe any process chemicals stored on premises, including tanks sizes, dilution, pH: _____

    _____

    Provide standard material safety data sheet for each chemical used or stored at site.

FORM F
FLOOR DRAIN APPROVAL
(Continued)

14. List plans and other material accompanying application, and number of each:*

	ITEM	NUMBER
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

15. Owner and applicant have read the Township Rules and Regulations (attached) and fully understand all necessary requirements. Yes _____

IN ADDITION to the payment of applicable filing fees, escrow deposits and inspection fees, floor drain charges are due and payable to the Township in accordance with Section 3B of the Township Rules and Regulations. THESE FEES ARE PAYABLE PRIOR TO THE ISSUANCE OF A PERMIT.

* Attach 2 prints of your plans.

_____
Applicant
(should be the same as Item 1)

_____
(Signature of Owner)** (Signature of Applicant or Agent)

_____
(Name of Owner, typed/printed) (Name of Applicant/Agent, typed/printed)

_____
(Owner's Position or Title) (Applicant/Agent Position or Title)

** Owner's Signature is mandatory (see Section 8.2)

FORM F
FLOOR DRAIN APPROVAL
(Continued)

==========

SPACE BELOW FOR OFFICIAL USE ONLY

==========

APPROVED
TOWNSHIP OF ALLAMUCHY

_____ By _____
(Date of Approval)

_____ _____
(Expiration Date) (Print Name and Address)

FORM G
SWIMMING POOL DRAIN APPROVAL
(Continued)

6. Key Location or Street Location of Facility _____

   Block No. _____ Lot No. _____

7. Description of facility type (residential, commercial or institutional) _____

   _____

8. Volume of Pool _____ gallons. Source of Water _____

9. No. of persons using pool: Average _____ Peak _____

10. On-site treatment facilities (filters, disinfection equipment, pumps, etc.) _____

    _____

11. Names (generic) of all chemical used for disinfection or cleaning_____

    _____

12. Exact location and size of proposed connection _____

    Elevation of drain at pool _____

    Elevation of sewer at street _____

13. New Jersey Licensed Engineer providing technical data:

    Firm _____

    Name of Engineer _____ Lic. No. _____

    Address _____

    _____ Phone (____) _____

14. Attorney: Firm _____

    Name of Attorney _____

    Address _____

    _____ Phone (____) _____

FORM G

SWIMMING POOL DRAIN APPROVAL

TOWNSHIP OF ALLAMUCHY
MUNICIPAL BUILDING
ALPHANO ROAD, BOX A
ALLAMUCHY, NJ 07820

TOWNSHIP PROJECT NO. _____ **DATE:** _____

Application for **REVIEW OF SWIMMING POOL DRAIN FACILITIES IN ALLAMUCHY, COUNTY OF WARREN, STATE OF NEW JERSEY.** This application must be filed in duplicate with the Township, accompanied by all applicable fees in cash or certified check made payable to the Township of Allamuchy. All questions must be filled in; incomplete forms will not be accepted.

Application is hereby made for review of proposed swimming pool facilities for a ruling on compliance and acceptability.

1. Applicant's Name _____ Tax ID No. _____

   Address _____

   _____ Phone (____) _____

   Contact Person Name _____ Phone (____) _____

2. Name of Present Property Owner _____

   Address _____

   _____ Phone (____) _____

3. Interest of applicant if other than owner of property _____

   _____

4. If a commercial or institutional facility, date of Planning Board approval _____

5. Trade Name or Facility Name _____

FORM G
SWIMMING POOL DRAIN APPROVAL
(Continued)

15. Name of Contractor installing drain: _____

_____

16. List of plans and other material accompanying application, and number of each:*

	ITEM	NUMBER
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

17. Owner and applicant have read the Township Rules and Regulations (attached) and fully understand all necessary requirements. Yes _____

IN ADDITION to the payment of applicable filing fees, escrow deposits and inspection fees, swimming pool drain charges are due an payable to the Township in accordance with Section 3B of the Township Rules and Regulations. THESE FEES ARE PAYABLE PRIOR TO THE ISSUANCE OF A PERMIT.

* Attach 2 prints of your plans.

_____
Applicant
(should be the same as Item 1)

_____
(Signature of Owner)**

_____
(Signature of Applicant or Agent)

_____
(Name of Owner, typed/printed)

_____
(Name of Applicant/Agent, typed/printed)

_____
(Owner's Position or Title)

_____
(Applicant/Agent Position or Title)

** Owner's Signature is mandatory (see Section 8.2)

FORM G
SWIMMING POOL DRAIN APPROVAL
(Continued)

==========

SPACE BELOW FOR OFFICIAL USE ONLY

==========

APPROVED
TOWNSHIP OF ALLAMUCHY

_____ By _____
(Date of Approval)

_____ _____
(Expiration Date) (Print Name and Address)

TOWNSHIP OF ALLAMUCHY

INDUSTRIAL WASTE DISCHARGE AGREEMENT

THIS AGREEMENT made this _____ day of _____ 19 ____; between the Township of Allamuchy, with offices at Municipal Building, Alphano Road, Box A, Allamuchy, New Jersey 07820, (hereinafter referred to as the "Township"), and _____ with offices at _____ (hereinafter referred to as "Customer");

W I T N E S S E T H;

WHEREAS, the customer has applied to the Township for permission to discharge industrial wastes into the sewer system owned and operated by the Township; and

WHEREAS, the Township has agreed to accept said wastes subject to the provisions of this Agreement;

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PREMISES AND COVENANTS CONTAINED HEREIN, it is agreed by the parties hereto as follows:

1. Rules and Regulations. The customer represents that he has reviewed the Rules and Regulations of the Township and, particularly Section 7C thereof, relating to industrial and commercial service, and Section 3B thereof relating to penalties for violations of the Rules and Regulations.

2. The customer has paid to the Township or is paying simultaneously with the execution of this Agreement a connection fee in the amount of $_____.

3. Waste Characteristics. Customer agrees to install an industrial waste flow meter and sampler in accordance with the Township Rules and Regulations. The wastewater discharged by the customer into the Township's system shall comply in all respects with applicable Sections of the Rules and Regulations and customer agrees, if necessary, to pretreat its wastewater discharge to bring it into compliance with the standards set forth in those Sections. The customer is hereby authorized to deviate from said standards in the following respects only: (if none, state "none")

4. Service Charges. Customer agrees to pay annual service charges to the Township in accordance with the Township's Rates, Rules and Regulations as the same may be amended from time to time. Customer acknowledges that it is aware that there are surcharges which may be imposed for exceeding any of the standards set forth in Section 7C of the Township's Rules and Regulations. **The customer agrees to bear any cost incurred by the Township for testing procedures to determine that the sewer flow is within the parameter limits established by the Township.**

5. Special Conditions. The following constitute the special conditions which shall be applicable to the customer's discharge into the Township's system: (if none, state "none")

(1)

(2)

(3)

6. Customer acknowledges that in the event it violates this agreement or the Township's Rules and Regulations, the Township may discontinue service to the customer, in addition to the other penalties provided in the Township's Rules and Regulations.

IN WITNESS WHEREOF, the parties have hereunto set their hands and affixed their seals the day and year first above written.

ATTEST: TOWNSHIP OF ALLAMUCHY

_____ By: _____

Secretary Chairman

ATTEST:

_____

(Owner)*

_____ By: _____

* Owner's signature is mandatory (see Section 8.2)

TOWNSHIP OF ALLAMUCHY

SANITARY SEWER CONNECTION PERMIT

Block _____ Lot _____

Address: _____

Date Paid: _____

Official Signature: _____ Seal

APPENDIX "B"

FEE, PENALTY AND CHARGES SCHEDULES

TOWNSHIP OF ALLAMUCHY

STANDARD APPLICATION FEE AND CHARGES SCHEDULE

Minimum deposits may be increased if the Township review exceeds these minimum requirements.

APPLICATION	FILING FEE	DEPOSIT FOR REVIEW*	DEPOSIT FOR INSPECTION
Form A Conceptual Review of Sewerage Facilities	$ 100	$50/connection unit. Min. deposit $1,000	None
Form A Renewal Authorization	$ 50	$50/connection unit. Min. deposit $1,000***	None
Form B Pumping Station Review	$ 100	$2,500/pumping station	None
Form C Construction Authorization	$ 200	$1.50/ft. of sewer plus $500/pumping station. Min. deposit $1,000***	5% of approved Construction cost. Min. deposit $1,000
Form C Renewal Authorization	$ 50	$1.00/ft. of sewer plus $500/pumping station. Min. deposit $1,000***	5% of approved construction cost. Min. deposit $1,000
Form D (per application) Performance Bond Reduction/Release	$ 100	$0.50/ft. of sewer plus $500/pumping station. Min. deposit $1,000, plus pumping station deposit if applicable. (Re-application deposit as required.)	5% of approved construction cost. Min. deposit $1,000 (re-application deposit as required.)
Special Review	None	Minimum deposit - $500	

TOWNSHIP OF ALLAMUCHY

STANDARD APPLICATION FEE AND CHARGES SCHEDULE

Minimum deposits may be increased if the Township review exceeds these minimum requirements.

APPLICATION	FILING FEE	DEPOSIT FOR REVIEW*	DEPOSIT FOR INSPECTION
Form E-1 For Connection of Residential Sanitary Sewer	$ 25*	None	Actual Cost**
Form E-2 For Connection of Commercial Sanitary Sewer	$ 50*	Actual Cost**	Actual Cost**
Form E-3 Industrial Sewer Connection Application and Industrial Waste Discharge Agreement (Fees additional to Forms A thru D)	$ 50	Actual Cost** Minimum Deposit - $500	Actual Cost**
Form E-4 Change of Use	None	None, (unless special review or analysis required)	Actual Cost**
Form E-5 Disconnection of Sewerage Facilities	None	None	Actual Cost**
Form F Initial Floor Drain Application	$ 25	Actual Cost** Min. $100 deposit for floor drain review, plus any special costs of review because of unusual wastes, industrial processes, or special circumstances.	Actual Cost**
Annual Review/Floor Drain Permit	$ 25		Actual Cost

Form G

Swimming Pool Drainage Application		Actual Cost** Minimum Deposit - $100	Actual Cost**
Swimming Pool Drainage Permit:			
10,000 - 20,000/gal.	$ 25*		
Over - 20,000/gal.	$100*		
Annual Renewal/Swimming Pool Drainage Permit:			
10,000 - 20,000/gal.	$ 25		
Over - 20,000/gal.	$ 100		

* (not including connection fees)

** (Actual Cost to the Township - Time, Equipment and Materials, if applicable).

*** May be adjusted if re-application is unchanged from initial application.

TOWNSHIP OF ALLAMUCHY

SEWER SERVICE CHARGES SCHEDULE

A. 1. Service Charges: The sewer bill will consist of the monthly service charge together with the gallonage charge. The monthly service charges shall be as follows, unless service is disconnected during a billing period, in which case, the service will be prorated.

Meter Size	Service Charge
5/8" X 3/4"*	$ 27.55*
1"	72.45
1.5"	144.89
2"	231.83
3"	434.68

The monthly service charge is based upon the size of the water meter used by the customer.

Gallonage Charge: There will be a gallonage charge of $4.12 per thousand gallons of sewer used, based upon the water meter reading.

Terms of Payment: All changes shall be billed monthly in arrears and will be due 15 days from the date sent.

2. All monthly service charges based upon water consumption shall be made and billed on the basis of user's water consumption readings obtained from the water department or company furnishing water to the respective units, but, in no event, shall any such charge be less than the minimum charge hereinabove set forth.

3. The aforesaid revised rate schedule for each year shall take effect on January 1st of the respective year.

Whenever any commercial or industrial establishment uses water in such manner that water used is not discharged into the sanitary sewer system of the Township of Allamuchy, the quantity of water so used and not discharged into the sanitary sewerage system shall be excluded in determining the sewer charges for said premises providing, however, that the quantity of water so used and not discharged into the sewerage system is measured by a device or meter approved by the Township and installed by the owner of the premises without cost to the Township. In lieu of the installation of a device or meter for measuring the quantity of water not discharged into the Township's sanitary sewerage system, the Owner of the premises may install, at his own cost and expense, a device or meter for measuring the quantity of sewerage discharged into the Township's sanitary sewer system.

TOWNSHIP OF ALLAMUCHY

SEWER SERVICE CHARGES SCHEDULE (CONTINUED)

B. Sewer Rental Charges to Multi-family Residential, Commercial or Industrial Establishments Without Separate Water Meters.

Whenever two or more establishments are served by a single water meter the Township may estimate the amount of water delivered to each establishment and may apply full or minimum charges to each establishment as enumerated above.

If the owner of the property does not agree to the Township's determination of the sewer charge as set forth above, he shall, at his sole cost and expense, install separate meters for each building or establishment on the premises.

C. Floor Drain Charges -

1. Floor Drains - 0.30 service units per 1,000 sq. ft. (or part) of building area tributary to floor drains.

2. Vehicle Bays - Additional 0.33 service units per bay where occasional car washing may be expected.

3. Additional 0.66 service units per bay where occasional truck washing (exterior or interior) may be expected.

D. Swimming Pool Drains -

1. For swimming pool sizes as follows:

2. For each 10,000 gallon pool capacity or portion thereof, 0.10 service units.

E. Check Processing Fee -

Whenever the Township is notified a deposited item has been returned to the customer and is uncollected for non-sufficient funds, the Township shall charge such customer a fee equal to the general Township check charge for processing the non-sufficient funds item(s).

F. Connection Fee -

The fee for the right to connect directly or indirectly to the Township's sewer system shall be $2,000 for each service unit.

TOWNSHIP OF ALLAMUCHY

SEWER SERVICE CHARGES SCHEDULE (CONTINUED)

G. Service Lateral Installation Fees -

An applicant will be charged for the installation of a service lateral whenever a physical connection is required to be made by the Township or their designated contractor. The charge for installation of service laterals shall be the actual cost incurred by the Township.

H. Waste Surcharges -

(Reserved)

I. System Reactivation Fee -

When a customer has received approval from the Township to completely discontinue sewer service to an establishment, the customer, from that point on, is no longer subject to the annual service charge. Should such a customer subsequently be granted approval by the Township to reactivate sewer service to such an establishment, the Township shall charge the customer a fee which it deems necessary to recover the Capital and Debt Service Costs it incurred for such customer during the entire period of discontinued service.

The fee per unit shall be based on annual rates. These rates will be computed for each year by the following formula.

1. Add the budgeted capital appropriations for a given year and the debt service for the same year (capital/debt service sum).

2. Divide the capital/debt service sum by the same year's total budget (capital/debt service ratio).

3. Multiply the capital/debt service ratio by the same year's annual service charge. This figure is the amount necessary to be recovered for that year from a reactivated customer as part of the system reactivation fee.